M.O.647

AIR MINISTRY
METEOROLOGICAL OFFICE

THE OBSERVATORIES' YEAR BOOK

1944

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

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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. Restrictions on supplies and printing since the war resulted in a regrettably 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 agreed that the General Introduction to the Meteorological Tables and the parts of the sectional Introductions which deal with site, instruments, procedure and tabulation included in the volume for 1938 should serve as standards of reference for several 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. The space devoted to the discussion of observations was reduced. Monthly tables of individual hourly values of meteorological elements were discontinued, 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 was also discontinued. No major changes were made in the atmospheric electrical and magnetic tables. The aerological and seismological tables were discontinued after 1939.

The present volume, 1944, presents atmospheric electrical and geomagnetic data for Lerwick Observatory; meteorological data for Aberdeen; meteorological, atmospheric electrical and geomagnetic data for Eskdalemuir; meteorological, atmospheric electrical and atmospheric pollution data for Kew.

Meteorological and geomagnetic data for Valentia Observatory are no longer included in the *Observatories' Year Book*, but are published by the Dublin Department of Industry and Commerce Meteorological Service.

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, Air Ministry, Victory House, Kingsway, London, W.C.2.

NOTES ON THE TABLES: Maximum and minimum values are shown in italics.

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ERRATA IN A PREVIOUS VOLUME

Observatories' Year Book, 1938.

PAGE 185, Table 213; *for* "Absolute drought": February 29—March 23; April 3—22 *read* "Absolute drought": March 2—24; April 4—23.

for "Dry spell": March 1—23; April 3—May 2; June 2—26 *read* "Dry spell" February 27—March 24; April 4—May 2; June 2—26.

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 tabulation are given in the *Observatories' Year Book* for 1938. Changes and additions only are mentioned here.

ATMOSPHERIC ELECTRICITY

No changes were made in 1944.

TERRESTRIAL MAGNETISM

The average day-to-day change of temperature in the magnetograph house for each of the 12 months of 1944 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
0·53	0·38	0·40	0·29	0·44	0·17	0·54	0·73	0·39	0·32	0·41	0·41	0·42

There were 35 occasions on which the change reached or exceeded 1°A.

As already stated in the 1938 Year Book, a Smith portable coil magnetometer, which had been reconstructed to operate as a Schuster-Smith coil magnetometer, was brought into use and adopted as the standard instrument in October 1939. The volume for 1938 contains a statement on the corrections, arising from instrumental changes and comparisons, to be applied to the values of H, D and V published for the years 1923 to 1938. Corresponding corrections have not been applied to the individual values in the four tables for each month given in this volume (1944) but are shown in the tables and repeated below. The values of the elements given in Table 58 and elsewhere in the volume have been corrected.

Corrections

H	−6γ throughout
D	−4·3′ throughout
V	varies from month to month as below

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
−3γ	−2γ	0γ	+2γ	+3γ	+4γ	+9γ	+7γ	+7γ	+5γ	+3γ	+2γ

NOTES ON THE RESULTS

The factor to change variations of D expressed in minutes to units of force (γ) perpendicular to the magnetic meridian is approximately 4·18.

Comparing the mean values for all days of 1944 with those for 1943 it is noted that H increased by 2γ; D(west) decreased by 8·5′ and V increased by 21γ. The ranges between the extreme values recorded during 1944 were H, 1999γ; D, 5°31·5′; and V, 1123γ.

At the assembly of the Association of Terrestrial Magnetism and Electricity at Washington, in September 1939, a new measure of magnetic disturbance the *K* index was agreed upon. Measurements of *K* are now given in this volume, replacing the former measure $(HR_H + VR_V)10^{-4}$, in accordance with the I.A.T.M.E. circular letter dated January 20, 1940.

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-hr. 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 V 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
Range in γ	0	10	20	40	80	140	240	400	660	1000

Table I has been slightly changed in form from previous years owing to the omission of $(HR_H + VR_V)10^{-4}$. *K* figures and their sums, have been given for each day in the main tables, but as it is considered that monthly means of *K* figures are not a good measure of activity they are not included. Tables II, III, IV and V follow the pattern of previous years.

TABLE I

	Magnetic character figures			Mean character figures	
	Number of				
	0 days	1 days	2 days	Lerwick	International
January	16	15	0	0·48	0·61
February	18	10	1	0·41	0·53
March	8	21	2	0·81	0·81
April	12	17	1	0·63	0·64
May	14	16	1	0·58	0·46
June	10	20	0	0·67	0·42
July	13	18	0	0·58	0·35
August	12	17	2	0·68	0·50
September	10	19	1	0·70	0·51
October	15	13	3	0·61	0·51
November	23	6	1	0·27	0·30
December	11	17	3	0·74	0·58
Year					
1944	162	189	15	0·60	0·52
1943	145	199	21	0·66	0·68
1942	146	194	25	0·67	0·64
1941	172	169	24	0·60	0·73
1940	178	162	26	0·59	0·72
1939	186	143	36	0·59	0·77
1938	180	133	52	0·65	0·76
1937	119	197	49	0·81	0·73
1936	133	206	27	0·71	0·65
1935	100	245	20	0·78	0·67
1934	168	173	24	0·61	0·56

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

TABLE II - ABSOLUTE DAILY RANGE AND MEAN MONTHLY VALUES

	Mean absolute daily range						Mean daily range expressed as percentage of yearly mean					
	1944			Mean 1932-42			1944			Mean 1932-42		
	H	D	V	H	D	V	H	D	V	H	D	V
	γ	γ	γ	γ	γ	γ	%	%	%	%	%	%
January	70	117	106	94	96	96	69	123	105	65	92	80
February	75	95	90	110	106	114	74	100	89	76	102	95
March	146	116	152	196	138	165	145	122	150	136	133	137
April	131	103	126	206	123	160	130	108	125	143	118	133
May	109	74	95	181	103	129	108	78	94	126	99	107
June	90	71	66	135	88	100	89	75	65	94	84	83
July	71	66	44	153	90	107	70	69	44	106	86	89
August	114	87	100	151	98	108	113	92	99	105	94	90
September	99	94	103	159	114	138	98	99	102	111	110	115
October	142	126	137	160	119	141	141	133	136	111	114	117
November	38	58	55	93	92	99	38	61	54	65	88	82
December	132	133	135	85	87	88	131	140	134	59	84	73
Winter	79	101	97	96	95	100	78	106	96	67	91	83
Equinox	129	110	129	180	124	151	128	116	128	125	119	126
Summer	96	75	76	155	95	111	95	79	75	108	91	92
Year	101	95	101	144	104	120	..	..	..	..	..	..

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

TABLE III - FREQUENCY DISTRIBUTION OF ABSOLUTE DAILY RANGE

Range	Number of cases, 1944			Percentage distribution					
				H		D		V	
	H	D	V	1944	1932-42	1944	1932-42	1944	1932-42
γ				%	%	%	%	%	%
0 - 9	0	0	1	0·0	0·0	0·0	0·0	0·3	0·5
10 - 19	13	4	35	3·6	1·8	1·1	0·5	9·6	8·2
20 - 29	32	14	43	8·7	5·2	3·8	2·6	11·8	12·2
30 - 39	25	9	46	6·8	7·4	2·5	4·8	12·6	9·9
40 - 49	39	42	32	10·7	7·7	11·5	8·6	8·7	7·4
50 - 59	44	52	32	12·0	10·3	14·2	11·3	8·7	6·0
60 - 69	54	49	14	14·8	10·2	13·4	13·9	3·8	5·2
70 - 79	31	43	14	8·5	9·7	11·7	9·8	3·8	4·8
80 - 89	26	30	10	7·1	7·8	8·2	9·2	2·7	3·8
90 - 99	17	19	15	4·6	5·6	5·2	6·5	4·1	3·3
100 - 109	7	16	10	1·9	4·1	4·4	4·8	2·7	3·6
110 - 119	10	13	12	2·7	2·9	3·6	3·6	3·3	2·7
120 - 129	10	12	7	2·7	2·6	3·3	3·4	1·9	2·5
130 - 139	9	8	14	2·5	1·7	2·2	3·3	3·8	2·2
140 - 149	6	11	7	1·6	2·1	3·0	3·0	1·9	2·2
150 - 159	4	4	11	1·1	1·3	1·1	1·6	3·0	1·9
160 - 169	3	6	6	0·8	1·5	1·6	1·5	1·6	1·8
170 - 179	3	5	7	0·8	1·0	1·4	1·4	1·9	1·1
180 - 189	2	6	5	0·5	0·9	1·6	1·2	1·4	1·5
190 - 199	1	2	1	0·3	1·0	0·5	0·9	0·3	1·5
200 +	30	21	44	8·2	15·2	5·7	8·0	12·0	17·8
Days omitted	0	0	0	..	..	..	..	..	..

TABLE IV - AVERAGE RANGE OF DIURNAL INEQUALITY 1932-42 WITH 1944 AS A PERCENTAGE OF THIS

		All days			International quiet days			International disturbed days		
		V	H	D	V	H	D	V	H	D
		γ	γ	′	γ	γ	′	γ	γ	′
Year	1932-42	47·5	46·7	9·04	9·3	36·5	8·30	118·9	117·1	13·55
	1944(%)	86	67	87	97	78	89	91	55	80
Winter	1932-42	38·0	23·4	7·60	7·3	14·7	4·32	110·2	79·3	12·83
	1944(%)	96	61	93	112	53	96	106	79	86
Equinox	1932-42	60·0	54·3	10·60	11·6	41·4	9·25	150·3	167·2	18·61
	1944(%)	93	68	89	90	79	84	94	52	73
Summer	1932-42	47·6	69·7	12·38	15·6	55·8	12·14	124·3	140·3	14·59
	1944(%)	67	71	93	96	80	90	66	46	86

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

TABLE V - RATIO OF RANGE OF INEQUALITY AT LERWICK TO THAT AT ESKDALEMUIR 1944

Type of day	Element	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
q	D	1·23	1·19	1·05	1·02	1·15	1·19	1·18	1·11	1·05	0·99	1·17	1·14
d	D	1·40	1·43	1·19	1·19	1·12	1·08	1·15	1·21	1·10	1·53	1·25	1·02
q	H	1·01	0·99	1·12	1·16	1·17	1·19	1·03	1·07	1·09	1·00	0·96	1·02
d	H	0·79	0·95	2·59	1·08	1·49	1·49	1·16	2·28	1·48	5·28	0·71	2·43
q	V	1·83	1·26	0·96	0·77	0·69	0·72	1·16	0·92	1·02	2·05	1·43	1·24
d	V	2·11	2·03	2·01	1·78	2·29	2·10	1·15	1·94	2·18	2·21	2·29	1·23

Magnetic disturbances.- Particulars of the principal magnetic disturbances recorded at Lerwick during the year are given in Table VI. In the Eskdalemuir Section will be found a similar list which deals with the same disturbances as recorded at that Observatory. Within the limit of accuracy of measurement and registration "sudden commencements" appear to occur simultaneously at the two Observatories.

TABLE VI - PRINCIPAL MAGNETIC DISTURBANCES RECORDED AT LERWICK, 1944

No.	From	To	Horizontal force					Declination					Vertical force				
			Max.	Time	Min.	Time	Range	Max.	Time	Min.	Time	Range	Max.	Time	Min.	Time	Range
	d. h. m.	d. h.	γ	d. h. m.	γ	d. h. m.	γ	′	d. h. m.	′	d. h. m.	′	γ	d. h. m.	γ	d. h. m.	γ
1	Jan. 10 19	Jan. 19 5	450	10 22 42	281	15 21 15	169	52·1	19 3 0	-15·5	11 17 40	67·6	1114	14 17 24	794	10 23 19	320
2	Feb. 7 6	Feb. 9 0	475	8 21 11	156	8 0 53	319	61·2	7 13 15	-7·0	7 20 45	68·2	1107	7 15 48	701	8 0 46	406
3	Feb. 13 5	Feb. 16 2	450	13 23 21	103	14 5 45	347	75·7	14 6 0	9·4	13 23 20	66·3	999	14 13 15	656	14 6 10	343
4*	Mar. 4 2 42	Mar. 11 2	451	6 19 18	247	7 2 36	204	54·9	4 10 5	7·2	8 18 59	47·7	1069	7 16 5	813	7 2 47 9 1 58	256
5	Mar. 11 2	Mar. 14 21	444	12 21 52	310	13 2 31	134	48·6	13 2 19	16·1	12 19 23 14 15 6	32·5	1032	12 15 36	826	13 2 43	206
6*	Mar. 18 6 55	Mar. 20 4	430	18 20 6	-253	19 2 9	683	46·3	19 14 7	-8·3	19 1 49	54·6	1025	18 20 39	555	19 2 38	470
7	Mar. 25 18	Mar. 31 5	438	30 22 45	-366	27 1 4	804	65·0	27 0 51	-2·9	29 3 55	67·9	1000	27 10 34	499	27 1 3	501
8	Apr. 1 11	Apr. 3 10	564	2 18 45	-102	2 8 16	666	77·6	2 7 58	4·0	2 2 45	73·6	1090	2 10 12	706	2 2 4	384
9	Apr. 4 5	Apr. 8 5	465	6 17 36	169	7 21 2	296	54·1	7 2 15	9·8	6 17 34	44·3	1033	7 19 3	736	7 20 58	297
10	Apr. 15 13	Apr. 17 5	561	16 17 0	145	15 21 30	416	66·1	16 2 35	5·8	16 17 12	60·3	1035	16 16 57	706	16 2 54	329
11	May 1 11	May 3 1	827	1 14 42	221	1 23 57	606	62·7	1 16 3	18·8	1 22 34	43·9	1197	1 16 4	766	1 23 26	431
12	May 4 10	May 8 12	800	6 18 22	304	7 7 23	496	50·7	6 0 50	2·8	4 20 59	47·9	1051	4 18 49	803	5 1 53	248
13	May 29 24	May 30 21	483	29 17 3	103	29 23 41	380	46·0	29 23 27	16·4	29 23 1	29·6	1021	29 16 51	702	29 24 0	319
14	June 21 22	June 24 5	495	22 15 28	304	23 7 25	191	45·9	22 15 26	17·8	22 0 30	28·1	1042	22 16 8	820	22 4 44	222
15	Aug. 2 2	Aug. 4 4	463	2 18 56	-402	3 2 23	865	55·1	3 3 23	-24·4	3 2 35	79·5	970	3 13 17	329	3 2 34	641
16	Sept. 30 10	Oct. 1 3	545	30 19 31	293	30 20 23	252	54·7	30 14 55	-15·5	30 19 44	70·2	1135	30 15 25	768	30 24 0	367
17	Oct. 10 15	Oct. 11 24	672	11 16 24	-22	11 3 0	694	64·8	11 15 40	1·2	11 1 35	63·6	1156	11 16 46	622	11 3 4	534
18	Oct. 14 6	Oct. 15 8	411	14 16 9	-595	14 23 23	1006	62·4	15 0 40	-99·3	14 23 17	161·7	1120	14 23 23	444	15 0 10	676
19	Oct. 23 12	Oct. 24 6	461	23 17 56	215	23 22 24	246	54·8	23 22 22	2·2	23 22 2	52·6	1095	23 17 57	773	27 22 21	322
20*	Dec. 15 18 53	Dec. 18 24	1404	16 16 43	163	17 22 11	1241	232·2	16 16 31	-81·5	16 16 38	313·7	1201	17 14 59	102	16 16 29	1099
21*	Dec. 26 10 23	Dec. 28 4	847	27 16 17	62	27 23 28	785	59·7	27 15 36	-7·9	27 23 40	67·6	1225	27 16 58	681	27 23 47	544

Where the beginning of a disturbance has been marked by a "sudden commencement" the serial number is followed by an asterisk(*), and the time entered in the second column is that of the sudden commencement estimated to the nearest minute. In other cases, the exact hour nearest the time at which disturbance may be regarded as having begun is entered in the second column. To the tabulated values of maximum and minimum the following have to be added:— H, 14000γ; D, 11°; V, 46000γ.

REMARKS ON THE AUTOGRAPHIC RECORDS, 1944

The Lerwick mean character figure for the month is shown in brackets after the name of the month.

JANUARY (0·48).- Following the calm spell noted at the end of December 1943, January opened with moderately disturbed conditions. Activity had, however, died away by 2d. and conditions remained quiet or only mildly disturbed until 10d. when disturbance suddenly increased at 22h. Subsequent activity continued at a high level although hardly reaching storm proportions and 11d. and 14d. were the most disturbed days of the month.

Quieter conditions became apparent on 20d. and by 21d. only mild disturbance remained. Quiet or mildly disturbed conditions then prevailed to the end of the month with the exception of the evening of 26d. when sharp activity was apparent for about four hours.

FEBRUARY (0·41).- The month opened quietly with only very mild disturbance until 7d. when serrations became marked and activity rapidly increased to a high level. The activity decreased a little on 8d. but moderately disturbed conditions with periods of marked serrations continued and culminated in the largest disturbance of the month, a minor storm on 14d. The storm broadly took the form of a double bay on H and V and a double peak on D, the second being more marked. Minima of 14103γ and 46656γ occurred in H and V

respectively with a maximum of 12° 15·7′ in D. Activity subsequently gradually decreased; only mild disturbance remained by 16d. and 18d. and 19d. were quiet. Further moderate disturbance developed quickly on 20d. but subsided early on 21d. Only mild disturbance was recorded during the remainder of the month in which the "sudden commencements" of minor activity at 22h.10m. ± 3 min. on 23d., 24d., 25d. and 26d. was the most noteworthy feature.

MARCH (0·81).- Except for an hour's disturbance on the evening of 2d. conditions were quiet until 4d. when a period of moderate disturbance commenced and continued to 13d. Activity then became progressively less and by 17d. quiet conditions prevailed until a "sudden commencement" H (−8γ +13γ), D (−2·3′ +4·2′), V (−2γ +5γ) occurred at 18d.7h.1m. This "sudden commencement" was followed by a steady increase in serration which broke into an active storm just before midnight. H and V both reached small peaks just before 21h. and then fell intermittently to four deep bays which persisted until 19d.4h. and 19d.5h. respectively. Both elements recorded three minima 14106γ, 14141γ and 13747γ in H and 46640γ, 46623γ and 46555γ in V. Absolute minima occurred at 19d.2h.9m. and 19d.2h.38m. for H and V respectively. D executed several oscillations of smaller amplitude superposed on a shallow bay commencing about 18d.20h. and ending about 19d.5h., the greatest of these oscillations being a rise of some 52′ in 11 minutes from the minimum of 10° 51·7′ at 19d.1h.49m. Activity quickly decreased after 19d.6h. and by evening only mild disturbance remained. Activity again increased on 25d. however, when serrations became prominent and a further storm broke sharply shortly before midnight on 26d. This storm was characterised by two deep double bays in both H and V, with minima of 13634γ and 14173γ at 27d.1h.4m. and 27d.4h.9m. in the case of H and 46499γ and 46622γ at 27d.1h.4m. and 27d.4h.47m. in the case of V. D after an initial shallow bay rose to a peak of 12° 5·0′ at 27d.0h.51m. and then fell to form a small double bay with minima of 11° 10·9′ and 10° 57·1′ at 27d.1h.43m. and 27d.3h.55m. before rising again in another small peak about 27d.4h.42m., which subsequently fell away irregularly with marked serrations. By 6h. all elements were returning to normal values, although serrations remained marked until the evening of 27d. and activity remained on a moderate level to the end of the month.

APRIL (0·63).- Disturbance increased steadily on 1d. and developed into a major storm on the morning of 2d. when between 7h. and 11h. H formed a double bay with minima of 13898γ and 13997γ at 8h.16m. and 9h.37m. respectively D formed a maximum of 12° 17·6′ at 7h.58m. and a minimum of 11° 16·8′ at 9h.30m. while V formed a shallow bay with a minimum of 46794γ at 8h.10m. followed by a peak to 47090γ at 10h.12m. H subsequently formed a noticeable peak of 14564γ at 18h.45m. and conditions remained highly disturbed until late in the morning of 3d. Some decrease of activity then took place but moderately disturbed conditions prevailed until a sudden sharp increase of activity was recorded at 7d.20h.35m. by all elements. This activity lasted for a little more than half an hour before relapsing into moderate disturbance once again which remained to 12d. Quiet conditions then prevailed to 15d. when activity intensified in two steps, the first at 13h.23m. and the second at 21h.23m. Troughs in H and V with peaks in D occurred between 21h. and 22h. and about 16d.3h. but the ranges were not large and the disturbance moderated about 16d.18h. Quiet or only mildly disturbed conditions were then restored. These conditions remained until 24d.1h.14m. when a "sudden commencement" of moderate activity was recorded and activity continued on this level to the end of the month.

MAY (0·58).- Moderately disturbed conditions continuing from April culminated in a minor storm on 1d. The activity took the form of humps on H and V with irregular oscillations in D. H and V reached maxima of 14827γ and 47197γ respectively while the range of D was 43·9′. Activity returned to a moderate level by the morning of 2d. and this disturbance in turn gave way to quiet conditions on 8d. Quiet or only mildly disturbed conditions then continued to 23d. when activity increased slightly, and remained on this level to the end of the month, with the exception of 29d. when noticeably enlarged troughs on H and V were formed shortly before midnight.

JUNE (0·67).- Quiet or only mildly disturbed conditions prevailed throughout the month with the exception of three periods of moderate disturbance from 14d. to 17d., 20d. to 23d. and 26d. to 29d. inclusive.

JULY (0·58).- Quiet or only mildly disturbed conditions prevailed throughout the month.

AUGUST (0·68).- The mildly disturbed conditions recorded throughout July continued on 1d. Serrations became marked on 2d. however, and conditions progressively became more disturbed until about 21h. when activity greatly increased and a storm broke. H and V quickly formed minor bays but largely recovered their normal values by 22h. H then formed a deep trough to 13729γ at 2d.0h.14m., almost recovered its normal value by 2h. and then fell sharply away into a deep double trough with minima of 13598γ and 13527γ at 2h.23m. and 2h.40m. respectively before gradually recovering. Following the first minor bay V formed a large irregular bay with a minimum of 46329γ at 2h.34m.; D meanwhile executed several oscillations reaching a minimum of 10° 35·6′ at 2h.35m. and a maximum of 11° 55·1′ at 3h.23m. By noon on 3d. all elements had recovered their normal values but activity continued on a moderate scale throughout the day before giving way to only mild disturbance on 4d. The level of disturbance rose slightly on 5d. again and moderate or mild disturbance prevailed throught the remainder of the month.

SEPTEMBER (0·70).- The moderate disturbance recorded in August continued in the early days of September but conditions became considerably quieter on 5d. Activity increased again with a "sudden commencement" at 6d.11h.39m. followed by small serrations which were particularly marked around noon of 7d. although conditions were otherwise only slightly disturbed. Activity again increased slightly on 11d. and persisted on this higher level until 15d. when conditions became almost quiet. Mild disturbance reappeared on 16d. and continued to 20d. when enlarged night bays were formed. Further enlarged night bays were formed on 22d. and 23d. and to a lesser extent on 25d. and 26d.; activity throughout this period was on a moderate scale. Only mild disturbance was recorded on 28d. and 29d. but the month closed with a minor storm on 30d. when small peaks in H and V and small troughs in D were formed about 15h.30m. and again about 19h.30m. Maximum ranges recorded were 252γ, 70·2′ and 367γ in H, D and V respectively and the month closed with V commencing a small trough which reached its minimum of 46758γ at 0h.3m. on 1st October.

OCTOBER (0·61).- Following the minor storm at the close of September all elements quickly recovered their normal values although activity continued on a moderate level until 4d. before decreasing considerably. 5d. was almost quiet but renewed moderate activity became evident on 6d. and died away again during 7d. and 8d. 9d. was quiet. A minor storm began at 10d.19h. when H and V both formed large irregular bays with a trough to 13978γ at 11d.3h.0m. in H and one to 46622γ at 11d.3h.4m. in V. D was much less disturbed. All traces returned to normal by 7h. but peaks were formed on all three elements about 16h., that of H reaching a maximum of 14672γ. Activity thereafter decreased somewhat but remained on a moderate level until 14d. when another storm began about 21h. The storm broadly took the form of large deep bays in all elements upon which very violent and rapid fluctuations were superposed. V was first to reach a minimum, 46554γ at 14d.23h.9m. closely followed by D to 9° 20·7′ at 23h.17m. and by H to 13405γ six minutes later, by which time V had risen to a peak of 47120γ. D rose steadily from its first minimum to 23h.30m. when it commenced a series of oscillations. These became violent about five minutes later and culminated in a rise of 1° 34′. H formed a peak to 14047γ three minutes later. This was followed by troughs formed on all elements V reaching 46444γ at 15d.0h.10m., H 13580γ at 0h.19m. and D 9° 46·4′ a minute later. V then rose to a subsiding maximum of 46941γ at 0h.20m. while D rose to 12° 2·4′ at 0h.40m., its maximum for the storm. All elements subsequently returned irregularly to normal values by 6h.

Moderate disturbance remained and there were enlarged night bays on 15d. but activity decreased on 18d. and except for small irregularities on 20d. conditions to 23d. were quiet or only mildly disturbed. Considerable disturbance then returned and became quite

active between 22h. and 23h. on 23d. but quickly subsided. Moderate disturbance prevailed throughout the remainder of the month.

NOVEMBER (0·27).- The month opened with almost quiet conditions but disturbance increased from 3d. There was a prominent small peak on V at 4d.16h.20m. and activity was marked on 5d., the most disturbed day of the month. Variations were slow, however, and hardly reached storm proportions. The greatest range 264γ was recorded on V.

Small bays in D about 9d.20h. and 10d.17h. and a small hump in V again about 10d.17h. were prominent in otherwise only mild disturbance recorded from 6d. to 20d. 12d., 13d. and 17d. were quiet. The level of activity on 20d. increased considerably but again hardly reached storm proportions. V was again the most disturbed element and formed a large hump to 47172γ at 17h.17m. Almost quiet conditions were restored by 21d. and continued to 30d. with the exception of about two hours of moderate disturbance early on 26d.

DECEMBER (0·74).- The month opened with moderate disturbance and a trough on D reached 10° 48·7′ at 2d.19h.48m., a peak of much smaller range formed on H and quiet or only mildly disturbed conditions prevailed to 13d. Moderate activity then developed but died away again by the evening of 14d.

The calm was soon broken however by a small "sudden commencement" at 15d.18h.54m. followed by a second and more vigorous "sudden commencement" H (+26γ −39γ), D (−2·2′ +4·7′), V (+11γ −22γ) at 16d.6h.50m. Traces then remained highly serrated until 13h. when activity quickly increased and a heavy storm broke. H and V rose to peaks of 14726γ at 14h.3m. and 47172γ at 13h.57m. respectively while D fell to a trough of 10° 42·7′ at 14h.10m. H and V then fell into irregular troughs while D carried out oscillatory movements superposed an a small peak. H reached its lowest value for the storm, 14164γ at 15h.1m. and thereafter rose erratically to 14872γ at 16h.35m. when it fell sharply to 14461γ at 16h.37m. before rising to a maximum of 15404γ at 16h.43m. and subsequently falling irregularly through subsidiary maxima to normal values. V recorded three minima in its irregular general trough, 46243γ, 46103γ and 46276γ at 15h.54m., 16h.29m. and 16h.44m. respectively and rose to subsidiary maxima of 46849γ and 46875γ between them. A violent oscillation occurred on D shortly before 16h. but an even greater one began at 16h.27m. when D was 11° 29·7′. In 4 minutes the value rose by 4° 21·5′ to a maximum before falling to 9° 38·5′ in the next 7 minutes and recovering to 12° 10·1′ within the next 2 minutes. The major activity of the storm was over by 16h.21m.

Vigorous activity returned about 17d.4h. when prominent troughs on H and V and a simultaneous peak on D were formed, and a minor storm quickly developed. This was characterised by marked serrations and sharp fluctuations, the most prominent of these being a drop from 47123γ to a minimum of 46668γ at 17h.2m. in 5 minutes, followed by a recovery to 47147γ in the next 3 minutes in V, accompanied by a similar variation in H 240γ deep to a minimum of 14163γ and a needle like peak 1° 10′ high to a maximum of 12° 44·2′ in D. The major activity had ceased by 18d. although prominent serrations and minor activity continued most of the day, and mild activity persisted to 24d.

The 24d. and 25d. were quiet but a "sudden commencement" at 26d.10h.21m. brought a return of mild activity which culminated in a minor storm after noon on 27d. H rose irregularly to a peak of 14847γ at 16h.17m. while V rose to a double peak of 47215γ and 47225γ separated by a trough to 47027γ at 15h.20m., 16h.58m. and 16h.21m. respectively. D meanwhile carried out irregular oscillations of about 50′ range. All elements subsequently moved irregularly into troughs to 14062γ at 23h.28m. in H, 10° 52·1′ at 23h.40m. in D and 46681γ at 23h.47m. in V. By 28d.3h. the traces were only mildly disturbed. Moderate disturbance returned on 29d. and remained to 30d. The 31d. was almost quiet.

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

1 LERWICK 1944

	JANUARY, factor 1·16				FEBRUARY, factor 1·22				MARCH, factor 1·28			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	volts per metre											
1	–	–	42	60	69	–384	156	128	139	258	287	216
2	39	<–120	199	141	53	228	–318	331	685	120	116	262
3	>265	21	>795	190	66	69	63	257	55	165	198	201
4	111	120	123	160	144	3	75	66	107	100	139	81
5	127	–115	–57	–9	34	69	53	72	179	29	–	101
6	112	>305	–85	314	41	–374	232	–226	156	97	224	137
7	Z±	48	79	106	–3	–182	69	60	49	120	107	159
8	67	121	170	–	41	107	101	38	170	287	388	424
9	348	–	Z±	330	224	35	277	214	231	225	284	117
10	626	128	225	85	88	91	120	132	65	82	95	118
11	52	264	140	82	95	88	111	114	366	62	111	69
12	–58	164	–33	398	73	73	107	177	–6	46	–235	92
13	278	281	–34	55	92	–28	–28	–856	131	95	105	200
14	–27	43	–	116	–374	92	159	73	98	92	148	102
15	43	64	–	–	70	108	63	95	89	121	–125	200
16	98	294	98	122	–184	–	124	127	89	115	102	72
17	73	61	236	132	95	140	124	165	69	86	151	174
18	111	101	270	111	60	130	111	121	56	181	–1191	–1379
19	61	98	160	181	105	64	–124	128	241	323	333	115
20	89	150	264	–267	67	93	156	163	73	145	162	142
21	65	89	154	–188	134	163	191	137	96	122	188	–
22	–447	65	89	105	106	122	138	147	–	–	113	–146
23	56	281	284	11	118	102	189	170	139	195	113	202
24	27	74	108	99	119	144	199	189	50	83	165	122
25	–56	105	192	121	90	218	132	141	123	621	–	–
26	105	90	112	109	142	93	216	190	37	143	229	206
27	149	124	378	459	241	390	222	209	80	149	186	153
28	239	–3	152	152	109	142	196	19	–107	133	147	157
29	112	106	143	215	181	152	142	178	170	130	223	233
30	72	128	190	65					103	97	167	253
31	22	72	146	22					97	133	–	153
(a)	134	131	198	152	102	121	143	142	141	152	179	165
(b)	87	122	152	101	81	70	112	94	128	140	101	109
Mean	(a) 154		(b) 115		(a) 127		(b) 89		(a) 159		(b) 119	

	APRIL, factor 1·32				MAY, factor 1·32				JUNE, factor 1·28			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	volts per metre											
1	87	147	137	534	–34	101	104	–249	73	123	113	163
2	197	174	87	137	228	239	165	–195	103	113	63	120
3	104	100	114	147	137	509	141	141	97	–89	147	137
4	–472	–114	121	131	137	144	147	127	–230	–290	293	–583
5	77	144	127	111	90	124	134	141	30	213	130	220
6	80	–97	174	151	70	144	90	94	133	193	170	206
7	167	255	261	228	70	117	188	235	107	206	20	143
8	312	114	286	232	230	331	367	–73	100	83	87	80
9	302	282	323	91	73	190	237	150	137	107	73	157
10	–111	71	104	165	157	147	234	210	83	147	90	107
11	142	233	98	125	154	97	87	50	57	77	–97	97
12	179	98	111	142	127	114	140	–104	110	97	53	150
13	111	185	206	313	–296	67	107	130	–	87	–	173
14	165	138	266	27	83	97	150	113	272	199	129	110
15	131	135	233	253	77	97	107	110	103	110	136	189
16	101	216	186	166	57	–7	50	70	–594	–196	169	163
17	88	118	–446	37	13	47	130	140	123	129	129	106
18	64	47	–206	135	77	120	147	160	289	392	266	136
19	301	–281	233	426	133	170	–	120	367	265	199	212
20	155	145	47	67	80	103	123	127	63	103	86	142
21	37	–54	–598	233	43	83	93	90	103	132	83	96
22	–78	105	149	149	77	73	93	107	43	69	149	115
23	152	41	34	183	70	103	–	120	99	79	116	102
24	108	–34	88	51	–336	–30	–283	13	228	261	109	142
25	30	71	78	78	–167	–	10	163	46	135	174	243
26	61	71	81	148	113	140	326	170	276	171	174	224
27	27	67	84	108	123	130	173	173	43	–13	194	–623
28	81	88	91	94	63	147	240	273	499	292	–410	207
29	0	77	141	128	–313	293	183	243	157	229	222	284
30	208	131	242	155	153	236	137	160	160	245	213	199
31					167	127	170	137				
(a)	128	130	152	165	108	153	153	140	144	164	140	158
(b)	94	89	95	165	58	142	142	102	106	124	113	105
Mean	(a) 144		(b) 111		(a) 139		(b) 111		(a) 151		(b) 112	

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.

1 LERWICK 1944

	JULY, factor 1·20				AUGUST, factor 1·22				SEPTEMBER, factor 1·29			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	volts per metre											
1	55	36	117	134	97	107	139	139	–	146	88	143
2	108	186	209	170	113	126	142	123	82	130	102	140
3	36	319	273	425	120	158	155	233	119	65	24	147
4	127	276	81	702	233	152	162	253	99	150	–34	164
5	249	476	356	330	136	295	–	–	65	137	113	106
6	269	395	259	586	366	198	100	282	107	114	114	203
7	216	749	623	371	334	330	424	703	–34	131	172	134
8	–226	549	646	775	137	201	257	393	100	41	35	131
9	357	151	193	167	237	172	289	143	52	107	138	138
10	293	–241	264	203	114	137	130	224	114	104	107	114
11	280	129	81	122	140	160	114	29	97	108	132	173
12	48	119	77	151	–	137	130	166	139	167	–	202
13	64	122	87	148	105	101	88	69	177	153	174	191
14	87	122	58	238	75	98	118	154	98	185	119	136
15	177	112	180	327	–262	62	98	377	133	266	196	455
16	167	305	221	205	141	220	236	276	242	344	702	–
17	186	526	167	167	109	224	290	355	–	–	–	211
18	138	221	186	196	171	263	148	69	77	154	–	560
19	141	196	177	122	10	89	135	142	524	392	400	364
20	103	112	132	128	70	106	106	99	92	–120	216	168
21	87	93	103	155	50	109	103	56	52	152	252	332
22	103	113	119	135	56	173	222	179	124	164	196	252
23	116	145	148	190	70	87	100	170	–40	164	100	76
24	109	184	203	158	364	331	498	347	8	80	120	140
25	52	93	–	–	265	265	147	144	52	88	32	332
26	64	–58	84	32	134	144	241	144	–4	–	420	116
27	103	325	419	196	460	–37	141	114	104	112	96	60
28	–	770	–	280	61	145	115	128	48	104	–4	164
29	145	423	268	110	74	112	179	284	140	112	100	88
30	191	359	200	139	382	541	548	176	52	84	92	108
31	110	113	94	126	305	349	–	–				
(a)	144	266	208	240	170	186	192	206	116	146	170	191
(b)	135	226	208	238	151	171	194	207	99	126	125	180
Mean	(a) 215		(b) 202		(a) 189		(b) 181		(a) 156		(b) 133	

	OCTOBER, factor 1·28				NOVEMBER, factor 1·29				DECEMBER, factor 1·33			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	volts per metre											
1	72	80	80	–28	64	64	81	194	120	103	–108	112
2	36	100	–176	201	85	130	53	57	–17	149	183	220
3	52	140	241	180	101	109	121	154	141	245	137	–25
4	48	120	132	84	239	117	134	0	–38	–292	–25	363
5	152	249	180	233	231	203	551	429	71	104	125	225
6	108	112	249	237	150	146	Z–	158	113	21	–167	–309
7	108	124	68	132	–	146	154	138	712	838	184	243
8	36	109	117	197	93	32	873	146	487	294	168	–168
9	44	117	109	269	199	191	81	146	105	126	164	67
10	145	181	225	137	114	85	126	154	135	25	257	–
11	117	297	410	193	81	138	296	378	101	346	–422	68
12	197	153	84	153	110	330	130	130	156	–42	241	169
13	137	153	–	181	49	358	102	90	118	237	207	131
14	173	–383	–318	4	151	183	252	90	102	131	136	102
15	109	32	226	197	–651	110	130	138	81	98	123	76
16	117	Z–	246	189	90	118	151	363	55	47	47	–8
17	113	177	141	–189	110	73	–	126	25	81	–	–
18	48	–64	129	193	–41	261	159	192	–199	123	534	271
19	–153	97	141	145	118	159	69	114	369	178	271	263
20	177	109	85	201	70	–205	119	143	114	406	80	389
21	166	315	133	166	98	151	–	384	152	93	118	131
22	194	242	331	271	110	–25	–102	–37	–540	131	203	156
23	–8	–307	–	158	168	94	102	102	114	114	206	160
24	85	170	137	170	61	168	168	209	113	134	76	122
25	–	125	117	242	135	254	172	111	71	–235	38	84
26	222	24	137	–606	95	119	173	177	63	251	84	–80
27	73	141	154	218	103	132	123	86	17	155	201	305
28	198	323	218	–73	–8	78	99	62	79	154	229	125
29	81	113	81	190	99	99	272	214	87	75	291	121
30	174	190	141	117	–	–165	215	132	87	121	150	175
31	28	8	137	121					46	104	174	137
(a)	115	148	165	177	117	150	189	166	142	174	178	176
(b)	104	121	133	115	75	132	177	154	99	145	126	125
Mean	(a) 151		(b) 118		(a) 155		(b) 135		(a) 167		(b) 124	

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)	130	160	172	173	
(b)	101	134	140	141	
	(a) 159		(b) 129		

POTENTIAL GRADIENT (reduced to level surface): DIURNAL INEQUALITIES

The departures from the mean of the day are adjusted for non-cyclic change†

2 LERWICK 1944

	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																										v./m.
	0a days only*																										
Jan.																											
Feb.	-31	-35	-27	-34	-35	-34	-28	-7	-8	-12	-9	+7	+13	+11	+24	+39	+48	+33	+26	+8	+31	+31	+5	-17	+6	7	121
Mar.	-70	-67	-65	-71	-43	-64	-63	+39	+5	-1	-1	+14	+25	-1	+25	+37	+70	+33	+131	+73	+45	+21	-9	-63	+95	2	212
Apr.	-22	-37	-22	-1	+1	-34	-47	-25	-30	-9	-1	-25	-17	+34	+3	-6	-5	-18	+11	+43	+113	+91	+35	-33	+6	4	171
May	-7	-18	-18	-25	-28	-31	-14	-1	+10	-11	-11	-14	-11	-1	+17	+41	+12	+6	+12	+15	+20	+31	+15	+10	+33	9	124
June	-8	-15	-20	-29	-15	+12	+4	+20	0	+12	-11	-16	-2	-12	-8	+5	+17	+26	+20	+10	+11	+11	-1	-11	-8	7	133
July	-41	-53	-67	-47	-19	+49	+61	+62	+49	+20	+4	-28	+2	-11	-4	+23	+5	0	+13	+11	+14	+2	-16	-30	-49	15	212
Aug.	+4	-4	-4	-7	-3	+26	+42	+32	+11	-10	-28	-37	-36	-10	+19	-17	-17	-19	-16	-4	+22	+39	+10	+9	+56	15	174
Sept.	-51	-61	-49	-16	-63	-76	-50	-30	-11	+5	-11	-5	+7	+29	+27	+13	-4	+30	+63	+74	+72	+67	+20	+19	-121	5	188
Oct.	-42	-24	-42	-30	-24	-5	+4	+27	+29	-18	-43	-36	-28	-4	+36	+34	+50	+33	+36	+25	+25	+17	-7	-13	-15	5	189
Nov.	0	-33	-54	-23	-35	-40	-18	+3	+12	0	+20	+6	-2	-19	-1	+11	+35	+8	+17	+13	+36	+32	+34	1	+13	5	147
Dec.	-35	-30	-42	-27	-33	-47	-29	-9	+21	+35	+34	+26	+50	+89	+55	+22	-9	-21	-1	+9	-3	+13	-33	-33	-13	2	153
Year	-28	-34	-37	-28	-27	-22	-13	+10	+8	+1	-5	-10	0	+10	+18	+18	+18	+10	+28	+25	+35	+32	+5	-15	0	76	166
Winter	-22	-33	-41	-28	-34	-40	-25	-4	+8	+8	+15	+13	+20	+27	+26	+24	+25	+7	+14	+10	+21	+25	+2	-16	+2	14	140
Equinox	-46	-47	-45	-29	-32	-45	-39	+3	-2	-6	-14	-13	-3	+15	+23	+19	+28	+19	+60	+54	+64	+49	+10	-23	-9	16	190
Summer	-13	-23	-27	-27	-16	+14	+23	+28	+17	+3	-11	-24	-12	-9	+6	+13	+4	+3	+7	+8	+17	+21	+2	-5	+8	46	161
	1a and 2a days only*																										
Jan.	-6	-7	-11	-32	-27	-27	+9	-25	-25	+38	+1	-37	-36	-50	+75	+55	+26	+3	+5	+1	+53	+48	-13	-16	+21	2	112
Feb.	-15	-27	-17	-3	-13	-18	-9	-9	-13	-15	-4	-9	-5	-10	+8	+24	+17	+20	+21	+19	+15	+15	+21	+6	-3	2	117
Mar.	-13	-51	-31	-47	-40	+3	-80	-14	+5	-62	-41	-5	-7	+2	+9	+60	+73	+82	+61	+46	+32	-12	+13	+17	0	3	115
Apr.	+1	+3	+5	+10	+39	+32	+41	+12	-11	-8	+13	-8	-2	-2	-31	+4	+13	+18	-3	-23	-29	-12	-31	-31	+39	9	136
May	-5	-24	-15	-12	+6	+1	-4	+11	-6	-3	0	-4	-4	+14	+31	+32	+32	+34	+39	0	-17	-29	-63	-15	-27	5	96
June	-5	+7	-17	+17	+19	+24	0	+32	+27	+1	+1	-18	-6	0	-20	-40	-28	-6	+6	+11	+17	+9	-11	-19	+35	6	126
July	-16	-13	-47	-30	-61	-36	-25	-20	+7	+35	+30	+47	-40	+1	+25	+4	-3	+18	+26	+78	+35	+3	-8	-9	-38	7	145
Aug.	+18	-121	-32	-62	-40	-14	-19	-60	+9	+33	+17	+13	+32	+1	+39	+58	+19	+58	-5	+6	+8	+15	-9	+36	-58	3	226
Sept.	+13	+3	-3	-8	-17	-1	+3	+29	+23	+38	+33	+18	+3	-10	-17	-30	-68	-17	-30	+5	+22	-29	+9	+32	+100	6	135
Oct.	-32	-19	-15	-25	-36	-48	-11	+9	+11	+17	+9	+10	+15	+18	+11	+19	+21	+20	+10	-9	+12	+5	+3	+6	+61	9	118
Nov.	+20	+41	+11	-37	-53	-15	-3	-25	-35	-4	-17	-11	+11	-23	-7	+21	+3	+26	+31	+52	+12	+10	+2	-8	-18	2	123
Dec.	-2	-42	-37	-37	-36	-31	-17	-11	+5	-16	+4	-2	+31	+27	+31	+31	+45	+23	+23	+9	+1	+26	-4	-18	-28	5	105
Year	-3	-21	-17	-22	-22	-11	-10	-6	0	+5	+4	-1	-1	-3	+13	+20	+13	+23	+15	+16	+13	+4	-8	-2	+7	59	129
Winter	-1	-9	-13	-27	-32	-23	-5	-17	-17	+1	-4	-15	0	-14	+27	+33	+23	+18	+20	+20	+20	+25	+1	-9	-7	11	114
Equinox	-8	-16	-11	-17	-13	-3	-12	+9	+7	-4	+3	+4	+2	+2	-7	+13	+10	+26	+9	+5	+9	-12	-1	+6	+50	27	126
Summer	-2	-38	-28	-22	-19	-6	-12	-9	+9	+17	+12	+9	-5	+4	+19	+13	+5	+26	+17	+24	+11	-1	-23	-2	-22	21	148

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.*

3 LERWICK 1944

	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	(2a)	–	2b	3·7	1c	1·8	0a	···	2b	6·9	1a	0·7
2	2c	3·7	2b	3·1	1c	1·4	1b	1·5	2b	3·9	1a	0·1
3	1c	1·8	1c	2·4	1c	1·6	1b	0·7	1c	1·1	2b	4·2
4	1b	0·1	1b	1·5	1b	0·1	2b	6·8	0b	···	2c	6·6
5	2b	10·9	0a	···	(1a)	–	1a	0·1	1b	0·2	1b	2·5
6	2c	3·2	2b	4·3	(0a)	···	1b	1·3	0a	···	0a	···
7	1c	0·9	2b	5·7	0a	···	1b	2·7	0a	···	1a	0·1
8	(1b)	–	1b	0·3	0a	···	2b	4·8	2b	3·4	0a	···
9	(1c)	–	2c	3·6	1b	2·5	1a	0·1	1b	0·8	0a	···
10	1b	0·5	1b	1·5	1a	0·7	2b	4·3	1b	0·8	1a	0·1
11	1b	0·3	1a	0·3	1b	0·3	1b	2·1	1a	0·3	1b	2·7
12	2b	3·7	0a	···	2c	5·1	0a	···	2a	3·4	1b	1·0
13	2b	3·5	2b	13·1	2c	3·8	0a	···	1b	2·5	(1b)	–
14	(1b)	–	2b	3·7	1b	0·4	1a	0·6	(1b)	0·3	1b	0·5
15	(0a)	–	1b	2·0	1b	2·0	1a	0·1	0a	···	1b	0·3
16	(1b)	–	(2c)	–	1b	0·7	1b	2·7	2b	3·4	2b	8·8
17	1a	0·2	0a	···	2b	3·1	1b	1·5	1a	0·3	0a	···
18	1b	1·7	1b	0·4	2b	9·3	2a	4·1	0a	···	1b	0·3
19	1b	0·1	2b	5·8	1c	0·9	2c	7·5	(0a)	–	0b	···
20	1b	0·8	0a	···	1b	1·6	1a	0·2	0a	···	0a	···
21	(2c)	–	0a	···	(0a)	···	2b	4·4	1a	0·1	(0a)	···
22	(2b)	–	1a	0·1	(1a)	–	1b	1·8	0a	···	1a	0·3
23	1c	1·3	0a	···	1a	1·0	1a	1·8	(1a)	–	0a	···
24	1b	0·3	0a	···	1a	0·1	1b	1·9	2b	11·7	1b	2·1
25	1b	3·0	1b	0·4	(1b)	–	1a	1·7	(2b)	6·4	1b	1·3
26	1b	1·5	2c	3·2	(1a)	1·7	1a	1·6	1b	0·5	1b	0·3
27	1c	1·1	1c	1·9	(1b)	1·1	1b	1·1	1a	0·1	2c	4·9
28	1b	1·6	1b	1·5	1b	0·9	1b	0·2	0a	···	1b	3·0
29	1a	0·9	1c	1·5	1c	1·0	2b	3·7	2b	–	1a	0·3
30	1b	2·1			1b	1·0	0a	···	0a	···	0a	···
31	1b	0·9			(1b)	0·7			0a	···		
Total	38	44·1	32	60·0	31	42·8	33	59·3	28	46·1	25	40·1
No. of days used	31	23	29	28	31	28	30	30	31	28	30	29
Mean	1·23	1·9	1·10	2·1	1·00	1·5	1·10	2·0	0·90	1·6	0·83	1·4

	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	0·3	0a	···	(1b)	–	1a	3·0	0a	···	1b	2·1
2	1a	0·1	0a	···	1a	0·6	2b	3·5	0a	···	1c	2·2
3	1b	1·4	(0a)	···	1b	3·3	2b	4·5	1c	1·9	(1b)	–
4	1b	1·4	0a	···	1b	0·8	1a	0·9	2c	5·0	2b	10·1
5	1b	1·2	(0a)	–	1a	0·2	0a	···	1c	3·0	1b	0·5
6	0a	···	0a	···	1a	0·3	0a	···	1c	1·9	2c	6·6
7	0a	···	0a	···	1b	3·9	1a	0·1	(1a)	–	1c	0·9
8	1b	2·9	1b	0·5	1b	2·0	1a	0·1	1b	1·2	2c	3·1
9	0a	···	(0a)	···	1a	0·4	1a	0·1	1c	0·9	2c	4·4
10	1b	1·5	1a	0·1	1a	0·1	0a	···	1a	0·5	(1b)	–
11	1a	0·1	1b	0·7	(0a)	···	1a	0·1	0a	···	2b	5·9
12	1a	0·3	(1b)	–	(0a)	–	1b	1·1	0a	···	1b	1·7
13	0a	···	1b	0·8	0a	···	(0a)	···	1b	2·7	0a	···
14	1a	0·3	0a	···	0a	···	2c	11·1	1b	0·9	1a	0·5
15	0a	···	2b	4·4	1a	1·0	1b	1·6	1b	2·4	1b	0·6
16	0a	···	1b	0·5	(1c)	–	1b	1·7	1b	0·3	1a	1·6
17	0a	···	0a	···	(1b)	–	2b	4·8	(2b)	–	(1b)	–
18	0a	···	1a	0·1	(0a)	–	1b	2·0	2b	3·4	1b	2·6
19	0a	···	(1a)	–	0a	···	1b	2·0	1b	1·8	1b	0·3
20	0a	···	0a	···	2b	4·7	1a	0·1	1b	3·2	1b	2·7
21	0a	···	0a	···	(0a)	–	0a	···	(0a)	···	1b	2·0
22	(0a)	···	0a	···	0a	···	0a	···	2b	5·0	2b	3·3
23	0a	···	0a	···	2b	3·2	(2c)	–	1a	0·3	0a	···
24	1a	0·8	1a	0·5	0a	···	1b	0·3	(1c)	–	1a	0·1
25	(0a)	–	1b	1·4	1b	2·2	(1b)	–	1b	0·6	2c	6·2
26	2b	4·7	0a	···	(2b)	–	2b	4·9	0a	···	1b	2·8
27	1a	0·2	1b	1·4	1c	2·3	1b	1·0	(1b)	–	1c	0·8
28	(1a)	–	0a	···	1b	0·6	2b	4·9	2c	4·1	1a	0·1
29	0a	···	0a	···	1b	0·5	1a	1·6	1c	2·2	1b	2·1
30	0a	···	0a	···	1b	0·8	1b	0·6	(1b)	–	1b	0·1
31	0a	····	(1b)	–			1a	2·8			1a	0·1
Total	15	15·2	14	10·4	24	26·9	32	52·8	29	41·3	36	63·4
No. of days used	31	29	31	28	30	23	31	29	30	25	31	28
Mean	0·48	0·5	0·45	0·4	0·80	1·2	1·03	1·8	0·97	1·7	1·16	2·3

Annual values: Character 0 1 2 — No. of days used 94 207 65

Mean character figure 0·92

Duration: Total 502·4 hr. — No. of days 328 — Mean 1·53 hr.

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

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

4 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — January 1944

	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	355	370	375	378	384	382	384	391	380	373	375	373	376	386	366	452	388	371	372	378	387	368	362	365	379
2	366	357	367	368	370	375	380	381	380	377	375	373	373	381	386	375	377	383	376	372	364	368	375	375	374
3 q	375	375	374	374	375	380	377	377	378	376	377	377	375	377	376	384	385	384	385	381	379	377	376	375	378
4 q	374	382	373	376	376	381	386	385	384	381	381	381	385	388	390	387	386	386	386	386	385	385	379	382	383
5	389	359	373	373	377	371	382	388	381	373	379	382	384	384	381	375	366	378	384	378	378	377	378	377	378
6 q	375	375	376	376	379	381	382	383	383	378	374	374	377	376	389	393	391	390	385	384	375	378	376	375	380
7 q	381	377	377	381	380	382	384	387	384	384	384	384	381	384	383	386	387	384	381	381	381	383	384	382	383
8	382	381	379	380	385	389	389	391	382	377	375	373	372	377	383	380	372	378	381	381	384	380	381	381	381
9	380	382	377	380	385	390	393	393	391	390	390	386	381	389	393	388	384	374	381	384	384	382	376	392	385
10	373	375	379	383	384	388	389	390	396	398	396	387	381	382	382	383	380	378	381	384	373	382	387	346	382
11 d	359	362	357	378	394	387	392	390	381	359	367	379	377	376	382	371	365	390	346	363	373	376	371	366	373
12	354	355	371	375	367	368	368	381	358	371	378	363	362	366	370	371	369	377	373	370	375	377	376	389	370
13 d	381	358	364	379	376	380	375	374	363	358	366	368	368	360	379	384	377	364	383	375	350	381	384	373	372
14 d	361	359	363	376	385	373	384	378	383	371	344	354	365	371	380	376	385	393	364	358	370	388	371	372	372
15 d	329	354	345	367	371	381	378	380	382	377	375	373	367	375	381	351	375	373	390	367	380	337	385	367	*369*
16 d	358	350	373	373	375	381	381	375	375	372	367	372	371	379	370	391	359	380	368	373	380	377	381	376	373
17	372	372	368	376	381	376	387	384	385	389	378	365	362	377	370	385	387	384	385	373	372	373	371	388	377
18	381	376	380	377	381	390	384	383	380	350	324	360	367	393	381	376	381	371	369	384	377	361	377	373	374
19	375	376	363	370	382	385	388	389	380	385	385	384	378	375	373	378	370	381	380	385	387	385	383	388	380
20	378	377	381	384	383	389	390	381	385	384	375	368	370	372	377	377	379	380	370	380	375	388	389	381	380
21	378	381	380	376	381	381	384	385	385	380	372	371	370	375	375	380	388	391	384	377	379	384	384	383	380
22	394	393	380	385	381	386	390	392	385	381	380	376	377	375	380	383	383	383	381	381	381	382	381	383	383
23	384	380	382	381	386	387	390	393	393	382	375	374	375	377	382	385	386	389	388	386	375	373	380	379	383
24	390	383	382	384	387	389	391	391	388	382	379	379	381	386	385	385	376	381	387	390	390	389	390	392	386
25	390	390	389	389	389	390	393	389	391	385	383	385	390	390	384	383	385	381	389	389	388	377	380	384	387
26	384	386	386	389	390	393	393	394	393	390	381	381	387	401	406	407	405	392	383	407	412	346	369	366	*389*
27	356	364	373	376	379	384	384	381	374	368	367	372	375	389	388	384	385	385	385	364	373	380	382	383	377
28	385	373	375	378	388	382	381	387	392	389	384	378	382	387	388	388	389	387	389	384	393	381	382	381	384
29	377	378	383	380	384	386	386	388	385	380	382	385	383	389	384	373	381	383	385	387	384	381	383	383	383
30 q	382	384	383	381	384	385	385	386	384	381	381	383	380	381	384	385	389	385	385	386	385	382	380	382	383
31	384	385	387	385	385	390	390	390	387	385	383	381	384	389	390	388	379	381	384	390	384	381	369	367	384
Mean	374	*373*	375	378	381	383	385	*386*	383	378	375	376	376	381	382	384	381	382	380	380	380	377	379	378	379

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3'$; V, -3γ.

MAGNETIC DECLINATION (WEST)

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

5 LERWICK (D) — 11° + — January 1944

	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	39·8	44·7	43·6	44·2	43·6	44·7	43·5	43·4	43·4	42·4	42·4	45·2	47·4	48·0	50·0	51·0	57·5	52·3	46·1	47·2	33·4	37·7	39·5	38·3	*44·6*
2	39·3	40·3	41·3	40·9	42·1	42·4	43·0	43·0	43·1	44·3	45·2	45·5	47·2	46·5	46·8	47·4	44·9	45·3	45·2	43·0	34·7	39·3	41·5	43·0	43·1
3 q	44·7	43·3	42·6	42·7	43·1	42·3	42·8	43·0	43·2	44·2	44·8	45·7	46·3	45·8	45·3	44·5	44·0	43·6	44·1	43·6	43·2	42·9	42·0	41·7	43·7
4 q	41·3	43·1	40·1	39·0	39·1	40·3	41·3	43·2	43·5	44·7	45·2	45·4	46·3	46·1	46·0	47·0	46·2	46·6	45·1	45·0	41·3	41·0	42·2	38·1	43·2
5	41·4	36·2	37·8	40·2	42·9	43·2	42·3	42·8	43·4	47·0	47·1	45·3	46·5	46·3	46·2	46·6	45·5	42·2	40·2	43·7	42·3	37·5	41·5	43·0	43·0
6 q	43·1	42·4	43·3	43·8	43·4	43·6	43·4	43·3	43·2	44·1	44·5	45·0	46·1	47·5	46·9	46·4	46·2	45·4	45·7	44·4	37·3	36·1	38·9	42·4	43·6
7 q	46·0	42·9	42·3	41·9	42·3	42·0	41·4	42·4	43·3	45·1	44·6	44·7	45·7	46·7	45·4	44·8	44·6	45·0	42·5	43·5	42·1	42·3	43·1	43·4	43·7
8	44·4	43·3	42·6	43·0	43·6	42·7	43·3	42·5	43·1	45·1	46·1	47·5	49·5	49·7	49·3	48·3	45·5	45·8	43·4	41·4	37·4	42·4	42·2	43·3	44·4
9	41·7	43·6	42·6	40·3	41·8	43·3	43·4	43·5	43·5	44·2	45·1	44·6	45·0	45·7	45·9	46·3	47·5	43·7	45·4	43·9	43·3	41·7	40·5	33·7	43·3
10	41·8	42·4	43·1	43·6	44·0	43·4	43·4	43·6	43·9	45·2	45·0	45·1	46·0	48·3	46·4	47·1	44·4	44·9	45·1	44·3	39·5	40·4	23·6	19·4	42·2
11 d	37·2	37·3	43·6	38·0	41·0	44·7	45·3	46·8	45·4	45·8	45·4	45·1	45·6	45·4	45·5	46·4	40·3	5·8	21·7	40·0	33·1	37·0	37·4	41·2	*39·8*
12	36·4	41·7	43·7	42·3	40·2	46·6	48·9	49·0	48·3	46·3	47·1	46·6	43·5	45·7	44·9	32·2	46·3	44·1	35·5	39·4	42·1	40·2	41·1	35·8	42·8
13 d	40·5	39·9	41·1	37·4	41·3	42·6	44·9	49·1	47·0	47·0	47·7	45·4	45·1	47·6	38·8	44·6	44·4	42·2	31·1	24·6	36·5	41·3	38·5	37·5	41·5
14 d	39·2	45·4	48·3	45·3	42·6	44·4	48·2	48·1	47·2	47·7	47·6	46·1	48·5	42·7	48·2	40·6	38·6	17·8	33·2	43·4	37·0	32·6	37·6	39·5	42·1
15 d	50·2	44·3	49·1	46·0	38·7	44·5	44·6	45·6	43·5	43·7	44·9	45·9	45·6	45·4	44·3	38·2	40·5	44·4	31·5	21·7	24·4	28·3	34·4	33·4	40·5
16 d	40·3	49·6	39·3	39·3	41·9	43·5	44·8	42·7	44·7	45·2	42·7	45·3	47·4	45·3	40·3	36·8	37·1	26·2	43·5	43·7	37·3	36·6	36·2	40·0	41·2
17	42·4	43·3	44·1	41·7	43·7	50·1	46·8	49·3	46·2	44·9	46·7	46·6	43·7	45·6	37·1	41·6	44·3	36·7	40·7	36·8	23·1	31·9	40·1	44·7	42·2
18	41·6	42·3	43·5	44·5	47·2	45·4	45·5	44·6	44·7	47·6	49·5	47·5	45·5	41·4	43·6	38·3	25·0	39·2	44·7	28·7	33·2	36·0	39·7	43·2	41·8
19	45·3	42·6	50·1	49·2	42·9	43·7	43·8	45·3	42·6	44·9	44·7	44·8	45·2	45·0	44·6	44·2	33·2	41·1	41·2	39·2	42·2	40·3	41·0	40·2	43·2
20	37·4	40·2	44·3	43·8	44·1	44·4	43·5	43·5	43·2	43·7	45·3	45·5	46·4	46·7	46·9	45·3	44·7	44·5	40·4	38·3	37·6	33·0	30·9	38·8	42·2
21	40·2	44·9	42·2	43·7	41·5	42·6	42·3	42·2	41·8	41·7	43·4	45·3	45·4	44·9	44·4	42·7	43·3	42·5	41·6	39·3	41·4	40·9	41·4	40·5	42·5
22	43·8	38·3	39·7	40·5	41·9	43·4	43·6	43·3	41·8	42·0	43·8	44·6	45·5	46·4	46·2	44·7	44·5	43·8	43·7	41·4	36·0	40·8	40·6	41·5	42·6
23	41·9	44·8	44·7	44·1	41·2	40·6	41·9	42·1	42·4	44·0	43·5	44·3	44·5	44·6	44·4	43·0	42·5	42·3	42·0	41·8	40·9	40·2	39·3	43·7	42·7
24	37·7	40·3	42·0	42·6	42·3	42·3	42·4	41·9	42·1	42·3	43·5	44·5	45·4	45·5	45·1	44·5	43·0	46·8	44·6	43·1	42·1	41·5	41·3	41·7	42·9
25	42·6	42·9	43·2	43·0	43·3	43·2	42·5	41·6	41·4	42·3	43·7	45·2	45·5	46·4	47·1	46·6	47·0	44·3	43·0	42·2	41·9	33·3	38·2	40·4	42·9
26	42·1	42·3	42·7	42·7	42·7	42·6	42·3	41·7	41·6	43·0	43·5	44·5	46·5	47·9	47·1	46·2	48·2	48·6	47·9	48·3	40·6	34·1	18·8	30·1	42·3
27	37·4	39·6	40·8	42·1	39·5	39·7	40·7	41·1	42·0	43·9	45·6	47·2	46·9	45·7	46·4	44·9	43·6	45·7	41·7	39·6	38·5	45·5	40·8	39·6	42·4
28	38·4	36·5	39·6	39·2	39·8	40·0	42·8	43·3	42·7	43·6	45·8	43·4	44·9	47·0	47·5	45·8	46·1	45·9	45·5	45·0	36·0	40·7	39·5	39·7	42·4
29	41·0	41·7	41·2	42·0	42·6	42·8	42·6	41·7	41·6	42·5	43·8	44·6	45·1	47·2	47·7	48·1	48·6	48·3	45·2	43·2	41·8	37·5	40·6	41·2	43·4
30 q	40·9	41·2	41·4	43·1	39·6	41·0	41·9	42·0	42·2	42·6	43·5	44·1	44·9	45·9	46·4	45·1	46·0	46·8	46·4	44·9	42·6	38·5	40·6	41·3	43·0
31	41·5	42·3	41·0	41·3	41·8	41·9	42·6	42·5	41·4	42·3	42·9	44·1	45·7	46·6	47·7	47·2	50·5	52·5	50·1	44·0	43·6	37·7	32·0	33·7	43·2
Mean	41·3	42·1	42·7	42·3	42·1	43·2	43·5	43·8	43·5	44·3	45·0	45·3	45·9	*46·1*	45·6	44·4	44·0	42·1	41·9	40·9	38·3	38·4	*38·2*	39·2	42·7

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

6 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — JANUARY 1944

	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	872	903	921	927	930	935	936	934	937	942	946	945	942	944	996	1104	1071	1037	1001	987	1026	976	959	941	*963*
2	940	938	942	941	940	940	942	942	941	943	944	945	946	943	943	950	953	947	952	960	970	954	948	943	946
3 q	934	935	936	937	937	936	938	939	938	939	939	940	940	941	942	940	940	940	941	944	946	946	946	946	940
4 q	942	930	932	933	934	933	932	935	936	938	939	937	936	938	939	939	940	941	941	943	957	960	955	948	940
5	873	873	910	922	921	931	934	932	933	938	939	941	938	938	939	947	958	965	957	953	949	950	942	934	934
6 q	936	936	937	938	937	936	936	935	936	938	942	944	943	947	946	941	941	941	944	947	959	959	955	952	943
7 q	939	936	942	939	937	933	933	931	933	936	938	939	940	941	939	939	939	941	945	943	946	944	942	941	939
8	940	940	940	938	934	932	931	928	929	931	935	939	938	941	946	953	960	952	947	945	941	938	939	939	940
9	937	905	905	920	930	930	929	929	929	929	929	931	934	933	936	938	942	958	948	948	940	939	938	928	933
10	928	933	935	934	934	933	931	929	925	926	928	932	935	937	939	942	947	950	949	944	963	948	899	843	932
11 d	894	911	907	861	863	903	916	921	928	934	941	935	935	939	947	963	1002	1060	1012	975	948	909	907	907	934
12	913	918	926	932	930	939	930	939	949	945	946	953	964	960	969	1019	997	974	983	964	951	947	947	924	951
13 d	871	835	902	913	917	916	935	911	939	950	949	952	961	982	985	963	963	976	1007	974	924	895	888	895	933
14 d	918	915	904	903	921	928	927	926	929	935	949	945	946	971	987	1006	994	1048	993	967	959	938	925	910	948
15 d	853	869	897	885	896	913	924	932	939	941	941	943	945	948	949	982	978	981	974	993	945	914	840	868	*927*
16 d	898	845	891	917	924	931	930	941	944	948	955	955	953	955	979	990	995	980	958	950	946	934	906	890	938
17	845	864	901	914	911	900	905	914	918	935	940	949	961	960	980	976	960	963	956	957	964	951	943	912	932
18	914	927	929	928	919	912	924	932	936	946	956	949	956	961	951	958	971	967	965	964	944	944	927	903	941
19	911	924	920	907	923	927	930	932	939	940	941	941	942	943	942	944	961	955	950	949	942	943	935	908	935
20	918	926	927	923	927	928	931	938	939	940	944	949	948	949	944	953	952	952	962	960	957	939	929	932	940
21	935	925	923	927	930	934	937	938	938	941	946	947	948	946	948	948	943	940	944	950	944	941	941	940	940
22	921	903	921	925	928	930	930	932	937	938	940	942	943	946	946	946	946	945	946	946	949	940	940	941	937
23	938	938	929	928	931	931	929	932	934	938	941	942	942	939	939	940	939	938	937	937	945	950	940	902	936
24	894	924	935	937	937	935	934	933	933	936	938	940	940	941	944	949	962	953	944	938	937	937	937	936	937
25	938	937	938	937	937	936	933	932	931	929	929	931	934	938	945	950	950	950	944	940	940	949	928	933	938
26	935	938	938	939	938	936	935	932	932	931	935	935	935	931	932	933	939	961	975	1037	1028	923	923	906	944
27	917	913	925	946	946	940	941	943	940	943	942	936	939	940	944	949	949	953	957	981	991	970	935	937	945
28	935	920	924	936	936	936	933	929	926	929	929	935	933	935	941	947	949	952	956	965	955	948	943	940	939
29	938	936	937	942	941	942	943	941	933	938	935	934	936	937	944	953	952	957	955	953	954	957	947	941	944
30 q	939	938	938	927	928	935	937	938	937	939	938	936	934	934	938	941	943	948	950	953	955	957	953	945	941
31	945	938	932	934	936	936	937	938	937	935	940	933	928	930	936	941	957	951	969	997	1013	992	973	949	949
Mean	916	*915*	924	925	927	930	932	935	935	938	940	941	942	945	950	959	961	*964*	960	960	958	945	933	924	940

Corrections to be applied to all values: H, −6γ; D, −4·3′; V, −3γ.

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

7 LERWICK — JANUARY 1944

	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 11° +		Minimum 11° +		Range	Maximum 46,000γ +		Minimum 46,000γ +		Range				
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ				°A.
1	15 35	*529*	327	0 0	*202*	16 39	*64·4*	16·7	20 44	47·7	15 33	*1171*	863	0 32	*308*	3,1,1,1,4,5,4,3	22	1	76·1
2	14 57	390	353	1 25	37	15 26	49·1	30·4	20 14	18·7	20 22	976	934	1 32	42	1,1,2,1,2,2,3,2	14	0	75·8
3 q	16 19	387	370	13 53	*17*	12 36	47·1	41·3	22 40	*5·8*	21 19	947	931	1 3	*16*	1,0,0,1,2,0,1,1	6	0	77·0
4 q	24 0	421	369	2 34	52	15 38	48·0	25·6	24 0	22·4	21 2	966	924	1 38	42	2,1,1,1,0,0,2,4	11	0	76·2
5	0 10	463	296	0 56	167	0 51	55·0	19·8	0 8	35·2	17 41	979	832	0 49	147	5,2,1,2,1,3,3,3	20	1	75·6
6 q	15 36	400	364	23 25	36	13 42	48·1	33·5	21 4	14·6	20 55	965	935	1 5	30	0,0,0,1,1,1,3,3	9	0	76·1
7 q	21 28	390	373	2 38	*17*	0 54	48·6	40·4	20 33	8·2	20 30	947	928	1 2	19	2,1,1,1,1,1,1,1	9	0	75·6
8	7 15	392	367	16 4	25	12 50	50·8	33·4	20 27	17·4	16 10	962	928	7 54	34	1,0,0,0,0,2,2,1	6	0	75·6
9	23 26	413	365	23 3	48	16 58	48·2	27·8	23 19	20·4	17 39	962	899	1 30	63	2,2,0,1,0,2,1,3	11	0	75·0
10	22 42	456	308	23 31	148	13 15	49·0	1·2	23 8	47·8	20 32	969	*797*	23 19	172	1,0,1,2,2,2,2,5	15	1	74·2
11 d	17 21	436	330	18 21	106	15 24	49·3	*−11·2*	17 40	60·5	17 26	1107	852	3 40	255	3,3,2,3,2,6,5,3	27	1	73·4
12	23 34	418	334	14 50	84	7 53	50·4	24·6	15 18	25·8	15 32	1026	901	0 0	125	3,3,3,2,4,4,3,3	25	1	73·1
13 d	18 33	448	309	20 55	139	20 50	54·8	14·9	19 37	39·9	18 30	1071	807	1 17	264	4,3,2,3,4,2,5,4	27	1	74·0
14 d	17 25	424	330	10 56	94	7 15	53·3	−9·0	17 48	*62·3*	17 24	1117	896	3 5	221	3,2,2,3,3,6,5,3	27	1	75·3
15 d	20 0	422	*287*	21 15	135	0 16	55·2	−3·1	19 55	58·3	19 17	1012	810	0 45	202	4,3,2,1,2,3,5,4	24	1	76·1
16 d	22 3	409	322	1 12	87	1 6	55·2	17·5	17 9	37·7	16 51	1006	823	1 35	183	4,2,2,3,4,4,3,3	25	1	77·1
17	16 29	410	339	12 17	71	5 29	53·2	17·6	20 50	35·6	14 47	991	835	0 37	156	3,3,2,2,3,4,4,4	25	1	77·7
18	19 54	418	308	10 9	110	10 31	52·3	16·9	19 40	35·4	16 43	977	896	23 42	81	2,2,1,3,2,4,4,3	21	1	77·9
19	23 37	395	348	16 24	47	3 0	56·4	25·8	16 37	30·6	16 36	969	898	3 26	71	3,3,2,2,1,3,3,2	29	1	78·1
20	21 37	410	364	15 42	46	13 45	48·5	23·9	22 3	24·6	18 58	969	913	0 0	56	3,1,1,2,2,2,3,3	17	1	77·9
21	17 53	394	366	14 52	28	1 35	47·7	33·9	19 6	13·8	14 58	951	917	2 9	34	2,1,0,0,1,1,2,0	7	0	77·8
22	0 38	414	371	13 41	43	13 31	46·7	30·8	20 10	15·9	20 22	951	897	1 21	54	3,1,1,1,1,1,3,1	12	0	77·3
23	22 18	396	367	21 7	29	23 37	49·9	35·6	22 45	14·3	21 14	951	868	23 50	83	2,2,0,1,0,0,1,4	10	0	77·4
24	0 44	396	367	16 31	29	17 21	48·4	33·8	0 40	14·6	16 40	967	874	0 0	93	3,0,0,0,1,2,0,0	6	0	76·9
25	13 5	395	364	22 0	31	16 40	48·5	22·5	21 43	26·0	21 28	954	918	22 26	36	0,0,0,0,1,2,1,4	8	0	76·1
26	20 37	477	314	21 3	163	17 9	51·5	6·9	22 25	44·6	19 51	1083	903	20 49	180	0,0,0,0,2 3 5 5	15	1	76·1
27	13 47	397	347	0 35	50	21 55	50·7	35·3	20 36	15·4	20 0	1002	905	1 24	97	2,2,1,2,2,2,3,3	17	1	75·9
28	20 21	415	364	1 39	51	14 40	48·3	29·4	20 19	18·9	20 9	971	913	1 53	58	2,1,2,2,1,1,3,1	13	0	76·4
29	1 50	393	368	15 20	25	17 3	50·1	33·6	21 5	16·5	21 4	962	930	1 55	32	2,0,0,0,2,1,3,2	10	0	76·8
30 q	16 40	392	375	9 34	*17*	17 12	48·1	35·6	21 45	12·5	21 49	963	924	3 39	39	0,2,0,1,0,1,1,2	7	0	77·3
31	14 11	394	360	22 33	34	16 56	53·7	28·8	22 9	24·9	20 13	1021	928	12 50	93	1,0,0,0,0,2,3,3	9	0	77·9
Mean	− −	416	346	− −	70	− −	51·0	23·0	− −	27·4	− −	996	890	− −	106	1·9	15·6	0·48	76·2

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.

8 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — FEBRUARY 1944

	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	372	372	373	381	382	383	383	383	380	376	373	371	370	376	382	385	386	386	385	380	381	382	385	384	380
2	384	383	381	380	378	384	394	391	380	382	381	380	380	383	385	387	386	389	386	387	384	377	384	375	383
3 q	376	381	383	380	385	383	385	386	385	385	380	380	382	385	386	385	386	386	385	384	385	388	387	387	384
4	385	385	384	385	395	397	395	394	397	399	400	394	389	389	388	394	396	385	377	373	388	392	386	388	*390*
5	386	385	386	387	388	389	389	393	393	393	393	387	385	388	393	392	393	389	381	376	380	381	389	385	388
6	379	383	385	386	386	387	388	389	388	389	389	384	381	381	384	382	384	388	390	392	393	392	389	389	387
7 d	396	390	389	393	398	405	398	401	397	376	358	374	365	398	373	392	366	372	372	388	359	370	366	295	379
8 d	265	298	360	373	361	349	372	376	375	372	368	369	371	355	376	375	375	376	383	399	403	418	369	373	367
9 d	375	380	381	384	386	383	359	376	375	368	361	357	359	376	375	377	385	367	367	398	375	380	381	386	375
10	388	378	373	372	354	391	379	375	377	372	356	376	376	379	389	388	381	375	385	394	376	381	379	384	378
11	378	349	369	363	376	391	390	371	370	353	351	362	353	375	384	366	385	392	387	380	384	389	389	368	374
12	369	367	369	359	391	393	387	383	382	380	375	372	372	362	370	390	387	391	389	382	381	388	385	385	380
13	384	384	385	385	385	387	386	386	384	381	381	378	372	370	383	387	380	378	386	388	395	396	387	416	385
14 d	370	253	256	273	393	293	299	333	351	329	346	370	363	369	366	381	375	375	380	377	394	384	377	379	*349*
15 d	381	364	357	366	384	375	378	380	382	373	367	366	367	376	379	383	381	378	376	370	374	372	377	382	375
16	379	374	381	381	380	383	375	372	376	372	364	371	375	384	383	375	384	380	382	383	385	390	383	380	379
17	387	381	384	382	384	385	384	382	380	373	375	377	381	381	372	381	377	384	387	386	379	387	381	384	381
18 q	382	380	377	380	382	384	384	384	383	383	372	367	370	380	387	388	388	388	389	389	388	388	388	387	383
19	388	387	386	385	391	393	390	388	388	380	379	375	378	381	385	388	388	388	390	389	389	390	388	387	386
20	388	384	387	390	391	393	397	402	399	393	375	376	388	388	380	372	384	378	385	378	371	383	374	349	384
21	339	383	379	375	366	376	388	384	381	371	363	376	375	380	385	375	380	382	384	387	383	386	379	372	377
22	381	385	375	376	387	384	384	386	387	384	382	378	376	381	383	384	385	384	386	387	388	388	385	384	383
23	386	383	379	377	380	386	386	383	386	386	381	380	374	378	386	387	385	387	384	384	387	386	394	386	384
24 q	384	384	381	382	383	389	392	392	391	387	382	380	380	385	386	388	388	389	391	390	383	388	393	382	386
25 q	386	387	383	386	386	390	394	392	387	383	378	377	379	388	392	392	391	390	393	394	394	392	395	389	388
26	387	386	386	387	389	391	391	392	388	383	377	380	389	395	396	395	394	393	395	397	394	388	391	383	389
27 q	387	392	386	387	387	388	388	387	384	378	374	370	370	375	382	389	389	388	390	394	393	392	391	388	385
28	392	388	383	388	393	394	396	395	392	383	379	377	376	382	388	388	394	394	394	386	389	389	390	391	388
29	392	389	392	394	391	387	392	390	389	377	373	371	375	389	392	387	387	389	386	395	397	395	381	389	387
Mean	377	374	376	377	384	383	384	*388*	384	378	374	*372*	375	380	383	385	385	384	385	386	385	387	384	380	381

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3'$; V, -2γ.

MAGNETIC DECLINATION (WEST)

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

9 LERWICK (D) — 11° + — FEBRUARY 1944

	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	35·5	36·0	38·0	39·6	41·8	42·6	42·3	41·9	41·3	41·3	42·2	44·2	45·7	47·2	46·6	45·9	45·7	46·2	46·4	41·8	41·4	41·9	40·6	39·6	42·3
2	41·2	40·9	41·2	41·0	39·6	42·2	42·2	41·4	42·8	44·6	43·8	45·7	45·5	46·3	45·6	45·9	45·4	45·6	45·2	44·3	44·2	36·6	34·8	38·5	42·7
3 q	40·4	40·3	40·7	42·2	42·4	42·8	42·6	42·1	42·2	42·5	43·1	44·8	45·2	45·6	45·5	44·8	44·9	44·7	44·2	42·6	40·4	41·6	42·4	42·1	42·9
4	41·6	41·7	42·5	43·1	40·5	40·0	41·5	42·7	42·6	43·0	44·6	43·8	45·5	47·2	47·0	45·2	45·7	45·3	41·0	37·1	42·3	42·8	41·9	41·6	42·9
5	41·5	42·6	43·3	43·1	43·2	42·9	44·0	43·5	42·9	42·4	43·9	45·2	45·6	45·7	45·9	45·4	45·5	45·9	44·6	44·2	43·3	39·9	38·1	37·6	43·3
6	38·2	42·3	42·8	42·7	42·9	43·5	43·6	43·3	42·8	42·6	42·5	43·5	44·3	45·7	45·1	44·1	43·7	43·7	43·5	43·4	43·0	42·8	42·2	41·6	43·1
7 d	44·5	42·9	43·1	42·8	42·5	42·3	44·1	47·9	47·7	46·5	51·1	47·3	53·4	60·1	49·0	50·7	41·2	30·4	29·7	34·7	33·2	29·7	30·9	37·3	42·6
8 d	47·8	43·6	42·9	43·3	43·6	48·5	51·1	52·2	44·8	44·7	45·0	45·6	45·5	43·8	43·3	44·5	42·2	36·3	41·9	32·5	30·6	35·9	38·5	41·1	42·9
9 d	41·3	41·6	41·9	42·0	42·6	45·7	54·5	56·2	48·2	45·4	43·6	46·0	48·2	45·3	46·4	40·8	41·2	36·6	36·8	32·9	40·0	40·1	41·1	42·2	*43·4*
10	39·6	41·8	43·7	48·0	45·4	43·7	43·4	44·1	42·4	45·1	44·8	42·4	45·2	40·8	42·3	35·7	37·0	40·5	29·7	34·2	39·3	39·2	40·6	42·7	41·3
11	43·3	43·1	52·1	39·7	39·3	42·4	42·9	45·7	43·6	45·3	43·1	44·8	45·3	45·4	43·9	36·3	41·8	42·6	41·6	37·3	36·3	40·6	37·6	36·9	42·1
12	39·0	42·2	41·8	47·6	43·4	41·9	44·6	43·1	44·2	44·3	44·3	43·7	45·7	43·9	42·1	44·0	43·7	42·1	41·9	37·9	36·2	41·5	40·6	41·0	42·5
13	40·9	41·5	42·3	42·5	42·3	42·1	41·9	42·1	41·3	40·8	42·1	43·1	43·8	44·7	45·5	46·0	42·2	45·5	44·8	42·3	40·7	41·7	35·3	21·7	41·5
14 d	31·2	33·0	37·7	29·5	31·0	56·1	66·8	50·3	45·4	45·3	45·3	47·7	45·7	44·6	45·1	42·5	42·0	41·7	38·9	34·5	25·9	35·7	40·5	40·7	41·5
15 d	35·7	35·8	45·8	38·1	37·3	39·1	40·5	40·8	41·1	41·8	44·8	44·1	45·6	42·2	44·3	38·8	39·7	27·6	26·3	36·5	32·8	39·8	44·5	39·7	*39·3*
16	40·4	44·8	41·0	40·4	41·1	40·4	41·6	40·9	42·3	44·0	45·1	46·3	45·4	45·4	44·8	42·7	40·9	42·1	42·7	42·1	41·6	40·9	40·6	45·5	42·6
17	45·1	42·6	42·5	40·6	40·1	40·4	40·7	40·6	40·4	41·7	43·7	45·1	45·3	45·9	43·7	43·5	42·7	41·7	42·0	41·9	40·1	36·3	39·2	40·1	41·9
18 q	41·4	41·1	40·8	40·2	40·2	40·9	40·6	41·0	41·0	42·1	43·9	45·2	44·8	44·3	44·1	43·2	42·8	42·6	42·3	42·1	41·6	41·7	41·3	41·4	42·1
19	41·6	41·4	41·5	42·2	40·5	40·4	40·5	40·5	40·8	43·3	46·1	46·8	47·5	46·1	44·4	42·8	42·4	42·3	42·4	42·4	42·2	41·8	41·2	41·4	42·6
20	40·7	40·6	41·3	41·0	40·9	41·0	40·9	40·9	41·9	43·7	46·8	48·1	48·7	51·7	50·6	47·4	45·9	46·6	39·0	38·3	37·4	37·2	35·8	43·6	42·9
21	36·4	35·5	38·8	38·8	40·2	40·8	39·6	40·2	41·2	41·3	42·6	44·7	44·8	46·0	45·8	45·7	44·3	43·4	42·2	41·2	38·7	37·8	38·5	38·0	41·1
22	39·5	41·6	37·4	38·8	38·7	38·8	39·8	40·7	40·6	41·1	43·4	44·3	44·5	44·6	44·2	42·7	43·1	42·9	42·9	42·5	42·0	42·0	41·0	40·7	41·6
23	40·9	40·6	41·2	40·6	39·7	40·7	40·8	41·8	41·8	41·3	41·9	44·2	45·6	45·5	44·7	44·6	44·3	44·5	45·2	44·1	41·8	40·6	38·1	37·2	42·2
24 q	38·1	39·6	39·9	40·4	39·9	39·8	39·8	40·5	41·4	42·0	41·8	42·8	44·3	45·4	44·9	43·8	42·7	42·7	42·8	42·3	40·8	42·1	37·3	39·8	41·5
25 q	41·7	36·6	39·1	37·8	38·3	38·8	38·9	39·7	40·1	41·6	42·2	44·7	45·8	45·8	44·3	42·5	41·8	42·4	42·6	42·5	41·8	42·2	40·5	39·0	41·3
26	39·4	40·3	40·2	40·5	40·7	40·4	41·2	40·8	41·1	41·5	42·6	44·6	44·7	45·3	44·7	43·8	43·2	43·2	43·1	43·2	44·1	41·4	40·6	39·4	42·1
27 q	38·1	37·6	39·0	38·2	39·3	39·2	40·3	40·9	40·9	41·6	42·9	44·7	45·7	46·6	46·2	45·6	45·0	44·5	43·2	42·0	41·5	41·4	41·4	40·0	41·9
28	39·8	38·3	40·1	40·1	39·5	39·8	40·4	40·5	40·5	41·5	42·7	45·8	47·1	47·3	47·1	45·1	43·9	43·9	43·7	41·8	40·7	38·8	38·6	39·4	41·9
29	40·7	41·2	41·3	40·2	39·0	41·5	41·2	40·8	40·7	41·5	43·7	45·8	47·0	48·1	49·4	48·8	47·1	49·4	47·5	44·1	38·7	35·0	37·0	40·4	42·9
Mean	40·2	40·4	41·5	40·9	40·5	42·0	43·2	43·0	42·3	42·9	43·9	45·0	45·9	*46·1*	45·4	43·9	43·1	42·3	41·3	40·2	39·4	39·6	*39·3*	39·7	42·2

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

10 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — FEBRUARY 1944

	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	938	929	933	933	939	940	942	942	943	945	943	940	938	937	937	935	937	939	942	952	957	956	953	950	942
2	944	941	938	932	930	932	928	930	935	934	938	938	936	938	939	942	942	942	942	945	955	967	951	950	940
3 q	944	938	935	936	931	933	934	934	935	934	934	935	936	937	938	938	938	937	938	941	942	937	938	938	937
4	938	935	932	921	913	916	919	922	923	924	924	928	930	933	939	939	938	944	950	957	940	935	938	937	932
5	937	935	935	932	932	931	930	928	929	928	929	931	931	929	931	933	933	937	947	950	951	950	935	923	935
6	927	929	933	933	933	932	931	930	931	931	932	934	937	941	943	944	941	936	934	934	934	934	935	936	934
7 d	928	927	932	934	931	926	926	914	916	930	941	942	959	1032	1050	1049	1029	1030	986	980	858	806	847	845	942
8 d	751	762	858	907	908	900	910	910	926	935	939	942	948	970	971	973	994	994	964	955	908	877	913	930	919
9 d	933	936	937	936	936	931	925	894	911	927	944	952	958	995	991	987	968	985	974	942	931	934	936	922	945
10	911	927	940	885	885	889	907	918	925	933	946	947	954	969	963	971	974	967	959	932	944	935	931	921	935
11	891	880	866	882	901	900	916	928	932	944	960	958	958	955	963	980	963	954	954	955	952	926	928	920	932
12	913	902	899	887	892	919	928	927	928	931	940	942	948	962	973	958	958	953	952	959	955	942	942	940	935
13	940	939	939	939	940	940	941	939	938	939	939	936	939	944	947	953	963	958	957	958	941	922	920	881	940
14 d	908	806	750	790	702	716	713	806	890	941	969	948	973	995	978	970	956	953	958	962	947	934	935	931	*893*
15 d	896	903	849	900	901	917	929	933	935	939	943	953	963	979	967	972	967	973	967	950	932	917	876	891	931
16	918	921	926	934	936	932	933	943	945	946	945	945	943	943	947	954	954	953	950	950	947	942	942	933	941
17	912	922	932	938	940	940	940	942	943	943	939	937	938	944	947	949	948	946	945	945	951	940	940	939	940
18 q	937	936	937	939	939	937	940	941	941	941	942	943	944	941	940	941	940	940	941	941	941	941	940	941	940
19	939	938	939	939	934	935	935	936	935	937	936	941	941	939	940	940	939	939	938	938	939	940	941	941	938
20	940	941	940	938	937	936	933	931	932	933	937	934	940	963	998	973	955	960	973	975	979	977	962	888	*949*
21	856	905	939	939	937	928	922	933	934	942	947	944	943	949	950	955	949	947	944	944	946	940	943	944	937
22	941	924	918	929	932	935	935	933	933	936	936	940	943	943	944	947	948	944	944	943	941	942	943	944	938
23	944	945	943	933	936	936	936	933	931	931	932	933	939	937	939	945	949	950	952	950	949	946	928	923	939
24 q	929	932	938	940	941	938	934	931	929	930	932	935	936	937	939	941	942	942	940	940	945	942	937	939	937
25 q	931	929	936	937	937	936	932	932	931	931	932	931	932	932	933	938	940	939	937	937	936	937	934	935	934
26	936	937	938	938	938	936	933	930	928	926	926	923	921	924	930	935	937	938	937	937	939	944	941	937	934
27 q	927	922	934	937	939	938	937	935	932	931	932	932	932	933	937	941	943	944	943	941	939	936	934	935	936
28	924	923	931	932	933	934	933	932	931	932	928	926	927	926	929	934	937	939	941	949	948	943	938	933	933
29	931	932	932	932	933	933	929	933	935	937	933	931	931	928	933	944	949	951	959	953	954	938	937	933	938
Mean	919	*917*	919	922	920	921	922	925	930	935	939	939	942	950	953	*955*	953	953	951	949	941	934	932	927	935

Corrections to be applied to all values: H, −6γ; D, −4·3′; V, −2γ.

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

11 LERWICK — FEBRUARY 1944

	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 11° +		Minimum 11° +		Range	Maximum 46,000γ +		Minimum 46,000γ +		Range				
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	′	h. m.	γ	γ	h. m.	γ				°A.
1	22 20	393	364	1 54	29	13 10	48·1	34·2	0 32	13·9	19 48	961	923	1 18	38	2,1,0,0,1,0,2,1	7	0	78·2
2	7 2	399	368	21 40	31	13 33	45·9	30·9	22 34	16·0	21 42	976	927	6 41	49	0,2,1,1,0,0,2,3	9	0	78·5
3 q	21 28	392	373	0 14	19	13 15	46·3	37·4	20 30	8·9	0 18	945	930	4 15	15	1,0,0,0,1,0,2,1	5	0	78·2
4	16 44	403	364	19 15	39	14 7	48·4	32·7	19 14	15·7	19 16	964	911	4 40	53	0,2,1,1,2,2,3,1	12	0	77·9
5	22 53	401	372	20 14	29	17 31	46·6	31·0	21 58	15·6	20 2	955	921	23 53	34	0,0,1,0,0,1,1,3	5	0	76·7
6	19 52	393	375	0 36	*18*	13 29	46·7	36·7	0 1	10·0	15 43	945	923	0 0	22	2,0,0,1,1,0,0,0	4	0	75·9
7 d	19 48	457	225	20 34	232	13 15	65·5	*−2·7*	20 45	*68·2*	15 48	*1109*	779	20 51	330	2,1,2,3,4,5,6,5	28	1	75·9
8 d	21 11	*481*	162	0 53	*319*	7 10	57·5	13·9	20 55	43·6	17 46	1007	703	0 46	304	5,3,3,2,3,4,4,5	29	1	76·5
9 d	19 23	430	341	11 34	89	7 0	65·2	15·9	19 18	49·3	17 43	1007	884	7 25	123	0,2,4,2,3,3,4,2	20	1	76·0
10	19 6	430	342	10 31	88	3 21	55·5	15·8	18 47	39·7	16 56	979	868	3 48	111	2,3,2,3,3,3,4,3	23	1	75·7
11	20 55	421	316	1 45	105	2 15	57·5	30·9	20 5	26·6	15 26	990	859	2 42	131	3,2,2,2,2,3,3,3	20	1	75·5
12	15 52	422	342	13 19	80	3 39	49·6	31·2	20 17	18·4	14 18	978	879	4 3	99	2,3,2,2,2,3,3,1	18	1	75·6
13	23 21	456	363	16 10	93	16 3	47·3	13·7	23 20	33·6	16 25	967	867	23 31	100	0,0,1.1,1,2,3,4	12	1	76·0
14 d	20 49	417	*109*	5 45	308	6 0	*80·0*	19·4	20 36	60·6	13 15	1001	*658*	6 10	*343*	5,6,6,3,3,3,4,3	33	2	76·1
15 d	19 37	434	336	2 2	98	2 10	58·1	15·7	17 54	42·4	19 35	995	820	2 33	175	4,3,2,2,2,4,4,4	25	1	76·6
16	21 44	408	358	10 39	50	23 31	49·6	38·9	0 0	10·7	15 50	959	910	0 0	49	2,1,1,1,1,1,0,3	10	0	77·0
17	21 12	405	367	14 12	38	13 46	47·5	32·2	21 14	15·3	20 40	955	910	0 40	45	2,0,0,1,2,1,1,2	8	0	77·4
18 q	16 30	393	363	11 5	30	11 34	46·2	39·5	4 7	*6·7*	12 24	946	936	0 44	*10*	0,1,0,1,1,0,0,0	3	0	77·2
19	5 38	393	372	11 9	21	12 43	47·9	40·0	5′ 2	7·9	22 40	943	932	4 8	11	0,1,0,1,1,0,0,0	3	0	77·1
20	13 48	410	307	23 40	103	14 46	59·5	25·2	18 45	34·3	14 34	1005	826	24 0	179	0,0,1,2,3,3,4,5	18	1	76·9
21	21 8	403	291	0 10	112	0 5	50·7	29·3	0 31	21·4	15 32	957	823	0 3	134	4,2,1,2,0,1,2,2	14	1	76·7
22	1 10	395	370	3 22	25	13 49	45·2	34·2	2 49	11·0	16 26	949	918	2 58	31	2,2,0,0,0,0,0,0	4	0	76·7
23	22 45	403	371	12 46	32	13 10	46·6	34·1	22 39	12·5	18 28	953	918	22 42	35	0,1,1,0,1,0,1,2	6	0	77·0
24 q	22 31	412	378	11 5	34	13 51	46·2	30·0	22 30	16·2	20 44	947	925	0 0	22	1,0,0,0,0,0,1,3	5	0	77·5
25 q	22 41	400	375	10 42	25	13 32	46·2	35·7	1 30	10·5	17 15	942	921	1 12	21	2,0,0,0,1,1,0,1	5	0	77·5
26	19 6	399	374	10 24	25	12 51	45·6	38·6	0 18	7·0	21 36	948	921	12 29	27	0,0,0,0,0,0,0,1	1	0	77·3
27 q	1 15	399	366	12 17	33	13 53	47·5	36·0	1 35	11·5	18 21	946	918	1 18	28	2,1,0,0,0,0,0,0	3	0	76·1
28	0 35	400	374	12 1	26	14 4	48·5	36·4	21 57	12·1	19 38	955	915	0 38	40	2,0,0,1,1,0,2,1	7	0	75·0
29	21 32	417	367	12 14	50	17 35	50·7	30·8	20 43	19·9	18 20	963	924	21 34	39	0,1,1,0,2,1,3,2	10	0	74·6
Mean	− −	413	337	− −	75	− −	51·6	28·9	− −	22·7	− −	971	881	− −	90	1·5	12·0	0·41	76·7

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.

12 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — MARCH 1944

	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	388	387	382	380	388	389	387	382	390	387	384	382	381	384	389	392	392	392	396	397	397	395	396	391	*389*
2	381	380	382	377	372	389	393	392	386	380	377	373	375	374	380	382	384	390	391	388	397	382	387	388	383
3 q	388	383	379	384	387	390	391	387	386	382	378	379	383	387	391	391	391	390	392	393	392	391	394	394	388
4	396	400	401	393	396	394	395	372	367	303	332	363	352	364	378	384	378	380	383	382	381	395	395	386	378
5	378	382	378	380	387	384	385	384	378	368	369	372	374	382	386	371	384	386	381	388	388	391	387	387	381
6	378	380	381	348	374	389	384	381	379	356	352	367	381	385	380	384	387	387	390	421	380	367	377	387	379
7 d	385	381	306	368	387	373	364	365	356	364	364	363	359	389	388	421	382	373	386	386	384	387	379	388	375
8	375	384	379	378	386	368	384	379	373	371	367	378	348	365	367	378	383	387	370	400	379	387	392	396	378
9	370	358	370	384	381	363	395	389	381	373	370	340	349	374	368	387	402	390	391	409	378	375	384	367	377
10 d	377	379	363	342	356	355	384	356	327	335	360	345	345	395	414	416	382	405	426	372	366	383	384	374	373
11	380	375	370	367	373	372	379	383	371	350	339	348	366	381	382	386	383	391	380	367	379	386	386	392	374
12	375	380	380	374	355	360	387	384	376	357	365	369	375	384	410	371	395	387	384	395	364	396	380	371	378
13	360	378	335	362	382	384	378	379	374	361	362	366	373	376	386	408	384	390	387	390	387	389	392	391	378
14	388	379	383	373	354	366	358	366	379	361	363	360	363	374	384	382	383	392	382	398	383	388	387	386	376
15 q	383	386	382	382	382	378	387	386	378	369	361	358	357	359	368	376	382	384	387	389	387	377	379	378	377
16	359	381	377	356	369	389	383	382	377	374	365	357	348	366	380	381	379	374	382	386	387	387	386	386	375
17 q	386	382	382	381	383	385	386	383	376	367	359	351	355	363	370	375	381	383	387	387	389	390	393	391	379
18	391	389	389	389	391	392	394	387	382	372	365	368	376	382	389	390	393	404	398	400	413	340	348	263	379
19 d	182	180	15	305	368	381	383	379	376	365	359	343	360	386	377	389	386	386	391	383	383	337	332	325	336
20	369	371	372	377	378	378	374	362	351	348	353	352	363	368	379	382	379	387	382	381	378	382	385	379	372
21	379	374	374	370	374	386	383	377	369	362	358	359	362	365	376	383	384	382	388	378	380	380	389	389	376
22	380	379	354	340	356	373	365	372	371	359	362	356	368	365	384	391	399	398	388	391	395	394	389	390	376
23	391	389	389	389	387	383	379	383	371	361	353	351	360	372	378	380	386	390	382	383	382	403	385	383	380
24 q	386	387	387	386	387	389	386	382	373	362	359	359	359	366	383	375	388	389	390	392	391	392	392	391	381
25	394	393	390	391	393	392	398	391	383	374	362	362	367	378	385	391	409	403	393	394	395	389	392	380	387
26 d	398	378	379	347	338	383	379	326	331	343	339	356	357	398	371	380	386	388	394	397	402	402	408	381	373
27 d	111	138	272	137	50	302	323	325	334	323	307	343	352	359	377	398	394	390	408	384	400	382	382	393	*316*
28	387	378	379	380	380	382	382	378	370	348	347	352	357	370	390	390	399	389	381	379	385	377	349	302	372
29	263	322	325	378	370	342	343	361	326	339	332	341	364	380	386	411	416	413	410	401	377	379	381	370	364
30	355	343	355	386	388	384	369	372	372	364	361	363	371	369	386	381	387	407	395	395	387	393	408	391	378
31	363	381	384	376	368	378	383	380	368	361	355	346	346	371	383	383	386	390	394	395	396	391	390	386	377
Mean	361	364	358	364	366	377	379	375	369	359	*357*	359	363	375	383	387	389	390	390	*390*	387	384	384	377	374

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3'$; V, Nil.

MAGNETIC DECLINATION (WEST)

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

13 LERWICK (D) — 11° + — MARCH 1944

	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	40·2	40·7	38·8	41·3	38·3	36·1	37·6	39·9	40·7	41·9	42·9	44·8	45·1	45·8	45·4	43·9	43·3	43·5	43·5	43·3	42·7	42·2	41·9	38·3	41·8
2	36·1	32·9	36·5	37·5	40·6	41·6	40·2	39·9	39·8	41·4	43·7	46·8	47·2	48·0	45·9	46·1	42·4	44·0	43·7	42·5	26·8	37·4	38·9	40·4	40·8
3 q	40·9	42·2	42·0	41·2	37·8	39·6	40·1	40·7	40·1	41·4	42·9	45·4	46·1	45·6	44·3	42·7	42·1	42·1	42·3	42·7	42·1	40·4	41·4	41·0	42·0
4	41·5	41·6	40·5	41·9	41·2	39·7	40·2	42·0	44·9	42·5	53·3	50·6	53·1	50·3	47·7	47·5	41·1	42·2	41·2	40·2	35·9	33·3	30·9	35·2	42·4
5	39·0	41·0	41·2	42·6	41·0	40·1	39·9	39·3	39·4	40·9	41·7	44·1	45·7	46·5	47·5	44·6	46·1	47·5	41·2	42·6	40·9	38·6	36·5	38·2	41·9
6	39·7	43·0	37·6	45·6	45·7	41·9	41·8	40·7	41·6	42·6	43·9	43·0	45·8	45·2	46·5	42·2	43·9	42·8	30·5	27·3	30·6	35·1	37·8	38·7	40·6
7 d	43·1	42·4	49·1	43·8	37·8	37·7	39·6	42·2	43·6	41·6	42·8	46·6	45·5	46·0	44·4	27·1	40·0	41·8	37·8	41·7	42·7	40·5	38·7	41·1	41·6
8	42·4	42·6	40·6	41·7	40·7	42·6	41·5	41·6	40·6	42·4	42·6	45·8	46·1	46·9	46·7	44·9	43·0	41·5	27·2	36·4	40·6	41·7	39·1	40·1	41·6
9	40·0	50·0	40·5	35·9	40·7	47·3	43·6	43·2	42·0	43·9	43·8	45·8	44·7	46·5	44·6	41·8	35·2	40·6	37·1	34·5	35·8	37·1	38·6	43·4	41·5
10 d	38·8	40·4	46·0	50·0	44·1	49·2	43·0	45·8	46·4	43·9	42·0	44·6	40·7	48·1	40·6	41·2	46·1	32·4	18·4	30·1	37·1	33·8	34·8	36·0	40·6
11	35·6	40·6	40·6	43·1	43·8	45·8	42·0	42·1	42·8	42·6	42·7	45·3	45·8	46·6	46·7	45·4	44·1	42·9	33·9	26·6	39·1	42·6	41·7	41·6	41·8
12	39·7	42·1	37·6	37·8	44·0	46·0	45·2	42·0	42·1	43·2	43·8	45·0	44·7	46·5	48·7	46·0	42·4	41·4	39·6	32·0	38·7	36·7	42·3	36·6	41·8
13	45·6	41·6	48·5	42·6	42·0	42·2	41·5	43·6	42·5	42·2	42·7	44·7	46·5	43·5	43·0	41·1	38·6	44·6	44·0	42·9	40·9	40·7	41·9	41·6	42·9
14	42·0	41·6	43·9	35·0	38·6	43·0	42·1	43·7	42·0	44·5	41·9	45·6	44·9	45·6	44·2	43·6	41·9	41·1	39·8	30·8	41·8	41·9	40·9	40·0	41·7
15 q	41·8	41·5	41·6	42·0	42·8	43·9	42·7	40·5	38·7	39·5	41·1	43·2	45·5	46·3	45·7	44·8	44·0	43·4	43·2	42·4	39·9	39·6	35·0	37·9	42·0
16	37·9	39·7	37·1	42·3	45·3	41·9	41·4	39·5	39·5	41·4	43·9	46·6	47·5	47·0	47·4	46·6	45·0	43·8	43·8	43·0	42·4	41·8	41·6	41·8	42·8
17 q	40·0	41·0	41·4	41·6	41·2	40·8	40·6	39·7	39·1	39·7	41·5	44·7	46·7	47·1	46·6	45·0	43·9	42·9	42·5	41·8	42·3	42·0	41·9	41·8	42·3
18	41·7	41·5	41·7	41·6	41·5	41·2	40·4	39·5	38·8	39·5	41·9	45·2	47·1	47·7	46·9	45·4	44·7	44·4	43·9	44·1	33·8	33·9	19·2	19·6	40·2
19 d	19·2	15·9	17·4	20·8	30·6	37·6	37·8	36·9	37·7	39·4	43·1	45·4	45·9	48·6	48·2	45·0	44·4	43·1	42·8	42·4	25·7	26·1	30·4	35·9	*35·8*
20	36·4	37·5	39·8	40·5	39·4	39·3	39·4	39·9	41·9	44·3	44·7	45·8	47·2	47·5	46·0	44·8	42·9	42·9	39·0	38·9	38·8	38·8	39·5	39·1	41·4
21	38·0	39·5	36·9	37·5	41·2	37·8	38·3	38·0	37·9	38·9	41·1	43·8	46·6	46·7	46·9	46·6	45·8	45·0	43·1	41·8	39·1	39·6	33·7	38·1	40·9
22	40·3	39·4	43·0	41·7	34·5	36·4	38·7	36·8	36·8	39·5	42·8	46·2	52·2	50·6	47·8	47·5	47·0	45·5	44·4	44·3	43·8	42·9	39·8	42·0	42·7
23	39·6	40·9	40·8	40·9	40·9	41·9	43·6	41·8	39·9	41·8	43·4	45·1	46·7	47·4	46·8	45·4	43·9	43·8	37·1	38·3	41·3	38·2	37·1	39·4	41·9
24 q	41·2	41·1	41·3	41·4	41·4	40·6	39·6	38·1	38·8	40·5	43·5	46·2	48·0	48·2	47·7	44·8	43·5	42·8	42·2	42·3	42·1	42·0	42·5	42·0	42·6
25	42·0	41·2	41·3	41·3	40·9	41·6	41·2	38·9	38·9	41·9	44·2	44·9	46·7	48·6	50·0	49·0	49·4	49·7	45·1	43·2	44·4	41·8	38·7	38·7	*43·5*
26 d	41·6	38·9	39·4	36·7	33·1	40·2	37·5	37·0	42·6	46·0	43·4	48·5	49·2	51·3	48·4	48·2	43·8	43·7	44·3	44·9	45·1	43·8	42·8	41·9	43·0
27 d	47·6	34·5	30·1	21·3	51·0	47·4	44·4	48·5	42·2	42·1	38·9	41·1	46·1	45·3	45·2	38·0	39·7	39·7	35·0	40·8	43·0	40·6	40·2	40·1	40·9
28	40·8	39·8	39·0	40·0	41·0	41·6	41·2	39·1	38·1	40·8	43·0	44·5	45·0	46·0	46·8	44·0	44·4	44·3	42·5	41·3	42·8	34·9	27·9	28·9	40·7
29	30·3	37·4	20·5	34·2	34·6	47·4	49·6	43·0	41·0	44·5	43·6	47·3	47·1	49·0	48·5	47·7	46·7	45·2	40·9	38·8	35·1	34·9	35·7	38·5	40·9
30	34·4	36·3	32·7	35·2	34·9	35·9	38·4	41·0	40·8	41·4	41·8	42·5	45·4	47·6	46·7	46·9	44·6	36·0	36·1	37·6	41·0	41·5	37·9	39·1	39·8
31	32·0	33·9	33·8	36·0	40·0	41·1	39·0	38·8	38·6	41·4	42·8	47·7	48·9	45·8	45·0	43·6	42·5	41·4	41·2	41·4	41·0	36·4	35·0	37·5	40·2
Mean	39·0	39·4	38·7	39·2	40·3	41·6	41·0	40·8	40·6	41·9	43·1	45·4	46·6	*47·1*	46·3	44·2	43·4	42·8	39·6	39·4	39·3	38·7	*37·6*	38·5	41·4

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

14 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — MARCH 1944

	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	933	934	933	928	906	917	926	933	932	933	933	930	929	928	929	931	935	937	937	938	938	941	938	930	931
2	897	888	916	927	917	912	925	931	933	930	931	929	929	937	943	945	949	944	945	949	950	935	932	935	930
3 q	935	934	926	924	928	930	931	933	933	935	935	934	931	933	933	934	933	935	935	937	938	938	936	935	933
4	934	932	929	933	923	924	923	932	930	957	939	939	959	965	959	962	971	963	962	970	958	938	916	900	942
5	915	924	931	930	929	934	935	936	938	940	938	936	937	936	942	954	964	968	995	969	956	943	944	927	*943*
6	913	885	888	906	899	916	929	933	932	936	941	940	945	948	954	958	960	960	968	919	906	927	897	908	928
7 d	898	908	858	862	901	921	924	934	934	937	940	944	956	965	1001	1055	1017	982	964	949	950	944	939	876	940
8	887	907	927	939	929	938	936	938	943	944	946	946	961	956	952	946	954	970	986	932	946	942	929	924	941
9	915	833	886	891	904	903	907	919	925	931	934	949	956	955	970	981	991	991	978	935	926	915	912	845	927
10 d	850	901	916	869	859	889	911	932	949	936	944	967	1002	988	1018	1028	979	976	948	953	944	900	870	863	933
11	884	922	931	936	926	930	942	939	938	941	954	948	936	940	945	949	949	948	979	990	957	942	939	929	941
12	907	880	896	918	909	908	910	925	930	935	935	935	938	938	945	1009	1013	1005	987	957	911	912	869	879	931
13	856	875	849	873	911	925	932	933	930	931	932	933	940	970	977	977	977	957	946	947	948	945	939	938	931
14	936	917	912	908	924	913	921	924	924	934	939	940	940	939	947	945	949	954	956	955	946	940	939	938	935
15 q	935	935	939	939	939	938	935	941	944	944	943	938	937	937	938	939	940	944	944	947	949	940	940	939	940
16	914	906	920	908	884	906	926	937	939	939	940	941	944	939	948	954	960	966	954	949	948	946	944	941	936
17 q	939	940	940	940	940	941	943	944	945	944	941	938	934	933	937	940	942	943	941	943	943	944	941	942	941
18	939	940	939	938	938	938	938	940	940	938	935	931	928	928	931	935	937	941	956	976	1006	926	871	782	932
19 d	670	679	654	718	839	900	924	936	937	940	944	950	944	946	958	950	944	944	946	958	960	918	884	832	*886*
20	850	912	927	938	939	939	941	945	946	945	945	947	947	944	944	948	947	944	951	956	953	948	944	934	939
21	930	937	938	939	926	921	932	938	940	942	944	944	944	943	941	944	949	953	957	974	972	957	937	907	942
22	932	937	931	875	886	913	920	921	930	939	937	935	933	934	934	935	934	942	950	946	942	942	942	940	930
23	936	942	941	940	939	939	935	936	939	940	940	942	940	941	947	949	957	960	979	961	950	931	904	932	943
24 q	937	940	941	943	941	939	941	940	939	941	939	937	939	939	943	951	949	946	944	939	939	936	936	937	941
25	936	937	941	942	941	940	935	936	934	929	930	931	932	933	936	938	942	956	983	977	971	962	906	895	940
26 d	888	906	907	880	844	889	907	908	901	901	915	917	957	943	939	938	942	942	940	940	940	939	940	912	918
27 d	810	681	758	684	675	759	848	899	930	965	988	962	958	954	952	971	982	972	965	954	918	914	922	913	889
28	910	922	932	939	942	940	940	942	942	946	940	940	940	939	941	959	970	979	981	974	942	925	881	868	939
29	828	757	797	871	898	830	819	859	898	908	932	935	930	938	954	964	981	990	990	956	938	946	939	930	908
30	904	836	841	896	908	913	927	935	934	936	937	936	938	948	952	959	956	967	965	955	952	944	913	846	925
31	851	890	904	916	917	913	923	930	939	944	944	944	941	941	944	942	941	940	940	941	942	949	939	913	929
Mean	896	*892*	898	902	905	913	922	930	934	937	940	940	943	944	950	958	959	959	*960*	953	946	936	922	906	931

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3'$; V, Nil.

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

15 LERWICK — MARCH 1944

	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 11° +		Minimum 11° +		Range	Maximum 46,000γ +		Minimum 46,000γ +		Range				
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ				°A.
1 q	20 41	401	378	3 25	*23*	13 28	46·1	33·8	24 0	12·3	21 14	941	904	4 40	37	1,2,2,1,1,1,0,2	10	0	74·8
2	20 26	432	363	20 1	69	13 34	49·4	14·9	20 18	34·5	20 12	970	874	0 52	96	3,2,0,1,2,2,4,2	16	1	74·8
3 q	23 4	397	373	2 48	24	12 6	46·7	37·1	4 30	9·6	21 55	941	921	2 13	20	2,2,1,1,1,1,0,1	9	0	74·2
4	22 10	413	285	9 36	128	10 5	59·2	28·3	22 5	30·9	16 33	981	895	23 20	86	1,2,3,4,3,3,3,3	22	1	74·1
5	17 11	412	360	15 16	52	17 35	50·6	34·9	23 14	15·7	18 35	1011	902	0 0	109	2,1,0,2,2,3,3,2	15	1	74·0
6	19 18	*457*	329	10 4	128	3 45	54·0	14·6	19 15	39·4	18 30	980	864	1 52	116	3,4,2,3,3,2,4,3	24	1	74·4
7 d	15 0	452	253	2 36	199	14 28	52·1	12·6	15 21	39·5	16 5	*1069*	813	2 47	256	4,4,2,2,4,4,2,4	26	1	75·7
8	19 6	442	362	12 24	80	12 14	50·5	11·5	18 59	39·0	18 7	1012	878	0 0	134	3,2,1,2,3,3,5,3	22	1	76·2
9	18 56	440	317	12 43	123	1 2	56·4	24·3	18 50	32·1	15 46	1001	813	1 58	188	4,3,2,3,3,3,3,4	25	1	76·5
10 d	15 23	452	313	12 12	139	13 43	53·8	12·3	18 16	41·5	15 14	1052	820	0 0	232	4,3,3,3,4,4,4,4	25	1	77·1
11	17 58	413	328	10 8	85	5 35	47·7	21·1	19 31	26·6	18 46	1009	858	0 0	151	3,2,2,2,2,2,4,2	19	1	77·1
12	21 52	450	330	15 29	120	20 10	52·8	20·4	19 23	32·4	15 36	1032	861	22 18	171	3,3,2,3,3,4,4,4	26	1	77·2
13	15 11	429	316	2 31	113	2 19	52·9	27·8	16 44	25·1	14 44	995	826	2 43	169	3,4,2,2,3,4,2,1	21	1	77·0
14	19 21	412	345	7 24	67	11 53	47·6	20·4	19 6	27·2	19 2	970	898	3 3	72	2,3,3,2,2,2,4,1	19	1	76·2
15 q	21 4	393	351	12 9	42	21 33	49·4	32·9	21 7	16·5	21 27	956	922	21 52	34	0,2,1,1,1,0,2,3	10	0	76·0
16	5 41	394	341	12 27	53	12 11	49·6	35·5	2 41	14·1	17 12	972	875	4 40	97	2,3,2,2,2,2,1,0	14	0	76·0
17 q	21 42	394	349	11 31	45	13 32	47·7	38·6	8 43	*9·1*	19 45	946	932	13 27	*14*	1,0,0,1,0,0,0,0	2	0	76·3
18	20 6	436	110	23 50	326	13 31	48·9	12·4	22 58	36·5	20 39	1025	640	23 59	385	0,0,1,1,1,2,3,6	14	1	77·4
19 d	13 32	409	-247	2 9	656	14 7	*50·6*	*−4·0*	1 49	54·6	20 24	970	555	2 38	415	7,6,2,2,3,1,4,5	30	2	77·6
20	17 50	391	324	0 0	67	13 16	48·4	31·2	0 7	17·2	18 52	960	801	0 0	159	4,0,2,2,0,1,2,2	13	0	77·0
21	23 0	422	355	10 23	67	14 4	47·4	27·0	22 50	20·4	19 46	979	900	23 17	79	1,2,1,0,0,1,2,3	10	0	76·7
22	17 56	417	323	3 5	94	13 11	56·6	33·0	4 18	23·6	18 24	954	858	3 45	96	3,3,2,2,2,2,2,1	17	1	76·6
23	21 49	432	344	11 0	88	13 42	48·1	27·1	18 54	21·0	18 43	995	892	22 12	103	1,1,1,0,1,1,3,3	11	1	76·7
24 q	20 14	394	355	11 3	39	13 26	49·4	37·3	8 12	12·1	15 18	953	934	0 0	19	0,0,0,1,1,1,0,0	3	0	77·0
25	16 19	416	355	10 33	61	17 36	50·6	32·3	22 50	18·3	18 51	994	872	22 54	122	0,0,1,1,1,2,3,4	12	1	77·0
26 d	13 45	427	152	23 58	275	13 47	55·7	28·3	4 5	27·4	12 43	979	795	24 0	184	3,4,3,3,4,2,1,6	26	1	78·0
27 d	18 11	441	*-360*	1 4	*801*	0 51	*69·3*	1·4	3 55	*67·9*	10 34	1000	*499*	1 3	*501*	8,7,5,4,3,3,4,2	36	2	79·0
28	16 39	407	281	23 51	126	14 46	47·8	17·5	24 0	30·3	18 0	983	848	23 35	135	2,1,1,2,2,2,3,4	17	1	79·5
29	16 30	437	218	0 0	219	6 17	54·7	8·1	2 7	46·6	18 18	996	735	1 28	261	5,4,4,2,2,2,3,3	25	1	79·1
30	22 45	444	307	1 59	137	13 33	48·7	28·0	17 33	20·7	17 55	972	814	2 7	158	4,2,2,2,2,3,3,4	22	1	78·5
31	22 10	402	336	0 7	66	12 32	50·1	28·9	0 19	21·2	21 15	953	829	0 0	124	4,2,2,1,2,0,1,3	15	1	78·0
Mean	— —	421	276	— —	146	— —	51·4	23·5	— —	27·8	— —	986	833	— —	152	2·2	17·9	0·81	76·6

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.

16 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — APRIL 1944

	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	369	384	381	385	386	385	382	375	368	362	362	366	375	383	390	388	395	396	401	394	379	356	386	398	381
2 d	323	300	361	374	398	404	331	67	42	108	148	389	355	366	338	325	344	352	465	420	386	382	340	350	*320*
3	321	284	250	287	285	353	369	363	358	360	359	356	351	360	365	374	382	383	405	385	389	392	386	370	354
4 d	377	391	382	382	381	377	345	364	369	356	334	334	353	369	396	409	395	404	393	386	390	388	397	383	377
5 d	380	382	375	356	371	385	386	386	375	355	361	342	365	382	383	403	420	398	408	394	382	382	378	380	380
6 d	342	347	361	374	386	392	387	351	322	323	318	339	366	368	381	394	384	426	404	408	387	377	374	382	371
7	390	378	323	380	386	388	389	383	357	354	358	356	353	364	378	390	390	408	420	408	313	308	334	309	367
8	347	365	365	379	381	387	386	383	377	365	365	365	360	355	374	383	389	387	395	400	408	390	395	392	379
9	392	390	386	387	386	382	383	378	369	357	352	353	365	382	389	395	395	395	408	403	398	378	392	386	383
10	389	392	397	387	334	384	395	373	334	338	352	351	370	374	383	404	395	396	397	395	399	396	398	386	380
11	387	377	356	387	391	394	390	387	380	371	370	368	370	368	374	387	407	390	413	395	395	408	388	355	384
12	348	307	366	393	392	391	382	383	378	372	368	368	373	375	383	387	394	400	398	399	392	391	393	395	380
13 q	392	390	391	391	390	390	390	386	379	371	365	362	365	373	379	384	386	390	394	395	395	395	395	395	385
14 q	393	394	394	392	394	396	399	395	388	376	366	362	364	374	377	385	387	391	398	399	398	397	396	395	388
15	394	396	392	392	394	396	395	391	381	369	362	358	361	379	398	397	416	416	420	429	418	328	376	406	390
16 d	400	403	320	355	397	391	369	334	321	314	319	317	381	402	414	439	465	468	387	383	382	390	381	386	380
17	374	375	356	361	377	382	383	375	365	351	345	339	344	368	381	386	377	392	396	389	387	386	385	371	373
18	353	352	375	384	384	385	382	380	371	362	359	359	364	372	370	377	387	398	397	395	390	389	394	391	378
19 q	391	386	383	385	384	384	382	378	371	365	361	362	368	383	391	383	386	393	395	398	395	395	394	394	384
20	390	390	385	382	390	386	386	384	374	368	360	362	372	386	392	397	404	401	394	395	395	394	394	394	386
21	394	393	394	393	391	389	388	382	370	363	361	365	367	364	386	398	397	402	404	402	401	401	399	398	388
22 q	395	395	395	394	392	391	390	385	375	362	356	358	363	371	379	385	396	408	401	401	400	399	399	398	387
23 q	398	397	397	398	398	398	396	386	377	368	361	361	364	376	382	388	394	403	403	404	402	400	399	399	390
24	398	411	417	415	408	391	388	379	365	365	358	358	355	366	388	389	401	413	396	396	400	395	387	392	389
25	377	379	386	390	386	387	383	374	365	362	361	365	368	379	383	392	395	404	404	408	403	393	383	389	384
26	378	379	388	384	387	377	371	378	372	359	353	356	364	379	386	395	413	426	417	398	403	395	390	387	385
27	388	387	388	386	379	389	389	382	372	365	357	346	360	387	408	411	419	431	430	426	414	398	390	386	*391*
28	375	353	377	370	372	386	386	382	374	377	369	359	364	376	382	404	395	406	421	414	391	395	398	397	384
29	398	401	402	401	383	394	397	379	374	371	372	372	379	370	365	393	399	408	407	404	404	400	400	398	390
30	397	391	394	392	388	358	369	365	338	348	373	370	370	370	379	390	394	394	404	407	404	402	398	400	383
Mean	378	376	375	381	382	386	382	367	355	351	*350*	357	364	374	382	391	397	403	*406*	401	393	387	387	385	380

Corrections to be applied to all values: H, −6γ; D, −4·3′; V, +2γ.

MAGNETIC DECLINATION (WEST)

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

17 LERWICK (D) — 11° + — APRIL 1944

	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	38·0	43·5	42·0	38·7	38·2	38·8	38·7	38·4	38·1	39·8	41·7	44·3	47·7	48·6	47·5	46·5	45·7	45·3	43·2	28·7	25·2	29·6	39·9	38·0	40·3
2 d	26·8	31·2	20·3	20·7	30·5	34·1	40·6	56·9	47·3	35·2	44·7	43·9	55·9	55·5	46·0	43·9	43·6	44·2	42·9	26·8	36·6	40·6	38·5	38·6	39·4
3	39·9	44·8	44·8	41·2	40·5	38·8	40·0	37·9	38·2	38·8	40·1	42·8	45·8	46·6	46·7	45·3	43·6	42·1	40·6	37·6	40·5	40·0	37·6	43·9	41·6
4 d	43·6	38·8	39·7	39·4	37·9	40·8	45·7	43·6	38·8	39·8	39·8	37·6	44·5	47·5	44·1	40·5	41·9	37·5	37·6	37·7	38·0	39·8	41·0	39·7	40·6
5 d	42·5	37·8	39·9	42·9	42·7	46·8	39·8	38·6	36·1	36·7	37·9	41·5	44·8	47·0	46·9	43·8	42·8	43·7	27·9	32·8	38·6	35·8	36·7	31·1	39·8
6 d	40·0	46·6	43·4	42·9	41·6	39·4	40·7	43·0	41·1	39·2	40·5	43·7	46·8	45·9	44·5	44·8	42·9	34·2	35·6	29·1	36·7	35·8	39·1	41·0	40·8
7	39·4	40·6	49·5	40·1	38·6	38·7	38·6	38·5	39·1	39·8	40·6	43·5	45·2	46·0	46·3	45·5	44·8	43·0	38·7	29·3	37·8	27·6	22·0	39·9	39·7
8	47·4	39·9	38·7	39·5	38·9	39·6	38·6	36·9	37·0	39·2	40·0	43·7	47·6	45·0	45·3	44·6	42·9	41·9	39·8	32·6	32·7	39·7	39·0	40·8	40·5
9	40·6	40·5	40·2	40·3	39·5	39·9	39·6	38·3	38·7	39·6	42·5	45·6	47·9	48·7	46·9	45·3	44·1	43·1	43·1	41·4	36·9	32·8	23·2	30·3	40·4
10	39·7	37·1	41·1	37·3	42·0	49·6	40·4	40·7	41·0	45·5	45·6	45·5	46·8	50·1	46·1	44·8	38·0	44·1	43·3	42·2	42·1	42·1	39·9	40·6	42·7
11	43·5	39·8	40·7	38·1	38·2	38·3	38·2	38·3	38·7	41·0	41·1	42·1	44·7	44·8	45·1	44·3	44·3	37·7	37·4	41·2	40·8	33·6	37·5	36·4	40·2
12	33·7	48·7	42·4	34·9	35·6	36·0	37·8	38·2	39·9	40·0	41·6	43·3	45·3	45·4	45·0	42·9	42·2	42·3	40·8	40·8	41·4	41·5	41·2	40·6	40·9
13 q	40·3	40·4	39·2	38·3	38·3	38·5	38·3	37·8	37·6	38·3	39·8	41·9	43·8	44·6	44·3	43·2	42·5	41·7	41·3	41·8	41·8	41·7	41·3	41·0	40·7
14 q	40·3	40·1	39·7	39·0	38·5	38·4	37·8	37·2	36·5	37·7	39·1	40·6	43·4	45·4	45·2	43·8	43·0	42·2	41·5	41·8	41·8	41·7	41·6	41·0	40·7
15	43·9	41·9	40·1	39·0	38·0	37·8	37·2	36·1	36·3	38·1	41·1	45·0	47·8	49·6	50·6	49·9	48·6	48·2	46·9	45·7	43·4	41·6	44·4	39·2	*42·9*
16 d	40·1	40·6	50·2	38·0	41·6	41·8	45·7	45·9	43·9	41·3	43·2	47·6	44·3	50·1	49·6	48·6	47·2	31·5	44·5	39·7	41·2	41·2	37·4	33·1	42·8
17	37·1	37·7	40·9	43·5	36·7	35·7	36·4	37·0	37·9	39·0	41·9	44·6	46·3	48·2	48·3	46·8	43·4	43·3	42·6	42·3	40·0	39·3	38·9	36·8	41·0
18	33·4	42·3	37·9	37·4	35·8	35·5	35·7	36·7	37·4	39·7	42·7	44·2	45·6	46·9	45·7	44·6	43·2	41·9	41·4	40·8	39·6	39·1	41·9	38·7	40·3
19 q	37·6	37·4	38·6	38·8	37·4	36·4	36·5	35·7	37·0	40·1	41·8	44·3	45·2	46·4	45·7	44·6	43·0	42·1	41·7	41·9	39·6	38·8	40·6	40·6	40·5
20	41·8	40·9	37·8	39·3	36·7	34·4	35·6	35·9	37·7	39·4	42·3	44·5	46·4	47·1	46·1	45·2	45·0	43·2	41·2	40·6	40·4	40·5	40·9	41·1	41·0
21	41·3	41·4	41·4	39·4	38·5	37·0	36·4	36·8	38·9	41·1	42·8	45·2	47·7	47·8	44·8	44·3	42·6	42·2	41·2	40·7	41·0	41·2	41·1	41·2	41·5
22 q	41·0	40·9	40·4	40·2	39·5	38·2	37·2	37·1	37·5	39·9	41·9	44·2	46·5	47·2	45·7	43·5	42·0	41·0	40·7	40·5	40·6	40·7	40·7	40·4	41·1
23 q	40·2	39·9	39·7	39·4	38·5	37·7	36·8	36·5	36·5	37·4	38·8	40·5	43·1	45·5	45·7	44·5	42·9	41·9	41·3	41·2	40·7	40·8	40·2	40·2	40·4
24	40·3	39·9	38·5	37·1	36·0	37·1	35·6	36·4	37·6	37·8	40·5	44·6	46·3	45·7	47·3	45·6	44·7	42·9	43·6	42·8	39·8	36·8	38·7	39·8	40·6
25	37·5	33·5	35·7	35·1	36·9	36·9	36·0	35·8	36·8	37·8	39·4	42·0	44·1	45·6	45·3	44·8	44·3	44·2	40·3	40·6	40·5	39·1	35·8	30·7	*39·1*
26	35·5	32·8	34·5	35·6	36·5	35·6	39·5	38·2	36·2	38·3	40·1	44·0	46·5	47·1	46·4	44·6	44·5	39·3	37·7	42·0	42·6	37·2	33·1	33·1	39·2
27	35·3	39·0	37·1	37·6	37·4	38·3	35·8	34·6	35·6	37·3	41·5	45·9	49·5	49·5	48·9	48·4	48·2	42·5	45·9	43·1	37·8	38·0	37·8	37·4	40·9
28	35·4	35·4	38·1	37·7	37·3	35·9	35·1	35·4	35·2	38·2	40·0	43·4	45·6	48·3	49·3	48·5	47·3	46·1	44·9	34·4	40·8	42·3	41·4	41·9	40·7
29	41·1	41·0	40·4	38·6	39·2	40·9	38·1	39·3	39·7	40·1	41·9	45·1	47·8	48·3	47·9	44·8	44·1	44·8	42·7	38·8	41·4	40·4	40·7	41·2	42·0
30	41·4	42·7	38·6	37·3	34·6	37·7	39·0	41·7	40·8	42·7	40·9	43·7	43·5	43·1	41·9	42·4	42·3	43·2	41·8	42·2	42·0	42·0	41·6	41·2	41·2
Mean	39·3	39·9	39·7	38·2	*38·1*	38·5	38·4	38·8	38·4	39·3	41·2	43·6	46·2	*47·3*	46·3	45·0	43·9	42·0	41·1	38·7	39·4	38·7	38·5	38·7	40·8

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

18 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — APRIL 1944

	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	910	909	910	929	935	939	941	946	946	944	941	936	934	936	940	941	945	949	960	983	947	931	897	839	933
2 d	841	760	731	772	844	883	904	919	831	958	1031	969	954	947	977	978	967	977	988	1010	976	966	886	851	*913*
3	900	861	875	873	903	911	931	943	946	956	956	951	951	954	960	961	963	965	962	974	957	950	927	860	933
4 d	872	896	931	937	941	938	926	928	940	947	957	978	967	960	965	979	983	997	983	973	965	955	926	940	949
5 d	910	908	936	916	919	922	935	941	947	955	953	953	945	945	956	971	993	995	982	972	966	935	861	870	941
6 d	888	879	893	922	921	935	935	945	948	960	981	961	947	963	963	972	978	982	967	951	947	937	917	886	941
7	908	929	825	883	921	935	940	944	950	955	952	950	951	951	955	955	962	956	988	999	879	814	849	854	925
8	831	881	919	935	941	945	947	945	942	941	943	943	953	966	958	958	962	965	961	963	935	909	915	934	937
9	940	943	949	948	949	948	948	949	948	950	948	943	938	938	941	946	950	950	947	952	952	937	881	883	941
10	878	881	906	918	897	860	869	906	925	928	929	945	952	956	967	969	977	959	953	957	953	950	944	927	929
11	875	872	905	926	941	942	946	948	946	945	946	944	942	941	945	948	960	997	986	975	960	919	904	883	937
12	851	805	825	893	924	931	940	940	941	943	944	943	940	941	943	946	948	951	955	950	949	946	941	939	926
13 q	941	942	944	946	947	947	947	947	945	944	943	936	935	937	940	941	945	946	947	945	944	943	941	940	943
14 q	941	941	941	943	944	944	944	941	937	937	939	935	931	931	935	937	941	946	946	946	946	944	943	939	941
15	935	925	936	939	941	941	941	941	943	942	940	938	935	930	931	932	935	943	949	947	960	870	862	911	932
16 d	940	938	867	808	860	891	902	913	928	953	984	997	1017	1024	1049	1058	1063	1041	1026	1005	988	966	946	914	*962*
17	931	935	934	900	916	925	934	940	944	947	948	945	936	935	945	953	954	946	949	954	956	956	944	917	939
18	917	896	881	920	931	932	935	935	937	940	939	940	937	939	941	944	946	949	951	950	949	946	938	920	934
19 q	918	927	936	941	942	941	941	942	943	943	943	941	936	935	943	950	953	950	948	946	946	941	941	940	941
20	940	930	935	936	934	935	933	931	932	934	937	934	932	934	938	940	947	951	953	951	948	946	943	942	939
21	943	943	941	941	945	943	941	938	936	937	936	936	939	936	934	936	940	939	940	940	938	937	937	938	939
22 q	941	943	944	945	944	943	941	939	937	935	934	930	929	936	942	943	943	943	943	939	937	937	937	938	939
23 q	941	942	945	945	946	945	943	941	941	939	937	935	934	935	938	942	945	944	944	940	939	938	937	938	941
24	939	935	937	939	938	935	921	919	920	918	922	923	926	927	934	941	941	957	963	952	944	923	927	910	933
25	857	873	915	930	937	937	938	939	938	937	938	937	935	935	940	939	944	948	960	960	952	944	945	925	933
26	898	909	925	932	936	939	927	925	927	929	931	928	927	927	934	941	944	965	986	970	952	952	940	913	936
27	913	915	924	928	927	928	935	936	933	929	927	926	918	920	930	940	961	990	990	1010	959	943	926	888	937
28	909	897	894	913	908	916	927	931	933	931	929	929	927	931	937	947	966	969	974	976	970	950	946	937	935
29	936	936	937	937	936	921	920	931	932	937	931	931	933	944	947	947	946	943	953	956	947	942	941	937	938
30	932	929	933	936	932	926	907	916	932	942	941	942	941	942	945	946	946	946	956	950	950	946	945	899	937
Mean	909	*906*	909	918	927	929	931	935	935	942	946	943	941	943	949	953	958	962	*964*	963	950	936	923	910	937

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3'$; V, $+2\gamma$.

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

19 LERWICK — APRIL 1944

	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 11° +	Minimum 11° +	Range	Maximum 46,000γ +		Minimum 46,000γ +		Range			
	h. m.	γ	γ	h. m.	γ	h. m.	′	′ h. m.	′	h. m.	γ	γ	h. m.	γ					°A.
1	22 45	430	347	21 12	83	13 40	50·5	15·4 19 50	35·1	19 47	993	825	22 55	168	3,1,0,2,1,1,4,4	16	1	77·8
2 d	18 45	*570*	*-96*	8 16	*666*	7 58	*81·9*	*8·3* 2 45	*73·6*	10 12	1088	*704*	2 4	384	5,5,7,7,4,3,5,5	41	2	77·6
3	18 33	434	196	2 34	238	1 6	51·1	31·7 0 9	19·4	19 19	983	830	1 25	153	5,4,3,1,2,1,3,4	23	1	77·6
4 d	17 25	437	297	10 54	140	13 32	49·1	27·2 17 25	21·9	17 21	1014	871	0 38	143	3,2,3,3,3,3,2,3	22	1	77·1
5 d	16 17	442	322	11 11	120	5 31	50·6	14·4 18 36	36·2	17 4	1005	840	22 45	165	3,3,2,3,2,3,4,4	24	1	77·0
6 d	17 36	471	297	10 15	174	1 20	50·7	14·1 17 34	36·6	17 27	1002	872	1 14	130	3,2,3,3,3,4,4,3	25	1	77·2
7	17 59	443	175	21 2	268	2 15	58·4	15·7 22 42	42·7	19 3	1031	734	20 58	297	5,4,2,2,2,3,6,5	29	1	78·0
8	20 32	447	312	12 57	135	12 45	49·6	19·1 20 31	30·5	13 3	975	815	0 28	160	4,2,1,2,4,2,4,3	22	1	78·1
9	22 37	422	348	11 23	74	13 26	49·4	8·9 22 24	40·5	20 46	957	868	22 41	89	1,1,0,1,1,2,3,4	13	1	78·6
10	15 14	429	314	4 19	115	5 36	54·5	29·2 0 13	25·3	16 17	982	849	1 2	133	4,4,4,3,3,3,1,3	25	1	79·0
11	21 22	434	344	23 42	90	0 0	48·7	20·1 21 20	28·6	17 34	1008	861	24 0	147	3,2,2,2,2,3,3,4	21	1	79·1
12	17 51	406	288	1 18	118	1 46	53·7	30·7 0 32	23·0	18 28	956	794	1 41	162	4,3,2,1,2,1,1,0	14	0	80·2
13 q	21 7	399	361	11 5	*38*	13 46	44·9	36·9 3 45	*8·0*	18 8	948	934	11 48	14	0,1,0,0,0,0,0,0	1	0	79·3
14 q	19 6	400	361	12 1	39	13 15	45·8	36·1 8 22	9·7	17 56	947	929	13 18	18	0,0,0,1,1,1,0,0	3	0	79·3
15	17 4	435	151	21 30	284	14 49	53·1	33·9 21 34	19·2	20 46	969	799	21 57	170	2,0,0,0,2,3,2,6	15	1	79·3
16 d	17 0	567	229	2 51	338	2 35	70·4	10·1 17 12	60·3	16 57	*1133*	*704*	2 54	*429*	5,5,3,3,3,5,3,3	30	1	79·4
17	18 24	403	332	2 52	71	3 3	50·6	33·3 24 0	17·3	16 15	958	891	3 26	67	3,3,1,0,2,1,1,3	14	0	79·8
18	17 44	407	338	1 25	69	1 37	49·5	30·8 0 19	18·7	18 43	954	846	2 2	108	3,2,1,0,0,2,1,2	11	0	79·6
19 q	21 8	401	356	10 28	45	13 47	46·9	35·2 1 12	11·7	16 26	954	916	0 31	38	2,0,1,0,1,1,2,2	9	0	79·3
20	16 20	408	358	10 43	50	13 32	47·4	34·0 5 40	13·4	17 59	957	928	1 37	29	2,2,2,0,1,2,0,0	9	0	79·0
21	15 36	407	352	13 10	55	12 53	50·7	36·2 6 13	14·5	4 10	944	933	13 45	*11*	0,1,1,2,2,2,0,0	8	0	79·9
22 q	17 24	411	353	10 39	58	13 10	47·5	36·6 7 26	10·9	17 52	946	928	11 56	18	0,0,0,0,1,1,0,0	2	0	80·0
23 q	17 52	405	358	10 56	47	14 8	46·7	36·0 6 49	10·7	16 41	946	932	12 38	14	0,0,0,0,1,0,0,0	1	0	80·1
24	17 38	421	338	12 21	83	14 39	48·7	30·8 7 24	17·9	17 50	968	890	24 0	78	2,2,2,1,3,2,2,2	16	1	80·1
25	17 56	416	361	9 37	55	13 40	46·3	27·2 22 59	19·1	18 59	967	837	0 47	130	4,1,1,1,1,1,2,3	14	0	80·5
26	17 44	433	348	10 38	85	13 45	47·5	26·4 22 57	21·1	18 20	993	879	0 53	114	3,2,2,0,1,2,3,3	16	0	80·5
27	20 18	445	330	11 31	115	12 36	50·3	25·9 20 2	24·4	19 46	1022	870	23 5	152	2,2,1,2,3,3,4,3	20	1	81·0
28	18 54	433	345	1 4	88	13 52	50·2	29·4 19 21	20·8	19 17	982	880	1 55	102	3,2,1,2,2,2,3,2	17	1	81·0
29	17 31	423	352	13 46	71	13 24	49·2	35·6 19 12	13·6	19 9	961	911	5 48	50	0,2,2,2,3,2,2,1	14	1	80·9
30	17 20	438	310	8 48	128	1 10	47·3	33·1 5 0	14·2	18 33	958	853	24 0	105	3,3,3,3,2,3,1,4	22	1	80·6
Mean	— —	434	303	— —	131	— —	51·4	26·7 — —	24·6	— —	983	857	— —	126	2·1	16·6	0·63	79·2

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.

20 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — MAY 1944

	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	386	384	393	395	390	379	383	383	365	352	354	358	374	399	576	555	578	454	426	409	397	399	357	321	*407*
2 d	349	335	357	377	370	299	335	374	373	365	352	344	374	416	391	414	397	401	405	404	405	394	387	391	*375*
3	387	389	377	375	369	374	379	373	368	364	356	358	377	358	374	383	397	400	401	395	392	392	388	393	380
4 d	392	392	390	386	389	387	383	378	372	362	366	348	345	365	373	414	383	439	430	415	398	384	399	381	386
5	380	383	365	389	390	386	381	379	367	361	354	357	377	392	399	378	390	431	412	418	405	399	395	396	387
6 d	379	369	387	388	379	377	381	391	362	358	358	343	366	388	395	390	411	439	453	413	400	400	395	390	388
7	386	386	374	369	366	372	351	329	363	362	364	357	372	382	394	400	414	430	417	414	408	399	408	390	384
8	368	340	363	383	374	373	373	364	343	353	362	364	372	379	386	391	401	402	404	397	392	392	386	390	377
9	390	389	387	384	387	388	386	382	374	367	365	364	371	374	380	391	403	416	422	411	403	396	392	392	388
10	390	383	378	390	393	391	386	382	375	365	359	361	370	385	388	396	407	413	409	411	409	405	395	395	389
11	395	390	392	391	389	389	383	379	372	367	365	367	372	381	392	400	409	416	415	418	415	410	382	402	391
12	401	396	394	394	393	387	382	376	371	367	365	367	366	379	386	392	411	414	424	420	409	406	416	402	392
13 q	396	393	393	395	395	392	389	382	372	364	361	361	366	374	382	391	396	405	413	408	406	404	400	404	389
14	403	401	402	403	400	390	386	386	381	369	362	356	358	368	377	390	397	405	406	409	401	400	395	394	389
15	391	387	387	392	399	393	386	387	381	367	367	362	357	365	380	389	396	403	404	399	395	392	392	392	386
16 q	393	391	389	388	391	390	387	381	375	367	364	365	370	377	379	387	392	402	408	407	404	398	396	393	387
17	391	390	395	395	395	391	384	383	377	371	373	377	383	392	388	395	404	409	408	408	410	408	402	402	393
18 q	395	390	387	391	392	391	386	375	365	362	364	377	386	389	391	392	396	402	410	416	417	414	410	403	392
19	403	402	403	395	394	390	404	377	370	365	368	373	383	383	387	401	410	413	417	414	408	404	404	399	394
20 q	398	400	399	399	396	395	386	379	369	360	361	367	375	381	389	400	408	408	408	408	405	404	404	403	392
21 q	404	402	404	404	404	401	394	390	383	374	366	366	371	374	386	390	395	404	411	407	408	404	407	400	394
22	395	395	398	399	399	396	391	385	375	365	365	365	376	387	395	394	409	417	414	415	415	412	407	407	395
23	404	402	398	388	383	394	391	378	368	357	358	365	378	385	408	401	395	396	403	401	406	404	404	400	390
24	405	396	398	401	394	386	370	361	356	351	367	377	386	386	395	403	407	404	420	416	411	386	377	389	389
25	395	391	387	380	367	378	386	381	375	369	359	356	367	380	380	388	404	417	413	421	413	408	406	404	389
26	403	396	384	390	395	390	386	379	367	359	357	368	380	383	395	403	408	404	408	404	404	401	399	399	390
27	398	399	404	403	393	370	385	392	382	372	380	372	376	386	388	400	408	416	413	408	402	400	396	394	393
28	394	394	396	395	395	393	390	386	381	375	374	377	383	391	392	400	411	417	414	416	409	409	404	388	395
29 d	376	383	391	393	398	401	390	380	375	361	357	362	373	384	382	414	440	446	422	423	424	422	365	223	387
30	346	370	380	384	386	391	387	370	365	365	365	355	371	385	388	408	403	408	409	407	401	392	393	390	384
31	391	394	392	391	388	385	377	383	377	372	374	380	386	385	396	438	438	452	413	414	408	400	383	389	396
Mean	390	387	389	391	389	384	383	378	371	364	*363*	364	373	382	394	403	410	*416*	414	411	406	401	395	388	389

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3'$; V, $+3\gamma$.

MAGNETIC DECLINATION (WEST)

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

21 LERWICK (D) — 11° + — MAY 1944

	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	36·6	38·7	35·6	34·4	34·4	34·4	38·6	39·2	39·0	42·2	46·4	47·6	47·6	52·4	47·5	46·8	52·7	40·4	46·1	32·6	38·8	38·9	29·9	34·4	40·6
2 d	39·5	46·7	41·7	38·3	37·8	45·8	48·3	41·1	39·6	39·9	43·4	43·7	44·8	41·5	45·6	46·7	41·4	41·6	44·1	42·6	39·7	41·6	39·6	42·6	*42·4*
3	42·6	40·9	43·3	43·7	42·4	41·1	36·4	35·7	37·0	39·3	43·2	44·9	45·9	45·8	45·3	43·3	41·6	41·6	41·2	41·4	40·7	39·3	40·6	40·8	41·6
4 d	40·6	40·4	39·0	37·9	37·1	36·9	37·0	36·2	36·9	39·2	42·1	45·0	49·1	47·8	47·4	46·6	47·3	48·2	42·7	39·9	31·1	33·6	39·8	41·2	41·0
5	42·3	41·6	34·3	35·4	34·3	35·4	37·6	37·3	37·2	38·3	41·3	41·8	43·6	42·7	38·7	44·1	44·7	45·6	40·1	41·0	39·7	41·7	41·4	40·5	40·0
6 d	49·1	40·7	36·8	35·5	35·2	34·9	35·5	36·4	38·8	42·0	43·7	44·3	44·0	45·5	43·9	38·4	42·7	41·3	36·7	39·4	42·1	40·7	41·4	39·6	40·4
7	41·5	39·7	41·1	40·8	38·5	39·5	45·2	46·5	44·3	42·4	43·1	45·5	45·6	44·9	44·0	40·1	38·1	38·6	43·0	41·5	42·3	35·4	39·2	41·0	41·7
8	42·7	45·3	44·1	38·3	34·5	36·3	35·5	36·1	37·1	39·8	42·5	45·5	46·8	45·9	44·1	43·0	42·5	42·4	41·4	40·4	38·4	36·9	41·3	40·9	40·9
9	39·9	39·7	39·6	39·2	37·8	37·2	37·0	36·4	37·3	39·3	41·9	44·4	46·5	47·0	46·0	45·0	44·4	43·3	42·0	35·5	37·2	39·4	40·2	40·5	40·7
10	39·3	38·3	42·9	39·4	37·4	36·8	35·8	35·5	36·2	37·9	41·2	44·1	45·4	45·5	45·7	45·4	43·9	43·0	42·8	42·5	41·9	40·7	36·7	41·5	40·8
11	35·5	36·5	37·3	38·1	37·7	35·8	34·6	35·6	37·5	40·3	41·4	43·9	46·0	46·5	45·3	45·1	45·0	45·0	44·4	43·4	43·1	40·3	38·9	39·7	40·7
12	41·3	39·0	35·7	35·4	35·5	35·4	36·2	37·2	37·8	38·4	40·4	42·9	45·3	45·8	46·0	45·5	45·6	45·3	42·3	40·5	43·3	41·6	37·8	39·1	40·6
13 q	38·7	38·6	37·8	37·6	37·2	36·8	36·7	36·8	37·6	39·3	40·7	43·2	45·5	46·2	46·4	46·3	45·7	45·0	44·2	43·1	42·3	39·6	41·0	41·8	41·2
14	40·8	40·0	39·7	38·9	36·1	36·3	36·0	36·3	36·7	38·0	39·0	41·1	43·0	43·5	44·3	44·4	42·7	41·4	41·0	41·2	41·0	40·1	40·7	39·9	40·1
15	43·0	37·6	33·2	34·4	31·3	33·4	36·8	37·7	38·0	39·2	41·4	45·2	46·1	46·3	45·4	44·3	43·0	41·5	40·5	39·9	39·9	40·2	40·0	40·1	39·9
16 q	40·2	40·1	39·9	39·2	38·3	36·6	36·0	35·8	36·6	39·1	41·1	44·0	45·2	45·8	45·6	44·2	42·4	42·0	40·2	39·6	40·7	40·4	39·9	39·7	40·5
17	41·1	41·4	37·9	37·1	35·7	36·4	35·4	35·3	36·5	38·8	41·5	44·1	45·8	46·3	45·6	45·0	44·2	43·1	42·4	41·7	41·9	42·0	39·0	37·5	40·7
18 q	37·4	39·2	37·8	36·6	35·4	34·8	34·9	36·2	37·7	40·1	42·6	44·4	45·6	45·2	44·6	44·0	43·3	42·9	43·0	43·0	43·2	42·4	40·9	40·5	40·7
19	41·5	41·0	38·5	35·9	34·6	33·6	34·5	35·5	37·5	41·3	45·1	47·0	47·7	47·7	46·2	45·1	42·6	41·6	39·8	41·8	42·9	42·9	41·9	41·5	41·2
20 q	40·7	41·1	40·0	39·2	38·0	36·1	35·5	36·2	37·3	40·7	43·2	45·4	46·7	47·3	46·9	45·0	43·1	41·4	41·3	41·2	41·3	41·3	41·3	40·9	41·3
21 q	41·0	40·5	40·2	38·4	36·4	34·7	33·4	32·7	33·8	35·8	39·3	42·3	45·6	46·8	47·1	45·4	42·1	40·6	40·2	40·5	41·6	40·9	39·7	36·3	39·8
22	39·2	40·0	39·2	38·0	35·7	34·3	34·0	34·7	35·1	38·0	41·1	44·3	47·2	48·4	48·2	46·6	45·3	43·5	42·5	42·9	40·8	37·6	40·1	40·2	40·7
23	39·6	39·0	38·8	37·8	38·3	34·7	32·0	32·8	35·0	40·0	42·9	46·8	49·4	49·3	51·2	51·0	47·9	45·1	44·8	42·2	41·5	41·2	40·8	40·9	41·8
24	37·4	35·1	32·4	34·0	32·2	33·8	33·9	36·7	47·4	48·5	47·1	47·2	48·3	48·2	48·0	48·0	47·7	46·4	45·2	43·8	39·5	37·9	41·0	39·9	41·7
25	39·0	38·1	37·9	37·9	39·2	39·1	37·3	35·5	35·7	38·8	41·7	45·0	47·8	49·7	49·7	47·1	45·0	43·9	42·3	41·4	41·6	41·2	41·1	41·3	41·6
26	41·1	41·5	36·8	34·9	35·9	35·4	35·0	34·4	35·7	37·9	40·8	43·0	45·6	46·2	46·2	46·2	45·0	43·3	42·0	41·6	41·2	41·0	40·3	40·1	40·5
27	39·9	41·0	41·6	37·9	33·9	34·9	37·4	35·8	36·1	40·9	40·8	45·0	46·9	46·8	47·4	44·9	44·1	43·5	42·9	42·4	41·7	41·3	40·0	40·0	41·1
28	39·2	39·0	38·8	37·9	36·0	35·0	35·5	36·1	37·8	39·6	39·2	40·9	43·0	43·2	44·8	44·0	43·1	42·2	42·4	42·7	41·3	40·9	40·8	40·4	40·2
29 d	33·9	35·3	36·7	35·5	38·0	36·6	36·9	39·9	38·5	41·7	41·7	45·4	46·8	46·7	45·5	45·2	44·5	38·8	43·7	43·7	39·8	36·5	37·8	35·8	40·2
30	36·8	33·2	33·5	36·0	37·1	36·0	35·5	39·0	37·6	38·0	39·4	41·1	41·1	42·9	41·1	42·7	43·5	43·0	43·2	42·7	41·7	41·0	40·8	40·1	*39·5*
31	39·5	39·1	39·7	40·1	37·8	38·4	37·3	36·2	36·8	38·9	42·4	44·9	45·2	43·8	42·4	44·1	44·0	40·9	42·0	44·0	44·4	40·2	38·1	35·0	40·6
Mean	40·0	39·6	38·5	37·5	36·4	*36·3*	36·5	36·7	37·6	39·8	42·0	44·3	45·9	*46·2*	45·7	45·0	44·2	42·8	42·3	41·3	40·9	40·0	39·7	39·8	40·8

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

22 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — MAY 1944

	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	864	882	918	927	933	933	922	916	929	935	932	948	958	968	1064	1068	1115	1045	1005	1018	971	927	878	795	*952*
2 d	844	873	881	921	924	905	863	898	921	933	947	968	979	1006	973	961	976	968	959	956	951	930	928	917	933
3	916	927	928	914	922	921	933	938	941	937	938	937	943	963	958	959	955	943	942	943	944	946	943	941	939
4 d	943	943	943	944	942	941	940	941	939	940	937	941	937	937	943	952	963	958	1024	999	966	899	932	915	947
5	857	815	831	881	916	931	932	936	937	936	943	948	948	970	1008	981	953	955	981	971	959	952	951	934	934
6 d	893	842	882	918	932	939	939	938	936	932	936	953	952	952	971	977	964	969	959	959	955	942	928	924	937
7	935	939	939	929	926	940	930	916	910	926	937	943	942	949	964	983	992	984	974	959	926	931	936	936	944
8	909	923	888	913	925	937	940	942	943	939	937	937	937	943	948	948	951	951	951	952	949	944	941	936	937
9	941	944	947	947	948	945	944	942	937	931	930	926	925	928	934	940	942	945	951	964	960	948	937	925	941
10	931	936	937	937	945	947	945	942	941	940	937	932	924	927	935	936	937	942	945	944	943	942	944	930	938
11	917	929	936	937	942	941	941	937	932	926	924	922	922	924	929	934	936	937	940	940	940	938	941	937	933
12	925	907	913	928	936	939	941	936	932	926	926	923	925	925	927	930	933	943	949	948	946	943	925	910	931
13 q	924	931	934	936	938	938	940	940	936	932	932	931	928	924	926	934	936	937	940	944	943	941	938	935	935
14	935	935	936	938	939	939	936	932	929	930	930	928	925	922	927	936	941	942	942	941	944	944	939	934	935
15	912	885	910	917	914	915	920	921	926	923	923	921	922	922	925	932	937	941	944	944	943	941	939	938	926
16 q	937	936	936	937	934	937	938	942	939	935	931	929	930	931	933	934	937	939	942	945	944	943	941	937	937
17	931	921	925	929	934	936	937	936	934	927	925	922	922	925	927	927	927	932	937	938	937	937	940	928	931
18 q	921	922	930	934	936	934	935	937	934	922	918	915	920	926	932	935	936	936	934	934	934	936	936	937	931
19	938	937	936	938	938	937	933	932	930	922	916	916	920	928	932	936	942	943	943	941	938	937	937	938	934
20 q	939	938	940	940	938	937	936	936	935	930	924	922	923	926	933	937	940	942	938	934	932	933	933	935	934
21 q	938	938	939	942	942	942	937	933	929	932	932	929	927	924	926	937	944	945	943	940	936	937	931	926	935
22	932	935	940	943	940	938	938	935	932	927	923	923	920	923	932	939	939	944	949	943	938	924	932	933	934
23	934	937	938	937	928	913	915	920	919	917	918	917	922	927	929	942	950	948	943	943	942	937	932	925	931
24	896	882	912	924	928	928	933	935	924	926	923	922	923	927	938	951	963	963	959	965	964	944	895	888	930
25	926	937	939	942	937	923	929	936	935	929	928	925	927	933	943	945	944	948	954	955	956	949	942	959	939
26	916	886	892	917	932	937	937	938	933	926	927	927	928	928	931	936	944	949	948	944	944	940	937	936	931
27	936	932	926	917	927	931	920	927	927	930	928	932	932	938	943	947	952	952	953	949	946	943	942	938	936
28	938	938	938	941	942	942	939	939	936	927	923	924	927	936	939	942	944	947	948	943	947	939	936	924	937
29 d	865	887	911	919	919	922	932	931	928	931	935	933	938	942	951	946	978	962	968	956	942	895	836	773	*921*
30	750	826	858	896	916	927	935	940	942	936	938	938	944	959	973	963	949	943	941	938	942	943	941	939	924
31	937	937	938	934	933	931	933	933	931	932	932	931	932	937	942	937	952	981	981	963	958	945	936	925	941
Mean	*912*	913	920	928	932	933	932	933	932	930	930	931	932	938	946	949	954	953	*954*	952	946	937	931	921	935

Corrections to be applied to all values: H, −6γ; D, −4·3′; V, +3γ.

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

23 LERWICK — MAY 1944

	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 11° +	Minimum 11° +	Range	Maximum 46,000γ +		Minimum 46,000γ +	Range				
	h. m.	γ	γ	h. m.	γ	h. m.	′	′ h. m.	′	h. m.	γ	γ	h. m.	γ					
1 d	14 42	*833*	227	23 57	*606*	16 3	*67·0*	23·1 22 34	43·9	16 4	*1194*	763	23 36	*431*	3,2,2,2,6,7,4,5,	31	2	°A. 80·5
2 d	13 30	446	276	5 57	170	6 2	54·2	34·6 0 0	19·6	13 16	1029	815	0 0	214	4,4,4,3,4,3,2,2	26	1	81·0
3	18 7	404	344	13 4	60	2 59	48·1	33·9 7 25	14·2	14 0	966	906	3 34	60	2,2,2,0,3,2,1,2	14	1	80·8
4 d	17 39	462	330	11 40	132	17 42	51·5	*7·1* 20 59	*44·4*	18 49	1048	869	21 10	179	0,1,1,3,2,3,5,4	19	1	80·1
5	17 47	446	335	10 44	111	0 39	51·7	32·6 2 30	19·1	14 15	1016	800	1 53	216	4,3,2,2,2,3,3,2,2	21	1	80·1
6 d	18 22	506	328	11 33	178	0 50	55·0	20·8 18 17	34·2	15 18	985	833	1 10	152	4,2,2,3,3,4,4,2	24	1	80·0
7	16 14	448	310	7 23	138	7 59	49·0	31·5 16 58	17·5	16 49	1004	905	8 11	99	1,2,3,2,2,3,3,3	19	1	80·0
8	18 37	408	318	1 41	90	1 43	50·9	32·5 4 50	18·4	17 0	954	875	2 5	79	3,2,2,2,1,1,2,2	15	1	80·5
9	17 58	426	360	11 5	66	13 9	47·6	29·4 19 40	18·2	19 36	973	919	23 15	54	0,0,1,0,1,2,3,2	9	0	80·0
10	17 40	417	357	10 46	60	13 2	46·0	35·1 7 39	10·9	5 0	948	912	23 47	36	2,1,1,1,1,1,0,3	10	0	80·0
11	19 38	424	364	10 39	60	13 2	47·0	33·8 6 28	13·2	21 54	943	912	0 25	31	2,1,1,1,2,1,1,1	10	0	82·0
12	19 1	438	359	11 20	79	14 10	46·4	35·0 4 50	11·4	18 53	952	903	1 45	49	2,1,1,2,0,2,2,2	12	0	82·2
13 q	18 51	415	358	11 15	57	14 54	46·6	35·6 7 50	11·0	19 41	944	917	0 0	27	1,1,0,0,0,0,0,2	4	0	82·2
14	19 45	412	353	11 15	59	14 58	44·7	34·7 6 45	*10·0*	21 10	944	921	13 42	23	0,1,1,1,1,0,0,1	5	0	82·7
15	18 0	408	356	12 37	52	13 10	46·7	30·7 4 15	16·0	18 40	945	882	1 30	63	3,1,1,1,0,1,0,0	7	0	82·0
16 q	18 55	414	362	12 5	52	13 53	46·5	33·6 7 42	12·9	19 19	945	927	11 56	*18*	0,0,1,0,2,0,1,1	5	0	81·1
17	20 46	412	366	10 25	*46*	13 22	46·9	34·5 7 11	12·4	23 40	942	915	1 45	27	2,0,0,1,2,0,1,2	8	0	80·5
18 q	22 32	420	362	8 58	58	12 22	45·9	34·4 5 22	11·5	22 26	939	915	11 11	24	2,0,0,2,2,1,1,1	9	0	80·2
19	18 34	423	365	9 54	58	12 39	48·2	33·4 5 32	14·8	18 5	945	916	11 0	29	2,0,0,1,2,1,2,1	9	0	80·9
20 q	19 19	412	359	9 36	53	13 42	47·4	35·2 6 47	12·2	17 24	943	921	11 0	22	0,0,0,1,1,0,0,0	2	0	80·8
21 q	18 30	413	364	10 55	49	14 49	47·2	32·4 7 41	14·8	17 46	946	921	14 0	25	0,1,1,1,1,1,0,2	7	0	81·3
22	20 56	430	359	11 19	71	14 5	48·8	33·4 6 15	15·4	18 26	951	917	12 2	34	1,1,1,1,1,1,2,1	9	0	81·2
23	21 3	416	351	10 20	65	15 29	52·2	31·2 6 26	21·0	16 24	953	911	5 21	42	0,2,1,2,2,2,2,1	12	1	81·1
24	19 6	430	344	9 31	86	9 6	50·0	31·4 4 53	18·6	20 31	973	863	23 8	110	2,2,3,2,1,2,3,4	19	1	81·1
25	19 44	433	353	11 20	80	14 7	50·7	35·0 7 58	15·7	20 15	962	915	0 0	47	2,2,1,1,2,1,2,2	13	1	81·0
26	16 58	419	353	10 43	66	15 33	47·0	33·0 7 7	14·0	17 17	953	861	1 50	92	3,2,1,1,2,2,1,0	12	1	80·5
27	17 31	426	357	9 3	69	12 35	49·4	32·4 4 32	17·0	17 55	958	910	3 21	48	2,3,2,2,2,1,1,0	13	1	81·5
28	17 0	434	364	24 0	70	14 24	45·2	33·6 6 41	11·6	17 44	953	910	24 0	43	0,0,1,2,2,2,2,3	12	1	82·5
29 d	17 3	489	*109*	23 41	380	23 27	50·3	20·7 23 1	29·6	16 51	1018	*699*	24 0	319	3,2,2,3,3,3,3,6	25	1	83·0
30	15 11	418	262	0 0	156	13 47	44·4	28·9 1 50	15·5	14 20	978	*699*	0 0	279	5,3,2,2,3,2,0,0	17	1	83·6
31	17 22	467	366	22 52	101	20 12	46·3	33·3 23 6	13·0	18 0	994	922	23 27	72	1,1,2,1,2,3,2,2	14	1	84·1
Mean	− −	444	335	− −	109	− −	49·0	31·2 − −	17·8	− −	974	879	− −	95	1·6	13·3	0·58	81·2

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.

24 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — JUNE 1944

	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	389	387	386	395	394	388	382	379	375	368	364	365	372	374	389	386	407	420	404	416	413	408	404	403	390
2	399	398	394	392	395	390	384	382	373	358	351	351	369	372	379	380	390	395	407	408	410	404	400	398	387
3 q	399	396	395	392	390	382	377	374	374	368	365	365	380	391	389	389	394	399	408	409	406	403	403	401	390
4	402	399	398	399	396	389	382	380	375	368	362	362	373	379	390	400	404	415	418	421	426	428	421	417	396
5	417	411	410	409	407	404	398	384	376	372	377	388	397	404	402	409	417	416	413	422	416	417	407	402	*403*
6	395	389	391	395	395	393	387	383	382	376	378	383	391	401	396	395	400	413	407	416	410	401	396	397	395
7 q	396	396	396	397	396	395	391	388	383	375	369	371	385	390	403	408	401	402	409	413	414	411	408	404	396
8 q	399	398	398	396	396	394	392	386	379	372	369	373	379	386	397	401	405	404	408	409	411	408	404	404	395
9	404	404	408	407	404	404	400	385	370	361	358	366	381	386	403	413	412	409	409	408	406	404	398	400	396
10 q	395	386	392	395	394	390	389	388	377	369	362	364	361	374	382	396	404	420	420	414	411	404	401	396	391
11	393	391	396	398	394	389	382	377	368	356	353	361	370	381	404	430	417	429	432	419	407	398	393	392	393
12 q	392	389	390	387	391	387	377	373	365	355	353	360	366	370	383	391	400	404	405	407	406	404	399	398	385
13	395	395	395	395	396	391	384	379	375	368	364	370	374	394	403	407	413	433	430	420	417	417	408	400	397
14	395	396	384	389	400	395	387	378	368	361	353	365	388	371	404	403	410	420	427	420	413	408	396	400	393
15 d	365	316	308	366	386	386	392	370	354	359	365	376	374	387	404	408	416	447	442	415	410	411	381	368	*384*
16	365	368	381	386	395	390	378	356	349	354	361	360	372	389	389	391	405	400	411	417	408	404	396	396	384
17	384	386	383	381	379	382	382	367	361	357	356	365	377	382	398	399	411	407	420	420	412	405	403	400	389
18	385	389	389	390	380	377	383	382	373	368	365	369	367	374	383	396	402	408	411	411	408	407	400	399	388
19	392	387	387	391	391	391	386	377	371	361	366	372	380	383	391	388	398	408	411	416	414	409	403	398	390
20	384	385	383	395	395	386	379	374	362	354	365	370	373	379	373	389	404	411	430	427	416	404	395	406	389
21 d	407	400	395	399	390	388	395	374	356	341	356	363	368	372	374	392	416	415	423	430	421	411	401	397	391
22 d	392	388	403	370	361	391	396	383	365	344	362	383	391	395	413	451	444	422	414	417	417	420	412	394	397
23 d	386	385	383	392	391	387	370	332	356	371	369	370	374	383	390	422	426	408	412	408	412	410	411	396	389
24	390	386	377	382	394	392	382	375	368	359	351	356	365	373	389	392	406	403	401	403	405	402	395	396	385
25	394	395	393	394	392	386	383	378	373	358	360	360	370	381	390	398	400	400	424	411	410	406	401	399	390
26 d	392	389	380	389	389	383	374	376	372	363	352	370	387	426	451	465	470	459	445	435	398	385	377	347	399
27	383	391	387	379	394	398	394	383	372	361	348	350	374	384	388	389	411	421	423	424	410	404	394	384	389
28	383	386	384	384	387	386	383	383	374	366	375	374	376	380	389	383	396	404	404	409	408	406	400	396	388
29	395	377	384	391	324	355	385	383	382	374	365	359	366	373	386	404	402	406	408	408	408	404	399	392	385
30	392	385	391	395	398	395	391	378	371	365	361	366	373	377	396	405	400	400	409	411	408	406	404	404	391
Mean	392	388	388	391	390	389	385	377	370	363	*363*	367	376	384	394	403	409	413	*416*	415	411	407	400	396	391

Corrections to be applied to all values: V, -6γ; D, $-4{\cdot}3'$; V, $+4\gamma$.

MAGNETIC DECLINATION (WEST)

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

25 LERWICK (D) — 11° + — JUNE 1944

	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	37·9	41·3	40·0	36·7	35·3	33·7	32·3	31·7	33·6	36·4	40·1	43·5	45·1	44·9	43·7	42·7	40·8	40·6	37·7	40·0	41·2	41·1	40·9	41·1	39·3
2	40·8	40·6	39·8	38·1	35·2	33·7	32·8	34·1	35·4	37·2	42·2	46·7	48·6	46·8	44·9	42·7	41·9	40·6	39·8	39·2	37·4	39·6	39·9	40·1	39·9
3 q	39·6	39·1	38·2	37·3	36·9	36·5	36·9	37·1	37·8	39·0	40·9	43·9	45·5	44·9	44·6	42·7	41·6	41·1	41·2	41·3	40·4	40·1	40·5	40·2	40·3
4	39·6	39·1	38·7	37·7	35·9	34·8	33·9	33·1	34·8	37·7	41·2	42·6	44·5	44·8	44·0	43·5	41·9	40·6	41·2	42·0	43·0	41·9	36·0	35·0	39·5
5	37·8	37·1	36·7	34·1	34·2	34·1	34·1	36·7	38·9	41·6	44·5	46·9	47·4	47·2	44·9	44·0	44·7	45·5	42·9	42·1	40·7	40·6	41·2	41·9	40·8
6	40·1	40·9	37·2	36·1	35·0	33·6	32·0	31·9	33·9	37·6	42·0	46·1	46·7	45·4	43·9	42·0	41·9	41·9	40·3	41·7	42·1	41·9	41·3	40·9	39·9
7 q	39·8	39·2	38·4	37·5	36·0	35·5	35·6	35·0	36·0	37·9	41·9	45·8	49·9	51·3	49·0	46·4	44·0	41·8	42·1	42·0	41·7	41·1	39·9	40·0	*41·2*
8 q	40·2	39·0	37·8	37·0	36·0	36·1	35·8	36·4	36·6	37·5	40·1	42·1	44·9	46·4	45·3	44·4	44·4	42·8	41·4	41·8	41·8	41·6	41·3	41·0	40·5
9	39·4	38·4	39·5	38·7	35·5	34·0	33·7	33·6	34·5	36·8	41·4	44·5	46·8	47·8	48·4	47·3	43·7	42·7	41·7	40·7	40·3	40·0	38·5	39·1	40·3
10 q	39·4	43·0	38·5	35·4	33·5	34·7	35·9	36·8	37·9	38·2	39·4	41·0	44·0	46·4	45·7	45·6	44·9	44·4	42·6	41·4	40·7	40·2	40·5	39·4	40·4
11	40·9	39·6	37·3	35·3	33·7	34·0	34·7	34·7	36·2	39·1	42·1	45·6	48·0	48·4	48·2	48·5	45·3	41·8	43·4	41·4	40·7	40·6	40·0	40·7	40·8
12 q	39·8	41·4	38·0	37·9	36·4	34·7	35·1	34·8	35·5	37·9	40·5	44·1	45·7	47·3	46·5	45·3	42·8	40·7	39·6	39·9	40·5	40·8	40·7	40·4	40·3
13	39·5	38·6	38·2	36·6	35·4	34·3	34·6	34·1	33·7	34·7	37·7	42·7	46·4	48·4	49·5	47·4	44·6	44·2	44·3	41·2	41·1	41·5	41·5	41·6	40·5
14	41·5	38·3	38·7	34·7	33·7	33·0	32·9	33·3	35·3	38·9	43·4	45·1	47·4	47·3	46·3	46·4	45·7	45·0	44·4	43·0	41·8	41·9	42·7	40·5	40·9
15 d	31·3	28·7	32·7	33·7	28·9	31·3	31·8	33·7	34·0	37·8	40·8	43·7	46·3	47·5	48·3	46·7	46·5	39·8	45·2	44·7	42·2	34·7	33·6	29·0	*38·0*
16	31·3	34·8	38·6	36·3	34·7	32·8	33·1	34·0	36·7	38·8	42·7	46·3	47·4	48·0	47·5	45·7	43·3	41·8	40·7	41·6	41·4	41·5	38·6	38·0	39·8
17	38·6	37·5	35·7	35·0	34·6	34·1	32·5	32·8	34·6	36·5	39·6	41·9	43·5	43·3	43·6	41·6	41·5	42·7	43·7	43·3	42·5	40·8	39·0	32·6	38·8
18	36·7	35·5	35·0	35·8	35·1	35·3	35·2	35·0	36·4	39·6	42·3	44·4	44·9	44·7	44·8	44·4	41·6	40·0	40·2	40·4	40·4	40·4	39·8	39·0	39·5
19	38·6	38·9	38·8	35·9	33·1	32·7	33·6	35·3	35·6	36·9	39·4	42·6	44·7	45·2	45·8	44·2	42·9	42·6	42·7	43·4	42·3	36·7	37·7	37·3	39·5
20	36·4	40·5	39·0	35·4	30·8	28·2	32·4	33·3	35·8	37·1	39·6	43·4	45·7	47·5	47·5	45·3	43·9	42·4	42·5	40·6	37·9	39·6	40·4	33·9	39·1
21 d	35·7	36·5	37·3	35·2	31·2	36·9	35·6	33·2	36·0	37·2	39·5	41·8	44·9	47·0	46·6	44·1	44·0	43·0	43·1	41·8	41·9	40·5	38·0	40·6	39·7
22 d	28·5	31·6	35·2	34·5	44·5	32·5	32·1	31·2	34·0	41·2	41·8	42·6	45·6	46·5	46·9	47·0	33·7	44·0	44·8	44·2	43·3	36·4	36·4	35·6	38·9
23 d	37·5	36·6	39·5	36·0	34·8	32·7	33·9	37·8	38·4	38·4	41·3	43·6	45·7	45·4	45·1	45·0	38·8	42·5	43·3	42·6	42·1	39·0	35·0	37·9	39·7
24	38·7	38·8	41·8	39·4	35·4	34·0	33·5	33·7	34·7	36·4	39·8	42·6	43·3	44·4	45·5	44·7	43·3	42·2	40·7	39·3	40·9	41·3	41·0	40·2	39·8
25	39·1	38·3	38·0	36·5	35·2	34·4	34·2	35·2	34·6	36·2	38·5	41·3	43·0	44·6	46·3	46·2	44·5	44·6	43·8	40·8	41·2	40·5	39·5	38·6	39·8
26 d	38·4	37·8	39·2	31·7	29·7	31·8	32·5	32·7	35·9	37·9	40·9	43·2	46·2	50·9	48·1	50·8	51·3	48·3	47·0	44·7	33·5	36·5	38·6	39·6	40·3
27	35·7	36·4	38·0	39·5	34·9	34·5	34·6	35·6	36·3	38·8	39·6	40·4	42·8	44·3	43·9	43·9	44·6	44·7	43·0	42·5	42·8	41·9	37·3	37·7	39·7
28	36·3	36·0	36·4	35·7	35·5	34·3	34·6	34·4	35·5	38·6	38·4	40·4	42·1	43·6	44·3	42·9	42·8	42·8	42·4	41·8	41·8	41·6	40·6	38·5	39·2
29	36·1	35·5	34·3	33·6	40·9	44·7	36·9	34·9	35·5	35·6	37·4	40·6	43·3	45·1	45·5	45·1	44·6	43·6	42·5	41·6	41·5	38·7	39·4	40·4	39·9
30	40·8	41·7	40·4	35·9	33·7	32·2	32·1	33·4	34·4	36·5	38·7	40·9	43·4	45·4	44·6	44·8	43·8	42·5	41·6	41·6	41·0	40·9	40·7	37·4	39·5
Mean	37·9	38·0	37·9	36·1	34·9	34·2	*34·0*	34·3	35·6	37·8	40·6	43·3	45·5	*46·4*	46·0	45·0	43·3	42·7	42·3	41·8	41·0	40·1	39·3	38·6	39·9

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

26 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — JUNE 1944

	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	929	928	924	932	937	939	939	939	938	937	935	933	933	933	934	942	943	946	955	949	945	943	941	939	*938*
2	939	938	940	940	942	943	940	936	932	931	929	929	926	931	932	933	939	941	939	942	944	942	941	941	937
3 q	938	939	939	941	939	938	935	935	931	925	922	921	924	928	933	937	938	938	938	935	936	937	937	938	934
4	938	939	940	939	940	942	939	937	936	931	922	918	921	923	927	929	933	937	940	938	935	927	923	922	932
5	924	929	936	940	938	935	933	932	928	923	922	921	923	933	940	945	950	953	958	955	946	942	943	939	937
6	935	933	938	943	940	938	938	936	932	896	922	917	915	921	931	935	939	937	948	947	944	942	939	938	933
7 q	939	941	942	943	941	938	937	935	930	928	928	925	919	920	920	928	938	942	938	936	934	934	936	933	934
8 q	935	938	941	943	941	940	938	937	929	928	924	921	921	918	921	928	937	942	943	939	935	933	933	932	933
9	932	933	932	928	927	926	927	926	923	922	917	911	912	918	924	933	942	944	941	939	938	935	933	930	929
10 q	930	919	918	929	935	935	933	931	929	928	921	918	924	922	927	926	933	937	941	944	941	938	932	927	930
11	921	920	923	930	933	930	928	929	933	936	930	923	915	914	913	927	955	963	960	966	965	952	943	931	935
12 q	916	917	923	930	933	939	942	939	938	935	931	929	927	927	926	930	937	939	940	939	938	938	937	936	933
13	933	934	934	935	933	936	936	933	931	932	929	919	914	914	918	919	924	928	942	954	953	943	941	935	932
14	930	913	915	917	927	933	933	933	933	932	928	921	915	927	929	945	950	954	953	955	956	947	944	909	933
15 d	870	854	834	821	865	865	875	871	885	912	914	921	932	935	938	953	967	971	960	958	951	933	890	856	*905*
16	861	881	912	922	932	937	937	939	935	930	930	933	935	938	939	933	933	942	944	939	943	938	927	888	927
17	890	912	926	932	928	922	922	926	924	924	925	927	929	931	934	949	950	944	938	939	939	934	917	909	928
18	913	917	924	924	927	922	918	920	927	929	925	922	930	932	935	937	937	938	937	935	935	934	933	935	929
19	938	936	932	932	932	936	936	937	933	930	929	929	928	928	933	938	939	938	937	931	932	935	927	922	933
20	921	911	906	915	925	927	930	930	927	921	917	921	928	933	939	942	941	938	931	942	950	944	929	902	928
21 d	915	928	926	921	915	917	910	921	921	918	913	920	929	937	943	943	947	953	948	947	954	948	940	932	931
22 d	911	913	924	912	845	861	899	917	922	931	927	923	926	933	933	965	1001	975	956	948	945	916	892	879	923
23 d	891	892	901	910	927	929	930	933	923	924	926	927	931	936	938	959	991	976	958	951	943	938	926	917	932
24	920	923	921	917	919	926	932	933	933	935	933	924	917	929	934	948	949	953	945	948	942	938	938	933	933
25	933	935	935	940	943	942	939	938	935	935	928	923	921	922	923	927	936	937	938	949	944	937	934	933	934
26 d	933	932	921	909	916	921	926	927	928	925	923	914	917	920	947	974	1002	1004	999	974	956	939	928	843	937
27	873	904	912	906	918	928	935	937	938	933	929	930	922	923	926	932	937	948	958	960	951	942	937	918	929
28	918	923	932	934	933	934	933	935	938	934	932	929	924	923	928	933	932	932	933	933	938	938	938	933	932
29	902	889	902	904	893	835	861	898	911	921	922	922	924	929	931	933	939	942	938	938	938	941	940	938	916
30	935	923	913	926	935	936	932	935	927	931	932	931	933	932	929	935	937	936	933	936	936	934	933	927	932
Mean	*919*	920	922	924	925	925	927	929	928	927	925	923	924	927	931	939	947	*948*	946	946	944	938	932	921	931

Corrections to be applied to all values: H, −6γ; D, −4·3′; V, +4γ.

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

27 LERWICK — JUNE 1944

	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 11° +		Minimum 11° +		Range	Maximum 46,000γ +		Minimum 46,000γ +		Range				
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ				°A.
1	17 32	432	361	10 51	71	12 55	45·8	30·4	7 33	15·4	18 24	958	923	2 34	35	2,1,1,1,2,2,2,0	11	1	84·0
2	20 31	416	343	11 49	73	11 45	49·4	31·1	6 19	18·3	20 13	948	923	12 35	25	1,2,1,2,2,0,2,1	11	0	84·1
3 q	19 40	411	362	10 55	*49*	12 42	45·8	36·1	4 47	*9·7*	3 47	942	921	11 14	*21*	0,1,2,0,2,0,1,0	6	0	84·0
4	20 51	451	358	10 52	93	13 2	45·4	30·1	22 59	15·3	5 36	944	916	11 18	28	0,0,1,1,1,1,3,3	10	1	84·0
5	17 5	441	369	10 1	72	12 57	47·9	32·0	6 10	15·9	17 46	966	918	11 10	48	1,1,2,2,2,3,2,1	14	1	83·8
6	17 41	426	374	9 46	52	11 49	47·4	31·2	7 29	16·2	18 43	953	913	12 30	40	2,1,1,1,2,2,2,0	11	0	83·8
7 q	15 59	417	365	10 53	52	12 46	51·8	34·7	7 20	17·1	17 15	946	916	13 26	30	0,0,0,1,1,2,1,0	5	0	83·9
8 q	19 52	418	367	10 28	51	13 19	46·7	34·8	4 41	11·9	18 4	945	917	14 3	28	0,1,0,0,1,2,1,0	5	0	83·8
9	15 18	425	354	10 49	71	14 21	49·4	32·3	7 9	17·1	17 46	945	911	11 22	34	1,2,2,1,2,2,0,1	11	1	83·6
10 q	18 50	425	353	12 40	72	13 38	46·7	32·7	4 18	14·0	20 3	945	912	2 10	33	2,1,1,1,2,2,1,1	11	1	83·6
11	16 1	444	349	10 56	95	15 32	49·5	32·8	5 27	16·7	19 30	969	910	14 15	59	2,1,1,1,2,3,2,2	14	1	84·0
12 q	19 30	411	347	10 10	64	13 31	47·5	34·0	5 32	13·5	18 32	940	910	0 10	30	1,1,0,1,1,1,0,0	5	0	84·0
13	17 49	440	361	10 50	79	14 10	50·0	32·8	8 52	17·2	20 0	959	912	12 50	47	0,1,2,1,2,2,2,2	12	1	84·0
14	18 16	432	351	10 24	81	12 23	48·3	31·9	5 9	16·4	20 35	957	907	2 0	50	2,2,0,2,3,1,2,3	15	1	84·2
15 d	17 44	473	*258*	3 0	*215*	13 59	49·6	22·8	1 8	26·8	17 16	977	*795*	3 9	182	4,4,3,2,3,3,3,4	26	1	85·0
16	19 33	429	341	7 48	88	13 24	50·0	26·8	0 0	23·2	17 55	948	843	0 5	105	3,2,2,2,2,2,2,3	18	1	85·2
17	18 40	426	351	10 6	75	18 38	44·3	31·8	7 3	12·5	15 30	955	873	0 1	82	3,1,1,1,1,2,1,3	13	1	85·1
18	19 1	413	359	10 35	54	12 48	45·6	32·4	0 0	13·2	15 4	939	912	0 0	27	2,2,1,1,1,1,0,0	8	0	85·1
19	21 45	422	356	9 31	66	14 52	46·3	31·3	4 57	15·0	16 35	941	920	24 0	*21*	0,1,1,2,2,0,1,2	9	0	85·2
20	19 6	442	344	0 29	98	14 33	48·0	26·7	5 49	21·3	20 12	954	896	23 33	58	2,2,2,2,2,2,2,3	17	1	85·3
21 d	19 39	439	327	8 52	112	14 10	48·3	26·7	4 42	21·6	17 35	955	898	4 12	57	2,3,3,3,2,3,2,2	20	1	85·3
22 d	15 28	*501*	313	4 4	188	15 26	50·2	*22·1*	0 30	28·1	16 8	*1038*	816	4 44	*222*	3,4,2,3,3,4,2,3	24	1	85·3
23 d	16 14	478	310	7 25	168	13 3	47·3	31·3	21 18	16·0	16 42	1000	885	1 32	115	2,2,3,1,2,4,2,2	18	1	85·4
24	16 45	411	348	10 6	63	14 47	45·9	32·0	6 24	13·9	17 39	954	911	3 17	43	2,2,1,1,2,1,1,0	10	1	85·7
25	18 35	432	355	10 59	77	15 4	46·6	33·8	6 17	12·8	19 51	952	917	12 43	35	0,1,1,1,1,2,2,0	8	0	85·8
26 d	15 34	484	303	23 23	181	15 44	*57·8*	27·8	3 56	*30·0*	17 16	1021	800	23 29	221	2,2,1,2,3,3,4,5	22	1	85·8
27	17 6	435	332	11 1	103	20 27	46·5	33·3	6 59	13·2	19 14	964	844	0 0	120	4,3,1,2,2,3,2,2	19	1	86·5
28	19 13	413	364	9 19	*49*	14 16	44·7	32·8	7 11	11·9	22 4	940	917	0 49	23	1,1,1,2,2,2,1,2	12	0	86·0
29	15 36	422	291	4 42	131	5 8	54·4	32·4	2 29	22·0	21 40	944	817	5 30	127	3,4,3,1,1,2,1,1	16	1	85·9
30	19 9	415	352	10 13	63	13 18	46·9	29·6	6 45	17·3	16 5	939	908	2 23	31	2,1,2,1,2,2,1,2	13	1	86·4
Mean	− −	434	344	− −	90	− −	48·1	31·0	− −	17·1	− −	958	892	− −	66	1·6	13·1	0·67	84·8

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.

28 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — JULY 1944

	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	390	380	372	391	391	386	384	379	373	365	361	370	377	390	388	400	396	412	418	418	408	407	401	398	390
2	393	388	384	378	385	386	384	379	380	375	374	370	369	374	391	396	403	405	410	416	413	408	403	409	391
3	399	401	401	398	393	390	386	387	378	364	364	364	379	387	400	400	408	404	411	411	408	411	411	402	394
4	403	394	391	391	386	390	385	375	370	364	361	369	385	402	406	404	402	403	408	415	407	406	404	402	393
5	397	385	382	391	396	392	383	378	373	370	373	377	382	391	396	409	411	408	412	414	412	408	405	404	394
6	403	401	396	397	396	396	395	387	379	366	361	365	373	377	392	398	406	416	415	420	420	417	406	402	*395*
7	383	385	371	374	392	399	395	385	379	371	368	364	372	385	385	393	412	420	418	412	402	397	396	395	390
8	400	394	394	391	388	381	378	376	372	363	361	358	365	370	380	395	407	415	422	422	410	407	407	412	390
9 d	417	404	405	409	391	391	402	388	357	340	351	361	377	398	396	399	414	415	411	408	403	398	394	387	392
10	387	384	374	377	382	382	382	377	369	363	357	356	365	391	400	403	400	419	417	420	415	396	393	391	387
11	386	385	377	383	379	370	377	378	379	367	361	363	368	373	386	389	396	403	411	411	404	398	397	396	385
12	393	393	392	395	393	390	388	385	381	372	366	366	373	382	391	397	413	407	413	411	416	411	408	411	394
13	398	398	394	394	393	391	383	381	377	369	361	362	378	386	400	393	394	407	417	411	411	405	404	401	392
14	397	394	394	392	392	388	380	373	364	351	353	360	371	381	390	391	411	417	415	415	409	406	404	400	389
15 d	391	391	383	383	386	378	355	361	364	355	356	357	364	376	377	386	388	394	403	403	403	399	395	394	*381*
16	391	391	387	388	390	388	377	380	374	366	362	366	370	384	403	407	408	411	419	424	412	403	400	399	392
17	394	396	388	373	371	365	369	366	366	357	356	351	366	378	386	390	396	408	404	407	398	398	392	393	382
18	387	383	386	387	386	379	376	373	369	361	364	364	360	378	389	391	397	413	417	416	400	398	394	366	385
19 d	375	364	379	391	386	378	377	379	375	359	359	362	355	361	383	404	405	401	404	410	412	407	398	387	384
20 d	395	391	380	390	399	397	391	382	370	352	347	353	357	361	365	385	395	395	400	407	403	399	398	395	384
21 d	393	396	395	390	393	394	383	374	364	355	349	351	350	367	378	397	410	416	414	410	410	394	390	379	385
22	385	381	386	392	391	379	368	361	354	359	354	352	365	371	388	401	406	413	424	406	405	403	374	388	384
23	390	385	387	391	392	385	376	373	361	361	371	375	379	383	386	384	396	404	410	405	400	395	393	392	386
24 q	389	390	388	391	391	388	379	369	365	364	365	362	370	381	387	390	398	402	403	407	405	400	396	395	386
25 q	393	387	389	386	382	385	382	382	377	371	368	365	365	371	378	387	395	397	402	405	401	399	400	399	386
26 q	396	395	396	395	398	391	388	382	367	352	347	348	356	367	382	391	390	399	400	402	406	402	396	395	385
27 q	393	393	393	393	394	390	386	381	373	367	366	366	374	379	387	384	393	403	405	413	412	404	395	390	389
28 q	390	389	390	389	388	386	382	382	379	366	363	365	371	374	378	382	391	403	411	413	412	415	405	389	388
29	388	390	392	394	392	389	385	381	374	363	355	357	364	378	383	391	393	396	403	404	411	400	393	386	386
30	387	381	382	387	389	388	386	376	372	365	366	368	373	376	380	385	382	396	408	409	405	394	394	392	385
31	392	390	379	385	398	399	391	386	370	362	363	367	365	379	382	385	399	398	404	409	407	391	389	387	387
Mean	393	390	387	389	390	387	382	378	371	362	*361*	362	369	379	388	394	400	406	411	*411*	408	402	398	395	388

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3'$; V, $+9\gamma$.

MAGNETIC DECLINATION (WEST)

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

29 LERWICK (D) — 11° + — JULY 1944

	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	38·0	35·4	39·3	34·4	32·1	32·3	33·6	34·6	35·8	35·7	38·1	41·9	45·3	46·8	46·2	43·1	41·0	42·9	44·3	42·9	40·3	38·6	40·0	38·5	39·2
2	37·9	39·6	40·6	41·1	39·3	37·9	36·3	32·8	32·5	35·7	40·8	43·0	44·3	45·5	46·0	45·3	44·3	42·5	41·6	41·8	41·3	40·7	40·4	39·6	*40·5*
3	37·9	38·1	37·6	37·6	35·7	34·8	34·8	34·7	35·1	38·3	41·7	45·1	47·2	48·8	46·8	42·9	42·4	40·7	39·7	39·5	39·4	40·5	40·3	37·8	39·9
4	37·1	35·1	35·3	35·2	35·1	32·7	33·0	33·6	34·7	37·0	40·1	43·1	45·3	46·3	45·4	43·6	42·3	42·1	41·4	40·3	38·7	39·8	39·6	39·7	39·0
5	39·7	41·8	39·8	36·8	34·4	30·5	30·6	31·8	34·8	37·6	40·2	43·4	45·2	46·5	48·3	46·9	44·8	42·5	39·0	39·7	39·7	39·1	39·1	38·7	39·6
6	38·7	37·6	37·1	36·1	34·8	33·2	32·5	33·9	34·6	36·2	39·6	44·1	47·1	47·8	47·9	45·7	42·3	40·3	39·3	39·5	39·4	39·7	44·4	36·0	39·5
7	37·7	41·0	39·5	32·4	27·2	28·6	28·7	28·6	30·8	34·2	37·1	41·0	44·7	48·8	48·3	45·4	42·5	40·5	40·7	40·5	39·5	37·4	37·4	37·6	*37·9*
8	37·6	37·3	36·7	36·3	34·1	32·6	31·7	31·4	32·3	35·9	39·1	42·7	44·7	45·7	46·2	44·4	42·6	41·3	39·6	39·9	40·3	39·8	39·7	39·8	38·8
9 d	40·1	46·7	35·8	36·3	37·2	37·4	32·1	31·4	32·5	37·3	41·0	45·3	46·6	48·0	47·2	45·6	43·8	43·1	42·3	41·0	39·8	38·7	36·9	35·8	40·1
10	35·6	37·3	38·0	38·0	35·5	34·3	32·3	32·4	33·9	35·7	39·0	42·5	45·0	47·0	49·0	49·2	44·4	44·8	42·9	42·0	37·7	37·5	38·1	38·0	39·6
11	37·5	37·4	38·7	36·4	34·6	36·0	36·0	36·6	35·5	35·8	39·0	41·6	44·1	44·9	44·7	43·6	42·7	41·8	41·2	40·6	40·1	39·4	39·2	38·6	39·4
12	37·9	36·7	36·4	35·6	33·7	32·2	31·5	31·9	32·1	33·7	37·3	40·7	42·8	44·5	44·9	43·7	44·0	41·9	42·3	42·1	42·2	41·1	38·8	40·3	38·7
13	40·8	36·6	34·4	33·8	33·4	32·6	33·5	34·8	35·7	37·7	39·1	40·7	42·5	44·1	44·0	43·2	42·4	42·6	41·6	40·2	40·4	40·5	40·6	38·7	38·9
14	37·6	37·5	36·6	34·9	33·2	32·3	32·8	35·4	36·5	37·7	39·8	39·4	41·6	44·1	44·8	44·5	43·2	42·6	42·5	42·1	40·8	40·9	38·6	37·1	39·0
15 d	33·5	36·7	39·7	37·9	34·6	32·3	35·2	39·0	37·9	38·2	39·7	44·6	47·5	47·1	46·2	43·8	41·4	40·1	39·2	38·7	37·4	39·3	39·8	38·4	39·5
16	37·2	36·1	37·1	35·6	33·7	31·4	31·2	33·6	34·5	37·4	40·5	43·7	46·8	46·6	45·5	45·6	44·9	43·5	37·8	39·7	36·1	38·3	40·1	39·6	39·0
17	38·4	38·0	37·2	38·8	42·6	42·3	37·8	34·5	33·2	35·8	40·4	43·6	45·7	46·7	46·2	44·5	43·0	41·9	40·8	39·3	40·3	39·3	38·7	38·7	40·3
18	40·5	39·9	39·3	36·6	35·5	34·1	33·0	33·2	34·7	37·3	39·9	43·9	46·3	46·2	45·6	44·3	42·9	42·4	41·0	37·3	40·5	40·3	39·9	40·0	39·8
19 d	31·5	28·8	34·3	35·2	34·6	35·3	36·1	35·5	35·3	37·3	37·7	41·9	47·2	48·1	45·8	45·8	44·2	42·1	42·4	42·6	42·6	41·5	40·2	43·6	39·6
20 d	38·4	36·5	37·9	40·1	33·5	33·3	31·9	35·3	40·2	39·4	41·4	44·6	48·5	49·4	47·7	43·7	41·6	40·3	40·3	39·9	38·2	38·4	41·0	40·3	40·1
21 d	39·1	38·0	36·1	34·7	35·5	34·6	34·5	36·4	37·9	41·4	43·7	43·9	44·7	43·5	44·6	44·4	42·1	41·0	41·0	38·7	40·9	37·8	38·5	40·5	39·7
22	38·4	40·7	35·8	35·0	33·7	32·8	32·8	33·5	34·8	37·3	39·8	41·6	43·5	44·3	43·3	42·0	41·3	39·6	37·7	41·7	42·4	42·2	40·6	38·3	38·9
23	39·6	37·2	35·5	34·9	34·6	33·7	33·8	35·5	36·8	39·5	41·0	43·3	44·8	44·8	44·2	42·7	41·5	42·3	41·7	41·3	39·9	39·3	40·4	39·8	39·5
24 q	39·4	37·6	36·7	35·6	34·7	34·0	33·4	33·0	33·8	35·8	37·5	41·2	42·3	42·9	43·0	42·6	42·3	41·6	40·8	41·3	42·3	41·7	40·6	39·5	38·9
25 q	38·9	37·3	37·5	42·9	39·4	38·0	36·1	34·4	34·8	36·2	38·2	40·9	43·8	44·9	45·6	45·4	44·5	42·8	41·5	40·3	40·3	39·6	39·6	38·9	40·1
26 q	38·2	38·4	37·5	37·2	35·3	34·6	33·4	32·7	33·0	35·0	36·9	40·3	42·7	44·4	46·0	45·5	44·4	43·6	42·4	41·5	41·2	38·8	37·9	38·5	39·1
27 q	37·5	37·4	37·1	36·7	35·5	34·4	33·4	33·0	34·4	36·0	38·8	42·4	44·8	45·5	46·5	46·3	44·6	44·0	43·1	42·4	41·6	40·3	36·7	36·7	39·5
28 q	36·3	35·8	36·5	36·1	36·0	35·3	34·6	34·9	35·5	37·6	40·1	42·6	45·0	44·6	43·6	43·8	43·4	43·8	43·6	42·9	42·0	39·1	33·6	35·7	39·3
29	37·3	36·5	36·9	37·1	35·7	34·1	34·3	34·9	35·1	36·6	38·9	43·3	46·4	45·9	44·3	43·3	42·6	41·6	40·7	40·0	37·5	36·1	35·7	36·1	38·8
30	35·3	34·0	35·4	38·3	35·3	33·5	31·9	33·6	34·4	36·3	39·8	42·5	44·1	44·5	44·6	43·8	41·8	41·6	41·0	40·9	38·0	36·9	37·8	37·5	38·5
31	37·2	38·5	42·2	38·7	32·5	32·4	34·5	34·0	34·7	36·6	39·5	43·6	46·3	46·0	44·9	43·6	42·0	40·3	40·5	40·6	38·1	37·7	38·0	35·0	39·1
Mean	37·8	37·6	37·4	36·7	34·9	34·0	*33·5*	33·9	34·8	36·8	39·5	42·7	45·1	*45·9*	45·7	44·5	42·9	42·0	41·1	40·7	40·0	39·4	39·1	38·5	39·3

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

30 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — JULY 1944

	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	921	915	912	920	931	938	939	940	938	933	938	933	927	923	928	935	945	943	938	939	943	940	935	933	933
2	938	938	928	920	908	906	913	916	920	915	916	920	923	922	926	929	933	939	939	938	939	939	936	920	926
3	928	933	938	939	939	934	933	928	927	932	922	919	921	925	932	940	946	945	944	946	945	939	934	933	934
4	930	938	939	939	938	932	929	931	931	932	931	924	920	920	921	927	933	933	932	933	939	938	936	935	932
5	938	932	920	923	917	927	931	930	927	927	927	927	924	928	929	930	940	950	947	942	938	936	933	933	931
6	933	933	937	936	935	931	928	929	929	926	921	916	924	932	933	934	939	939	939	939	939	932	897	892	929
7	899	880	850	854	883	911	926	929	928	927	926	924	926	932	939	939	946	956	954	949	945	943	938	936	*923*
8	935	938	939	941	939	936	932	933	928	924	917	910	911	921	925	933	941	945	945	946	943	939	933	931	933
9 d	928	904	903	911	908	904	907	917	929	925	922	918	921	928	939	951	956	955	954	950	950	948	941	931	929
10	914	910	904	916	933	940	945	945	945	939	939	933	925	922	931	940	952	951	953	950	930	939	939	939	935
11	935	933	927	925	933	938	933	933	933	937	938	933	928	928	932	939	937	938	939	939	943	943	939	936	935
12	935	933	932	934	939	938	936	932	932	932	929	920	918	918	913	918	925	939	939	938	933	933	934	911	930
13	890	902	920	925	929	929	933	933	936	934	933	932	922	922	919	928	933	933	935	943	943	939	938	934	929
14	933	928	928	931	931	932	933	931	932	927	921	920	925	922	927	930	929	932	937	937	941	934	933	931	930
15 d	928	930	921	917	917	921	929	918	923	921	923	930	940	956	949	939	938	939	944	947	945	937	936	937	933
16	936	935	933	928	932	928	929	928	928	928	928	928	928	939	940	943	952	956	957	945	939	945	941	940	937
17	941	940	940	928	901	882	886	898	915	924	929	937	936	931	940	952	957	952	950	947	945	939	938	939	931
18	936	929	935	939	943	945	946	945	940	933	933	932	933	931	932	933	939	942	955	963	954	946	933	911	939
19 d	887	896	919	932	940	943	941	939	938	937	934	929	937	934	937	939	945	946	946	942	938	945	950	933	934
20 d	935	946	951	934	934	941	943	940	939	948	953	952	952	962	956	954	954	955	949	951	955	954	946	945	*948*
21 d	946	946	946	943	939	936	938	941	940	943	940	940	945	950	951	948	947	958	968	946	960	936	919	929	944
22	935	940	945	949	949	952	950	946	946	937	938	943	940	939	943	951	957	961	967	964	954	945	937	936	947
23	935	940	945	945	946	948	944	941	940	937	935	937	931	935	940	950	953	956	952	951	951	949	944	941	944
24 q	942	941	944	943	946	946	946	943	937	930	930	934	936	938	940	946	948	947	951	952	950	947	946	944	943
25 q	940	941	944	944	940	939	941	945	944	941	933	930	932	930	930	934	935	941	940	940	940	937	935	933	938
26 q	934	933	930	930	930	935	938	939	935	930	929	927	921	925	926	930	936	936	934	933	933	936	936	932	932
27 q	932	931	932	934	934	935	937	938	933	929	928	925	917	923	926	932	935	939	937	932	935	939	940	939	933
28 q	932	934	931	934	936	938	940	939	936	940	929	919	922	927	931	933	928	930	930	932	934	934	932	931	932
29	931	931	938	931	938	938	938	938	935	929	926	920	919	920	921	926	931	935	935	936	934	932	921	919	930
30	915	922	926	924	925	927	926	927	923	919	916	916	916	917	923	933	940	938	935	938	941	941	930	925	927
31	915	926	925	914	917	919	918	920	924	923	922	916	918	925	928	935	936	935	930	929	937	936	919	910	924
Mean	928	928	928	928	930	931	932	933	933	931	929	927	*927*	930	932	937	941	944	*944*	943	942	940	934	930	934

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3'$; V, $+9\gamma$.

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

31 LERWICK — JULY 1944

	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 11° +	Minimum 11° +	Range	Maximum 46,000γ +		Minimum 46,000γ +	Range				
	h. m.	γ	γ	h. m.	γ	h. m. ′	′ h. m.	′	h. m.	γ	γ h. m.	γ				°A.
1	19 57	424	357	2 9	67	14 9 47·8	31·6 4 38	16·2	17 0	946	909 2 54	37	2,2,0,1,2,2,2,1	12	1	87·1
2	20 9	422	358	12 10	64	14 35 46·5	31·0 7 51	15·5	18 48	940	904 5 6	36	2,2,2,1,1,1,2,2	13	1	87·0
3	20 6	420	353	10 10	67	13 22 49·5	33·0 7 28	16·5	16 49	949	917 11 31	32	1,1,2,2,2,2,1,2	13	1	85·1
4	19 30	433	360	10 36	73	13 25 46·5	32·7 5 17	13·8	1 55	942	919 12 53	23	2,1,0,1,1,2,2,0	9	0	86·2
5	18 56	417	366	10 3	51	14 27 48·9	29·3 6 4	19·6	17 48	952	915 2 20	37	2,2,1,1,1,2,1,0	10	0	86·1
6	19 52	426	359	10 17	67	14 44 48·5	30·8 6 31	17·7	16 59	942	887 22 50	55	1,1,1,2,1,1,1,3	11	1	86·0
7	18 36	426	356	12 50	70	14 1 49·7	*26·4* 4 41	*23·3*	17 35	957	*842* 3 14	*115*	3,4,0,1,2,2,2,1	15	1	87·0
8	18 8	432	354	11 17	78	14 37 46·8	30·6 7 10	16·2	18 50	950	907 11 51	43	0,1,1,2,1,1,1,1	8	0	88·0
9 d	17 23	424	*327*	9 19	*97*	13 31 49·3	29·5 7 58	19·8	15 56	962	885 1 52	77	3,3,3,3,2,2,1,2	19	1	88·0
10	20 9	*446*	352	10 57	94	15 11 *50·2*	31·0 6 40	19·2	16 20	956	903 2 38	53	2,2,1,1,2,2,3,2	15	1	88·0
11	18 45	416	357	10 39	59	13 40 45·2	33·7 4 33	11·5	5 9	943	926 13 6	17	2,2,2,0,0,0,0,1	7	0	88·0
12	16 33	421	360	11 18	61	14 28 45·2	30·2 6 10	15·0	5 10	940	892 24 0	48	0,1,1,1,1,2,1,3	10	0	87·1
13	18 40	420	353	11 9	67	14 9 45·3	31·6 6 19	13·7	11 46	944	882 0 21	62	3,1,1,1,1,2,1,1	11	0	86·2
14	17 43	436	339	11 17	*97*	14 36 45·8	31·3 6 22	14·5	20 11	941	917 10 59	24	1,0,2,2,2,2,1,2	12	1	85·6
15 d	19 7	419	348	11 20	71	13 30 48·3	30·3 5 41	18·0	14 0	962	910 4 12	52	3,2,3,2,3,1,2,1	17	1	85·1
16	18 51	443	357	10 42	86	13 2 47·9	28·5 18 49	19·4	18 30	963	926 13 5	37	1,2,1,1,2,2,3,2	14	1	85·9
17	17 40	411	349	11 24	62	13 49 47·5	30·6 8 0	16·9	16 45	962	880 5 55	82	1,3,2,2,2,1,1,1	13	1	87·1
18	19 12	433	351	23 34	82	12 53 46·6	32·4 5 37	14·2	19 40	966	879 23 45	87	1,1,1,1,1,2,2,3	12	1	88·5
19 d	16 47	416	334	12 50	82	13 19 50·1	26·8 1 14	*23·3*	5 32	945	883 0 0	62	3,2,2,2,3,2,1,2	17	1	89·2
20 d	19 52	411	335	13 59	76	13 54 50·0	29·3 6 37	20·7	13 50	*973*	922 0 0	51	2,2,3,2,3,1,2,2	17	1	89·6
21 d	17 56	437	340	10 45	*97*	15 10 45·7	32·0 5 31	13·7	19 16	*973*	915 21 52	58	1,2,1,2,2,2,2,2	14	1	89·1
22	18 13	437	348	8 45	89	13 30 44·7	31·6 5 44	13·1	18 5	970	926 0 4	44	2,1,1,1,1,2,2,2	12	1	88·9
23	18 13	413	357	8 52	56	13 37 45·1	32·7 6 15	12·4	17 28	957	929 0 35	28	2,1,1,2,2,2,0,1	11	0	88·1
24 q	19 33	411	360	11 45	51	15 11 43·1	32·4 6 53	*10·7*	19 15	956	927 10 6	29	1,0,1,0,1,0,1,1	5	0	88·0
25 q	19 20	406	361	12 3	*45*	14 50 45·8	34·3 7 27	11·5	17 45	941	929 13 51	*12*	0,2,1,1,1,0,1,0	6	0	88·0
26 q	20 50	412	336	11 34	76	14 36 46·3	32·1 8 3	14·2	21 38	940	919 12 27	21	0,0,1,1,1,1,2,1	7	0	88·1
27 q	19 56	420	364	10 57	56	14 54 46·9	32·8 7 30	14·1	17 35	941	916 12 24	25	0,0,0,0,2,2,2,2	8	0	87·5
28 q	21 16	424	356	10 46	68	13 8 45·3	34·4 6 35	10·9	21 55	939	919 12 0	20	1,0,1,1,2,1,1,2	9	0	87·1
29	20 46	422	352	10 51	70	12 36 47·0	33·9 5 43	13·1	20 17	939	916 12 7	23	1,1,1,1,1,2,2,2	11	0	87·1
30	19 18	412	359	9 46	53	14 16 45·2	30·6 6 26	14·6	21 20	944	914 0 30	30	1,2,1,2,2,2,2,2	14	1	87·1
31	19 40	415	350	12 11	65	12 37 47·2	31·3 4 42	15·9	21 10	938	910 3 40	28	2,2,1,2,2,1,2,3	15	1	87·7
Mean	— —	423	352	— —	71	— — 47·0	31·2 — —	15·8	— —	951	907 — —	44	1·5	11·8	0·58	87·3

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.

32 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — AUGUST 1944

	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	387	391	389	391	397	391	390	382	366	361	358	352	355	374	378	386	391	400	403	403	403	397	393	392	385
2 d	389	388	390	389	391	385	383	385	380	369	362	364	370	376	388	391	405	420	433	442	406	250	323	164	373
3 d	−16	237	−59	256	333	359	296	291	307	308	326	344	359	382	391	390	386	386	387	398	394	386	373	341	*315*
4	361	348	370	378	385	379	377	371	365	356	353	352	358	365	377	382	386	391	385	386	386	391	383	383	374
5	378	377	375	377	380	377	375	369	359	349	349	360	368	373	384	400	394	401	391	398	401	399	385	387	379
6	385	381	365	361	378	386	379	367	351	343	348	351	356	371	377	395	400	391	394	398	399	398	399	394	378
7	393	390	382	388	389	385	379	371	362	356	355	358	357	373	385	402	393	396	398	403	401	399	395	398	384
8	394	392	391	387	386	382	380	373	362	352	350	360	366	386	395	399	383	395	409	421	412	398	395	395	386
9	389	381	379	384	382	376	375	370	367	361	355	353	365	371	381	400	405	398	406	402	400	399	396	392	383
10	395	396	395	395	397	389	364	355	372	361	356	358	356	369	383	379	383	394	399	403	398	396	399	406	383
11	391	389	362	374	385	382	374	365	365	364	364	364	373	386	395	398	396	406	396	403	400	395	396	382	384
12	385	388	356	329	378	384	379	377	368	360	357	355	366	361	382	391	398	401	400	401	396	394	395	389	379
13	381	361	385	387	386	380	370	364	362	371	373	370	376	383	386	387	387	385	390	395	397	390	389	389	381
14	387	386	386	389	387	383	378	374	365	357	355	359	375	381	389	393	397	394	399	416	412	406	398	403	*386*
15	396	396	393	386	385	386	382	375	370	365	359	358	365	370	377	383	388	395	398	395	395	393	395	391	383
16	391	389	386	386	389	387	385	378	365	348	341	341	362	382	394	379	395	398	400	397	400	402	403	409	384
17	396	380	356	388	387	386	383	378	371	361	357	360	365	370	386	393	396	395	398	403	401	403	403	401	384
18 d	392	381	393	399	396	393	399	391	331	344	335	355	360	362	380	379	383	387	405	397	392	394	394	391	381
19	356	374	363	371	372	367	380	380	365	356	349	352	357	362	377	381	391	397	397	398	392	390	392	391	375
20 q	391	387	383	386	386	383	382	377	365	356	357	362	362	378	380	383	392	394	396	395	391	394	391	388	382
21 q	386	386	380	387	383	387	387	383	373	362	355	354	360	367	373	381	390	394	400	401	391	394	395	394	382
22	390	391	389	383	380	387	389	387	377	366	367	363	362	370	378	381	386	391	400	399	398	400	387	387	384
23	373	380	388	399	400	405	391	383	368	352	353	356	362	380	388	390	392	400	405	405	394	391	391	394	385
24	394	394	397	401	398	385	387	394	379	351	342	357	381	377	377	378	387	383	383	383	386	390	387	388	382
25 q	389	383	380	374	382	384	383	377	365	352	345	347	356	362	371	383	379	384	394	391	388	386	386	386	376
26 q	385	382	382	381	380	380	376	372	364	358	356	356	362	366	379	386	391	388	397	396	399	401	412	384	381
27	378	388	385	384	381	377	373	366	361	353	352	354	358	365	373	387	394	393	398	409	400	391	391	391	379
28 d	395	389	386	389	391	379	326	344	361	354	357	359	361	353	374	386	394	391	396	396	411	393	378	379	377
29 q	380	383	377	377	375	374	367	364	361	359	362	366	374	379	374	382	384	391	393	392	396	395	394	392	379
30	397	390	376	376	372	379	382	375	365	355	350	361	369	368	379	381	391	394	403	400	400	398	391	386	381
31 d	383	386	368	362	365	386	386	361	341	357	359	339	357	366	383	386	409	394	393	405	394	388	386	365	376
Mean	373	379	366	378	383	383	376	371	362	355	*353*	356	364	372	382	387	392	394	398	*401*	398	390	390	382	379

Corrections to be applied to all values: H, −6γ; D, −4·3′; V, +7γ.

MAGNETIC DECLINATION (WEST)

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

33 LERWICK (D) — 11° + — AUGUST 1944

	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	36·4	35·8	36·0	36·0	32·9	33·7	34·7	35·9	36·7	38·4	39·3	43·2	44·9	44·7	44·6	43·1	42·4	41·6	41·1	41·6	40·6	40·1	39·1	38·2	39·2
2 d	38·5	38·4	37·7	36·4	35·1	34·1	36·4	35·8	36·5	37·3	39·5	42·7	45·5	45·7	45·0	43·4	42·5	41·9	45·3	43·0	38·6	37·3	26·6	21·8	38·5
3 d	17·8	17·2	10·1	44·6	24·8	30·6	32·5	37·9	43·4	38·6	40·8	44·3	48·9	45·1	41·6	40·5	40·3	40·6	40·3	37·5	38·6	35·7	34·9	36·8	*36·0*
4	36·5	36·8	36·2	35·5	33·7	32·4	32·6	32·1	33·0	34·6	37·1	40·8	44·0	44·3	40·8	40·6	40·5	39·7	39·1	39·5	38·4	37·5	37·6	38·4	37·6
5	39·9	39·9	37·8	36·3	36·5	34·7	33·0	32·5	34·5	37·6	40·5	43·4	45·4	46·0	45·5	44·5	42·7	41·5	41·6	39·9	38·7	28·2	37·1	36·5	38·9
6	34·9	35·8	34·5	36·9	34·9	31·0	31·7	32·7	35·3	39·4	41·1	43·4	43·9	44·6	43·0	41·6	41·3	40·6	40·2	39·6	39·5	38·1	37·3	37·5	38·3
7	38·3	35·8	37·6	37·7	35·6	33·7	33·4	32·9	33·1	35·3	37·8	41·5	43·3	45·6	45·5	43·4	42·5	41·5	40·9	40·7	40·4	39·9	39·3	34·6	38·8
8	36·3	36·6	36·3	35·6	34·5	32·4	32·7	33·4	34·9	36·3	38·1	40·1	43·8	47·2	47·5	47·1	44·0	42·7	41·1	32·9	35·8	38·9	38·4	37·7	38·5
9	36·3	38·9	35·7	35·5	33·9	33·6	33·6	33·1	33·5	33·8	36·0	39·7	43·2	44·6	44·9	45·5	44·6	40·0	41·6	40·7	39·8	38·7	38·6	38·5	38·5
10	38·4	36·3	35·9	34·7	33·1	33·6	36·2	39·5	39·7	40·3	40·1	42·6	43·3	44·8	47·1	46·3	46·0	44·6	42·7	41·8	40·4	38·6	37·7	37·6	40·1
11	35·8	34·9	42·6	38·7	31·9	31·0	31·1	33·9	34·3	34·6	35·6	38·3	40·6	41·4	41·2	41·6	41·9	41·6	39·5	38·5	36·3	35·4	37·7	45·6	37·7
12	38·3	30·9	34·5	35·5	31·4	32·7	34·4	38·1	36·4	38·1	38·6	41·2	43·6	44·6	43·7	44·5	43·7	42·4	42·1	42·3	40·4	40·2	40·2	41·3	39·1
13	33·7	36·8	36·9	33·7	33·3	32·6	33·6	35·6	37·9	38·3	38·7	40·1	43·1	43·1	41·4	39·7	38·3	38·9	39·6	37·8	36·0	39·5	38·9	38·1	37·7
14	37·3	36·6	36·8	35·2	34·6	33·4	33·4	33·7	35·4	37·6	41·1	43·9	46·2	45·3	44·2	42·6	41·0	39·5	39·9	41·2	37·3	37·3	38·2	36·8	38·7
15	35·8	36·3	34·0	33·6	34·6	31·5	31·9	34·4	35·7	38·4	41·7	44·6	46·4	45·4	43·8	41·8	40·3	39·6	39·0	39·2	38·3	37·9	37·7	37·9	38·3
16	37·3	36·3	36·0	36·3	34·8	33·7	32·6	32·9	34·3	36·9	40·2	42·8	45·6	46·4	47·2	44·6	40·6	39·8	39·8	39·8	40·4	40·0	39·8	34·6	38·9
17	33·6	32·6	40·0	36·7	32·7	32·8	33·2	33·2	34·1	36·6	38·8	41·7	44·3	44·6	43·6	41·6	40·1	39·3	39·7	39·3	38·8	39·1	38·3	38·4	38·1
18 d	40·5	43·5	37·3	34·7	31·8	29·9	32·2	37·9	39·4	47·8	48·1	49·2	48·4	46·0	42·9	42·1	40·8	36·5	29·6	37·5	40·1	39·6	36·8	34·6	39·5
19	34·6	38·8	38·0	39·4	38·4	39·3	33·0	34·0	34·6	37·5	41·4	45·0	47·2	46·2	44·8	42·6	41·1	39·5	38·9	38·7	38·7	38·3	37·8	37·8	39·4
20 q	37·6	31·7	31·8	34·5	34·0	34·5	34·4	33·6	34·7	36·5	37·9	40·6	42·5	42·5	42·6	41·7	40·8	39·7	38·9	38·8	37·9	37·8	37·2	37·5	37·5
21 q	37·5	37·7	39·0	36·6	35·7	34·5	33·2	33·8	34·0	36·5	39·7	42·3	45·1	46·3	45·4	43·1	40·7	40·0	39·4	35·9	36·2	37·8	38·4	38·5	38·4
22	38·5	39·1	36·2	34·5	36·5	35·7	34·2	34·4	35·1	36·8	41·5	43·1	45·6	45·5	44·4	42·7	41·4	40·1	39·8	39·8	39·6	38·0	31·1	34·8	38·7
23	39·9	40·6	32·0	32·3	31·0	31·6	33·1	37·7	39·2	42·0	44·3	47·6	48·3	45·7	44·0	41·7	42·2	42·7	40·7	40·0	37·9	38·6	38·4	38·9	39·6
24	37·7	37·6	39·5	34·3	33·2	33·4	34·8	36·6	39·8	40·4	43·6	47·9	50·3	55·5	52·6	47·2	43·1	41·6	39·3	39·7	38·6	37·5	34·7	34·7	*40·6*
25 q	37·0	36·9	36·5	38·8	36·8	34·7	33·1	32·6	33·6	34·8	36·6	41·0	44·3	45·2	44·4	42·9	40·7	38·9	38·2	38·3	38·6	38·3	37·8	37·7	38·2
26 q	37·7	37·6	37·2	36·8	36·0	35·4	34·6	34·2	34·0	35·3	38·5	41·6	43·0	44·0	43·9	42·8	41·2	40·7	40·7	36·3	35·7	38·9	31·2	29·7	37·8
27	37·4	35·6	35·5	35·1	34·8	35·3	31·8	31·7	33·1	35·8	38·5	41·8	44·2	44·5	42·9	40·6	38·9	38·5	39·9	39·7	35·3	38·1	38·8	37·5	37·7
28 d	33·8	35·0	35·3	32·8	31·9	31·0	43·6	57·8	40·9	38·4	39·3	44·8	49·3	47·8	45·0	43·5	42·0	38·8	39·4	31·6	28·6	31·9	36·6	36·9	39·0
29 q	37·9	37·6	36·1	35·8	34·7	34·0	34·0	34·3	35·4	37·7	41·2	43·3	44·6	43·8	41·2	39·3	37·4	36·4	39·7	40·3	40·1	39·6	39·1	36·3	38·3
30	39·8	32·0	31·2	34·2	31·1	33·9	34·2	36·3	36·9	39·7	43·4	45·4	45·7	44·9	41·9	39·9	39·9	40·7	39·3	37·9	41·2	40·5	40·0	38·9	38·7
31 d	40·3	41·1	36·8	30·2	35·0	36·8	33·9	32·9	37·4	38·0	41·4	45·2	47·2	46·2	44·4	42·2	39·6	33·0	39·4	35·5	37·5	39·5	41·5	36·5	38·8
Mean	36·6	36·2	35·5	35·8	33·8	*33·5*	33·8	35·3	36·0	37·7	40·0	43·0	45·2	*45·4*	44·2	42·7	41·4	40·1	39·9	38·9	38·2	38·0	37·3	36·8	38·6

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

34 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — AUGUST 1944

	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	929	928	929	923	914	918	918	922	925	923	922	921	927	926	929	928	928	929	934	932	935	938	937	936	927
2 d	936	936	935	933	930	926	921	920	920	917	920	918	917	921	929	931	934	938	940	940	920	744	753	699	903
3 d	618	610	478	530	614	738	814	863	867	916	942	942	942	953	959	947	945	943	943	950	944	935	916	886	*841*
4	865	876	911	933	939	942	942	940	940	940	941	940	938	945	951	945	944	946	945	942	941	933	933	931	933
5	927	921	928	934	938	937	937	937	939	940	936	931	934	936	935	937	945	951	949	942	944	938	932	925	936
6	922	925	926	923	919	934	935	935	934	927	927	923	918	923	925	935	946	957	951	946	939	933	924	917	931
7	915	933	925	923	932	941	942	940	938	934	930	925	926	925	934	940	944	941	938	936	935	932	924	921	932
8	927	929	932	936	940	940	936	933	932	928	924	918	917	916	923	935	952	952	954	953	931	928	932	931	932
9	932	917	901	916	927	938	940	940	935	931	926	926	929	927	926	927	936	948	944	944	942	941	937	930	932
10	921	925	931	931	932	936	938	927	915	919	923	924	927	926	932	946	950	942	945	943	943	942	940	916	932
11	896	884	875	861	897	921	931	933	934	939	935	932	927	928	931	932	935	939	947	946	945	942	932	894	922
12	863	900	884	817	853	880	895	899	915	922	922	919	920	930	927	932	933	936	939	937	941	941	931	893	910
13	888	880	894	922	931	935	936	931	930	927	929	931	930	932	938	936	940	942	941	943	945	942	941	941	929
14	940	939	937	936	937	937	936	933	932	926	921	914	911	916	925	926	927	932	930	928	937	925	932	931	929
15	934	932	931	937	930	931	930	932	929	931	932	931	933	937	940	937	940	941	939	943	940	941	939	939	935
16	938	939	939	937	934	933	931	930	929	928	919	913	916	927	937	951	952	947	941	941	937	935	934	901	933
17	895	901	912	898	924	932	934	936	936	934	928	928	929	934	937	937	939	940	936	934	938	935	934	932	928
18 d	925	911	915	927	936	932	921	915	932	916	927	928	936	943	947	952	951	967	979	962	944	939	936	928	936
19	915	862	889	912	906	905	911	921	928	936	934	932	933	942	951	958	952	948	944	942	942	938	935	933	928
20 q	916	903	921	931	936	941	937	937	935	932	931	928	932	937	943	943	942	942	942	942	942	933	928	932	934
21 q	933	936	933	932	936	934	935	932	931	930	927	928	927	929	933	937	941	942	943	947	947	940	934	932	935
22	932	931	928	932	937	932	934	934	935	935	928	927	929	932	936	939	942	940	937	939	939	935	930	915	933
23	903	837	878	905	921	917	921	917	922	922	917	924	928	935	949	968	984	989	984	979	975	955	947	940	934
24	938	933	917	899	906	917	922	921	926	933	931	918	926	947	974	987	973	954	944	942	942	940	942	939	936
25 q	932	934	937	937	936	940	942	942	939	939	936	931	929	931	933	943	954	953	950	951	946	943	942	937	*940*
26 q	937	937	937	936	937	940	941	942	939	934	931	926	926	926	927	933	943	947	939	943	942	935	915	915	935
27	910	915	927	932	936	934	936	941	941	937	936	931	931	933	933	933	936	940	936	937	947	947	940	934	934
28 d	927	932	926	929	931	932	925	884	896	915	917	925	936	949	946	949	961	965	953	949	923	914	921	928	931
29 q	928	925	930	933	937	937	936	934	931	927	923	917	916	921	927	934	941	942	940	937	936	937	937	932	932
30	909	894	904	908	901	905	916	924	928	929	924	920	926	934	937	941	939	936	938	947	940	942	943	932	926
31 d	921	894	874	874	890	903	920	930	932	927	927	934	932	935	938	943	963	989	962	942	935	933	909	895	925
Mean	909	904	*903*	906	914	922	926	927	928	929	928	926	927	932	937	941	946	*948*	945	944	941	931	927	917	927

Corrections to be applied to all values: H, −6γ; D, −4·3′; V, +7γ.

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

35 LERWICK — AUGUST 1944

	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 11° +	Minimum 11° +	Range	Maximum 46,000γ +		Minimum 46,000γ +		Range			
	h. m.	γ	γ	h. m.	γ	h. m.	′ ′	′	h. m.	γ	γ	h. m.	γ			°A.
1	18 14	409	331	12 30	78	12 17	47·5	31·4	4 24	16·1	21 10	940	911	4 22	29	1,2,1,1,3,1,1,0	10	1	88·0
2 d	18 56	*469*	-77	24 0	546	19 2	50·6	16·0	23 0	34·6	20 13	946	639	23 49	307	0,1,2,2,3,4,4,7	23	2	88·1
3 d	20 55	411	*-396*	2 23	*807*	3 23	59·4	*-20·1*	2 35	*79·5*	13 17	963	*322*	2 34	*641*	8,5,4,4,3,2,3,3	32	2	89·0
4	21 17	396	334	0 59	62	13 10	45·3	31·0	7 48	14·3	14 12	952	858	0 11	94	3,1,1,1,1,2,1,1	11	1	89·1
5	21 18	421	343	9 53	78	13 37	46·5	22·5	21 13	24·0	17 23	953	921	1 38	32	1,1,0,2,2,2,2,3	13	1	89·5
6	16 43	407	338	11 30	69	13 10	46·0	30·4	5 20	15·6	17 22	961	914	4 17	47	2,2,2,2,2,2,2,2	16	0	89·4
7	15 30	408	348	12 10	60	14 6	46·5	32·5	8 11	14·0	16 20	945	914	0 32	31	2,2,1,1,2,2,1,2	13	0	88·9
8	19 39	439	344	10 9	95	13 55	48·6	27·0	19 31	21·6	19 5	967	914	13 57	53	1,1,0,1,2,3,3,2	13	1	88·1
9	16 36	415	347	11 20	68	15 45	45·6	31·8	6 5	13·8	17 31	952	896	2 32	56	2,2,2,1,1,2,1,2	13	1	87·5
10	23 11	412	333	7 25	79	14 13	48·5	31·9	5 22	16·6	16 21	957	905	24 0	52	1,1,3,1,2,2,1,2	13	1	87·7
11	17 32	416	355	2 51	61	23 31	53·5	29·6	6 0	23·9	19 53	949	838	24 0	111	3,3,2,1,2,2,3,4	20	1	87·8
12	17 51	417	293	3 17	124	0 0	46·9	28·6	4 5	18·3	20 30	942	785	3 33	157	3,4,2,2,2,2,1,3	19	1	88·0
13	20 8	403	347	1 13	56	12 47	43·9	32·2	5 34	*11·7*	20 0	947	874	1 50	73	3,2,2,1,1,2,2,1	14	0	87·7
14	21 20	429	349	10 23	80	12 45	46·8	29·4	20 41	17·4	20 51	952	908	12 30	44	0,0,0,1,2,2,3,3	11	1	87·1
15	1 52	396	353	10 45	*43*	12 33	47·2	30·0	7 0	17·2	19 25	946	927	4 40	*19*	2,2,2,1,2,1,1,0	11	0	87·0
16	23 27	416	336	11 9	80	14 40	48·4	32·0	7 4	16·4	16 48	954	892	23 58	62	0,1,1,2,2,2,1,3	12	1	86·8
17	19 56	411	347	2 22	64	13 9	45·3	29·9	1 41	15·4	17 9	941	889	3 10	52	3,3,0,0,1,1,1,1	10	0	87·0
18 d	18 35	416	310	8 50	106	10 5	52·5	26·2	18 8	26·3	18 6	985	900	1 53	85	2,2,4,3,2,3,3,2	21	1	87·1
19	18 0	400	336	0 50	64	12 19	47·4	30·6	0 18	16·8	15 24	959	840	1 41	119	4,2,2,1,1,1,0,1	12	1	87·1
20 q	21 38	411	355	9 35	56	14 6	43·4	27·4	1 44	16·0	19 0	945	896	1 25	49	3,1,0,1,2,1,0,2	10	0	86·0
21 q	19 20	407	350	11 12	57	13 15	46·4	32·9	6 33	13·5	20 22	951	925	11 57	26	1,0,0,0,1,0,2,1	5	0	86·1
22	21 40	407	360	11 49	47	12 51	46·4	29·7	22 12	16·7	17 0	942	906	23 52	36	2,2,0,1,1,1,0,3	10	0	85·5
23	5 12	412	349	9 37	63	1 0	52·1	29·6	4 42	22·5	17 25	991	827	1 42	164	4,2,2,1,2,2,2,2	17	1	83·8
24	3 23	407	338	10 51	69	13 42	57·7	31·8	3 43	25·9	15 22	993	894	3 20	99	2,2,2,2,3,3,1,2	17	1	86·0
25 q	18 22	398	342	11 24	56	13 8	45·6	32·2	7 8	13·4	16 30	982	927	11 42	55	1,1,0,1,0,2,0,0	5	0	87·0
26 q	22 27	430	353	11 30	77	14 42	44·4	27·3	23 19	17·1	16 52	949	903	22 32	46	0,0,1,0,1,2,2,3	9	0	85·2
27	18 52	419	352	11 18	67	13 9	44·8	30·6	6 42	14·2	21 0	953	902	0 45	51	2,1,0,0,1,2,2,2	10	0	87·9
28 d	20 32	426	272	6 51	154	7 11	*65·1*	23·4	20 53	41·7	16 48	975	869	7 33	106	2,2,4,2,3,2,3,3	21	1	87·7
29 q	18 3	402	356	10 39	46	12 55	44·9	33·2	7 24	*11·7*	17 20	946	915	12 20	31	1,0,1,2,2,1,1,1	9	0	85·2
30	18 9	418	346	10 50	72	13 16	46·6	27·8	1 57	18·8	19 16	949	889	1 48	60	3,2,2,2,2,1,2,1	15	1	87·0
31 d	16 59	432	322	11 21	110	12 28	48·3	25·7	3 48	22·6	17 23	*998*	866	3 39	132	3,3,3,3,2,3,3,3	23	1	87·1
Mean	— —	415	302	— —	113	— —	48·5	27·6	— —	20·9	— —	958	858	— —	100	1·7	14·1	0·68	87·3

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.

36 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — SEPTEMBER 1944

	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	346	309	370	391	388	390	386	378	365	353	352	353	357	371	378	367	383	391	396	392	388	388	389	400	374
2 d	407	335	358	348	370	361	316	339	350	347	351	347	365	382	377	381	382	418	404	390	387	387	391	377	370
3	371	355	374	380	382	379	375	360	360	357	351	355	374	378	381	391	378	382	388	389	387	385	387	388	375
4	387	382	378	378	376	378	376	370	364	357	355	358	361	376	384	387	394	395	409	391	391	375	347	342	375
5	370	388	382	383	387	381	378	374	360	347	344	351	353	369	379	385	387	388	387	387	387	388	391	388	376
6	388	387	387	387	386	385	382	378	369	357	351	354	369	377	387	396	404	413	397	400	401	401	399	388	385
7	389	388	388	388	386	382	387	388	373	352	348	347	361	366	375	378	391	395	395	394	393	391	388	388	380
8	387	386	406	387	386	386	385	381	370	353	347	345	354	366	366	367	379	386	392	391	392	376	373	375	377
9 q	378	382	382	382	376	374	380	373	366	358	354	348	356	366	372	377	379	383	388	395	395	391	395	387	377
10	388	383	382	382	382	384	385	373	362	358	352	352	361	377	382	380	390	393	400	404	390	393	387	388	380
11	394	390	384	385	385	382	375	374	370	364	362	362	364	374	382	382	387	389	392	395	398	400	387	393	382
12	390	387	377	382	394	394	383	377	362	357	346	349	357	364	386	391	396	386	387	391	390	393	387	395	380
13	382	388	387	387	388	387	387	381	370	365	365	364	368	374	386	389	394	394	394	395	403	401	398	389	385
14	386	378	375	392	381	405	395	379	373	366	364	362	367	378	367	386	390	385	384	394	394	394	393	391	382
15 q	395	390	391	389	388	391	387	381	368	352	355	368	375	374	377	396	380	385	390	393	393	395	394	394	383
16 q	391	389	387	385	380	385	381	372	370	356	358	364	370	381	382	373	378	388	395	395	391	387	387	389	381
17 q	388	387	387	387	385	387	386	384	378	367	362	363	367	381	384	395	399	390	399	403	403	400	400	402	387
18	402	385	388	387	385	378	386	381	369	360	363	367	373	377	378	383	385	391	396	390	384	385	390	385	382
19 q	385	384	386	387	386	387	389	383	376	368	361	360	365	375	374	382	387	391	393	394	394	393	393	394	383
20	394	391	390	391	389	391	391	385	378	371	368	366	369	371	374	378	391	403	399	406	410	400	370	329	384
21 d	389	382	265	355	390	387	386	367	366	355	344	348	354	365	367	369	381	386	386	390	386	391	389	356	369
22	384	384	377	372	377	384	385	385	380	369	360	354	356	361	372	382	382	386	389	403	397	374	350	347	375
23	362	371	368	360	373	393	390	382	379	367	359	364	366	371	371	378	384	397	406	413	406	380	341	238	372
24 d	274	252	352	371	372	376	374	371	337	338	356	362	367	363	358	376	378	381	394	384	380	387	390	373	*361*
25	366	347	369	379	372	372	373	372	367	359	356	358	363	377	374	379	380	382	384	385	378	369	378	382	372
26	354	376	380	384	386	386	377	369	363	355	354	355	359	372	381	371	373	384	385	389	390	395	388	384	375
27 d	382	382	382	382	378	378	378	378	359	359	354	354	355	364	376	385	394	391	390	384	369	375	383	381	376
28	377	376	369	372	382	393	381	377	365	359	359	359	362	372	376	382	380	381	379	381	383	387	387	385	376
29	384	379	380	382	377	386	383	381	381	360	351	351	354	363	362	377	384	388	390	388	380	396	381	385	377
30 d	383	387	387	385	386	389	391	389	378	373	371	369	371	371	398	446	386	372	387	478	363	370	367	377	*386*
Mean	379	373	376	381	382	384	381	376	368	359	*356*	357	363	372	377	384	386	390	393	*396*	390	388	383	376	378

Corrections to be applied to all values: H, −6γ; D, −4·3′; V, +7γ.

MAGNETIC DECLINATION (WEST)

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

37 LERWICK (D) — 11° + — SEPTEMBER 1944

	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	32·1	36·9	33·2	31·9	32·6	32·8	33·1	35·1	34·5	37·3	39·8	42·6	45·6	42·5	41·8	40·7	38·8	38·0	37·9	38·7	38·5	35·8	37·6	37·8	37·3
2 d	33·8	30·9	27·6	27·9	28·7	37·6	41·2	40·9	37·9	40·9	42·9	44·4	45·7	46·7	46·0	44·6	39·9	32·9	33·6	34·2	38·0	33·8	36·5	30·7	37·4
3	33·4	36·8	35·8	35·7	35·0	34·2	33·8	34·1	35·8	37·6	42·2	43·3	46·3	46·6	44·6	43·2	40·4	39·5	38·9	38·7	37·6	37·4	37·8	37·6	38·6
4	37·0	35·3	37·4	34·0	34·9	34·2	34·0	34·3	34·7	36·5	39·1	41·6	44·2	45·1	43·5	41·7	41·1	40·4	41·3	36·8	28·2	23·9	26·3	31·5	36·5
5	34·9	29·3	33·8	33·6	33·9	32·8	34·1	33·5	33·9	35·8	38·5	42·1	43·5	43·4	42·0	40·6	38·6	38·4	38·7	38·5	38·0	37·4	37·0	35·0	37·0
6	38·1	37·7	37·2	36·7	36·2	35·7	35·2	35·7	36·1	37·4	40·3	43·5	45·6	45·7	44·5	43·4	43·2	42·7	42·4	42·1	40·8	39·7	36·8	34·6	*39·6*
7	36·7	37·2	36·9	36·1	35·0	36·0	36·0	34·1	36·8	38·4	41·3	42·1	44·1	44·7	44·1	41·2	39·0	38·0	38·3	38·5	38·6	38·4	37·8	37·5	38·6
8	36·8	36·9	36·7	36·9	35·7	35·0	34·7	34·5	36·1	38·7	40·1	43·0	46·3	48·1	48·0	46·9	43·7	41·1	40·2	38·2	29·1	28·6	30·4	36·9	38·4
9 q	41·5	38·1	36·6	35·8	35·5	36·2	35·0	34·6	34·8	35·6	38·3	41·4	43·6	44·8	43·9	41·9	40·1	38·9	38·4	38·2	35·2	39·2	37·6	36·5	38·4
10	36·3	34·9	36·0	35·0	33·2	33·9	34·6	35·0	34·8	35·6	37·8	41·6	43·1	44·0	43·9	41·9	41·1	41·3	40·2	40·0	39·1	38·7	35·3	36·0	38·1
11	37·0	36·9	37·1	36·5	36·3	35·0	33·8	34·4	36·0	37·0	39·5	42·5	44·1	44·1	43·2	41·5	40·9	40·1	39·0	39·2	38·7	32·8	34·0	39·2	38·3
12	34·2	34·9	37·1	34·7	33·9	34·3	34·4	35·3	37·5	39·8	41·1	44·1	46·5	44·8	44·0	41·6	39·8	39·6	37·8	36·7	37·7	35·3	36·9	40·2	38·4
13	36·9	36·6	36·6	36·8	37·0	36·6	35·6	35·1	34·9	36·5	38·2	41·5	43·2	43·0	42·0	40·5	40·2	36·6	38·8	40·1	39·7	38·0	29·0	32·6	37·7
14	32·8	32·9	40·4	31·7	33·8	33·5	34·8	34·2	35·4	37·5	38·9	40·7	43·8	44·9	44·1	40·7	41·6	40·8	39·5	40·9	39·8	38·3	36·8	36·0	38·1
15 q	33·8	35·5	34·0	34·7	36·1	36·2	35·9	36·0	36·2	38·2	39·8	41·8	42·9	41·9	39·9	38·2	37·2	37·6	38·1	37·9	37·7	37·9	37·5	37·5	37·6
16 q	37·2	37·0	36·9	35·0	36·4	34·8	34·2	34·8	35·5	36·9	39·6	41·7	42·6	42·5	41·0	39·6	37·9	37·3	37·3	37·7	37·0	37·6	37·8	37·5	37·7
17 q	36·5	35·7	35·4	35·0	34·9	35·1	34·7	34·0	34·6	36·7	38·7	40·6	41·2	42·6	41·7	41·6	41·7	40·3	39·6	38·9	39·0	38·2	36·9	36·9	37·9
18	34·6	36·6	32·4	33·1	32·9	35·1	39·8	37·6	37·0	38·2	39·5	40·6	41·5	42·1	41·1	41·3	39·6	39·4	38·3	38·2	36·1	35·2	36·0	35·1	33·9	37·3
19 q	35·6	34·8	36·2	35·9	36·2	35·8	34·6	33·4	33·5	35·1	37·4	39·3	40·2	41·6	41·6	40·6	39·2	38·7	38·5	38·1	37·7	37·1	36·9	36·7	37·3
20	36·0	36·3	36·3	36·0	35·9	35·6	34·1	33·6	33·9	35·1	38·8	42·8	45·2	45·9	45·2	43·1	40·9	41·8	42·4	40·9	41·0	38·6	33·2	25·4	38·3
21 d	29·7	24·8	36·8	33·3	30·7	32·2	31·9	34·4	35·4	38·2	37·2	40·1	43·1	43·8	43·6	42·0	40·0	40·0	39·2	36·7	37·1	36·7	36·3	36·2	36·6
22	38·1	36·3	33·2	34·2	35·0	36·1	35·8	34·8	34·0	34·4	36·2	39·1	41·7	42·9	42·9	42·8	41·4	40·2	40·2	27·6	34·6	29·8	22·3	24·0	*35·7*
23	25·4	28·3	34·4	38·1	37·1	36·0	34·8	33·2	34·4	36·0	37·9	39·9	43·0	44·0	47·9	41·8	39·9	40·5	40·9	41·0	41·0	31·8	21·4	26·9	36·5
24 d	32·1	37·5	31·6	29·1	33·8	33·2	33·2	33·6	35·0	34·1	37·9	40·2	45·0	43·4	39·0	39·9	39·8	39·0	38·8	34·0	33·3	32·3	31·1	32·0	35·8
25	34·8	39·9	39·0	37·0	35·6	36·0	35·3	35·0	35·3	36·7	38·3	42·0	43·0	44·1	43·6	41·0	40·8	39·2	37·5	27·2	33·2	32·9	37·8	38·8	37·7
26	43·8	41·3	34·0	34·0	34·2	35·0	35·1	34·9	34·3	36·8	39·5	42·9	43·7	44·5	45·5	44·0	41·3	39·7	38·3	38·2	37·0	28·1	30·1	36·9	38·0
27 d	37·1	37·1	37·1	36·6	34·9	34·5	35·0	33·8	35·3	35·7	38·2	43·1	45·0	44·0	42·3	41·0	40·0	38·7	34·2	34·3	28·3	30·1	37·2	36·9	37·1
28	37·7	36·4	36·5	38·2	36·0	34·3	33·5	33·3	34·2	35·0	36·7	39·8	42·1	42·5	41·3	39·2	38·3	37·4	35·1	37·8	36·8	35·2	37·0	37·1	37·1
29	36·8	37·4	37·0	36·8	39·3	38·1	35·0	33·4	34·3	36·0	37·1	39·1	41·1	43·2	42·2	41·2	40·1	39·0	38·9	39·2	32·3	28·3	36·0	36·3	37·4
30 d	36·1	36·1	35·3	35·3	35·5	35·3	35·6	33·9	33·8	34·9	37·0	41·2	43·2	46·1	52·1	36·0	43·8	43·2	41·8	19·2	36·7	35·9	34·0	29·8	37·2
Mean	35·6	35·5	35·6	34·9	34·9	35·0	35·0	34·7	35·2	36·8	38·9	41·6	43·7	*44·1*	43·6	41·4	40·3	39·3	38·8	36·9	36·6	34·8	*34·3*	34·8	37·6

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

38 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — SEPTEMBER 1944

	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	859	830	867	908	924	928	932	931	929	928	928	927	932	938	950	949	945	943	940	937	936	938	935	917	923
2 d	863	842	854	848	858	860	867	890	912	925	928	946	956	948	952	959	964	959	967	956	932	929	880	872	*911*
3	865	848	892	927	938	938	939	944	943	935	933	929	923	927	933	940	948	941	938	938	940	938	935	936	928
4	935	932	930	934	938	937	939	937	935	934	933	929	926	927	930	936	938	943	946	959	966	939	897	845	932
5	821	860	908	928	934	936	939	939	938	936	933	928	929	935	942	946	947	945	943	942	939	938	936	932	928
6	929	929	934	938	942	944	943	939	938	935	929	922	918	924	932	939	939	941	946	942	939	938	939	943	936
7	939	937	938	939	942	944	934	935	935	938	934	931	929	930	934	940	947	950	950	946	944	942	939	937	939
8	937	937	938	933	937	940	944	943	941	940	943	942	941	946	961	969	960	950	945	949	960	950	942	937	945
9 q	899	908	930	934	939	941	941	941	939	941	938	936	934	934	934	937	941	942	943	943	943	942	934	938	935
10	936	937	933	928	930	933	934	939	940	941	936	932	928	934	941	941	937	935	937	941	955	952	955	951	939
11	935	924	922	929	935	940	942	939	935	936	935	932	933	936	941	945	946	946	945	942	942	931	913	883	934
12	903	920	920	909	920	928	932	935	935	935	933	933	936	938	938	941	947	947	946	947	945	940	940	929	933
13	919	922	930	935	937	938	938	940	940	935	933	930	930	936	936	940	940	950	946	940	936	935	921	908	934
14	906	919	910	904	919	914	920	929	931	933	929	926	927	930	946	954	958	973	967	953	945	943	941	941	934
15 q	935	939	940	937	937	930	933	935	937	937	935	928	930	935	938	938	936	935	933	933	934	934	935	936	935
16 q	937	938	938	932	929	922	927	931	930	931	931	931	931	935	942	950	947	941	939	937	938	939	938	938	935
17 q	937	940	942	938	939	937	935	932	930	933	936	936	938	939	940	936	937	940	937	935	934	935	936	932	936
18	925	919	882	904	919	929	921	923	930	933	931	932	934	940	952	952	949	946	944	947	950	944	938	939	933
19 q	936	936	939	939	941	940	941	942	940	936	931	928	930	934	940	940	940	940	940	938	936	936	935	935	937
20	934	936	937	937	939	939	937	935	933	930	929	927	925	929	933	938	940	939	945	946	943	944	938	874	934
21 d	914	904	815	814	902	926	931	937	932	932	935	929	932	938	942	944	950	951	953	954	953	948	948	928	925
22	913	904	919	921	926	931	931	938	938	937	933	930	930	931	935	939	948	951	957	958	927	931	893	826	927
23	856	879	906	921	921	928	935	942	941	936	932	929	931	933	936	936	937	936	934	935	953	964	929	873	926
24 d	830	762	853	899	921	933	945	945	948	954	944	937	941	959	976	958	947	943	946	966	963	944	881	887	924
25	905	898	888	910	924	932	937	941	941	939	937	938	935	937	946	948	946	945	953	965	948	935	921	888	932
26	862	838	904	922	929	933	938	944	946	944	943	940	936	934	943	952	946	943	943	942	946	935	936	937	931
27 d	939	940	940	934	928	935	939	938	941	943	942	939	944	944	942	941	943	969	1001	986	956	914	909	940	944
28	943	946	942	935	937	936	942	941	945	947	947	946	944	942	945	947	949	948	952	949	948	942	936	939	944
29	942	942	940	938	928	917	929	933	932	940	942	942	944	943	946	942	943	944	948	949	957	939	940	943	940
30 d	944	941	941	941	940	938	937	937	938	937	935	933	938	952	983	1083	1029	973	960	996	915	953	933	821	*950*
Mean	910	*907*	914	921	928	931	933	936	936	937	935	933	933	937	944	*949*	948	947	948	949	944	940	928	913	933

Corrections to be applied to all values: H, −6γ; D, −4·3′; V, +7γ.

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

39 LERWICK — SEPTEMBER 1944

	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 11° +		Minimum 11° +		Range	Maximum 46,000γ +		Minimum 46,000γ +		Range				
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ				°A.
1	23 35	423	279	1 9	144	12 11	47·4	25·9	0 41	21·5	14 49	959	824	1 8	135	4,3,2,2,3,2,1,3	20	1	87·0
2 d	17 30	439	301	6 9	138	11 54	48·4	24·0	4 10	24·4	18 41	970	826	1 1	144	4,3,3,2,3,3,4,3	25	1	86·2
3	15 40	398	323	1 19	75	12 56	47·9	31·5	0 0	16·4	16 27	949	836	1 37	113	3,2,2,2,2,2,1,0	14	1	85·8
4	18 7	413	314	23 25	99	13 9	46·8	22·7	21 2	24·1	20 35	975	818	24 0	157	2,1,0,2,2,1,3,4	15	1	85·0
5	1 1	405	342	10 27	63	13 7	44·2	25·2	1 0	19·0	16 34	950	815	0 40	135	4,1,0,2,1,1,0,1	10	0	84·2
6	17 30	426	343	11 40	83	12 56	47·6	33·5	22 47	14·1	18 1	950	917	12 3	33	1,0,0,2,2,2,1,2	10	0	84·0
7	18 27	398	337	11 15	61	13 44	45·4	33·1	7 6	12·3	18 1	952	927	12 0	25	1,2,2,1,1,1,0,0	8	1	84·0
8	21 06	402	341	10 54	61	13 55	50·4	21·3	20 57	29·1	15 9	971	924	24 0	47	0,1,2,0,2,2,3,4	14	1	84·0
9 q	20 12	412	347	11 22	65	13 14	45·6	29·8	20 10	15·8	19 47	946	888	0 48	58	3,1,0,1,1,1,3,2	12	0	83·8
10	19 17	407	348	11 3	59	13 52	45·0	31·8	4 51	13·2	20 33	960	927	2 58	33	1,1,1,1,1,2,2,2	11	0	83·4
11	21 48	423	354	11 55	69	12 8	45·9	28·0	21 19	17·9	15 31	946	876	23 22	70	2,2,2,2,2,1,2,3	16	1	83·8
12	16 23	403	330	10 52	73	12 37	47·7	32·8	0 37	14·9	16 46	951	893	0 0	58	2,2,2,2,2,2,1,3	16	1	84·1
13	21 55	411	358	11 45	53	12 18	43·8	25·5	22 56	18·3	17 42	956	902	23 35	54	2,0,0,1,1,2,2,3	11	1	85·1
14	5 48	412	353	14 37	59	13 49	47·3	29·7	3 38	17·6	17 47	982	891	2 51	91	3,2,2,1,3,2,2,1	16	1	85·6
15 q	0 44	397	347	10 16	50	12 27	43·2	32·9	3 0	10·3	2 35	940	926	11 59	*14*	1,2,1,2,1,0,0,0	7	0	85·7
16 q	18 10	398	356	10 22	42	13 36	43·7	33·6	5 46	*10·1*	15 46	952	921	5 30	31	0,1,1,2,2,2,0,0	8	0	85·3
17 q	16 43	416	358	12 2	58	13 6	43·7	33·4	6 35	10·3	17 3	944	924	24 0	20	0,0,0,1,2,2,1,1	7	0	85·2
18	0 8	408	355	9 36	53	13 58	42·9	26·5	2 37	16·4	14 55	956	871	2 28	85	3,2,1,2,2,1,2,1	14	1	85·1
19 q	18 42	397	357	11 6	*40*	14 1	43·4	32·7	8 9	10·7	7 20	943	928	11 33	15	1,0,0,1,2,0,0,0	4	0	86·0
20	20 44	417	273	23 31	144	12 59	47·7	13·2	23 42	34·5	19 0	951	814	23 18	137	0,0,0,1,2,2,2,4	11	1	86·0
21 d	1 0	401	197	2 41	204	2 32	54·7	13·4	1 48	41·3	18 53	962	734	2 55	228	5,5,2,2,2,2,2,3	23	1	86·0
22	19 54	431	285	23 7	146	13 20	43·9	11·7	22 56	32·2	19 27	980	788	23 35	192	3,1,1,2,1,1,4,5	18	1	85·4
23	19 52	422	*144*	23 53	*278*	13 42	45·0	13·5	22 44	31·5	21 17	1001	799	23 58	202	4,3,1,2,1,1,3,6	21	1	85·3
24 d	22 0	412	150	0 0	262	0 54	50·4	17·8	0 23	32·6	14 24	986	*725*	1 29	261	5,3,3,3,3,2,3,4	26	1	85·1
25	19 52	407	342	1 5	65	13 55	45·4	19·2	19 49	26·2	19 29	973	878	23 18	95	3,2,1,2,2,1,4,3	18	1	84·9
26	21 22	408	308	0 28	100	0 49	48·7	22·4	21 54	26·3	15 18	956	884	0 52	72	4,2,1,2,2,2,2,3	18	1	84·0
27 d	18 25	411	342	11 46	69	12 19	46·7	17·0	20 17	29·7	18 25	1021	885	22 0	136	0,1,2,2,2,3,4,3	17	1	83·0
28	21 32	400	353	9 10	47	13 30	43·9	32·2	7 42	11·7	18 40	955	932	22 24	23	1,2,1,2,1,2,2,2	13	0	82·0
29	21 09	410	347	10 29	63	13 40	44·8	22·2	21 2	22·6	20 32	962	912	5 13	50	1,2,1,1,2,1,3,3	14	0	81·9
30 d	19 31	*551*	299	20 23	252	14 55	*59·0*	*−11·2*	19 44	*70·2*	15 25	*1128*	761	24 0	*367*	0,1,1,1,4,5,6,5	23	2	82·0
Mean	− −	415	316	− −	99	− −	46·7	24·2	− −	22·5	− −	968	865	− −	103	1·8	14·7	0·70	84·6

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.

40 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — OCTOBER 1944

	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	346	367	369	372	367	373	373	376	373	363	364	354	360	366	379	369	384	376	375	377	388	380	354	359	369
2	360	366	376	378	379	378	377	373	367	360	356	359	358	367	373	381	383	384	385	386	392	381	381	368	374
3	370	366	370	373	352	363	382	384	363	359	361	364	368	373	376	372	389	382	384	393	397	360	365	335	371
4	347	373	372	379	379	377	375	364	355	350	352	360	372	381	382	386	379	381	386	394	379	382	385	383	374
5 q	384	384	382	379	381	382	381	373	360	347	340	343	355	370	381	388	392	384	386	387	386	384	384	386	376
6	385	385	385	392	392	390	384	382	370	359	360	366	371	380	385	398	402	399	391	386	385	372	391	369	*382*
7	376	378	378	377	378	385	384	379	369	360	355	354	359	369	381	384	381	387	389	383	394	384	391	383	377
8 q	380	380	380	382	384	385	386	385	374	363	356	356	363	369	377	380	385	391	391	391	390	389	387	390	380
9 q	395	383	381	377	382	389	382	378	377	362	357	361	368	376	379	382	384	387	390	390	389	389	390	391	381
10	389	388	389	390	391	392	390	383	374	365	361	363	369	376	385	390	389	392	390	386	398	374	359	325	379
11 d	272	277	196	248	395	398	384	380	376	379	384	385	395	408	408	454	566	424	391	385	376	380	363	365	375
12	367	360	356	361	371	368	369	373	368	360	356	351	359	373	375	377	368	373	375	380	377	376	369	373	368
13	376	377	377	379	382	385	384	381	376	368	364	366	377	372	376	373	382	385	377	372	368	367	366	368	375
14 d	385	380	379	379	380	384	381	386	373	354	345	347	359	372	380	398	382	379	373	368	334	308	99	-314	330
15 d	-163	23	141	123	339	379	373	365	366	338	334	347	366	369	372	377	365	380	380	381	338	283	272	363	*300*
16	369	375	373	373	377	380	368	370	373	359	359	357	363	364	369	379	380	376	371	373	376	373	364	362	370
17	349	363	374	377	382	382	383	382	373	367	363	356	360	367	376	378	382	386	388	389	386	387	370	345	374
18	343	358	367	382	386	386	376	373	373	369	364	354	365	373	377	377	378	376	381	385	385	385	385	380	374
19 q	381	378	377	379	378	383	380	375	369	354	360	363	364	368	373	375	376	380	382	385	383	381	382	380	375
20	379	380	378	379	381	382	382	380	373	367	365	367	374	379	382	383	385	380	369	374	384	386	385	372	378
21 q	376	375	376	382	384	386	388	386	373	363	359	360	368	373	376	379	385	388	381	379	381	391	390	383	378
22	383	381	381	383	385	385	386	382	373	366	363	364	368	375	376	381	382	380	382	376	377	382	386	388	379
23	385	381	384	385	386	388	386	394	387	373	366	363	364	373	384	382	390	409	395	381	376	363	349	381	380
24 d	351	350	334	358	381	385	372	373	376	363	359	351	368	380	385	380	384	382	380	365	358	373	375	377	369
25	377	376	377	376	378	380	380	377	373	367	368	370	373	377	383	379	381	384	385	394	373	381	380	382	378
26	381	356	367	368	372	372	359	373	370	360	368	365	368	373	376	381	382	385	376	377	381	381	389	379	373
27	373	381	377	373	382	381	382	381	376	364	360	364	372	373	382	381	379	381	382	382	390	384	382	385	378
28	383	381	377	377	385	376	373	379	382	373	364	364	367	370	373	380	385	377	382	377	377	379	382	384	377
29	386	385	385	385	381	382	383	382	376	367	365	368	374	380	382	383	385	390	386	376	382	382	392	377	381
30	376	380	381	381	381	383	379	382	380	370	368	369	373	377	378	381	382	386	386	389	387	387	387	383	380
31	386	378	377	386	380	378	373	376	356	366	367	372	379	385	374	377	385	371	372	373	398	395	377	381	378
Mean	353	360	362	366	379	382	379	378	372	362	360	361	368	374	379	383	*389*	385	383	382	380	375	366	*351*	372

Corrections to be applied to all values: H, -6γ; D, -4·3′; V, +5γ.

MAGNETIC DECLINATION (WEST)

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

41 LERWICK (D) — 11° + — OCTOBER 1944

	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	34·2	31·2	33·4	35·1	35·6	37·3	36·7	36·3	35·3	36·1	38·7	43·2	40·3	42·0	44·3	43·7	40·4	32·9	37·3	40·6	31·2	42·3	32·5	33·4	37·3
2	38·6	37·3	36·2	35·6	35·9	35·9	35·4	35·2	35·1	37·1	38·3	42·2	41·1	41·2	40·7	40·3	39·3	39·3	38·1	35·8	30·2	32·1	31·7	30·0	36·8
3	35·2	39·0	37·9	34·5	37·3	38·9	37·9	35·1	35·0	34·3	38·3	41·9	45·1	45·0	43·8	38·7	32·5	37·1	38·2	35·9	25·3	29·2	34·2	28·1	36·6
4	37·3	36·5	37·2	35·5	35·3	36·0	35·6	35·1	35·1	37·3	40·4	43·3	44·0	43·7	42·0	41·1	39·0	38·7	36·9	30·2	33·6	36·6	36·6	36·5	37·6
5 q	38·0	39·1	38·7	36·4	35·8	35·2	34·5	33·4	33·5	36·2	39·3	42·6	44·0	43·0	41·9	40·5	39·1	39·0	39·0	38·6	37·9	37·0	37·4	38·1	*38·3*
6	37·3	38·0	38·0	37·1	36·1	36·4	37·6	35·3	35·1	37·2	40·1	44·0	45·1	45·3	43·8	43·0	42·3	43·3	37·4	33·8	37·6	29·5	19·3	27·7	37·5
7	34·0	36·2	36·2	36·7	38·1	36·1	35·0	33·9	33·7	36·1	38·3	41·2	42·5	42·5	42·5	41·0	39·1	38·2	38·1	32·2	31·5	36·5	33·5	31·7	36·9
8 q	34·3	35·3	35·4	35·5	35·7	35·6	35·1	33·9	33·5	34·0	36·2	39·1	41·3	41·7	40·9	39·4	38·7	38·6	37·7	37·2	36·6	35·7	32·3	34·1	36·6
9 q	34·7	35·4	33·1	33·7	34·2	33·8	34·5	33·6	33·5	35·3	36·3	38·7	40·8	41·4	41·0	40·0	38·6	38·3	38·3	37·5	37·0	36·4	36·4	36·5	36·6
10	36·2	36·4	36·3	36·0	36·2	36·2	35·8	35·5	35·2	37·0	39·3	41·2	42·5	42·4	41·3	40·4	38·5	38·0	37·7	35·3	32·3	24·1	18·2	25·2	35·7
11 d	26·2	14·5	21·9	33·8	29·3	32·6	34·4	32·3	32·0	33·3	35·9	40·1	44·7	48·7	55·2	61·9	54·2	46·6	41·2	38·0	37·3	31·1	28·3	33·3	36·9
12	35·2	35·2	36·4	36·9	35·0	35·2	35·4	34·6	34·7	35·6	37·5	39·6	41·1	40·0	39·3	38·1	35·2	34·6	36·6	34·0	36·9	28·6	37·0	34·0	36·1
13	37·6	41·2	35·0	35·0	35·2	35·6	35·2	34·3	34·0	35·2	38·2	41·1	43·6	43·6	44·5	36·3	38·5	38·9	36·6	30·0	30·7	26·1	30·8	38·5	36·5
14 d	34·6	37·0	36·6	36·7	35·8	35·6	36·3	37·0	37·7	39·0	42·5	45·8	45·9	47·9	47·7	41·9	35·6	39·6	27·9	30·0	20·1	20·9	19·4	-16·2	34·0
15 d	23·6	8·3	13·7	29·9	37·0	31·9	31·9	31·3	34·0	36·3	40·0	44·2	42·2	42·2	40·3	38·6	33·2	36·3	34·3	31·8	28·5	26·4	38·0	27·4	*32·6*
16	32·4	34·5	35·2	35·5	34·7	34·3	33·3	33·4	34·1	35·8	36·5	39·2	40·8	41·0	38·8	39·1	38·2	36·9	29·7	31·9	34·0	33·1	32·7	35·6	35·4
17	36·8	34·4	34·8	35·3	33·8	34·5	33·6	34·2	34·6	36·7	39·8	41·9	43·4	41·5	40·7	38·7	38·1	38·3	38·1	38·3	39·1	35·0	24·6	25·0	36·3
18	36·6	28·9	34·1	35·0	34·0	33·7	35·3	35·3	34·9	36·5	39·3	40·5	41·0	39·3	38·7	38·0	37·2	34·0	35·0	37·3	35·9	36·7	36·2	35·9	36·2
19 q	37·9	37·5	36·2	35·5	34·7	34·3	34·6	34·0	35·3	37·0	38·1	39·8	39·8	39·3	38·2	37·2	36·9	37·1	36·9	36·9	36·9	36·2	36·3	36·3	36·8
20	36·8	36·2	36·3	35·8	35·0	35·2	35·1	34·6	34·6	35·9	38·1	39·2	39·9	39·6	38·5	37·5	37·9	39·1	39·9	38·5	36·8	33·3	20·5	28·5	35·9
21 q	33·9	35·1	36·9	35·2	34·3	35·0	35·4	34·5	34·4	35·4	37·3	38·8	39·9	40·5	39·4	38·7	38·0	37·9	38·4	37·5	37·6	33·5	32·2	35·5	36·5
22	36·6	36·4	35·6	36·3	36·2	36·4	35·0	34·1	33·7	35·1	37·1	39·7	40·6	40·6	40·2	38·5	37·7	38·2	38·6	35·6	33·2	35·5	35·9	35·3	36·8
23	36·0	36·2	37·8	35·3	35·4	35·5	35·4	35·0	35·7	37·0	38·6	40·6	40·5	41·2	41·1	41·0	44·6	42·8	32·5	32·1	34·2	26·2	34·6	26·7	36·5
24 d	29·1	39·1	38·8	38·0	36·0	34·6	34·2	35·2	35·3	36·4	40·0	40·9	40·4	39·5	40·3	38·8	36·3	33·5	34·1	26·9	33·6	34·6	34·2	35·9	36·1
25	39·4	33·8	35·2	36·1	35·5	35·4	35·2	35·1	35·6	37·6	39·1	40·8	41·1	40·2	39·6	38·3	37·7	38·1	37·5	19·3	32·6	36·0	35·4	35·2	36·2
26	36·5	35·0	31·2	34·8	33·5	34·1	36·5	38·6	37·7	36·9	36·6	38·3	39·8	39·6	38·7	38·1	37·5	37·6	33·1	34·0	32·2	33·6	35·8	38·1	36·2
27	41·0	37·0	35·1	36·7	35·7	35·2	34·6	33·6	33·6	35·5	37·7	39·3	41·2	40·5	38·9	38·1	27·2	35·1	36·7	36·9	36·0	36·0	35·9	36·0	36·4
28	35·6	36·7	36·6	36·8	34·2	33·5	35·4	33·9	33·4	38·8	39·5	41·4	42·0	40·9	39·3	38·3	37·8	38·5	38·1	35·4	33·2	35·8	34·5	36·2	36·9
29	37·6	36·5	36·4	36·1	37·1	37·0	35·7	35·3	35·3	36·1	37·7	40·0	40·7	39·9	39·2	38·5	38·3	38·2	39·1	37·4	38·5	36·5	33·0	33·1	37·2
30	32·4	36·5	35·3	35·0	35·6	35·3	35·4	35·6	36·6	37·1	38·8	40·0	39·8	39·2	38·6	38·3	38·2	38·2	37·7	37·3	37·0	36·7	36·3	37·2	37·0
31	36·0	36·1	38·1	31·9	32·3	36·9	37·5	40·6	37·8	37·6	39·5	42·1	40·2	42·5	41·6	37·5	39·4	32·5	37·1	35·9	31·9	33·5	33·7	35·4	37·0
Mean	35·2	34·5	34·8	35·4	35·2	35·3	35·3	34·8	34·8	36·3	38·5	41·0	41·8	*41·8*	41·3	40·0	38·2	37·9	36·7	34·6	33·9	33·1	32·2	*31·7*	36·4

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

42 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — OCTOBER 1944

	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	841	922	938	942	942	938	938	938	940	945	946	958	964	954	959	958	970	1000	979	961	938	863	867	900	938
2	909	928	939	947	947	947	945	947	946	946	946	946	949	950	948	950	954	954	952	949	944	931	919	909	942
3	911	916	921	931	923	896	913	930	938	943	939	940	945	953	968	983	983	965	957	948	919	913	872	841	931
4	834	897	929	939	947	949	949	950	950	946	942	941	940	939	945	955	959	955	953	950	948	943	939	940	939
5 q	942	939	925	929	941	946	949	950	949	946	943	940	940	943	947	949	951	953	950	949	947	948	944	939	944
6	939	938	938	940	943	946	946	947	947	943	938	934	935	937	939	942	945	955	971	1006	985	991	912	896	946
7	921	933	941	947	948	946	949	950	951	949	947	944	943	944	945	949	953	953	953	959	948	943	941	938	946
8 q	934	936	940	942	943	944	945	948	950	951	949	943	940	940	943	945	943	943	943	947	948	948	947	941	944
9 q	913	913	913	923	929	933	940	945	946	949	945	941	938	938	939	942	943	943	944	945	948	949	946	944	938
10	944	944	943	941	940	941	943	946	946	944	944	944	943	942	940	943	945	944	946	952	946	938	939	882	941
11 d	785	710	701	663	817	893	927	938	940	939	938	936	937	939	946	973	1109	1083	1039	996	979	982	958	949	920
12	947	943	934	936	939	944	948	950	951	951	952	952	951	952	955	959	966	939	960	954	922	923	916	914	944
13	923	919	935	943	943	944	944	944	946	946	944	944	945	954	963	978	967	961	965	967	956	931	916	896	945
14 d	882	923	938	942	944	944	945	939	940	946	950	960	969	965	968	999	1015	993	1013	976	939	888	716	849	939
15 d	710	573	669	802	852	931	953	958	951	961	964	966	966	967	966	969	980	973	985	1001	936	884	751	812	*895*
16	905	932	944	950	950	949	950	953	950	951	949	948	951	959	966	960	961	973	983	977	966	957	945	917	952
17	884	890	927	943	948	947	945	943	944	946	946	949	951	952	955	957	956	952	951	950	956	961	936	925	942
18	907	907	931	948	957	953	948	945	943	941	946	954	960	956	957	957	958	964	958	951	951	948	947	949	947
19 q	941	940	944	946	950	950	951	951	950	953	948	946	949	951	953	956	952	951	951	950	949	950	948	946	949
20	945	945	948	950	950	951	951	952	952	949	945	944	945	947	949	950	954	960	973	969	957	952	928	927	950
21 q	936	942	941	942	948	949	949	949	950	949	946	946	946	948	950	951	952	958	968	973	969	956	946	946	950
22	947	949	950	948	948	948	949	952	952	951	950	947	945	945	951	951	957	961	960	968	965	954	949	943	952
23	940	943	941	941	943	946	947	944	945	947	946	946	946	946	948	970	1014	1058	1065	1031	992	952	811	838	*954*
24 d	893	909	883	894	913	929	942	946	946	948	950	956	958	952	952	954	959	969	985	1000	981	963	953	947	945
25	914	924	939	946	950	951	950	951	951	952	951	952	952	952	954	952	951	952	958	962	954	952	956	946	949
26	896	903	893	926	943	943	946	944	947	953	958	957	953	953	952	952	951	952	962	961	958	956	945	939	943
27	924	931	941	940	940	945	946	947	950	952	952	951	951	955	958	958	970	959	952	951	946	941	947	948	948
28	950	948	943	940	936	940	940	938	939	942	946	949	951	956	966	966	961	963	959	966	965	960	953	950	951
29	944	944	947	947	946	944	944	944	946	948	947	949	947	948	950	949	947	946	949	959	956	958	951	944	948
30	949	952	953	951	949	947	948	946	946	948	949	950	953	957	957	954	952	949	947	946	947	948	948	952	950
31	952	947	925	921	934	934	933	932	939	935	944	950	953	959	965	969	964	976	974	971	948	930	936	938	947
Mean	*908*	911	918	926	936	941	944	946	946	947	947	948	949	950	953	958	966	966	*968*	966	954	942	919	920	943

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3'$; V, $+5\gamma$.

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

43 LERWICK — OCTOBER 1944

	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 11° +	Minimum 11° +	Range	Maximum 46,000γ +		Minimum 46,000γ +		Range			
	h. m.	γ	γ	h. m.	γ	h. m. $'$	$'$ h. m.	$'$	h. m.	γ	γ	h. m.	γ				°A.
1 d	20 57	441	321	0 8	120	21 18 49·2	22·3 22 56	26·9	17 23	1016	751	0 3	265	5,2,2,3,2,3,4,4	25	1	81·9
2	20 45	401	349	12 2	52	11 50 44·1	26·1 22 56	18·0	16 45	958	899	0 9	59	3,0,0,1,1,1,3,2	11	1	81·8
3	20 42	429	316	23 51	113	13 51 46·6	14·1 20 32	32·5	15 53	991	820	24 0	171	3,3,2,2,2,3,4,4	23	1	82·0
4	19 31	407	325	0 19	82	11 54 45·0	22·3 19 29	22·7	16 38	961	804	0 14	157	4,1,0,2,1,2,3,1	14	0	82·7
5 q	16 39	398	336	10 56	62	11 51 44·2	32·1 7 20	12·1	17 24	955	921	2 25	34	2,2,1,1,1,2,0,1	10	0	82·9
6	16 55	418	355	9 44	63	13 34 45·9	15·4 22 5	30·5	19 20	1015	860	23 0	155	1,1,1,2,1,2,3,4	15	1	81·1
7	20 30	410	346	12 11	64	13 1 43·9	23·1 20 27	20·8	19 37	965	909	0 0	56	2,1,0,1,2,2,3,2	13	0	80·7
8 q	17 47	396	353	11 1	43	13 6 42·1	30·5 22 34	11·6	10 0	951	932	0 0	19	1,0,0,1,0,0,0,2	4	0	82·0
9 q	0 16	406	355	10 22	51	13 47 41·9	31·4 2 55	10·5	21 20	950	902	0 33	48	2,1,1,1,0,0,0,1	6	0	82·1
10	20 24	411	270	23 59	141	12 38 43·3	14·7 22 15	28·6	19 55	960	827	24 0	133	0,0,0,1,0,1,2,4	6	1	82·0
11 d	16 24	*678*	−16	3 0	694	15 40 *69·1*	5·5 1 38	63·6	16 46	*1151*	617	3 4	534	6,6,2,2,3,6,4,4	33	2	82·1
12	20 17	402	343	2 38	59	20 27 42·0	26·5 21 30	15·5	16 50	972	898	22 50	74	2,2,1,1,1,2,3,3	15	1	82·8
13	16 14	389	346	23 46	43	23 39 46·1	24·8 21 18	21·3	15 37	989	865	24 0	124	3,1,1,1,2,2,3,4	17	1	82·7
14 d	16 9	417	*−589*	23 23	*1006*	23 45 51·0	*−95·0* 23 17	*146·0*	23 23	1115	549	23 9	566	4,0,1,2,2,4,4,8	25	2	82·0
15 d	19 6	394	−414	0 19	808	0 40 66·7	−69·3 0 20	136·0	19 33	1013	*439*	0 10	*574*	7,7,3,2,2,2,4,5	32	2	82·1
16	15 39	387	341	23 59	46	13 25 41·7	23·6 18 21	18·1	18 20	991	877	0 0	114	3,0,2,1,2,2,3,3	16	0	82·0
17	21 48	406	338	24 0	68	12 31 44·5	20·5 23 11	24·0	21 36	971	868	0 59	103	3,1,3,2,1,1,0,3	14	1	82·0
18	5 9	391	325	0 10	66	11 14 43·5	26·1 1 30	17·4	12 39	966	883	0 34	83	3,2,1,2,1,2,2,0	13	0	81·7
19 q	19 37	389	348	9 50	41	11 31 40·8	33·6 7 40	*7·2*	15 35	956	934	0 51	22	2,0,1,2,1,1,0,0	7	0	81·2
20	22 10	408	359	22 50	49	18 47 43·9	17·1 22 13	26·8	18 57	982	921	23 1	61	0,0,1,1,1,2,2,4	11	0	81·2
21 q	21 46	400	353	11 9	47	13 12 41·0	29·6 22 13	11·4	19 31	975	930	0 0	45	2,1,1,1,1,1,1,2	10	0	80·5
22	15 20	395	358	10 23	37	14 8 41·6	31·3 20 38	10·3	19 43	970	940	24 0	30	1,1,1,1,1,2,2,2	11	0	80·8
23	17 56	467	221	22 24	246	22 22 59·1	6·5 22 2	52·6	17 57	1090	768	22 21	322	2,1,1,1,1,4,4,5	19	1	81·1
24 d	18 10	402	327	2 30	75	1 50 45·5	17·5 0 0	28·0	19 18	1010	873	2 21	137	4,3,3,2,2,2,4,3	23	1	81·3
25	19 53	407	362	20 46	45	0 15 44·2	9·9 19 19	34·3	19 30	969	904	0 30	65	3,1,1,1,1,1,4,2	14	1	81·0
26	22 48	394	331	1 12	63	0 9 45·9	25·1 18 57	20·8	18 55	968	874	0 32	94	3,2,3,2,1,1,3,2	17	1	81·0
27	20 44	400	356	10 30	44	0 28 44·0	19·7 16 30	24·3	16 20	976	916	0 43	60	2,1,1,1,2,3,2,1	13	0	80·9
28	20 0	393	363	10 48	30	12 6 43·3	24·6 19 55	18·7	19 54	972	934	4 9	38	1,1,2,1,2,1,3,2	13	0	80·9
29	22 42	410	363	10 28	47	12 41 41·5	29·0 24 0	12·5	19 20	962	938	22 53	24	2,1,1,1,1,1,2,2	11	0	80·5
30	19 43	391	365	10 50	*26*	11 59 40·4	28·8 0 1	11·6	14 4	958	943	0 0	*15*	2,1,1,1,1,1,0,0	7	0	80·5
31	20 32	432	348	8 55	84	11 58 44·5	23·2 20 30	21·3	17 24	982	913	2 54	69	3,2,2,2,2,3,3,2	19	1	80·5
Mean		415	273		142	46·0	15·8	30·2		992	855		137	1·9	15·1	0·61	81·5

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.

44 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — NOVEMBER 1944

	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	378	379	380	380	382	382	383	382	378	369	366	365	368	373	377	382	385	386	385	386	386	385	389	385	380
2	382	382	381	380	383	381	382	381	379	371	368	368	377	384	385	384	385	388	391	392	390	387	391	389	383
3	386	388	388	390	390	389	391	390	385	375	375	371	366	374	385	382	377	379	386	388	385	387	387	388	383
4 d	385	384	380	383	382	393	394	377	369	365	360	363	348	373	377	375	394	385	377	381	382	382	394	385	379
5 d	381	385	376	360	394	398	389	365	352	351	354	363	363	375	376	378	387	364	373	376	368	354	312	354	*369*
6 d	359	359	357	363	376	364	372	368	351	360	360	368	363	373	377	381	381	385	385	385	380	377	380	376	371
7	376	377	380	381	382	383	384	380	380	377	374	375	378	376	373	365	369	377	379	377	370	373	375	379	377
8	382	384	388	379	382	385	386	381	371	369	364	364	372	378	378	378	381	385	389	389	389	387	390	390	381
9	391	386	377	385	388	390	390	387	373	385	382	382	377	378	381	381	380	385	386	385	392	386	381	383	384
10 d	385	384	385	385	386	390	394	399	398	394	385	386	381	369	374	382	382	385	376	378	381	380	378	379	384
11	379	378	379	379	382	384	384	380	376	376	375	377	376	378	385	388	389	377	378	382	385	386	385	383	381
12	383	385	385	386	388	389	390	388	385	383	378	377	380	384	386	389	389	389	390	390	389	388	385	385	386
13 q	385	384	385	385	388	390	390	390	387	382	382	385	390	393	391	390	392	392	391	390	387	389	389	389	*388*
14	389	390	390	392	392	394	397	397	392	384	381	383	388	388	385	382	379	372	373	381	385	385	389	384	386
15 q	381	382	383	382	387	390	394	394	390	382	381	384	386	389	388	388	386	386	386	384	382	386	385	382	386
16	385	386	385	389	398	399	398	394	386	378	377	375	380	382	385	387	390	394	392	391	389	386	385	385	387
17	385	385	386	389	390	391	390	390	387	381	378	377	381	386	391	391	394	394	391	388	387	389	385	389	387
18	382	382	387	390	394	394	396	393	386	382	382	378	381	382	377	370	380	389	390	393	393	389	390	390	386
19	387	384	369	386	395	403	397	392	391	383	376	381	384	382	381	375	388	389	385	382	385	385	386	385	385
20 d	384	386	389	384	392	417	404	394	381	381	372	373	368	354	371	408	419	422	374	370	367	363	381	369	384
21	363	369	371	375	378	379	380	378	373	372	372	372	373	376	379	380	380	382	382	381	378	378	374	378	376
22	378	376	379	379	380	383	382	381	381	376	373	373	377	381	382	381	372	379	379	380	383	384	386	382	379
23	379	375	380	384	387	391	393	387	383	375	373	372	372	376	375	378	381	381	378	381	383	383	385	383	381
24 q	379	377	377	381	385	386	386	388	385	378	376	374	377	379	382	385	386	387	387	385	386	385	385	384	383
25 q	383	383	385	388	390	390	392	392	389	385	382	381	383	385	385	389	389	389	389	390	389	390	386	386	387
26	382	382	379	386	386	389	385	382	380	374	373	376	380	382	377	376	381	386	389	389	386	385	385	386	382
27 q	386	385	385	389	388	389	385	382	378	373	373	374	377	383	385	386	389	389	389	390	390	388	387	385	
28	387	385	385	382	381	381	379	377	376	373	373	373	378	382	385	387	390	394	393	392	394	390	387	387	384
29	385	386	385	386	387	395	397	394	390	383	382	378	379	381	383	383	383	385	387	388	389	388	386	384	386
30	398	385	385	384	387	390	394	393	392	388	385	382	380	379	381	373	377	387	384	377	376	381	382	380	384
Mean	382	382	381	383	387	*389*	389	386	381	377	*374*	375	376	379	381	382	385	386	384	385	384	383	383	383	382

Corrections to be applied to all values: H, −6γ; D, −4·3′; V, +3γ.

MAGNETIC DECLINATION (WEST)

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

45 LERWICK (D) — 11° + — NOVEMBER 1944

	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	36·1	35·7	36·3	36·7	36·6	36·4	36·2	36·0	35·4	35·8	37·3	39·3	41·4	40·4	38·8	38·3	38·3	38·3	36·9	37·2	37·2	36·4	34·3	35·4	37·1
2	35·4	36·2	35·7	38·0	35·4	34·8	34·8	35·3	35·7	36·3	38·0	39·4	40·6	40·5	39·3	38·2	37·7	37·6	37·6	37·2	36·9	36·2	35·3	36·4	37·0
3	36·3	37·1	37·1	37·2	36·7	36·8	37·2	35·7	36·5	36·5	39·4	41·1	42·5	42·0	42·4	45·0	40·6	41·1	37·3	36·9	36·3	35·8	35·7	35·4	*38·3*
4 d	35·5	35·8	37·3	37·5	37·2	36·2	35·8	36·0	37·9	37·8	38·5	41·7	43·3	45·2	45·3	44·0	34·5	37·9	38·7	35·9	35·2	34·3	32·3	31·5	37·7
5 d	33·9	34·8	32·6	37·0	31·2	37·7	40·6	38·9	40·1	38·1	37·6	39·0	42·1	38·9	41·0	35·3	36·4	32·6	34·2	29·6	29·3	24·4	17·0	22·0	*34·3*
6 d	27·3	29·8	31·8	31·0	36·4	41·6	40·3	39·9	39·7	42·7	42·2	43·4	42·4	43·7	38·0	40·5	39·2	37·4	36·6	36·3	36·4	33·5	33·6	34·8	37·4
7	34·9	34·8	35·1	35·3	35·6	35·4	35·3	35·5	35·4	35·9	36·4	37·8	38·6	38·1	37·3	36·4	37·4	37·2	36·4	34·8	32·7	29·2	28·5	34·1	35·3
8	34·8	35·9	35·2	34·1	35·6	35·3	34·9	37·2	40·2	39·9	41·3	42·9	40·6	40·0	38·9	37·5	36·5	36·3	36·3	36·1	35·6	35·7	34·7	34·2	37·1
9	34·4	33·1	37·1	35·9	34·8	35·1	35·0	35·3	37·9	38·7	38·3	38·6	38·4	38·2	38·4	37·4	37·2	36·7	36·3	36·8	26·7	33·2	35·0	35·5	36·0
10 d	35·6	35·8	36·3	36·3	36·2	36·4	36·1	36·5	36·4	36·3	37·0	39·4	42·4	42·5	44·2	42·5	37·2	35·2	40·2	37·2	35·6	34·9	34·7	34·2	37·5
11	34·5	35·5	35·5	35·8	35·9	35·6	35·6	35·1	34·8	35·8	37·0	38·6	39·4	38·1	38·2	37·8	37·7	33·8	37·3	35·9	36·0	35·7	35·1	35·1	36·2
12	35·1	36·4	35·3	35·6	36·1	35·4	35·1	34·7	34·4	35·2	36·7	38·3	39·4	39·0	38·2	37·6	37·0	36·4	35·8	35·6	35·5	35·4	35·3	35·3	36·2
13 q	35·3	35·6	35·9	36·1	36·0	36·0	35·8	35·6	35·3	35·4	36·5	38·2	39·0	38·6	37·9	37·4	37·1	36·6	36·1	35·7	35·4	34·8	35·0	35·4	36·3
14	36·3	36·9	37·3	36·6	36·5	36·4	35·5	35·7	35·8	37·0	38·1	39·0	39·2	38·7	39·2	39·9	40·4	40·1	37·3	35·7	35·6	35·1	33·8	29·7	36·9
15 q	31·6	34·4	35·9	36·3	36·4	36·0	35·5	35·4	35·3	35·7	37·3	38·1	39·0	38·6	38·1	38·0	38·4	38·1	37·6	36·5	35·4	35·4	32·1	32·5	36·1
16	33·7	34·2	35·9	37·6	35·3	35·0	35·9	36·7	36·7	38·1	37·5	38·9	39·6	39·1	39·7	37·8	37·5	37·2	37·1	36·4	35·9	35·8	34·9	35·1	36·7
17	35·8	35·1	36·1	36·3	36·1	36·2	35·7	35·4	35·5	35·3	36·2	36·9	38·2	38·6	38·1	37·7	37·1	37·2	37·1	36·7	36·1	35·3	35·0	31·7	36·2
18	30·2	33·7	35·6	35·9	36·7	35·7	35·4	35·3	35·5	36·6	37·4	38·7	39·6	40·0	40·6	42·2	38·5	37·4	37·0	36·1	35·6	34·8	34·1	34·0	36·5
19	34·1	34·4	40·2	36·1	35·9	34·1	34·6	34·9	35·7	36·1	37·0	37·3	38·6	39·0	39·0	38·1	38·4	38·5	37·1	36·0	32·7	33·7	32·6	34·1	36·2
20 d	35·4	35·0	33·8	36·4	39·8	32·7	36·7	39·7	41·0	41·6	40·4	42·2	42·5	49·0	50·4	36·0	36·6	39·8	32·3	33·4	34·4	31·7	20·8	25·8	37·0
21	32·6	34·6	35·7	35·6	36·0	36·0	35·8	35·7	35·4	35·2	36·0	36·0	36·8	37·0	36·5	36·0	36·0	36·1	35·8	35·8	34·2	33·7	33·3	34·1	35·4
22	34·8	35·0	35·4	35·2	35·3	35·5	35·3	35·3	35·5	35·5	35·8	36·6	37·2	37·5	37·2	36·8	35·7	36·3	36·5	35·3	34·8	35·2	33·8	33·0	35·6
23	33·8	36·5	36·3	35·7	35·3	34·6	34·6	35·6	36·3	36·5	35·9	37·1	37·3	37·8	38·1	38·3	38·5	37·4	35·1	35·1	35·0	34·4	33·6	33·7	35·9
24 q	34·1	34·7	35·1	35·5	35·2	34·3	34·4	34·8	35·0	35·1	35·9	36·6	37·3	37·5	37·1	36·7	36·5	36·4	36·1	35·8	35·6	35·2	34·8	35·3	35·6
25 q	35·6	36·3	36·5	36·7	36·4	36·1	35·6	35·4	35·3	35·6	36·3	36·7	37·4	38·1	37·4	36·8	36·2	36·1	35·6	35·4	35·5	35·7	35·8	35·7	36·2
26	34·8	33·6	28·8	33·4	34·4	34·0	34·5	34·4	35·3	35·3	36·7	37·6	38·6	39·2	38·0	38·7	36·8	36·0	35·9	35·3	35·1	34·6	34·5	34·1	35·4
27 q	35·3	36·2	36·4	35·5	34·3	34·2	35·1	34·4	34·7	35·3	36·3	37·5	38·2	38·6	37·6	36·3	36·1	35·7	35·3	35·2	35·2	35·2	35·4	35·5	35·8
28	35·7	36·0	35·8	35·4	35·3	35·2	35·1	35·3	35·2	35·3	36·2	37·5	37·9	38·1	37·3	36·9	36·2	36·0	36·1	35·6	36·0	36·0	34·6	34·9	36·0
29	35·4	35·7	36·2	36·6	37·3	36·0	35·9	36·0	35·8	36·0	36·4	37·4	38·4	38·2	38·5	38·0	37·7	37·3	36·0	35·5	35·4	35·2	35·3	34·7	36·5
30	34·6	34·2	35·9	35·5	35·7	35·1	35·3	36·2	37·0	37·9	38·4	39·7	41·3	43·6	44·5	42·0	37·1	36·3	35·7	35·1	34·3	32·0	33·6	35·5	36·9
Mean	34·4	35·1	35·6	35·9	35·9	35·7	35·8	35·9	36·4	36·7	37·5	38·7	39·6	*39·8*	39·5	38·5	37·3	37·0	36·4	35·7	34·9	34·3	*33·1*	33·6	36·4

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

46 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — NOVEMBER 1944

	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	948	951	951	954	953	950	949	946	945	947	949	949	949	954	956	959	955	955	954	950	948	948	946	934	950
2	942	948	951	949	944	948	948	946	945	946	945	943	941	944	951	954	955	954	952	949	948	949	946	945	946
3	946	947	949	949	950	950	948	946	944	945	944	947	956	959	960	968	977	982	972	961	957	953	949	947	954
4 d	949	946	947	941	947	945	942	949	950	951	953	957	968	976	977	994	1020	983	987	982	976	971	955	941	963
5 d	945	945	937	902	889	919	924	937	945	949	955	960	968	974	974	988	980	1006	1046	1040	1003	859	837	849	947
6 d	863	869	880	871	870	878	897	924	948	958	959	960	963	968	989	968	961	957	956	956	962	968	965	962	*935*
7	957	954	953	952	951	951	951	950	950	950	951	950	952	955	960	967	964	961	962	968	969	955	943	942	955
8	943	935	912	922	925	928	935	938	943	944	949	948	946	948	949	948	948	946	948	950	950	952	952	950	942
9	942	939	941	931	938	941	943	942	947	938	941	943	946	950	952	953	956	954	953	955	955	947	947	949	946
10 d	949	949	948	947	946	944	942	939	939	940	942	941	951	957	952	954	996	1016	989	966	959	956	957	955	956
11	952	953	950	948	948	947	947	949	952	952	952	954	956	955	953	952	949	959	956	955	953	952	952	952	952
12	951	946	945	944	946	944	944	944	944	946	946	947	949	950	950	949	948	947	946	945	945	946	948	949	947
13 q	949	950	949	947	945	943	942	942	944	945	945	944	944	946	947	949	948	946	946	944	946	945	945	946	946
14	946	945	945	944	944	942	940	940	940	941	942	944	945	949	952	955	959	967	969	962	954	951	947	940	948
15 q	938	940	945	948	948	946	944	943	942	942	941	941	943	946	948	950	950	950	949	949	950	946	942	944	945
16	943	944	945	941	939	940	939	939	941	943	943	945	946	950	952	953	953	950	949	947	948	948	948	947	946
17	947	948	948	947	947	946	945	944	944	944	945	945	944	944	947	948	948	948	948	949	949	946	946	941	946
18	925	916	934	940	940	942	942	941	944	944	944	945	946	948	958	967	961	956	953	950	949	950	948	947	945
19	944	942	942	927	937	938	940	939	939	940	941	938	936	941	948	957	953	953	957	961	956	948	942	941	944
20 d	942	941	938	936	913	905	918	921	925	928	939	940	950	977	1005	1079	1109	1136	1072	1020	984	975	925	921	*971*
21	944	947	949	952	952	952	950	950	951	950	949	948	946	947	949	952	952	952	953	954	956	955	955	951	951
22	949	949	948	948	948	948	949	949	950	950	950	948	944	944	946	950	958	956	956	958	956	953	949	946	950
23	942	941	931	935	939	940	941	944	945	946	948	948	949	948	952	955	955	957	963	960	956	955	952	950	948
24 q	949	947	946	943	941	941	942	942	943	946	948	949	949	949	948	948	946	946	947	948	949	950	951	951	947
25 q	949	946	944	943	941	941	941	942	944	944	945	946	945	945	944	943	943	942	942	943	944	944	945	946	944
26	944	912	908	916	928	934	938	939	942	948	948	948	949	950	953	952	948	945	944	944	945	946	947	947	941
27 q	946	945	940	935	935	935	937	938	939	942	946	948	949	949	948	947	945	945	944	944	943	944	946	946	943
28	948	948	948	948	947	944	944	942	942	944	944	945	946	948	949	950	948	945	943	943	943	944	949	950	946
29	950	948	948	946	944	939	937	936	936	938	941	944	943	946	950	952	953	950	947	945	943	943	945	946	945
30	928	935	936	940	942	941	940	937	934	935	939	941	944	947	950	958	964	955	955	957	957	951	948	947	945
Mean	942	941	940	938	*938*	939	940	941	943	945	946	947	949	952	956	961	963	*964*	962	959	955	948	944	943	948

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3'$; V, $+3\gamma$.

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

47 LERWICK — NOVEMBER 1944

	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 11° +		Minimum 11° +		Range	Maximum 46,000γ +		Minimum 46,000γ +		Range				
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ				°A.
1	22 57	398	363	11 7	35	12 21	42·2	31·8	22 36	10·4	15 20	960	929	23 17	31	1,0,0,0,1,0,0,2	4	0	80·1
2	22 32	402	364	10 45	38	13 0	41·1	33·6	22 28	7·5	16 50	955	939	22 36	16	1,2,0,1,1,0,0,1	6	0	79·8
3	14 44	397	361	12 27	36	15 28	46·7	35·2	7 21	11·5	17 48	989	942	10 39	47	0,0,1,1,2,2,2,0	8	1	79·4
4 d	16 18	417	334	12 9	83	14 58	47·4	24·5	16 22	22·9	16 23	1078	937	3 26	141	1,1,2,1,3,4,2,2	16	1	79·2
5 d	16 0	405	*253*	22 4	*152*	3 37	44·5	0·7	22 23	43·8	18 53	1052	*788*	21 58	264	2,3,3,2,3,3,4,5	25	2	79·0
6 d	19 32	390	342	8 33	48	13 55	45·7	22·3	0 0	23·4	14 15	1001	857	0 0	144	3,3,3,2,3,1,1,1	17	1	78·7
7	6 37	386	360	21 10	26	12 37	39·9	25·6	22 0	14·3	19 38	972	940	22 30	32	0,0,0,0,2,1,2,2	7	0	78·0
8	22 56	395	362	11 26	33	11 20	43·5	32·1	2 58	11·4	21 51	953	907	2 46	46	2,2,2,1,1,0,0,1	9	0	77·5
9	20 25	399	369	8 28	30	10 15	40·1	21·0	20 22	19·1	19 47	959	927	3 14	32	2,1,2,1,1,0,3,2	12	0	76·9
10 d	7 20	403	360	13 36	43	18 10	48·3	19·7	16 57	28·6	17 6	1048	936	8 12	112	0,0,1,1,1,4,3,0	10	1	76·2
11	16 44	391	369	17 21	22	12 19	40·3	30·4	17 40	9·9	17 32	964	945	5 55	19	0,0,0,1,1,2,1,0	5	0	76·3
12	6 35	394	377	11 0	17	12 21	39·5	33·6	6 22	5·9	0 7	953	939	1 52	14	2,0,1,0,0,0,0,0	3	0	76·3
13 q	13 37	394	381	10 21	*13*	12 22	39·2	33·2	21 32	6·0	15 25	950	941	7 20	*9*	0,0,0,0,1,0,0,1	2	0	76·1
14	22 46	402	369	17 50	33	16 15	41·4	29·0	23 3	12·4	18 21	971	934	22 55	37	0,0,0,0,1,1,1,2	5	0	76·3
15 q	22 2	398	374	0 34	24	13 2	39·2	29·8	0 0	9·4	16 29	950	934	0 17	16	2,1,0,0,1,0,0,1	5	0	77·0
16	5 24	400	373	11 45	27	14 17	40·2	31·7	0 2	8·5	15 36	955	936	3 54	19	1,1,1,0,0,0,0,0	3	0	77·0
17	23 50	398	374	10 58	24	13 12	39·0	28·2	23 58	10·8	19 28	951	928	23 58	23	0,0,0,0,0,0,0,2	2	0	77·0
18	4 45	398	364	0 42	34	15 3	46·1	26·7	0 20	19·4	15 35	969	904	1 16	65	3,0,0,0,2,2,0,0	7	0	76·9
19	4 58	406	364	2 40	42	2 47	45·5	29·3	20 9	16·2	19 42	962	922	3 5	40	3,2,1,1,2,2,2,1	14	1	77·1
20 d	16 57	*472*	343	13 50	129	16 40	*55·1*	9·8	22 47	*45·3*	17 17	*1170*	897	22 56	*273*	1,3,3,2,3,5,4,4	25	1	77·4
21	21 28	384	357	0 0	27	13 22	37·3	30·8	0 0	6·5	21 54	958	940	0 0	18	2,0,0,2,0,0,1,1	6	0	77·1
22	22 30	391	363	16 42	28	13 10	38·2	32·3	22 55	5·9	16 43	963	942	13 5	21	0,0,0,0,1,2,1,1	5	0	76·5
23	5 57	395	368	12 15	27	1 52	39·6	32·7	22 19	6·9	18 18	966	926	2 25	40	2,1,1,1,0,1,1,0	7	0	76·5
24 q	22 16	390	373	11 48	17	13 3	37·9	33·5	0 51	4·4	22 38	952	939	4 15	13	0,0,0,0,0,0,0,0	0	0	77·2
25 q	20 38	393	380	11 10	*13*	13 59	38·5	34·8	24 0	*3·7*	0 0	950	940	6 20	10	0,0,0,0,0,0,0,0	0	0	77·1
26	19 40	390	369	0 57	21	1 12	42·6	23·7	1 52	18·9	14 49	956	897	1 48	59	4,2,1,1,1,1,0,0	10	0	76·7
27 q	20 40	392	373	10 14	19	13 30	39·2	33·5	5 20	5·7	12 39	950	933	3 37	17	0,1,1,1,0,0,0,0	3	0	75·9
28	20 11	402	371	10 7	31	11 22	38·2	33·6	22 48	4·6	22 32	952	940	20 11	12	0,0,0,1,1,0,1,1	4	0	75·6
29	6 56	399	375	11 53	24	15 11	39·3	34·3	23 22	5·0	16 21	954	934	7 12	20	0,1,0,0,1,0,0,0	2	0	77·8
30	0 17	411	366	16 7	45	14 49	45·5	28·6	21 33	16·9	16 19	968	920	0 22	48	2,0,0,0,2,2,1,2	9	0	77·0
Mean	– –	400	362	– –	38	– –	42·0	28·2	– –	13·8	– –	978	923	– –	55	0·9	7·7	0·27	77·3

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.

48 LERWICK (H) — 14,000γ (0·14 C.G.S. unit) + — DECEMBER 1944

	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	382	386	381	383	389	393	393	388	391	388	386	382	378	376	383	375	369	372	377	373	364	376	377	380	381
2	382	384	377	380	389	391	391	390	375	364	357	368	379	384	381	380	351	360	367	381	364	369	367	373	375
3	370	370	364	369	385	390	372	380	388	381	376	378	381	375	377	379	382	377	381	383	385	380	390	386	379
4	378	375	382	380	373	382	390	387	383	383	382	381	383	384	381	381	381	382	383	373	377	377	380	373	381
5	381	381	377	382	390	390	391	390	382	369	373	377	379	378	375	373	381	386	385	380	376	379	378	373	380
6	370	371	367	377	383	384	387	383	385	376	379	382	380	380	379	372	372	376	380	382	377	377	380	382	378
7 q	383	383	381	383	385	386	389	388	384	385	383	381	380	378	381	384	385	386	386	385	383	383	384	386	384
8	386	385	386	387	390	391	394	390	393	393	390	386	383	380	379	381	383	384	386	389	390	390	386	382	387
9	379	377	371	369	387	394	389	388	388	386	383	380	378	380	385	390	385	386	385	383	389	386	386	382	384
10 q	386	382	372	377	380	380	382	383	383	385	383	383	383	385	386	387	390	389	386	389	387	384	384	383	384
11 q	381	381	380	385	386	389	390	389	383	379	378	379	376	380	384	386	385	389	391	390	390	389	386	385	385
12	382	383	382	384	392	394	396	394	394	394	390	386	390	390	393	395	395	396	394	385	386	388	385	385	390
13 d	384	381	385	390	398	393	395	397	394	390	385	381	390	390	381	382	386	390	370	367	371	364	364	363	383
14	355	360	364	342	360	368	361	356	351	360	368	363	356	366	356	362	368	373	374	377	377	376	376	377	364
15	378	377	376	377	378	380	381	378	375	372	374	374	376	376	377	376	377	382	386	389	385	382	395	390	380
16 d	383	379	383	386	395	406	403	398	396	402	411	377	383	431	406	427	790	600	392	412	345	316	311	321	*411*
17 d	326	328	330	332	328	303	317	275	256	271	319	326	354	366	425	391	507	437	352	354	312	318	274	313	*338*
18 d	329	329	328	325	330	325	342	341	344	352	348	337	351	350	355	356	359	354	353	367	378	363	363	361	347
19	357	358	354	354	360	363	354	355	358	354	363	364	362	362	359	363	363	365	366	368	373	375	361	362	361
20	357	361	360	363	361	360	356	364	364	364	364	362	366	370	375	370	364	370	373	361	363	366	372	372	365
21	359	353	357	351	358	373	374	375	372	371	367	368	371	373	377	377	375	366	373	373	373	372	368	369	369
22	373	369	363	366	370	370	372	373	369	370	372	375	375	371	367	377	369	370	371	368	363	362	365	373	370
23	361	364	361	364	367	368	373	377	380	376	373	372	373	376	372	373	373	373	373	373	377	380	375	373	372
24 q	368	369	369	371	372	373	373	373	373	373	376	377	377	376	370	373	373	376	373	375	376	373	372	368	373
25 q	366	364	364	366	368	369	370	368	369	373	380	384	384	381	378	378	376	377	377	381	380	376	373	369	374
26	368	367	369	371	372	373	373	372	372	373	382	390	393	398	390	388	393	394	380	377	369	375	375	381	379
27 d	376	362	373	388	393	393	390	377	373	364	360	351	361	390	432	615	598	418	468	351	267	244	174	221	377
28	286	331	364	364	364	366	376	377	373	368	367	373	376	378	375	372	362	358	360	360	365	367	364	364	363
29	365	366	369	369	377	384	385	374	372	362	368	364	366	364	364	364	364	356	356	353	351	361	364	357	366
30	351	359	352	351	377	381	382	382	364	362	363	363	358	364	367	375	377	373	372	370	365	350	364	359	366
31	369	365	371	373	378	382	382	377	374	373	373	372	374	374	368	363	363	364	362	364	366	363	356	354	369
Mean	367	368	368	370	375	377	378	375	373	371	373	372	375	378	380	386	*400*	386	378	375	369	366	*363*	365	375

364 at 0-1h. January 1, 1945

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3'$; V, $+2\gamma$.

MAGNETIC DECLINATION (WEST)

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

49 LERWICK (D) — 11° + — DECEMBER 1944

	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	35·3	35·8	37·4	35·9	35·6	36·1	35·8	35·9	36·0	36·2	37·4	39·7	41·0	41·1	42·5	40·4	41·1	37·9	37·1	35·8	33·4	32·8	33·7	34·1	37·0
2	36·3	35·5	34·2	35·3	35·6	36·0	37·9	38·3	40·3	39·6	42·5	45·0	41·9	39·5	38·5	38·2	36·6	35·7	36·0	15·1	17·6	32·5	32·2	34·6	35·6
3	35·6	38·1	33·5	38·4	36·1	36·1	37·8	37·0	35·6	37·7	37·3	38·0	38·0	36·5	35·7	36·5	37·3	37·0	35·5	34·8	33·0	34·6	31·7	32·3	36·0
4	34·2	38·1	36·4	34·8	37·6	36·6	35·2	36·6	36·0	36·4	37·4	38·5	38·5	38·3	37·3	36·7	36·6	36·6	36·4	33·4	32·5	34·0	32·8	34·0	36·0
5	34·1	35·2	36·4	37·0	34·8	35·1	35·9	36·0	36·5	36·1	38·4	39·2	40·3	41·5	43·3	39·2	37·8	36·7	36·7	36·4	35·3	35·2	28·6	27·6	36·4
6	30·2	26·5	27·6	33·0	33·1	34·9	36·5	36·0	36·3	37·3	39·5	39·1	39·6	38·7	38·4	38·4	39·0	38·3	37·0	36·3	32·7	33·6	33·8	34·3	35·4
7 q	36·5	35·4	34·9	35·3	35·7	35·9	35·7	35·7	35·6	35·5	36·0	36·4	36·5	36·4	36·2	36·0	36·1	36·0	36·0	35·9	35·5	35·1	34·7	35·6	35·8
8	35·1	35·4	35·6	35·7	35·8	36·2	36·4	37·2	36·6	35·3	36·9	38·0	38·2	39·6	40·0	40·6	40·0	40·7	38·6	36·4	35·4	34·5	34·6	30·6	36·8
9	29·3	32·1	31·9	37·0	34·1	34·2	35·7	35·3	35·2	36·4	37·0	37·6	38·3	38·1	38·7	38·2	39·1	38·2	39·2	37·4	35·7	35·6	35·7	34·5	36·0
10 q	32·0	30·7	33·4	33·5	34·7	35·1	35·1	35·3	35·3	36·3	37·4	38·3	38·9	38·4	37·6	37·4	37·4	38·2	37·9	37·1	35·5	34·5	35·1	34·4	35·8
11 q	34·5	35·4	37·9	36·7	37·0	35·8	35·4	35·3	35·5	35·6	36·4	38·8	39·4	38·7	37·9	37·9	37·3	37·0	36·6	35·9	35·3	35·3	34·9	35·1	36·5
12	34·7	34·6	33·8	34·1	32·9	33·8	34·4	35·3	35·3	35·4	36·0	37·0	38·3	39·0	38·7	37·6	37·0	36·8	37·4	36·0	35·1	35·1	35·7	34·5	35·8
13 d	35·3	35·5	36·9	35·0	35·7	36·6	38·2	36·9	36·4	36·5	37·1	39·2	41·8	46·4	43·9	44·3	40·1	42·2	35·4	36·0	32·6	30·5	30·7	28·6	*37·2*
14	30·4	33·5	37·8	36·6	35·0	44·8	46·4	44·3	38·5	35·5	35·3	38·3	39·0	37·7	37·3	37·0	36·4	36·1	33·7	34·4	34·6	34·8	34·6	34·5	36·9
15	35·0	35·2	35·2	35·1	35·1	35·3	37·1	36·7	35·2	35·1	35·6	36·5	37·1	37·2	36·7	36·4	36·2	36·3	35·5	35·4	35·1	34·4	25·6	27·3	35·0
16 d	32·0	35·6	37·0	36·6	35·5	36·2	36·6	33·7	35·1	36·3	33·5	17·1	15·3	20·5	16·6	44·0	60·6	42·8	37·4	33·0	34·8	33·1	31·6	33·2	33·7
17 d	33·6	34·8	33·6	33·1	35·8	49·5	36·9	41·5	46·2	40·9	38·1	39·9	39·4	37·4	36·7	28·9	42·3	20·6	29·4	27·2	22·8	24·1	26·4	36·5	34·8
18 d	29·6	36·3	35·4	36·5	35·1	35·2	40·5	39·1	34·2	33·4	34·0	35·1	35·3	36·2	35·3	34·3	31·1	31·6	35·3	34·0	35·3	34·5	32·2	32·1	34·7
19	33·4	33·2	33·1	34·8	34·5	33·7	33·6	33·3	33·9	34·7	34·4	35·5	36·7	36·4	35·9	35·8	32·2	34·8	36·5	35·3	29·4	31·7	30·3	31·5	33·9
20	34·3	35·2	34·5	34·4	35·2	34·8	34·1	33·1	34·1	34·6	36·5	35·5	37·0	37·3	36·9	37·0	35·8	35·6	37·5	33·8	34·0	33·6	31·5	35·6	35·1
21	37·5	26·2	26·9	30·2	34·0	31·8	33·3	33·2	33·6	33·9	35·0	36·2	38·1	39·3	39·2	37·0	37·5	37·5	37·8	35·6	34·3	34·5	33·5	35·7	34·7
22	36·3	34·2	34·4	33·9	34·4	34·6	34·4	34·7	35·2	35·9	36·3	37·3	39·3	38·1	37·1	37·0	38·2	35·3	36·4	33·7	27·0	35·6	33·1	32·1	35·2
23	32·7	35·8	34·8	34·6	33·7	34·2	34·7	34·7	36·9	36·4	37·6	38·7	38·5	37·5	37·0	36·3	36·1	36·3	35·9	34·3	34·8	32·9	33·5	35·3	35·5
24 q	35·1	34·3	34·6	34·2	34·6	34·7	34·4	34·4	35·1	36·3	38·0	37·4	37·1	37·5	37·0	37·7	36·4	36·6	35·9	35·8	35·2	34·4	34·6	34·3	35·7
25 q	34·4	34·4	33·3	33·6	33·3	33·8	34·6	34·5	35·3	36·2	37·1	36·6	37·2	36·3	36·1	36·0	36·3	36·4	36·6	35·4	35·0	35·5	34·4	34·2	35·3
26	32·4	33·2	33·0	32·9	33·7	34·5	34·2	34·6	35·3	36·3	37·6	41·0	39·0	40·6	41·0	41·4	38·0	37·7	36·6	36·4	35·2	34·1	35·2	36·3	36·3
27 d	34·2	34·1	33·2	27·8	33·3	36·3	36·7	38·8	40·5	40·9	37·7	40·6	44·9	45·8	45·1	50·4	37·3	35·4	39·5	29·1	22·3	18·3	9·6	13·4	34·4
28	24·8	33·3	32·2	34·0	35·1	35·8	35·8	35·3	36·3	38·4	39·0	39·6	42·5	39·5	38·4	36·5	36·7	35·4	34·8	34·4	32·3	30·6	31·3	32·9	35·2
29	34·5	35·4	36·4	38·5	35·1	34·8	35·5	35·7	35·3	33·8	34·5	34·9	37·3	37·9	36·4	36·6	36·6	34·2	34·2	23·5	18·1	27·5	28·6	31·1	*33·6*
30	26·0	23·6	30·2	39·0	35·3	35·1	34·0	34·8	37·1	39·3	39·6	38·2	38·9	37·8	35·3	32·1	36·9	37·4	36·1	34·8	32·1	27·6	18·2	30·3	33·7
31	32·8	34·8	34·8	35·5	35·5	35·8	35·8	35·0	34·5	34·8	35·3	36·0	36·3	36·3	36·1	35·8	35·6	37·0	36·0	35·9	33·4	32·2	23·7	33·6	34·7
Mean	33·3	33·9	34·2	34·9	34·9	35·9	36·1	36·1	36·2	36·4	36·9	37·4	38·1	*38·1*	37·5	37·8	37·9	36·4	36·3	33·8	32·1	32·7	*31·0*	32·6	35·4

29·0 at 0-1h. January 1, 1945

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

50 LERWICK (V) — 46,000γ (0·46 C.G.S. unit) + — DECEMBER 1944

	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	945	942	946	949	948	945	943	943	940	941	942	943	947	950	958	994	982	977	969	964	968	956	953	948	954
2	940	902	917	938	943	944	943	940	943	946	951	950	951	953	958	965	998	1017	996	997	963	950	945	937	954
3	936	925	921	937	944	944	946	948	947	945	946	944	946	956	961	958	957	962	963	958	952	952	944	934	947
4	938	936	933	940	944	938	942	943	945	943	944	943	945	946	951	952	952	953	953	961	957	953	949	948	946
5	943	942	944	935	935	939	941	944	946	951	949	949	949	951	956	959	951	954	955	958	959	957	953	936	948
6	920	906	918	931	934	936	937	942	942	945	943	944	946	948	952	958	961	959	958	958	962	957	949	944	944
7 q	938	934	941	942	943	944	945	946	948	946	946	946	948	948	949	948	948	948	948	949	950	950	949	945	946
8	946	945	944	943	942	942	942	943	941	942	942	942	945	947	948	949	951	953	953	953	952	952	953	953	947
9	946	933	926	923	920	929	936	938	940	941	942	943	942	942	944	944	948	951	955	961	959	961	954	953	943
10 q	941	937	941	942	943	944	945	946	947	944	943	944	945	946	946	945	945	948	950	950	952	953	952	950	946
11 q	948	946	944	940	942	942	942	942	943	944	945	946	948	947	947	948	947	946	945	945	945	947	948	948	945
12	949	943	941	938	936	937	936	937	937	939	940	942	943	943	944	944	943	943	943	949	949	948	948	946	942
13 d	945	946	942	941	937	936	932	932	935	937	939	940	943	949	962	966	1061	1075	1083	1027	1000	978	919	897	963
14	922	925	911	867	797	820	857	895	923	941	953	956	973	981	989	985	976	965	959	954	951	951	952	951	931
15	949	949	952	953	952	950	944	941	941	943	943	947	948	953	957	959	956	954	952	949	957	960	929	928	949
16 d	933	936	939	942	941	937	934	935	937	934	932	958	971	1013	740	500	655	1028	1073	1024	1010	977	963	963	*924*
17 d	961	961	966	971	969	914	901	942	957	944	967	990	992	997	1029	1089	1086	1035	1035	966	893	936	911	861	970
18 d	910	940	938	944	949	949	944	962	972	976	976	978	983	984	987	983	985	983	982	973	959	957	959	965	964
19	965	964	965	965	964	963	965	964	958	957	954	957	962	966	969	971	975	972	970	969	967	956	959	964	964
20	965	963	964	964	965	964	963	967	967	964	961	963	961	962	963	963	966	959	970	985	980	971	964	915	964
21	879	932	952	955	938	947	957	956	958	958	958	952	954	959	963	964	964	975	973	975	975	969	967	959	956
22	947	947	952	955	956	958	958	957	959	956	953	953	954	956	959	958	964	968	965	973	986	979	980	976	961
23	977	969	967	965	960	959	959	959	959	959	959	959	959	959	959	960	959	959	962	964	959	959	953	960	961
24 q	962	959	958	954	954	954	955	955	956	954	953	955	957	959	960	959	959	959	964	963	959	961	963	964	958
25 q	963	962	962	959	958	957	955	955	954	953	952	953	953	954	958	958	958	958	954	956	957	959	963	964	957
26	965	963	958	955	953	951	952	952	953	950	948	946	951	951	953	956	952	956	963	961	963	962	951	933	954
27 d	936	933	915	915	927	932	937	943	942	947	953	960	981	999	1086	1176	1146	1173	1143	1083	967	906	810	727	*977*
28	742	844	925	947	949	953	951	951	955	959	964	969	975	971	966	968	974	977	970	965	960	959	962	960	947
29	960	959	958	952	938	945	944	948	951	959	962	965	966	970	972	977	978	986	988	969	945	954	951	948	960
30	924	932	941	939	943	947	950	950	955	955	956	960	968	971	977	981	971	972	970	976	977	979	956	948	958
31	944	953	957	957	955	955	954	955	954	954	954	954	954	959	966	971	976	974	978	980	974	970	964	939	960
Mean	*937*	940	943	944	941	941	942	946	949	949	951	953	957	961	959	958	966	979	*979*	971	962	957	948	938	953

938 at 0-1h. January 1, 1945

Corrections to be applied to all values: H, -6γ; D, $-4{\cdot}3\gamma$; V, $+2\gamma$.

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

51 LERWICK — DECEMBER 1944

	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 11° +		Minimum 11° +		Range	Maximum 46,000γ +		Minimum 46,000γ +		Range				
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ				
1	15 7	402	356	20 34	46	15 11	51·9	30·8	15 43	21·1	15 35	1013	937	1 21	76	1,0,1,1,2,4,2,2	13	1	77·0
2	19 57	434	338	20 36	96	11 47	46·1	-6·6	19 48	52·7	17 3	1039	892	1 19	147	3,1,2,2,2,3,5,2	20	1	78·0
3	22 53	413	355	2 53	58	1 28	40·6	26·7	22 40	13·9	18 8	967	910	2 10	57	3,2,2,2,2,1,1,2	15	1	77·4
4	6 19	393	369	4 39	24	1 51	40·3	29·1	19 25	11·2	19 34	965	928	2 5	37	2,2,2,0,2,0,2,1	11	0	76·7
5	6 28	393	367	9 37	26	14 19	44·1	20·9	22 49	23·2	20 50	960	921	23 46	39	1,1,1,1,2,1,1,3	11	1	76·3
6	5 5	389	360	0 3	29	12 28	40·5	23·4	1 24	17·1	20 45	965	893	1 7	72	3,2,1,1,1,1,2,2	13	0	75·9
7 q	18 10	391	376	13 30	15	0 39	37·3	33·5	2 0	*3·8*	20 53	951	933	1 30	18	1,0,0,0,1,0,0,0	2	0	75·5
8	8 37	395	373	14 21	22	17 31	41·4	27·4	24 0	14·0	23 25	958	940	8 25	18	0,0,1,0,1,0,2,2	6	0	75·0
9	20 24	403	361	2 56	42	16 37	40·4	27·4	0 0	13·0	20 17	964	917	4 7	47	2,2,0,0,0,1,2,2	9	0	75·0
10 q	16 56	393	368	2 15	25	12 0	40·1	30·2	1 46	9·9	21 47	956	933	1 4	23	2,1,0,0,0,0,1,1	5	0	75·1
11 q	6 5	392	373	9 33	19	11 40	39·9	34·3	0 40	5·6	0 3	950	940	3 2	*10*	1,0,0,1,0,0,0,0	2	0	75·0
12	17 9	399	379	3 9	20	13 37	39·0	32·1	4 53	6·9	19 48	953	933	4 44	20	1,1,0,0,0,0,1,1	4	0	74·8
13 d	16 25	413	338	22 57	75	13 18	49·3	21·2	23 7	28·1	18 8	1112	871	23 11	241	1,1,1,2,3,4,4,4	20	1	75·0
14	5 47	386	320	3 20	66	6 10	49·2	27·8	0 13	21·4	14 53	991	787	4 55	204	3,4,4,2,2,2,0,0	17	1	74·9
15	22 43	419	369	22 14	50	7 5	38·3	18·4	22 53	19·9	22 2	964	905	22 49	59	0,0,1,1,1,0,2,4	9	1	75·9
16 d	16 43	*1410*	170	15 1	*1240*	16 31	*236·5*	*-77·2*	16 38	*313·7*	13 56	1171	*100*	16 29	*1071*	3,2,2,4,7,9,5,3	35	2	76·3
17 d	17 0	906	169	22 11	737	17 2	108·5	-3·3	17 32	111·8	14 59	1199	666	17 0	533	1,4,4,5,5,7,5,6	37	2	76·3
18 d	20 8	386	290	5 54	96	6 23	42·4	24·7	17 33	17·7	14 5	995	886	0 0	109	3,3,3,2,2,3,3,2	21	1	76·8
19	21 14	386	350	7 5	36	12 35	37·5	25·4	20 36	12·1	16 33	976	952	10 22	24	1,1,1,2,1,2,3,2	13	1	76·7
20	22 51	386	343	6 10	43	23 30	39·3	29·0	22 51	10·3	19 48	991	893	24 0	98	0,1,2,1,0,1,2,3	10	1	77·2
21	14 0	383	343	3 52	40	0 36	41·4	23·9	1 49	17·5	17 43	979	869	0 27	110	4,3,1,0,1,2,1,2	14	1	77·8
22	23 34	391	351	24 0	40	12 20	40·2	16·8	20 9	23·4	20 5	996	944	1 31	52	2,1,0,1,2,2,4,3	15	1	77·8
23	22 0	390	350	0 2	40	12 20	39·3	29·7	21 57	9·6	0 2	982	953	22 0	29	2,0,1,0,1,1,1,2	8	0	78·2
24 q	17 20	381	367	14 5	*14*	15 40	38·8	33·4	23 52	5·4	24 0	965	953	10 9	12	0,0,0,1,1,1,0,0	3	0	78·1
25 q	11 55	386	363	2 3	23	10 56	38·1	32·7	2 59	5·4	23 18	966	950	11 1	16	1,0,0,2,1,0,0,2	6	0	78·5
26	17 15	407	365	0 30	42	15 33	42·4	29·4	20 52	13·0	21 0	970	927	23 58	43	1,1,0,2,2,2,2,3	13	1	78·0
27 d	16 17	853	*68*	23 28	785	15 36	64·0	-3·6	23 40	67·6	16 58	*1223*	679	23 47	544	3,3,2,2,5,7,6,6	34	2	77·7
28	11 56	389	231	0 43	158	12 9	44·2	19·6	0 0	24·6	16 57	980	693	0 12	287	6,1,1,2,2,2,2,1	17	1	77·0
29	5 48	390	325	19 39	65	3 37	41·4	10·3	20 9	31·1	18 59	995	936	20 27	59	0,2,2,2,1,2,4,2	15	1	76·0
30	6 42	388	322	0 22	66	3 13	42·3	10·7	22 17	31·6	15 20	987	912	0 50	75	3,3,1,1,2,3,2,4	19	1	76·8
31	6 42	388	330	23 3	58	23 17	40·3	14·9	22 39	25·4	18 36	983	923	23 34	60	1,1,1,1,2,2,2,4	14	1	76·0
Mean	– –	459	327	– –	132	– –	50·8	19·1	– –	31·7	– –	1002	867	– –	135	1·7	13·9	0·74	76·5

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

DIURNAL INEQUALITIES OF THE TERRESTRIAL MAGNETIC ELEMENTS

ALL DAYS

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

52 LERWICK 1944

HORIZONTAL FORCE

	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
Jan.	−5·1	*−6·3*	−4·7	−1·1	+2·0	+3·8	+5·8	*+6·3*	+3·4	−1·2	−4·2	−3·9	−3·4	+1·4	+2·5	+4·6	+1·5	+2·3	+0·6	+0·5	+0·4	−2·8	−0·6	−1·8
Feb.	−3·8	−7·7	−5·7	−4·1	+2·7	+2·0	+2·3	*+6·6*	+2·5	−3·2	−7·6	*−9·7*	−6·3	−0·9	+1·9	+3·4	+3·6	+3·0	+3·8	+5·2	+4·0	+6·0	+3·0	−1·0
Mar.	−13·2	−10·7	−16·5	−10·5	−8·6	+2·0	+5·0	+0·6	−5·7	−15·2	*−17·0*	−15·6	−11·6	+0·7	+8·3	+13·0	+14·1	+15·7	+15·6	*+16·0*	+12·1	+9·6	+9·7	+2·2
Apr.	−1·4	−4·1	−5·1	+1·6	+2·7	+6·7	+2·6	−12·8	−24·3	−28·5	*−29·5*	−22·3	−15·4	−5·7	+2·8	+11·4	+17·0	+22·9	*+26·1*	+21·4	+13·6	+7·0	+7·6	+5·7
May	+0·4	−1·8	−0·8	+1·1	−0·5	−4·8	−6·9	−11·1	−18·4	−25·3	*−26·0*	−25·8	−16·5	−6·9	+4·6	+13·4	+21·0	*+26·3*	+24·5	+21·2	+16·5	+11·8	+5·7	−1·7
June	+0·8	−2·8	−3·2	−0·2	−1·3	−2·4	−5·7	−14·2	−21·2	−28·1	*−28·7*	−24·2	−15·4	−7·5	+3·2	+11·5	+18·2	+22·2	*+25·0*	+24·3	+19·9	+15·8	+9·1	+4·9
July	+4·7	+1·5	−0·8	+1·2	+1·7	−1·3	−5·6	−10·2	−17·0	−25·6	*−27·4*	−25·6	−19·1	−8·9	−0·6	+5·7	+12·5	+18·4	+22·5	*+23·4*	+19·6	+14·4	+9·9	+6·6
Aug.	−5·4	+0·9	−12·5	−0·8	+4·5	+4·1	−2·7	−7·7	−16·2	−23·3	*−25·1*	−22·5	−15·1	−6·7	+3·1	+8·8	+13·2	+15·8	+19·6	*+22·4*	+19·2	+11·7	+11·6	+3·1
Sept.	+1·2	−4·6	−1·6	+2·7	+4·5	+6·5	+3·0	−1·8	−10·3	−19·3	*−22·1*	−21·0	−14·8	−6·0	−1·0	+5·7	+8·0	+11·9	+14·6	*+18·1*	+12·2	+10·3	+5·4	−1·6
Oct.	−18·9	−11·9	−10·2	−6·4	+7·1	+9·8	+7·1	+6·3	−0·3	−9·6	−11·9	−11·4	−4·3	+2·5	+7·2	+11·4	*+16·7*	+13·0	+10·6	+9·7	+8·2	+2·7	−6·5	*−20·9*
Nov.	−0·3	−0·6	−1·1	+0·3	+4·2	*+6·9*	+6·8	+3·5	−1·7	−5·6	*−8·1*	−7·4	−6·4	−3·2	−1·3	+0·1	+2·7	+3·7	+2·0	+2·3	+1·7	+0·9	+0·2	+0·4
Dec.	−7·8	−6·9	−6·4	−5·0	+0·7	+2·6	+3·6	+0·9	−1·7	−3·2	−1·3	−2·5	+0·1	+3·7	+5·4	+11·4	*+25·3*	+11·8	+3·9	+0·7	−6·0	−8·1	*−11·7*	−9·5
Year	−4·1	−4·6	−5·7	−1·8	+1·6	+3·0	+1·3	−2·8	−9·2	−15·7	*−17·4*	−16·0	−10·7	−3·1	+3·0	+8·4	+12·8	+13·9	*+14·1*	+13·8	+10·1	+6·6	+3·6	−1·1
Winter	−4·3	−5·4	−4·5	−2·5	+2·4	+3·8	+4·6	+4·3	+0·6	−3·3	−5·3	*−5·9*	−4·0	+0·3	+2·1	+4·9	*+8·3*	+5·2	+2·6	+2·2	0·0	−1·0	−2·3	−3·0
Equinox	−8·1	−7·8	−8·3	−3·1	+1·4	+6·3	+4·4	−1·9	−10·1	−18·1	*−20·1*	−17·6	−11·5	−2·1	+4·3	+10·4	+13·9	+15·9	*+16·7*	+16·3	+11·5	+7·4	+4·1	−3·7
Summer	+0·1	−0·5	−4·3	+0·3	+1·1	−1·1	−5·2	−10·8	−18·2	−25·6	*−26·8*	−24·5	−16·5	−7·5	+2·6	+9·9	+16·2	+20·7	*+22·9*	+22·8	+18·8	+13·4	+9·1	+3·2

DECLINATION

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	−1·33	−0·61	+0·07	−0·36	−0·55	+0·50	+0·87	+1·15	+0·79	+1·64	+2·32	+2·65	+3·23	*+3·45*	+2·89	+1·74	+1·33	−0·58	−0·80	−1·74	−4·40	−4·30	*−4·45*	−3·51
Feb.	−1·99	−1·79	−0·66	−1·32	−1·62	−0·15	+1·00	+0·83	+0·17	+0·71	+1·75	+2·83	+3·74	*+3·92*	+3·23	+1·72	+0·98	+0·14	−0·87	−1·94	−2·77	−2·56	*−2·84*	−2·51
Mar.	−2·44	−2·00	−2·70	−2·24	−1·10	+0·14	−0·40	−0·68	−0·81	+0·42	+1·63	+3·94	+5·12	*+5·70*	+4·90	+2·80	+1·99	+1·32	−1·85	−2·06	−2·18	−2·70	*−3·89*	−2·91
Apr.	−1·51	−0·89	−1·08	−2·55	*−2·74*	−2·31	−2·41	−2·01	−2·36	−1·50	+0·39	+2·84	+5·41	*+6·46*	+5·50	+4·22	+3·06	+1·24	+0·28	−2·09	−1·39	−2·08	−2·34	−2·14
May	−0·76	−1·16	−2·34	−3·25	−4·35	*−4·45*	−4·27	−4·12	−3·17	−1·00	+1·20	+3·54	+5·12	*+5·39*	+4·89	+4·16	+3·38	+2·00	+1·48	+0·50	+0·07	−0·82	−1·05	−0·99
June	−1·99	−1·83	−1·96	−3·75	−5·00	−5·68	*−5·90*	−5·54	−4·24	−2·05	+0·73	+3·48	+5·60	*+6·51*	+6·11	+5·18	+3·45	+2·86	+2·47	+1·89	+1·14	+0·28	−0·51	−1·25
July	−1·58	−1·74	−1·98	−2·69	−4·41	−5·36	*−5·89*	−5·44	−4·58	−2·49	+0·19	+3·32	+5·71	*+6·60*	+6·37	+5·12	+3·59	+2·66	+1·74	+1·34	+0·61	+0·02	−0·25	−0·86
Aug.	−1·93	−2·41	−3·03	−2·79	−4·71	*−5·08*	−4·78	−3·22	−2·52	−0·84	+1·46	+4·44	+6·67	*+6·84*	+5·68	+4·17	+2·81	+1·54	+1·33	+0·32	−0·35	−0·60	−1·23	−1·77
Sept.	−2·03	−2·05	−1·98	−2·74	−2·72	−2·55	−2·63	−2·91	−2·40	−0·84	+1·34	+4·03	+6·08	*+6·53*	+5·96	+3·81	+2·75	+1·72	+1·21	−0·74	−1·04	−2·80	*−3·24*	−2·76
Oct.	−1·22	−1·89	−1·60	−1·02	−1·25	−1·16	−1·16	−1·60	−1·59	−0·12	+2·05	+4·56	+5·35	*+5·38*	+4·89	+3·55	+1·80	+1·50	+0·27	−1·85	−2·58	−3·37	−4·26	*−4·68*
Nov.	−1·96	−1·28	−0·79	−0·49	−0·53	−0·73	−0·59	−0·45	−0·03	+0·37	+1·08	+2·34	+3·18	*+3·41*	+3·12	+2·09	+0·97	+0·58	+0·06	−0·71	−1·54	−2·10	*−3·24*	−2·76
Dec.	−2·15	−1·51	−1·24	−0·50	−0·51	+0·47	+0·65	+0·63	+0·78	+0·91	+1·48	+1·96	+2·61	*+2·67*	+2·07	+2·35	+2·49	+0·96	+0·85	−1·62	−3·33	−2·76	*−4·40*	−2·86
Year	−1·74	−1·60	−1·61	−1·97	−2·46	−2·20	−2·13	−1·95	−1·66	−0·40	+1·30	+3·33	+4·82	*+5·24*	+4·63	+3·41	+2·38	+1·33	+0·51	−0·73	−1·48	−1·98	*−2·64*	−2·42
Winter	−1·86	−1·30	−0·65	−0·67	−0·80	+0·02	+0·48	+0·54	+0·43	+0·91	+1·66	+2·45	+3·19	*+3·36*	+2·83	+1·97	+1·44	+0·27	−0·19	−1·50	−3·01	−2·93	*−3·73*	−2·91
Equinox	−1·80	−1·71	−1·84	−2·14	−1·95	−1·47	−1·65	−1·80	−1·79	−0·51	+1·35	+3·84	+5·49	*+6·02*	+5·31	+3·59	+2·40	+1·45	−0·02	−1·59	−1·80	−2·74	*−3·43*	−3·12
Summer	−1·57	−1·79	−2·33	−3·12	−4·62	−5·14	*−5·21*	−4·58	−3·63	−1·59	+0·89	+3·69	+5·77	*+6·33*	+5·76	+4·66	+3·31	+2·26	+1·75	+1·01	+0·37	−0·28	−0·76	−1·22

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.	−23·6	*−24·8*	−16·1	−14·6	−12·6	−10·2	−8·4	−7·6	−5·4	−2·3	+0·4	+1·0	+6·3	+4·7	+10·1	+19·4	+20·8	*+23·8*	+20·0	+20·0	+17·6	+4·8	−6·9	−16·4
Feb.	−15·0	*−18·3*	−16·0	−12·9	−15·2	−14·2	−13·0	−9·9	−5·1	−0·5	+3·2	+3·3	+6·6	+14·8	+17·7	*+19·1*	+17·4	+17·5	+15·2	+13·4	+6·1	−1·6	−3·1	−8·5
Mar.	−35·3	*−39·6*	−32·8	−29·5	−25·9	−17·6	−9·0	−1·1	+2·7	+6·4	+8·7	+8·9	+12·3	+13·4	+19·0	+26·6	+27·4	+27·5	*+29·3*	+22·0	+15·3	+5·3	−9·1	−25·0
Apr.	−27·7	*−30·8*	−27·8	−19·1	−10·2	−7·5	−5·6	−1·5	−2·0	+5·1	+9·1	+6·5	+4·5	+6·4	+12·2	+16·6	+21·4	+25·2	*+26·8*	+26·4	+13·5	−1·0	−14·0	−26·5
May	*−22·7*	−22·2	−15·0	−6·8	−2·5	−2·0	−3·0	−2·0	−2·8	−4·9	−5·0	−4·0	−2·7	+2·6	+11·3	+14·1	+18·9	+17·6	*+19·4*	+15·9	+11·5	+2·0	−4·5	−14·2
June	*−11·8*	−10·9	−8·4	−6·9	−5·3	−5·7	−3·5	−1·5	−2·3	−3·5	−5·1	−7·3	−6·8	−3·7	+0·2	+7·9	+15·9	*+16·9*	+15·7	+14·8	+13·0	+7·4	+1·1	−10·2
July	−5·3	−5·3	−5·1	−5·1	−3·6	−2·4	−1·1	−1·0	−1·0	−2·7	−4·4	−6·4	*−6·6*	−3·8	−1·1	+3·5	+7·9	+10·3	*+10·8*	+9·5	+8·9	+6·4	+0·9	−3·3
Aug.	−18·5	−23·6	*−24·6*	−21·6	−13·3	−5·1	−1·1	−0·8	+0·6	+1·5	+0·6	−1·4	+0·1	+4·8	+9·8	+14·1	+18·2	*+20·3*	+18·1	+16·5	+13·1	+3·5	−0·5	−10·7
Sept.	−23·5	*−26·6*	−19·0	−12·9	−5·1	−2·5	0·0	+2·3	+3·0	+3·3	+1·5	−0·6	+0·1	+3·5	+10·1	*+15·9*	+14·7	+13·5	+14·7	+15·6	+10·6	+6·3	−5·0	−19·9
Oct.	*−34·4*	−31·9	−25·0	−17·0	−7·3	−2·0	+1·4	+2·8	+3·6	+4·5	+4·2	+4·9	+6·0	+7·2	+10·5	+15·2	+23·0	+23·4	*+25·0*	+23·2	+10·7	−0·5	−24·1	−23·4
Nov.	−5·8	−7·3	−7·8	−10·0	*−10·2*	−9·5	−8·1	−6·9	−4·9	−3·7	−2·0	−1·3	+0·7	+3·9	+7·5	+12·4	+15·3	*+15·8*	+13·8	+10·3	+7·0	+0·1	−3·9	−5·4
Dec.	*−16·2*	−13·3	−9·7	−9·1	−11·6	−11·9	−10·6	−6·7	−4·4	−3·6	−2·3	+0·4	+3·9	+8·1	+6·1	+5·4	+13·0	+25·7	*+25·9*	+18·6	+8·6	+4·5	−5·4	−15·4
Year	−20·1	*−21·2*	−17·3	−13·8	−10·2	−7·5	−5·2	−2·8	−1·5	0·0	+0·7	+0·3	+2·0	+5·2	+9·5	+14·2	+17·8	*+19·8*	+19·6	+17·3	+11·3	+3·1	−6·2	−14·9
Winter	−15·4	*−15·9*	−12·4	−11·7	−12·4	−11·5	−10·0	−7·8	−4·9	−2·5	−0·2	+0·9	+4·4	+7·9	+10·3	+14·1	+16·6	*+20·7*	+18·7	+15·6	+9·8	+1·9	−4·8	−11·4
Equinox	−30·2	*−32·2*	−26·1	−19·6	−12·1	−7·4	−3·3	+0·6	+1·8	+4·8	+5·9	+4·9	+5·7	+7·6	+12·9	+18·6	+21·6	+22·4	*+23·9*	+21·8	+12·5	+2·5	−13·1	−23·7
Summer	−14·6	*−15·5*	−13·3	−10·1	−6·2	−3·8	−2·2	−1·3	−1·4	−2·4	−3·5	−4·8	−4·0	0·0	+5·1	+9·9	+15·2	*+16·3*	+16·0	+14·4	+11·6	+4·8	−0·7	−9·6

DIURNAL INEQUALITIES OF THE TERRESTRIAL MAGNETIC ELEMENTS

INTERNATIONAL QUIET DAYS

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

53 LERWICK 1944

HORIZONTAL FORCE

	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
Jan.	−3·9	−2·8	*−4·8*	−3·7	−2·6	+0·4	+1·5	+2·2	+1·2	−1·3	−2·0	−1·6	−1·7	−0·2	+3·0	+5·7	*+6·2*	+4·4	+3·1	+2·2	−0·4	−0·3	−2·4	−2·2
Feb.	−2·4	−0·5	−3·3	−2·4	−0·7	+1·5	+3·2	+2·9	+0·7	−2·2	−8·1	*−10·5*	−9·2	−2·7	+1·3	+3·0	+3·1	+2·9	+4·2	+4·9	+3·3	+4·2	*+5·5*	+1·3
Mar.	+3·5	+2·3	−0·2	−0·1	+2·7	+3·5	+4·7	+1·3	−2·0	−9·3	−14·5	*−16·9*	−15·7	−10·9	−2·4	−0·9	+4·1	+4·9	+7·7	*+8·9*	+8·6	+6·3	+8·1	+6·3
Apr.	+7·1	+5·8	+5·3	+5·4	+5·0	+5·1	+4·8	−0·6	−8·7	−18·2	−24·9	*−25·6*	−21·9	−11·2	−5·1	−1·6	+3·2	+10·3	+11·6	*+12·8*	+11·3	+10·6	+9·9	+9·6
May	+6·4	+4·5	+3·7	+4·6	+4·9	+3·1	−2·4	−9·3	−17·9	−25·4	*−27·5*	−23·5	−17·2	−11·7	−5·3	+1·2	+6·7	+13·5	*+19·2*	+18·5	+17·3	+14·0	+12·7	+9·9
June	+4·9	+1·7	+3·0	+2·1	+2·1	−1·7	−6·1	−9·5	−15·6	−23·5	*−27·7*	−24·7	−17·1	−9·1	−0·4	+5·7	+9·5	+14·5	+18·7	*+19·1*	+18·4	+14·7	+11·7	+9·3
July	+5·3	+3·9	+4·3	+3·9	+3·7	+1·0	−3·5	−7·7	−14·7	−22·9	−25·1	*−25·7*	−19·7	−12·5	−4·5	−0·1	+6·5	+13·8	+17·3	*+21·1*	+20·3	+17·1	+11·5	+6·7
Aug.	+6·4	+4·5	+0·6	+1·2	+1·4	+1·9	−0·8	−5·2	−14·2	−22·3	*−24·8*	−22·8	−17·0	−9·3	−4·4	+3·2	+7·4	+10·5	*+16·2*	+15·2	+13·2	+14·3	+15·8	+9·0
Sept.	+5·4	+4·3	+4·6	+4·0	+1·0	+2·7	+2·6	−3·4	−10·4	−21·9	*−24·0*	−21·4	−15·4	−6·7	−4·2	+2·6	+2·6	+5·3	+11·0	*+14·0*	+13·2	+11·1	+11·8	+11·2
Oct.	+5·2	+2·0	+1·2	+1·8	+3·8	+7·0	+5·4	+1·4	−7·4	−20·2	*−23·6*	−21·4	−14·4	−6·8	−0·8	+2·8	+6·4	+8·0	+8·0	+8·4	+7·8	*+8·8*	+8·6	+8·0
Nov.	−2·8	−3·4	−2·6	−0·6	+2·0	+3·3	*+3·8*	+3·6	+0·2	−5·6	*−6·8*	−6·0	−3·0	+0·2	+0·6	+2·0	+2·8	+2·9	+2·8	+2·0	+1·2	+2·4	+1·0	0·0
Dec.	−2·9	−4·0	*−6·6*	−3·3	−1·6	−0·4	+1·1	+0·4	−1·4	−0·7	+0·2	+1·0	+0·3	+0·2	0·0	+1·9	+2·0	+3·6	+2·9	*+4·2*	+3·4	+1·3	0·0	−1·6
Year	+2·7	+1·5	+0·4	+1·1	+1·8	+2·3	+1·2	−2·0	−7·5	−14·5	*−17·4*	−16·6	−12·7	−6·7	−1·9	+2·1	+5·0	+7·9	+10·2	*+10·9*	+9·8	+8·7	+7·9	+5·6
Winter	−3·0	−2·7	*−4·3*	−2·5	−0·7	+1·2	+2·4	+2·3	+0·2	−2·5	−4·2	*−4·3*	−3·4	−0·6	+1·2	+3·1	*+3·5*	*+3·5*	+3·3	+3·3	+1·9	+1·9	+1·0	−0·6
Equinox	+5·3	+3·6	+2·7	+2·8	+3·1	+4·6	+4·4	−0·3	−7·1	−17·4	*−21·7*	−21·3	−16·9	−8·9	−3·1	+0·7	+4·1	+7·1	+9·6	*+11·0*	+10·2	+9·2	+9·6	+8·8
Summer	+5·7	+3·7	+2·9	+2·9	+3·0	+1·1	−3·2	−7·9	−15·6	−23·5	*−26·3*	−24·2	−17·7	−10·7	−3·7	+2·5	+7·5	+13·1	+17·9	*+18·5*	+17·3	+15·0	+12·9	+8·7

DECLINATION

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	−0·25	−0·87	−1·50	−1·35	−1·95	−1·61	−1·29	−0·67	−0·36	+0·69	+1·07	+1·53	+2·41	*+2·95*	+2·56	+2·11	+1·95	+2·03	+1·31	+0·83	−2·14	*−3·29*	−2·09	−2·07
Feb.	−2·00	*−2·89*	−2·04	−2·17	−1·91	−1·64	−1·49	−1·09	−0·82	+0·03	+0·84	+2·51	+3·22	*+3·61*	+3·06	+2·05	+1·51	+1·44	+1·09	+0·37	−0·72	−0·13	−1·36	−1·47
Mar.	−1·30	−0·81	−1·10	−0·61	−1·82	−1·91	−2·00	−2·33	*−2·64*	−1·51	+0·26	+2·75	+4·16	*+4·49*	+3·82	+2·13	+1·24	+0·83	+0·62	+0·39	−0·30	−0·87	−1·58	−1·91
Apr.	−0·82	−0·96	−1·19	−1·56	−2·26	−2·86	−3·38	*−3·84*	−3·69	−2·02	−0·42	+1·60	+3·70	*+5·12*	+4·61	+3·22	+1·98	+1·08	+0·60	+0·74	+0·19	+0·04	+0·18	−0·06
May	−1·09	−0·79	−1·55	−2·49	−3·63	−4·89	*−5·39*	−5·15	−4·09	−1·69	+0·69	+3·17	+5·03	*+5·57*	+5·43	+4·29	+2·63	+1·69	+1·09	+0·79	+1·13	+0·23	−0·13	−0·85
June	−0·76	−0·18	−2·35	−3·50	−4·76	*−5·02*	−4·66	−4·50	−3·77	−2·42	+0·04	+2·86	+5·48	*+6·74*	+5·69	+4·36	+3·02	+1·64	+0·86	+0·76	+0·49	+0·24	+0·06	−0·32
July	−1·32	−2·09	−2·32	−1·69	−3·21	−4·12	−5·21	*−5·79*	−5·08	−3·27	−1·08	+2·09	+4·34	+5·07	*+5·56*	+5·33	+4·45	+3·78	+2·89	+2·29	+2·10	+0·51	−1·70	−1·53
Aug.	−0·55	−1·80	−1·97	−1·60	−2·66	−3·47	−4·24	*−4·40*	−3·75	−1·94	+0·69	+3·66	+5·81	*+6·26*	+5·41	+3·86	+2·06	+1·05	+1·28	−0·18	−0·39	+0·38	−1·35	−2·16
Sept.	−0·88	−1·57	−1·97	−2·52	−1·97	−2·17	−2·92	*−3·23*	−2·87	−1·30	+0·97	+3·17	+4·30	*+4·89*	+3·83	+2·58	+1·43	+0·77	+0·58	+0·37	−0·47	+0·20	−0·45	−0·77
Oct.	−1·19	−0·46	−0·88	−1·69	−2·00	−2·16	−2·13	*−3·06*	−2·90	−1·37	+0·50	+2·86	+4·21	*+4·24*	+3·34	+2·21	+1·32	+1·24	+1·11	+0·60	+0·26	−1·19	−2·02	−0·84
Nov.	*−1·63*	−0·57	−0·04	+0·01	−0·35	−0·69	−0·73	−0·89	−0·88	−0·59	+0·45	+1·41	+2·17	*+2·27*	+1·62	+1·03	+0·85	+0·57	+0·13	−0·29	−0·58	−0·75	−1·39	−1·13
Dec.	−1·30	*−1·76*	−0·97	−1·14	−0·74	−0·74	−0·76	−0·76	−0·43	+0·18	+1·18	+1·70	*+2·02*	+1·66	+1·17	+1·20	+0·90	+1·04	+0·80	+0·22	−0·49	−0·84	−1·06	−1·08
Year	−1·09	−1·23	−1·49	−1·69	−2·27	−2·61	−2·85	*−2·98*	−2·61	−1·27	+0·43	+2·44	+3·90	*+4·41*	+3·84	+2·86	+1·95	+1·43	+1·03	+0·57	−0·08	−0·46	−1·07	−1·18
Winter	−1·29	*−1·52*	−1·14	−1·16	−1·24	−1·17	−1·07	−0·85	−0·62	+0·08	+0·89	+1·79	+2·45	*+2·62*	+2·10	+1·60	+1·30	+1·27	+0·83	+0·28	−0·98	−1·25	−1·47	−1·44
Equinox	−1·05	−0·95	−1·29	−1·59	−2·01	−2·27	−2·61	*−3·11*	−3·03	−1·55	+0·33	+2·59	+4·09	*+4·69*	+3·90	+2·54	+1·49	+0·98	+0·73	+0·53	−0·08	−0·45	−0·97	−0·89
Summer	−0·93	−1·21	−2·05	−2·32	−3·57	−4·37	−4·87	*−4·96*	−4·17	−2·33	+0·09	+2·95	+5·17	*+5·91*	+5·52	+4·46	+3·04	+2·04	+1·53	+0·91	+0·83	+0·34	−0·78	−1·21

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.	−2·5	−5·5	−3·5	−5·7	−5·9	*−6·0*	−5·3	−4·9	−4·5	−2·5	−1·3	−1·3	−1·9	−0·3	+0·3	−0·5	+0·1	+1·6	+3·7	+5·5	+12·1	*+12·7*	+9·7	+5·9
Feb.	−3·2	*−5·3*	−0·8	+1·0	+0·6	−0·3	−1·4	−2·2	−3·2	−3·3	−2·4	−1·6	−0·8	−0·7	+0·6	+3·0	*+3·8*	+3·7	+3·0	+3·2	*+3·8*	+1·9	−0·2	+0·8
Mar.	−1·4	−0·6	−1·4	−2·4	*−6·4*	−4·1	−2·0	+1·0	+1·4	+2·2	+1·0	−1·8	−3·2	−3·2	−1·2	+1·8	+2·6	+3·9	+3·0	+3·6	*+4·2*	+2·6	+1·0	−0·6
Apr.	−4·5	−1·9	+1·1	+3·1	+3·7	+3·0	+2·3	+1·1	−0·3	−1·3	−1·7	−5·5	*−7·9*	−6·1	−1·3	+1·7	+4·5	*+4·8*	+4·7	+2·3	+1·5	−0·3	−1·1	−1·9
May	−2·6	−1·4	+1·4	+3·4	+3·2	+3·1	+2·8	+3·2	+0·2	−4·2	−7·0	*−9·2*	−8·8	−8·2	−4·4	+1·0	+4·2	*+5·3*	+5·0	+5·0	+3·4	+3·6	+1·4	−0·4
June	−1·2	−1·9	−0·1	+4·4	+5·1	+5·3	+4·2	+2·7	−1·3	−4·0	−7·5	*−9·9*	−9·8	−9·7	−7·3	−3·0	+3·9	+6·9	+7·2	+5·9	+4·1	+3·2	+2·3	+0·5
July	+0·5	+0·5	+0·8	+1·5	+1·7	+3·1	+4·9	*+5·3*	+1·6	−1·5	−5·7	−8·5	*−9·9*	−6·9	−4·8	−0·5	+0·9	+3·1	+2·9	+2·3	+3·0	+3·1	+2·3	+0·3
Aug.	−5·7	−7·9	−3·3	−1·1	+1·5	+3·5	+3·3	+2·5	+0·1	−2·5	−5·3	*−8·9*	−8·9	−6·1	−2·3	+3·1	+9·3	*+10·3*	+7·9	+9·1	+7·7	+2·7	−3·7	−5·3
Sept.	*−7·1*	−3·8	+1·9	+0·1	+1·1	−2·0	−0·5	+0·3	−0·7	−0·4	−1·7	−4·1	−3·3	−0·6	+2·9	*+4·3*	+4·3	+3·6	+2·5	+1·3	+1·1	+1·2	−0·3	−0·1
Oct.	−11·8	−11·1	*−12·4*	−8·7	−2·9	−0·6	+1·7	+3·5	+4·0	+4·5	+1·2	−1·9	−2·4	−1·1	+1·4	+3·5	+3·1	+4·6	+6·1	*+7·7*	+7·2	+5·1	+1·2	−1·9
Nov.	+1·3	+0·7	−0·1	−1·7	−2·9	*−3·8*	−3·7	−3·5	−2·5	−1·1	+0·1	+0·7	+1·1	+2·1	+2·1	*+2·5*	+1·5	+0·8	+0·7	+0·7	+1·5	+0·9	+0·9	+1·7
Dec.	0·0	−2·9	−1·2	*−3·1*	−2·4	−2·3	−2·0	−1·7	−0·8	−2·3	−2·6	−1·7	−0·2	+0·3	+1·6	+1·1	+1·0	+1·3	+1·8	+2·1	+2·2	+3·5	*+4·6*	+3·7
Year	−3·2	−3·4	−1·5	−0·8	−0·3	−0·1	+0·4	+0·6	−0·5	−1·4	−2·7	−4·5	*−4·7*	−3·4	−1·0	+1·5	+3·3	+4·2	+4·0	+4·1	*+4·3*	+3·3	+1·5	+0·2
Winter	−1·1	*−3·3*	−1·4	−2·4	−2·7	−3·1	−3·1	−3·1	−2·7	−2·3	−1·5	−1·0	−0·5	+0·3	+1·1	+1·5	+1·6	+1·9	+2·3	+2·9	*+4·9*	+4·7	+3·7	+3·0
Equinox	*−6·2*	−4·3	−2·7	−2·0	−1·1	−0·9	+0·4	+1·5	+1·1	+1·3	−0·3	−3·3	−4·2	−2·7	+0·5	+2·8	+3·6	*+4·2*	+4·1	+3·7	+3·5	+2·1	+0·2	−1·1
Summer	−2·3	−2·7	−0·3	+2·1	+2·9	+3·7	+3·8	+3·4	+0·1	−3·1	−6·4	−9·1	*−9·3*	−7·7	−4·7	+0·1	+4·6	*+6·4*	+5·7	+5·6	+4·5	+3·1	+0·6	−1·2

DIURNAL INEQUALITIES OF THE TERRESTRIAL MAGNETIC ELEMENTS

INTERNATIONAL DISTURBED DAYS

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

54 LERWICK 1944

HORIZONTAL FORCE

	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
Jan.	−14·2	*−15·3*	−11·4	+2·7	+8·4	+8·5	*+10·2*	+7·5	+5·0	−4·5	−8·0	−2·7	−2·2	+0·3	+6·6	+2·7	+0·4	+8·1	−1·6	−4·7	−1·2	−0·1	+6·6	−1·1
Feb.	−11·6	*−32·1*	−20·5	−11·2	+15·3	−8·1	−7·8	+4·1	+6·9	−5·4	−9·1	−1·9	−4·0	+5·7	+4·7	+12·6	+7·5	+4·5	+6·6	*+17·3*	+11·9	+15·8	+4·9	−6·1
Mar.	−64·0	−63·5	*−87·6*	−54·8	−54·8	+4·1	+12·0	−4·4	−9·8	−8·7	−8·8	−4·6	0·0	+30·7	+30·8	+46·2	+31·4	+33·7	*+46·4*	+29·8	+32·4	+23·5	+22·4	+17·6
Apr.	−1·1	−1·0	−5·7	+2·7	+21·1	+24·2	−1·9	−65·1	*−79·7*	−74·4	−69·5	−21·3	−1·5	+11·8	+16·9	+28·5	+36·1	+44·0	*+45·9*	+32·7	+19·9	+18·2	+8·5	+10·7
May	−12·3	−16·1	−5·1	−0·9	−3·5	−20 1	−14·3	−7·5	−19·3	−29·1	−31·3	−37·7	−22·3	+1·7	+34·7	+48·7	*+53·1*	+47·1	+38·5	+24·1	+16·1	+11·1	−8·1	*−47·5*
June	−3·5	−16·4	−18·2	−8·7	−8·6	−5·0	−6·5	−25·0	−31·4	*−36·3*	−31·2	−19·6	−13·1	+0·6	+14·4	+35·7	*+42·4*	+38·2	+35·3	+29·0	+19·6	+15·5	+4·4	−11·6
July	+8·9	+4·0	+3·2	+7·3	+5·8	+2·4	−3·7	−8·4	−19·2	*−33·1*	−32·8	−28·4	−24·7	−12·6	−5·4	+8·9	+17·2	+19·0	+21·1	*+22·4*	+21·0	+14·1	+9·8	+3·2
Aug.	−55·5	−7·9	*−68·5*	−5·1	+11·1	+16·3	−6·1	−9·7	−20·1	−17·7	−16·3	−11·9	−2·7	+3·7	+19·1	+22·3	+31·3	+31·5	+38·7	*+43·5*	+35·3	−1·9	+6·7	−36·1
Sept.	*−25·3*	−24·7	−3·5	−4·1	+6·9	+5·8	−3·3	−3·5	−14·3	−17·9	−17·1	−16·3	−9·9	−3·3	+2·9	+19·1	+11·9	+17·2	+19·9	*+32·9*	+4·7	+9·7	+11·7	+0·5
Oct.	−110·5	−69·2	−64·8	−52·7	+23·8	+35·2	+27·9	+27·4	+24·2	+10·7	+8·6	+8·2	+20·9	+30·4	+36·2	+46·9	*+67·6*	+39·6	+31·3	+26·6	+10·2	−3·9	−56·0	*−118·6*
Nov.	+1·5	+2·3	+0·1	−2·3	+8·7	+15·2	+13·3	+3·3	−7·1	−7·1	−11·1	−6·7	*−12·7*	−8·5	−2·3	+7·5	*+15·3*	+11·0	−0·3	+0·7	−1·7	−6·1	−8·3	−4·7
Dec.	−11·6	−15·3	−11·4	−6·9	−2·3	−7·2	−1·7	−13·5	−18·6	−15·3	−6·6	−16·7	−3·4	+14·3	+28·6	+63·1	*+156·9*	+68·6	+15·9	−0·9	−36·6	−50·1	*−74·0*	−55·3
Year	*−24·9*	−21·3	−24·5	−11·2	+2·7	+5·9	+1·5	−7·9	−15·3	−19·9	−19·4	−13·3	−6·3	+6·2	+15·6	+28·5	*+39·3*	+30·2	+24·8	+21·1	+11·0	+3·8	−5·9	−20·7
Winter	−9·0	−15·1	−10·8	−4·4	+7·5	+2·1	+3·5	+0·3	−3·5	−8·1	−8·7	−7·0	−5·6	+2·9	+9·4	+21·5	*+45·0*	+23·1	+5·1	+3·1	−6·9	−10·1	*−17·7*	−16·8
Equinox	*−50·2*	−39·6	−40·4	−27·2	−0·7	+17·3	+8·7	−11·4	−19·9	−22·6	−21·7	−8·5	+2·4	+17·4	+21·7	+35·2	*+36·7*	+33·6	+35·9	+30·5	+16·8	+11·9	−3·3	−22·5
Summer	−15·6	−9·1	−22·1	−1·9	+1·2	−1·6	−7·7	−12·7	−22·5	*−29·1*	−27·9	−24·4	−15·7	−1·7	+15·7	+28·9	*+36·0*	+33·9	+33·4	+29·7	+23·0	+9·7	+3·2	−23·0

DECLINATION

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	+0·45	+2·27	+3·25	+0·17	+0·07	+2·90	+4·53	*+5·43*	+4·53	+4·85	+4·63	+4·53	+5·41	+4·25	+2·39	+0·29	−0·85	*−13·76*	−8·83	−6·35	−7·37	−5·87	−4·21	−2·71
Feb.	−1·84	−2·56	+0·35	−2·80	−2·54	+4·40	*+9·46*	+7·54	+3·51	+2·80	+4·02	+4·20	+5·74	+5·26	+3·69	+1·52	−0·68	−7·42	−7·22	−7·72	*−9·43*	−5·70	−2·84	−1·74
Mar.	−2·33	*−5·96*	−3·99	−5·87	−1·07	+2·04	+0·07	+1·69	+2·11	+2·22	+1·65	+4·85	+5·09	+7·48	+4·97	−0·49	+2·41	−0·24	−4·73	−0·41	−1·67	−3·42	−3·01	−1·39
Apr.	−2·09	−1·68	−1·99	−3·91	−1·83	−0·10	+1·81	+4·91	+0·75	−2·24	+0·53	+2·17	+6·57	*+8·52*	+5·53	+3·63	+2·99	−2·46	−2·99	*−7·47*	−2·47	−2·04	−2·15	−3·99
May	−0·97	−0·55	−2·95	*−4·59*	−4·41	−3·20	−1·65	−2·35	−2·35	+0·09	+2·55	+4·29	+5·55	*+5·87*	+5·07	+3·83	+4·81	+1·14	+1·75	−1·27	−2·61	−2·65	−3·21	−2·19
June	−5·04	−5·09	−2·54	−5·10	−5·50	*−6·29*	−6·14	−5·60	−3·66	−0·83	+1·54	+3·66	+6·42	*+8·13*	+7·68	+7·40	+3·54	+4·19	+5·36	+4·28	+1·28	−1·91	−3·00	−2·78
July	−3·27	−2·45	−3·04	−2·95	−4·71	−5·21	*−5·83*	−4·27	−3·04	−1·07	+0·91	+4·27	+7·11	*+7·43*	+6·50	+4·87	+2·83	+1·53	+1·25	+0·39	−0·02	−0·65	−0·51	−0·07
Aug.	−4·18	−3·32	*−6·92*	−2·62	−6·64	−5·87	−2·64	+2·10	+1·16	+1·66	+3·46	+6·88	*+9·50*	+7·80	+5·42	+3·98	+2·68	−0·19	+0·44	−1·34	−1·68	−1·56	−3·08	−5·04
Sept.	−3·06	−3·53	−3·14	−4·37	−4·10	−2·25	−1·44	−1·49	−1·34	−0·05	+1·82	+4·99	+7·58	*+7·99*	+7·78	+3·89	+3·88	+1·95	+0·70	*−5·13*	+2·14	−3·05	−1·80	−3·69
Oct.	−5·82	−9·34	−6·48	−0·66	−0·62	−0·95	−0·66	−0·94	−0·50	+0·86	+4·06	+7·48	+7·34	+8·70	*+10·20*	+9·62	+4·58	+2·43	−0·40	−1·90	−5·22	−4·30	−4·88	*−12·60*
Nov.	−3·25	−2·55	−2·42	−1·15	−0·63	+0·13	+1·11	+1·41	+2·24	+2·51	+2·35	+4·35	+5·75	*+7·07*	+7·00	+2·87	−0·01	−0·21	−0·39	−2·31	−2·60	−5·03	*−9·11*	−7·13
Dec.	−1·99	+0·32	+0·29	−1·14	+0·14	+3·83	+2·84	+3·06	+3·55	+2·66	+1·15	−0·56	+0·41	+2·32	+0·59	+5·44	*+7·34*	−0·41	+0·46	−3·08	−5·37	−6·84	*−8·83*	−6·18
Year	−2·78	−2·87	−2·47	−2·92	−2·65	−0·88	+0·12	+0·96	+0·58	+1·12	+2·39	+4·26	+6·08	*+6·73*	+5·57	+3·90	+2·79	−1·12	−1·22	−2·69	−3·27	−3·59	−3·89	*−4·13*
Winter	−1·66	−0·63	+0·37	−1·23	−0·74	+2·81	+4·49	+4·36	+3·46	+3·21	+3·04	+3·13	+4·33	*+4·73*	+3·42	+2·53	+1·45	−5·45	−3·99	−4·87	−6·19	−5·86	*−6·25*	−4·44
Equinox	−3·33	−5·13	−3·90	−3·70	−1·91	−0·31	−0·05	+1·04	+0·25	+0·20	+2·01	+4·87	+6·65	*+8·17*	+7·12	+4·16	+3·47	+0·42	−1·85	−3·73	−2·87	−3·20	−2·96	*−5·42*
Summer	−3·37	−2·85	−3·86	−3·81	*−5·31*	−5·14	−4·07	−2·53	−1·97	−0·04	+2·11	+4·77	+7·15	*+7·31*	+6·17	+5·02	+3·47	+1·67	+2·20	+0·51	−0·76	−1·69	−2·45	−2·52

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.	−49·3	*−61·1*	−35·8	−40·3	−31·9	−17·9	−9·7	−9·9	−0·2	+5·5	+10·9	+9·9	+11·9	+22·9	+33·4	+44·7	+50·3	*+72·9*	+52·7	+35·7	+8·4	−18·1	−42·9	−42·1
Feb.	−42·9	−59·3	*−60·9*	−32·7	−50·5	−48·0	−45·5	−34·7	−10·5	+8·3	+21·1	+21·3	+34·1	*+68·1*	+65·3	+64·1	+56·7	+61·0	+43·7	+31·7	−10·9	−32·5	−24·7	−22·3
Mar.	−90·1	−98·3	−94·7	*−110·7*	−89·7	−41·6	−10·5	+8·5	+16·9	+22·5	+32·9	+34·9	+50·1	+45·9	+60·3	*+75·1*	+59·5	+50·0	+39·3	+37·5	+29·1	+9·7	−2·3	−34·1
Apr.	−51·0	−65·0	−69·7	*−70·2*	−44·2	−27·4	−20·8	−12·0	−22·5	+13·4	+40·0	+30·4	+24·8	+26·6	+40·7	+50·4	+55·6	*+57·2*	+48·0	+41·0	+27·1	+10·6	−34·0	−49·0
May	−56·0	−52·5	−30·9	−12·0	−7·9	−9·9	−18·6	−13·1	−7·3	−3·6	−0·5	+10·7	+15·0	+23·1	+42·5	+43·0	*+61·3*	+42·5	+45·2	+39·7	+19·1	−19·2	−37·5	*−73·1*
June	−21·7	−21·9	−24·6	−31·1	−32·1	−27·1	−17·7	−11·9	−10·0	−3·7	−5·1	−4·7	+1·3	+6·5	+14 0	+33 1	*+55·9*	+50·1	+38·5	+29·9	+24·0	+9·1	−10·5	*−40·3*
July	−12·9	*−13·2*	−9·6	−10·3	−10·0	−8·6	−6·1	−6·6	−3·8	−2·9	−3·2	−3·8	+1·3	+8·4	+8·8	+8·5	+10·4	+13·0	*+14·5*	+9·6	+12·0	+6·3	+0·8	−2·6
Aug.	−41·9	−50·7	*−81·7*	−68·7	−47·1	−21·2	−7·1	−4·9	+2·1	+10·9	+19·3	+22·1	+25·3	+32·9	+36·5	+37·1	+43·5	*+53·0*	+48·1	+41·3	+25·9	−14·3	−20·3	−40·1
Sept.	−32·9	*−53·1*	−50·2	−43·7	−21·1	−12·5	−7·1	−1·5	+3·4	+7·3	+5·9	+5·9	+11·3	+17·3	+28·2	*+46·1*	+35·7	+28·1	+34·5	+40·7	+13·0	+6·7	−20·7	−41·3
Oct.	−105·1	*−120·0*	−101·5	−78·8	−33·8	−0·3	+13·6	+16·4	+16·1	+20·4	+22·3	+27·8	+31·5	+28·0	+30·9	+43·2	*+79·2*	+76·3	+72·8	+59·4	+27·3	−11·4	−78·3	−36·0
Nov.	−24·7	−24·4	−24·3	−35·0	*−41·4*	−36·1	−29·8	−20·4	−12·9	−9·2	−4·7	−2·8	+5·7	+16·0	+25·1	+42·2	+58·8	*+65·3*	+55·6	+38·4	+22·5	−8·6	−26·5	−28·8
Dec.	−22·6	−16·3	−19·6	−16·9	−14·9	−26·0	−29·9	−16·7	−11·0	−11·9	−6·2	+5·7	+14·4	+28·9	+1·2	−16·7	+27·1	+99·2	*+103·7*	+55·1	+6·2	−8·7	−47·2	*−76·9*
Year	−45·9	*−53·0*	−50·3	−45·9	−35·4	−23·1	−15·8	−8·9	−3·3	+4·7	+11·1	+13·1	+18·9	+27·1	+32·2	+39·2	+49·5	*+55·7*	+49·7	+38·3	+17·0	−5·9	−28·7	−40·5
Winter	−34·9	−40·3	−35·1	−31·2	−34·7	−32·0	−28·7	−20·4	−8·7	−1·8	+5·3	+8·5	+16·5	+34·0	+31·3	+33·6	+48·2	*+74·6*	+63·9	+40·2	+6·5	−17·0	−35·3	*−42·5*
Equinox	−69·8	*−84·1*	−79·0	−75·9	−47·2	−20·5	−6·2	+2·9	+3·5	+15·9	+25·3	+24·7	+29·4	+29·5	+40·0	+53·7	*+57·5*	+52·9	+48·7	+44·7	+24·1	+3·9	−33·8	−40·1
Summer	−33·1	−34·6	−36·7	−30·5	−24·3	−16·7	−12·4	−9·1	−4·7	+0·2	+2·6	+6·1	+10·7	+17·7	+25·5	+30·4	*+42·8*	+39·7	+36·6	+30·1	+20·3	−4·5	−16·9	*−39·0*

RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1944

The ranges are derived from the diurnal inequalities printed in Tables 52 to 54

55 LERWICK 1944

	All days			Quiet days			Disturbed days		
	H	D	V	H	D	V	H	D	V
	γ	′	γ	γ	′	γ	γ	′	γ
Jan.	12.6	7.90	48.6	11.0	6.24	18.7	25.5	19.19	134.0
Feb.	16.3	6.76	37.4	16.0	6.50	9.1	49.4	18.89	129.0
Mar.	33.0	9.59	68.9	25.8	7.13	10.6	134.0	13.44	185.8
Apr.	55.6	9.20	57.6	38.4	8.96	12.7	125.6	15.99	127.4
May	52.3	9.84	42.1	46.7	10.96	14.5	100.6	10.46	134.4
June	53.7	12.41	28.7	46.8	11.76	17.1	78.7	14.42	96.2
July	50.8	12.49	17.4	46.8	11.35	15.2	55.5	13.26	27.7
Aug.	47.5	11.92	44.9	41.0	10.66	19.2	112.0	16.42	134.7
Sept.	40.2	9.77	42.5	38.0	8.12	11.4	58.2	13.12	99.2
Oct.	37.6	10.06	59.4	32.4	7.30	20.1	186.2	22.80	199.2
Nov.	15.0	6.65	26.0	10.6	3.90	6.3	28.0	16.18	106.7
Dec.	37.0	7.07	42.1	10.8	3.78	7.7	230.9	16.17	180.6
Year	31.5	7.88	41.0	28.3	7.39	9.0	64.2	10.86	108.7
Winter	14.2	7.09	36.6	7.8	4.14	8.2	62.7	10.98	117.1
Equinox	36.8	9.45	56.1	32.7	7.80	10.4	86.9	13.59	141.6
Summer	49.7	11.54	31.8	44.8	10.87	15.0	65.1	12.62	81.8

AVERAGE DEPARTURE

Arithmetical averages of diurnal inequalities in Tables 52 to 54 taken regardless of sign

56 LERWICK 1944

	All days			Quiet days			Disturbed days		
	H	D	V	H	D	V	H	D	V
	γ	′	γ	γ	′	γ	γ	′	γ
Jan.	2.9	1.89	12.4	2.5	1.62	4.3	5.6	4.16	29.9
Feb.	4.2	1.75	11.2	3.5	1.64	2.1	9.8	4.37	39.6
Mar.	10.4	2.33	18.7	6.1	1.72	2.4	30.1	2.88	47.7
Apr.	12.4	2.45	14.5	9.8	1.92	2.8	26.8	3.12	38.8
May	12.2	2.64	9.5	11.7	2.65	3.9	22.9	2.91	28.5
June	12.9	3.31	7.7	11.3	2.69	4.6	19.6	4.46	21.9
July	11.8	3.11	4.9	11.4	3.20	3.1	14.0	3.09	7.8
Aug.	11.5	2.94	10.1	10.1	2.54	5.1	21.6	3.76	33.2
Sept.	8.7	2.79	9.6	8.9	1.92	2.1	11.9	3.38	23.7
Oct.	9.4	2.45	13.8	7.9	1.82	4.6	39.6	4.61	47.1
Nov.	3.0	1.43	7.2	2.6	0.88	1.6	6.6	3.07	27.5
Dec.	5.8	1.74	10.0	1.9	1.01	1.9	28.9	2.87	28.5
Year	7.7	2.25	10.1	6.6	1.91	2.3	15.9	2.87	29.7
Winter	3.5	1.63	10.1	2.4	1.27	2.3	10.3	3.44	30.2
Equinox	9.4	2.45	14.0	8.1	1.82	2.4	22.3	3.20	38.1
Summer	11.8	2.99	7.8	11.1	2.73	3.9	17.9	3.36	21.9

NON-CYCLIC CHANGE

57 LERWICK 1944

	All days			Quiet days			Disturbed days		
	H	D	V	H	D	V	H	D	V
	γ	′	γ	γ	′	γ	γ	′	γ
Jan.	+0.6	+0.14	+2.6	+3.4	−0.58	−3.5	−0.7	+2.71	+2.3
Feb.	+0.7	+0.20	−0.4	+4.6	+1.17	0.0	−3.6	+2.29	−1.1
Mar.	−0.4	−0.08	−0.7	+0.3	−0.59	−5.5	+25.2	+2.52	+27.9
Apr.	+0.5	+0.04	−1.0	+0.8	+0.84	+3.4	−7.1	−0.25	+12.7
May	−0.1	−0.08	+1.5	+1.5	+0.57	+3.6	−22.6	−0.07	−27.6
June	+0.3	+0.04	−0.1	+2.4	+0.10	−0.6	−12.0	−0.62	−19.2
July	−0.3	−0.06	−0.1	−0.4	−0.62	−2.1	−3.8	+0.39	+6.6
Aug.	−1.0	−0.05	−1.4	+1.7	−0.17	−4.6	−21.0	−2.02	−23.9
Sept.	+0.2	−0.08	−1.5	+5.8	−0.07	+1.3	+23.7	+1.17	−11.9
Oct.	+0.6	+0.12	+3.6	+3.7	+1.66	+4.3	+13.2	+3.13	+44.5
Nov.	+0.1	−0.01	+0.1	+1.8	+1.05	−0.5	−6.8	−1.47	+1.4
Dec.	−0.7	−0.13	−0.2	+0.2	−0.06	+1.9	−35.6	−3.69	−40.3
Year	0.0	0.00	+0.2	+2.1	+0.27	−0.2	−4.3	+0.34	−2.4
Winter	+0.2	+0.05	+0.5	+2.5	+0.39	−0.5	−11.7	−0.04	−9.4
Equinox	+0.2	0.00	+0.1	+2.7	+0.46	+0.9	+13.7	+1.64	+18.3
Summer	−0.3	−0.04	0.0	+1.3	−0.03	−0.9	−14.9	−0.58	−16.0

"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 V and for all days for N, W, I and T

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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				
	14,000γ +			11° +			46,000γ +						
	γ	γ	γ	′	′	′	γ	γ	γ	γ	γ	° ′	γ
Jan.	373	375	366	38.4	39.1	36.7	937	938	933	14077	2900	72 58.5	49088
Feb.	375	379	363	37.9	37.6	37.6	933	933	924	14080	2898	72 58.3	49085
Mar.	368	377	349	37.1	37.8	36.1	931	937	913	14074	2894	72 58.7	49081
Apr.	374	381	360	36.5	36.4	36.4	939	943	943	14080	2892	72 58.4	49091
May	383	385	383	36.5	36.4	36.6	938	937	941	14089	2894	72 57.8	49092
June	385	385	386	35.6	36.2	35.0	935	937	930	14092	2891	72 57.6	49090
July	382	381	379	35.0	35.1	35.5	943	944	947	14089	2888	72 58.0	49097
Aug.	373	374	358	34.3	33.8	34.1	934	942	914	14081	2883	72 58.4	49085
Sept.	372	376	366	33.3	33.5	32.5	940	943	938	14081	2879	72 58.6	49091
Oct.	366	372	343	32.1	32.6	31.1	948	950	932	14076	2873	72 59.2	49097
Nov.	376	380	371	32.1	31.7	32.5	951	948	957	14086	2875	72 58.5	49103
Dec.	369	374	365	31.1	31.5	30.6	955	952	962	14080	2869	72 59.1	49104
Year	375	378	366	35.0	35.1	34 6	940	942	936	14082	2886	72 58 4	49092

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Night commencing			
			JANUARY
2	b	⌓	Variable cloud: faint glow around 21h. Moonlight
3	b	..	Variable cloud
4	c	..	Cloudy
8	c	..	Cloudy
10	b	..	Variable cloud
12	b	..	Variable cloud
13	b	⌓	Variable cloud. Isolated rays at 20h. 26m.
15	b	⌓	Variable cloud. Glow and rays 18h. 30m. to 19h. 35m. seen through cloud. Extensive glow and arcs with rays 20h. 45m. to 21h. 30m. Moonlight
16	c	..	Variable cloud
17	c	..	Cloudy
18	ca	⌓	Faint glow 20h. 30m. Cloudy becoming fair
19	a	⌓	Variable sky. Faint glow during evening
22	a	..	Fair
27	ca	⌓	Variable sky. Moderate glow seen between breaks in cloud. 20h.
28	b	..	Moonlight: fair becoming cloudy
29	b	..	Fair. Moonlight
31	b	..	Variable cloud. Moonlight
			FEBRUARY
1	cb	..	Cloudy to fair. Moonlight
3	cb	..	Variable cloud. Moonlight
5	cb	..	Variable cloud. Moonlight
8	cb	..	Cloudy. Moonlight
9	cb	..	Variable cloud. Moonlight
14	a-ca	..	Fair becoming variable
16	a	⌓	Faint glow 20h. 30m. to 22h. Fair
17	a	..	Fair
18	c-ca	..	Variable cloud becoming cloudy
20	a	⌓	Fine. Faint glow 19h. weak homogeneous arc 19h. 20m. to 19h. 30m. gradually fading: activity ceased 20h. 20m.
22	a-c	..	Fair becoming cloudy
23	ca	⌓	Faint glow seen through cloud 19h.
24	c-ca-c	..	Variable sky 19h. to 21h. otherwise cloudy
25	c-ca	..	Cloudy becoming variable
26	cb	⌓	Faint glow seen through breaks in cloud 22h. New moon
27	a	..	Fair
			MARCH
1	cb	..	Cloudy. Moonlight
2	cb	..	Variable cloud. Moonlight
3	cb	..	Cloudy. Moonlight
6	cb	..	Cloudy. Moonlight
7	b	..	Variable cloud. Moonlight
9	b	..	Fine. Moonlight
10	cb	..	Variable cloud. Moonlight
15	c-a	..	Cloudy becoming fair
18	c-ca	⌓	Moderate glow through break in cloud 22h.
19	a	⌓	Moderate glow seen between clouds 20h. to 22h.
20	a-ca	..	Fair becoming cloudy
21	a	⌓	Fine: moderate glow varying in intensity 20h. 15h. to 23h. 30m. with occasional bright arcs and rays throughout evening
23	a	⌓	Fair: moderate glow 21h.
26	ca	⌓	Faint glow at intervals during evening. Variable cloud
27	c	..	Cloudy
28	b	⌓	Fair: faint glow 20h. to 21h. increasing in intensity accompanied by rayed arcs and homogeneous arcs around 21h. 10m. Moderate glow during remainder of evening. Moonlight
29	cb	..	Variable sky. Moonlight
30	cb	..	Variable sky. Moonlight
31	b	..	Fine. Moonlight
			APRIL
1	b	..	Fair. Moonlight
5	b	..	Fair. Moonlight
10	c-ca	..	Cloudy
16	ca	..	Cloudy
20	cb	..	Cloudy: northern horizon light
22	a	..	Fine
24	c	..	Cloudy
27	c	..	Cloudy
			AUGUST
22	b	⌓	Homogeneous arc and isolated rays 22h. 50m. to 23h. 5m. Faint glow at 23h. 20m.
			SEPTEMBER
2	b	..	Fair. Bright full moon
3	b	..	Fine. Bright moonlight
5	cb-c	..	Variable sky. Moonlight
6	cb-b	⌓	Cloudy becoming fine. Faint glow suspected
7	cb	⌓	Cloudy: faint glow suspected
10	ca	⌓	Cloudy: moderate glow at 22h. 30m.
12	a-ca	..	Fine becoming cloudy
13	a	..	Fine
16	c-a	..	Cloudy becoming fair
18	a	..	Fine becoming fair
19	a-ca	..	Variable cloud
20	a	⌓	Fine. Bright display 21h. to 0h. 45m. Mainly bright rays forming coronae at times
23	a	⌓	Fair. Bright display 20h. 20m. to 2h. 10m.
24	a	⌓	Fine. Moderate glow 20h. 15m. to 21h.
25	b	⌓	Fair. Moonlight. Faint glow observed between clouds
26	cb	..	Variable cloud. Moonlight
27	cb	..	Variable cloud. Moonlight
29	c	..	Cloudy
1	c	..	Cloudy
2	ca	..	Cloudy becoming variable sky
3	ca	..	Variable sky
5	c	..	Cloudy
6	ca	..	Variable sky
9	c	..	Cloudy
12	a	⌓	Moderate activity 20h. 15m. to 21h. Fine
13	a	⌓	Fair. Faint glow from 20h. 45m. Homogeneous arc at 23h.
14	a	⌓	Faint glow 4h. 30m. with pulsating surface of moderate intensity partly hidden by cloud
15	a	⌓	Fine. Moderate activity 18h. 30m. to 2h.
16	a	⌓	Fair: faint glow 0h. 30m.
18	a	..	Fine
19	a	..	Fine
20	a	⌓	Fair: moderate glow 19h. to 22h.
23	a-ca	⌓	Fine: bright display 18h. to 0h. 35m. when the sky became overcast. Bundles of rays moving from west to east along bands showing red colouration along the leading edge were outstanding
24	ca-c	⌓	Cloudy. Faint glow seen through breaks in clouds 19h. 15m.
25	a	⌓	Fine. Moonlight. Moderate glow at 00h. 30m.
27	a	..	Fine. Bright moonlight
30	b	..	Fine. Bright moonlight
			NOVEMBER
1	b	..	Fine: bright moonlight
3	cb-b	..	Fair to fine. Bright moonlight
4	cb	..	Variable cloud. Moonlight
5	ca-cb	⌓	Cloudy becoming variable with moonlight. Moderate glow at 18h. Activity invisible when moon rose
6	a-b	⌓	Faint glow at 18h. increasing in intensity: fine with bright moonlight
7	ca-cb	..	Cloudy with moon after 22h.
8	ca-a	..	Fair to fine
9	a	..	Fair
10	a-ca	⌓	Variable cloud: moderate activity from 18h. 30m. to 23h. 30m.
11	a	⌓	Fair to fine: faint glow 18h. continuing during evening
12	a	..	Fair
13	c-a	..	Cloudy becoming fine
15	ca-a	..	Cloudy to fair
16	a	⌓	Fine: faint glow 20h. 30m.
18	c	..	Cloudy
19	ca-a	⌓	Variable cloud becoming fine: moderate activity 18h. to 21h. 30m.
20	a	⌓	Fair: moderate activity 17h. 10m. to 22h.
21	a-b	..	Fine with moonlight from 24h.
23	ca	..	Variable sky. Moonlight
24	cb	..	Cloudy. Moonlight
25	cb-b	..	Variable sky. Moonlight
26	b	..	Fine. Moonlight
28	cb-c	..	Cloudy. Moonlight
29	b	..	Variable sky to fair. Moonlight

59 LERWICK (contd.) 1944

Night commencing		DECEMBER	Night commencing		DECEMBER (contd.)	Night commencing		DECEMBER (contd.)
1	cb ..	Variable sky. Moonlight	13	a ⌓	Fair. Faint activity decreasing intensity	22	b ..	Cloudless, moonlight
2	b ..	Fair. Moonlight				23	cb ..	Cloudy, moonlight
4	cb ..	Cloudy. Moonlight	17	c-a ⌓	Cloudy becoming fine. Moderate activity 18h. 45m. to 23h. 40m.	24	cb-b ..	Cloudy becoming fine. Moonlight
5	a-b ..	Fine: moon at end of evening				25	cb ..	Variable sky to cloudy: moonlight
7	c-ca ..	Cloudy to fair	18	a ..	Fair	27	cb ⌓	Variable sky: moderate activity 22h. 45m. to 23h. 5m. Bright moonlight
8	a ..	Fair	19	ca-a ⌓	Belt of cloud to north all evening. Homogeneous band, varying in intensity, 4h. 10m. to 5h. 30m.			
9	ca ..	Cloudy				29	cb ..	Variable cloud: bright moonlight
10	a ⌓	Fine. Moderate glow all evening	20	a ..	Fine	30	cb-c ..	Fair becoming cloudy
11	ca ..	Cloudy	21	a ..	Fine	31	cb-c ..	Cloudy
12	a ..	Fine						

In the interests of brevity there have been omitted from Table 59 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 ⌓ . 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 ..; 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.

The letters a, b, c, have the following significance:-

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

60 OTHER SCOTTISH STATIONS 1944

Night commencing		Night commencing		Night commencing	
	JANUARY		MAY		OCTOBER
1	Montrose	13	Fraserburgh	1	Pitlochry (Fincastle)
8	Sumburgh			5	Tiumpanhead, 20h.–23h.
15	Sullom Voe; Alness; Fortrose; Lossiemouth; Nairn; A.; Kettins			6	Alness; Lossiemouth; Montrose
18	Sullom Voe			9	Braemar
20	Sullom Voe; Craibstone		JUNE	11	Stornoway
26	A.; Montrose; Kettins			13	Barnsness, 20h.50m.–21h.45m.
28	A.; Montrose	6	Noup Head, 1h.–2h.30m. (7th)	14	Sullom Voe; Noup Head, 24h.–4h.30m. (15th); Stroma, 0h.30m. (15th) onwards; Stornoway; Skye (Duntuilm); Alness; Nairn; Lossiemouth; A.; Montrose; Buddon Ness; Errol; Leuchars; Edinburgh; St. Abb's; Paisley; Eskdalemuir; West Freugh
	FEBRUARY		JULY	15	Sullom Voe; Sumburgh; Stornoway; Alness; A.; Buddon Ness
1	Comrie	28	Lossiemouth	16	Sumburgh; Stornoway
4	Comrie			17	Nairn
5	Rothesay			18	Stornoway; Nairn
8	Comrie			23	Sumburgh Head, 21h.–23h.30m.; Skye (Duntuilm); Alness; A.; Loch Lochy; Montrose; Buddon Ness; Errol; Leuchars; Edinburgh; Paisley; Kilmarnock; Prestwick
9	Comrie				
15	Sullom Voe, glow 20h.; Nairn		AUGUST		
19	Noup Head, 0h.30m.–2h. (20th)				
20	Copinsay; A.; 21h.	2	Stornoway; Alness; Lossiemouth		
26	Paisley	13	Sumburgh; Alness; Lossiemouth	24	Sumburgh; Stornoway; Alness
28	Nairn	14	Alness	25	Sumburgh
		19	Alness		
		22	Flannan Islands, 2h.15m.–4h. (23rd)		
		23	Sumburgh		
		27	Sumburgh		NOVEMBER
	MARCH				
				5	Sumburgh; G.C.; A.; Montrose; Edinburgh
12	Montrose			6	Sumburgh; Edinburgh
15	Sumburgh			7	Sumburgh
18	Sumburgh; Tiumpanhead, 1h.30m.–4h.30m. (19th); Noup Head, 0h.30m.–5h. (19th); Stornoway; Alness; Lossiemouth; Nairn; A.; Montrose; Errol		SEPTEMBER	8	Sumburgh
				9	Sumburgh
		3	Sumburgh	10	Sumburgh
		8	Alness	18	Fortrose
19	Sumburgh; Errol; Paisley; E.	10	Lossiemouth	19	Sumburgh
21	Sumburgh	11	Skye (Duntuilm)	20	Sumburgh, Stornoway; A.; Buddon Ness; Edinburgh; Charterhall; Paisley; Rhinns of Islay, 23h.–24h.
26	Sumburgh; McArthur's Head, 23h.–1h. (27th)	20	B.; Sumburgh Head, 22h.15m.–3h. (21st); Noup Head; Copinsay; Rudh-Re, 22h.–5h. (21st); Stornoway; Skye (Duntuilm); Lossiemouth		
28	Sumburgh; Stornoway; Lossiemouth				
29	Sumburgh; Stornoway				
		21	B.; Sumburgh; Stornoway		
		22	B.; Stornoway; Skye (Duntuilm); Alness; Nairn; Barra (Craigston); Paisley		DECEMBER
	APRIL	23	B.; Kirkwall; Wick; Stornoway; Alness Nairn; Paisley	16	Nairn
				17	Sumburgh Head, 19h.30m.–24h.; Fair Isle South, 19h.–19h.15m. very bright to S.E., 20h.–21h. to N.; Noup Head, 18h.–21h.; Lossiemouth; Edinburgh
1	Sumburgh	24	B.; Sumburgh; Kirkwall; Alness; Nairn; Lossiemouth; Paisley		
2	Comrie				
16	Sumburgh; Skye (Duntuilm)	25	Sumburgh; Nairn		
19	Stornoway, glow 22h.	26	Sumburgh	20	Stornoway
23	Leuchars	27	B.	21	Stornoway

For brevity, stations which figure frequently in the above table are represented by their initials, namely A – Aberdeen, B – Baltasound, D – Deerness, E – Eskdalemuir, G.C. – Gordon Castle, K – Kirkwall.

ABERDEEN

ABERDEEN OBSERVATORY

Latitude	57°10′N.
Longitude	2°06′W.
G.M.T. of Local Mean Noon	12h. 8m.

Heights of instruments	above M.S.L.	above ground
	m.	m.
Barometer	26·0	..
Thermometer bulbs, north-wall screen	..	12·5
Rain-gauge site	24·1	..
Beckley rain-gauge rim	..	0·6
Sunshine recorder	..	20·7
Pressure-tube anemograph	37	13
Robinson cup anemograph	36	23

INTRODUCTION

A description of the site and instruments is given in the *Observatories' Year Book* for 1938, and no noteworthy changes have occurred except that after July 31 the grass minimum thermometer was read at 6h. The reading is entered to the day of reading.

REVIEW OF THE METEOROLOGICAL RESULTS

The mean temperature for the year was 281·3°A. a little higher than the normal. The extremes recorded in the north-wall screen were 294·9°A. on August 8 and 268·1°A. on January 11. The lowest reading of the grass minimum thermometer was 261·7°A. on January 11.

The total rainfall for the year was 663 mm.; 85 mm. less than the normal.

The sunshine total 1080 hr. was well below the normal.

The highest wind speed recorded in a gust was 30·3 m./sec. on February 4.

The results of the harmonic analysis of the diurnal inequalities of pressure are set out in the accompanying table. Average values of the various coefficients for the period 1871–1926 computed by Dr. A. Crichton Mitchell* are given for comparison. Dr. Mitchell gave the phase angles in local apparent time and in volumes of the *Observatories' Year Book* earlier than 1935 they were so quoted; the angles have now been converted to local mean time.

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* MITCHELL, A. CRICHTON: Diurnal variation of pressure and temperature at Aberdeen 1871-1926. *Quart. J.R. met. Soc., London*, 55, 1929, p. 197.

HARMONIC COMPONENTS OF THE DIURNAL INEQUALITY OF ATMOSPHERIC PRESSURE
ABERDEEN, LONGITUDE 2°06′W.

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

	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926
	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°
January	0.39	0.09	165	169	0.19	0.23	136	146	0.11	0.13	339	348	0.08	0.05	195	211
February	0.41	0.16	149	173	0.23	0.27	155	143	0.15	0.10	355	346	0.01	0.03	261	84
March	0.07	0.16	233	156	0.22	0.29	143	147	0.03	0.05	318	330	0.03	0.03	16	27
April	0.15	0.15	63	155	0.24	0.28	140	151	0.01	0.02	195	188	0.03	0.04	327	359
May	0.10	0.10	249	136	0.20	0.24	125	145	0.08	0.06	173	166	0.04	0.02	300	333
June	0.18	0.06	121	104	0.23	0.22	150	141	0.05	0.07	167	155	0.01	0.01	319	331
July	0.08	0.09	157	135	0.21	0.21	133	142	0.06	0.07	149	155	0.01	0.01	293	339
August	0.22	0.11	176	161	0.28	0.23	132	144	0.05	0.04	190	165	0.00	0.03	10	333
September	0.11	0.12	146	147	0.32	0.29	162	151	0.03	0.03	281	346	0.05	0.05	9	345
October	0.22	0.15	183	187	0.33	0.27	152	156	0.09	0.07	3	0	0.05	0.03	60	34
November	0.24	0.13	197	201	0.11	0.23	153	159	0.08	0.10	12	4	0.03	0.01	176	186
December	0.12	0.16	72	169	0.18	0.21	160	147	0.11	0.12	355	357	0.05	0.05	248	205
Arithmetic mean	0.19				0.23				0.07				0.03			
Year	0.14	0.12	160	162	0.23	0.25	145	148	0.03	0.03	352	359	0.00	0.01	301	338
Winter	0.25	0.13	159	178	0.18	0.23	151	149	0.11	0.11	354	353	0.04	0.03	210	194
Equinox	0.08	0.14	156	162	0.28	0.28	150	151	0.03	0.03	336	345	0.03	0.04	16	6
Summer	0.11	0.09	165	139	0.23	0.22	135	143	0.06	0.06	169	159	0.01	0.02	314	334

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

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

61 ABERDEEN: h_b (height of barometer cistern above M.S.L.) = 26·0 m. 1944

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	millibars																	
1	08·6	02·0	04·2	10·6	94·9	00·6	94·1	*87·9*	*91·8*	17·4	13·6	16·2	13·8	99·7	10·5	15·7	05·6	10·7
2	02·0	94·2	99·1	02·3	91·3	98·0	02·3	91·2	95·8	13·6	98·7	05·5	00·1	*87·8*	*92·3*	12·8	04·8	09·5
3	08·2	01·3	03·8	01·1	*83·2*	90·9	11·3	02·4	07·1	98·7	95·5	*96·7*	11·2	90·9	03·9	12·9	99·6	08·7
4	27·2	08·2	21·1	21·3	97·7	09·0	19·5	09·4	13·1	06·6	96·4	02·1	10·7	90·6	00·4	99·6	84·9	91·0
5	25·9	06·2	16·4	28·4	21·3	25·9	29·4	19·5	24·7	15·8	06·6	11·2	11·2	90·7	00·0	94·2	*84·1*	89·0
6	09·9	04·2	07·4	25·0	04·2	14·9	36·6	29·4	33·4	19·0	15·8	17·8	22·3	11·2	17·7	07·8	93·4	97·8
7	16·5	08·7	13·1	04·2	98·2	00·5	*41·1*	36·6	38·8	18·1	12·3	14·7	22·3	21·0	21·6	09·9	07·8	08·7
8	10·2	91·2	97·2	15·3	02·5	10·7	40·9	36·8	*39·6*	12·3	03·8	08·9	21·8	20·4	21·2	07·8	00·4	03·7
9	02·7	93·5	97·4	15·0	00·7	06·1	36·8	22·9	28·8	05·6	00·3	01·8	21·7	17·5	19·4	00·4	95·0	96·7
10	19·1	02·7	12·2	22·0	05·8	14·3	23·2	12·3	19·5	08·6	05·6	07·4	17·6	12·5	15·5	00·6	95·4	97·5
11	19·0	08·5	12·9	22·2	18·0	20·3	13·0	08·8	11·0	07·1	05·8	06·5	14·7	12·7	13·7	00·4	94·9	97·4
12	08·5	05·2	06·2	19·3	17·3	18·4	10·2	89·9	01·0	09·7	06·7	08·5	14·5	10·9	12·6	07·5	98·4	03·3
13	06·2	96·1	01·3	19·0	09·3	13·9	01·9	89·8	95·5	09·6	06·3	07·8	22·9	11·4	15·9	07·3	00·5	03·0
14	23·6	06·0	15·3	21·5	10·6	18·9	10·3	01·9	05·7	06·5	01·0	03·3	*29·8*	22·9	*27·3*	13·8	00·6	06·2
15	*29·0*	23·3	*27·4*	20·2	07·8	14·4	11·3	06·4	09·3	01·0	99·1	99·9	29·5	20·1	26·3	15·2	02·1	11·0
16	28·5	26·5	27·3	22·9	08·2	16·3	13·6	07·1	10·4	04·0	98·7	00·4	24·4	18·2	20·4	19·7	01·4	08·4
17	27·6	17·6	21·2	30·6	22·9	28·0	16·9	13·6	15·5	11·5	04·0	09·0	24·4	20·5	22·6	24·1	19·7	22·9
18	18·7	08·0	12·2	31·2	30·2	30·7	14·1	97·5	08·1	11·4	08·6	10·6	20·5	17·4	18·6	24·2	21·7	22·5
19	15·1	12·5	14·8	33·2	29·5	30·5	15·9	01·6	09·4	08·6	*95·2*	00·7	17·6	14·1	15·3	27·0	23·7	24·9
20	14·4	99·2	06·7	*41·9*	33·2	*39·1*	16·6	10·2	13·3	11·7	96·6	01·3	16·1	14·6	15·5	*28·2*	26·6	*27·5*
21	04·5	91·7	01·4	41·3	36·5	38·8	18·5	16·4	17·6	15·2	08·4	11·9	17·1	13·5	14·6	27·9	21·8	25·3
22	91·7	78·6	84·1	36·5	27·0	31·6	17·2	13·5	15·4	20·2	15·2	18·9	19·5	16·9	18·5	21·9	17·2	18·9
23	97·9	76·3	82·5	28·8	25·8	27·1	17·8	12·7	14·4	18·0	14·3	16·3	20·9	19·0	20·0	18·7	16·3	17·9
24	00·7	62·0	86·5	30·3	28·2	29·5	22·3	17·8	20·4	18·3	08·8	11·9	19·5	09·3	15·0	16·3	02·5	09·0
25	99·1	*61·6*	*75·6*	28·2	08·3	19·4	23·8	21·2	22·7	*31·3*	18·1	26·6	10·0	03·9	06·9	02·5	99·8	00·9
26	05·8	94·9	01·0	08·3	05·1	06·3	24·7	19·8	22·0	31·0	27·1	*29·1*	10·3	07·7	08·9	00·3	94·5	98·9
27	06·5	94·6	00·5	05·7	02·6	03·9	24·6	19·5	22·2	27·1	21·5	23·8	24·8	09·3	18·3	94·5	85·9	*88·2*
28	13·8	06·5	11·4	05·7	94·7	02·1	19·5	12·7	15·5	25·4	23·7	24·6	25·3	23·2	24·4	96·7	87·3	89·7
29	15·0	11·0	12·3	94·7	87·6	*89·3*	12·7	06·4	08·7	23·9	19·1	21·1	24·8	22·6	23·7	05·9	96·7	02·8
30	16·1	13·5	15·2				06·6	04·7	05·6	19·1	12·8	16·0	24·5	23·1	23·6	07·6	05·6	06·8
31	12·4	10·7	12·0				16·7	05·0	10·5				23·5	15·7	20·4			
Mean	12·43	00·53	06·46	20·23	10·43	15·50	18·17	10·48	14·41	14·21	07·99	11·01	18·95	11·91	15·65	10·71	02·94	06·63

	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	07·4	05·8	06·6	22·7	21·6	22·1	07·5	*90·8*	99·7	20·1	11·4	14·4	19·5	10·4	15·7	09·3	86·5	98·5
2	07·7	06·0	07·0	21·1	20·3	21·3	10·5	07·3	08·3	20·0	03·9	11·5	10·4	98·0	04·8	93·8	85·8	90·5
3	06·0	03·6	04·6	23·0	20·7	21·5	10·6	01·5	07·7	13·6	03·5	06·6	98·0	92·9	94·9	95·7	79·6	88·9
4	03·6	98·1	99·8	*27·5*	23·0	*25·9*	01·5	94·7	98·1	25·0	13·6	21·5	92·9	*75·4*	85·6	86·0	77·4	82·3
5	05·4	00·1	02·9	27·3	22·5	24·6	98·3	93·3	*94·7*	25·7	21·4	23·3	93·9	77·8	85·0	89·0	85·6	87·5
6	10·1	05·4	08·7	22·5	18·6	20·4	08·5	98·3	04·6	*27·6*	23·4	*25·7*	94·3	80·7	90·8	88·1	75·6	81·0
7	09·9	02·6	06·1	18·6	11·4	15·1	08·0	04·4	06·4	23·4	16·2	19·1	97·5	80·3	86·9	75·9	*71·7*	*73·2*
8	07·2	03·5	05·7	11·4	05·6	07·5	08·9	02·2	04·5	17·2	14·9	16·2	97·9	95·0	96·7	89·4	75·9	83·7
9	03·5	94·0	97·7	05·6	02·2	04·2	21·0	08·9	15·4	16·0	08·9	12·4	16·1	96·3	07·0	94·3	88·9	91·9
10	02·2	*93·8*	*96·9*	02·4	00·5	01·3	25·5	21·0	23·2	08·9	00·1	04·2	23·1	16·1	21·4	93·1	79·7	86·3
11	10·2	02·2	06·9	08·0	00·0	03·3	29·0	25·4	27·5	00·1	82·1	92·9	*23·7*	19·7	*22·5*	88·5	76·7	79·6
12	11·2	09·8	10·7	15·6	07·8	11·3	*29·6*	27·3	*28·8*	93·9	75·9	86·1	19·7	08·5	13·2	14·5	88·5	02·6
13	10·4	06·0	07·5	21·6	15·3	17·6	27·3	19·2	23·7	93·6	81·6	89·4	08·5	97·3	02·7	19·0	14·5	17·6
14	06·0	02·6	04·1	23·0	16·8	21·0	19·2	09·9	14·7	92·4	78·1	83·4	04·4	97·4	00·6	17·3	07·2	12·4
15	08·9	00·9	02·7	16·8	07·0	11·5	09·9	02·5	06·3	94·5	92·3	93·7	10·1	03·8	06·8	07·2	01·1	03·6
16	18·6	08·9	14·3	07·0	01·4	02·9	19·4	02·4	09·6	93·4	87·1	89·9	16·8	10·1	14·4	01·1	87·5	96·4
17	21·0	18·5	*20·1*	01·7	98·3	01·0	21·5	19·4	20·4	87·2	*69·4*	*77·6*	14·1	89·7	00·7	87·5	73·8	78·9
18	20·6	18·1	19·3	98·5	93·4	96·3	22·4	21·3	21·9	80·1	69·8	*73·1*	96·5	89·1	93·6	05·4	86·2	96·8
19	18·5	17·2	17·7	09·3	98·5	03·9	21·3	15·1	18·2	05·3	80·1	96·2	94·4	89·1	90·7	16·7	05·4	11·5
20	17·4	16·1	16·8	15·9	09·3	13·3	16·9	12·7	14·1	03·9	92·7	96·8	05·9	89·7	94·3	17·5	16·0	16·9
21	16·5	12·0	14·1	21·4	15·8	19·0	18·2	13·5	16·8	14·9	00·3	10·3	15·6	05·9	12·2	24·9	15·6	22·1
22	14·6	11·4	12·6	21·1	17·7	19·8	13·5	01·2	06·5	15·0	03·4	11·9	07·3	83·2	93·1	*36·4*	22·9	29·4
23	17·3	14·6	16·1	17·8	07·1	12·8	04·1	01·2	02·7	11·2	98·3	03·3	87·0	81·1	*83·5*	*36·4*	31·1	*34·4*
24	18·1	16·8	17·5	13·8	10·1	12·3	11·1	00·4	05·5	19·9	11·2	17·6	88·8	86·5	87·8	31·3	25·3	27·9
25	17·5	11·2	15·0	24·7	12·4	18·5	10·9	95·9	03·6	21·2	18·0	19·9	96·2	88·6	91·0	25·3	17·3	20·5
26	11·2	00·5	05·1	24·6	14·2	21·3	01·5	96·6	98·9	19·3	98·9	09·2	11·2	96·2	02·9	24·0	10·9	18·4
27	05·9	99·3	01·8	14·2	03·6	06·9	09·7	95·5	01·1	01·2	94·5	98·8	15·5	00·4	10·9	19·2	10·1	12·5
28	08·8	05·9	07·9	03·8	99·9	01·6	12·1	04·1	10·1	04·4	93·1	97·4	00·7	88·5	94·1	29·3	19·0	26·6
29	10·5	07·2	08·5	03·6	99·9	02·3	08·7	97·0	00·9	16·2	04·5	09·3	08·0	00·7	04·2	28·1	18·1	22·1
30	17·5	10·5	13·8	99·9	92·3	95·8	11·8	08·6	10·4	23·6	16·2	21·3	12·6	07·8	10·6	26·5	18·1	21·1
31	*22·1*	17·5	20·0	92·3	*87·4*	*88·8*				22·7	17·1	19·2				31·0	26·4	29·5
Mean	11·80	07·10	09·30	14·09	08·21	11·13	13·95	06·39	10·14	10·05	99·42	04·91	06·02	95·21	00·62	09·73	99·30	04·66
									Annual	13·35	04·98	09·20						

PRESSURE AT STATION LEVEL

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

62 ABERDEEN: h_b = 26 m. 1944

	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.	06·63	06·52	06·32	06·26	06·05	05·97	05·86	*05·85*	05·99	06·22	06·57	06·65	06·52	06·38	06·33	06·47	06·61	06·69	06·78	06·81	06·92	*06·97*	06·92	06·81	06·70	06·46
Feb.	*16·19*	16·07	15·91	15·62	15·37	15·19	15·11	*15·11*	15·31	15·48	15·57	15·57	15·39	15·25	15·12	15·21	15·31	15·47	15·67	15·82	15·78	15·73	15·64	15·50	15·41	15·50
Mar.	13·97	14·05	13·94	13·84	*13·80*	13·89	13·97	14·12	14·35	14·43	14·57	14·65	14·63	14·57	14·47	14·43	14·34	14·41	14·55	14·74	14·85	14·88	14·95	*14·98*	14·89	14·41
Apr.	*11·35*	11·32	11·16	11·02	10·89	10·94	10·97	11·03	11·12	11·14	11·22	11·11	10·98	10·95	10·84	10·69	*10·63*	*10·63*	10·64	10·90	11·10	11·26	11·25	11·25	11·24	11·01
May	15·67	15·55	15·45	15·42	*15·29*	15·37	15·48	15·55	15·69	15·75	15·80	15·83	15·85	15·89	15·86	15·75	15·59	15·48	15·43	15·52	15·67	15·88	*15·89*	15·88	15·76	15·65
June	*07·07*	06·91	06·69	06·56	06·48	06·46	06·53	06·61	06·67	06·65	06·64	06·66	06·57	06·52	06·46	06·38	*06·36*	06·42	06·42	06·57	06·79	06·95	06·95	06·89	06·77	06·63
July	09·26	09·16	09·04	08·90	*08·84*	08·87	08·98	09·11	09·21	09·28	09·32	09·38	09·40	09·36	09·37	09·33	09·28	09·25	09·26	09·37	09·54	09·75	*09·84*	09·82	09·75	09·30
Aug.	*11·90*	11·65	11·42	11·13	11·01	10·98	11·00	11·05	11·12	11·28	11·26	11·32	11·35	11·26	11·14	10·99	10·87	*10·79*	10·82	10·90	11·06	11·15	11·11	11·02	10·89	11·13
Sept.	09·92	09·84	09·72	09·61	*09·51*	09·58	09·80	09·94	10·11	10·24	10·28	10·26	10·24	10·12	10·06	09·94	09·90	10·01	10·29	10·58	10·74	*10·81*	10·79	10·78	10·62	10·14
Oct.	04·96	04·87	04·65	04·38	*04·24*	04·26	04·43	04·57	04·82	05·04	05·19	05·19	05·12	04·96	04·83	04·75	04·71	04·91	05·20	05·28	05·31	*05·36*	05·32	05·30	05·21	04·91
Nov.	00·79	00·70	00·59	00·52	00·39	*00·33*	00·34	00·43	00·56	00·66	00·81	*00·82*	00·73	00·67	00·59	00·60	00·76	00·79	00·80	00·77	00·69	00·66	00·61	00·54	00·45	00·62
Dec.	04·51	04·47	04·49	04·50	04·43	*04·30*	04·34	04·44	04·61	04·76	04·88	04·81	04·57	04·45	04·35	04·45	04·51	04·64	04·75	04·87	05·04	*05·14*	05·06	05·08	05·13	04·66
Annual	09·35	09·26	09·11	08·98	08·87	*08·85*	08·90	08·98	09·13	09·24	09·34	09·35	09·28	09·20	09·12	09·08	09·07	09·12	09·22	09·34	09·46	*09·54*	09·53	09·49	09·40	09·20

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.

63 ABERDEEN: h_b = 26 m. 1944

	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.	09·85	09·74	09·54	09·48	09·28	09·20	09·09	*09·07*	09·22	09·44	09·79	09·86	09·74	09·59	09·54	09·67	09·82	09·91	10·00	10·03	10·14	*10·20*	10·15	10·03	09·92	09·69
Feb.	*19·46*	19·34	19·19	18·89	18·65	18·47	18·39	18·38	18·59	18·75	18·84	18·83	18·65	18·50	*18·36*	18·46	18·56	18·73	18·93	19·09	19·05	19·00	18·92	18·77	18·68	18·77
Mar.	17·24	17·31	17·20	17·10	*17·07*	17·16	17·24	17·39	17·62	17·69	17·82	17·89	17·87	17·80	17·71	17·66	17·57	17·65	17·79	17·99	18·11	18·14	18·21	*18·24*	18·16	17·66
Apr.	*14·56*	14·53	14·38	14·24	14·11	14·16	14·19	14·24	14·33	14·34	14·41	14·30	14·16	14·13	14·02	13·87	*13·81*	13·82	13·83	14·09	14·30	14·46	14·45	14·46	14·45	14·21
May	18·89	18·77	18·67	18·64	*18·51*	18·60	18·70	18·76	18·90	18·94	18·99	19·02	19·04	19·07	19·05	18·94	18·78	18·67	18·62	18·72	18·88	19·08	*19·10*	19·10	18·98	18·85
June	*10·24*	10·08	09·87	09·73	09·65	09·63	09·69	09·77	09·82	09·79	09·78	09·80	09·71	09·65	09·59	09·51	*09·49*	09·55	09·56	09·71	09·94	10·11	10·11	10·06	09·94	09·78
July	12·41	12·31	12·19	12·05	*11·99*	12·02	12·13	12·25	12·35	12·42	12·45	12·51	12·53	12·49	12·50	12·45	12·41	12·38	12·39	12·50	12·67	12·89	*12·98*	12·96	12·90	12·44
Aug.	*15·05*	14·80	14·57	14·28	14·16	14·14	14·15	14·20	14·26	14·41	14·39	14·44	14·46	14·38	14·25	14·11	13·99	*13·91*	13·94	14·03	14·20	14·29	14·25	14·17	14·04	14·26
Sept.	13·10	13·02	12·90	12·80	*12·70*	12·77	12·99	13·13	13·28	13·41	13·43	13·41	13·39	13·27	13·21	13·09	13·05	13·17	13·45	13·75	13·91	*13·99*	13·98	13·96	13·80	13·31
Oct.	08·15	08·05	07·83	07·57	*07·43*	07·45	07·62	07·76	08·00	08·22	08·36	08·36	08·28	08·12	07·99	07·91	07·88	08·08	08·38	08·46	08·50	*08·54*	08·51	08·48	08·40	08·09
Nov.	04·01	03·92	03·81	03·73	03·61	*03·55*	03·56	03·65	03·78	03·88	04·02	*04·03*	03·93	03·87	03·78	03·80	03·97	04·00	04·01	03·98	03·90	03·87	03·82	03·75	03·67	03·84
Dec.	07·75	07·70	07·73	07·73	07·66	*07·54*	07·58	07·67	07·85	08·00	08·11	08·03	07·79	07·67	07·56	07·68	07·73	07·87	07·98	08·10	08·27	*08·37*	08·30	08·31	08·37	07·89
Annual	12·56	12·47	12·32	12·19	12·08	*12·06*	12·11	12·18	12·33	12·44	12·53	12·54	12·46	12·38	12·30	12·26	12·25	12·31	12·41	12·54	12·65	*12·74*	12·73	12·69	12·61	12·40

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.

64 ABERDEEN: North-wall screen on tower: h_t = 12·5 m. 1944

	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.	78·03	77·97	77·90	77·83	77·87	77·70	*77·61*	77·62	77·67	77·80	78·05	78·58	79·01	*79·37*	79·30	78·96	78·61	78·39	78·25	78·31	78·26	78·06	77·95	78·05	77·97	78·21
Feb.	76·47	76·27	76·24	76·20	76·09	76·07	76·08	*76·04*	76·13	76·39	76·87	77·34	77·90	78·24	*78·44*	78·13	77·94	77·54	77·17	76·98	76·77	76·63	76·56	76·35	76·31	76·87
Mar.	76·90	76·65	76·66	76·51	76·38	*76·26*	76·32	76·40	76·77	77·56	78·34	78·91	79·39	79·49	*79·62*	79·45	79·28	78·93	78·43	78·05	77·69	77·50	77·35	77·11	76·81	77·75
Apr.	80·06	79·96	79·85	79·71	*79·58*	79·58	79·87	80·37	80·94	81·77	82·22	82·73	83·21	*83·40*	83·29	83·16	83·01	82·77	82·44	81·86	81·42	81·12	80·96	80·63	80·46	81·42
May	81·37	81·06	80·71	80·59	*80·45*	80·54	81·04	81·87	82·58	82·95	83·45	83·65	83·85	*83·87*	83·74	83·63	83·75	83·71	83·50	83·08	82·51	82·08	81·75	81·42	81·24	82·38
June	83·05	82·83	82·70	*82·65*	82·66	83·11	83·70	84·23	84·61	85·13	85·47	85·71	85·89	86·21	86·29	*86·33*	86·03	85·80	85·48	85·08	84·53	84·03	83·66	83·40	83·15	84·53
July	85·58	85·46	85·26	85·05	*84·92*	85·06	85·35	85·90	86·40	86·74	87·00	87·29	87·71	*87·97*	87·78	87·70	87·48	87·46	87·05	86·80	86·46	86·12	85·94	85·87	85·69	86·43
Aug.	86·07	85·76	85·61	85·38	85·28	*85·23*	85·52	86·26	87·15	87·76	88·25	88·58	88·76	89·03	89·17	*89·18*	88·87	88·52	88·21	87·58	87·12	86·73	86·39	86·22	85·93	87·19
Sept.	82·57	82·52	82·43	82·24	82·12	*81·92*	81·94	82·43	83·28	84·35	85·00	85·65	85·81	86·03	*86·18*	86·01	85·87	85·36	84·92	84·21	83·70	83·12	82·71	82·49	82·49	83·87
Oct.	81·01	80·94	80·84	80·96	80·80	*80·69*	80·70	80·71	81·01	81·52	82·21	82·52	82·94	83·18	*83·24*	83·11	82·92	82·48	81·92	81·54	81·36	81·22	81·10	80·95	80·95	81·66
Nov.	77·24	77·05	77·06	77·05	76·86	76·77	*76·75*	76·83	76·82	76·96	77·58	78·15	78·61	78·83	*78·90*	78·78	78·28	77·92	77·81	77·74	77·63	77·50	77·51	77·53	77·32	77·59
Dec.	77·03	76·87	76·80	76·77	76·61	76·63	*76·47*	76·68	76·67	76·87	77·07	77·52	77·71	77·89	*77·95*	77·78	77·44	77·25	77·17	77·02	76·94	76·80	76·75	76·82	76·75	77·06
Annual	80·45	80·27	80·17	80·08	79·97	*79·96*	80·11	80·45	80·84	81·32	81·79	82·22	82·57	82·79	*82·82*	82·69	82·46	82·18	81·86	81·52	81·27	80·91	80·73	80·56	80·44	81·25

The initial 2 or 3 of the readings is omitted, i.e. 275·00 degrees Absolute is printed 75·00

Add 0·16° to obtain temperature in degrees Kelvin where $T(°K.) = t(°C.) + 273·16$

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 $T(°K.) = t(°C.) + 273·16$

65 ABERDEEN: North-wall screen on tower: h_t (height of thermometer bulb above ground) = 12·5 m. 1944

	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	85·0	82·9	*83·8*	*85·9*	80·4	*82·7*	76·3	70·6	72·4	78·4	*72·0*	*75·8*	87·1	83·5	85·1	82·0	80·7	*81·3*
2	*86·1*	78·1	82·3	85·8	79·6	81·9	76·4	71·0	73·8	77·7	76·2	77·0	91·0	78·0	86·1	83·2	80·9	82·0
3	78·5	74·0	75·9	81·0	72·6	77·4	74·7	*70·1*	*72·4*	79·0	77·7	78·4	81·6	74·5	78·4	85·6	80·1	83·2
4	76·1	73·7	74·9	76·5	70·7	74·1	76·6	70·4	73·3	78·8	77·8	78·3	79·7	*74·2*	*77·7*	88·5	82·0	85·1
5	83·4	74·4	78·9	75·4	71·7	74·3	79·0	74·3	76·6	79·2	77·9	78·4	80·8	76·2	78·8	87·3	82·1	84·5
6	83·6	77·9	80·9	82·3	71·0	76·3	80·3	75·2	77·9	83·1	77·8	80·0	80·9	76·1	78·7	85·9	81·7	83·3
7	78·6	74·3	76·0	84·0	75·5	79·2	79·4	73·5	76·2	83·1	77·9	80·3	84·7	77·0	81·3	88·0	80·5	83·6
8	79·6	74·2	75·9	77·8	74·8	76·2	78·2	70·7	74·4	80·1	78·1	79·1	87·5	80·9	84·4	86·7	81·8	83·6
9	76·6	72·5	74·1	80·5	75·1	77·7	80·5	72·0	76·7	84·2	78·8	80·9	86·9	82·1	84·1	84·9	81·9	82·9
10	73·0	69·7	*72·1*	78·8	73·8	76·4	82·0	76·7	79·6	86·7	80·6	83·1	89·0	79·8	84·9	87·6	81·9	84·6
11	76·0	*68·1*	72·9	78·2	75·1	76·7	80·9	78·2	79·8	86·1	79·1	81·9	88·5	80·7	84·4	91·2	82·7	85·5
12	80·1	73·4	77·2	77·7	74·2	76·2	83·5	76·8	81·2	84·4	76·3	80·8	89·1	82·4	85·7	90·3	82·0	86·3
13	81·0	75·8	79·0	78·8	76·7	78·0	77·8	73·9	85·4	83·6	78·6	80·6	84·8	77·6	82·7	86·5	82·6	84·2
14	83·7	76·4	80·3	79·6	75·9	77·7	76·9	73·7	74·8	81·7	79·1	80·2	82·9	77·0	79·5	87·0	84·3	84·3
15	82·3	76·6	78·6	79·6	75·7	78·0	81·1	72·9	76·8	85·8	78·8	80·9	80·1	76·0	78·2	88·1	*79·8*	84·3
16	80·3	76·2	78·5	80·9	75·5	78·3	82·8	77·8	80·3	82·9	79·9	81·1	81·3	76·2	79·1	88·2	80·8	85·0
17	82·0	77·6	79·9	78·8	74·8	76·4	83·4	77·4	80·8	80·4	78·6	79·5	82·1	77·4	80·0	86·7	80·7	83·6
18	82·2	75·8	79·7	77·6	75·0	76·3	84·0	78·6	81·5	85·5	78·5	81·6	81·0	79·2	80·4	88·7	83·8	85·9
19	80·0	74·4	77·5	77·5	74·4	75·9	80·4	75·8	77·6	83·6	80·9	81·7	81·9	78·7	80·1	90·1	83·7	*87·0*
20	80·2	75·0	78·1	78·5	74·2	76·1	83·2	75·9	79·3	87·4	78·9	82·9	82·2	78·4	80·3	88·0	83·6	85·3
21	80·1	75·1	77·4	80·0	74·8	77·4	78·9	77·1	77·7	89·6	81·0	83·2	83·3	76·9	80·3	*92·5*	83·2	86·7
22	82·1	77·3	80·2	79·1	76·0	77·9	79·0	76·1	77·5	87·9	80·8	83·8	83·8	75·9	80·0	87·3	83·6	85·2
23	78·4	73·9	75·9	79·7	78·0	78·6	85·3	77·6	81·4	89·3	80·6	85·3	85·1	80·1	82·6	88·1	82·5	84·4
24	79·2	72·4	75·8	79·9	77·2	78·5	82·7	79·5	81·0	86·9	79·8	83·5	87·1	82·0	84·8	90·1	81·0	86·2
25	79·2	74·4	76·3	79·6	76·8	78·1	*86·0*	79·8	*82·6*	84·7	79·6	82·1	89·2	83·9	86·3	87·0	83·0	84·5
26	81·9	74·6	76·8	77·4	70·8	73·6	85·1	79·5	82·2	88·4	80·7	84·7	*92·2*	82·3	86·2	85·4	80·0	83·6
27	82·2	79·3	80·4	73·8	69·2	*71·3*	83·6	79·2	81·1	88·3	80·3	84·3	90·1	86·0	*87·9*	88·7	82·8	85·2
28	84·0	79·1	80·7	74·5	*69·0*	71·6	81·1	75·8	79·2	85·0	79·6	82·0	89·5	83·0	86·4	87·6	82·2	84·3
29	84·7	78·9	81·9	80·0	72·9	76·5	79·0	73·9	75·8	89·3	80·5	84·6	88·9	83·1	85·3	88·9	81·8	85·6
30	85·9	78·6	81·1				78·9	73·8	75·7	*90·3*	83·8	*86·7*	84·0	81·8	82·5	84·9	83·8	84·3
31	84·4	79·9	81·5				77·7	73·3	75·1				82·7	81·2	81·7			
Mean	81·0	75·6	78·2	79·3	74·6	76·9	80·5	75·2	77·7	84·4	79·0	81·4	85·1	79·4	82·4	87·5	82·1	84·5

	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	84·8	83·7	*84·2*	87·8	85·8	86·9	88·0	81·3	85·1	81·7	78·0	79·7	80·2	77·9	79·2	*83·6*	79·2	*81·6*
2	86·4	83·8	84·6	88·0	84·9	86·2	85·0	80·8	83·0	84·7	75·8	80·0	82·0	79·0	80·4	79·2	74·7	76·4
3	87·6	84·5	85·3	88·9	83·9	86·3	86·1	79·0	82·8	83·2	79·7	80·9	81·7	75·2	79·4	77·7	74·6	76·2
4	90·6	84·7	86·8	91·9	83·0	87·4	84·0	81·8	82·7	83·4	79·3	81·7	*84·7*	74·2	79·4	79·0	74·8	77·4
5	89·5	86·0	87·3	89·4	84·8	86·5	86·3	82·3	84·4	84·9	79·8	82·3	83·4	76·1	79·0	77·3	73·1	75·3
6	91·7	84·1	87·4	88·5	84·9	86·2	85·1	77·9	82·7	86·1	81·8	84·0	80·0	76·0	77·7	77·0	72·8	74·7
7	87·9	85·9	86·7	89·4	85·5	87·2	85·0	*75·1*	*80·5*	85·7	82·0	83·9	78·7	74·6	76·7	75·5	71·8	*73·6*
8	91·4	86·0	*88·4*	*94·9*	85·9	88·5	84·7	77·6	80·9	84·5	81·4	82·9	78·1	74·4	75·9	76·2	72·7	74·6
9	90·7	85·5	87·3	91·9	86·0	88·3	85·6	79·0	82·1	*86·4*	79·7	83·3	76·1	73·9	75·0	78·2	74·4	76·3
10	89·0	85·8	87·2	93·3	86·1	90·2	87·1	76·5	82·4	85·0	83·3	84·2	76·9	75·0	75·8	75·8	72·6	73·7
11	89·8	84·9	86·9	91·5	85·7	89·5	87·0	79·2	83·0	85·3	83·5	*84·4*	79·8	73·0	76·1	79·3	74·9	76·7
12	88·9	83·9	85·9	92·3	84·0	88·1	86·8	77·5	83·1	85·7	79·6	82·9	75·0	70·1	*73·1*	78·8	73·6	76·4
13	86·0	84·0	84·9	91·3	82·4	87·4	87·5	82·8	85·7	83·7	77·9	81·2	80·4	70·1	74·5	78·3	*71·4*	74·8
14	90·8	84·9	87·2	88·8	80·9	85·7	87·5	85·4	86·2	84·4	78·6	82·4	80·6	77·0	79·6	79·5	78·2	78·9
15	91·5	84·4	87·1	90·9	86·8	88·4	87·3	85·3	86·2	84·0	77·0	80·5	79·7	76·5	78·5	79·1	76·9	78·4
16	90·4	*82·0*	86·5	92·9	85·7	89·4	87·1	81·6	85·5	84·1	80·8	83·2	80·3	77·9	79·4	80·3	78·1	79·3
17	89·1	84·2	86·9	92·8	85·2	89·5	*91·9*	81·0	86·2	83·7	77·6	81·7	80·8	78·3	79·7	82·3	79·8	81·0
18	88·9	82·2	86·1	94·0	87·2	*90·8*	91·3	83·5	*87·2*	84·4	80·2	81·8	81·6	77·0	79·3	79·9	75·8	78·4
19	87·7	85·0	86·2	87·4	83·2	86·0	87·2	84·5	85·9	83·1	76·2	80·9	79·7	76·8	78·4	79·9	75·9	78·2
20	87·2	84·6	85·7	86·5	82·4	84·2	88·0	83·9	86·0	83·2	76·0	81·7	79·7	76·4	77·5	82·1	79·6	80·9
21	87·3	84·1	85·7	85·8	82·2	83·9	88·6	82·9	85·5	84·5	81·2	83·2	79·3	74·3	76·3	81·4	77·8	79·1
22	87·5	83·9	85·7	86·6	*78·0*	*83·1*	85·6	82·6	84·9	84·2	81·8	83·2	81·1	76·0	78·3	83·4	75·5	80·1
23	87·3	84·0	85·6	87·7	82·2	86·1	86·8	80·0	83·3	83·7	79·3	81·5	83·2	77·8	*80·6*	78·0	73·9	75·9
24	86·5	83·8	85·1	94·1	85·9	89·6	84·7	79·3	82·0	82·9	78·2	79·9	78·5	74·7	76·9	80·4	73·9	77·4
25	87·2	85·0	86·1	91·7	86·8	88·5	87·0	77·6	81·6	82·0	79·3	80·9	76·3	73·6	74·9	81·9	76·9	79·5
26	87·3	85·4	86·4	88·9	85·6	87·3	86·8	80·0	83·0	83·6	79·8	82·4	75·6	71·9	73·7	79·9	74·9	77·0
27	*92·9*	83·8	87·5	90·9	85·7	87·8	84·4	79·9	81·5	80·9	*75·3*	*78·3*	78·2	*69·8*	74·1	79·7	74·2	77·1
28	90·5	86·1	88·1	87·6	84·3	85·5	85·5	79·3	83·1	81·5	77·6	79·0	82·9	76·3	79·5	75·2	72·8	74·0
29	88·9	85·8	86·9	89·9	83·9	86·8	91·2	82·2	86·2	82·0	76·0	79·7	80·8	76·8	78·4	79·1	72·7	75·6
30	88·2	86·0	86·9	89·1	84·0	86·4	87·6	80·7	83·3	82·5	*75·3*	79·3	82·0	76·6	80·3	77·9	74·3	76·2
31	90·8	83·9	87·2	88·5	83·0	85·1				82·1	77·9	80·4				75·1	71·5	73·9
Mean	88·8	84·6	86·4	90·1	84·4	87·2	86·9	80·7	83·9	83·8	79·0	81·7	79·9	75·2	77·6	79·1	74·9	77·1
									Annual	83·9	78·7	81·3						

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

66 ABERDEEN: North-wall screen on tower: h_t = 12·5 m. 1944

	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	66·9	8·7	72·3	*8·7*	68·8	*4·0*	68·3	*5·1*	69·5	9·8	91·7	10·0	98·8	13·1	*92·9*	14·7	77·7	11·0	76·4	7·5	76·0	7·2	84·6	9·5
2	62·9	7·4	76·1	8·7	71·2	4·6	85·4	6·9	*55·0*	8·3	*95·7*	11·0	98·5	13·5	88·5	13·4	86·4	10·6	76·6	7·7	*92·6*	*9·5*	68·0	5·3
3	70·4	5·3	73·3	6·1	85·6	5·0	*97·2*	8·7	69·8	6·3	90·9	11·3	*98·9*	14·2	82·8	12·7	71·0	8·6	81·0	8·6	79·4	7·6	78·6	6·0
4	81·7	5·7	72·1	4·8	82·1	5·1	94·3	8·4	80·1	6·8	87·2	12·3	95·2	15·0	86·9	14·3	81·2	9·8	83·6	9·4	81·2	7·8	*64·2*	5·4
5	72·7	6·8	68·1	4·6	80·4	6·4	82·4	7·4	77·5	7·2	63·6	*8·6*	84·5	13·8	90·3	14·0	88·7	11·9	87·2	10·2	67·8	6·3	66·4	4·8
6	72·6	7·7	80·9	6·3	76·6	6·6	77·0	7·7	69·0	6·3	77·2	9·7	78·4	12·9	92·3	14·0	76·9	9·3	*94·4*	12·4	70·7	6·0	78·8	5·4
7	70·4	5·3	*66·6*	6·3	84·7	6·5	83·5	8·5	71·7	7·8	76·7	9·8	90·5	14·2	88·6	14·4	78·5	8·1	92·8	12·1	74·6	5·9	86·0	5·5
8	83·7	6·3	79·0	6·1	87·0	5·9	87·2	8·2	69·2	9·3	80·4	10·3	85·6	15·0	88·6	*15·6*	77·7	8·3	90·1	11·0	68·9	5·2	89·7	6·2
9	65·3	4·3	69·7	6·0	81·1	6·5	89·2	9·5	78·6	10·4	89·5	10·9	87·9	14·3	77·2	13·4	73·6	8·5	86·8	10·9	80·8	5·7	83·5	6·5
10	*61·8*	*3·5*	76·0	5·9	71·1	6·9	71·8	8·9	67·8	9·4	81·5	11·1	87·3	14·1	75·6	14·8	66·8	7·9	84·4	11·2	74·7	5·6	78·2	5·0
11	75·4	4·6	76·3	6·1	64·4	6·4	81·4	9·3	80·6	10·9	72·7	10·5	71·7	11·4	78·5	14·7	69·9	8·6	93·1	*12·5*	84·7	6·5	*92·0*	7·3
12	*92·7*	7·6	78·9	6·1	73·1	8·0	81·4	8·6	69·6	10·2	*56·9*	8·7	*65·8*	*9·8*	64·3	11·0	82·3	10·2	75·4	9·2	90·7	5·6	90·5	7·1
13	90·0	8·4	*91·5*	8·0	71·4	5·2	86·8	9·1	67·7	8·2	78·4	10·4	81·0	11·3	*63·2*	10·4	89·4	13·1	83·8	9·1	89·5	6·1	89·7	6·2
14	69·9	7·2	79·4	6·8	72·7	5·1	93·9	9·5	68·6	6·6	71·3	9·5	86·0	13·9	72·4	10·6	92·4	14·0	80·6	9·5	*65·4*	6·4	79·0	7·3
15	79·1	7·2	86·7	7·6	63·7	5·1	93·6	10·0	66·9	*5·9*	75·0	10·0	78·3	12·6	79·4	13·9	*97·9*	*14·8*	*74·6*	7·7	73·2	6·6	82·2	7·4
16	85·4	7·7	74·3	6·6	86·1	8·8	91·0	9·8	80·3	7·6	77·8	10·9	79·1	12·2	82·2	15·3	79·4	11·5	81·7	10·2	75·4	7·3	81·2	7·8
17	86·5	8·6	86·6	6·8	72·7	7·7	72·2	7·0	84·2	8·4	76·0	9·7	87·8	14·0	78·7	14·8	77·3	11·7	89·1	10·0	82·9	8·1	85·8	9·2
18	80·2	7·9	75·8	5·9	71·2	7·9	81·9	9·2	*95·6*	9·8	71·8	10·7	83·4	12·6	75·1	15·3	81·5	13·2	76·3	8·6	83·4	8·0	88·6	7·9
19	73·0	6·2	72·0	5·4	*62·4*	5·3	87·1	9·8	89·2	9·0	68·5	10·9	81·9	12·4	86·1	12·9	89·4	13·3	79·4	8·5	90·3	8·1	86·4	7·6
20	79·1	7·0	85·5	6·5	77·0	7·4	61·5	7·5	67·4	6·9	80·9	11·6	87·5	12·9	67·1	8·9	92·6	13·9	84·8	9·5	82·4	6·9	90·5	*9·6*
21	72·4	6·1	76·2	6·4	76·8	6·6	67·3	8·4	63·2	6·5	69·5	10·9	83·5	12·3	64·8	*8·4*	90·7	13·1	93·4	11·6	79·4	6·2	80·9	7·6
22	69·3	7·0	78·7	6·8	75·0	6·3	*52·9*	6·9	67·4	6·8	82·3	11·7	80·1	11·8	70·8	8·7	93·4	13·0	93·4	11·6	88·1	7·8	88·3	8·9
23	69·3	5·2	80·6	7·3	79·0	8·7	77·8	*11·1*	71·6	8·6	68·5	9·2	77·8	11·3	90·6	13·7	75·1	9·4	79·2	8·8	75·4	7·9	87·6	6·6
24	76·0	5·7	77·7	7·0	79·7	8·6	57·9	7·4	71·6	9·9	78·7	11·9	82·7	11·7	82·5	15·6	84·8	9·7	79·1	7·9	79·4	6·4	82·5	6·9
25	81·3	6·3	76·6	6·7	90·9	*10·9*	66·1	7·6	62·2	9·5	77·7	10·5	90·6	13·7	78·1	13·8	79·4	8·9	84·1	9·0	80·9	5·7	82·1	8·0
26	78·4	6·3	83·9	5·4	91·0	10·6	63·1	8·7	82·1	12·5	87·3	11·2	96·3	14·8	90·0	14·7	*62·0*	*7·6*	88·4	10·4	78·4	*5·0*	76·0	6·2
27	64·1	6·6	79·3	4·2	*91·4*	9·9	56·9	7·6	64·0	10·8	86·9	*12·3*	91·1	15·1	84·1	14·2	71·0	7·9	76·7	*6·8*	82·8	5·4	73·2	6·0
28	75·7	8·0	70·6	*3·9*	89·6	8·5	60·7	7·0	82·3	12·7	81·2	10·9	79·5	13·6	81·0	11·7	71·5	8·8	83·4	7·8	80·6	7·8	73·4	4·8
29	75·9	8·7	71·4	5·6	80·7	6·0	72·4	9·9	89·7	*12·8*	74·3	10·8	95·4	15·1	70·5	11·1	73·3	11·1	85·8	8·4	81·5	7·3	78·4	5·8
30	83·7	*9·0*			75·8	5·6	54·2	8·5	95·2	11·3	92·0	12·3	97·1	*15·4*	74·8	11·5	64·6	8·1	85·1	8·1	82·3	8·4	78·7	6·1
31	71·9	8·0			75·3	5·4			90·3	10·1			93·1	15·1	77·0	10·9			85·3	8·8			69·3	*4·5*
Mean*	75·4	6·8	77·1	6·3	77·7	6·8	76·5	8·4	74·8	8·9	78·7	10·7	86·3	13·3	79·8	13·0	79·9	10·5	84·1	9·5	79·8	6·8	81·1	6·7

* Mean of the column

RELATIVE HUMIDITY

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

67 ABERDEEN: h_t = 12·5 m. 1944

	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*
	per cent.																									
Jan.	74·3	75·1	75·8	76·5	75·9	75·9	76·5	76·1	76·9	75·3	75·9	73·3	72·9	*71·8*	72·4	73·8	74·4	76·3	77·5	77·2	76·9	*77·8*	76·9	74·7	74·3	75·4
Feb.	78·4	80·2	79·3	79·9	80·9	80·4	79·9	81·5	81·2	*81·8*	80·0	77·9	76·1	73·9	71·0	71·6	*70·9*	72·1	72·9	74·0	75·3	77·1	76·7	77·6	78·1	77·1
Mar.	82·1	83·2	81·5	82·2	82·9	*84·0*	82·2	82·7	81·3	77·1	74·9	72·7	71·5	70·2	*69·0*	70·0	70·1	72·2	76·0	77·5	78·7	79·9	81·1	81·5	82·5	77·7
Apr.	81·5	81·6	82·0	83·4	83·2	*83·7*	83·2	81·2	79·3	75·6	74·1	71·6	69·7	*67·7*	68·8	68·9	69·4	71·3	71·8	74·3	76·9	78·9	79·1	80·1	80·9	76·5
May	78·5	80·7	*82·6*	82·3	82·3	81·2	80·2	76·6	73·3	71·2	*67·9*	68·2	68·6	68·6	69·5	69·2	69·8	69·6	70·3	72·6	75·5	77·9	78·4	79·1	79·5	74·8
June	84·1	85·6	85·7	85·6	*86·0*	84·2	81·8	79·9	77·8	74·4	73·3	72·8	73·1	72·8	73·4	*72·1*	73·8	74·0	74·9	76·5	79·2	81·5	83·4	83·5	84·2	78·7
July	90·5	90·7	91·0	91·7	*92·4*	91·9	90·9	88·9	86·3	85·9	84·1	82·8	80·4	*79·1*	80·3	80·7	81·9	82·0	83·5	85·2	86·1	87·4	88·5	89·4	90·5	86·3
Aug.	84·4	85·7	85·9	87·1	87·3	*87·5*	86·9	84·7	81·4	78·1	75·0	73·5	73·5	71·8	*71·6*	72·2	72·9	74·1	76·6	79·0	80·2	81·5	82·7	82·8	83·9	79·8
Sept.	85·9	*86·7*	85·6	85·6	85·9	86·2	86·3	84·7	81·6	78·1	75·3	72·1	70·9	69·9	*69·7*	71·5	71·7	74·4	77·8	80·8	82·5	83·8	84·5	85·6	85·7	79·9
Oct.	86·0	86·1	85·5	85·7	86·5	87·2	*87·4*	86·9	85·7	84·4	82·7	81·9	79·9	78·5	*77·7*	78·2	79·7	81·9	84·2	85·1	86·0	86·5	87·0	87·0	86·1	84·1
Nov.	82·5	82·3	82·6	83·0	83·1	82·8	82·1	81·0	79·8	80·1	76·5	74·9	73·6	74·2	*73·4*	74·5	77·1	80·2	79·5	80·3	80·9	83·7	*83·9*	82·6	82·8	79·8
Dec.	80·9	81·6	81·9	81·3	81·9	81·8	82·5	81·6	81·4	82·1	81·8	80·4	79·3	78·9	*78·2*	79·5	80·6	81·3	81·5	*82·5*	82·2	82·1	81·2	80·6	80·4	81·1
Annual	82·4	83·3	83·3	83·7	*84·0*	83·9	83·3	82·2	80·5	78·7	76·9	75·2	74·1	73·1	*72·9*	73·5	74·4	75·8	77·2	78·8	80·0	81·5	81·9	82·0	82·4	79·3

VAPOUR PRESSURE

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

68 ABERDEEN: h_t = 12·5 m. 1944

	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.	*6·4*	6·5	6·6	6·6	6·6	6·5	6·5	6·5	6·6	6·5	6·6	6·7	6·8	6·9	*6·9*	6·9	6·8	6·8	6·9	6·9	6·8	6·8	6·7	6·5	6·5	6·7
Feb.	6·1	6·2	6·1	6·1	6·2	6·1	6·1	6·2	6·2	6·4	6·4	6·5	*6·6*	6·6	6·4	6·3	6·2	6·1	*6·0*	6·0	6·0	6·1	6·1	6·0	6·1	6·2
Mar.	6·6	6·6	6·5	6·5	6·5	6·5	*6·4*	6·4	6·5	6·5	6·7	6·8	*6·9*	6·8	6·7	6·8	6·7	6·7	6·8	6·8	6·7	6·7	6·8	6·7	6·6	6·7
Apr.	8·1	8·2	8·1	8·2	*8·1*	8·2	8·3	8·3	8·5	8·6	8·6	8·6	*8·7*	8·5	8·6	8·6	8·5	8·6	8·5	8·5	8·5	8·5	8·5	8·4	8·4	8·5
May	8·6	8·7	8·7	8·6	8·5	*8·4*	8·6	8·7	8·7	8·7	8·6	8·7	8·9	8·9	9·0	8·9	*9·0*	9·0	8·9	9·0	9·0	9·0	8·8	8·7	8·7	8·8
June	10·3	10·4	10·3	*10·3*	10·3	10·4	10·5	10·7	10·6	10·5	10·6	10·7	10·9	11·1	*11·2*	11·0	11·1	10·9	10·8	10·8	10·8	10·7	10·7	10·5	10·4	10·7
July	13·1	13·1	13·0	12·9	*12·9*	12·9	13·0	13·2	13·3	13·5	13·4	13·5	13·5	13·5	13·5	13·5	*13·5*	13·5	13·4	13·4	13·3	13·2	13·2	13·3	13·3	13·3
Aug.	12·5	12·6	12·5	12·5	12·5	*12·5*	12·6	12·9	13·1	13·1	13·0	13·0	13·2	13·1	13·2	*13·3*	13·1	13·1	13·2	13·1	12·9	12·8	12·7	12·7	12·5	12·9
Sept.	10·2	10·3	10·1	10·0	9·9	*9·8*	9·9	10·0	10·2	10·5	10·6	10·6	10·5	10·5	10·6	10·7	10·7	10·7	*10·9*	10·8	10·6	10·4	10·2	10·2	10·2	10·4
Oct.	9·3	9·2	*9·1*	9·2	9·2	9·2	9·2	9·1	9·2	9·4	9·6	9·7	*9·8*	9·8	9·7	9·7	9·7	9·7	9·6	9·5	9·5	9·4	9·4	9·3	9·2	9·4
Nov.	6·8	6·7	6·8	6·8	6·7	6·6	6·6	6·5	*6·4*	6·5	6·5	6·6	6·7	6·9	6·8	6·9	6·9	7·0	6·9	6·9	6·9	7·1	*7·1*	7·0	6·9	6·8
Dec.	6·6	6·6	6·6	6·5	6·5	6·5	6·5	6·5	6·5	6·6	6·7	6·8	6·8	6·8	6·8	*6·8*	6·8	6·7	6·7	6·7	6·6	6·6	6·5	*6·4*	6·5	6·6
Annual	8·4	8·5	8·4	8·4	8·4	*8·4*	8·4	8·5	8·5	8·6	8·7	8·8	8·8	*8·9*	8·9	8·8	8·8	8·8	8·8	8·8	8·7	8·7	8·6	8·5	8·5	8·6

* Mean of values, 1,2,·····23, ½(0 + 24).

RAINFALL

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

69 ABERDEEN: h_r(height of receiving surface above M.S.L.) = height of station above M.S.L. + height of receiving surface above ground = 24·1 m. + 0·6 m. 1944

	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	...	...	...	...	...	...	1·9	1·9	(3)	...	...	...	0·2	0·3	...	6·8	*7·6*	(6)
2	...	...	...	3·8	2·4	8	(0·8)	(1·0)	(2)	10·0	12·3	(3)	...	...	...	7·8	5·4	8
3	0·3	0·2	(3)	2·1	2·9	(3)	*(8·0)*	(5·3)	(5)	*16·5*	*12·9*	*(8)*	6·1	3·9	13	5·4	5·5	(3)
4	3·4	2·7	(8)	3·8	3·3	(3)	(3·8)	(1·5)	(9)	11·1	11·4	4	9·9	5·4	5	4·3	1·7	26
5	...	...	...	...	...	...	...	...	...	0·7	5·9	...	3·0	2·7	11	0·2	0·1	(2)
6	1·8	1·1	4	0·5	0·7	(2)	...	...	...	1·0	1·7	(1)	0·3	0·3	(1)	1·0	0·5	(12)
7	0·2	0·1	(3)	0·2	0·4	(1)	...	...	...	...	...	...	...	...	...	...	...	...
8	2·9	4·3	(4)	2·6	1·4	7	...	...	...	...	...	...	0·8	1·8	(2)	0·3	0·3	(2)
9	0·5	0·4	(3)	0·4	0·7	(1)	2·7	1·9	4	0·3	0·6	(1)	2·5	3·3	(4)	1·0	2·9	(1)
10	...	...	...	3·2	2·4	(5)	...	...	...	0·5	1·0	...	...	...	...	2·1	3·8	(4)
11	1·5	4·0	(2)	...	...	...	...	...	...	1·6	1·2	6	...	...	...	0·7	0·4	(4)
12	0·7	1·7	(1)	...	...	...	1·2	1·0	*12*	...	...	...	...	...	...	...	...	...
13	8·4	*6·1*	*10*	5·6	6·2	3	3·1	2·1	(8)	0·6	0·8	(2)	...	...	...	4·5	1·8	22
14	...	...	...	0·2	0·5	...	...	...	...	0·3	0·6	(1)	0·8	0·6	7	3·1	0·9	*73*
15	...	...	...	0·2	0·6	...	...	...	...	2·3	4·9	(1)	2·2	1·5	*14*	2·6	2·3	(5)
16	...	...	...	...	...	...	0·5	1·8	...	2·0	4·1	(1)	9·4	8·2	6	0·5	0·8	(1)
17	...	...	...	2·7	1·0	*(9)*	...	...	...	0·3	0·2	(2)	0·4	0·3	(1)	...	...	...
18	...	...	...	0·3	0·3	(2)	0·5	0·1	7	0·2	0·7	...	*26·3*	*12·4*	8	...	...	...
19	...	...	...	0·2	1·1	...	0·3	0·4	(2)	0·3	1·1	...	0·5	1·8	...	...	...	...
20	...	...	...	0·9	3·1	(1)	3·3	2·8	(2)	...	...	...	...	...	...	...	...	...
21	...	...	...	0·2	0·3	(1)	...	...	...	0·7	1·3	(1)	...	...	...	...	...	...
22	0·6	0·3	(6)	0·1	0·2	...	0·4	0·9	...	5·5	5·0	(3)	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	0·8	0·9	(1)	...	...	...	0·1	0·2	...
24	*9·1*	5·1	7	0·3	0·4	(2)	...	...	...	0·1	0·2	...	1·0	1·7	(1)	1·3	0·7	12
25	3·7	4·1	(4)	0·1	0·1	(1)	5·1	*6·4*	(2)	...	...	...	3·3	3·6	2	3·4	1·7	11
26	2·3	2·2	5	*12·7*	*8·1*	(6)	0·8	0·9	(1)	...	...	...	0·1	0·1	...	0·1	1·0	...
27	0·2	0·2	(1)	1·1	0·6	(7)	...	...	...	...	...	...	...	...	...	*10·9*	6·4	(30)
28	4·0	5·3	(3)	...	...	...	0·8	0·6	(1)	0·3	1·0	...	2·0	3·9	(1)	0·8	1·3	(2)
29	...	...	...	0·1	0·1	...	2·2	1·9	(2)	1·1	3·8	(1)	0·2	0·2	(1)	...	...	...
30	...	...	...				1·1	0·6	(5)	...	...	...	...	...	...	0·2	0·8	...
31	...	...	...				1·1	0·9	(10)				...	...	...			
Total	39·6	37·8	–	41·3	36·8	–	37·6	32·0	–	56·2	71·6	–	69·0	52·0	–	57·1	46·1	–

Note: Values in ( ) from March 2–4 are occasions when strong winds rendered snowfall measurements unreliable.

	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	...	...	...	...	...	...	...	...	...	2·8	0·9	34	...	...	...	...	...	...
2	10·6	3·5	23	...	...	...	3·6	1·3	15	...	...	...	0·3	0·5	(1)	0·1	0·1	(1)
3	9·2	*7·7*	*32*	...	...	...	...	...	...	6·4	3·3	28	0·4	0·4	(1)	1·8	1·6	8
4	*15·8*	4·7	30	...	...	...	9·9	*8·3*	*27*	2·5	2·0	(6)	4·4	2·0	26	0·3	0·3	...
5	...	...	...	...	...	...	1·8	1·2	7	1·1	2·5	(1)	...	...	...	...	...	...
6	...	...	...	...	...	...	0·4	0·1	11	0·1	0·5	...	3·3	1·1	8	...	...	...
7	...	...	...	...	...	...	...	...	...	0·1	0·5	...	1·3	0·8	(3)	...	...	...
8	...	...	...	5·6	2·4	6	0·2	0·1	(2)	0·2	0·5	...	...	...	...	7·3	3·4	9
9	...	...	...	...	...	...	1·1	0·7	17	...	...	...	5·6	4·8	(3)	1·4	1·3	5
10	2·2	3·2	(3)	...	...	...	...	...	...	...	...	...	0·5	0·3	(2)	4·6	4·5	(2)
11	...	...	...	0·5	0·3	*13*	...	...	...	*17·3*	*10·9*	24	...	...	...	*40·1*	*16·7*	*11*
12	...	...	...	0·3	0·1	4	...	...	...	1·5	1·8	(2)	...	...	...	4·6	2·1	8
13	1·1	2·9	(1)	...	...	...	...	...	...	4·3	2·7	7	5·6	3·0	21	...	...	...
14	1·4	1·2	2	...	...	...	...	...	...	3·0	2·9	7	3·3	1·1	(20)	4·1	3·9	(4)
15	0·6	0·3	5	...	...	...	0·5	0·4	(4)	...	...	...	8·7	1·9	*(30)*	6·5	7·3	(5)
16	...	...	...	0·5	0·4	(2)	0·6	0·5	(2)	...	...	...	5·3	2·6	19	3·0	4·6	(2)
17	...	...	...	...	...	...	...	...	...	3·5	1·8	4	7·0	6·4	9	10·2	3·9	(7)
18	...	...	...	...	...	...	...	...	...	0·6	0·7	(1)	...	...	...	...	...	...
19	...	...	...	2·1	3·4	(4)	...	...	...	0·2	0·1	(1)	0·7	1·8	...	...	...	...
20	0·5	0·5	4	...	...	...	*11·4*	5·7	(6)	15·8	9·9	32	4·4	2·2	11	...	...	...
21	0·1	0·2	...	...	...	...	...	...	...	4·0	3·7	(3)	0·4	0·7	...	3·5	2·4	3
22	...	...	...	...	...	...	3·4	2·8	5	...	...	...	*11·1*	*9·7*	(5)	...	...	...
23	...	...	...	0·2	1·0	...	0·9	0·8	(2)	4·1	3·3	(4)	...	...	...	...	...	...
24	...	...	...	0·4	0·5	(2)	10·1	5·6	19	...	...	...	...	...	...	...	...	...
25	1·2	3·2	(1)	0·1	0·1	...	0·7	0·4	(2)	1·1	1·7	(1)	0·1	0·1	...	...	...	...
26	6·3	6·8	11	...	...	...	4·1	1·2	12	3·7	2·7	*38*	...	...	...	...	...	...
27	1·0	1·3	3	1·4	0·9	(3)	1·3	0·9	(4)	0·2	0·2	...	3·9	3·4	4	0·6	1·2	...
28	...	...	...	*9·0*	*9·0*	3	...	...	...	5·1	3·2	13	0·1	0·2	...	...	...	...
29	...	...	...	...	...	...	2·0	1·1	6	2·4	3·1	(2)	...	...	...	...	...	...
30	0·2	2·0	...	...	...	...	...	...	...	...	...	...	...	...	...	1·9	1·4	7
31	...	...	...	2·7	1·6	11				0·9	1·0	(1)				...	...	...
Total	50·2	37·5	–	22·8	19·7	–	52·0	31·1	–	80·9	59·9	–	66·4	43·0	–	90·0	54·7	–

RAINFALL

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

70 ABERDEEN: h_r = 24·1 m. + 0·6 m. 1944

	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	0-24
	millimetres																								
Jan.	1·7	1·7	2·5	0·4	0·6	0·4	1·3	2·4	0·2	0·7	0·6	0·4	1·6	*6·0*	4·4	2·4	3·6	3·5	2·2	0·5	0·4	0·7	1·0	0·4	39·6
Feb.	3·0	3·1	2·5	2·0	1·8	0·2	0·7	1·2	*3·9*	2·0	3·3	1·7	1·6	1·1	1·4	2·7	0·5	0·7	0·7	0·8	2·5	1·9	1·2	0·8	41·3
Mar.	2·4	0·7	2·4	1·1	2·1	0·8	*3·2*	2·9	0·8	0·4	1·3	1·3	1·2	0·4	2·2	0·7	0·4	0·4	1·3	0·8	2·9	2·8	2·6	2·5	37·6
Apr.	1·9	1·3	0·4	0·8	0·5	0·6	1·6	3·1	3·5	2·9	2·0	2·6	2·0	2·1	2·4	2·8	3·6	1·7	3·4	*4·2*	*4·2*	2·9	2·9	2·8	56·2
May	1·2	4·3	3·1	2·8	3·9	2·6	1·9	1·4	1·8	0·4	1·2	2·0	3·1	2·4	4·2	6·1	*7·9*	4·3	4·3	4·4	2·9	1·0	0·9	0·9	69·0
June	2·1	1·9	1·1	0·2	0·6	2·1	1·1	2·5	*4·8*	2·3	1·1	3·0	2·5	1·5	3·1	2·9	3·7	3·8	2·7	4·6	3·7	2·4	0·9	2·5	57·1
July	0·9	*7·8*	3·3	1·9	3·0	4·5	3·1	5·6	6·8	3·5	0·1	0·6	0·4	0·2	0·6	1·8	0·2	···	0·1	0·2	0·6	1·9	1·3	1·8	50·2
Aug.	*2·5*	1·3	2·3	2·0	0·5	0·9	1·4	0·8	0·6	1·0	···	···	···	0·6	0·4	1·4	1·0	0·2	···	1·6	*2·5*	0·1	0·2	1·5	22·8
Sept.	3·6	0·4	0·3	1·0	1·0	1·5	2·9	5·6	5·1	5·7	4·0	1·7	2·5	0·6	0·5	0·9	1·9	*6·1*	2·8	0·7	0·1	1·5	0·4	1·2	52·0
Oct.	0·6	1·9	5·3	4·0	2·7	3·0	3·3	1·1	1·3	2·8	4·5	4·1	3·4	5·0	5·5	3·3	3·5	5·6	*5·9*	1·9	2·9	2·4	5·6	1·3	80·9
Nov.	1·1	1·1	1·3	3·5	2·4	3·7	1·4	1·0	2·3	0·3	1·5	4·7	2·9	2·0	3·0	4·0	2·2	3·9	6·0	0·8	6·8	*7·6*	1·8	1·1	66·4
Dec.	2·5	6·0	4·6	6·7	4·6	5·5	*7·3*	6·9	3·3	2·7	2·4	2·1	1·3	1·6	2·6	1·9	1·7	2·7	4·6	2·9	2·6	6·3	2·7	4·5	90·0
Annual	23·5	31·5	29·1	26·4	23·7	25·8	29·2	*34·5*	34·4	24·7	22·0	24·2	22·5	23·5	30·3	30·9	30·2	32·9	34·0	23·4	32·1	31·5	21·5	21·3	663·1

RAINFALL

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

71 ABERDEEN: h_r = 24·1 m. + 0·6 m. 1944

	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	0-24
	hours																								
Jan.	1·6	2·2	2·9	1·1	0·3	0·4	1·0	1·6	0·3	0·7	1·0	0·6	1·6	*4·4*	3·5	3·1	2·7	2·0	2·5	0·9	1·0	1·1	0·8	0·5	37·8
Feb.	*2·5*	2·0	1·9	2·2	1·8	0·5	0·7	1·6	2·4	1·8	1·5	1·1	1·3	1·4	1·9	1·6	0·6	0·9	0·3	1·2	*2·5*	1·9	1·3	1·9	36·8
Mar.	1·3	0·4	1·0	1·6	2·6	1·1	2·9	*3·1*	0·9	0·5	1·4	0·9	0·8	0·2	1·3	0·5	0·3	0·6	1·4	1·2	2·4	2·9	1·5	1·2	32·0
Apr.	3·9	3·0	2·0	2·7	2·2	1·0	2·3	3·3	3·2	4·2	3·1	2·3	2·4	2·0	1·9	2·1	3·7	1·3	2·4	4·7	*5·5*	3·6	3·7	5·1	71·6
May	1·3	2·8	2·3	2·4	*3·5*	3·1	2·2	1·4	2·1	1·1	1·4	1·3	1·8	2·6	3·1	2·9	3·2	1·9	1·5	1·5	2·8	1·9	1·9	2·0	52·0
June	2·4	2·2	2·7	0·5	0·9	2·0	1·2	1·2	1·2	1·7	1·0	2·2	1·2	0·6	1·3	2·0	2·0	*3·8*	2·0	2·8	3·4	2·6	1·9	3·3	46·1
July	1·5	1·6	1·9	3·6	2·9	*4·0*	2·2	1·8	1·5	1·2	0·2	0·9	0·7	0·3	0·7	1·5	0·4	···	0·1	1·0	1·9	3·3	2·0	2·3	37·5
Aug.	1·1	1·0	1·1	*2·0*	1·6	1·2	1·2	1·8	1·9	0·9	···	···	···	0·5	0·4	0·7	0·6	0·2	···	1·3	0·8	0·2	0·1	1·1	19·7
Sept.	2·4	0·5	0·1	0·7	1·0	1·2	2·2	*2·9*	2·5	*2·9*	1·7	1·7	1·8	0·5	0·3	0·5	1·0	2·5	1·6	0·6	0·1	0·6	1·0	0·8	31·1
Oct.	1·2	1·5	4·3	*4·6*	*4·6*	3·5	2·1	1·5	1·6	2·2	2·3	3·1	2·0	2·9	3·2	2·8	2·4	2·2	2·0	1·2	2·1	2·3	3·1	1·2	59·9
Nov.	0·8	0·9	2·0	2·5	2·1	2·1	1·7	1·2	1·2	0·2	1·4	2·0	1·9	1·5	2·3	2·9	2·0	2·3	2·0	0·8	*3·7*	3·3	1·0	1·2	43·0
Dec.	2·0	3·0	2·9	*3·7*	2·7	3·3	2·6	2·0	1·6	1·3	1·4	1·6	1·4	1·7	1·9	2·0	2·5	2·4	3·1	1·8	1·8	3·0	2·2	2·8	54·7
Annual	22·0	21·1	25·1	27·6	26·2	23·4	22·3	23·4	20·4	18·7	16·4	17·7	16·9	18·6	21·8	22·6	21·4	20·1	18·9	19·0	*28·0*	26·7	20·5	23·4	522·2

NOTES ON RAINFALL

72 ABERDEEN: 1944

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. or more

"Absolute drought": No occasions
"Partial drought": No occasions
"Dry spells": No occasions

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

"Rain spells" No occasions
"Wet spells" No occasions

Rainfall Duration

Hours	0·1–1·0	1·1–2·0	2·1–6·0	6·1–12·0	>12·0
Number of days	87	42	62	17	4

Continuous or Heavy Falls

The heaviest fall was 49 mm. and continued from the evening of December 10 to the morning of December 12

Heavy Falls in Short Periods

On July 4 10 mm. fell in 90 min.

Rate of Rainfall (Jardi Recorder)

The highest instantaneous rate of rainfall was 73 mm./hr. on June 14.

73 ABERDEEN: h_s (height of recorder above ground) = 20·7 m. 1944

	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	···	···	3·6	43	4·5	43	10·8	*82*	0·6	4	···	···	···	···	···	···	4·0	29	6·9	60	···	···	···	···
2	1·5	22	2·7	32	*7·3*	*69*	···	···	10·0	65	···	···	···	···	0·4	2	···	···	1·6	14	···	···	2·4	34
3	2·9	43	1·1	13	3·5	33	···	···	*10·3*	*66*	0·5	3	0·1	1	7·1	44	7·1	52	1·9	17	0·1	1	···	···
4	3·8	56	0·4	5	1·2	11	···	···	···	···	0·3	2	0·9	5	11·0	69	···	···	0·1	1	0·1	1	*5·8*	*84*
5	2·9	43	···	···	0·8	7	···	···	(4·7)	(30)	4·4	25	3·1	18	4·7	30	···	···	1·5	14	5·6	64	5·3	77
6	···	···	···	···	0·4	4	7·1	53	2·2	14	1·2	7	10·3	59	···	···	1·7	13	6·2	56	*7·0*	*80*	1·1	16
7	2·0	29	6·2	71	2·1	19	6·5	48	8·4	53	4·9	28	6·4	37	5·1	32	4·8	36	···	···	3·6	42	0·6	9
8	···	···	5·2	59	6·7	60	···	···	1·7	11	1·0	6	*12·1*	*69*	1·4	9	5·0	38	0·1	1	5·7	67	1·0	15
9	3·7	54	0·5	6	2·2	20	···	···	3·1	19	0·1	1	5·0	29	2·1	13	8·3	62	*8·4*	78	4·9	58	1·2	18
10	0·9	13	3·2	36	2·9	26	6·9	50	5·4	34	0·6	3	0·3	2	1·0	6	6·1	46	···	···	0·1	1	···	···
11	···	···	1·4	15	6·3	55	1·5	11	8·6	53	6·1	34	6·4	37	5·0	32	10·9	83	···	···	4·4	53	···	···
12	···	···	0·5	5	0·2	2	8·9	64	4·8	30	9·3	53	6·8	39	10·7	69	*11·0*	85	3·0	28	···	···	0·1	1
13	···	···	···	···	3·5	30	3·7	26	4·7	29	3·7	21	0·3	2	*11·2*	*73*	4·6	36	3·5	33	···	···	0·7	10
14	1·2	17	*7·4*	*80*	7·1	61	5·2	37	6·9	42	7·5	42	1·0	6	9·7	63	···	···	0·4	4	···	···	···	···
15	5·1	71	···	···	2·0	17	0·1	1	1·1	7	5·9	33	2·1	12	0·5	3	···	···	7·1	69	0·2	3	···	···
16	···	···	5·7	61	1·5	13	0·1	1	2·7	16	3·2	18	5·6	33	4·6	30	0·4	3	0·1	1	0·6	8	···	···
17	0·2	3	1·3	14	0·1	1	3·1	22	5·2	31	5·6	31	4·6	27	3·8	25	7·7	61	1·0	10	···	···	1·3	20
18	···	···	···	···	0·5	4	2·9	20	···	···	3·6	20	11·8	69	1·5	10	10·8	*86*	4·2	42	3·2	41	···	···
19	0·1	1	···	···	6·6	55	···	···	···	···	6·9	39	0·1	1	0·1	1	4·6	37	5·4	54	···	···	···	···
20	···	···	···	···	0·7	6	11·4	78	5·1	30	1·8	10	1·2	7	8·6	58	0·1	1	···	···	3·1	40	0·1	1
21	5·2	68	3·1	32	···	···	3·0	20	8·5	51	9·2	52	0·1	1	0·4	3	6·9	56	0·1	1	5·2	68	···	···
22	*5·5*	*72*	1·1	11	···	···	5·4	36	3·9	23	···	···	0·4	2	8·3	57	···	···	···	···	···	···	···	···
23	4·0	52	···	···	···	···	3·2	22	3·4	20	10·7	60	0·3	2	2·4	16	6·1	50	5·2	54	2·8	37	0·4	6
24	···	···	···	···	3·3	27	*11·8*	79	0·4	2	7·2	40	···	···	10·4	72	0·1	1	2·7	28	4·0	54	···	···
25	···	···	···	···	0·4	3	8·4	56	5·0	29	6·2	35	···	···	2·2	15	0·8	7	0·2	2	3·8	51	2·7	41
26	···	···	0·4	4	0·3	2	8·2	54	1·0	6	3·6	20	···	···	0·3	2	8·8	74	···	···	5·0	69	···	···
27	3·3	41	6·3	61	0·1	1	8·6	57	3·2	19	2·8	16	7·7	47	0·8	6	7·6	64	7·5	*80*	0·6	8	4·3	65
28	···	···	5·1	49	···	···	2·9	19	1·6	9	2·3	13	4·5	27	0·9	6	1·5	13	1·9	20	2·9	40	4·2	64
29	0·8	10	2·1	20	6·7	52	6·2	41	8·0	47	*11·1*	*62*	0·1	1	1·3	9	5·9	51	6·0	65	1·1	15	···	···
30	1·4	17			4·6	36	3·4	22	···	···	···	···	···	···	4·6	33	8·2	71	2·3	25	···	···	0·4	6
31	1·9	23			6·5	50			···	···			5·0	31	2·6	19			0·1	1			0·2	3
Mean	1·50	–	1·98	–	2·65	–	4·31	–	(3·89)	–	3·99	–	3·10	–	3·96	–	4·43	–	2·50		2·13	–	1·03	–
											Annual mean		2·95	–										

DURATION OF BRIGHT SUNSHINE

Monthly and annual totals between exact hours, local apparent time

74 ABERDEEN: h_s = 20·7 m. 1944

	Hour L.A.T. 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	Total	Per cent. of possible
	hours																			%
Jan.	–	–	–	–	···	0·4	5·2	10·1	*11·3*	9·2	6·5	3·6	0·1	···	–	–	–	–	46·4	20
Feb.	–	–	–	···	0·1	2·9	6·0	8·3	8·6	*9·3*	9·2	7·8	4·4	0·7	···	–	–	–	57·3	21
Mar.	–	–	···	0·7	4·8	7·1	9·2	9·9	8·8	9·4	*10·0*	9·8	7·8	3·7	0·8	···	–	–	82·0	22
Apr.	–	···	3·2	6·8	9·8	10·7	10·2	12·6	11·9	11·0	*13·0*	12·0	10·9	8·6	6·7	1·9	···	–	129·3	30
May	···	1·2	4·7	7·5	9·7	(10·2)	(12·0)	*(12·1)*	(8·7)	(8·8)	(9·1)	(7·1)	(8·3)	(8·0)	7·7	4·9	0·5	···	(120·5)	(24)
June	0·2	4·0	4·7	6·8	5·6	7·3	8·0	8·4	9·2	10·2	*10·6*	8·6	8·2	7·2	8·5	7·0	4·8	0·4	119·7	23
July	···	0·1	2·3	3·7	6·3	*9·4*	8·7	8·8	8·9	8·4	6·1	6·2	8·2	7·1	4·9	3·9	3·1	0·1	96·2	18
Aug.	···	0·7	4·4	6·9	10·1	9·8	7·6	7·9	7·7	9·3	12·0	*12·2*	12·0	9·2	8·2	4·4	0·3	···	122·7	26
Sept.	–	–	0·1	4·4	13·4	*14·5*	12·7	13·9	14·0	13·0	13·4	10·7	10·4	8·0	4·5	···	–	–	133·0	35
Oct.	–	–	–	···	2·5	6·8	6·6	8·1	7·5	9·6	*10·8*	10·7	10·7	3·9	0·2	–	–	–	77·4	24
Nov.	–	–	–	–	···	2·4	7·9	*12·0*	11·9	11·6	9·7	7·1	1·4	···	–	–	–	–	64·0	27
Dec.	–	–	–	–	–	···	3·1	5·9	*7·8*	6·3	4·9	3·8	···	–	–	–	–	–	31·8	15
Annual	0·2	6·0	19·4	36·8	62·3	81·5	97·2	*118·0*	116·3	116·1	115·3	99·6	82·4	56·4	41·5	22·1	8·7	0·5	1080·3	24

Note: On May 5 no record till 17h: Craibstone's values used for missing hours.

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

75 ABERDEEN: h_a (height of anemograph above M.S.L.) = height of ground above M.S.L. + height of anemograph above ground = 24 m. + 13 m. 1944

	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	6·6	20	4·8	18	5·6	18	2·4	7	3·7	15	2·6	10	1·8	9	3·1	8	3·7	15	4·6	18	3·2	9	3·8	15
2	6·2	20	2·9	17	9·6	24	6·8	18	7·2	23	1·1	7	1·4	6	3·2	9	3·1	12	3·5	19	1·4	6	5·0	17
3	5·7	15	5·9	28	7·3	22	3·8	13	*8·2*	*25*	2·5	9	2·0	9	3·5	10	3·3	12	*6·9*	*23*	2·2	9	3·6	19
4	5·1	17	*9·9*	*30*	4·8	17	3·1	10	3·8	18	4·5	15	1·5	7	1·5	6	2·7	10	4·9	18	4·7	19	7·2	24
5	3·7	18	3·3	13	2·7	10	2·7	9	4·1	17	*6·4*	*20*	2·3	9	3·6	11	3·4	11	1·6	9	5·3	24	2·4	12
6	3·7	16	2·7	14	1·7	7	2·9	10	2·3	10	4·7	16	2·1	9	3·5	11	2·8	11	0·8	5	4·1	14	2·3	12
7	4·1	18	7·5	25	1·4	4	3·8	12	3·7	14	5·6	15	1·7	8	*3·9*	15	2·2	7	*0·7*	3	3·2	13	1·6	8
8	4·3	16	6·5	19	1·3	4	4·5	16	3·3	13	3·2	11	3·0	13	1·5	9	3·4	10	1·3	8	3·0	13	4·3	11
9	6·3	21	7·1	21	1·2	9	2·2	9	3·3	14	*1·0*	4	2·5	10	*1·4*	6	3·9	15	1·7	9	*7·8*	24	7·0	16
10	4·8	16	6·8	22	4·8	17	2·2	11	2·1	9	2·8	12	3·8	12	2·6	15	2·0	10	2·8	11	4·6	*	2·1	12
11	2·4	14	3·1	11	6·7	24	1·2	8	*1·0*	7	3·2	13	*6·3*	*17*	3·1	15	*1·4*	8	5·1	18	*1·4*	*	3·6	15
12	3·5	13	1·7	9	4·6	22	1·4	6	3·1	12	4·2	16	3·9	16	3·3	15	2·1	10	4·8	18	1·4	4	2·6	10
13	3·9	15	4·2	14	*11·0*	*27*	2·7	12	2·6	10	2·4	10	1·6	6	3·1	13	3·2	12	3·9	15	3·3	21	1·9	14
14	3·5	14	3·5	11	6·9	18	1·5	6	3·9	17	3·3	13	1·4	9	2·8	11	2·5	9	4·7	22	7·8	24	*8·1*	21
15	3·4	12	6·7	20	2·5	11	*1·1*	6	5·8	18	3·1	11	2·4	12	3·0	11	1·9	8	2·5	12	4·1	18	6·4	20
16	3·1	12	3·8	13	1·4	7	1·9	8	5·0	20	4·0	17	1·6	6	2·4	9	4·4	20	3·3	12	5·0	16	7·6	21
17	2·6	10	2·4	8	1·2	7	2·8	10	2·2	7	2·8	10	1·4	5	2·4	14	2·0	10	3·0	15	7·3	24	7·5	*25*
18	4·4	16	*1·6*	8	4·4	23	3·9	12	3·4	(11)	1·8	8	1·4	6	3·3	*16*	2·4	13	3·2	14	1·6	7	1·7	15
19	1·8	7	2·0	9	7·3	22	6·3	19	4·4	14	1·9	9	1·3	5	2·3	9	4·0	15	3·6	15	2·4	9	3·2	13
20	4·5	18	1·8	9	5·6	22	6·3	25	4·7	16	3·4	11	2·3	10	3·9	15	1·7	7	6·0	19	5·2	19	3·9	15
21	5·1	18	4·4	15	1·5	7	4·5	18	4·3	13	3·2	11	3·4	12	2·7	11	1·9	7	2·1	14	2·7	13	2·9	10
22	6·5	22	5·5	16	2·6	11	5·5	20	2·8	8	2·8	10	3·7	11	2·0	7	3·4	13	3·0	13	3·7	14	1·8	8
23	4·3	18	5·3	15	1·0	5	3·1	15	2·5	14	3·1	12	2·9	10	1·6	9	1·9	10	4·8	11	2·3	9	*1·4*	9
24	5·8	25	3·4	11	1·3	8	*7·7*	*27*	2·1	9	1·5	9	1·2	4	3·2	13	3·0	13	3·4	*	2·7	8	1·9	9
25	*7·7*	*29*	3·2	11	*0·7*	4	6·5	24	4·3	17	2·2	11	2·7	11	2·1	11	3·4	19	1·3	7	5·5	16	2·3	13
26	4·3	16	4·4	18	1·5	9	2·9	17	3·3	15	1·6	6	2·7	11	1·8	7	6·7	*24*	4·3	19	3·3	14	3·1	15
27	5·6	25	3·9	17	1·7	6	5·5	18	3·1	21	2·3	16	1·0	5	3·1	15	*7·2*	23	2·5	10	4·3	*27*	3·3	14
28	3·5	14	3·0	9	1·8	9	5·2	15	1·6	9	3·5	16	2·6	10	3·1	15	3·3	15	1·7	11	4·2	17	1·7	8
29	2·6	15	3·4	14	4·5	16	3·7	15	1·4	7	1·9	7	1·1	5	2·4	7	4·8	21	2·2	10	3·5	12	2·2	11
30	*1·4*	12			2·9	13	4·4	12	1·6	7	1·8	7	*0·9*	3	3·0	14	3·2	15	2·5	6	2·1	10	2·8	11
31	4·2	17			3·2	13			2·1	6			1·9	10	2·6	9			2·7	8			2·3	9

* Clock stopped.

WIND

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

76 ABERDEEN: h_a = 24 m. + 13 m. 1944

	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.	3·8	3·9	4·1	4·1	4·2	4·0	4·2	4·3	4·1	4·2	4·6	4·8	4·9	5·0	*5·4*	5·0	4·7	4·3	4·5	4·3	4·2	3·8	*3·7*	3·8	4·3
Feb.	*3·8*	3·8	4·1	4·1	4·2	4·3	4·3	4·3	4·4	4·3	4·5	4·7	5·1	5·1	*5·3*	4·9	4·7	4·4	4·0	3·8	3·9	3·9	4·1	3·8	4·3
Mar.	3·3	3·2	3·5	3·3	3·4	3·2	3·6	3·5	3·6	3·6	3·9	4·4	*4·8*	4·8	4·5	4·4	4·0	3·6	3·4	3·5	3·5	*3·2*	3·3	3·4	3·7
Apr.	3·0	3·0	2·9	2·9	*2·9*	2·9	3·1	3·6	3·9	4·0	4·5	4·6	4·8	*4·9*	4·8	4·5	4·4	4·4	4·4	3·9	3·5	3·3	3·0	3·1	3·8
May	2·6	2·5	2·4	2·4	2·5	2·8	3·1	3·8	4·1	4·3	4·4	*4·5*	4·3	4·5	4·4	4·3	4·2	4·1	3·8	3·3	2·8	2·7	2·6	*2·4*	3·4
June	2·2	2·2	2·1	2·0	*1·9*	2·4	2·9	3·2	3·5	3·8	4·0	*4·2*	4·1	3·9	3·8	3·9	3·6	3·1	2·9	2·5	2·1	2·0	2·0	2·3	2·9
July	1·6	*1·6*	1·8	1·6	1·6	1·8	2·0	2·2	2·3	2·8	2·9	3·1	3·2	*3·3*	3·0	3·0	2·7	2·4	2·1	2·1	1·8	1·7	1·7	1·7	2·3
Aug.	*2·0*	2·0	2·2	2·2	2·1	2·2	2·2	2·6	3·0	3·1	3·3	3·5	3·6	3·7	*3·7*	3·7	3·4	2·9	2·7	2·4	2·3	2·2	2·3	2·4	2·7
Sept.	2·6	2·6	2·6	2·6	2·6	2·7	2·8	3·0	3·6	3·7	3·9	4·4	4·4	*4·4*	4·3	4·2	3·8	3·2	2·7	2·5	2·3	2·4	*2·2*	2·3	3·2
Oct.	2·7	*2·6*	2·7	2·6	2·6	2·7	2·7	3·1	3·3	3·7	3·9	4·1	*4·3*	4·3	4·2	3·9	3·4	3·2	3·0	2·9	2·8	2·8	2·8	2·8	3·2
Nov.	3·3	3·4	3·1	*3·1*	3·1	3·5	3·5	3·7	4·0	4·0	4·1	4·4	*4·7*	4·4	4·3	4·1	3·9	3·7	3·8	3·6	3·9	3·7	3·7	3·5	3·8
Dec.	3·4	3·4	3·4	3·5	3·5	3·5	3·7	3·8	3·7	3·7	3·8	*4·1*	4·0	3·8	3·9	*3·3*	3·4	3·5	3·7	3·6	3·6	3·5	3·4	3·5	3·6
Annual	2·8	*2·8*	2·9	2·9	2·9	3·0	3·2	3·4	3·6	3·8	4·0	4·2	*4·4*	4·3	4·3	4·1	3·8	3·6	3·4	3·2	3·1	2·9	2·9	2·9	3·4

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

77 ABERDEEN: h_a = 24 m. + 13 m. 1944

	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	2	8	208	443	85	0	330	15	25 14	29	25 14 25
Feb.	–	0	3	12	189	415	80	0	310	17	4 7	30	4 6 45
Mar.	–	0	4	26	162	331	225	0	340	13	13 13	27	13 12 20
Apr.	–	0	2	12	138	436	134	0	320	15	24 21	27	24 17 15
May	–	0	2	6	118	479	141	0	320	13	3 9	25	3 8 40
June	–	0	–	0	75	449	196	0	290	9	5 19	20	5 15 35
July	–	0	–	0	30	422	292	0	320	9	11 16	17	11 5 30
Aug.	–	0	–	0	24	574	146	0	220	7	11 1	16	18 7 25
Sept.	–	0	2	2	74	505	139	0	300	11	27 12	24	26 13 35
Oct.	–	0	–	0	134	405	205	0	320	11	3 16	23	3 15 10
Nov.	–	0	3	7	155	441	117	0	130	11	17 15	27	27 21 30
Dec.	–	0	2	9	153	419	163	0	140	12	17 7	25	17 5 50
Year	–	0	20	82	1460	5319	1923	0	310	17	Feb. 4 7	30	Feb. 4 6 45

78 ABERDEEN 1944

	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	76·6	78·2	77·1	77·4	75·6	77·4	78·1	78·7	82·8	80·9	84·7	82·5	86·3	84·9	88·6	86·3	86·9	86·5	83·5	84·9	80·7	82·6	77·1	79·3
2	77·4	78·1	77·4	77·4	75·3	77·4	78·1	78·7	83·0	80·9	84·1	82·6	86·1	84·7	88·2	86·3	86·5	86·4	82·9	84·7	80·5	82·5	77·6	79·3
3	77·4	78·2	77·6	77·5	75·2	77·4	77·9	78·6	82·1	81·1	83·9	82·7	86·4	84·8	88·0	86·3	85·9	86·5	82·4	84·6	80·9	82·5	76·9	79·3
4	76·7	78·3	76·9	77·6	75·1	77·3	78·3	78·6	81·9	81·2	84·2	82·7	86·4	84·9	87·9	86·4	85·8	86·4	82·4	84·5	80·3	82·4	76·7	79·1
5	76·4	78·4	76·2	77·5	74·9	77·1	78·4	78·6	81·3	81·3	84·2	82·9	86·9	85·0	88·5	86·4	85·5	86·3	82·5	84·4	80·2	82·3	76·4	79·1
6	76·7	78·3	75·8	77·6	75·2	77·1	78·4	78·6	81·3	81·3	84·1	82·9	87·0	85·1	88·5	86·5	85·7	86·2	82·9	84·2	79·7	82·3	76·0	79·0
7	76·9	78·2	75·8	77·6	75·8	77·0	79·1	78·6	81·3	81·1	84·1	83·0	87·6	85·1	88·3	86·6	85·1	86·1	83·5	84·1	79·1	82·1	75·7	78·9
8	76·4	78·3	75·9	77·6	75·9	77·0	79·5	78·6	81·8	81·2	84·4	83·0	87·9	85·1	88·4	86·5	84·9	85·8	83·6	84·1	78·9	82·0	75·5	78·9
9	76·2	78·2	75·9	77·5	75·9	77·0	79·4	78·7	82·3	81·2	84·7	83·0	88·3	85·2	88·5	86·5	84·7	85·9	83·6	84·1	78·4	81·9	75·3	78·7
10	75·8	78·1	75·9	77·4	76·1	76·9	79·7	78·7	82·5	81·2	84·8	83·0	88·4	85·3	88·5	86·7	84·4	85·9	83·5	84·1	77·9	81·7	75·2	78·5
11	75·4	78·1	75·8	77·4	76·5	76·9	80·4	78·9	82·9	81·3	84·9	83·0	88·0	85·5	88·6	86·6	84·2	85·7	83·6	84·1	77·8	81·6	75·1	78·4
12	75·2	78·0	75·9	77·4	77·1	77·1	80·3	78·9	83·7	81·3	85·0	83·1	87·7	85·7	88·5	86·7	84·3	85·7	83·7	84·1	77·5	81·4	74·9	78·1
13	75·2	77·9	76·1	77·4	77·3	77·2	80·5	79·1	83·7	81·4	85·2	83·2	87·6	85·7	88·3	86·8	84·6	85·5	83·1	84·1	77·1	81·1	74·9	77·9
14	75·3	77·9	76·5	77·4	76·9	77·3	80·7	79·3	83·2	81·6	85·1	83·3	87·6	85·7	87·9	86·8	85·1	85·5	83·0	84·1	77·2	80·9	74·9	77·9
15	75·7	77·8	76·3	77·4	76·4	77·3	81·2	79·4	82·8	81·7	85·1	83·4	87·7	85·8	88·0	86·8	85·5	85·4	82·6	84·0	77·4	80·7	75·5	77·9
16	75·7	77·7	76·6	77·4	76·7	77·4	81·4	79·5	82·2	81·7	85·1	83·5	87·4	85·9	87·9	86·8	85·7	85·4	82·3	83·9	77·6	80·5	76·1	77·7
17	75·8	77·6	76·6	77·4	77·2	77·3	81·4	79·6	82·1	81·7	85·1	83·5	87·9	85·8	88·1	86·8	85·1	85·4	82·5	83·9	78·0	80·4	76·7	77·7
18	76·2	77·5	76·4	77·4	77·5	77·4	81·4	79·7	82·3	81·8	85·5	83·5	88·0	86·0	88·3	86·8	85·5	85·3	82·3	83·7	78·2	80·3	77·1	77·7
19	76·3	77·4	76·3	77·4	77·9	77·5	81·4	79·8	82·0	81·8	85·9	83·6	88·5	86·0	88·1	86·8	85·7	85·3	82·2	83·7	78·3	80·3	76·5	77·9
20	76·0	77·5	76·2	77·4	77·4	77·5	81·2	80·0	81·9	81·9	86·5	83·8	88·4	86·0	87·7	86·8	85·8	85·3	81·8	83·5	78·1	80·2	76·5	77·9
21	75·9	77·6	76·2	77·4	77·8	77·5	81·2	80·2	82·2	81·8	86·6	83·9	88·0	86·1	87·4	86·8	85·7	85·3	81·9	83·5	78·0	80·2	77·1	77·9
22	76·0	77·5	76·3	77·4	77·8	77·7	81·3	80·2	82·3	81·8	86·8	84·1	87·9	86·1	86·9	86·7	85·5	85·3	82·1	83·4	77·7	80·1	77·1	77·9
23	76·0	77·4	76·6	77·4	77·9	77·9	81·3	80·2	82·3	81·8	86·6	84·2	87·5	86·2	87·0	86·7	85·4	85·3	82·5	83·3	77·7	80·1	76·9	77·9
24	75·7	77·4	76·8	77·4	78·5	77·8	81·9	80·2	82·9	81·9	86·4	84·4	87·4	86·2	87·4	86·6	85·1	85·3	82·0	83·3	77·8	80·0	76·1	78·0
25	75·6	77·4	77·0	77·4	78·9	77·9	81·8	80·3	83·3	81·9	86·8	84·6	87·2	86·2	87·9	86·5	84·3	85·3	81·5	83·3	77·4	79·9	75·8	78·0
26	75·6	77·4	77·0	77·4	79·5	78·0	82·0	80·3	83·6	81·9	86·7	84·6	87·1	86·1	88·0	86·5	83·9	85·2	81·7	83·1	76·9	79·9	75·9	77·9
27	75·7	77·4	76·4	77·5	79·8	78·1	82·1	80·5	84·0	81·9	86·7	84·7	87·1	86·1	87·7	86·6	83·5	85·2	81·7	83·1	76·3	79·8	75·9	77·9
28	75·9	77·4	76·1	77·5	80·1	78·3	82·1	80·5	84·2	81·9	86·6	84·8	87·9	86·1	87·4	86·5	83·3	85·1	80·9	83·0	76·1	79·7	75·7	77·9
29	76·2	77·4	75·7	77·5	79·5	78·5	82·0	80·7	84·7	82·2	86·5	84·9	88·1	86·1	87·0	86·7	83·6	84·9	80·8	82·9	76·4	79·5	75·3	77·9
30	76·7	77·4			78·9	78·6	82·5	80·7	85·5	82·4	86·5	84·8	88·2	86·1	87·3	86·5	83·9	84·9	80·7	82·9	76·4	79·4	75·1	77·8
31	76·8	77·4			78·5	78·6			85·1	82·4			88·3	86·3	87·0	86·5			80·5	82·7			74·9	77·7
Mean	76·1	77·8	76·4	77·4	77·2	77·5	80·5	79·5	82·8	81·6	85·4	83·6	87·6	85·7	87·9	86·6	85·0	85·6	82·4	83·8	78·1	80·9	76·0	78·3
												Year	81·3	81·5										

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 18h. TO 7h., G.M.T.

79 ABERDEEN 1944

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	degrees Absolute											
1	77·1	77·8	69·4	*68·1*	77·0	78·8	82·9	85·6	79·2	74·3	74·5	78·1
2	79·7	73·5	66·8	72·3	81·3	80·2	83·2	84·1	76·3	70·5	77·7	72·0
3	72·6	71·8	69·7	75·7	73·0	75·0	83·2	81·7	74·1	73·5	78·3	72·4
4	71·3	68·6	68·5	77·0	*70·7*	82·6	83·9	75·7	79·3	78·1	69·8	73·1
5	71·4	71·1	71·4	76·7	75·8	79·1	84·1	83·9	80·5	75·5	77·1	68·0
6	78·4	*65·3*	73·2	76·1	71·8	79·3	79·1	83·2	79·7	79·8	(72·0)	68·5
7	73·9	75·1	68·7	75·8	70·8	77·2	82·3	83·9	72·3	79·1	71·3	*65·9*
8	69·8	71·9	66·9	75·6	76·6	79·7	83·9	84·5	74·1	75·9	71·0	69·4
9	70·7	72·1	*65·7*	77·4	78·8	81·3	83·5	83·0	75·2	75·7	70·2	72·9
10	69·0	72·0	72·9	77·1	73·0	79·8	84·7	82·1	*70·8*	79·1	72·5	68·7
11	*61·7*	72·4	76·2	72·9	75·8	79·1	83·9	86·9	73·5	82·1	70·9	71·5
12	69·6	70·1	75·1	71·3	74·9	76·8	80·7	79·3	72·9	80·1	68·0	74·5
13	73·7	75·2	71·8	71·5	75·5	76·9	81·3	76·9	75·5	70·9	68·1	68·2
14	71·3	71·8	71·2	78·3	71·5	78·5	83·1	74·0	83·5	79·9	74·1	74·5
15	72·7	72·2	68·4	77·2	71·5	75·3	81·3	84·1	84·6	71·6	73·5	76·1
16	71·3	72·7	76·0	78·3	75·1	81·9	76·6	81·9	83·9	73·5	75·7	76·9
17	75·8	71·4	70·8	76·9	75·0	77·6	80·9	78·7	75·1	74·6	76·3	77·9
18	68·3	72·3	74·9	76·7	78·1	81·9	*75·8*	85·9	78·5	78·7	73·0	76·3
19	72·5	72·9	72·3	72·5	77·5	78·5	78·5	81·4	79·7	72·0	76·3	69·5
20	67·5	72·3	72·8	71·7	76·7	82·9	82·5	78·8	84·5	71·5	73·0	76·3
21	70·4	70·5	73·2	77·4	76·9	81·3	82·7	80·6	77·9	78·5	72·8	74·2
22	75·0	72·3	69·7	77·5	72·2	78·3	82·5	*72·3*	81·3	76·3	68·1	76·7
23	68·2	76·2	75·6	77·9	74·9	80·3	82·1	75·2	72·5	80·5	74·1	68·0
24	67·9	75·3	78·1	74·1	79·1	*74·8*	81·8	83·5	76·0	75·9	70·2	67·9
25	70·7	75·6	75·7	76·1	82·5	80·7	82·8	82·5	71·7	76·0	70·9	72·8
26	69·1	72·4	79·8	74·3	80·5	75·2	84·5	79·7	76·5	78·9	70·2	70·8
27	75·4	67·8	77·2	72·9	82·1	82·8	81·9	83·1	76·3	*70·1*	*66·4*	75·7
28	75·2	66·2	75·1	77·3	81·3	75·5	81·4	82·9	74·0	72·9	74·9	68·9
29	73·3	67·8	70·4	78·5	81·7	75·5	84·1	81·7	81·2	74·6	72·1	67·5
30	71·9		71·3	77·1	81·2	78·8	85·3	80·5	75·0	72·9	70·4	71·3
31	70·3		69·4		80·7		78·2	79·7		76·6		72·5
Mean	71·8	72·0	72·2	75·4	76·6	78·9	82·0	81·2	77·2	75·8	72·4	72·2
						Year	75·6					

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 18h. on the previous day to 7h. on the day to which it is entered.

Add 0·16° to obtain temperature in degrees Kelvin where $T(°K.) = t(°C.) + 273·16$.

ESKDALEMUIR

ESKDALEMUIR OBSERVATORY

Latitude	55°19′N.
Longitude	3°12′W.
G.M.T. of Local Mean Noon	12h.13m.
Height of site above mean sea level ..	235 to 250m.

Heights of instruments	above M.S.L.	above ground
	m.	m.
Barometer	237·3	..
Thermometer bulbs	..	0·9
Rain-gauge	242·0	..
Dines tilting syphon recorder	..	..
Sunshine recorder	..	1·5
Pressure-tube anemograph	250	15

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 syphon recorder in September 1940.

NOTES ON THE METEOROLOGICAL SUMMARIES

The extreme temperatures during the year were 298·8°A. (78·4°F.) on August 4 and 261·5°A. (11·3°F.) on March 15. January 10 with a mean temperature of 268·1°A. (23·2°F.) was the coldest day of the year and August 6 with 290·2°A. (63·0°F.) was the hottest. There were 2 ice days, i.e. days with maximum temperature below 273°A.; these occurred on January 10 and February 27.

The total rainfall for the year 1573·5 mm. (61·95 in.) was slightly greater than normal. Snow fell on 55 days.

The total duration of bright sunshine, 1094·8 hr., was less than normal.

The highest gust of wind during the year was 31·2 m./sec. (70 m.p.h.) on February 3. The highest hourly speed 18·2 m./sec. (41 m.p.h.) also occurred on the same day.

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 1911–20 by Dr. A. Crichton Mitchell*.

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* MITCHEL, A. CRICHTON: On the diurnal variation of atmospheric pressure at Eskdalemuir and Castle O'er, Dumfriesshire. *Quart. J.R. met. Soc., London*, **50**, 1924, p. 127.

HARMONIC COEFFICIENTS OF THE DIURNAL INEQUALITY OF ATMOSPHERIC PRESSURE
ESKDALEMUIR, LONGITUDE 3°12′W.

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

	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1944	1911-1920	1944	1911-1920	1944	1911-1920	1944	1911-1920	1944	1911-1920	1944	1911-1920	1944	1911-1920	1944	1911-1920
	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°
January	0.26	0.09	97	346	0.19	0.23	134	152	0.17	0.13	360	345	0.07	0.05	161	214
February	0.37	0.12	127	215	0.26	0.27	159	138	0.14	0.08	354	341	0.09	0.04	100	68
March	0.09	0.13	358	185	0.30	0.30	158	145	0.05	0.05	313	335	0.04	0.05	349	25
April	0.20	0.21	42	92	0.26	0.30	149	155	0.04	0.02	172	156	0.08	0.05	333	356
May	0.09	0.23	86	53	0.26	0.27	152	147	0.08	0.07	172	160	0.03	0.03	341	330
June	0.14	0.15	82	54	0.24	0.23	143	146	0.09	0.08	170	161	0.03	0.02	355	326
July	0.22	0.17	74	69	0.23	0.21	140	141	0.11	0.08	151	156	0.02	0.02	335	300
August	0.20	0.11	162	115	0.29	0.24	148	148	0.08	0.06	174	157	0.04	0.05	352	331
September	0.14	0.12	5	88	0.35	0.31	158	152	0.02	0.01	92	111	0.08	0.05	16	345
October	0.24	0.11	358	76	0.28	0.31	173	159	0.07	0.06	10	8	0.03	0.04	56	33
November	0.51	0.13	182	183	0.13	0.24	151	168	0.08	0.10	45	9	0.03	0.01	133	146
December	0.12	0.14	96	97	0.24	0.21	166	147	0.10	0.12	355	4	0.03	0.07	233	213
Arithmetic mean	0.21	0.14			0.25	0.26			0.09	0.07			0.05	0.04		
Year	0.11	0.09	101	91	0.25	0.26	154	150	0.02	0.02	33	42	0.02	0.02	20	342
Winter	0.25	0.04	139	165	0.20	0.24	154	151	0.12	0.11	4	355	0.04	0.02	139	189
Equinox	0.16	0.11	12	104	0.30	0.31	160	153	0.02	0.02	356	4	0.05	0.04	360	9
Summer	0.13	0.15	103	67	0.25	0.24	146	146	0.09	0.07	166	159	0.03	0.03	347	324

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

ATMOSPHERIC ELECTRICITY

The disposition of the instruments and the arrangement of the tables recording the results remain substantially the same as described in the 1938 volume. Wulf quartz-thread electrometer (N.3040) was calibrated in June. No material change had taken place since the previous year.

TERRESTRIAL MAGNETISM

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

NOTES ON THE RESULTS

Comparing mean values on all days of 1944 with those for 1943 it is noted that H increased by 7γ, D (west) decreased by 8·2′ and V increased by 12γ. The changes in the deduced quantities N, W, I and T are +15γ, −37γ, −0·1′, +14γ. If these changes are compared with those for previous years the discontinuities introduced on January 1, 1934 in H and V and the components derived from them must be kept in mind.

The ranges between the extreme values recorded during 1944 were H, 1564γ; D, 2°24·9′; and V 833γ.

Table I summarizes the magnetic character figures assigned locally and the international mean character figures. At the assembly of the association of Terrestrial Magnetism and Electricity at Washington in September 1939, a new measure of magnetic disturbance, the *K* index was agreed upon. Measurements of *K* are now given in this volume replacing the former measure $(HR_H + VR_V)10^{-4}$ in accordance with the I.A.T.M.E. circular letter dated January 20, 1940. The *K* index is fully described in Terrestrial Magnetism and Atmospheric Electricity*. Briefly a figure is allotted, on a scale 0–9, to each

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

3-hr. 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 V 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 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

Table I has been slightly changed in form from years before 1940 owing to the omission of $(HR_H + VR_V)10^{-4}$. *K* figures and their sums have been given for each day in the main tables but as it is considered that monthly means of *K* figures are not a good measure of activity they are not included.

TABLE I

	Magnetic character figures: Number of 0 days	1 days	2 days	Mean character figures: Eskdalemuir	International
January	16	15	0	0·48	0·61
February	18	10	1	0·41	0·53
March	8	21	2	0·81	0·81
April	10	19	1	0·70	0·64
May	14	16	1	0·58	0·46
June	10	20	0	0·67	0·42
July	12	19	0	0·61	0·35
August	12	17	2	0·68	0·50
September	10	19	1	0·70	0·51
October	15	13	3	0·61	0·51
November	23	6	1	0·27	0·30
December	13	15	3	0·68	0·58
Year					
1944	161	190	15	0·60	0·52
1943	146	197	22	0·66	0·68
1942	151	191	23	0·65	0·64
1941	172	168	25	0·60	0·73
1940	156	184	26	0·65	0·72
1939	167	172	26	0·61	0·77
1938	183	135	47	0·63	0·76
1937	116	205	44	0·81	0·73
1936	144	198	24	0·67	0·65
1935	130	212	23	0·71	0·67
1934	167	178	20	0·60	0·56

The values of mean absolute daily range for the months and seasons are brought together in Table II where 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.

The frequency distribution of absolute daily ranges recorded in 1944 is shown in Table III which contains also the percentage distribution for 1944 and for the period 1932–1942.

TABLE II – ABSOLUTE DAILY RANGE AND MEAN MONTHLY VALUES

	Mean absolute daily range						Mean daily range expressed as percentage of yearly mean					
	1944			Mean 1932–42			1944			Mean 1932–42		
	H	D	V	H	D	V	H	D	V	H	D	V
	γ	γ	γ	γ	γ	γ	%	%	%	%	%	%
January	70	91	45	78	79	44	90	117	96	81	91	77
February	66	76	41	76	86	50	85	97	87	79	99	88
March	101	94	64	122	113	82	129	121	136	127	130	144
April	102	89	56	125	103	79	131	114	119	130	118	139
May	79	67	49	111	86	66	101	86	104	116	99	116
June	77	67	39	100	81	50	99	86	83	104	93	88
July	69	65	29	106	82	53	88	83	62	110	94	93
August	76	75	47	102	85	57	97	96	100	106	98	100
September	77	82	43	102	95	64	99	105	91	106	109	112
October	77	85	54	97	94	65	99	109	115	101	108	114
November	41	48	25	67	75	41	53	62	53	70	86	72
December	98	93	68	61	69	40	126	119	145	64	79	70
Winter	69	77	45	70	77	44	88	99	96	73	89	77
Equinox	89	87	54	111	101	72	114	112	115	116	116	126
Summer	75	69	41	105	84	57	96	88	87	109	97	100
Year	78	78	47	96	87	57	..	..	..	..	..	..

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

TABLE III – FREQUENCY DISTRIBUTION OF ABSOLUTE DAILY RANGE

Range	Number of cases, 1944			Percentage distribution					
	H	D	V	H 1944	H 1932–42	D 1944	D 1932–42	V 1944	V 1932–42
γ				%	%	%	%	%	%
0 – 9	0	0	12	0·0	0·0	0·0	0·0	3·3	3·0
10 – 19	7	4	66	1·9	1·0	1·1	0·4	18·0	15·8
20 – 29	25	16	86	6·8	4·2	4·4	2·9	23·5	22·1
30 – 39	37	18	65	10·1	6·6	4·9	5·7	17·8	16·8
40 – 49	35	37	31	9·6	8·7	10·1	8·1	8·5	9·5
50 – 59	51	62	28	13·9	11·4	16·9	13·2	7·6	6·9
60 – 69	57	68	25	15·6	13·2	18·6	14·0	6·8	5·1
70 – 79	39	48	10	10·7	10·6	13·1	12·5	2·7	3·4
80 – 89	18	27	10	4·9	9·3	7·4	10·3	2·7	2·7
90 – 99	21	12	4	5·7	6·9	3·3	7·8	1·1	2·3
100 – 109	16	15	4	4·4	5·3	4·1	5·3	1·1	1·8
110 – 119	15	15	6	4·1	4·5	4·1	3·8	1·6	1·4
120 – 129	10	3	4	2·7	2·9	0·8	3·3	1·1	1·4
130 – 139	3	8	2	0·8	2·7	2·2	2·5	0·5	0·9
140 – 149	6	12	0	1·6	1·8	3·3	1·8	0·0	0·8
150 – 159	8	2	0	2·2	1·9	0·5	1·7	0·0	0·5
160 – 169	3	3	0	0·8	1·3	0·8	1·4	0·0	0·5
170 – 179	4	3	1	1·1	1·0	0·8	0·8	0·3	0·2
180 – 189	3	1	1	0·8	0·8	0·3	0·8	0·3	0·5
190 – 199	1	3	4	0·3	0·7	0·8	0·7	1·1	0·4
200 +	7	9	7	1·9	5·2	2·5	3·1	1·9	4·0
Days omitted	0	0	0	..	..	..	..	..	..

The average values of the diurnal inequality ranges for the year and seasons for the period 1932–42 (not the values of the range of the representative mean diurnal inequalities for this period) are given in Table IV, along with the 1944 values expressed as a percentage of the average values. The units employed are 1γ for force and 1′ for declination.

TABLE IV - AVERAGE RANGE OF DIURNAL INEQUALITY 1932-42, WITH 1944 VALUE AS PERCENTAGE

		All days			International quiet days			International disturbed days		
		V	H	D	V	H	D	V	H	D
		γ	γ	′	γ	γ	′	γ	γ	′
Year	1932-42	25.4	36.9	8.54	12.8	33.6	8.17	71.7	52.1	11.47
	1944(%)	77	70	81	87	76	83	83	63	84
Winter	1932-42	19.5	18.5	6.70	5.6	15.7	4.23	61.0	28.8	10.86
	1944(%)	107	71	89	93	53	87	120	114	89
Equinox	1932-42	32.1	42.7	10.02	13.9	38.8	9.56	94.5	72.8	14.56
	1944(%)	78	75	83	82	77	80	72	66	77
Summer	1932-42	29.8	58.0	11.66	20.8	49.2	11.37	71.6	82.2	12.69
	1944(%)	80	72	87	92	80	83	59	57	87

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

Irregular changes in declination.– In connexion 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. A range of 30′ is equivalent to a change of 144γ in the component of horizontal force perpendicular to the magnetic meridian.

Number of cases per month, 1944

Range interval	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
5–15′	100	77	129	100	44	39	15	59	72	85	20	76	816
15–30′	13	15	10	11	5	1	0	2	4	10	3	7	81
>30′	2	1	0	0	0	0	0	0	1	0	0	3	9

Hourly distribution, 1944

Range interval	Hour (G.M.T.) ending at																							
	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′	60	51	45	35	26	12	11	17	7	11	18	12	14	14	21	30	31	38	56	59	66	56	67	59
15–30′	4	5	5	1	1	2	2	1	1	1	0	0	0	0	2	6	5	6	4	11	8	6	4	6
>30′	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	1	1	1	0	0	0

Principal disturbances.– Particulars of the principal magnetic disturbances recorded during the year are given in Table V. Corresponding information for the same disturbances is given in the Lerwick section. The magnetograms for the most highly disturbed days are not reproduced in this volume, but photographic copies may be obtained on application to the Director, Meteorological Office, Air Ministry, Kingsway, London, W.C.2.

TABLE V - PRINCIPAL MAGNETIC DISTURBANCES RECORDED AT ESKDALEMUIR, 1944

No.	From	To	Horizontal force					Declination					Vertical force				
			Max.	Time	Min.	Time	Range	Max.	Time	Min.	Time	Range	Max.	Time	Min.	Time	Range
	d. h. m.	d. h.	γ	d. h. m.	γ	d. h. m.	γ	′	d. h. m.	′	d. h. m.	′	γ	d. h. m.	γ	d. h. m.	γ
1	Jan. 10 19	Jan. 19 5	607	10 22 52	400	14 17 23	207	36·4	19 12 59	-14·5	11 17 41	50·9	1171	11 17 32	1045	13 1 9	126
2	Feb. 7 6	Feb. 9 0	630	8 21 8	402	7 12 58	228	46·1	7 13 32	-2·0	7 19 55	48·1	1163	7 15 57	1007	8 0 58	156
3	Feb. 13 5	Feb. 16 2	606	13 23 22	413	14 5 42	193	52·2	14 5 59	8·0	15 17 53	44·2	1128	14 13 14	954	14 6 10	174
4*	Mar. 4 2 41	Mar. 11 2	603	8 19 5	423	4 9 33	180	39·4	4 10 6	3·5	10 18 15	35·9	1157	7 15 34	1040	9 2 11	117
5	Mar. 11 2	Mar. 14 21	616	12 21 52	427	12 15 31	189	33·2	13 2 14	9·9	12 19 23	23·3	1133	12 16 15	1043	13 2 40	90
6*	Mar. 18 7 0	Mar. 20 4	574	19 23 52	362	19 2 19	212	33·3	19 13 28	2·7	19 0 28	30·6	1135	18 20 42	877	19 2 19	258
7	Mar. 25 18	Mar. 31 5	608	26 23 41	318	27 4 7	290	46·8	27 4 39	5·5	29 2 9	41·3	1129	29 18 40	901	27 1 10	228
8	Apr. 1 11	Apr. 3 10	623	1 22 47	130	2 9 39	493	59·5	2 7 59	5·1	2 2 46	54·4	1188	2 18 58	1007	2 2 40	181
9	Apr. 4 5	Apr. 8 5	616	7 20 40	410	4 10 55	206	36·2	7 2 16	6·3	5 18 34	29·9	1140	7 19 3	1043	7 2 31	97
10	Apr. 15 13	Apr. 17 5	585	15 21 23	424	16 11 0	161	44·4	16 2 34	0·8	16 17 10	43·6	1205	16 17 8	1014	16 3 1	191
11	May 1 11	May 3 1	616	1 17 30	438	2 11 20	178	41·7	1 14 12	12·4	1 22 31	28·3	1242	1 16 18	1043	1 23 35	199
12	May 4 10	May 8 12	635	6 18 22	456	6 11 29	179	33·0	8 1 49	1·8	4 20 57	31·2	1140	4 18 50	1037	5 1 52	103
13	May 29 3	May 30 21	603	29 21 58	442	29 23 35	161	34·9	29 23 32	11·9	29 23 2	23·0	1129	29 17 0	991	29 23 53	138
14	June 21 22	June 24 5	611	22 15 23	461	23 7 25	150	32·1	22 15 23	12·4	22 0 25	19·7	1129	22 16 10	1040	22 4 44	89
15	Aug. 2 2	Aug. 4 4	612	2 18 57	394	3 2 20	218	32·1	3 12 40	-1·9	3 1 40	34·0	1106	3 15 10	807	3 2 42	299
16	Sept. 30 10	Oct. 1 3	627	30 19 53	442	30 20 25	185	36·8	30 14 51	-12·7	30 19 41	49·5	1171	30 15 32	1040	30 24 0	131
17	Oct. 10 15	Oct. 11 24	590	11 15 36	465	11 16 44	125	42·1	11 15 39	2·6	11 1 24	39·5	1178	11 16 44	955	11 3 6	223
18	Oct. 14 6	Oct. 15 8	540	15 0 40	301	14 23 18	239	30·7	15 3 2	-18·1	14 23 17	48·8	1148	14 16 9	909	14 24 0	239
19	Oct. 23 12	Oct. 24 6	618	23 22 14	470	23 18 46	148	31·5	23 16 37	-1·9	23 22 3	33·4	1171	23 18 6	1055	23 22 52	116
20*	Dec. 15 18 53	Dec. 18 24	1694	16 16 39	369	16 17 10	1325	121·3	16 15 45	-23·6	16 16 43	144·9	1640	16 16 38	937	16 15 38	703
21*	Dec. 26 10 24	Dec. 28 4	553	26 17 13	394	27 20 15	159	38·7	27 15 38	-10·9	27 23 3	49·6	1349	27 16 28	1026	28 0 32	323

Where the beginning of a disturbance has been marked by a "sudden commencement", the serial number is followed by an asterisk (*), and the time entered in the second column is that of the sudden commencement, estimated to the nearest minute. In other cases, the exact hour nearest the time at which disturbance may be regarded as having begun is entered in the second column. To the tabulated values of maximum and minimum the following have to be added:- H, 16000γ; D, 12°; V, 44000γ.

REMARKS ON MAGNETIC AND ALLIED PHENOMENA, 1944

General.- The year was one of minimum solar activity and magnetic disturbance. The (provisional) sunspot number was (10) as compared with 16·3 for 1943 and with 114·4 and 109·6 for the years of maximum, 1937 and 1938 respectively. Only one giant magnetic storm occurred during the year namely that of December 16.

In the notes which follow, the sunspot data have been extracted from an article in the "Observatory" for April 1945. The abbreviation C.M.P. is used for Central Meridian Passage.

JANUARY (0·48).- The month had few really quiet days but no great disturbances occurred.

There was moderate activity on the 1st in all three elements, the range of D just exceeding 30′. A period of slight disturbance followed broken only by an oscillation of 158γ in H between 4d.23h. and 5d.1h., and two quiet days on 7th–8th. A similar disturbance to that of 4th–5th gave ranges of 113γ in H, and 34·3′ in D between 22h. and 24h. on 10th. It introduced a moderately disturbed period lasting until 18th. Noteworthy ranges during this period were 45·5′, 41·5′ and 37·3′ in D on 11th, 14th and 15th. The rest of the month was but slightly disturbed with about four days verging on quiet.

FEBRUARY (0·41).- This month also was rather quiet but had larger individual disturbances than January.

Slight activity, with a quiescent period on 3rd, continued until 6th. A disturbance then set in at about midnight on 6th–7th. This gave fairly large ranges on 7th, 8th and

9th: 193γ in H and 48·1′ in D on 7th being due to general oscillation, but 179γ in H, 30·5′ in D on 8th and 32·3′ in D on 9th mainly due to isolated excursions. Movements decreased to slight in the course of the following three days. Larger variations however recurred from 13th to 15th reaching 177γ in H, 40·0′ in D and 174γ in V overall on 14th. The rest of the month was mainly quiet apart from moderate oscillations on 20th and slight ones on 21st.

MARCH (0·81).– March was moderately disturbed, more especially in H and V which both had ranges exceeding 200γ on two days in the course of the month.

Slight activity on the first three days was followed by a serrated trace with moderate range in H on 4th introduced by a "sudden commencement" at 4d.2h.41m. Marked disturbance followed from day to day until 13th. A double oscillation between 18h. and 20h. was mainly responsible for a range of 167γ in H on 8th. On 10th there was considerable general movement with ranges of 158γ in H and 31·5′ in D. This was repeated on 12th, giving a range of 189γ in H. Activity then decreased, but there was only one day (17th) of quiet conditions, a "sudden commencement" at 18d.7h. preluding a two–day disturbance. This had the characteristic night maximum and early morning minimum in V and gave ranges of 212γ in H, 30·6′ in D and 258γ in V on 18th–19th. An almost quiet day on 24th was followed by incipient activity on 25th evening which led to marked serration and oscillation on 26th–27th. The ranges reached 290γ in H, 39·1′ in D and 223γ in V between these days. Thereafter activity decreased and the month closed with an almost quiet day.

APRIL (0·70).– Apart from a marked disturbance in the first two days this was a rather quiet month like January and February.

The outstanding feature of the month's chief disturbance was the slowness of its large oscillations. There were two low values in H between 2d.7h. and 11h. and one high value at about 1d.23h., also three low and two high values in D between 1d.20h. and 2d.20h. It was a rather amorphous disturbance lasting from the 1st forenoon to 3rd morning and introducing a period of activity (mainly slight or moderate) which persisted with little interruption until 12th. The ranges reached 493γ in H on 1st–2nd, 54·4′ in D on 2nd and 181γ in V also on 2nd. Some other noteworthy ranges occurred in H namely 161γ on 3rd 4th, 157γ on 6th and 153γ on 7th. After a quiet interval from 13th to 15th moderate activity recurred from 15th afternoon to 17th morning and gave on 16th ranges of 43·6′ in D and 191γ in V with 161γ in H on 15th–16th. The most noticeable features were peaks in H and V accompanied by a marked bay in D at about 16d.17h. Subsequently conditions either slightly disturbed or verging on quiet lasted until the end of the month. There was a "sudden commencement" at 24d.1h.12m. and the traces were serrated during the rest of the day.

MAY (0·58).– Another quiet month which was characterized by a long period of semi-quiet or quiet days from 9th to 22nd and slightly disturbed days thence until 28th. There were three disturbances worthy of note.

The first disturbance started at about April 30d.23h. and was of the common type with evening maximum and early morning minimum in V. The chief oscillations occurred on the 1st between 14h. and 19h. Overall ranges were 178γ in H on 1st–2nd and 199γ in V on 1st. Activity fell off on 2nd, and the 3rd was almost quiet. Then followed four days of mainly moderate variations from 4th to 7th inclusive. There was a range of 179γ in H on 6th and one of 29·5′ in D (the maximum for the month) on 4th. Another disturbance of similar type to the first was recorded on 29th. It gave a range of 161γ in H and was followed by mainly slight changes on the remaining two days.

JUNE (0·67).– This was another quiet month, the first half of it remarkably quiet.

The only outstanding feature during the quiet period up to the 13th was a "sudden commencement" at 4d.20h.45m. It was followed by a somewhat serrated trace for a few hours. Moderate amorphous variations were recorded on 14th–15th, 22nd–23rd, and 29th, and a disturbance of the type with night maximum and early morning minimum in V on 26th–27th.

Apart from these the month comprised only slightly disturbed and semi-quiet days. The greatest ranges during the whole month were 150γ in H on 22nd–23rd, 22·6′ in D on 26th and 89γ in V on 15th and 22nd.

JULY (0·61).– July was entirely free from major disturbance: the greatest range was little over 100γ. Even on the days of greatest ranges the activity could hardly be called moderate. Nevertheless the only really quiet days were 24th and 25th.

AUGUST (0·68).– August, like June, had only one disturbance of which details need be given. This disturbance began indefinitely early on 2nd and its chief features, after some moderate oscillation, were marked oscillatory decreases in all three elements from about 2d.19h. to minima in the neighbourhood of 3d.2h. The values of D and V then recovered, but that of H remained low during the 3rd forenoon. The overall ranges were 218γ in H, 34·0′ in D and 299γ in V. Conditions were almost quiet again on 4th.

There was some moderate activity on 28th; otherwise the month was slightly disturbed, only four or five days being really quiet.

SEPTEMBER (0·70).– Conditions continued very quiet during September though not to the same degree as in the preceding three months. Again there was only one disturbance meriting detailed description. This began indefinitely at about 30d.10h. and terminated at October 1d.3h. There were three marked oscillations shown by all the traces at about 15h., 20h. and 24h. respectively. The ranges recorded were 185γ in H, 49·5′ in D and 131γ in V.

Moderate activity occurred on 2nd, and from 21st to 26th. On 21st the range of D reached 29·2′. There were four or five days which might be called really quiet.

OCTOBER (0·61).– Activity increased in October and there were three definite disturbances with ranges exceeding 150γ in one or more of the elements.

The first day of the month was affected by the concluding stages of the late September disturbance. Slight and decreasing oscillation continued thereafter until 5th which, although nearly quiet, had a period of pulsations from about 10h. to 14h. There was somewhat increased activity on the following day and a moderate bay in D between 21h. and midnight. This activity soon subsided however and the period from 9d.0h. to 10d.18h. was quiet. Then followed an unquiet period of eight days containing two definite disturbances on 10th–11th and 14th–15th.

The most marked features of the disturbance on 10th–11th was a minimum in V at 11d.3h.6m. and a maximum at 11d.16h.44m. Oscillations of D and H were moderate but somewhat amorphous in the first part of the disturbance but both elements had their maximum values at about the same time as that in V. The ranges were 125γ in H, 39·5′ in D and 223γ in V.

The disturbance of 14th–15th was of more pronounced and of more usual type. In V a slight maximum at about 14d.16h. was followed by a decided decrease between 21h. and midnight. The low values persisted till about 15d.4h. after which there was a decided recovery which restored values almost to normal in two hours. There were corresponding decreases in H and D but these elements showed more oscillation during the period of low values. The ranges were 251γ in H, 48·8′ in D and 239γ in V.

Subsequently there was quiet or only slight activity until 23rd–24th which had a disturbance of usual form, which is just worthy of note. There was a regular maximum in V at about 23d.18h. and a minimum soon after 22h. This minimum was accompanied by rather marked oscillations in H and D. The ranges were 148γ in H, 33·4′ in D and 116γ in V.

The remainder of the month was mainly rather quiet with only two or three moderate deviations in the traces of H and D.

NOVEMBER (0·27).– This was a remarkably quiet month. Its other main features were a few moderate oscillations on 5th, 10th and 20th and a few periods of noticeable daytime pulsation in H.

DECEMBER (0·68).– December also was remarkably quiet until 13th, the most marked feature up to this date being some moderate slow oscillation in H and a decided bay in D at about 2d.20h. Moderate activity on 13th–14th however was the precursor of the only great storm of the year. The storm started with a "sudden commencement" at 15d.18h.53m. and had its main phase from about 14h. to 17h. on 16th. This period included continuous large and rapid oscillations in all three elements, the oscillations in V being noticeably more decided than usual for Eskdalemuir. The range reached 1325γ in H, 144·9′ in D and 703γ in V. After an intervening quiet period from 16d.20h. to 17d.5h. there was fairly vigorous after-disturbance lasting until about 18d.2h. The concluding phase from 18d.2h. to about 18d.24h. had only slight disturbance. This storm was associated with a large sunspot group, just exceeding 1000 millionths of the sun's hemisphere, whose C.M.P. occurred on 14d.3h.

From 18th slight activity alternated with quiet periods until 26th. On that date, at 10h.24m. there was a "sudden commencement". Conditions remained only slightly disturbed however until about noon on 27th when the V trace began a sweep up to a decided peak which was reached at 16h.28m. After the sharp peak there occurred a fairly uniform descent to the minimum at 28d.0h.32m. The range in V was 323γ. In H and D the disturbance was smaller than in V, their ranges being respectively 152γ and 49·6′. The principal feature in them was a period of low values from about 27d.16h. to about 28d.3h. There were a few moderate oscillations in H and D during the remaining days of the month but no decided new activity.

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

80 ESKDALEMUIR: h_b(height of barometer cistern above M.S.L.) = 237·3 m. 1944

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	millibars																	
1	90·3	83·7	86·2	89·6	78·2	81·4	72·7	*66·6*	*70·2*	91·4	84·5	88·9	92·2	83·2	90·0	87·0	83·2	84·2
2	84·6	79·3	81·2	80·9	73·1	77·8	80·3	71·3	75·5	84·5	70·4	75·2	83·2	70·8	75·1	88·6	82·4	86·4
3	86·3	80·0	81·5	78·6	*63·6*	70·7	87·0	80·2	83·6	70·4	*66·2*	*67·8*	86·3	73·7	81·6	88·6	78·0	85·1
4	02·9	86·3	96·9	97·3	78·4	87·3	94·6	87·0	89·0	78·7	68·7	73·8	85·8	67·7	74·2	78·0	66·2	70·6
5	02·8	91·0	97·3	03·5	97·3	00·9	04·0	94·6	99·9	89·8	78·7	83·9	84·6	*66·2*	*72·2*	76·0	66·3	71·2
6	91·0	86·5	87·7	01·2	87·3	94·4	09·5	04·0	06·6	93·2	89·8	92·1	97·1	84·6	92·0	80·2	72·9	75·2
7	91·2	85·9	89·4	87·3	80·5	82·6	14·0	09·2	11·4	92·5	88·4	90·2	98·3	97·0	97·7	84·2	80·2	83·0
8	85·9	71·6	76·4	92·2	83·5	88·6	*14·3*	11·0	*13·1*	88·4	75·5	82·0	98·5	97·5	98·0	82·2	75·0	78·8
9	78·3	72·6	74·9	92·2	77·3	83·9	11·0	98·5	04·1	81·9	72·7	76·1	98·5	94·6	96·8	75·0	69·1	71·9
10	93·5	78·3	87·7	96·3	81·4	88·9	98·5	90·1	95·8	85·0	81·9	83·9	94·6	92·1	93·2	77·4	69·6	73·8
11	92·9	84·7	87·8	97·0	92·0	94·7	91·2	86·2	87·9	83·7	82·4	83·2	93·0	91·3	92·1	77·9	73·1	75·2
12	85·0	81·3	83·6	94·6	91·8	93·2	87·6	70·0	80·5	84·3	82·9	83·6	91·4	86·9	89·0	86·5	77·9	83·4
13	87·9	72·0	78·3	94·2	86·0	89·7	80·1	69·2	74·5	83·4	79·0	80·6	95·8	87·2	90·0	85·6	78·4	80·1
14	02·9	87·9	96·2	96·7	87·6	93·9	85·6	79·0	81·4	79·1	73·8	75·9	*03·6*	95·8	00·8	90·2	78·8	83·6
15	*05·9*	02·2	*04·9*	95·6	85·9	90·8	87·0	85·6	86·3	73·9	72·3	73·0	*03·6*	95·5	*01·3*	91·9	81·4	88·1
16	05·1	03·3	04·4	96·3	86·3	91·3	90·4	85·7	87·0	78·1	72·0	73·9	95·5	89·4	92·3	94·1	80·1	84·5
17	03·8	95·5	97·9	03·1	96·3	00·1	93·8	90·4	92·8	85·3	78·1	82·4	96·2	92·4	94·7	97·6	94·1	96·7
18	95·6	86·9	90·4	04·0	02·5	03·3	92·7	79·0	86·9	87·5	84·9	86·3	92·4	88·6	90·4	97·8	95·6	96·2
19	92·3	89·4	91·5	06·0	02·8	03·9	93·2	78·9	87·9	84·9	73·5	78·4	88·7	85·9	87·1	99·6	97·7	98·5
20	91·9	79·4	85·8	*12·5*	06·0	*09·9*	93·3	89·5	91·3	91·0	77·3	82·6	89·5	86·1	87·8	*01·2*	99·6	*00·5*
21	84·9	73·7	81·9	11·8	07·0	09·4	92·2	90·5	91·2	95·8	89·0	91·2	91·0	87·5	88·6	00·8	97·1	99·3
22	73·7	57·1	66·3	07·3	99·1	02·9	90·6	88·2	89·4	00·4	95·8	98·4	94·5	91·0	92·6	97·1	90·4	92·8
23	75·7	54·9	60·7	01·1	97·4	98·9	93·6	89·3	90·9	97·0	93·2	95·6	95·5	94·2	94·8	92·3	91·1	91·7
24	77·5	*35·6*	60·2	02·9	01·0	02·2	99·1	93·6	96·0	96·6	90·2	92·3	95·0	88·2	92·7	91·8	79·9	86·4
25	78·3	39·0	*56·8*	02·1	84·0	94·6	00·8	98·9	99·9	06·7	96·6	03·0	88·2	82·7	85·7	79·9	74·7	76·8
26	82·2	76·6	79·7	84·0	75·8	77·5	98·9	97·3	98·1	*07·0*	04·9	*06·0*	90·2	84·5	87·2	74·7	68·4	71·7
27	89·4	77·5	83·2	77·4	73·7	75·1	98·8	93·5	96·1	04·9	99·1	01·6	99·8	90·2	95·7	68·4	*63·5*	*64·6*
28	94·0	88·7	91·1	78·2	73·6	76·8	93·5	85·1	88·5	01·0	99·1	00·3	00·0	98·6	99·3	74·3	63·6	67·5
29	93·9	91·0	92·4	73·6	66·5	*68·7*	85·1	80·3	82·1	00·0	94·3	98·3	98·8	95·6	97·2	78·3	74·3	77·3
30	95·9	92·9	94·5				80·8	78·7	79·6	95·7	91·9	94·1	96·5	93·5	95·0	81·1	78·1	79·8
31	94·3	89·6	91·5				91·2	79·3	84·5				94·5	87·0	91·7			
Mean	90·64	79·82	85·10	95·09	86·75	90·81	93·72	87·12	90·39	89·74	83·57	86·47	93·96	87·73	90·86	85·94	79·36	82·49

	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	80·4	77·8	78·6	95·9	94·1	95·3	80·2	70·0	76·7	96·4	88·9	91·1	93·9	85·3	90·5	87·5	67·9	76·9
2	81·5	76·3	79·5	95·2	93·1	94·3	86·6	78·4	81·2	96·4	83·7	90·8	85·3	75·3	80·3	76·4	68·6	72·6
3	78·6	75·1	77·2	97·7	94·4	95·5	87·1	72·4	81·7	88·5	83·3	85·9	75·3	71·3	72·5	76·2	62·5	68·7
4	77·5	74·3	75·5	*01·0*	97·7	*99·6*	72·4	66·4	69·1	99·8	88·5	95·1	72·1	60·8	67·1	67·0	61·1	64·9
5	81·2	76·5	77·9	00·8	96·9	98·7	72·4	*65·0*	*67·0*	01·7	97·8	98·9	75·8	*58·7*	66·7	67·7	65·7	66·8
6	83·0	80·4	81·8	97·3	93·0	94·8	82·0	72·4	78·9	*02·6*	97·6	*00·7*	75·8	60·7	70·5	66·3	54·8	60·2
7	81·1	75·5	77·7	93·2	87·5	90·3	81·2	79·3	79·7	97·6	90·8	93·2	74·1	61·3	65·9	54·8	*46·3*	*49·5*
8	81·2	78·8	80·2	87·5	82·4	84·2	84·8	77·2	79·7	91·6	89·7	90·7	74·8	70·8	73·0	65·8	48·2	58·7
9	79·1	*68·7*	*72·0*	82·5	78·7	81·4	96·2	84·8	91·1	90·9	84·2	88·0	93·7	72·7	84·1	72·6	65·7	69·6
10	78·9	69·2	73·4	82·3	77·1	80·3	01·6	96·2	99·2	84·2	75·1	79·4	*98·8*	93·7	*97·4*	71·5	51·1	60·1
11	87·6	78·9	84·2	86·4	80·3	82·5	*03·1*	01·6	*02·3*	75·1	53·2	65·0	97·7	93·9	96·3	60·6	51·1	53·5
12	88·3	85·2	87·3	94·0	86·4	90·2	03·0	00·2	01·7	71·3	63·8	66·0	93·9	82·5	87·1	89·1	60·6	76·3
13	85·2	81·0	82·1	96·6	93·8	94·9	00·4	91·8	96·2	70·9	52·1	62·7	82·5	67·6	75·8	93·6	89·1	91·9
14	82·4	79·0	81·3	97·4	92·9	95·7	91·8	83·3	87·5	71·2	52·1	62·6	74·6	61·7	67·4	90·8	80·1	85·0
15	86·2	79·1	81·1	92·9	82·8	87·8	83·3	77·6	79·9	72·6	67·0	70·9	81·1	74·4	77·3	80·1	73·5	76·6
16	93·6	86·2	89·9	82·8	78·8	79·9	97·2	79·0	88·3	67·0	59·7	62·0	87·7	81·1	84·5	73·5	57·8	68·2
17	94·5	92·5	93·5	80·0	77·0	79·2	99·4	97·2	98·6	62·0	49·9	55·9	83·9	65·9	71·7	64·2	46·8	53·9
18	93·7	91·0	92·2	77·0	73·4	74·6	99·5	96·5	98·5	56·7	*49·5*	*51·5*	73·3	66·0	70·4	82·2	64·2	72·5
19	91·9	89·9	90·9	82·0	74·5	77·6	96·5	88·3	92·3	80·4	56·7	72·4	67·9	62·6	64·3	92·8	82·2	87·8
20	91·1	89·0	90·3	89·9	82·0	86·2	92·1	87·0	88·9	77·7	60·1	66·2	83·2	61·0	68·7	95·1	92·8	93·8
21	89·6	85·7	87·1	95·4	89·9	92·9	93·6	88·0	92·8	89·5	70·3	82·4	92·2	80·4	88·3	01·1	94·2	99·1
22	89·8	85·5	87·0	94·9	91·3	92·9	88·0	77·2	81·5	90·0	79·6	87·4	80·4	63·0	68·4	10·1	00·3	04·9
23	92·2	89·8	91·1	91·3	83·0	86·3	81·9	75·4	79·9	85·5	76·5	79·6	64·4	61·3	63·0	*10·8*	08·7	*10·0*
24	91·9	91·1	91·5	89·8	85·4	88·0	87·1	74·1	80·1	95·1	85·5	91·7	63·7	61·6	*62·5*	08·7	02·9	05·7
25	91·4	83·9	88·0	98·7	89·3	93·8	87·4	75·7	82·0	95·8	94·0	95·0	73·7	62·1	67·3	02·9	96·7	98·9
26	83·9	75·8	78·4	98·6	91·2	96·0	84·0	78·6	81·0	94·0	76·6	85·3	84·9	73·7	77·5	99·7	90·1	96·0
27	81·2	75·0	77·2	91·2	75·1	84·4	88·2	76·9	80·5	79·9	69·7	76·2	90·6	75·7	86·1	94·7	86·5	89·6
28	84·4	81·0	83·3	81·0	70·4	75·6	90·5	84·5	88·9	76·9	58·9	70·9	80·1	68·4	72·0	06·2	94·7	02·2
29	83·7	80·1	81·5	81·0	76·7	79·4	87·7	79·2	81·9	89·3	76·9	82·4	87·8	80·1	83·9	05·9	96·7	01·3
30	91·5	83·7	87·3	76·7	67·1	71·9	89·6	87·7	88·9	98·6	89·3	95·3	92·3	87·5	90·2	00·0	96·0	97·5
31	*95·9*	91·5	*93·8*	70·0	*65·2*	*66·6*				97·8	91·6	93·9				05·8	00·0	03·5
Mean	86·21	81·53	83·64	89·71	83·92	86·81	89·63	82·06	85·84	85·39	74·60	80·29	81·85	71·39	76·39	86·25	76·03	81·16
									Annual	89·00	81·16	85·01						

PRESSURE AT STATION LEVEL

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

81 ESKDALEMUIR: h_b = 237·3 m. 1944

	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.	*85·55*	85·49	85·42	85·25	85·12	85·00	84·77	84·74	84·96	85·07	85·22	85·28	85·05	84·79	*84·61*	84·61	84·87	85·00	85·12	85·23	85·26	85·31	85·25	85·53	85·53	85·10
Feb.	*91·68*	91·52	91·25	91·00	90·80	90·69	90·59	90·62	90·75	90·70	90·84	90·86	90·80	90·43	90·29	*90·23*	90·30	90·70	90·91	91·05	91·02	90·91	90·97	90·92	90·89	90·81
Mar.	90·06	90·04	90·03	*89·91*	89·94	89·98	90·07	90·28	90·48	90·68	90·64	90·66	90·58	90·44	90·22	90·18	90·03	90·17	90·37	90·63	90·78	*90·92*	90·90	90·90	90·85	90·39
Apr.	86·71	86·66	86·58	86·46	86·34	86·34	86·46	86·59	86·71	86·71	86·65	86·50	86·45	86·38	86·30	86·15	86·07	*85·93*	86·07	86·30	86·63	86·74	86·74	86·74	*86·75*	86·47
May	91·17	91·01	90·85	90·72	90·66	90·72	90·81	90·93	91·07	91·01	90·95	90·90	90·87	90·88	90·73	90·64	90·52	*90·49*	90·59	90·73	90·93	91·17	91·17	91·16	91·01	90·86
June	*82·92*	82·79	82·57	82·49	82·36	82·37	82·46	82·60	82·66	85·54	82·51	82·50	82·49	82·48	82·34	82·24	82·14	*82·10*	82·13	82·29	82·50	82·72	82·83	82·74	82·68	82·49
July	83·80	83·67	83·54	83·41	*83·33*	83·38	83·46	83·63	83·67	83·63	83·52	83·53	83·57	83·51	83·47	83·53	83·37	83·38	83·45	83·59	83·85	84·14	84·30	*84·37*	84·32	83·64
Aug.	*87·48*	87·28	86·98	86·74	86·61	86·60	86·74	86·84	86·90	86·87	86·89	86·94	86·88	86·80	86·78	86·64	86·56	*86·45*	86·51	86·62	86·92	86·97	86·95	86·79	86·65	86·81
Sept.	85·68	85·66	85·54	85·39	*85·28*	85·40	85·65	85·94	86·14	86·14	86·13	86·09	85·98	85·86	85·68	85·50	85·42	85·52	85·66	85·98	86·14	86·27	*86·37*	86·33	86·32	85·84
Oct.	80·26	80·21	80·20	80·20	80·15	80·15	80·38	80·58	*80·73*	80·71	80·69	80·63	80·41	80·13	79·95	*79·80*	79·83	79·98	80·11	80·25	80·33	80·36	80·41	80·44	80·41	80·29
Nov.	76·65	76·43	76·22	76·05	75·79	75·82	*75·77*	75·97	76·12	76·10	76·32	76·50	76·46	76·39	76·45	76·59	76·72	76·79	*76·87*	76·81	76·73	76·69	76·65	76·57	76·43	76·39
Dec.	81·06	80·92	80·98	80·93	80·78	80·86	*80·76*	80·93	81·13	81·30	81·31	81·31	81·11	81·00	80·83	80·84	81·01	81·12	81·29	81·49	81·60	81·67	81·65	*81·70*	81·65	81·16
Annual	85·25	85·13	85·00	84·87	84·75	84·77	84·82	84·96	85·10	85·12	85·14	85·13	85·05	84·92	84·80	84·74	*84·73*	84·79	84·91	85·07	85·22	85·32	*85·34*	*85·34*	85·28	85·01

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.

82 ESKDALEMUIR: h_b = 237·3 m. 1944

	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.	*14·72*	14·65	14·57	14·39	14·25	14·13	13·89	13·86	14·09	14·17	14·28	14·31	14·05	13·75	*13·57*	13·59	13·89	14·05	14·20	14·32	14·36	14·44	14·39	14·68	14·70	14·19
Feb.	*21·35*	21·18	20·90	20·62	20·42	20·30	20·20	20·22	20·33	20·22	20·26	20·22	20·11	19·71	19·55	*19·50*	19·61	20·11	20·38	20·57	20·57	20·48	20·64	20·55	20·52	20·31
Mar.	19·55	19·56	19·58	19·47	19·51	19·57	19·68	19·85	19·95	20·03	19·82	19·72	19·59	19·39	19·13	19·12	*19·02*	19·24	19·55	19·93	20·15	20·33	20·37	*20·41*	20·39	19·70
Apr.	15·72	15·70	15·62	15·48	15·36	15·37	15·46	15·50	15·62	15·43	15·27	15·03	14·95	14·86	14·76	14·61	14·85	*14·44*	14·67	15·04	15·44	15·61	15·66	*15·78*	15·71	15·24
May	*20·31*	20·17	20·01	19·90	19·85	19·90	19·88	19·85	19·88	19·72	19·57	19·47	19·38	19·37	19·17	19·07	*18·98*	19·01	19·19	19·43	19·77	20·11	20·18	20·25	20·15	19·68
June	*11·45*	11·33	11·13	11·09	10·97	10·94	10·92	10·96	10·91	10·68	10·59	10·51	10·46	10·44	10·30	10·18	10·09	*10·08*	10·18	10·44	10·77	11·06	11·25	11·20	11·19	10·74
July	12·04	11·93	11·82	11·69	11·62	11·65	11·66	11·75	11·69	11·57	11·38	11·35	11·35	11·25	11·20	11·26	*11·09*	11·13	11·29	11·50	11·86	12·26	12·49	*12·59*	12·57	11·65
Aug.	*15·86*	15·69	15·39	15·18	15·04	15·04	15·13	15·09	15·01	14·85	14·79	14·79	14·67	14·55	14·52	14·38	14·31	*14·24*	14·37	14·60	15·05	15·18	15·23	15·11	15·02	14·90
Sept.	14·42	14·43	14·33	14·17	14·08	14·21	14·46	14·67	14·72	14·59	14·50	14·38	14·21	14·05	13·86	13·68	*13·66*	13·82	14·06	14·49	14·73	14·90	15·05	15·04	*15·09*	14·37
Oct.	09·05	09·02	09·03	09·05	09·01	09·02	09·26	09·47	*09·54*	09·37	09·25	09·19	08·81	08·51	08·31	*08·18*	08·27	08·52	08·74	08·93	09·05	09·10	09·18	09·23	09·21	08·96
Nov.	05·61	05·38	05·18	05·02	04·75	04·77	*04·74*	04·97	05·13	05·07	05·19	05·29	05·23	05·13	05·21	05·39	05·57	05·69	*05·79*	05·73	05·66	05·62	05·60	05·51	05·38	05·31
Dec.	10·18	10·04	10·12	10·07	09·93	10·02	09·92	10·10	10·32	10·49	10·51	10·40	10·17	10·01	*09·84*	09·90	10·11	10·25	10·43	10·66	10·76	10·84	10·83	*10·90*	10·83	10·30
Annual	14·17	14·08	13·96	13·83	13·72	13·73	13·75	13·85	13·91	13·84	13·77	13·70	13·57	13·41	13·27	*13·22*	13·25	13·36	13·56	13·79	14·00	14·15	14·22	*14·25*	14·22	13·76

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.

83 ESKDALEMUIR: Louvered hut: h_t = 0·9 m. 1944

	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.	76·60	76·67	76·65	76·68	76·76	76·69	76·81	76·78	76·78	76·97	77·41	77·73	78·01	78·18	*78·29*	78·07	77·71	77·52	77·27	77·18	77·11	76·90	76·76	76·72	*76·57*	77·18
Feb.	74·00	*73·83*	73·95	73·97	73·91	73·97	73·98	74·07	74·26	74·83	75·72	76·35	76·74	*77·03*	77·01	76·97	76·68	75·82	75·31	74·92	74·59	74·44	74·11	73·91	73·87	75·01
Mar.	74·86	74·60	74·34	74·25	74·15	74·01	*73·86*	74·28	75·17	76·42	77·91	79·00	79·54	80·07	*80·29*	80·04	79·51	78·76	77·65	76·85	76·17	75·88	75·29	74·93	74·73	76·57
Apr.	78·23	78·06	*77·99*	78·10	78·11	78·05	78·32	79·18	80·14	81·07	81·91	82·75	83·01	83·25	*83·34*	83·26	83·13	82·78	81·87	80·67	80·04	79·57	79·14	78·96	78·70	80·47
May	78·27	78·05	77·93	77·79	*77·67*	77·80	78·81	80·20	81·31	82·27	83·11	83·65	84·20	84·48	84·78	*84·91*	84·62	84·07	83·23	82·25	80·98	80·08	79·49	78·74	78·26	81·19
June	81·69	81·54	81·21	80·85	*80·76*	81·16	82·17	83·14	84·27	85·30	85·92	86·59	86·99	87·05	87·05	*87·16*	87·08	86·74	86·07	85·11	84·00	83·39	82·61	82·26	81·77	84·17
July	84·52	84·23	84·07	83·98	*83·94*	84·14	84·73	85·58	86·59	87·34	88·13	88·50	88·88	89·30	89·29	89·31	*89·42*	89·12	88·34	87·59	86·65	85·70	85·08	84·78	84·57	86·63
Aug.	84·20	83·83	83·77	83·40	83·39	*83·38*	83·94	85·20	86·63	87·82	88·69	89·23	89·80	90·12	*90·25*	90·17	90·05	89·62	88·86	87·74	86·35	85·61	85·00	84·56	84·09	86·73
Sept.	80·41	80·13	79·93	79·94	79·78	*79·71*	79·79	80·63	81·98	83·21	84·05	84·82	85·35	85·64	*85·78*	85·69	85·11	84·51	83·56	82·59	82·00	81·54	81·16	80·93	80·36	82·43
Oct.	78·51	78·36	78·16	77·91	77·88	77·86	77·76	*77·71*	78·53	79·64	80·71	81·62	82·17	82·39	*82·50*	82·29	81·67	80·71	79·95	79·55	79·15	79·05	78·74	78·56	78·44	79·64
Nov.	75·99	76·06	75·91	75·81	75·78	75·84	75·71	75·47	*75·39*	75·81	76·79	77·57	77·77	*78·00*	77·85	77·51	77·10	76·64	76·46	76·49	76·34	76·26	76·15	76·16	76·06	76·45
Dec.	75·79	75·60	75·59	75·51	75·43	75·36	75·31	75·27	*75·19*	75·23	75·65	76·10	76·35	*76·73*	76·68	76·27	75·99	75·72	75·62	75·45	75·51	75·45	75·36	75·26	75·37	75·67
Annual	78·59	78·43	78·31	78·20	*78·15*	78·18	78·45	78·98	79·71	80·51	81·35	82·01	82·42	82·71	*82·78*	82·66	82·36	81·86	81·20	80·55	79·93	79·51	79·09	78·83	78·57	80·20

The initial 2 or 3 of the readings is omitted, i.e. 275·00 degrees Absolute is printed 75·00.

Add 0·16° to obtain temperature in degress Kelvin where $T(°K.) = t(°C.) + 273·16$.

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 $T(°K.) = t(°C.) + 273·16$.

84 ESKDALEMUIR: Louvered hut: h_t (height of thermometer bulb above ground) = 0·9 m. 1944

	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	81·9	80·1	*81·1*	82·1	78·3	80·5	76·0	69·0	72·4	80·3	*65·5*	*74·4*	87·1	81·4	83·4	86·0	80·7	83·3
2	82·5	78·0	80·7	*84·2*	80·0	*81·7*	76·3	68·6	72·3	76·1	73·4	75·1	83·2	75·9	81·5	88·2	80·8	83·5
3	78·1	73·9	76·4	80·1	74·1	77·7	75·0	67·4	71·7	81·0	76·1	78·8	85·5	71·4	78·9	85·2	82·0	83·7
4	72·9	67·7	73·5	77·0	70·6	73·1	76·7	67·8	72·4	83·6	76·9	79·9	82·0	*71·1*	*75·8*	85·5	80·0	83·5
5	79·2	67·8	76·0	75·9	65·0	70·8	79·4	73·0	75·3	80·3	76·1	78·0	83·7	72·2	76·8	85·3	78·7	*81·7*
6	81·2	79·0	80·1	81·0	64·6	75·5	79·5	73·6	76·0	86·8	73·0	80·0	82·1	72·4	77·7	86·8	78·9	82·2
7	79·1	73·7	76·9	82·0	74·6	78·3	78·9	73·7	76·2	84·2	72·9	78·0	85·5	71·7	79·6	88·1	80·3	84·6
8	80·2	72·5	77·3	78·9	73·9	75·9	82·1	69·4	75·0	88·3	70·6	79·5	85·1	76·0	81·2	90·6	77·0	84·4
9	76·2	70·5	74·7	81·0	73·0	77·3	84·9	66·5	75·3	84·4	76·0	80·7	83·1	79·5	81·1	86·0	81·5	83·6
10	71·9	*65·0*	*68·1*	78·0	72·6	75·1	81·8	77·3	79·1	82·9	73·9	79·0	87·0	79·1	82·6	87·4	77·4	83·0
11	73·7	65·4	71·1	79·1	67·6	73·9	83·8	78·0	79·7	82·4	79·1	80·4	89·3	76·2	83·2	89·0	*74·4*	82·2
12	80·6	73·7	77·7	76·6	69·5	73·9	83·2	78·8	80·6	85·8	75·0	80·1	90·0	75·6	82·8	88·2	80·0	83·0
13	82·0	76·6	79·8	77·6	74·7	76·1	80·1	72·3	76·2	86·5	75·4	81·8	87·7	74·5	81·0	87·7	79·5	83·0
14	80·9	76·3	78·8	79·9	71·0	75·4	78·0	65·0	73·3	87·1	79·6	82·9	85·0	74·0	79·8	88·0	78·8	83·0
15	79·3	68·8	75·9	79·0	69·1	74·8	78·3	*61·5*	*71·6*	85·3	80·0	82·3	80·5	72·8	77·1	85·6	79·5	82·8
16	77·9	68·2	73·3	80·5	73·3	76·7	86·1	73·0	78·9	83·7	79·6	81·0	80·6	75·3	77·3	90·2	78·9	84·5
17	80·0	77·8	79·2	78·4	73·0	75·1	79·8	73·5	77·1	81·8	78·7	80·1	84·1	74·9	78·9	91·5	77·3	85·7
18	80·0	78·4	79·1	75·4	72·5	73·9	80·5	77·3	79·0	83·9	76·9	80·2	81·2	75·6	79·5	89·6	82·9	86·5
19	78·8	72·7	74·8	75·5	72·2	73·4	80·3	73·6	76·9	81·9	78·7	81·1	80·3	78·1	79·2	94·0	79·7	*88·3*
20	79·3	75·0	77·2	75·5	72·2	73·8	81·0	75·5	78·9	85·0	76·2	80·4	84·0	75·8	79·3	91·0	79·5	85·7
21	78·9	74·7	77·2	78·5	74·5	75·9	80·0	76·7	78·5	85·0	79·0	80·9	85·9	75·2	80·3	92·8	79·9	85·9
22	81·3	77·4	79·3	78·4	74·5	75·8	80·6	76·3	78·2	85·6	77·3	81·0	86·5	73·5	79·8	*94·1*	77·4	86·4
23	77·4	71·3	74·9	78·3	74·9	76·4	80·5	77·1	78·4	84·6	80·4	82·6	86·1	71·5	80·7	92·2	80·1	86·6
24	78·8	67·4	73·6	79·1	75·0	76·4	85·6	76·8	80·3	84·7	77·7	81·5	86·9	72·8	80·9	90·1	77·8	84·5
25	78·4	74·7	76·6	78·9	72·4	75·6	79·6	77·6	78·4	85·9	76·4	81·0	87·5	81·9	84·3	86·2	80·0	82·7
26	82·6	72·7	77·5	73·7	70·0	72·2	87·0	75·3	80·4	87·7	75·6	82·7	86·6	82·3	84·2	86·8	78·6	83·5
27	82·8	78·0	80·6	72·3	68·3	70·0	88·7	74·9	*81·1*	85·9	77·9	81·8	89·0	82·6	85·5	88·3	77·8	82·6
28	*82·9*	78·9	80·6	74·1	*61·8*	*68·9*	*89·5*	68·9	78·6	87·0	77·4	81·7	93·0	80·9	86·8	86·1	80·6	82·5
29	81·7	79·0	80·2	76·2	63·0	71·4	81·1	68·9	75·6	87·2	80·2	83·3	*97·0*	77·9	*88·7*	89·5	82·5	86·1
30	82·2	79·2	80·8				80·0	67·4	73·7	*89·0*	80·6	*84·0*	93·2	81·9	86·6	91·4	83·5	86·4
31	80·9	78·6	79·5				81·0	65·0	72·4				85·4	81·2	82·9			
Mean	79·6	74·0	77·2	78·2	71·6	75·0	81·1	72·2	76·6	84·5	76·5	80·5	85·9	76·3	81·2	88·7	79·5	84·2

	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	89·8	82·8	85·9	96·3	83·7	89·6	*90·8*	79·9	85·1	83·5	72·8	79·2	81·3	73·5	77·6	83·2	77·0	80·7
2	90·6	85·0	87·1	95·8	83·8	89·1	84·8	76·5	82·2	82·7	*68·0*	76·9	80·9	74·0	78·1	77·0	73·3	74·6
3	91·0	85·2	87·5	96·2	82·4	88·5	83·9	72·7	79·0	83·4	78·6	80·6	81·7	75·4	78·7	80·1	74·7	76·6
4	88·5	85·0	86·5	*98·8*	80·2	90·0	86·8	80·3	83·5	83·3	78·0	80·5	83·4	76·0	80·1	78·5	73·9	76·1
5	90·0	78·8	85·7	97·0	82·6	89·8	85·3	82·7	83·9	85·3	72·7	79·4	83·1	75·0	78·7	76·5	72·9	74·4
6	92·5	*77·1*	87·0	97·1	82·0	*90·2*	85·2	80·6	82·4	*88·3*	70·0	78·7	78·8	75·8	79·0	76·2	72·7	74·1
7	90·9	85·0	88·0	96·7	80·3	88·9	81·4	78·1	80·4	84·6	76·3	81·7	78·3	73·7	75·8	74·1	72·4	73·2
8	92·2	81·6	87·3	92·6	83·2	88·1	83·1	75·4	78·8	85·7	81·4	*82·9*	77·6	70·1	74·4	74·9	72·0	73·4
9	88·0	81·1	84·9	87·4	82·0	85·7	85·8	74·0	79·3	85·1	80·6	82·2	76·5	70·9	73·8	75·8	70·1	74·2
10	91·2	81·5	86·4	90·5	86·0	88·7	85·2	*70·9*	*78·2*	83·7	80·4	81·9	76·9	70·7	73·9	73·2	68·7	71·6
11	89·1	82·7	85·7	91·0	82·5	88·3	87·8	72·6	79·8	85·0	80·3	82·6	78·1	73·2	74·7	75·7	69·0	73·1
12	89·7	82·7	85·1	91·0	79·0	85·0	87·9	74·8	81·5	85·1	74·2	80·2	76·3	73·0	74·8	77·2	71·0	75·2
13	92·2	84·3	87·5	90·6	77·5	84·4	90·0	76·3	83·1	81·8	73·6	78·7	79·3	74·1	75·9	74·4	66·8	*69·9*
14	87·4	84·5	85·7	91·7	*77·3*	84·4	89·6	79·6	84·8	83·5	76·0	80·0	77·8	73·7	75·3	75·8	73·2	74·5
15	88·9	79·0	*84·2*	93·6	78·9	86·4	90·2	84·7	84·9	83·9	75·9	79·3	76·8	73·7	74·5	75·0	73·2	74·3
16	90·9	82·1	87·3	90·9	82·9	87·2	88·9	79·4	84·4	82·5	78·0	80·3	79·0	74·1	76·0	78·4	74·1	75·4
17	*95·6*	84·6	*89·9*	89·8	85·4	87·9	88·6	76·0	83·0	84·4	76·8	80·1	80·5	75·4	77·3	81·9	77·6	79·4
18	90·3	82·0	85·8	90·7	87·1	88·5	90·0	80·2	85·2	82·9	79·5	80·7	82·0	78·3	79·6	78·9	74·8	77·3
19	92·1	80·5	86·3	92·1	83·0	87·0	88·9	77·7	84·2	85·4	74·7	80·3	79·7	77·6	78·7	79·7	76·4	78·2
20	89·1	83·0	85·5	87·1	78·4	83·8	89·2	80·5	85·4	81·5	76·0	79·8	78·7	74·0	77·3	80·3	79·4	79·8
21	86·6	82·2	84·3	84·5	78·4	*81·8*	90·0	80·0	*87·6*	83·9	80·0	82·3	79·1	70·8	74·2	80·4	75·9	78·7
22	88·5	83·5	85·5	88·7	80·4	83·9	87·9	80·4	83·8	83·3	79·6	81·3	*84·0*	73·5	77·3	*83·8*	79·5	*81·6*
23	89·1	83·3	86·1	88·6	83·3	85·5	86·6	76·7	81·5	82·1	76·1	79·1	*84·0*	77·0	*81·2*	81·3	78·3	79·8
24	90·7	80·9	85·9	92·7	84·1	88·6	82·7	75·3	80·1	83·4	72·8	78·0	79·0	73·9	76·4	79·3	78·1	78·7
25	91·3	79·7	86·5	92·0	84·9	88·1	86·0	73·6	80·5	81·8	72·4	78·0	76·3	70·0	73·7	79·6	74·2	77·2
26	91·4	85·0	87·6	92·7	83·9	88·2	85·9	80·0	82·5	82·5	77·9	80·4	73·7	*66·0*	*70·0*	78·8	72·4	76·1
27	94·0	84·5	88·7	86·8	82·6	85·5	85·1	77·7	81·7	80·6	72·0	76·4	74·8	67·0	71·6	78·3	71·5	76·2
28	89·0	83·4	86·2	87·4	80·7	84·9	83·8	76·7	80·9	79·3	73·0	*76·0*	82·7	74·8	78·8	74·7	66·7	70·7
29	93·2	83·5	87·2	89·0	80·3	84·4	87·4	81·6	84·8	81·7	74·6	77·4	79·3	75·6	78·3	77·4	68·6	74·2
30	95·1	85·6	89·2	89·0	79·7	83·8	86·2	79·5	82·2	83·4	71·8	77·6	81·8	78·8	80·4	78·7	73·7	76·1
31	94·3	85·0	89·2	86·7	80·0	82·8				80·2	72·1	76·7				74·6	*65·2*	70·7
Mean	90·7	82·7	86·6	91·5	81·8	86·7	86·8	77·8	82·4	83·3	75·7	79·6	79·4	73·7	76·5	77·8	73·1	75·7
									Annual	84·0	76·3	80·2						

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

85 ESKDALEMUIR: Louvered hut: h_t = 0·9 m. 1944

	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	80·7	8·7	92·5	9·6	67·3	3·9	66·7	*4·5*	75·5	9·5	82·5	10·3	91·7	13·6	85·4	16·1	79·7	11·3	76·3	7·2	94·9	8·1	92·9	9·8
2	85·0	8·9	88·0	*9·9*	70·6	4·1	90·5	6·4	86·7	9·6	74·0	9·4	93·0	15·0	81·3	14·9	86·4	10·1	91·9	7·4	89·2	6·8	88·0	6·0
3	*70·7*	5·5	75·9	6·5	63·6	*3·5*	95·3	8·8	64·5	6·0	92·5	11·9	91·5	15·1	86·0	15·2	92·0	8·6	*75·3*	7·9	84·8	7·8	84·9	6·7
4	82·3	5·2	67·7	4·2	72·1	4·2	92·5	9·2	92·5	6·9	*94·0*	11·9	*95·2*	14·7	77·0	14·9	*96·6*	12·3	77·9	8·1	93·1	9·4	82·5	6·3
5	94·9	7·2	67·7	3·5	72·0	5·2	90·7	7·9	84·5	6·8	81·2	*9·1*	88·4	13·0	79·3	15·2	94·3	12·3	83·9	8·1	84·4	7·7	85·5	5·8
6	90·3	9·1	94·7	6·9	82·7	6·3	68·5	6·9	67·9	5·8	85·1	9·9	81·8	13·1	79·2	15·5	85·4	10·1	88·3	8·1	85·9	8·0	91·7	6·1
7	76·5	6·2	78·7	7·0	87·0	6·7	78·7	6·9	71·7	7·0	74·3	10·1	92·0	15·7	76·6	13·8	92·7	9·5	94·3	10·6	83·0	6·2	90·0	5·6
8	87·8	7·3	68·6	5·2	83·3	5·9	73·3	7·1	76·0	8·3	79·7	10·7	79·4	12·9	86·4	14·8	88·1	8·1	94·7	*11·6*	88·7	6·0	80·0	5·0
9	86·0	5·9	79·5	6·6	80·8	5·8	90·3	9·5	86·9	9·4	83·5	10·7	93·5	13·0	83·1	12·2	77·1	7·4	92·9	10·8	*73·4*	4·7	*75·1*	5·0
10	75·5	*3·2*	*60·0*	4·3	79·1	7·5	91·9	8·6	78·7	9·4	74·1	9·1	83·0	12·8	90·5	15·7	78·0	*6·9*	92·0	10·5	79·5	5·2	91·3	5·0
11	86·2	4·6	†	†	71·7	7·0	*97·1*	10·0	83·4	10·4	84·3	9·8	78·5	11·5	86·5	15·0	80·1	7·9	*96·4*	11·5	90·7	6·3	90·6	5·6
12	97·9	8·4	†	†	86·3	9·0	84·8	8·6	81·3	9·9	79·5	9·8	*74·1*	*10·5*	79·5	11·2	78·3	8·7	92·0	9·3	95·2	6·6	84·0	6·0
13	89·4	8·8	95·6	7·3	86·2	4·8	80·8	9·2	74·8	8·0	81·6	10·0	88·2	14·6	78·5	10·6	84·3	10·4	93·3	8·5	89·7	6·8	92·3	4·5
14	87·0	8·0	81·7	5·9	*59·4*	3·7	76·3	9·3	66·2	6·5	79·1	9·7	91·0	13·4	73·4	9·9	90·3	12·5	88·0	8·8	94·0	6·8	87·6	6·0
15	88·9	6·7	95·7	6·7	83·8	4·6	89·9	10·5	66·5	*5·4*	85·8	10·4	87·4	11·6	79·4	12·2	94·9	13·2	89·3	8·5	92·2	6·3	93·1	6·2
16	93·3	5·8	74·8	6·0	83·5	7·8	87·7	9·4	91·8	7·6	79·0	10·7	83·9	13·7	90·6	14·7	87·3	11·8	92·8	9·5	93·0	7·0	91·0	6·6
17	*98·2*	9·3	79·1	5·6	96·7	7·9	85·9	8·7	76·5	7·1	67·9	10·0	82·3	*15·8*	94·3	16·0	93·1	11·4	92·0	9·3	90·0	7·5	93·7	9·0
18	95·4	9·0	85·7	5·6	96·3	9·0	93·3	9·5	91·8	8·9	79·5	12·3	83·0	12·3	*95·9*	*16·9*	86·8	12·3	86·2	9·1	88·3	8·6	91·4	7·6
19	93·5	6·5	80·3	5·1	70·7	5·7	91·4	9·9	96·1	9·1	*63·3*	11·0	76·1	11·6	86·2	13·8	89·1	11·9	84·5	8·6	96·0	8·8	94·5	8·4
20	91·0	7·5	84·2	5·4	83·2	7·7	77·2	8·0	76·6	7·3	70·6	10·4	83·0	12·0	*69·9*	9·1	92·4	13·3	93·9	9·3	82·3	6·8	94·7	9·4
21	88·4	7·3	82·2	6·2	90·8	8·2	87·6	9·3	66·1	6·8	68·0	10·1	80·3	10·8	71·0	*8·0*	90·4	*15·0*	93·7	11·0	80·5	5·4	90·5	8·3
22	88·4	8·4	77·5	5·8	92·3	8·2	75·3	8·1	81·8	8·1	70·4	10·8	78·6	11·4	74·1	9·7	90·3	11·7	94·0	10·3	*96·7*	8·0	92·3	*10·3*
23	84·0	5·9	84·6	6·6	90·5	8·1	95·4	*11·4*	72·8	7·7	73·5	11·5	81·9	12·4	93·1	13·5	88·7	9·8	84·9	8·0	89·5	*9·7*	92·0	9·1
24	85·6	5·5	83·4	6·5	77·7	7·9	71·3	7·9	82·9	8·8	78·3	10·6	84·0	12·5	88·0	15·6	84·0	8·5	77·3	6·7	88·7	6·9	*96·9*	8·9
25	73·3	5·8	77·1	5·7	*99·3*	8·9	65·2	7·0	76·7	10·3	84·1	10·1	81·7	12·6	91·0	15·6	86·9	9·0	91·8	8·0	82·5	5·3	93·8	7·7
26	92·9	7·8	95·6	5·5	87·9	*9·1*	70·1	8·4	*98·1*	*13·0*	86·2	10·9	89·7	14·9	90·6	15·7	*71·5*	8·5	92·3	9·5	89·0	*4·4*	95·8	7·3
27	79·9	8·3	80·6	3·9	79·2	8·6	73·6	8·3	79·1	11·5	79·8	9·5	85·5	15·3	95·4	13·8	74·8	8·4	82·2	*6·4*	93·5	5·2	87·9	6·8
28	89·3	9·3	75·6	*3·4*	79·5	7·2	*59·9*	6·7	67·1	10·6	89·7	10·7	94·0	14·3	86·7	12·1	86·4	9·2	95·6	7·2	92·1	8·5	83·4	4·3
29	94·2	9·6	*96·4*	5·2	83·5	6·1	71·5	9·0	*54·6*	9·7	81·8	12·3	92·7	15·0	86·0	11·6	89·8	12·4	91·0	7·6	91·9	8·2	93·4	6·2
30	96·3	*10·2*			66·7	4·3	75·7	9·9	81·3	12·7	85·7	*13·2*	84·7	15·6	87·1	11·3	82·5	9·6	87·7	7·4	92·9	9·6	78·3	6·0
31	93·1	9·0			74·7	4·4			82·3	10·0			83·7	15·4	86·7	10·4			93·5	7·5			80·3	*4·1*
Mean*	87·3	7·2	81·6	5·8	79·8	6·3	81·6	8·4	78·4	8·5	79·7	10·6	85·6	13·3	84·1	13·2	86·4	10·2	89·1	8·7	88·5	6·9	89·0	6·6

* Mean of the column. † Hair Hygrograph under repair. Wet bulb below freezing point (32·0°F).
Means obtained for 27 days (11th and 12th omitted).

RELATIVE HUMIDITY

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

86 ESKDALEMUIR: h_t = 0·9 m. 1944

	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*
	per cent																									
Jan.	87·5	88·3	88·1	*89·4*	87·5	88·4	87·2	88·1	89·0	88·8	87·1	86·8	86·1	85·7	*83·7*	84·3	85·5	86·1	87·6	87·8	88·0	88·1	88·6	87·4	87·7	87·3
Feb.	84·4	84·3	84·0	85·1	85·7	85·3	*85·8*	85·0	84·4	84·3	79·8	77·3	77·0	74·5	74·8	75·0	*74·3*	78·4	81·3	81·6	83·9	83·8	84·5	85·0	82·9	81·6
Mar.	87·5	88·1	*88·6*	87·2	87·4	87·2	87·5	86·5	85·3	79·3	73·4	67·7	*67·0*	67·1	67·2	67·5	70·0	73·1	77·5	79·5	82·9	84·2	85·7	88·1	88·0	79·8
Apr.	89·1	89·3	89·2	88·6	*89·6*	88·6	88·8	87·7	84·0	79·8	75·1	71·9	71·5	*71·3*	72·1	71·6	71·8	73·2	77·8	82·6	84·4	86·2	87·1	87·6	88·7	81·6
May	89·5	91·3	92·5	92·7	*93·5*	93·3	90·3	85·1	78·9	73·5	69·5	66·0	63·9	63·1	63·8	62·8	*62·8*	65·7	69·7	75·6	81·5	84·3	86·3	88·0	89·0	78·4
June	89·0	88·6	90·4	*91·0*	90·5	89·5	85·6	84·1	79·3	74·3	71·4	68·3	*66·3*	68·6	69·5	68·4	69·8	71·2	75·2	77·1	83·4	85·3	87·3	87·4	89·7	79·7
July	92·8	93·4	93·6	*93·9*	93·5	92·7	91·5	88·7	85·1	81·7	79·8	78·3	77·3	76·6	76·8	76·8	*76·0*	78·5	80·4	83·9	88·2	89·9	92·0	92·9	93·0	85·6
Aug.	93·0	93·8	93·4	93·5	93·6	*93·8*	91·5	90·5	85·5	81·3	77·8	73·9	73·1	72·3	72·5	72·2	*71·7*	74·3	78·5	82·7	88·0	89·7	91·6	91·5	92·6	84·1
Sept.	91·7	91·9	*92·3*	91·1	90·3	90·8	90·8	89·9	86·9	84·1	81·0	78·5	78·2	*77·3*	77·4	78·4	80·9	83·4	87·4	88·5	89·6	91·1	90·8	91·4	91·6	86·4
Oct.	91·9	92·7	93·4	*93·7*	93·3	93·1	93·3	93·3	91·0	88·2	86·9	83·4	81·0	*79·3*	80·2	81·6	85·5	88·9	91·2	91·3	90·3	91·0	90·7	92·2	91·8	89·1
Nov.	90·4	90·1	89·9	90·9	91·9	90·7	91·5	*92·6*	91·8	89·7	87·6	85·6	84·0	*81·9*	82·7	84·1	86·0	86·7	88·6	87·7	90·0	89·2	91·0	89·9	90·9	88·5
Dec.	89·1	89·8	89·2	89·5	90·2	90·6	*91·2*	90·6	90·1	88·8	88·2	87·3	86·5	*85·7*	86·0	86·9	88·8	89·1	89·3	90·3	90·1	89·1	89·8	90·5	89·1	89·0
Annual	89·7	90·2	90·5	90·6	*90·6*	90·4	89·6	88·5	86·0	82·8	79·8	77·1	76·0	*75·3*	75·6	75·8	76·9	79·1	82·1	84·1	86·7	87·7	88·8	89·4	89·7	84·3

VAPOUR PRESSURE

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

87 ESKDALEMUIR: h_t = 0·9 m. 1944

	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.	6·9	7·0	7·0	7·1	7·0	7·0	7·0	7·1	7·1	7·2	7·3	7·4	7·5	*7·6*	7·4	7·4	7·3	7·3	7·3	7·2	7·2	7·1	7·1	7·0	*6·9*	7·2
Feb.	5·5	5·5	5·5	5·6	5·6	5·6	5·6	5·6	5·6	5·9	5·9	6·0	*6·2*	6·1	6·1	6·1	5·9	5·9	5·9	5·7	5·8	5·7	5·6	5·6	*5·4*	5·8
Mar.	6·1	6·0	6·0	5·8	5·8	5·7	*5·7*	5·8	6·1	6·2	6·4	6·3	6·5	6·8	*6·9*	6·8	6·8	6·7	6·6	6·4	6·4	6·3	6·2	6·2	6·0	6·3
Apr.	7·9	7·8	7·8	7·8	7·9	*7·7*	7·9	8·3	8·5	8·6	8·6	8·7	8·8	8·9	*9·1*	8·9	8·9	8·9	8·9	8·7	8·5	8·4	8·2	8·2	8·1	8·4
May	8·0	8·0	8·0	8·0	8·0	8·0	8·3	8·6	8·7	8·6	8·6	8·5	8·5	8·5	8·8	8·8	8·6	8·7	8·7	*8·8*	8·7	8·5	8·3	8·1	*7·9*	8·5
June	10·0	9·9	9·8	9·7	*9·6*	9·7	9·9	10·4	10·6	10·6	10·6	10·6	10·6	11·0	11·1	11·1	11·1	11·2	*11·3*	10·9	11·0	10·8	10·4	10·2	10·1	10·6
July	12·6	12·5	12·3	12·3	*12·2*	12·3	12·6	12·9	13·3	13·3	13·7	13·8	14·0	14·2	14·2	14·2	14·2	*14·4*	14·0	13·9	13·8	13·2	13·0	12·8	12·7	13·3
Aug.	12·4	12·2	12·1	11·8	*11·8*	11·8	12·0	12·9	13·3	13·7	13·9	13·6	14·0	14·1	*14·3*	14·1	13·9	14·0	14·1	13·9	13·5	13·1	12·9	12·5	12·2	13·2
Sept.	9·5	9·3	9·2	9·1	*8·9*	8·9	9·0	9·4	10·0	10·5	10·7	10·9	11·2	11·3	11·4	*11·5*	11·4	11·3	11·1	10·6	10·3	10·1	9·8	9·8	9·4	10·2
Oct.	8·3	8·3	8·2	8·1	8·1	8·0	8·0	*8·0*	8·2	8·6	9·1	9·3	9·4	9·3	9·5	9·6	*9·6*	9·4	9·1	8·9	8·5	8·5	8·3	8·4	8·3	8·7
Nov.	6·8	6·9	6·8	6·8	6·9	6·8	6·8	6·8	*6·7*	6·7	7·0	*7·3*	7·2	7·1	7·1	7·1	7·0	6·9	6·9	6·9	7·0	6·9	7·0	6·9	6·9	6·9
Dec.	6·7	6·6	6·6	6·6	6·6	6·6	6·6	6·5	6·4	*6·4*	6·5	6·7	6·7	6·8	*6·8*	6·7	6·7	6·6	6·6	6·6	6·6	6·5	6·5	6·5	6·5	6·6
Annual	8·2	8·1	8·1	8·0	8·0	*8·0*	8·1	8·3	8·5	8·6	8·8	8·9	9·0	9·1	*9·1*	9·1	9·1	9·0	8·9	8·7	8·6	8·5	8·4	8·3	8·1	8·6

* Mean of values, 1,2,·····23,½(0 + 24).

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

88 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. 1944

	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	1·5	1·4	...	13·5	9·2	8	4·1	2·3	...	...	...	...	1·0	1·3	1	1·0	3·1	8
2	5·9	5·8	7	9·6	*11·5*	*16*	...	...	...	17·4	*19·9*	...	*26·5*	16·0	*56*	0·7	0·7	1
3	...	...	...	13·5	9·2	10	...	...	...	8·7	14·9	5	...	...	...	13·6	13·7	18
4	...	...	...	0·1	...	...	0·2	0·1	...	1·5	2·8	...	9·2	5·9	7	*25·6*	*21·3*	24
5	1·4	1·5	...	...	...	...	...	...	...	1·3	2·6	...	1·7	1·8	1	2·1	4·7	1
6	6·5	7·4	4	3·6	7·8	...	...	...	...	...	...	...	...	...	...	0·9	2·1	1
7	2·5	3·1	1	7·4	7·6	14	...	...	...	...	...	...	...	...	...	0·4	0·5	6
8	21·7	11·5	14	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·3	1
9	0·6	0·4	...	1·6	2·3	...	0·5	1·2	...	1·4	4·7	6	1·8	2·4	1	0·9	1·5	2
10	...	...	...	...	...	...	0·1	0·3	...	0·6	0·5	...	4·2	2·8	7	0·2	1·0	2
11	1·2	6·0	...	...	...	...	...	...	...	1·5	1·7	12	...	...	...	3·2	4·9	3
12	4·9	9·4	6	...	...	...	0·7	2·2	2	0·5	0·5	...	...	...	...	6·1	4·0	40
13	*41·8*	*15·6*	22	4·6	2·6	7	0·6	0·5	*23*	3·0	4·2	9	...	...	...	9·3	4·6	36
14	...	...	...	...	...	...	...	...	...	0·5	0·2	...	...	...	...	5·9	5·6	13
15	...	...	...	*14·1*	5·8	12	...	...	...	1·6	5·7	...	0·2	0·2	...	5·1	8·0	2
16	...	...	...	...	...	...	...	...	...	...	...	...	10·9	13·2	10	1·0	1·8	2
17	5·8	9·9	4	0·4	0·6	9	0·3	0·3	...	0·4	0·8	...	0·7	1·7	...	...	...	...
18	6·8	9·8	5	0·4	0·2	...	*6·3*	*4·8*	15	...	...	...	0·5	4·0	7	...	...	...
19	0·3	...	...	0·1	...	...	1·2	0·5	6	*42·1*	14·1	*32*	18·7	*21·7*	10	...	...	...
20	6·3	2·6	*40*	0·7	0·3	...	1·2	1·9	...	2·4	1·0	3	0·6	4·0	...	...	...	...
21	11·4	5·9	13	2·6	1·7	14	1·2	2·4	4	3·5	5·9	11	...	...	...	...	...	...
22	23·4	10·1	30	5·7	5·9	9	0·6	1·0	...	1·0	3·7	...	...	...	...	...	...	...
23	3·7	5·4	4	2·8	4·7	3	...	...	...	4·9	6·1	10	...	...	...	...	...	...
24	18·3	9·6	23	1·1	1·7	...	...	...	...	2·0	1·3	4	1·0	2·9	1	...	...	...
25	6·9	6·0	12	...	...	...	...	...	...	...	...	...	2·4	8·2	6	4·6	2·7	15
26	9·2	11·7	7	8·4	11·4	2	...	...	...	...	...	...	5·8	12·7	1	8·0	5·3	20
27	7·6	5·3	20	1·8	2·0	...	...	...	...	...	...	...	1·5	2·3	1	1·7	1·6	19
28	2·0	3·8	...	...	...	...	...	...	...	...	...	...	0·3	1·3	1	25·4	13·4	27
29	3·1	5·5	...	3·1	4·4	6	...	...	...	...	...	...	...	...	...	22·8	4·9	*41*
30	1·8	1·3	...				...	...	...	...	...	...	...	...	...	3·0	7·9	19
31	1·8	4·0	6				...	...	...	...	...	...	0·3	0·5	1			
Total	196·4	153·0	-	95·1	88·9	-	17·0	17·5	-	94·3	90·6	-	97·3	102·9	-	141·7	113·6	-

	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	5·1	5·3	20	...	...	...	0·8	0·4	1	0·5	0·8	1	0·1	0·1	1	33·1	*18·4*	24
2	7·3	6·3	37	...	...	...	7·2	7·0	1	5·1	4·2	2	0·8	1·0	5	14·7	9·2	15
3	3·9	3·2	2	...	...	...	13·7	8·8	8	0·3	0·5	3	1·1	0·4	2	14·3	9·6	14
4	*12·4*	*9·9*	7	...	...	...	*28·2*	14·0	*51*	1·2	4·0	2	*39·3*	14·1	16	6·5	6·3	*48*
5	2·7	6·5	12	...	...	...	23·3	11·7	12	0·1	...	...	34·3	9·6	*70*	2·2	2·6	2
6	...	...	...	...	...	...	3·3	7·8	1	...	...	...	13·7	6·8	22	*34·9*	15·4	20
7	9·9	5·9	35	...	...	...	10·3	*18·8*	2	...	...	...	14·0	8·4	4	8·1	12·1	2
8	...	...	...	2·4	1·1	26	2·9	2·3	14	0·5	1·6	1	1·2	2·2	3	1·0	3·8	2
9	6·4	4·9	23	3·4	4·3	3	...	...	...	0·4	0·9	1	...	...	...	...	...	...
10	0·9	0·9	1	2·6	3·7	1	...	...	...	0·5	2·5	1	2·1	3·3	1	3·2	11·7	2
11	...	...	...	16·5	6·2	30	...	...	...	*21·6*	*17·3*	12	0·9	1·5	1	0·4	1·4	2
12	...	...	...	0·2	0·2	1	...	...	...	7·5	9·2	20	5·2	10·5	2	2·0	3·4	4
13	3·6	7·3	7	...	...	...	...	...	...	14·2	14·0	10	2·9	4·1	2	...	...	...
14	8·5	7·7	14	...	...	...	5·4	4·5	8	4·4	5·3	18	16·3	12·5	20	13·5	10·7	5
15	2·6	5·3	16	...	...	...	4·0	4·3	34	0·1	0·1	...	11·9	8·9	6	11·6	6·9	12
16	...	...	...	1·0	1·1	13	1·1	2·8	1	1·3	4·0	1	1·4	1·2	...	2·3	4·0	7
17	...	...	...	3·4	2·4	16	...	...	...	12·2	5·4	*46*	8·8	5·8	37	29·7	13·5	20
18	...	...	...	8·1	10·1	35	...	...	...	4·4	2·2	15	8·0	6·3	6	4·6	4·3	9
19	...	...	...	0·1	0·1	...	11·0	5·0	8	...	...	...	16·7	18·6	16	6·1	3·0	6
20	...	...	...	...	...	...	2·0	4·1	2	19·1	13·7	7	6·7	8·0	3	13·1	11·6	12
21	...	...	...	...	...	...	...	...	...	0·5	3·0	...	0·1	0·3	...	1·4	2·9	1
22	...	...	...	...	...	...	11·7	6·0	29	0·6	1·9	1	21·6	*24·0*	7	0·1	...	...
23	...	...	...	2·7	2·3	14	6·1	3·5	11	8·6	5·7	28	2·9	6·9	2	...	...	...
24	...	...	...	...	...	...	0·9	1·8	3	...	...	...	0·9	0·4	2	...	...	...
25	4·9	4·4	7	0·4	0·6	1	4·1	5·5	4	1·2	1·2	1	...	...	...	2·1	4·4	1
26	2·3	1·0	5	...	...	...	0·9	1·0	2	6·9	4·1	8	...	...	...	1·7	5·3	2
27	8·1	2·1	*71*	*21·2*	*12·7*	17	1·5	0·8	1	0·5	0·7	...	11·9	6·8	7	11·3	9·6	2
28	0·1	...	...	16·7	7·8	19	2·8	3·8	1	3·2	2·0	9	18·2	8·7	21	...	...	...
29	0·8	0·6	1	...	...	...	15·1	12·1	6	0·5	1·0	6	6·2	9·1	7	0·9	2·1	1
30	...	...	...	15·5	4·8	*45*	1·5	1·0	6	...	...	...	5·9	10·0	2	...	...	...
31	...	...	...	12·8	5·2	*45*				0·1	...	...				...	...	...
Total	79·5	71·3	-	107·0	62·6	-	157·8	127·0	-	115·5	105·3	-	253·1	189·5	-	218·8	172·2	-

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

89 ESKDALEMUIR: h_r = 242·0 m. + 0·4 m. 1944

	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	0-24
	millimetres																								
Jan.	5·7	7·1	10·7	10·2	10·0	6·8	9·1	5·6	8·4	9·9	11·8	8·2	*11·9*	10·4	8·0	9·2	2·3	8·5	7·1	6·2	10·4	7·0	4·9	7·0	196·4
Feb.	1·2	1·0	2·6	3·5	3·7	6·7	7·3	6·8	7·5	5·1	2·9	2·5	1·8	4·1	3·2	0·7	3·7	1·6	2·0	3·7	8·6	*9·1*	3·3	2·5	95·1
Mar.	0·1	0·6	0·1	0·0	0·7	0·6	0·5	0·8	0·5	0·0	1·1	0·1	0·0	0·1	1·4	2·3	0·6	0·5	0·7	0·3	0·7	*2·5*	2·4	0·4	17·0
Apr.	2·8	2·4	0·9	0·9	0·7	1·3	1·3	4·1	4·5	7·5	*7·9*	2·7	6·7	5·4	7·1	3·7	6·8	5·2	7·7	3·5	3·4	2·1	2·6	3·1	94·3
May	2·6	2·9	5·5	6·8	6·2	6·2	4·1	5·9	1·4	3·5	2·0	5·7	*13·7*	4·3	3·8	5·3	1·8	3·1	1·3	1·5	2·0	1·3	3·0	3·4	97·3
June	5·3	4·6	3·8	3·9	6·7	7·0	8·3	5·8	7·2	7·2	6·6	3·4	3·5	3·1	4·1	6·8	6·3	4·9	2·7	8·4	*11·7*	5·1	5·9	9·4	141·7
July	4·0	2·3	2·3	2·5	2·2	2·3	2·7	3·2	1·5	2·0	3·0	1·9	2·5	7·6	*8·0*	3·0	1·4	1·5	6·5	4·9	6·5	3·1	2·3	2·3	79·5
Aug.	9·4	5·1	4·1	4·7	0·6	0·2	0·5	3·1	1·5	2·7	8·2	8·0	7·1	1·9	6·7	0·8	0·3	6·0	1·7	2·6	6·3	6·9	7·9	*10·7*	107·0
Sept.	11·4	7·3	7·7	5·1	5·1	4·4	3·0	5·7	2·8	2·9	4·9	4·6	4·8	1·6	2·8	7·9	10·6	6·3	10·1	11·5	7·0	9·2	7·2	*13·9*	157·8
Oct.	4·7	6·2	5·8	2·0	1·6	1·9	3·7	2·7	1·9	5·4	3·5	5·1	5·9	8·2	9·2	*9·8*	5·9	8·8	4·9	3·2	2·6	2·7	5·8	4·0	115·5
Nov.	16·5	12·8	11·9	14·8	11·1	9·1	9·0	9·9	11·6	8·5	14·3	7·4	9·1	7·6	6·8	6·6	9·3	11·2	8·1	8·4	10·3	9·1	11·2	*18·5*	253·1
Dec.	7·8	8·2	10·2	11·3	11·3	6·1	4·8	4·7	8·1	7·4	4·8	6·9	7·5	5·5	*18·6*	14·3	14·3	11·9	4·6	7·5	7·0	14·6	9·5	11·8	218·8
Annual	71·5	60·5	65·6	65·7	59·9	*52·6*	54·3	58·3	56·9	62·1	71·0	56·5	74·5	59·8	79·7	70·4	63·3	69·5	57·4	51·7	76·5	72·7	66·1	*87·0*	1573·5

RAINFALL

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

90 ESKDALEMUIR: h_r = 242·0 m. + 0·4 m. 1944

	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	0-24
	hours																								
Jan.	4·5	5·4	5·7	5·9	4·3	4·8	7·3	6·4	6·1	8·5	9·1	9·1	*11·3*	8·7	7·8	5·5	3·6	5·4	6·6	4·5	6·5	5·0	5·7	5·3	153·0
Feb.	2·4	3·5	3·8	2·9	4·4	4·9	3·8	4·7	5·4	*6·5*	4·6	3·2	3·4	4·4	2·5	1·1	2·9	2·1	1·8	2·7	4·0	5·3	4·6	4·0	88·9
Mar.	0·3	0·4	0·2	0·0	0·7	1·1	1·3	1·4	0·8	0·0	0·5	0·0	0·0	0·0	1·0	1·1	0·4	0·8	1·2	1·1	1·0	1·0	*2·2*	1·0	17·5
Apr.	2·3	2·0	2·4	2·7	2·0	2·4	2·4	4·8	6·1	4·6	4·6	4·4	4·5	5·1	5·0	3·1	3·0	3·9	5·5	*6·2*	5·3	1·6	3·5	3·2	90·6
May	4·1	4·4	*7·1*	6·2	6·3	6·6	6·4	7·0	4·0	3·1	2·9	4·3	5·1	3·8	2·8	2·3	2·9	2·1	2·8	2·9	3·2	2·6	3·8	6·2	102·9
June	4·6	4·1	5·4	5·5	6·3	7·1	*8·1*	6·0	5·1	3·4	4·2	3·4	3·9	3·9	3·7	4·0	3·4	4·8	4·3	4·1	4·5	3·0	5·0	5·8	113·6
July	3·2	2·5	2·9	3·4	3·5	3·2	3·3	4·0	4·2	2·4	3·2	2·7	2·4	*4·9*	4·7	2·7	1·3	1·5	1·5	2·9	3·8	2·7	3·0	1·4	71·3
Aug.	3·1	3·3	*4·4*	1·8	1·4	1·1	0·3	2·2	2·1	2·3	4·3	4·1	4·2	2·3	2·6	1·3	1·3	1·5	2·1	3·0	4·1	2·7	3·0	4·1	62·6
Sept.	6·2	6·1	5·7	6·3	6·5	6·7	3·7	5·0	3·7	3·3	3·5	3·4	3·4	2·3	3·3	3·9	5·8	6·1	6·7	7·3	5·6	7·4	6·5	*7·6*	127·0
Oct.	5·4	4·6	4·2	4·8	5·0	5·3	4·5	4·4	4·1	3·0	2·9	3·8	4·6	5·3	5·2	*7·1*	5·6	4·7	2·8	2·1	3·5	3·5	4·4	4·5	105·3
Nov.	8·3	7·5	5·5	6·1	7·4	7·4	7·7	9·4	*10·2*	8·3	7·4	5·4	5·7	5·2	7·1	6·8	8·9	8·9	8·0	9·5	*10·2*	10·0	8·5	10·1	189·5
Dec.	6·1	8·3	9·0	7·6	7·1	6·0	3·7	4·6	6·6	5·0	5·3	8·5	7·0	7·2	7·8	8·1	8·4	6·8	7·4	9·5	5·1	*10·1*	9·8	7·2	172·2
Annual	50·5	52·1	56·3	53·2	54·9	56·6	52·5	59·9	58·4	50·4	52·5	52·3	55·5	53·1	53·5	*47·0*	47·5	48·6	50·7	55·8	57·8	54·9	60·0	*60·4*	1294·4

NOTES ON RAINFALL

91 ESKDALEMUIR 1944

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": No occasions
"Partial drought": No occasions
"Dry spell": March 2–17

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

"Rain spell": January 17–February 3; May 31–June 16
"Wet spell"; January 20–February 3

Rainfall Duration

Hours	0·1–1·0	1·1–2·0	2·1–6·0	6·1–12·0	>12·0
Number of days	42	27	92	51	26

Notable Falls of the Year

The greatest amount in a 60-min. period was 11·6 mm. between 14h. and 15h. on December 6, of which 10 mm. fell in 54 min. Falls of 5 mm. in one hour or less occurred on 21 days.

	January 12–13	April 19	September 4–5	November 4–5	December 5–7
Amount (mm.)	42	42	35	70	34
Duration of rainfall (hr.)	15·5	14·1	10·9	23·0	15·0

Rate of Rainfall (Jardi recorder)

The highest instantaneous rate of rainfall recorded was 71 mm./hr. at 18h. 30m. on July 27. The maximum rate exceeded 50 mm./hr. on May 2, July 27, September 4 and November 5.

92 ESKDALEMUIR: h_s(height of recorder above ground) = 1·5 m. 1944

	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	...	...	...	...	5·9	55	7·3	56	0·1	1	...	...	1·3	8	8·9	56	6·3	46	6·9	60	1·3	14	...	...
2	...	...	1·6	19	9·0	84	...	...	0·1	1	3·2	19	0·1	1	*12·4*	*78*	1·4	10	(1·5)	13	...	...	0·2	3
3	1·6	22	3·9	45	9·1	84	...	...	*13·5*	*88*	...	...	0·8	5	10·0	63	0·3	2	*7·6*	67	4·3	47	1·7	23
4	*5·9*	*82*	5·9	67	...	...	...	...	...	...	...	...	...	...	10·6	67	0·1	1	2·6	23	...	...	3·9	53
5	...	...	5·4	61	2·1	19	...	...	5·0	32	3·6	21	3·7	22	8·7	56	...	...	4·7	42	3·3	37	4·3	60
6	...	...	...	...	...	...	10·4	78	4·4	28	3·0	18	5·2	30	9·3	60	...	...	6·4	57	1·1	12	0·8	11
7	...	...	4·4	49	1·9	17	3·7	27	7·2	46	6·9	40	0·2	1	11·4	73	...	...	...	...	3·6	41	0·2	3
8	...	...	5·7	63	8·5	76	6·5	48	3·7	24	7·1	41	*10·3*	*60*	1·7	11	2·3	17	...	...	1·7	19	5·0	69
9	0·6	8	0·2	2	7·1	63	0·1	1	0·2	1	...	...	2·4	14	0·3	2	5·0	38	...	...	*7·1*	*82*	5·2	73
10	4·0	54	6·3	69	3·6	32	...	...	4·1	26	1·1	6	3·7	22	0·4	3	2·8	21	...	...	2·7	31	...	...
11	...	...	7·5	81	2·5	22	0·1	1	7·2	45	4·5	26	6·1	36	4·8	31	5·5	42	...	...	...	...	...	...
12	...	...	...	...	0·1	1	5·2	38	5·5	35	6·7	39	4·1	24	10·8	71	*10·7*	83	3·3	31	...	...	4·4	62
13	...	...	...	...	*9·6*	*83*	1·5	11	4·6	29	5·7	33	2·2	13	6·4	42	5·2	40	...	...	2·2	26	1·6	23
14	...	...	6·3	67	5·6	48	1·9	14	8·9	55	10·1	58	0·2	1	9·5	63	0·3	2	2·5	24	0·3	4	...	...
15	2·3	30	...	...	1·6	14	0·8	6	4·1	25	2·3	13	1·8	11	5·9	39	0·4	3	5·5	53	3·1	37	...	...
16	...	...	7·0	73	1·8	15	1·4	10	3·3	20	3·3	19	0·7	4	1·3	9	2·9	23	...	...	2·0	24	...	...
17	...	...	1·6	17	...	...	...	...	5·7	35	12·9	74	3·0	18	0·1	1	2·7	21	1·0	10	...	...	...	...
18	...	...	...	...	...	...	0·2	1	...	...	0·2	1	5·9	35	0·1	1	7·1	57	0·4	4	0·7	9	0·1	1
19	...	...	0·1	1	4·4	37	...	...	...	...	*14·6*	*84*	7·7	46	3·8	26	3·5	28	6·5	64	...	...	...	...
20	...	...	...	...	...	...	5·1	35	9·6	59	11·2	64	0·5	3	3·6	25	1·1	9	...	...	0·8	10	...	...
21	...	...	2·2	22	...	...	1·1	8	9·8	60	9·8	56	0·2	1	0·1	1	4·3	35	...	...	4·8	60	0·3	4
22	...	...	2·3	23	...	...	6·3	43	3·7	22	3·5	20	0·7	4	4·4	30	0·8	7	...	...	...	...	...	...
23	1·1	14	0·2	2	...	...	...	...	4·0	24	10·7	62	...	...	...	...	3·5	29	6·0	60	1·2	15	...	...
24	...	...	1·1	11	4·4	36	6·7	45	0·8	5	7·7	44	1·1	7	4·0	28	1·2	10	7·3	*74*	1·4	18	...	...
25	0·3	4	0·1	1	...	...	(7·0)	(47)	7·5	45	7·0	40	0·9	6	·0·7	5	...	...	...	...	2·8	36	...	...
26	...	...	...	...	9·2	73	*13·0*	*87*	...	...	2·1	12	0·9	6	2·9	20	6·2	52	...	...	0·1	1	...	...
27	...	...	5·1	49	7·5	59	2·3	15	7·0	42	6·2	36	4·4	27	0·1	1	9·8	*83*	4·7	49	1·5	20	0·7	10
28	...	...	*8·8*	*84*	7·7	61	6·6	44	6·5	39	1·2	7	0·1	1	0·4	3	...	...	0·7	7	0·4	5	5·8	82
29	...	...	...	...	5·5	43	8·5	56	9·0	53	4·0	23	0·5	3	1·9	14	3·8	33	6·6	70	...	...	...	...
30	...	...			6·1	47	6·3	42	6·5	39	5·4	31	8·7	54	5·7	41	4·4	38	6·6	70	0·1	1	1·7	24
31	0·3	4			5·3	41			...	...			2·5	16	5·7	41			...	...			*5·9*	*83*
Mean	0·52	–	2·61	–	3·82	–	3·40	–	4·58	–	5·13	–	2·54	–	4·71	–	3·05	–	2·61	–	1·55	–	1·35	–
											Annual mean		2·97	–										

DURATION OF BRIGHT SUNSHINE

Monthly and annual totals between exact hours, local apparent time

93 ESKDALEMUIR: h_s = 1·5 m. 1944

	Hour L.A.T. 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	Total	Per cent. of possible
	hours																			%
Jan.	–	–	–	–	...	0·3	2·3	2·8	2·2	*3·9*	2·5	1·5	0·6	...	–	–	–	–	16·1	7
Feb.	–	–	–	...	1·0	7·6	9·8	11·0	10·5	*11·6*	9·8	7·9	6·1	0·4	...	–	–	–	75·7	27
Mar.	–	–	...	0·3	7·8	10·6	12·7	14·1	13·4	13·7	14·0	*14·7*	11·3	5·5	0·4	...	–	–	118·5	32
Apr.	–	...	0·8	4·3	5·7	8·3	9·8	11·1	10·1	*11·7*	10·2	8·8	8·8	7·3	4·2	0·9	...	–	102·0	24
May	...	...	4·8	8·3	9·9	10·0	11·4	10·8	11·6	10·1	*13·7*	13·2	13·2	12·7	8·7	3·6	...	...	142·0	28
June	...	1·3	6·2	6·6	7·5	11·6	14·0	*15·5*	13·1	11·4	11·7	13·1	12·6	13·3	9·5	5·8	0·8	...	154·0	30
July	...	0·3	1·2	3·1	4·5	4·0	6·5	6·2	6·9	*8·9*	7·2	7·5	8·2	6·8	5·2	2·9	0·5	...	79·9	15
Aug.	–	...	1·1	7·9	10·2	10·9	12·4	13·1	*14·9*	14·8	14·8	13·0	12·2	11·5	6·2	2·9	...	–	145·9	32
Sept.	–	–	...	2·3	7·6	6·3	9·2	9·3	8·1	10·6	*11·5*	10·8	7·5	6·3	2·1	...	–	–	91·6	24
Oct.	–	–	–	...	3·7	6·2	6·5	9·6	10·0	11·7	*12·3*	9·8	8·0	2·9	0·1	–	–	–	80·8	25
Nov.	–	–	–	–	...	2·4	6·4	8·4	*10·1*	6·1	5·8	5·3	2·0	...	–	–	–	–	46·5	19
Dec.	–	–	–	–	–	0·2	4·4	6·6	8·0	*9·8*	7·6	5·2	...	–	–	–	–	–	41·8	19
Annual	...	1·6	14·1	32·8	57·9	78·4	105·4	118·5	118·9	*124·3*	121·1	110·8	90·5	66·7	36·4	16·1	1·3	...	1094·8	24

WIND

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

94 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. 1944

	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	11·0	28	10·1	23	7·0	18	3·4	10	5·7	18	2·8	17	4·3	11	1·2	6	3·4	15	3·5	16	0·9	12	*10·4*	25
2	*12·8*	30	8·5	27	8·1	22	4·2	11	*10·7*	*25*	5·8	*26*	3·1	10	2·3	9	4·9	16	5·0	19	0·6	6	8·0	21
3	5·6	20	*11·0*	*31*	7·2	17	2·2	9	6·5	20	5·6	19	2·3	8	1·4	7	2·3	12	7·2	23	4·3	21	7·0	*28*
4	4·7	19	9·9	27	5·2	17	2·6	9	4·5	18	*11·0*	23	1·8	9	*0·7*	5	2·4	13	*7·7*	21	*10·9*	*30*	8·2	25
5	7·1	24	2·0	13	1·0	7	2·0	8	5·0	21	8·4	25	3·3	12	0·7	5	4·0	12	0·8	7	9·8	29	5·5	19
6	9·8	25	5·4	15	0·7	5	1·9	9	1·9	9	6·6	22	2·4	11	1·0	7	2·7	12	0·8	5	8·6	23	6·4	21
7	3·4	17	10·3	26	1·0	7	2·2	13	3·3	8	4·5	13	3·0	16	1·5	8	3·6	12	1·7	9	7·5	23	3·7	10
8	7·2	21	7·1	21	*0·5*	5	2·4	11	5·0	15	3·0	11	2·1	9	3·8	12	1·5	13	0·5	5	3·5	15	4·5	17
9	4·8	22	6·3	21	1·5	14	2·7	10	6·2	16	3·6	19	3·8	13	2·9	10	2·0	14	0·6	4	6·4	19	6·7	20
10	1·4	10	8·1	20	3·2	19	4·3	16	4·7	13	3·9	16	3·9	17	6·1	17	0·9	7	2·5	9	1·5	14	2·4	11
11	0·6	7	1·4	9	7·6	*26*	5·7	14	4·1	13	4·2	16	5·3	*18*	5·9	14	0·8	7	4·5	16	0·6	3	3·3	15
12	4·4	15	0·9	5	10·2	25	2·6	9	2·6	10	6·9	20	3·0	14	2·9	16	2·1	9	5·9	*24*	*0·3*	5	4·5	16
13	8·3	21	4·1	15	*10·9*	25	2·7	13	2·2	13	5·1	16	2·5	9	2·1	13	2·5	12	4·3	19	1·5	12	*0·4*	7
14	8·2	21	1·6	13	3·7	15	1·8	10	3·3	11	5·6	19	4·0	12	0·7	7	1·2	7	5·2	21	8·0	25	5·5	15
15	3·5	14	4·6	22	2·9	13	*1·3*	5	4·0	13	6·5	19	4·8	16	2·1	12	3·1	13	3·7	14	4·6	13	2·0	9
16	0·7	5	3·7	17	2·5	9	2·9	9	6·8	20	5·5	18	2·5	9	3·4	12	5·2	22	3·2	14	4·1	14	4·7	15
17	4·7	9	3·9	15	3·1	9	1·6	6	3·9	14	1·5	9	1·0	8	5·6	18	2·5	11	5·1	23	7·4	24	10·2	25
18	7·0	20	1·5	6	7·9	22	4·0	13	4·1	11	*0·5*	9	3·2	11	*6·6*	*19*	1·9	9	5·7	19	4·5	19	2·2	11
19	*0·5*	5	*0·2*	3	6·0	23	*12·1*	*27*	5·1	15	2·0	7	2·0	7	2·4	13	0·9	8	3·3	14	1·8	8	5·7	15
20	9·1	24	3·8	15	6·6	23	9·0	26	7·5	22	3·7	12	3·3	12	5·9	17	*0·4*	4	4·5	20	5·9	18	7·5	15
21	10·2	27	7·2	20	1·6	14	7·8	24	3·6	14	3·8	13	*5·6*	15	3·9	13	0·6	5	2·7	14	1·9	13	3·7	15
22	9·8	25	8·5	19	1·3	6	6·8	20	1·9	10	1·9	10	2·4	11	3·3	13	2·7	12	1·4	11	3·7	17	2·2	10
23	6·3	19	7·0	17	3·1	9	6·0	15	*0·7*	7	2·0	9	1·8	7	2·3	12	3·2	15	3·8	15	5·0	17	1·5	7
24	5·9	22	4·1	15	3·0	11	9·2	26	4·4	15	3·2	14	1·3	7	3·6	13	3·7	17	3·2	17	1·2	7	4·7	11
25	12·6	*31*	1·5	7	3·6	11	4·7	18	6·7	21	3·9	14	1·5	9	0·9	3	5·4	23	*0·0*	2	2·2	9	5·6	17
26	6·8	22	6·3	19	3·2	13	4·1	16	7·3	18	0·9	7	1·9	10	1·1	6	*9·1*	*25*	5·2	19	0·6	5	4·8	18
27	10·8	28	7·5	20	1·1	8	4·5	18	5·3	16	3·3	15	1·3	9	4·6	14	8·7	25	3·3	12	2·2	13	5·1	15
28	8·6	21	2·1	9	1·8	12	4·9	15	3·2	13	8·7	25	1·8	8	4·7	18	4·2	14	1·9	13	7·4	22	0·7	10
29	8·6	22	3·2	12	3·4	12	5·4	26	1·2	7	2·8	10	2·3	9	2·1	10	8·1	24	2·7	13	8·0	21	4·3	16
30	7·2	17			2·4	11	7·3	25	4·0	13	2·3	9	2·3	9	3·7	17	3·2	13	1·8	9	6·6	16	2·7	13
31	8·6	19			1·5	10			3·1	13			*0·7*	6	4·1	15			0·6	8			1·2	7

WIND

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

95 ESKDALEMUIR: h_a = 235 m. + 15 m. 1944

	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.	6·0	6·4	6·8	7·4	7·1	7·0	7·3	7·5	7·2	6·9	7·1	7·6	*7·6*	7·1	7·0	6·8	6·6	6·4	6·6	6·6	6·2	6·1	*5·8*	6·1	6·8
Feb.	4·5	4·9	4·8	4·7	4·9	5·0	4·8	5·4	5·5	6·0	6·1	*6·2*	6·2	6·1	6·0	5·9	5·8	5·2	4·5	*4·3*	4·6	4·9	4·6	4·7	5·2
Mar.	3·5	3·6	3·6	3·9	3·5	3·8	3·6	3·5	3·7	4·2	4·5	4·6	4·8	*5·0*	5·0	4·8	4·5	4·2	3·9	3·5	3·4	3·5	*3·0*	3·4	4·0
Apr.	4·0	3·7	3·7	3·5	3·4	*3·3*	3·5	3·4	4·2	4·9	5·5	6·0	*6·1*	5·9	5·5	5·5	5·2	5·1	4·3	4·1	3·4	3·5	4·0	4·2	4·4
May	3·3	3·6	3·6	3·4	*3·3*	3·3	3·7	4·5	5·0	5·3	5·4	5·5	5·8	5·9	6·1	*6·1*	5·6	5·5	4·9	4·0	3·5	3·4	3·3	3·3	4·5
June	*3·2*	3·4	3·6	3·3	3·5	3·5	3·8	3·9	4·3	5·3	5·4	5·4	*5·5*	5·4	5·2	5·0	5·0	5·0	4·8	4·5	3·8	3·7	3·6	3·3	4·3
July	2·0	1·9	1·8	1·8	*1·7*	1·8	2·0	2·4	2·7	3·2	3·6	3·8	3·9	*4·0*	3·7	3·6	3·6	3·8	3·3	3·0	2·2	2·1	1·9	1·8	2·7
Aug.	1·9	2·0	2·1	*1·9*	2·2	2·2	2·2	2·9	3·6	4·4	*4·6*	4·5	4·3	4·2	4·2	4·2	4·0	3·5	2·7	2·2	2·0	2·0	2·2	2·1	3·0
Sept.	2·2	2·2	2·4	2·3	2·4	2·6	2·5	2·8	3·0	4·1	4·7	4·8	5·1	*5·2*	5·0	4·8	4·3	3·7	3·0	2·6	2·4	*1·7*	2·0	2·1	3·2
Oct.	2·6	2·7	*2·4*	2·5	2·7	2·9	2·6	2·8	3·5	4·4	4·6	*4·7*	4·5	4·3	4·2	4·1	3·7	3·3	3·2	2·7	2·6	2·8	2·7	2·6	3·3
Nov.	4·1	4·3	4·2	4·0	*4·0*	4·3	4·3	4·1	4·3	4·5	4·9	*4·9*	4·1	4·9	4·5	4·1	4·3	4·1	4·3	4·3	4·6	4·5	4·4	4·7	4·4
Dec.	4·8	4·8	4·7	4·9	4·8	4·9	4·9	4·9	4·7	4·4	4·9	5·2	5·2	4·9	5·3	*5·4*	4·9	4·4	4·2	4·1	4·1	4·2	*3·9*	4·1	4·7
Annual	3·5	3·6	3·6	3·6	3·6	3·7	3·8	4·0	4·3	4·8	5·1	5·3	*5·3*	5·2	5·1	5·0	4·8	4·5	4·1	3·8	3·6	3·5	*3·4*	3·5	4·2

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

96 ESKDALEMUIR: h_a = 235 m. + 15 m. 1944

	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.	2	1	18	141	332	140	130	0	260	17	2 8	31	25 3 55
Feb.	3	2	11	60	258	214	162	0	300	18	3 13	31	3 13 5
Mar.	11	1	6	35	170	306	232	0	310	18	11 4	26	11 3 50
Apr.	30	1	7	39	205	316	159	0	300	17	30 1	27	19 14 0
May	–	0	5	17	228	355	144	0	240	14	2 3	25	2 22 50
June	–	0	6	28	199	341	152	0	300	15	2 5	26	2 4 30
July	–	0	0	0	67	439	238	0	50	9	7 10	18	11 12 55
Aug.	–	0	2	3	136	322	283	0	340	12	28 12	19	18 5 20
Sept.	–	0	3	15	138	299	268	0	310	14	27 11	25	26 15 25
Oct.	–	0	5	14	167	277	286	0	210	15	12 2	24	12 1 15
Nov.	4, 5	5	9	32	236	229	218	0	220	18	5 1	30	4 21 0
Dec.	–	0	3	22	283	285	154	0	190	15	17 9	28	3 16 5
Year	6		10		75	406	2419	3523	2426	0	300	18	Feb. 3 13	31	Feb. 3 13 5

TEMPERATURE IN THE GROUND AT DEPTHS OF 30 CM. (1ft.) AND 122 CM. (4ft.) AT 9h., G.M.T.

97 ESKDALEMUIR 1944

	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	77·5	79·8	78·8	78·9	76·3	78·5	78·1	78·9	83·2	80·2	85·0	81·3	86·8	83·3	88·8	85·1	86·3	85·6	83·7	84·4	80·6	82·7	78·0	80·1
2	78·0	79·6	79·0	79·0	76·0	78·6	78·0	78·9	82·2	80·2	84·7	81·3	86·7	83·5	89·2	85·2	86·3	85·7	82·9	84·3	79·8	82·4	78·5	80·1
3	78·0	79·5	79·3	79·2	76·0	78·6	78·0	78·9	82·0	80·4	84·5	81·5	86·8	83·3	89·4	85·1	85·7	85·6	82·7	84·2	80·0	82·3	78·0	80·2
4	77·9	79·5	78·9	79·2	75·8	78·5	78·2	78·9	81·7	80·4	84·4	81·3	87·1	83·4	90·0	85·2	85·2	85·3	82·9	84·1	80·0	82·2	77·1	80·2
5	77·1	79·4	78·0	79·2	75·8	78·2	78·8	78·9	81·1	80·5	84·1	81·8	87·0	83·5	90·2	85·2	85·3	85·3	82·5	84·1	80·4	82·2	77·6	80·1
6	77·1	79·4	77·2	79·2	75·6	78·1	79·0	79·0	81·0	80·4	83·9	82·0	86·8	83·7	90·1	85·3	85·1	85·2	82·2	84·0	80·0	82·1	77·2	80·1
7	77·7	79·5	77·0	79·2	75·9	78·1	79·7	79·0	80·9	80·6	83·7	82·1	87·1	83·8	90·0	85·4	85·0	85·1	82·5	84·0	79·1	82·1	77·0	80·0
8	77·8	79·3	77·1	79·2	76·2	78·1	79·8	78·9	81·3	80·7	84·0	82·1	87·1	83·9	90·1	85·5	84·6	85·1	82·8	83·9	78·9	82·2	77·0	80·0
9	77·6	79·4	77·0	79·1	76·6	78·1	79·6	79·1	81·7	80·4	84·8	82·1	87·7	83·9	89·6	85·6	84·0	85·1	83·0	83·7	78·2	82·0	76·9	80·0
10	77·0	79·5	77·0	79·1	76·9	78·1	80·0	79·1	81·8	80·6	84·7	82·1	87·5	84·1	88·9	85·5	83·6	85·1	83·1	83·6	77·0	81·6	76·7	79·9
11	76·6	79·6	76·9	79·1	77·2	78·0	79·8	79·1	82·1	80·9	84·2	82·1	87·4	84·1	88·9	85·7	83·4	85·0	83·1	83·6	77·7	82·0	76·7	79·7
12	76·5	79·6	76·7	79·1	77·8	78·1	80·0	79·1	82·5	80·8	84·2	82·2	87·4	84·1	88·6	85·9	83·8	85·1	83·0	83·5	77·7	82·0	76·5	79·6
13	76·5	79·6	76·7	79·0	78·0	78·2	80·2	79 1	82·6	80·5	84·2	82·1	87·2	84·1	88·2	85·9	84·0	84·9	82·7	83·5	77·9	81·6	76·2	79·4
14	76·9	79·6	76·9	79·0	77·8	78·1	80·4	79·1	82·7	80·7	84·2	82·2	87·5	84·2	87·8	85·9	84·1	84·8	82·5	83·8	78·1	81·2	76·2	79·3
15	77·0	79·5	76·9	79·0	77·1	78·2	80·8	79·1	82·4	80·8	84·2	82·1	87·1	84·3	88·0	85·9	84·9	84·5	82·0	83·6	78·1	81·3	76·1	79·2
16	77·2	79·4	76·8	78·8	77·0	78·2	81·2	79·2	82·0	80·9	84·2	82·1	86·9	84·3	88·1	85·8	85·2	84·6	81·9	83·5	78·0	81·1	76·3	79·2
17	77·0	79·1	76·9	78·9	77·2	78·2	81·2	79·3	81·6	80·9	84·1	82·2	87·5	84·5	88·0	85·9	84·9	84·6	81·8	83·4	78·0	81·1	75·8	79·5
18	77·2	79·1	76·7	78·9	77·7	78·2	81·0	79·4	81·7	81·0	85·0	82·4	88·0	84·2	88·0	85·9	85·2	84·7	81·6	83·3	78·0	81·1	76·9	79·2
19	77·8	79·1	76·5	78·8	78·0	78·3	80·9	79·9	81·7	81·0	85·1	82·4	88·2	84·6	88·0	85·9	85·3	84·8	81·6	83·4	78·4	81·0	77·1	79·2
20	77·8	79·1	76·7	78·7	77·9	78·2	80·9	79·8	81·3	81·0	85·8	82·3	88·5	84·6	88·0	85·7	85·7	84·7	81·7	83·4	77·8	81·0	77·6	79·2
21	77·7	79·4	76·6	78·8	77·9	78·2	81·0	79·8	81·7	81·1	85·8	82·4	88·0	84·7	87·2	85·6	85·7	84·6	81·6	83·4	78·4	80·8	78·0	79·2
22	77·8	79·1	76·5	78·7	78·0	78·2	80·6	79·8	82·0	81·1	86·1	82·4	87·7	84·6	87·0	85·8	85·7	84·6	81·9	83·2	78·0	80·8	78·0	79·1
23	78·1	79·2	76·8	78·7	78·2	78·2	81·1	79·7	82·2	81·0	86·5	82·5	87·3	84·8	86·9	85·7	85·4	84·8	82·1	83·1	78·0	80·8	78·3	79·1
24	77·6	79·6	77·0	78·6	78·3	78·2	81·3	79·9	82·4	81·0	87·1	82·6	87·5	84·9	86·9	85·5	85·0	84·5	82·0	83·1	78·7	80·8	78·6	79·1
25	77·3	79·5	77·0	78·6	78·8	78·3	81·2	79·8	82·8	81·2	87·0	82·5	87·7	84·8	87·1	85·5	84·3	84·4	80·9	83·1	78·6	80·7	78·8	79·2
26	77·1	79·3	77·1	78·6	78·9	78·5	81·5	80·0	83·1	81·0	87·0	83·1	87·7	84·9	87·6	85·4	84·1	84·6	81·2	83·1	78·0	80·3	78·5	79·2
27	77·5	79·0	76·8	78·7	79·3	78·4	81·9	80·1	83·5	81·1	86·6	83·2	87·7	84·9	87·7	85·5	83·9	84·5	80·9	83·0	77·3	80·4	78·6	79·2
28	77·9	79·1	76·5	78·6	79·8	78·6	81·7	80·1	84·1	81·1	86·6	83·1	88·2	84·9	87·5	85·6	83·4	84·4	80·3	82·8	76·6	80·5	77·1	79·1
29	78·1	79·0	76·2	78·5	79·8	78·6	81·9	80·1	84·7	81·2	85·8	82·5	88·1	84·9	87·0	85·6	83·6	84·4	80·1	82·7	76·9	80·5	77·0	79·2
30	78·6	79·1			79·3	78·7	82·3	80·2	85·2	81·3	86·2	83·3	87·9	84·9	86·9	85·6	84·0	84·5	80·0	82·8	78·1	80·3	76·9	79·4
31	78·8	79·0			78·6	78·8			85·6	81·3			88·3	85·0	86·7	85·6			79·8	82·7			76·7	79·1
Mean	77·5	79·4	*77·2*	78·9	77·5	*78·3*	80·3	79·4	82·4	80·8	85·1	82·2	87·5	84·3	*88·3*	*85·6*	84·8	84·9	82·0	83·5	78·4	81·4	77·3	79·5
											Year		81·5	81·5										

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 18h. TO 7h., G.M.T.

98 ESKDALEMUIR 1944

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	degrees Absolute											
1	78·6	78·2	69·5	*61·7*	79·2	79·8	83·0	81·6	76·3	72·4	71·1	79·6
2	78·0	80·5	66·9	73·4	81·2	79·7	84·7	82·6	80·8	*66·3*	75·6	72·1
3	72·9	78·0	68·1	75·3	73·8	80·6	85·1	81·5	70·1	75·1	77·7	72·9
4	71·1	68·7	65·5	79·2	*68·6*	83·7	85·6	78·2	78·9	75·4	72·4	74·0
5	62·8	69·5	71·9	76·3	71·0	78·2	83·3	79·7	81·9	74·6	79·0	71·4
6	78·1	61·6	72·4	72·9	70·9	77·0	*73·3*	78·8	80·3	67·2	73·5	68·0
7	75·4	78·7	72·7	69·6	69·2	78·3	84·1	77·3	79·5	73·1	72·9	72·1
8	72·0	72·8	66·6	67·1	73·2	73·3	80·3	79·7	71·6	81·5	69·2	71·4
9	69·9	70·9	64·2	75·5	78·0	82·0	77·7	79·6	69·7	80·1	69·8	70·2
10	*62·2*	70·8	74·6	73·7	75·1	80·0	78·8	84·2	*68·7*	79·8	66·6	66·2
11	62·6	66·9	77·1	79·1	76·2	*70·8*	80·9	88·2	69·8	81·0	72·5	68·9
12	73·0	63·8	75·2	78·3	73·1	77·0	79·5	74·8	70·5	78·2	70·7	72·9
13	78·8	74·2	73·1	72·1	71·9	74·3	84·2	*73·7*	71·8	71·0	73·3	*63·8*
14	74·5	69·3	69·1	78·0	73·1	78·0	83·6	73·9	74·3	79·6	72·4	68·5
15	75·8	65·8	*59·2*	79·8	69·5	76·2	75·3	76·2	85·5	72·8	72·0	72·9
16	65·7	73·0	72·3	78·0	72·8	81·2	78·9	79·8	82·5	74·9	72·9	73·0
17	75·6	*	69·1	78·3	73·0	71·7	84·4	82·5	72·9	72·8	73·0	74·5
18	77·8	72·1	77·7	74·6	73·5	82·6	80·1	87·8	81·6	77·2	74·6	75·9
19	71·0	71·5	71·2	78·5	78·0	74·7	78·8	79·6	73·9	77·4	77·7	75·1
20	73·0	71·8	73·6	74·0	76·8	75·1	82·4	81·8	84·7	72·6	76·5	78·0
21	73·6	72·9	77·1	77·7	74·1	81·5	81·7	74·9	79·1	73·3	69·5	76·1
22	77·6	73·4	76·0	75·0	71·1	74·3	83·0	78·2	78·2	78·0	70·3	78·4
23	72·9	73·7	76·8	79·6	68·7	82·5	83·2	82·5	74·1	75·7	81·3	76·8
24	65·1	74·0	77·1	79·2	69·9	75·3	81·9	79·3	75·4	72·8	74·3	78·0
25	75·1	72·8	74·2	73·7	81·0	80·5	76·3	83·8	70·8	69·8	71·1	76·5
26	70·4	69·8	74·4	72·1	81·4	80·8	85·2	86·1	76·6	77·0	*63·1*	69·8
27	81·2	67·2	72·8	76·5	83·1	76·6	82·4	78·0	77·2	69·8	*63·1*	77·5
28	76·3	65·9	67·7	75·4	81·8	78·8	82·5	85·0	71·6	69·8	73·0	68·8
29	78·4	*59·3*	74·3	78·9	73·2	80·3	81·3	77·1	80·2	71·9	73·3	64·8
30	80·4		63·0	78·9	80·6	83·1	85·4	77·3	77·0	70·6	77·8	73·5
31	78·6		62·3		81·2		83·3	77·6		68·3		67·4
Mean	73·5	71·0	71·2	75·4	75·0	78·3	81·6	80·0	76·2	74·2	72·7	72·5
						Year	75·2					

* Grass minimum not set.

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 18h. on the previous day to 7h. on the day to which it is entered.

Add 0·16° to obtain temperature in degrees Kelvin where $T(°K.) = t°C.) + 273·16$.

POTENTIAL GRADIENT (reduced to level surface)

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

99 ESKDALEMUIR 1944

	JANUARY, factor 5·09				FEBRUARY, factor 5·19				MARCH, factor 5·19			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	volts per metre											
1	50	45	125	70	240	Z-	60	110	130	195	Z±	Z-
2	55	0	-80	130	100	250	120	Z±	395	565	370	310
3	140	75	200	165	Z±	Z-	130	360	145	250	285	240
4	175	240	415	545	95	140	165	235	250	330	235	80
5	330	-25	115	150	135	150	170	315	190	145	180	375
6	45	-35	40	140	145	70	250	225	180	480	225	455
7	110	210	320	460	80	15	180	Z±	390	145	110	230
8	165	Z-	Z-	405	75	130	285	275	445	195	240	515
9	75	100	155	500	105	40	160	-	570	565	500	345
10	415	250	230	635	(80)	(85)	95	200	465	230	240	220
11	125	115	Z-	455	(95)	(135)	220	115	125	80	210	240
12	520	240	Z-	340	110	(5)	315	200	85	125	160	20
13	Z-	120	Z-	160	250	545	140	Z-	Z-	215	275	360
14	120	30	145	220	105	190	115	200	155	180	215	540
15	175	225	340	495	150	265	125	Z-	135	230	230	470
16	435	385	220	245	140	195	300	Z+	335	570	230	(670)
17	170	180	265	530	180	Z-	160	210	(680)	495	210	460
18	360	325	195	60	200	75	195	170	260	275	135	-45
19	205	365	270	Z+	175	115	105	80	165	155	145	200
20	220	210	200	25	100	125	145	190	140	-160	75	255
21	-95	105	225	Z-	80	105	Z+	115	245	50	5	120
22	-110	125	125	Z-	Z+	55	Z-	80	180	-20	425	385
23	140	Z±	140	200	-25	Z-	20	105	135	(50)	85	190
24	100	215	Z±	Z±	50	10	135	140	210	175	220	515
25	Z-	Z-	215	155	110	145	165	575	90	270	220	(355)
26	180	225	300	45	400	(505)	Z+	Z+	(370)	(635)	450	515
27	35	Z-	170	270	205	130	Z±	350	370	225	270	260
28	145	75	105	110	85	175	505	355	325	275	140	210
29	120	65	200	45	320	410	215	395	30	55	210	450
30	90	100	170	160					305	250	175	535
31	145	30	220	480					165	375	210	415
(a)	179	162	204	266	147	163	179	227	255	268	223	343
(b)	178	135	194	261	125	131	205	245	260	248	221	329
Mean	(a) 203		(b) 192		(a) 179		(b) 177		(a) 272		(b) 265	

	APRIL, factor 5·10				MAY, factor 5·05				JUNE, factor 5·06			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
					volts per metre							
1	185	180	210	215	95	135	75	165	130	145	85	175
2	50	-100	95	Z-	Z-	100	Z-	Z-	20	115	95	190
3	125	105	245	5	90	235	130	140	(30)	(110)	200	215
4	-495	Z-	350	225	95	275	Z±	115	Z±	Z±	(375)	80
5	-5	125	125	-140	160	120	Z-	110	60	125	95	170
6	285	100	175	160	70	145	95	255	70	105	100	145
7	70	130	225	160	95	190	170	235	155	190	85	Z-
8	290	15	235	295	130	145	115	180	155	190	170	240
9	160	0	110	Z-	245	170	60	165	210	175	15	180
10	500	510	105	125	Z-	140	135	200	-70	160	105	150
11	125	220	Z-	175	385	180	195	400	115	210	110	170
12	150	110	155	190	460	235	220	355	95	Z-	-	190
13	95	155	Z-	70	205	65	170	110	Z+	275	Z±	265
14	Z±	300	190	195	105	105	95	180	Z-	Z-	150	265
15	-90	Z-	140	235	95	150	160	230	210	155	65	330
16	170	155	140	205	Z-	-90	Z-	Z-	60	190	70	125
17	75	55	60	125	135	125	125	260	185	130	145	135
18	70	110	190	140	55	-50	40	105	40	135	115	245
19	120	Z-	Z-	-85	30	Z-	Z-	35	270	130	220	255
20	145	55	25	Z-	75	110	175	200	105	155	140	140
21	85	85	Z-	110	80	115	130	135	95	105	185	205
22	95	125	145	160	80	50	105	110	150	195	170	100
23	85	110	80	40	255	135	75	140	105	115	115	135
24	95	90	110	135	130	170	90	45	230	215	155	105
25	75	195	150	335	70	175	105	155	(10)	155	110	(-30)
26	190	165	130	(65)	165	310	220	265	(-15)	230	100	210
27	(30)	(20)	125	180	100	140	150	180	225	190	Z±	Z-
28	80	185	185	190	65	235	260	125	Z-	Z-	Z+	305
29	140	200	190	265	110	180	155	250	295	245	105	Z±
30	180	225	200	160	140	145	200	200	250	410	170	415
31					5	100	30	125				
(a)	141	143	157	166	133	156	134	178	136	175	133	198
(b)	144	145	159	151	138	148	134	188	110	166	124	182
Mean	(a) 152		(b) 150		(a) 150		(b) 152		(a) 161		(b) 145	

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.

99 ESKDALEMUIR 1944

	JULY, factor 5·14				AUGUST, factor 5·26				SEPTEMBER, factor 5·36			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	volts per metre											
1	200	150	85	150	-	(130)	175	480	130	210	-	-
2	175	150	35	505	700	385	310	365	-	-	-100	210
3	20	320	130	115	280	310	155	95	195	145	Z-	(-20)
4	105	50	210	235	(260)	360	130	295	(20)	(115)	Z-	Z±
5	195	185	5	310	170	70	100	180	Z-	220	65	140
6	220	190	100	320	95	190	135	255	135	175	115	155
7	255	45	Z-	220	200	315	205	260	10	-5	Z-	75
8	275	270	120	305	-	(55)	Z-	365	-	Z-	Z+	125
9	295	110	235	170	120	170	65	240	150	275	225	320
10	145	150	120	175	100	110	115	310	(40)	115	170	310
11	260	145	210	215	Z-	110	275	210	175	165	130	215
12	110	100	185	130	305	135	165	250	70	225	260	(40)
13	270	310	165	225	230	135	140	450	(25)	(110)	225	310
14	85	100	10	355	120	170	180	250	(35)	(20)	165	40
15	215	100	135	160	225	150	160	270	(30)	(75)	275	125
16	80	100	120	245	155	100	165	310	135	130	180	420
17	320	120	130	300	300	120	110	130	145	150	195	215
18	160	145	175	230	195	85	240	110	325	100	190	325
19	170	140	170	140	240	220	180	35	340	65	10	535
20	30	105	135	100	50	105	135	150	250	320	115	165
21	85	125	110	105	70	100	135	145	235	(45)	185	160
22	65	105	150	100	60	115	100	60	415	(30)	170	-20
23	75	155	190	215	50	50	5	365	110	175	Z±	Z-
24	(30)	150	130	190	(105)	(55)	120	70	55	145	(-10)	-
25	150	225	75	-115	45	60	75	245	-	-	Z±	175
26	155	90	210	315	135	(30)	80	(135)	70	145	120	110
27	225	155	Z±	-5	(20)	(80)	55	-145	100	115	215	180
28	415	215	70	165	Z-	110	80	180	-	135	110	175
29	150	275	(215)	355	155	110	210	325	Z-	80	110	150
30	195	190	195	250	200	Z±	190	Z-	Z-	160	150	280
31	(25)	155	135	335	-	230	Z±	Z-				
(a)	166	156	136	229	176	145	144	233	139	140	161	206
(b)	161	159	136	217	175	149	139	206	157	133	173	212
Mean	(a) 172		(b) 168		(a) 175		(b) 167		(a) 161		(b) 169	

	OCTOBER, factor 5·48				NOVEMBER, factor 5·61				DECEMBER, factor 5·57			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	volts per metre											
1	200	100	Z+	125	190	130	-	-	Z-	60	Z-	150
2	120	310	40	110	-	-	115	260	Z±	Z+	Z+	Z±
3	60	100	Z+	260	150	140	225	250	90	Z-	Z±	155
4	-	50	55	170	175	190	Z-	-30	Z±	Z±	190	Z+
5	120	(10)	170	380	Z-	Z-	Z-	200	Z+	155	155	340
6	165	425	135	220	145	90	175	Z±	225	-85	Z±	Z±
7	385	100	135	145	Z+	Z±	145	245	Z-	230	325	375
8	105	95	-5	165	205	280	75	255	265	Z+	Z+	640
9	30	165	215	(175)	155	245	270	455	455	510	Z+	Z+
10	-	-	120	235	160	280	275	530	185	220	480	55
11	175	230	25	Z-	130	200	140	395	325	265	360	170
12	Z-	175	175	455	160	80	15	170	-290	105	550	360
13	485	Z+	Z-	Z-	145	420	410	Z+	245	355	645	340
14	Z-	15	Z+	215	160	Z±	-	-	235	190	-10	Z±
15	420	380	210	440	-	-	-	-	155	Z-	375	330
16	275	430	185	50	80	Z-	105	190	225	Z+	Z-	Z-
17	45	185	Z-	220	360	Z-	310	255	Z-	50	180	Z±
18	90	125	Z±	Z-	160	105	360	-10	Z+	265	340	360
19	175	75	185	320	-55	65	20	0	320	580	560	380
20	190	Z-	Z-	210	-280	40	285	575	170	155	105	440
21	330	170	(205)	-	285	310	700	615	190	195	445	175
22	-	-	(30)	(20)	Z-	130	275	190	120	155	-	-
23	Z-	250	250	740	140	Z-	180	235	-	-	-	-
24	245	165	300	155	105	130	240	675	-	-	285	490
25	80	155	140	175	185	235	680	495	400	480	345	340
26	90	110	100	Z-	155	205	300	440	420	605	-	-
27	185	310	210	260	190	325	440	Z-	-	-	195	345
28	-	175	115	270	Z±	20	Z±	255	200	250	305	570
29	Z-	170	115	495	125	115	Z-	Z-	455	465	270	105
30	290	260	260	430	170	125	240	180	180	190	430	610
31	375	360	200	390					450	320	365	610
(a)	202	189	155	270	170	175	260	343	265	276	345	350
(b)	212	231	170	244	120	174	273	359	236	298	405	346
Mean	(a) 204		(b) 214		(a) 237		(b) 231		(a) 309		(b) 321	

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.

	(a)	176	179	186	251
	(b)	168	176	194	245
Annual means		(a) 198		(b) 196	

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																									v./m.
	0a days only*																									
Jan.	-19	+17	-14	-44	-66	-50	*-80*	-58	-40	-43	-43	-41	-30	-21	+9	-6	-2	+16	+81	*+112*	+98	+98	+86	+28	+10	6	253
Feb.	-4	-26	-51	-73	-68	-71	*-77*	-72	-60	-49	-13	+6	+11	-6	0	+11	*+98*	+76	+95	+84	+80	+30	+60	+29	-5	7	184
Mar.	-4	-35	-23	-29	-44	-20	-3	+34	+46	+12	-19	-18	*-46*	*-46*	-14	-18	-14	-7	+22	+64	*+108*	+47	+17	-11	+29	10	274
Apr.	+7	-16	*-25*	-13	-18	-10	-21	-13	-7	-18	-19	-13	-7	-3	+11	+16	+15	+22	+20	+8	+26	*+32*	+17	+2	-7	10	163
May	+3	+9	+14	-5	+8	+20	+8	+7	-32	-45	*-49*	-43	-24	-17	-19	-17	-1	-2	+1	+11	+49	*+60*	+41	+26	-28	10	164
June	-15	*-34*	-12	-23	-7	-1	+12	+2	+1	+18	+12	-7	-13	-19	-8	+1	+9	+10	+1	+16	+15	*+24*	+16	+8	+23	9	151
July	-9	-16	-10	-1	+15	+15	+23	-3	-21	-20	-23	-19	*-30*	-25	-17	-22	-17	0	-3	+25	+53	*+64*	+42	+7	-38	10	183
Aug.	+40	+5	-5	+3	-18	+22	+49	-9	-28	-34	-41	*-60*	-58	-45	-40	-42	-28	-2	+19	+74	*+76*	+44	+36	+36	-67	12	214
Sept.	-29	-1	-13	+27	-56	-41	-61	-61	*-63*	+15	+15	-21	-25	-21	-20	0	+3	+34	+81	*+108*	+50	+38	+34	+1	-30	5	207
Oct.	+8	*-26*	-19	-21	*-100*	-75	-80	-40	-44	-52	-22	-59	-16	-27	-4	+21	+37	+85	*+144*	+125	+63	+66	+40	+1	-116	5	237
Nov.	-110	*-164*	-158	*-164*	-148	-144	-117	-84	-57	+12	-16	+21	+34	-53	-4	+133	+106	+180	+147	*+259*	+204	+158	+36	-71	-56	3	292
Dec.	+55	+57	+6	+47	-9	+24	-83	*-129*	-70	-48	-96	-42	-88	-77	-55	-23	-4	-11	+13	+58	*+164*	+110	+95	+116	+142	2	375
Year	-6	-19	-26	-25	*-43*	-28	-36	-35	-31	-21	-26	-25	-24	-30	-13	+5	+17	+33	+52	+79	*+82*	+64	+43	+14	-	-	225
Winter	-19	-29	-54	-59	-73	-60	*-89*	-86	-57	-32	-42	-14	-18	-39	-13	+29	+49	+65	+84	+128	*+137*	+99	+69	+25	-	-	276
Equinox	-5	-19	-20	-9	*-55*	-37	-41	-20	-17	-11	-11	-28	-23	-24	-7	+5	+10	+33	+67	*+77*	+62	+46	+27	-2	-	-	220
Summer	+5	-9	-3	-7	-1	+14	+23	-1	-20	-20	-25	*-32*	-31	-27	-21	-20	-9	+1	+5	+31	*+48*	+48	+34	+19	-	-	178
	1a and 2a days only*																									
Jan.	+23	-3	-23	-3	-34	-24	-29	-49	*-94*	-2	+48	*+56*	+6	-35	-7	+32	+20	+22	-11	+18	+19	+14	+23	+23	-161	5	161
Feb.	-43	-34	-12	-23	-44	-56	-67	-75	-64	-22	-38	+7	-22	+17	+91	*+181*	+96	+46	+100	+16	+52	+9	+9	*-135*	+35	2	132
Mar.	+10	+21	+24	+8	-44	-42	-53	-29	-37	*-53*	-37	-15	-4	-26	-19	-28	-21	-44	+30	+40	*+136*	+109	+52	+20	-28	6	267
Apr.	+10	+35	+3	+6	+6	+40	+58	-6	-28	-14	-43	*-81*	-71	-54	-27	-19	-11	+34	+55	*+72*	+51	+9	-2	-16	-160	4	196
May	-13	*-58*	-44	-40	-38	+9	*+35*	+29	+30	+26	-8	-1	+5	+7	+1	+5	+8	-11	+8	+26	+33	+9	-2	-17	+6	9	132
June	+23	-22	-43	-16	+20	+51	+25	+44	+20	-8	-39	-48	*-50*	-43	-38	-45	-33	0	-6	0	+35	*+68*	+58	+44	-17	6	132
July	+21	-13	+14	+22	+46	+23	+24	*-44*	-33	-37	-38	-38	-22	-42	-38	-39	-23	-13	+12	+32	+49	+44	*+61*	+29	-9	10	159
Aug.	-15	-2	+10	+7	+21	+48	*+120*	+47	+11	-4	-27	-14	-34	-32	-23	*-37*	-26	-16	-23	-13	+15	+14	-9	-7	-1	5	149
Sept.	-39	*-69*	-39	-46	-44	-48	-10	-21	+28	+22	+8	+18	+1	+8	+40	+31	+49	+31	+27	+14	*+78*	-14	+1	-26	0	5	129
Oct.	*-53*	-5	+26	-14	-33	-39	-39	-6	+21	+42	+31	+5	-49	-49	-46	+3	+8	+12	+45	+48	*+81*	+46	+2	-45	+67	6	178
Nov.	-15	-81	-110	*-222*	-162	-156	-126	-92	-106	-187	-57	-15	-39	+99	+63	+69	+159	*+246*	+218	+233	+203	+32	+69	-20	-20	3	251
Dec.	+9	+24	+15	+32	+33	+26	+43	+46	+19	+22	+18	+36	-56	-41	+78	*+101*	-80	-56	-60	*-117*	-82	-50	+17	+24	+96	5	305
Year	-7	-17	-15	-24	-23	-14	-2	-13	-19	-18	-15	-7	*-28*	-16	+6	+21	+12	+21	+33	+31	*+56*	+24	+23	-11	-	-	183
Winter	-7	-23	-33	-54	-52	-53	-45	-43	*-61*	-47	-7	+21	-28	+10	+56	*+96*	+49	+65	+62	+37	+48	+1	+29	-27	-	-	212
Equinox	-18	-5	+3	-11	-29	-22	-11	-15	-4	-1	-10	-18	*-31*	-30	-13	-3	+6	+8	+39	+43	*+87*	+37	+13	-17	-	-	193
Summer	+4	-24	-16	-7	+12	+33	*+51*	+19	+7	-6	-28	-25	-25	-27	-25	*-29*	-19	-10	-2	+11	+33	+34	+27	+12	-	-	143

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	1a	0·1	2b	5·5	1b	1·8	1a	1·4	1a	1·6	1a	1·8
2	2b	5·8	2b	3·5	0a	···	2b	6·8	2c	10·1	1a	0·5
3	1b	0·7	2c	8·1	0a	···	2c	7·9	1a	0·2	(2c)	4·8
4	0a	···	1b	0·2	1b	0·1	2c	4·8	2c	5·1	2c	6·9
5	1a	0·5	0a	···	0a	···	2b	3·7	2b	3·4	1a	1·4
6	2b	4·7	0a	···	1a	0·1	0a	···	1a	0·1	2b	3·6
7	1b	2·4	2c	4·0	1b	2·4	0a	···	0a	···	1b	1·3
8	2c	10·4	0a	···	1a	0·1	1a	0·5	0a	···	0a	···
9	1b	1·3	1b	2·0	1b	0·7	1b	1·8	1b	2·1	1a	0·4
10	0a	···	0a	···	0a	···	1a	0·1	1b	2·8	1a	1·6
11	1b	0·9	0a	···	0a	···	1b	0·6	0a	···	1b	0·4
12	1b	0·8	1a	0·1	1a	1·1	0a	···	0a	···	(2c)	–
13	2c	10·2	1b	2·7	1b	0·3	1b	1·5	0a	···	2c	4·7
14	1a	0·2	0a	···	0a	···	1b	1·5	0a	···	2c	3·9
15	0a	···	2b	3·5	0a	···	2b	6·1	1b	0·2	1b	0·5
16	0a	···	0b	···	0a	···	0a	···	2c	15·8	0a	···
17	1b	1·9	1b	2·9	1b	0·5	1a	1·4	1b	0·9	0a	···
18	1a	1·5	0a	···	1b	2·9	0a	···	2b	3·8	0a	···
19	1b	0·1	0a	···	1b	0·5	2c	12·4	2c	14·6	0a	···
20	1c	2·5	1a	0·5	1b	2·9	1b	2·1	1a	0·2	0a	···
21	2c	6·9	1b	1·1	1b	2·7	1b	1·2	0a	···	0a	···
22	2c	9·7	2b	5·2	1a	1·6	1b	0·9	0a	···	0a	···
23	1c	2·1	2b	7·7	(0a)	···	1b	1·8	0a	···	0a	···
24	2c	6·9	1b	1·7	0b	···	1b	1·7	1a	0·3	1a	0·2
25	2c	5·5	0a	···	0a	···	0a	···	2b	5·5	2b	3·1
26	2b	3·0	1c	0·3	0a	···	0a	···	1b	0·5	2b	4·9
27	2b	3·0	(1b)	–	1a	0·1	(0a)	···	0a	···	2b	1·9
28	1a	0·3	1b	0·1	1a	0·3	0a	···	1a	0·1	2c	8·6
29	0a	···	1b	1·9	1b	0·8	0a	···	1a	0·1	1b	2·1
30	0a	···			1a	0·2	0a	···	1a	0·2	1b	1·5
31	1b	1·3			1b	0·6			2a	3·5		
Total	–	82·7	–	51·0	–	19·7	–	58·2	–	71·1	–	54·1
No. of days used	–	31	–	28	–	31	–	30	–	31	–	29
Mean	–	2·7	–	1·8	–	0·6	–	1·9	–	2·3	–	1·9

	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	1·5	0a	···	(1a)	0·2	1b	1·0	(0a)	···	2c	14·8
2	1b	2·4	0a	···	(2b)	–	1b	2·7	1a	0·4	2c	3·9
3	1b	2·5	0a	···	2b	6·2	1b	1·2	1b	0·3	2c	8·4
4	1a	1·9	0a	···	2c	5·5	2b	4·9	2c	12·0	1c	2·3
5	1a	0·8	0a	···	2b	5·5	1a	0·2	2c	10·4	1c	1·6
6	1a	0·1	1a	0·3	2a	4·8	1a	0·1	2c	6·2	2c	6·1
7	1b	1·7	0a	···	2c	12·0	0a	···	2c	3·6	1b	0·9
8	0a	···	1b	1·5	2c	3·4	1a	1·9	1b	0·5	1b	0·5
9	1a	0·5	1a	0·2	0a	···	0a	···	0a	···	0b	···
10	1b	1·3	0a	···	1a	0·1	0a	···	0a	···	1a	0·3
11	0a	···	2b	4·1	0a	···	2c	7·1	1b	1·9	2b	3·3
12	1a	0·1	0a	···	1a	0·1	2c	5·4	1a	2·7	2b	4·1
13	0a	···	0a	···	0a	···	2c	10·8	2b	3·2	0b	···
14	1a	1·0	0a	···	1a	0·5	2c	4·7	(2c)	–	2c	9·7
15	1a	0·5	0a	···	1b	1·1	1a	0·2	(2c)	–	2b	4·1
16	0a	···	1b	0·1	1a	0·3	2b	3·5	2c	3·7	2c	6·8
17	0a	···	1a	0·3	0a	···	2c	4·0	2c	6·0	2c	9·9
18	0a	···	1b	2·1	0a	···	1b	2·9	2b	4·0	1b	2·1
19	0a	···	1a	0·3	1b	1·7	1a	0·6	2b	6·9	1b	2·1
20	1a	0·7	1a	0·2	1b	0·9	2c	10·3	2c	7·6	2b	5·1
21	1a	0·1	0a	···	0a	···	1a	0·3	1b	0·1	1a	0·3
22	0a	···	1a	0·1	2b	3·2	1a	0·1	2c	7·5	(1a)	–
23	0a	···	2b	3·5	2c	4·3	(1b)	2·5	1b	0·8	(1a)	–
24	(0a)	···	0a	···	2b	4·1	0a	···	1a	1·0	(1a)	–
25	1b	2·2	(1a)	0·1	1b	0·9	1a	1·8	1a	0·3	1a	0·2
26	1b	0·6	1a	0·6	1a	1·0	1b	2·8	0a	···	(2b)	–
27	1b	2·3	2b	4·7	1b	0·7	1b	0·5	2b	3·3	(2c)	–
28	1a	0·2	2c	6·2	1a	0·3	1b	1·9	2c	4·8	0a	···
29	1b	0·6	0a	···	2c	6·7	1b	1·3	2c	6·3	1a	1·1
30	0a	···	2c	–	1b	1·8	0a	···	1b	2·5	1a	0·1
31	(0a)	···	2c	–			0a	···			0a	···
Total	–	21·0	–	24·3	–	65·3	–	72·7	–	96·0	–	87·7
No. of days used		31		29		29		31		28		26
Mean		0·7		0·8		2·3		2·3		3·4		3·4

Annual values: Character frequency 0 1 2
No. of days used 104 167 95

Duration: Total 703·8 hr.
No. of days 354
Mean 1·99 hr.

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

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

102 ESKDALEMUIR (H) — 16,000γ (0·16 C.G.S. unit) + — JANUARY 1944

	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	502	510	513	518	522	521	524	531	521	508	511	513	515	522	470	479	489	495	510	507	490	505	502	504	*508*
2	500	497	502	505	509	513	517	518	516	514	510	507	509	517	521	509	517	521	515	509	503	509	514	514	511
3 q	517	514	514	514	514	519	517	517	517	514	516	515	517	515	518	525	524	524	524	521	518	517	517	514	518
4 q	514	525	512	516	514	521	525	525	523	521	519	522	526	529	531	529	526	526	525	526	521	522	517	514	522
5	554	501	506	510	517	509	523	528	523	513	517	521	525	526	525	507	499	509	521	516	517	515	521	518	518
6 q	515	514	515	516	519	521	523	524	522	515	510	512	515	516	528	531	530	529	523	521	510	512	509	514	519
7 q	524	515	517	519	521	524	523	526	525	521	521	521	520	525	526	526	526	523	520	521	521	524	524	522	522
8	524	522	519	522	528	530	530	532	524	521	516	515	518	521	524	518	510	521	522	521	524	521	521	522	522
9	521	534	522	518	524	532	535	534	531	531	533	529	528	535	534	528	521	512	522	524	524	520	515	526	*526*
10	514	517	519	524	525	528	530	532	536	541	537	527	524	522	525	523	518	519	522	525	507	527	545	494	524
11 d	499	502	510	529	535	521	529	529	521	497	504	521	518	514	517	499	484	480	479	495	513	521	515	514	510
12	499	501	511	516	508	509	532	521	494	510	517	497	497	503	498	487	501	511	506	512	517	517	517	527	509
13 d	545	514	505	518	518	517	510	520	508	496	505	502	498	477	517	516	510	496	487	507	506	521	537	514	510
14 d	503	509	517	521	523	513	528	519	524	514	482	499	502	501	500	494	516	474	501	495	505	524	510	517	508
15 d	517	508	505	524	512	521	517	518	517	514	512	506	501	507	510	475	509	502	518	481	521	487	542	502	509
16 d	502	516	509	510	512	516	517	509	510	502	499	504	502	508	486	510	479	513	506	510	517	516	521	524	508
17	525	514	508	512	521	521	521	521	521	523	511	497	490	509	492	514	514	515	520	506	501	510	510	534	513
18	515	514	517	519	525	529	522	519	519	486	465	501	498	505	516	502	506	505	506	518	510	498	522	517	510
19	514	514	514	517	520	522	524	528	512	521	521	517	512	510	510	512	502	517	517	525	523	521	528	532	518
20	514	514	521	521	521	525	529	519	521	521	508	498	502	504	514	508	517	514	502	516	510	525	525	517	515
21	517	525	517	517	514	517	521	522	523	516	506	505	504	512	510	518	524	526	517	514	516	521	522	520	517
22	540	530	517	521	521	523	529	529	521	515	511	509	510	510	517	518	517	517	518	515	517	519	519	521	519
23	519	523	521	521	522	525	528	530	530	520	510	510	510	514	520	522	525	525	525	523	511	513	519	537	521
24	524	517	518	521	524	526	528	530	527	516	510	512	515	523	521	520	510	521	528	529	528	529	529	530	522
25	529	529	528	527	526	528	531	533	530	525	521	523	530	529	518	517	521	519	527	528	523	511	521	521	525
26	524	523	525	526	529	532	533	534	533	525	514	517	525	543	548	548	538	521	512	495	501	494	498	498	522
27	494	503	506	510	514	517	520	517	514	503	503	510	511	528	527	522	522	521	519	490	502	521	521	517	513
28	517	518	514	514	525	521	524	526	529	522	519	512	519	522	521	522	523	523	524	517	525	519	519	521	521
29	516	517	521	521	521	521	521	526	523	517	519	519	518	526	516	506	517	521	524	526	521	518	520	521	520
30 q	518	521	521	526	522	521	525	525	523	517	517	517	517	517	523	522	525	521	522	523	521	517	520	521	521
31	521	525	526	522	525	529	530	530	529	525	522	521	525	526	526	521	511	515	518	508	504	506	506	505	520
Mean	517	516	515	519	520	522	525	*525*	521	516	*512*	512	513	517	516	514	514	514	515	514	514	515	519	518	517

MAGNETIC DECLINATION (WEST)

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

103 ESKDALEMUIR (D) — 12° + — JANUARY 1944

	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	24·5	27·7	27·6	27·7	27·2	28·5	26·9	27·0	27·3	26·4	26·9	29·1	30·6	31·7	32·3	35·0	37·8	34·1	29·6	30·0	18·2	23·2	23·8	23·1	*28·2*
2	23·6	24·5	25·6	25·1	25·8	26·1	26·5	26·5	26·4	27·3	28·3	29·1	30·3	29·9	29·6	29·8	28·1	28·2	28·3	27·4	21·6	24·5	25·9	26·3	26·9
3 q	27·4	26·8	26·4	26·6	26·8	26·3	26·6	26·6	26·6	27·0	27·9	29·1	29·7	29·2	28·6	27·7	27·3	27·0	27·2	27·1	26·7	26·4	25·9	25·8	27·2
4 q	25·5	26·0	24·9	24·1	24·2	25·0	25·6	26·8	26·7	27·8	28·8	29·1	29·9	29·7	28·9	29·5	28·8	29·5	27·9	27·8	26·0	25·8	26·1	23·3	27·0
5	23·7	21·4	23·2	25·2	26·2	27·2	26·2	26·8	26·5	28·9	29·8	28·7	29·9	29·5	29·4	29·2	28·6	26·7	24·7	27·1	26·5	23·2	25·2	25·8	26·7
6 q	26·3	26·1	26·7	27·1	26·9	27·0	26·9	26·8	26·3	26·9	27·7	27·9	29·5	30·8	29·9	29·1	29·0	28·3	28·5	27·7	23·1	22·1	23·1	25·8	27·1
7 q	27·7	26·7	26·5	25·9	26·0	26·0	25·6	25·9	25·9	27·7	27·7	28·0	29·4	30·2	28·9	27·7	27·6	27·8	26·4	26·8	25·9	26·0	26·6	26·8	27·1
8	27·4	26·8	26·3	26·7	27·1	26·3	26·7	26·0	26·2	27·5	28·9	30·4	31·5	32·1	31·3	29·8	28·1	28·6	26·8	25·3	22·9	25·6	25·7	26·2	27·5
9	25·5	26·2	25·8	24·4	26·0	26·7	26·7	26·8	26·7	27·3	28·4	27·7	28·5	29·2	28·8	28·7	29·5	27·5	28·5	27·2	26·7	25·7	25·7	19·5	26·8
10	25·7	26·3	26·9	27·2	27·3	27·0	26·9	26·8	26·9	28·1	28·1	28·0	28·6	30·6	29·5	29·3	27·5	28·1	28·0	27·1	24·0	24·5	9·8	9·6	25·9
11 d	23·2	23·1	27·5	22·9	24·1	28·4	27·8	28·9	27·7	28·7	28·9	28·2	28·9	28·7	28·9	29·3	25·5	−0·3	9·0	24·9	19·4	20·9	22·2	25·0	*24·2*
12	21·9	25·2	27·3	26·5	25·0	30·1	30·6	30·9	31·2	29·4	29·6	29·4	27·8	29·6	27·5	20·3	29·3	27·1	21·2	24·8	25·8	24·5	25·1	21·1	26·7
13 d	22·8	23·8	25·7	23·1	25·9	26·8	28·1	30·8	29·5	30·3	30·9	28·9	28·7	30·8	24·9	28·0	27·6	26·2	16·8	11·8	20·4	24·8	22·2	22·2	25·5
14 d	23·9	29·2	30·4	28·2	26·4	27·8	30·0	30·4	29·2	29·7	30·7	29·8	31·2	27·5	31·2	25·7	23·2	9·0	21·3	27·1	22·6	19·6	22·4	23·8	26·3
15 d	32·2	26·9	31·2	29·9	23·0	27·4	27·6	28·7	26·9	27·2	28·0	28·6	28·8	29·3	28·3	23·1	25·9	28·5	18·5	10·7	11·9	16·0	16·5	19·0	24·8
16 d	24·3	31·1	23·7	23·8	26·4	27·3	28·0	26·5	28·5	27·7	26·9	28·6	30·1	29·1	23·0	23·2	21·1	15·8	27·3	27·0	22·3	22·3	20·5	23·3	25·3
17	25·1	26·3	27·7	26·0	27·2	32·0	28·8	30·5	29·1	27·7	29·9	29·9	28·5	29·5	23·3	26·2	27·3	23·8	25·1	22·9	14·0	19·5	24·2	26·3	26·3
18	25·1	25·8	26·8	27·8	29·4	28·4	28·0	28·0	28·2	30·3	34·0	31·2	29·6	26·8	28·1	23·8	14·9	26·0	27·5	15·8	18·7	21·7	24·2	26·3	26·1
19	27·8	26·2	32·2	32·0	27·0	27·4	27·0	27·9	26·7	27·3	27·8	28·1	28·8	28·7	28·2	28·0	20·8	25·4	25·6	24·4	26·0	25·8	25·0	24·5	27·0
20	22·7	25·1	27·7	27·5	27·9	27·6	27·5	27·0	26·8	26·8	28·2	29·5	30·5	30·6	29·4	28·6	26·7	27·7	25·2	23·8	23·1	19·5	18·3	24·2	26·3
21	24·6	27·8	26·3	28·0	26·2	26·8	26·7	26·3	26·0	25·3	26·8	28·5	29·6	29·2	28·1	26·9	26·9	26·1	25·5	24·4	25·7	25·5	25·5	25·1	26·6
22	26·4	22·4	24·6	25·2	26·0	26·9	27·3	26·9	25·9	25·4	26·9	28·3	29·2	29·9	29·8	28·5	28·1	27·3	27·3	26·0	22·1	25·2	25·1	25·9	26·5
23	26·3	28·2	28·2	27·7	25·7	25·4	26·0	26·1	26·0	26·2	26·7	27·7	28·1	28·6	28·3	26·8	26·5	26·0	25·9	25·7	25·5	24·9	24·1	26·2	26·5
24	22·5	25·0	26·2	26·7	26·7	26·6	26·2	25·9	26·0	25·4	26·3	27·8	28·9	29·6	28·9	27·8	27·1	29·5	27·7	26·6	26·0	25·5	25·0	25·7	26·7
25	26·5	26·8	27·1	27·0	27·2	27·0	26·5	25·9	25·2	25·0	26·7	28·6	29·2	30·0	30·3	29·6	29·3	27·3	26·7	26·2	26·0	20·5	23·2	25·2	26·8
26	26·3	26·7	27·0	26·9	27·0	26·8	26·6	26·1	25·7	26·0	26·8	28·1	30·3	31·2	30·8	29·5	30·3	30·7	30·1	30·8	32·7	19·8	10·5	18·6	26·5
27	22·4	24·1	24·9	26·6	24·4	24·5	24·8	25·3	25·5	26·6	28·7	30·4	30·6	29·9	29·6	28·4	27·6	28·7	25·5	24·0	23·9	27·7	24·5	24·0	26·4
28	22·4	22·5	24·5	24·1	24·8	24·9	26·7	26·7	26·3	26·5	28·6	27·2	28·6	30·4	30·7	29·5	29·3	29·1	28·7	28·6	22·5	25·4	24·3	24·1	26·5
29	25·3	25·7	25·4	25·9	26·7	27·1	26·6	25·6	25·5	25·7	27·3	28·1	28·4	30·4	30·5	30·8	30·9	30·5	28·6	26·9	26·0	23·2	24·4	25·2	27·1
30 q	25·0	25·1	25·5	26·7	24·5	25·5	26·0	26·0	26·0	26·1	27·1	27·8	28·6	29·6	30·2	28·7	29·1	29·6	29·4	28·4	26·7	23·9	25·1	25·1	26·9
31	25·5	26·0	25·1	25·4	26·0	26·0	26·4	26·3	25·2	25·5	26·3	27·3	28·9	29·9	30·6	30·0	32·1	33·5	32·2	27·7	27·8	23·5	19·4	20·4	27·0
Mean	25·1	25·9	26·6	26·4	26·2	27·0	27·0	27·2	26·9	27·2	28·3	28·7	29·4	*29·7*	29·0	28·0	27·5	26·2	25·8	25·2	23·3	23·4	*22·9*	23·7	26·5

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

104 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — JANUARY 1944

	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	1073	1078	1086	1088	1091	1092	1092	1087	1087	1097	1097	1096	1095	1097	1121	1162	1148	1139	1129	1121	1136	1117	1110	1104	*1106*
2	1101	1099	1099	1099	1098	1097	1097	1097	1097	1094	1094	1094	1097	1097	1098	1103	1103	1099	1102	1104	1109	1103	1098	1096	1099
3 q	1093	1093	1094	1095	1095	1094	1094	1094	1093	1093	1093	1094	1095	1097	1098	1097	1096	1097	1097	1097	1097	1098	1098	1097	1095
4 q	1097	1091	1092	1092	1093	1092	1092	1092	1092	1092	1092	1092	1092	1094	1097	1093	1094	1095	1096	1096	1099	1104	1103	1103	1095
5	1075	1070	1082	1086	1085	1087	1088	1087	1088	1091	1093	1094	1090	1092	1093	1099	1105	1108	1105	1102	1099	1102	1097	1093	1092
6 q	1092	1092	1091	1091	1091	1091	1091	1091	1093	1093	1097	1096	1096	1098	1098	1093	1093	1096	1097	1103	1106	1105	1104	1095	
7 q	1096	1094	1097	1096	1093	1091	1090	1089	1090	1092	1096	1097	1094	1093	1092	1092	1092	1093	1096	1095	1097	1097	1096	1094	1094
8	1093	1093	1092	1091	1088	1087	1085	1085	1086	1087	1091	1093	1088	1091	1098	1100	1103	1099	1098	1098	1097	1093	1093	1093	1093
9	1094	1081	1079	1083	1086	1085	1085	1085	1085	1086	1087	1087	1086	1087	1092	1093	1094	1100	1098	1097	1095	1096	1096	1093	*1090*
10	1090	1091	1091	1090	1088	1087	1086	1085	1085	1085	1087	1088	1090	1090	1093	1095	1096	1097	1097	1096	1104	1098	1090	1067	1090
11 d	1075	1081	1079	1064	1060	1072	1079	1080	1086	1090	1093	1092	1091	1096	1099	1108	1123	1153	1134	1114	1106	1087	1085	1084	1093
12	1085	1085	1085	1088	1086	1086	1082	1086	1093	1099	1098	1102	1109	1108	1114	1135	1123	1114	1118	1109	1099	1098	1098	1093	1100
13 d	1073	1051	1073	1079	1081	1079	1084	1085	1087	1093	1093	1098	1104	1117	1120	1111	1110	1115	1129	1118	1097	1081	1078	1077	1093
14 d	1086	1084	1078	1077	1084	1086	1083	1082	1085	1087	1094	1094	1095	1110	1120	1129	1124	1150	1126	1109	1109	1099	1092	1086	1099
15 d	1061	1067	1073	1070	1074	1079	1082	1085	1091	1091	1087	1089	1092	1097	1099	1118	1114	1115	1117	1126	1105	1094	1063	1068	1090
16 d	1078	1056	1073	1082	1085	1087	1087	1091	1093	1098	1104	1105	1103	1105	1124	1128	1131	1123	1108	1105	1104	1099	1090	1082	1098
17	1063	1063	1079	1085	1085	1079	1080	1081	1083	1089	1093	1097	1104	1105	1120	1117	1109	1110	1106	1105	1111	1102	1096	1083	1094
18	1085	1088	1090	1090	1086	1081	1085	1087	1090	1097	1099	1102	1105	1109	1105	1110	1117	1110	1108	1110	1102	1098	1090	1081	1097
19	1081	1086	1081	1077	1085	1086	1088	1088	1091	1093	1094	1096	1097	1097	1097	1099	1109	1105	1100	1099	1097	1097	1094	1083	1093
20	1085	1087	1087	1085	1087	1088	1090	1091	1091	1092	1093	1097	1097	1099	1099	1103	1102	1102	1107	1106	1106	1099	1094	1092	1095
21	1092	1087	1086	1087	1090	1091	1091	1091	1091	1093	1093	1097	1097	1099	1103	1100	1098	1097	1098	1100	1098	1097	1097	1096	1095
22	1087	1079	1082	1085	1086	1088	1090	1090	1092	1092	1092	1093	1094	1097	1098	1098	1098	1097	1098	1098	1099	1096	1095	1093	1092
23	1092	1091	1087	1087	1088	1088	1087	1087	1090	1094	1096	1095	1093	1091	1094	1097	1096	1093	1093	1093	1097	1098	1095	1081	1092
24	1079	1085	1087	1090	1091	1091	1090	1090	1090	1093	1093	1094	1095	1093	1096	1098	1103	1096	1093	1091	1091	1091	1091	1090	1092
25	1090	1090	1090	1090	1089	1087	1087	1085	1086	1085	1082	1085	1087	1091	1094	1098	1098	1097	1095	1092	1093	1099	1091	1091	1091
26	1091	1091	1091	1091	1090	1088	1087	1086	1087	1088	1089	1089	1086	1082	1082	1086	1091	1098	1105	1127	1139	1106	1105	1091	1094
27	1091	1087	1090	1094	1096	1093	1092	1092	1091	1091	1092	1091	1091	1095	1097	1099	1098	1099	1101	1112	1115	1109	1098	1097	1096
28	1097	1088	1087	1091	1091	1090	1086	1084	1083	1086	1086	1091	1091	1092	1097	1098	1099	1098	1099	1103	1100	1097	1096	1095	1093
29	1093	1093	1092	1093	1092	1091	1091	1091	1091	1091	1090	1090	1091	1090	1097	1100	1100	1101	1101	1099	1098	1100	1097	1094	1094
30 q	1094	1093	1092	1087	1088	1090	1089	1087	1087	1088	1087	1088	1088	1086	1091	1093	1096	1097	1097	1097	1098	1099	1098	1097	1092
31	1096	1093	1092	1091	1092	1091	1088	1087	1088	1086	1085	1081	1081	1084	1091	1097	1098	1099	1104	1117	1123	1121	1115	1106	1096
Mean	1086	*1084*	1086	1087	1087	1087	1088	1088	1089	1091	1092	1093	1094	1096	1101	1105	1105	*1106*	1105	1104	1104	1099	1095	1091	1095

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

105 ESKDALEMUIR — JANUARY 1944

	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 12° +	Minimum 12° +	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	13 31	535	436	14 42	99	16 32 *40·9*	10·6 20 40	30·3	15 45	*1178*	1068	0 30	110	3,1,2,2,4,4,4,2	22	1 82·8
2	7 11	528	491	20 5	37	12 23 31·5	19·1 20 15	12·4	20 20	1111	1093	10 5	18	2,2,2,0,1,2,3,2	14	0 82·7
3 q	15 16	526	507	13 54	19	12 33 30·3	25·4 22 40	*4·9*	14 5	1099	1091	8 35	*8*	1,0,0,1,2,0,0,0	4	0 82·6
4 q	24 0	541	507	23 46	34	12 27 30·3	14·3 24 0	16·0	21 2	1105	1088	1 40	17	2,1,1,1,0,1,2,3	11	0 82·7
5	0 16	*621*	463	1 1	*158*	9 56 31·3	11·6 0 8	19·7	17 42	1111	1062	0 50	49	5,2,2,2,1,3,3,2	20	1 82·7
6 q	15 39	538	502	23 30	36	13 31 31·4	20·9 21 3	10·5	21 32	1109	1090	6 28	19	1,1,1,0,1,2,2,2	10	0 82·7
7 q	0 54	530	512	9 44	*18*	13 39 30·6	24·8 5 54	5·8	11 30	1098	1087	7 12	11	2,1,1,2,1,2,1,1	11	0 82·6
8	4 20	536	502	16 4	34	13 19 33·1	20·6 20 27	12·5	16 10	1104	1085	7 51	19	1,1,1,1,1,2,2,1	10	0 82·6
9	1 4	560	499	17 8	61	16 57 30·3	16·5 23 20	13·8	17 37	1103	1077	2 41	26	3,1,1,1,1,3,1,3	14	0 82·6
10	22 52	607	494	23 36	113	13 15 31·4	−2·9 22 50	34·3	20 27	1105	1061	23 21	44	1,1,2,2,2,2,3,5	18	1 82·6
11 d	3 49	545	432	17 29	113	15 22 31·0	*−14·5* 17 41	*45·5*	17 32	1171	1057	4 32	*114*	3,3,2,4,2,6,6,3	29	1 82·6
12	23 39	552	443	14 50	109	8 2 32·2	14·6 15 16	17·6	15 29	1139	1081	6 24	58	3,3,3,3,4,4,3,3	26	1 82·5
13 d	0 41	573	431	13 54	142	13 18 35·7	6·1 19 41	29·6	18 35	1144	*1045*	1 9	99	4,3,3,3,4,3,5,4	29	1 82·5
14 d	16 6	542	*400*	17 23	142	7 15 34·0	−7·5 17 49	41·5	17 27	1160	1074	3 0	86	3,2,2,3,3,6,4,3	26	1 82·3
15 d	22 33	557	439	19 18	118	0 17 36·1	−1·2 19 56	37·3	19 40	1132	1051	0 50	81	3,3,3,2,3,3,5,5	27	1 82·6
16 d	22 5	555	439	14 26	116	1 4 35·3	9·7 17 10	25·6	16 50	1136	1050	1 35	86	3,2,3,3,4,4,3,3	25	1 82·6
17	23 22	545	470	12 17	75	5 26 34·8	10·3 20 48	24·5	14 39	1124	1060	1 2	64	3,3,2,3,3,3,4,3	24	1 82·7
18	19 53	553	443	10 12	110	10 32 36·0	10·6 19 39	25·4	16 16	1120	1049	5 9	71	1,2,2,4,3,4,4,3	23	1 82·7
19	23 0	545	471	16 23	74	2 59 36·4	16·1 16 28	20·3	16 36	1111	1075	3 18	36	3,3,2,1,1,3,3,3	19	1 82·8
20	21 39	548	494	11 30	54	13 45 31·7	13·3 22 1	18·4	18 50	1110	1082	3 11	28	3,1,2,2,2,3,3,3	19	1 82·8
21	1 20	529	501	14 49	28	1 37 29·8	20·6 19 5	9·2	14 52	1104	1083	1 59	21	2,1,2,1,2,2,2,1	13	0 82·9
22	0 36	563	505	12 4	58	13 30 30·4	19·6 20 9	10·8	20 19	1102	1075	1 23	27	3,1,1,1,1,1,3,1	12	0 82·9
23	23 32	567	502	21 7	65	1 37 29·8	22·2 22 43	7·6	21 10	1099	1069	23 46	30	2,2,2,1,1,0,2,4	14	0 82·8
24	19 20	534	498	16 31	36	17 20 30·5	20·4 0 38	10·1	16 32	1105	1073	0 1	32	2,1,1,0,1,2,1,0	8	0 83·0
25	22 7	545	503	21 30	42	14 30 30·6	14·9 21 42	15·7	21 57	1101	1080	10 0	21	0,0,0,0,2,2,1,3	8	0 83·1
26	15 48	557	474	22 8	83	13 39 32·3	5·3 22 27	27·0	20 29	1148	1080	14 1	68	1,1,1,1,2,3,4,4	17	1 83·1
27	21 50	541	481	19 53	60	21 59 32·2	20·7 0 5	11·5	20 18	1118	1085	2 5	33	3,2,1,3,3,2,3,3	20	1 83·1
28	20 21	545	503	20 1	42	14 39 31·4	17·8 1 1	13·6	20 11	1105	1082	7 30	23	2,2,2,2,1,2,3,1	15	0 83·1
29	13 13	529	499	15 19	30	17 3 31·8	21·3 21 5	10·5	15 29	1103	1086	13 3	17	2,0,0,1,2,2,2,2	11	0 83·1
30 q	3 22	530	510	9 33	20	14 31 30·5	22·1 21 44	8·4	21 50	1102	1085	13 35	17	1,2,1,1,1,1,1,2	10	0 83·1
31	7 26	533	497	21 20	36	16 56 34·1	17·6 22 8	16·5	20 15	1127	1079	12 40	48	1,1,1,1,1,2,2,3	12	0 83·1
Mean	- -	549	479	- -	70	- - 32·5	13·6 - -	18·9	- -	1119	1074	- -	45	2·1	16·8	0·48 82·8

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.

106 ESKDALEMUIR (H) — 16,000γ (0·16 C.G.S. unit) + — FEBRUARY 1944

	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	508	506	510	515	517	521	521	521	519	513	510	507	508	514	520	524	525	523	521	514	517	515	518	519	516
2	522	521	518	518	518	522	533	529	515	521	519	515	517	519	519	519	522	525	525	524	517	511	518	513	520
3 q	514	518	518	519	524	522	524	525	525	528	521	519	518	521	522	522	523	525	522	523	523	528	525	526	522
4	524	524	525	529	537	535	534	536	539	541	542	535	528	525	523	533	531	521	517	515	529	530	525	528	529
5	525	525	526	528	529	530	532	534	534	534	534	528	526	531	534	533	533	529	517	514	518	517	530	528	528
6	518	523	525	526	526	528	530	530	530	533	530	523	520	518	520	519	524	529	533	533	533	533	530	530	527
7 d	541	533	531	534	540	549	541	550	548	515	494	512	490	475	462	470	494	482	511	485	530	528	495	478	512
8 d	515	490	502	509	505	499	521	519	511	508	501	501	501	479	505	499	494	498	520	525	542	559	498	508	509
9 d	510	514	517	521	523	524	510	530	514	503	490	484	484	485	492	501	517	489	502	532	514	517	517	528	509
10	523	517	519	531	510	533	517	514	514	510	485	509	505	504	517	510	506	509	517	526	508	518	514	525	514
11	524	506	524	508	517	530	525	507	504	490	480	491	486	506	514	494	519	523	517	514	521	528	525	510	511
12	510	517	517	514	531	528	525	522	519	516	503	503	503	487	498	521	517	523	523	514	517	525	521	521	516
13	520	521	522	522	523	524	525	524	522	518	519	515	510	505	514	516	512	513	519	524	537	540	523	557	522
14 d	506	494	502	491	582	505	517	490	482	458	474	500	474	472	482	504	508	508	510	509	524	517	513	515	502
15 d	522	498	521	501	521	510	514	517	520	510	505	492	490	501	510	513	511	498	510	506	509	518	524	510	510
16	510	514	513	514	515	517	510	505	511	505	499	504	510	517	515	507	517	514	517	518	521	528	519	525	514
17	530	519	519	517	519	521	521	519	516	510	511	514	515	514	506	515	514	522	524	523	514	525	520	521	518
18 q	519	516	514	515	518	521	522	521	521	521	510	505	505	518	525	525	525	525	526	526	525	526	526	524	520
19	525	523	523	525	529	530	529	529	529	520	517	510	517	521	523	525	526	525	527	528	529	528	526	525	525
20	525	521	523	527	529	533	537	541	538	532	514	515	524	503	497	510	519	509	506	502	493	506	506	526	518
21	505	510	510	513	506	521	525	519	517	507	498	511	512	512	517	507	515	517	521	523	521	521	515	510	514
22	517	530	514	513	522	518	521	525	525	522	521	514	513	518	520	519	518	519	521	524	525	525	521	521	520
23	522	521	521	521	520	525	525	526	529	526	522	521	514	522	526	524	521	521	520	521	523	523	535	525	523
24 q	521	521	518	521	522	529	531	533	531	526	522	518	521	525	526	527	526	528	529	529	521	526	529	521	525
25 q	529	523	521	523	525	529	534	533	529	525	517	517	521	530	534	532	529	529	534	534	533	531	533	527	528
26	525	525	525	528	529	530	533	533	529	525	518	524	533	540	537	535	534	533	536	537	534	526	528	524	530
27 q	525	526	521	525	526	528	529	529	528	521	512	506	507	514	521	526	528	529	530	534	533	531	532	526	524
28	535	527	525	529	534	535	539	537	533	525	522	520	517	524	530	529	534	533	534	524	532	532	532	532	530
29	532	529	534	535	532	530	535	530	533	517	514	510	515	528	527	524	524	525	522	534	529	535	521	530	527
Mean	521	518	519	520	525	525	526	525	523	517	511	511	510	511	515	517	519	518	521	521	523	526	521	522	519

MAGNETIC DECLINATION (WEST)

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

107 ESKDALEMUIR (D) — 12° + — FEBRUARY 1944

	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	21·3	21·6	23·4	24·3	25·8	26·7	26·1	25·9	25·0	25·0	25·8	27·3	28·6	30·5	30·2	29·4	28·7	28·9	28·9	25·7	26·0	26·0	25·0	24·2	26·3
2	25·1	24·9	25·1	25·0	24·4	26·2	25·5	25·1	26·0	27·5	27·2	28·5	29·4	30·0	29·3	29·0	28·6	28·5	27·9	27·3	27·1	22·5	20·1	24·0	26·4
3 q	24·7	24·3	24·9	26·0	26·0	26·4	26·3	25·8	25·8	25·9	26·6	28·0	28·6	29·0	28·9	28·6	28·5	27·9	27·1	26·5	25·0	25·1	25·9	25·9	26·6
4	25·5	25·4	25·7	26·3	24·7	24·0	25·2	26·4	26·4	26·7	27·4	27·1	28·1	30·1	30·0	28·3	28·6	27·9	25·6	21·9	26·0	26·3	25·9	25·6	26·5
5	25·2	26·1	26·6	26·6	26·7	26·5	27·3	26·6	26·4	25·9	26·8	27·9	28·0	28·7	28·9	28·4	28·5	28·6	27·6	27·3	26·9	24·9	23·0	22·6	26·7
6	23·2	25·8	26·5	26·2	26·6	26·8	26·9	26·3	26·1	25·7	25·3	26·1	27·4	29·0	28·6	27·6	26·9	26·8	26·7	26·6	26·3	26·1	25·9	25·4	26·5
7 d	26·7	26·3	26·4	26·4	26·3	25·9	26·8	29·3	29·1	28·8	33·4	29·2	34·9	40·6	32·9	32·2	25·6	16·0	17·4	16·5	17·8	15·1	16·9	22·8	26·0
8 d	29·9	26·1	26·4	26·7	27·4	31·8	31·6	33·1	27·9	27·3	27·6	28·6	28·7	28·5	27·8	27·9	26·9	22·9	25·9	17·9	15·2	19·1	23·2	24·9	26·4
9 d	25·0	25·2	25·8	25·9	26·3	28·9	34·1	34·1	30·4	27·5	27·3	30·2	32·2	29·3	29·5	25·9	25·7	22·8	22·3	18·5	24·5	24·5	25·0	25·0	26·9
10	23·4	25·7	26·8	29·5	29·7	26·8	26·7	27·8	26·8	28·4	28·6	26·6	28·5	25·8	26·4	21·3	23·0	25·6	17·3	20·5	24·5	24·0	25·0	26·4	25·6
11	25·7	27·6	32·5	25·1	25·1	26·4	26·5	29·1	27·2	27·3	27·3	29·3	29·5	29·4	28·5	22·9	26·7	26·6	25·6	22·7	22·6	24·0	22·1	22·5	26·3
12	24·6	26·1	26·7	31·0	26·1	25·9	27·8	26·7	27·0	26·9	27·8	27·7	29·7	28·5	27·4	28·3	27·5	26·7	26·1	23·8	23·0	25·5	24·9	25·0	26·7
13	25·2	25·8	26·7	26·8	26·6	26·3	26·3	26·3	25·5	24·3	25·2	26·6	27·3	28·6	29·5	29·5	26·7	28·5	28·2	26·3	24·7	25·4	20·6	10·6	25·7
14 d	18·8	21·1	20·9	19·6	18·8	37·8	40·5	32·1	28·6	29·1	29·4	30·9	29·7	30·2	29·5	27·0	26·1	25·9	24·1	20·8	15·5	21·4	25·0	24·9	26·2
15 d	20·4	22·0	27·7	24·4	23·9	24·3	25·0	25·1	25·5	25·8	28·8	28·7	29·5	27·0	28·0	24·1	24·4	15·0	16·0	20·7	19·0	24·3	27·3	23·6	24·2
16	24·9	28·0	25·5	25·3	25·8	25·0	25·4	25·2	26·2	26·8	27·8	29·4	29·0	29·1	28·6	26·9	25·8	26·3	26·7	26·2	26·0	24·9	25·0	28·4	26·6
17	27·6	26·6	26·3	25·1	24·9	24·9	25·1	24·8	24·4	25·0	26·7	28·2	28·9	29·5	27·8	27·6	26·8	26·1	26·3	26·0	24·9	21·4	24·1	24·6	26·0
18 q	25·5	25·4	25·3	25·1	24·9	25·2	25·0	25·1	25·0	25·9	26·9	29·0	28·9	28·5	28·3	27·3	26·8	26·8	26·5	26·2	25·9	25·8	25·7	25·7	26·3
19	25·7	25·8	25·7	26·6	25·1	24·8	24·5	24·5	24·4	26·0	28·7	29·7	30·4	29·5	28·4	26·7	26·0	26·2	26·1	26·0	25·9	25·7	25·4	25·5	26·4
20	25·0	25·1	25·5	25·2	25·2	25·2	25·1	25·0	25·1	26·0	29·4	30·8	32·0	33·8	32·2	30·0	27·7	29·3	24·9	24·0	23·2	22·9	21·4	26·1	26·7
21	21·0	21·1	24·1	24·1	25·1	25·0	24·0	24·3	24·9	24·9	26·2	27·8	27·9	29·3	28·7	28·7	27·5	26·9	26·0	25·6	24·1	23·2	23·2	23·4	25·3
22	23·8	24·9	22·3	24·0	23·2	23·6	24·5	24·9	24·5	25·1	26·6	27·7	27·8	27·8	27·7	26·4	26·8	26·8	26·9	26·4	26·1	25·6	25·1	25·2	25·6
23	25·3	25·1	25·6	25·1	24·1	24·9	25·0	25·7	25·9	25·0	25·5	28·0	29·4	29·3	28·8	27·8	27·7	27·9	28·5	27·6	25·8	24·9	23·4	22·5	26·2
24 q	23·3	24·2	24·7	24·9	24·5	24·2	23·7	24·3	25·1	25·6	25·5	26·2	27·7	28·7	28·6	27·5	26·6	26·8	26·8	26·3	25·0	25·7	22·3	24·1	25·5
25 q	25·1	22·0	23·7	22·7	23·3	23·4	23·5	23·9	24·1	24·4	25·5	27·7	29·3	29·2	28·0	26·5	25·8	26·2	26·6	26·3	26·0	25·8	24·3	23·5	25·3
26	24·1	24·7	24·8	25·0	25·3	25·0	25·2	24·9	24·8	24·8	25·5	27·7	28·1	28·8	28·6	27·6	26·9	27·2	26·8	26·8	26·7	25·6	25·1	24·9	26·0
27 q	23·4	22·5	24·2	23·6	24·4	24·2	24·8	25·0	24·8	24·5	25·6	27·5	29·3	30·4	30·1	29·2	28·3	27·7	27·2	26·1	25·7	25·3	25·1	24·6	26·0
28	24·8	23·2	24·7	25·0	24·4	24·4	24·7	24·6	24·5	25·0	25·7	29·1	30·5	30·9	30·6	28·9	27·7	27·4	27·3	25·8	25·9	24·1	23·4	23·7	26·1
29	24·8	25·0	25·3	24·7	23·8	25·9	25·3	25·0	24·2	24·3	26·5	28·7	30·3	30·8	31·7	31·2	29·8	31·2	30·0	27·8	24·6	20·5	22·9	24·8	26·6
Mean	24·5	24·7	25·5	25·4	25·1	26·1	26·5	26·4	25·9	26·1	27·1	28·3	29·3	29·7	29·1	27·7	27·0	26·3	25·6	24·5	24·1	24·0	23·9	24·1	26·1

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

108 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — FEBRUARY 1944

	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	1098	1094	1094	1093	1094	1096	1095	1093	1093	1093	1091	1090	1085	1085	1087	1091	1091	1093	1095	1099	1100	1101	1100	1099	1094
2	1097	1095	1094	1091	1091	1088	1087	1087	1087	1087	1086	1085	1087	1091	1093	1093	1093	1093	1093	1097	1099	1105	1103	1098	1093
3 q	1097	1094	1093	1091	1090	1091	1091	1089	1089	1086	1085	1084	1085	1087	1091	1091	1092	1092	1093	1093	1093	1091	1091	1091	1090
4	1091	1091	1088	1084	1079	1080	1079	1079	1080	1082	1081	1085	1086	1086	1091	1091	1092	1096	1098	1100	1093	1091	1091	1091	1088
5	1091	1090	1089	1087	1087	1086	1083	1081	1084	1085	1081	1081	1080	1080	1083	1085	1086	1087	1093	1097	1097	1098	1094	1087	1087
6	1087	1086	1086	1086	1086	1086	1085	1085	1085	1085	1085	1087	1088	1091	1093	1093	1092	1088	1087	1087	1086	1087	1087	1088	1087
7 d	1085	1084	1085	1085	1084	1081	1080	1075	1075	1087	1091	1091	1096	1120	1145	1147	1142	1140	1121	1122	1083	1055	1065	1063	1096
8 d	1025	1025	1056	1075	1076	1070	1074	1073	1080	1087	1091	1093	1097	1108	1111	1111	1121	1121	1109	1105	1086	1068	1081	1087	1085
9 d	1091	1091	1092	1091	1091	1087	1081	1067	1074	1086	1093	1098	1102	1120	1122	1122	1114	1118	1111	1098	1092	1092	1093	1090	*1097*
10	1085	1087	1082	1068	1067	1067	1074	1075	1081	1087	1095	1097	1098	1105	1108	1115	1115	1108	1105	1093	1094	1093	1092	1087	1091
11	1075	1068	1059	1064	1073	1070	1078	1080	1086	1092	1098	1099	1099	1100	1108	1116	1106	1099	1099	1099	1098	1089	1090	1087	1089
12	1085	1080	1076	1068	1069	1079	1080	1080	1081	1085	1090	1093	1096	1104	1111	1105	1104	1101	1098	1100	1099	1093	1093	1092	1090
13	1093	1093	1092	1092	1091	1092	1091	1089	1090	1088	1087	1087	1087	1090	1097	1103	1106	1102	1099	1098	1093	1087	1087	1075	1092
14 d	1079	1045	1010	1023	990	979	972	1013	1048	1075	1091	1091	1105	1122	1116	1117	1109	1105	1108	1108	1103	1092	1091	1091	*1070*
15	1081	1080	1057	1074	1075	1080	1085	1085	1086	1088	1090	1096	1102	1112	1110	1112	1111	1115	1110	1103	1093	1090	1068	1075	1091
16	1084	1085	1087	1092	1092	1091	1091	1094	1094	1095	1094	1096	1097	1097	1100	1104	1104	1102	1099	1098	1097	1093	1093	1088	1094
17	1081	1085	1086	1091	1092	1092	1093	1093	1096	1091	1086	1086	1091	1096	1099	1100	1099	1098	1097	1096	1097	1093	1091	1091	1093
18 q	1091	1091	1091	1091	1091	1091	1091	1091	1091	1093	1091	1093	1093	1094	1096	1097	1096	1096	1096	1093	1093	1094	1093	1093	1093
19	1092	1092	1092	1091	1092	1091	1091	1090	1089	1090	1090	1091	1090	1090	1091	1092	1091	1092	1092	1091	1091	1091	1092	1092	1091
20	1093	1092	1092	1091	1090	1087	1086	1084	1085	1084	1082	1082	1087	1096	1112	1102	1100	1104	1110	1111	1116	1117	1111	1085	1096
21	1070	1083	1092	1092	1091	1086	1086	1087	1090	1093	1096	1096	1096	1097	1097	1099	1098	1097	1097	1097	1097	1094	1096	1096	1093
22	1093	1086	1083	1086	1086	1086	1086	1085	1086	1090	1088	1088	1091	1091	1093	1096	1096	1093	1093	1093	1093	1093	1094	1095	1090
23	1093	1093	1091	1086	1086	1086	1087	1085	1085	1087	1085	1081	1085	1085	1087	1091	1093	1093	1096	1097	1097	1097	1090	1087	1089
24 q	1089	1090	1091	1091	1089	1087	1085	1082	1081	1082	1084	1083	1081	1084	1085	1086	1086	1086	1087	1088	1091	1092	1092	1092	1087
25 q	1090	1090	1090	1090	1088	1086	1085	1084	1085	1084	1082	1080	1080	1084	1086	1089	1090	1087	1086	1086	1086	1088	1088	1091	1086
26	1091	1091	1091	1089	1087	1086	1085	1084	1084	1081	1081	1075	1076	1079	1084	1087	1090	1088	1086	1086	1087	1092	1091	1091	1086
27 q	1091	1087	1088	1091	1089	1087	1086	1086	1086	1085	1084	1082	1084	1086	1089	1093	1094	1092	1092	1091	1090	1088	1087	1090	1088
28	1085	1085	1086	1087	1087	1087	1086	1085	1085	1082	1075	1069	1069	1074	1078	1084	1087	1087	1087	1091	1091	1091	1088	1087	1084
29	1086	1086	1086	1086	1086	1085	1082	1085	1086	1086	1079	1075	1075	1080	1086	1091	1095	1096	1097	1095	1097	1092	1091	1087	1087
Mean	1086	1084	1083	1084	1082	1081	*1081*	1082	1084	1087	1087	1087	1089	1094	1098	*1100*	1100	1099	1098	1097	1094	1091	1090	1089	1090

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

109 ESKDALEMUIR — FEBRUARY 1944

	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 12° +	Minimum 12° +	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	17 7	528	502	1 52	26	13 10	31·3	20·5	0 32	10·8	0 1	1104	1082	13 7	22	2,1,0,1,1,1,2,1	9	0	83·1
2	6 50	537	502	21 39	35	13 11	30·8	19·3	22 33	11·5	21 41	1109	1084	11 58	25	0,2,2,1,1,0,1,2	9	0	83·1
3 q	9 10	530	510	0 15	*20*	13 13	29·4	23·2	20 26	6·2	0 1	1098	1083	11 22	15	1,1,1,1,1,0,2,1	8	0	83·1
4	10 36	548	502	18 57	46	14 8	31·4	19·5	19 12	11·9	19 20	1104	1079	8 0	25	0,2,1,2,2,2,3,1	13	0	83·0
5	22 53	547	509	20 0	38	14 19	29·7	19·7	21 58	10·0	20 16	1099	1079	12 51	20	0,0,1,1,1,1,2,3	9	0	83·0
6	10 3	535	514	11 58	21	13 29	29·6	22·2	0 10	7·4	15 36	1094	1085	10 0	9	2,0,1,1,1,1,0,0	6	0	82·9
7 d	20 51	595	*402*	12 58	*193*	13 32	46·1	−2·0	19 55	*48·1*	15 57	*1163*	1048	24 0	115	2,2,2,3,5,5,5,5	29	1	82·8
8 d	21 8	*630*	451	0 59	179	6 57	36·6	6·1	20 52	30·5	16 47	1127	1007	0 58	120	5,3,3,2,3,4,4,5	29	1	82·8
9 d	19 30	572	446	13 1	126	7 0	42·0	9·7	19 18	32·3	17 40	1125	1063	7 23	62	2,2,3,3,4,4,4,2	24	1	82·9
10	19 6	567	470	10 22	97	3 13	34·1	9·4	18 37	24·7	15 55	1116	1061	4 51	55	3,3,3,3,3,3,4,3	25	1	82·8
11	20 57	557	463	15 20	94	2 12	36·3	18·8	20 2	17·5	15 39	1119	1057	2 30	62	3,3,3,3,3,3,3,3	24	1	82·8
12	15 52	557	466	13 21	91	3 27	32·3	19·8	19 33	12·5	14 14	1115	1063	3 59	52	3,3,2,2,3,3,3,1	20	1	82·8
13	23 22	606	494	16 11	112	14 40	30·2	6·8	23 20	23·4	16 33	1109	1068	23 40	41	1,1,2,1,1,2,3,5	16	1	82·8
14 d	4 23	590	413	5 42	177	5 59	*52·2*	12·2	20 38	40·0	13 14	1128	*954*	6 10	*174*	4,5,5,4,3,2,4,3	30	2	82·8
15 d	19 38	584	474	19 31	110	2 9	36·0	8·0	17 53	28·0	17 51	1120	1050	2 32	70	4,3,2,2,3,4,5,4	27	1	82·8
16	21 41	545	486	10 39	59	23 27	30·9	24·0	21 46	6·9	16 0	1105	1051	0 1	54	2,2,2,2,2,2,1,3	16	0	82·8
17	21 1	541	501	14 11	40	13 47	30·7	19·4	21 11	11·3	15 13	1103	1080	0 30	23	2,0,1,2,2,1,2,3	13	0	82·8
18 q	16 30	534	498	11 5	36	11 48	29·6	24·3	4 2	*5·3*	15 30	1098	1090	10 9	8	1,1,1,2,2,1,0,0	8	0	82·8
19	8 0	533	509	11 28	24	12 42	31·2	24·2	8 4	7·0	17 30	1093	1088	8 10	*5*	0,1,1,1,2,1,0,0	6	0	82·8
20	23 18	533	479	14 33	74	14 47	37·8	14·3	18 48	23·5	21 17	1120	1068	24 0	52	1,1,1,3,4,3,4,3	20	1	82·8
21	21 9	537	486	0 25	51	11 50	30·0	16·9	0 37	13·1	15 14	1100	1063	0 10	37	3,2,1,2,1,2,2,2	15	1	82·9
22	1 10	546	506	3 20	40	13 46	28·5	20·4	2 58	8·1	15 44	1097	1081	2 12	16	3,2,1,0,1,1,1,0	9	0	83·0
23	22 47	544	510	12 23	34	12 3	30·5	19·7	22 41	10·8	20 10	1098	1080	11 43	18	0,1,1,1,1,1,1,2	8	0	82·9
24 q	22 33	545	514	2 8	31	13 50	29·5	18·6	22 30	10·9	22 50	1093	1080	12 30	13	1,1,1,1,0,0,1,3	8	0	82·8
25 q	22 40	539	516	10 50	23	12 38	29·6	21·3	1 28	8·3	0 10	1093	1079	11 50	14	3,1,1,1,1,1,0,1	9	0	82·8
26	13 52	541	514	10 24	27	12 50	29·1	23·3	0 18	5·8	22 10	1093	1074	11 50	19	0,0,1,1,1,1,1,1	6	0	82·8
27 q	18 49	537	502	12 20	35	13 52	31·2	21·5	1 35	9·7	16 5	1095	1082	11 30	13	2,0,0,1,1,0,1,0	5	0	82·8
28	0 30	541	514	12 46	27	14 5	31·5	22·2	0 55	9·3	19 49	1094	1069	11 33	25	2,1,0,1,1,1,2,1	9	0	82·8
29	21 31	556	506	12 13	50	13 52	33·1	18·8	21 29	14·3	20 53	1099	1073	12 5	26	1,1,1,1,2,1,3,3	13	0	82·5
Mean	- -	554	488	- -	66	- -	33·1	17·3	- -	15·8	- -	1107	1066	- -	41	1·7	14·6	0·41	82·9

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.

110 ESKDALEMUIR (H) — 16,000γ (0·16 C.G.S. unit) + — MARCH 1944

	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	527	526	521	529	532	526	526	525	533	529	525	524	524	529	532	533	532	533	537	537	537	535	536	529	*530*
2	536	521	518	517	518	533	532	532	529	525	520	514	517	508	515	517	521	528	529	526	533	525	527	528	524
3 q	527	526	523	528	525	530	532	529	529	524	518	518	525	528	533	532	531	530	533	533	532	533	536	536	529
4	538	542	543	534	542	534	537	517	522	447	499	510	484	506	513	517	513	517	516	514	519	534	538	533	520
5	516	521	519	523	526	525	525	526	521	510	512	517	517	525	522	508	517	517	508	526	526	533	528	529	521
6	525	538	525	503	518	530	525	524	524	505	498	510	521	522	511	522	516	522	518	564	526	503	529	525	521
7 d	537	522	501	515	528	510	505	510	501	510	506	507	497	515	490	508	503	508	525	527	524	526	518	546	514
8	520	522	515	518	528	506	525	522	514	514	506	515	481	506	510	520	517	509	501	552	516	528	533	538	517
9	521	552	546	521	526	512	521	534	526	517	514	478	490	510	502	510	525	514	523	548	517	526	526	542	521
10 d	522	519	518	517	514	504	522	501	475	479	499	472	466	502	511	518	518	528	550	499	505	530	543	521	510
11	513	512	514	513	518	514	518	526	525	498	478	498	513	518	518	521	521	529	499	503	523	528	525	536	515
12	529	532	522	515	513	510	534	526	525	504	508	513	518	525	533	477	510	505	515	542	521	542	537	518	520
13	521	522	517	510	521	523	519	528	517	507	506	508	506	501	509	533	514	530	529	529	528	530	533	530	520
14	530	527	533	518	498	517	505	514	523	509	503	505	506	517	525	524	522	525	517	537	526	529	526	525	519
15 q	528	526	524	524	525	522	530	530	522	507	500	498	499	502	508	515	521	523	526	526	526	523	515	517	518
16	514	523	521	514	525	530	525	524	521	515	506	496	489	507	514	515	513	511	522	526	526	527	526	526	517
17 q	523	521	520	521	524	525	526	525	523	511	502	498	502	509	511	514	520	522	526	526	530	530	532	531	520
18	530	528	529	530	531	534	536	531	527	518	512	513	522	525	528	529	533	539	531	522	491	496	513	497	523
19 d	463	454	449	496	507	511	514	512	511	499	493	471	494	512	502	522	523	522	525	518	518	492	483	526	501
20	507	507	507	512	513	516	515	503	495	493	495	491	503	511	518	518	516	525	516	518	515	520	525	522	511
21	518	514	514	509	522	525	521	515	507	502	498	499	500	505	517	523	521	518	521	512	514	518	534	532	515
22	519	520	510	519	500	516	511	515	511	499	503	498	507	510	526	534	539	534	523	530	534	532	526	532	519
23	527	529	527	527	527	522	522	522	510	500	494	491	502	514	518	522	521	523	507	524	521	545	526	520	518
24 q	524	526	526	526	529	528	525	523	519	504	505	503	503	514	526	518	531	530	530	533	531	533	532	531	523
25	532	531	530	531	534	535	541	532	526	519	506	503	509	521	527	534	549	537	519	530	529	526	553	525	528
26 d	542	519	527	520	512	532	530	480	484	496	489	495	481	536	507	518	527	527	534	534	540	540	550	546	519
27 d	473	493	487	426	429	517	482	476	467	450	423	467	473	485	503	509	519	514	535	514	543	517	514	529	*489*
28	521	511	511	511	514	519	518	511	507	480	482	481	490	504	519	509	519	508	506	509	522	522	495	478	506
29	501	528	492	507	507	529	505	502	459	479	460	477	495	503	500	523	522	522	523	530	514	508	513	512	505
30	505	522	509	514	522	514	500	510	511	503	500	500	506	499	515	509	518	531	522	527	521	527	553	550	516
31	508	513	516	509	511	519	520	515	499	495	488	480	483	504	514	516	518	523	528	527	530	524	523	526	512
Mean	519	521	517	515	517	521	521	517	512	501	*498*	498	501	512	515	518	522	523	522	527	524	525	*527*	527	517

MAGNETIC DECLINATION (WEST)

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

111 ESKDALEMUIR (D) — 12° + — MARCH 1944

	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	24·7	24·8	23·7	25·2	22·5	21·5	22·7	24·2	24·3	24·8	25·8	27·3	28·3	29·3	29·0	27·8	26·9	27·2	27·0	26·9	26·6	26·1	25·7	23·2	25·6
2	21·1	18·7	22·3	22·8	25·6	26·0	24·3	24·1	23·9	24·3	26·5	29·7	30·4	31·3	29·7	29·5	26·6	27·3	27·0	25·9	14·7	23·2	23·7	24·6	25·1
3 q	25·2	25·7	25·7	25·9	23·0	24·1	24·2	24·7	24·2	24·2	26·3	28·7	29·6	29·3	28·1	26·7	25·9	26·0	26·1	26·1	25·9	25·0	25·3	25·1	25·9
4	25·2	25·2	24·6	25·8	25·3	24·1	24·3	25·9	27·9	27·7	35·3	32·7	35·2	33·3	30·6	29·9	25·7	25·9	25·1	24·8	21·4	20·2	17·4	20·9	26·4
5	23·9	24·9	25·5	26·4	25·1	24·2	24·2	23·8	23·6	24·1	25·4	27·7	29·3	29·7	30·5	28·5	29·3	29·6	25·5	25·9	24·9	23·3	22·3	22·2	25·8
6	23·4	26·6	22·9	29·5	28·6	25·7	25·7	25·0	25·1	26·0	27·3	26·5	28·7	28·5	28·8	26·2	26·9	26·8	17·5	11·7	17·4	21·4	22·2	23·2	24·7
7 d	25·2	24·9	31·7	27·6	23·0	22·2	24·3	25·6	26·6	25·2	26·4	29·6	29·4	30·5	28·1	16·3	25·9	25·9	23·2	25·2	25·9	24·5	22·9	24·1	25·6
8	24·8	25·5	24·7	25·9	25·1	26·8	25·2	24·9	24·3	25·5	26·1	29·3	29·5	30·4	29·7	28·1	26·3	24·9	14·4	21·3	24·5	25·4	23·3	23·9	25·4
9	24·6	30·1	24·2	21·3	24·7	30·3	26·3	25·5	25·0	25·9	26·4	29·0	28·9	30·5	28·4	26·4	21·6	24·7	22·3	19·5	20·8	22·2	22·9	25·7	25·3
10 d	23·0	24·0	29·5	32·2	27·9	32·0	26·7	27·8	30·7	26·9	25·8	29·4	27·0	32·3	26·7	26·2	29·4	18·8	7·0	16·7	21·4	16·3	19·1	20·9	24·9
11	20·6	24·5	24·8	27·1	27·6	28·7	26·3	25·0	25·4	24·9	26·1	28·1	28·3	29·6	29·1	28·6	27·6	26·6	19·2	15·9	24·1	25·5	24·9	24·3	25·5
12	23·3	25·4	22·0	22·3	27·8	29·2	27·8	25·0	24·1	25·8	26·7	28·2	28·0	28·8	31·1	28·7	25·8	25·0	23·9	16·1	21·1	21·1	24·1	21·6	25·1
13	27·8	24·7	31·1	26·3	25·7	25·1	24·5	25·8	25·8	25·0	25·6	27·7	29·6	28·4	27·0	26·8	23·2	27·4	26·8	26·1	25·0	24·4	25·0	24·9	26·2
14	24·9	24·3	26·4	20·5	23·5	26·6	26·4	26·9	25·2	25·9	24·9	28·1	28·1	29·1	28·0	27·3	25·8	25·0	23·2	18·9	25·0	25·0	24·3	23·9	25·3
15 q	24·9	24·7	25·0	25·3	26·1	27·5	26·0	24·3	22·5	23·1	24·7	26·4	28·8	29·8	29·2	28·1	27·5	26·8	26·3	25·7	24·3	24·4	20·7	22·6	25·6
16	22·7	23·4	22·2	26·6	28·0	25·0	25·0	23·6	22·9	24·1	26·2	29·0	29·9	30·0	30·4	29·5	27·9	27·3	27·0	26·2	26·0	25·3	25·1	25·1	26·2
17 q	23·7	24·5	24·9	25·1	24·8	24·7	24·6	23·6	22·8	23·0	24·6	27·1	29·5	30·0	29·9	29·0	27·9	26·4	26·0	25·3	25·6	25·4	25·4	25·2	25·8
18	25·1	25·1	25·1	25·1	25·1	24·7	24·4	23·6	22·5	22·5	24·3	27·7	30·1	31·1	30·5	28·8	27·9	27·2	26·8	26·5	18·1	17·8	7·6	7·8	24·0
19 d	6·0	12·5	14·5	12·8	18·7	21·9	22·4	21·3	20·9	22·1	26·1	27·7	28·7	31·0	31·1	28·1	27·3	26·2	25·6	25·6	15·1	15·2	16·9	20·7	*21·6*
20	20·7	22·2	24·3	24·5	23·6	23·6	23·5	23·3	24·6	26·5	26·9	27·9	29·6	30·2	29·6	28·1	26·3	26·2	23·7	23·5	23·6	23·4	23·5	22·7	25·1
21	22·2	23·5	22·1	22·3	25·2	21·2	22·6	22·1	21·6	22·1	24·3	25·9	29·2	29·8	29·8	29·5	28·5	27·6	26·3	25·7	23·9	23·8	19·9	22·3	24·6
22	24·4	23·5	27·8	25·8	19·8	21·3	22·9	21·0	20·3	22·5	25·1	27·9	32·6	32·0	30·4	30·2	29·7	28·4	27·1	26·9	26·7	26·1	24·1	25·2	25·9
23	23·9	24·7	24·4	24·5	24·7	25·5	26·9	24·4	22·8	24·0	25·3	27·6	29·5	30·4	30·4	28·8	27·2	26·9	22·7	22·7	24·8	22·4	20·9	24·4	25·4
24 q	25·1	25·0	25·1	25·2	25·1	24·3	23·4	21·9	21·6	22·7	26·0	28·6	30·4	30·9	30·9	28·2	26·9	26·1	25·6	25·5	25·3	25·3	25·7	25·3	25·8
25	25·2	24·9	25·1	25·2	24·8	25·5	24·6	22·5	22·0	23·7	25·7	27·4	29·5	31·6	32·9	31·9	31·5	31·6	28·3	26·0	27·0	25·2	23·1	22·4	*26·6*
26 d	24·0	23·3	23·5	22·4	20·3	23·4	20·9	20·9	25·5	26·8	25·7	30·2	31·5	33·1	31·1	30·3	26·6	26·5	27·1	27·2	27·4	26·5	25·7	25·2	26·0
27 d	32·7	14·6	20·4	18·2	38·7	29·5	26·6	29·7	25·2	24·4	24·4	25·4	29·5	29·0	29·3	23·7	24·4	23·8	19·1	24·7	24·0	23·4	23·5	23·1	25·3
28	23·5	23·5	23·4	24·1	25·0	25·3	24·7	22·5	21·6	23·4	25·1	26·6	27·8	28·8	29·3	27·1	27·1	27·2	26·0	24·7	24·7	18·5	15·7	17·1	24·3
29	20·5	18·1	10·7	19·9	20·6	29·3	28·0	24·5	24·4	26·9	26·5	29·3	29·8	32·3	31·6	30·5	29·3	27·8	24·3	23·4	20·7	20·7	21·1	22·7	24·7
30	20·5	20·9	18·9	20·8	20·2	21·1	23·1	24·7	24·3	24·1	24·8	26·1	28·4	29·9	29·8	29·6	27·9	21·4	22·0	22·8	25·2	25·3	20·5	21·3	23·9
31	17·9	19·6	19·3	22·0	25·0	25·2	23·5	22·7	22·5	24·8	26·2	30·0	32·4	29·9	29·1	27·9	26·3	25·5	25·2	25·2	25·2	22·0	21·1	22·5	24·6
Mean	23·3	23·3	23·7	24·1	24·9	25·3	24·7	24·2	24·0	24·6	26·0	28·1	29·6	*30·3*	29·7	27·9	27·0	26·3	23·8	23·5	23·4	23·0	*22·1*	22·7	25·2

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

112 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — MARCH 1944

	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	1086	1087	1087	1085	1076	1078	1080	1081	1081	1081	1081	1079	1079	1079	1082	1086	1087	1087	1086	1086	1086	1086	1087	1087	1083
2	1079	1072	1079	1085	1079	1075	1079	1082	1085	1081	1079	1076	1078	1085	1090	1092	1096	1092	1092	1094	1098	1089	1087	1086	1085
3 q	1087	1087	1084	1082	1086	1085	1085	1085	1085	1086	1084	1079	1079	1082	1084	1085	1085	1085	1085	1086	1087	1087	1086	1086	1085
4	1085	1081	1081	1081	1079	1079	1079	1080	1078	1088	1076	1079	1088	1091	1097	1103	1106	1102	1102	1104	1102	1095	1085	1075	1088
5	1078	1080	1082	1081	1081	1085	1085	1087	1087	1085	1082	1079	1078	1079	1085	1093	1102	1101	1115	1104	1099	1093	1094	1087	1088
6	1079	1067	1067	1069	1066	1073	1080	1080	1079	1079	1080	1080	1079	1085	1092	1098	1103	1099	1108	1086	1079	1086	1076	1078	1082
7 d	1074	1075	1055	1056	1069	1078	1078	1080	1079	1084	1082	1080	1086	1097	1116	1152	1129	1111	1103	1096	1095	1094	1094	1073	1089
8	1069	1078	1086	1087	1084	1085	1082	1085	1088	1087	1087	1085	1087	1087	1089	1091	1098	1109	1118	1092	1093	1093	1091	1088	1089
9	1085	1052	1048	1066	1069	1064	1067	1074	1078	1081	1081	1085	1091	1093	1100	1112	1121	1120	1110	1096	1088	1083	1081	1056	1083
10 d	1055	1069	1076	1056	1054	1060	1069	1079	1086	1087	1088	1096	1111	1114	1133	1140	1116	1117	1110	1103	1098	1085	1068	1064	1089
11	1069	1081	1085	1087	1083	1084	1088	1087	1084	1085	1087	1084	1081	1085	1091	1096	1097	1097	1112	1115	1099	1093	1092	1090	1090
12	1083	1069	1073	1080	1075	1074	1073	1080	1081	1080	1079	1077	1080	1084	1097	1123	1130	1128	1118	1108	1085	1085	1064	1068	1087
13	1056	1063	1050	1058	1073	1079	1081	1082	1080	1080	1080	1080	1082	1099	1109	1115	1112	1100	1094	1094	1093	1093	1091	1091	1085
14	1091	1085	1080	1079	1082	1076	1080	1080	1080	1081	1085	1082	1082	1082	1091	1093	1097	1099	1099	1098	1092	1091	1091	1091	1087
15 q	1090	1090	1091	1091	1091	1090	1087	1090	1091	1090	1088	1085	1082	1082	1085	1090	1092	1092	1091	1093	1093	1092	1094	1093	1090
16	1085	1080	1084	1077	1066	1071	1077	1085	1087	1086	1086	1085	1081	1084	1091	1097	1102	1103	1098	1097	1094	1093	1093	1092	1087
17 q	1091	1092	1092	1092	1092	1092	1092	1092	1091	1087	1082	1075	1073	1074	1079	1086	1090	1092	1091	1091	1089	1090	1088	1088	1088
18	1087	1087	1087	1087	1086	1086	1088	1088	1081	1077	1072	1069	1075	1081	1085	1087	1091	1098	1109	1128	1108	1087	1052	1087	
19 d	1008	1006	929	992	1043	1068	1079	1086	1087	1086	1086	1090	1090	1096	1103	1104	1103	1098	1099	1103	1108	1099	1087	1059	1071
20	1061	1079	1085	1088	1091	1091	1091	1091	1091	1087	1086	1085	1084	1085	1089	1096	1097	1097	1099	1100	1099	1098	1097	1092	1090
21	1091	1091	1091	1092	1082	1082	1087	1091	1091	1091	1091	1090	1088	1087	1087	1091	1096	1098	1099	1107	1111	1106	1097	1082	1092
22	1087	1090	1085	1062	1069	1076	1080	1082	1085	1087	1084	1080	1076	1074	1079	1084	1085	1092	1094	1093	1092	1093	1094	1092	1084
23	1091	1091	1091	1089	1088	1088	1087	1088	1092	1090	1086	1084	1083	1085	1089	1095	1098	1103	1111	1105	1098	1093	1082	1087	1091
24 q	1089	1091	1091	1090	1087	1087	1090	1091	1088	1090	1082	1079	1080	1083	1088	1093	1093	1092	1092	1088	1088	1088	1089	1091	1088
25	1089	1089	1091	1091	1088	1086	1086	1086	1086	1080	1079	1080	1081	1081	1081	1084	1087	1091	1104	1105	1103	1102	1081	1076	1088
26 d	1069	1076	1075	1062	1048	1060	1067	1067	1062	1065	1066	1066	1075	1079	1087	1093	1095	1089	1090	1089	1089	1092	1091	1087	1077
27 d	1038	972	1023	977	940	991	1031	1052	1070	1092	1103	1099	1098	1099	1103	1117	1116	1112	1111	1102	1087	1084	1087	1083	*1066*
28	1080	1085	1091	1091	1092	1091	1095	1096	1091	1092	1088	1087	1087	1091	1097	1109	1114	1116	1116	1114	1103	1097	1081	1079	*1095*
29	1063	1031	1041	1063	1073	1037	1031	1049	1061	1063	1074	1075	1077	1087	1098	1110	1121	1127	1128	1115	1104	1104	1100	1097	1080
30	1090	1064	1061	1078	1079	1080	1086	1086	1085	1082	1083	1085	1086	1091	1098	1103	1104	1111	1111	1104	1099	1097	1088	1056	1088
31	1057	1069	1076	1081	1079	1076	1084	1087	1087	1088	1087	1084	1081	1090	1094	1097	1097	1097	1097	1096	1095	1099	1096	1087	1087
Mean	1075	1072	*1071*	1073	1073	1075	1079	1082	1083	1084	1083	1082	1083	1087	1093	1100	1102	1101	*1103*	1099	1096	1093	1088	1081	1086

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

113 ESKDALEMUIR — MARCH 1944

	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 12° +		Minimum 12° +		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 q	20 32	545		514	23 19	31	13 26	29·5	19·3	24 0	10·2	23 22	1091	1075	4 40	16	2,2,2,1,1,1,1,3	13	0	82·3
2	20 28	570		490	20 3	80	13 33	32·2	9·0	20 17	23·2	20 10	1105	1067	1 0	38	2,2,0,2,2,2,4,2	16	1	82·2
3 q	22 55	537		514	2 50	*23*	12 4	29·7	22·5	4 29	*7·2*	21 54	1088	1077	12 2	*11*	2,2,1,1,1,1,0,1,1	9	0	82·2
4	2 42	554		423	9 33	131	10 6	39·4	15·7	22 16	23·7	16 36	1111	1073	10 41	38	2,2,3,4,3,3,2,3	22	1	82·2
5	21 40	541		490	18 19	51	17 33	32·1	19·7	23 12	12·4	18 36	1118	1075	0 1	43	2,1,0,1,2,3,3,2	14	1	82·3
6	19 20	592		477	10 3	115	3 46	34·9	5·3	19 16	29·6	18 28	1111	1059	1 50	52	3,4,2,3,3,3,4,3	25	1	82·3
7 d	0 34) 23 8)	561		439	14 38	122	2 31	34·5	6·1	15 15	28·4	15 34	*1157*	1043	2 50	114	4,3,2,2,4,5,2,4	26	1	82·3
8	19 5	603		436	12 25	167	12 12	33·5	4·3	18 58	29·2	18 14	1123	1068	0 30	55	2,3,2,2,4,4,5,3	25	1	82·3
9	19 2	587		449	11 43	138	1 2	35·3	14·0	18 57	21·3	17 30	1123	1040	2 11	83	4,4,2,4,3,4,4,4	29	1	82·3
10 d	21 48	582		424	12 14	158	13 42	35·0	3·5	18 15	31·5	15 26	1150	1049	0 1	101	3,3,4,4,4,3,4,4	29	1	82·4
11	23 48	552		463	18 40	89	13 11	30·4	11·6	18 45	18·8	18 51	1123	1061	0 1	62	2,2,3,3,2,2,4,2	20	1	82·3
12	21 52	*616*		427	15 31	189	14 11	33·0	9·9	19 23	23·1	16 15	1133	1061	22 21	72	3,3,3,3,3,5,4,5	29	1	82·4
13	15 11	556		454	14 43	102	2 14	33·2	17·8	16 42	15·4	15 50	1116	1043	2 40	73	3,2,2,2,4,4,2,1	20	1	82·5
14	19 21	552		486	10 13	66	11 55	29·9	12·4	19 3	17·5	19 0	1106	1074	5 50	32	2,3,3,2,2,2,4,1	19	1	82·5
15 q	21 29	539		489	12 10	50	13 31	30·6	19·8	22 12	10·8	21 22	1098	1080	12 45	18	1,2,2,1,2,0,2,3	13	0	82·5
16	5 43	534		482	11 58	52	14 17	31·5	20·8	2 38	10·7	17 5	1106	1062	4 32	44	2,3,1,2,2,3,1,0	14	0	82·5
17 q	21 45	537		476	11 35	61	13 30	30·6	22·5	8 50	8·1	17 28	1093	1070	12 10	23	1,0,1,1,1,0,1,1	6	0	82·5
18	17 23	557		458	23 59	99	13 30	32·4	3·1	22 41	29·3	20 42	1135	1010	24 0	125	0,0,1,1,2,2,4,4	14	1	82·5
19 d	23 52	574		362	2 19	212	13 28	33·3	*2·7*	0 28	30·6	20 30	1110	*877*	2 19	*233*	5,5,2,3,3,2,4,4	28	2	82·5
20	0 1	533		483	11 50	50	13 15	30·8	18·8	0 9	12·0	19 11	1103	1045	0 1	58	3,1,1,2,1,1,2,1	12	0	82·6
21	23 0	569		495	11 18	74	13 9	30·5	15·3	22 50	15·2	20 53	1114	1080	4 45	34	1,2,0,1,1,2,2,3	12	0	82·6
22	17 58	553		487	11 46	66	13 10	36·9	18·9	4 17	18·0	18 40	1096	1058	3 50	38	2,3,1,2,2,3,3,1	17	1	82·5
23	21 49	581		482	11 0	99	13 38	31·2	16·3	18 45	14·9	18 43	1117	1077	22 17	40	1,2,1,1,1,2,3,4	15	1	82·5
24 q	19 15	534		498	11 3	36	13 26	31·6	20·8	8 9	10·8	16 17	1096	1078	11 50	18	1,0,1,1,1,2,0,0	6	0	82·6
25	22 31	568		491	18 27	77	14 30	33·3	17·7	22 50	15·6	18 53	1110	1073	24 0	37	1,1,1,2,2,3,3,3	16	1	82·6
26 d	23 41	608		436	14 20	172	13 44	37·7	17·9	4 3	19·8	15 50	1096	1044	4 32	52	3,2,4,3,5,3,2,5	27	1	82·6
27 d	18 10	581		*318*	4 7	*263*	4 39	*46·8*	7·7	1 34	*39·1*	16 12	1124	901	1 10	223	6,6,4,5,3,3,4,3	34	2	82·7
28	21 46	548		472	9 43	76	14 41	30·5	11·6	23 58	18·9	18 52	1117	1075	23 40	42	2,1,1,2,3,3,3,4	19	1	82·8
29	1 14	552		448	8 20	104	13 22	32·6	5·5	2 9	27·1	18 40	1129	1026	5 38	103	4,4,4,2,2,3,3,2	24	1	82·6
30	22 45	593		487	13 23	106	13 40	31·4	14·6	23 1	16·8	17 48	1117	1052	2 10	65	3,2,2,2,2,3,2,4	20	1	82·7
31	18 34	534		478	11 2	56	12 32	33·0	16·2	0 26	16·8	21 41	1100	1051	0 1	49	2,2,2,1,2,0,1,2	12	1	82·7
Mean	- -	563		462	- -	101	- -	31·1	13·6	- -	19·5	- -	1113	1049	- -	64	2·3	18·9	0·81	82·5

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.

114 ESKDALEMUIR (H) — 16,000γ (0·16 C.G.S. unit) + — APRIL 1944

	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	511	526	519	518	518	518	515	509	503	497	499	504	512	518	523	524	527	530	527	515	522	495	541	549	517
2 d	499	514	535	530	532	536	479	311	323	240	240	399	474	488	452	444	462	471	507	500	507	507	522	514	*458*
3	483	502	465	486	460	495	509	499	491	492	491	491	486	491	491	502	509	514	530	514	522	526	534	531	501
4 d	523	522	514	517	513	517	492	507	507	494	456	456	488	496	518	519	514	515	519	514	518	523	542	522	509
5 d	527	520	511	512	515	528	519	521	509	491	487	477	503	516	511	521	530	511	532	518	512	523	545	520	515
6 d	499	514	513	513	525	525	527	480	467	454	451	479	502	495	514	516	509	538	530	533	520	515	523	532	507
7	521	519	524	519	519	523	522	514	494	489	492	490	488	498	511	522	519	539	523	518	536	497	496	511	512
8	523	512	507	516	517	522	522	522	514	506	501	500	479	491	512	518	519	521	526	529	542	538	527	526	516
9	526	525	521	523	522	520	518	514	507	492	482	489	505	521	529	534	530	531	545	535	533	518	542	527	520
10	542	526	537	523	496	550	543	518	487	480	492	480	499	501	513	526	529	531	531	528	533	531	535	530	519
11	542	523	501	521	525	530	522	519	517	506	501	500	504	507	514	524	534	503	536	527	530	553	535	511	520
12	514	516	522	524	526	526	514	518	516	512	505	505	514	512	521	531	533	535	533	533	529	529	535	533	522
13 q	529	529	523	529	531	531	523	523	521	511	503	500	502	507	514	519	523	527	531	532	533	533	533	533	523
14 q	531	531	532	530	531	534	538	539	535	522	507	501	507	512	518	526	527	530	534	534	534	534	534	534	527
15	538	536	530	530	532	535	536	531	522	508	503	497	501	522	540	541	558	553	558	567	550	559	540	541	*535*
16 d	534	540	540	535	526	530	518	491	470	454	440	436	457	487	493	503	518	548	492	509	513	527	525	526	505
17	511	514	508	520	520	519	520	512	505	491	487	482	487	510	514	518	517	530	531	526	525	524	526	518	513
18	503	520	521	521	522	523	520	522	513	503	498	498	504	510	511	518	526	534	531	529	526	530	538	534	519
19 q	534	521	519	521	522	522	520	515	510	507	503	507	518	529	530	520	523	530	531	534	533	534	534	534	523
20	532	533	523	526	529	523	524	524	520	511	503	504	514	526	533	535	540	534	530	531	533	532	534	534	526
21	534	533	534	532	529	528	526	522	515	506	502	504	505	507	531	541	537	539	538	537	537	540	538	537	527
22 q	534	534	534	533	531	530	527	522	518	506	499	502	505	511	518	526	536	542	538	538	538	538	538	537	526
23 q	535	534	534	537	537	536	534	526	520	510	505	503	507	519	524	530	534	542	540	541	538	538	537	537	529
24	536	554	557	555	545	536	531	526	509	511	502	501	497	507	527	526	538	539	528	531	536	536	525	541	529
25	540	520	521	527	523	526	523	515	508	503	499	501	509	521	525	532	534	541	538	542	538	532	523	534	524
26	530	518	524	524	525	518	522	527	523	508	499	500	506	520	525	532	550	549	538	533	541	532	538	532	526
27	530	531	528	528	520	529	527	523	519	510	499	491	506	530	543	545	541	549	549	542	557	534	542	533	529
28	519	518	526	515	523	527	526	523	517	520	512	502	507	515	524	534	523	534	546	542	526	533	538	538	525
29	538	541	541	540	526	540	534	516	511	513	514	511	514	502	502	532	535	545	538	540	542	540	538	538	529
30	538	536	534	532	529	506	521	515	486	494	515	507	511	510	515	522	531	546	538	542	539	540	538	558	525
Mean	525	525	523	525	522	526	522	510	502	491	*486*	491	501	509	517	523	527	532	532	531	531	530	*533*	531	519

MAGNETIC DECLINATION (WEST)

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

115 ESKDALEMUIR (D) — 12° + — APRIL 1944

	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	22·6	26·0	25·1	23·3	23·0	23·3	23·3	22·3	21·6	23·2	25·1	27·6	30·8	31·9	30·8	29·8	28·7	28·6	27·1	16·1	13·5	17·0	22·4	20·2	24·3
2 d	15·6	17·5	7·9	9·5	17·1	19·8	25·6	49·2	40·2	30·7	41·4	36·7	36·9	35·0	28·6	26·8	26·2	27·8	26·0	13·8	21·3	23·6	22·2	21·5	25·9
3	25·2	27·6	30·3	26·1	27·5	24·6	24·2	22·3	21·8	22·2	23·5	25·6	28·8	30·0	30·4	29·0	27·6	26·3	24·5	22·8	24·4	24·3	22·0	25·2	25·7
4 d	25·8	23·0	24·1	23·8	23·3	25·0	30·4	27·0	22·1	22·4	23·3	23·5	28·9	31·3	29·2	25·8	25·9	21·9	22·2	22·2	22·5	23·6	22·6	23·5	24·7
5 d	25·1	22·0	25·2	27·4	26·9	28·6	24·2	22·9	20·6	21·0	22·6	25·2	28·2	30·5	30·4	28·7	27·3	27·7	14·1	18·8	22·8	20·4	20·1	17·0	24·1
6 d	25·7	29·3	26·8	26·8	25·1	23·4	24·2	25·9	24·9	24·3	25·9	27·6	30·5	30·5	28·8	28·7	27·3	19·3	20·6	16·3	21·3	20·7	23·0	24·1	25·0
7	23·1	24·2	31·4	23·8	23·2	23·1	22·9	22·4	22·4	23·5	23·6	26·0	28·0	29·6	29·6	28·5	28·1	26·4	22·4	16·0	21·0	13·8	11·6	24·9	*23·7*
8	27·8	24·7	24·4	24·2	23·6	23·9	22·9	21·7	21·5	22·3	23·6	27·2	30·5	30·0	29·6	28·6	27·1	25·9	24·1	18·8	17·8	23·6	22·9	24·4	24·6
9	24·2	24·2	24·3	24·5	24·0	24·3	23·8	22·3	21·8	22·3	24·8	28·5	31·1	32·3	30·5	28·7	27·6	26·8	26·5	25·1	21·4	18·4	10·2	16·6	24·3
10	23·3	21·0	24·8	22·4	28·1	29·9	23·3	23·4	23·5	27·7	27·5	28·2	29·8	32·5	29·9	28·5	24·2	27·3	26·2	25·4	25·6	25·3	23·9	23·4	26·0
11	24·8	22·3	26·0	23·0	23·0	23·3	22·8	22·6	21·8	23·3	23·6	24·4	27·8	28·2	28·5	27·7	27·1	22·1	21·8	25·1	24·9	18·5	21·7	21·1	24·0
12	20·4	30·2	25·5	20·3	20·6	20·9	22·7	22·9	23·3	23·6	24·3	26·3	28·7	28·6	28·4	26·4	25·6	25·4	24·4	24·5	24·8	25·0	24·7	24·2	24·7
13 q	24·2	24·3	23·4	22·6	23·2	23·3	22·6	21·9	21·4	21·3	22·9	25·0	27·1	28·4	28·2	27·0	26·1	25·3	25·2	25·2	25·3	25·3	24·9	24·4	24·5
14 q	24·3	23·9	23·8	23·4	23·3	23·3	23·1	22·0	20·8	21·2	22·4	23·9	26·9	29·3	29·0	27·7	26·8	26·0	25·5	25·4	25·3	25·1	24·9	24·4	24·7
15	26·4	25·0	24·0	23·5	22·9	22·9	22·4	21·0	20·6	21·5	24·1	28·0	31·0	32·5	33·3	31·8	31·0	30·4	29·5	27·5	25·8	27·1	25·8	23·3	26·3
16 d	24·2	24·3	33·7	21·5	24·7	24·8	27·6	28·7	27·5	26·0	28·5	31·8	30·5	34·5	34·0	32·0	28·5	11·6	26·2	23·8	25·0	24·8	21·7	18·7	*26·4*
17	21·7	22·3	24·6	25·9	21·4	20·5	20·8	21·0	21·4	22·3	25·1	27·0	28·8	31·4	31·0	29·6	27·0	26·5	26·0	25·9	24·1	23·6	23·2	20·6	24·7
18	18·9	26·0	21·6	21·5	20·5	19·9	19·7	20·1	20·2	22·5	25·1	26·9	28·6	30·1	28·7	27·7	26·8	25·7	24·9	24·4	23·8	23·3	24·7	22·2	23·9
19 q	21·5	21·6	22·8	23·1	22·0	21·2	20·7	19·7	20·2	22·7	24·8	27·8	28·7	29·6	29·0	27·6	26·1	25·2	24·9	25·1	24·0	23·1	24·3	24·2	24·2
20	24·9	24·4	22·3	23·3	21·3	19·3	19·8	19·7	20·4	22·0	24·9	27·0	28·9	29·8	29·1	27·7	27·1	25·8	24·4	24·2	24·1	24·2	24·4	24·6	24·3
21	24·8	24·9	24·6	23·3	22·3	21·4	20·4	20·1	20·7	23·1	25·1	27·9	30·5	30·1	27·9	26·9	25·7	25·1	24·8	24·2	24·5	24·6	24·4	24·4	24·7
22 q	24·6	24·5	24·2	24·2	23·4	22·5	21·3	20·8	20·8	22·5	24·4	27·0	29·6	30·9	29·5	27·4	25·8	24·7	24·5	24·3	24·4	24·6	24·4	24·3	24·8
23 q	24·2	24·1	24·2	24·0	23·3	22·7	21·7	21·0	20·6	21·3	22·8	24·9	27·5	29·6	29·8	28·9	27·7	26·2	25·4	25·1	25·0	24·9	24·5	24·4	24·7
24	24·4	24·2	23·3	22·1	21·5	22·3	19·6	20·9	21·6	21·4	23·8	27·6	29·4	29·4	31·0	29·2	28·4	26·9	27·1	26·3	23·8	22·0	23·2	23·3	24·7
25	21·5	18·9	21·6	21·1	22·9	22·2	21·3	20·9	21·4	22·2	23·9	26·1	28·0	29·4	29·2	28·6	28·2	28·0	24·9	24·7	24·6	23·5	21·6	17·8	23·9
26	20·6	19·7	20·4	21·5	22·2	21·6	24·2	22·4	20·6	20·9	23·4	27·4	29·6	30·8	30·0	28·8	28·7	24·2	22·6	26·0	26·4	22·2	20·2	19·7	23·9
27	20·5	23·6	22·4	23·0	23·4	23·2	21·0	19·8	20·0	20·7	24·4	28·9	32·3	32·8	31·9	31·3	31·0	26·9	28·9	25·9	21·4	23·3	22·2	21·5	25·0
28	20·8	26·9	22·7	23·3	22·4	21·4	20·7	20·3	20·2	21·6	23·1	25·6	28·2	31·1	31·4	30·9	29·8	28·8	26·9	18·9	24·5	25·1	24·7	24·6	24·7
29	24·2	24·2	23·6	23·2	23·3	23·1	21·0	22·2	22·5	22·9	25·0	27·8	30·2	30·8	29·9	27·6	27·0	27·0	25·5	22·9	24·2	23·8	24·0	24·2	25·0
30	23·9	25·1	23·0	21·8	19·7	22·4	22·0	23·4	23·3	25·1	24·2	26·6	26·3	26·7	25·3	25·6	25·4	25·7	25·1	25·1	25·0	25·0	24·8	22·5	24·3
Mean	23·3	24·0	24·1	22·9	23·0	22·9	22·7	23·0	*22·3*	22·9	24·9	27·1	29·4	*30·6*	29·8	28·5	27·3	25·5	24·7	23·0	23·4	23·0	22·5	22·5	24·7

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

116 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — APRIL 1944

	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	1085	1081	1080	1087	1091	1092	1094	1096	1092	1088	1082	1079	1074	1080	1087	1091	1096	1098	1103	1115	1112	1097	1081	1056	1089
2 d	1056	1026	1008	1019	1042	1058	1068	1049	1015	1069	1085	1130	1095	1098	1112	1118	1116	1120	1145	1166	1139	1121	1095	1076	*1084*
3	1086	1061	1055	1055	1064	1079	1089	1097	1098	1103	1099	1093	1091	1096	1103	1105	1106	1108	1109	1115	1104	1104	1097	1069	1091
4 d	1068	1075	1087	1091	1093	1091	1085	1086	1093	1095	1097	1104	1097	1098	1105	1118	1118	1128	1122	1118	1111	1107	1086	1087	1098
5 d	1085	1081	1090	1081	1081	1082	1091	1097	1099	1102	1099	1097	1089	1092	1098	1109	1124	1122	1126	1117	1110	1099	1071	1070	1096
6 d	1073	1066	1069	1080	1081	1087	1091	1093	1094	1098	1105	1099	1091	1099	1105	1112	1114	1126	1115	1110	1104	1099	1087	1076	1095
7	1086	1087	1050	1072	1084	1087	1091	1094	1097	1097	1093	1088	1087	1091	1097	1098	1103	1104	1123	1134	1099	1069	1078	1068	1091
8	1054	1067	1081	1090	1092	1092	1095	1093	1091	1086	1085	1081	1087	1096	1098	1099	1103	1105	1105	1109	1098	1085	1086	1092	1090
9	1093	1096	1098	1098	1097	1096	1098	1099	1098	1093	1091	1084	1078	1083	1090	1092	1096	1096	1093	1097	1100	1100	1080	1073	1092
10	1068	1067	1074	1079	1068	1051	1055	1067	1074	1081	1082	1088	1091	1096	1106	1110	1113	1104	1100	1099	1098	1099	1098	1095	1086
11	1074	1068	1076	1084	1091	1093	1097	1098	1097	1093	1093	1092	1090	1087	1090	1096	1105	1123	1121	1110	1105	1091	1082	1079	1093
12	1067	1044	1044	1069	1081	1086	1091	1089	1090	1090	1088	1090	1094	1093	1089	1089	1092	1093	1099	1099	1100	1099	1099	1097	1086
13 q	1095	1094	1094	1095	1095	1095	1094	1094	1094	1090	1087	1083	1083	1086	1091	1093	1096	1096	1096	1094	1093	1092	1092	1092	1092
14 q	1093	1094	1094	1094	1094	1093	1093	1092	1087	1085	1086	1085	1080	1081	1085	1087	1091	1093	1094	1093	1092	1093	1092	1092	1090
15	1089	1085	1090	1091	1092	1091	1092	1091	1091	1090	1086	1084	1080	1082	1085	1083	1086	1090	1092	1093	1103	1075	1066	1080	1087
16 d	1089	1090	1056	1037	1051	1066	1068	1072	1078	1089	1097	1104	1116	1130	1144	1158	1164	1171	1147	1132	1121	1109	1103	1092	*1103*
17	1095	1094	1092	1079	1085	1087	1091	1092	1092	1092	1089	1086	1085	1086	1093	1099	1099	1098	1100	1099	1101	1103	1099	1093	1093
18	1091	1079	1070	1083	1088	1091	1091	1090	1091	1088	1085	1082	1085	1086	1087	1091	1097	1100	1103	1101	1099	1098	1093	1085	1090
19 q	1084	1086	1090	1092	1093	1093	1093	1093	1091	1088	1085	1081	1078	1084	1092	1097	1098	1098	1098	1097	1097	1096	1093	1092	1091
20	1091	1086	1088	1087	1087	1090	1087	1086	1084	1084	1084	1080	1079	1081	1086	1091	1093	1097	1098	1099	1098	1097	1094	1092	1089
21	1092	1092	1091	1091	1092	1092	1092	1091	1087	1081	1079	1075	1077	1079	1081	1085	1086	1087	1091	1091	1090	1091	1091	1091	1087
22 q	1092	1092	1092	1092	1091	1091	1091	1092	1088	1082	1077	1073	1069	1079	1086	1091	1092	1092	1092	1091	1088	1091	1091	1091	1088
23 q	1092	1092	1092	1092	1092	1092	1092	1092	1091	1086	1081	1080	1079	1080	1085	1088	1091	1091	1092	1091	1091	1090	1090	1090	1089
24	1091	1086	1085	1086	1086	1085	1080	1076	1075	1075	1074	1068	1069	1078	1084	1087	1091	1101	1100	1098	1096	1088	1089	1082	1085
25	1062	1064	1079	1085	1087	1087	1087	1090	1088	1086	1086	1086	1082	1084	1090	1091	1092	1094	1102	1104	1099	1097	1097	1091	1088
26	1079	1081	1085	1086	1086	1085	1076	1076	1076	1075	1074	1072	1069	1074	1081	1091	1092	1103	1118	1106	1097	1098	1094	1085	1086
27	1081	1081	1085	1085	1082	1084	1086	1086	1082	1076	1071	1068	1068	1075	1084	1090	1103	1117	1116	1122	1110	1098	1090	1078	1088
28	1082	1074	1073	1080	1075	1079	1082	1084	1085	1082	1076	1073	1073	1076	1084	1093	1104	1106	1112	1116	1106	1097	1095	1091	1087
29	1091	1089	1088	1087	1088	1081	1082	1083	1084	1080	1077	1073	1072	1079	1085	1091	1092	1093	1098	1099	1095	1093	1092	1091	1087
30	1086	1082	1086	1087	1087	1085	1072	1074	1076	1082	1085	1084	1085	1090	1092	1094	1093	1096	1099	1097	1096	1092	1092	1079	1087
Mean	1082	1079	*1078*	1081	1084	1085	1087	1087	1086	1087	1086	1085	1083	1087	1093	1098	1101	1105	1107	*1107*	1102	1096	1090	1084	1090

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

117 ESKDALEMUIR — APRIL 1944

	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 12° +		Minimum 12° +		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	22 47	*623*	486	24 0	137	13 30	33·2	8·8	19 47	24·4	19 59	1122	1052	23 30	70	3,0,0,2,2,2,4,5	18	1	82·7
2 d	2 18	550	*130*	9 39	*420*	7 59	*59·5*	5·1	2 46	*54·4*	18 58	1188	*1007*	2 40	181	4,4,6,7,5,3,5,3	37	2	82·7
3	22 54	571	444	4 29	127	2 30	35·9	18·8	0 8	17·1	19 9	1120	1043	2 43	77	4,4,3,2,2,2,3,3	23	1	82·7
4 d	22 6	569	410	10 55	159	13 45	32·8	17·8	17 25	15·0	17 20	1130	1067	0 40	63	2,2,3,4,4,3,2,3	23	1	82·6
5 d	22 10	580	454	11 12	126	5 22	31·8	6·3	18 34	25·5	18 26	1129	1065	22 50	64	3,4,2,3,3,4,5,4	28	1	82·6
6 d	17 40	590	433	10 9	157	13 1	32·4	8·8	17 28	23·6	17 26	1131	1061	1 12	70	3,2,4,3,3,4,4,3	26	1	82·6
7	20 40	616	463	21 6	153	2 16	36·2	7·1	21 29	29·1	19 3	1140	1043	2 31	97	4,1,2,3,2,3,5,5	25	1	82·6
8	20 35	582	436	12 59	146	12 44	32·2	10·8	20 31	21·4	19 20	1111	1049	0 31	62	3,1,1,2,4,2,4,3	20	1	82·4
9	22 37	570	480	10 33	90	13 23	33·2	4·1	22 26	29·1	21 16	1105	1072	23 20	33	1,1,1,1,1,1,3,3,4	15	1	82·4
10	0 49	569	459	9 29	110	13 56	34·2	16·7	0 1	17·5	16 19	1115	1046	5 42	69	3,4,4,3,3,3,1,2	23	1	82·3
11	21 25	575	483	17 30	92	12 44	28·9	11·4	21 17	17·5	17 45	1129	1066	1 26	63	3,1,2,2,1,4,3,4	20	1	82·4
12	19 24	544	493	11 55	51	1 47	33·7	18·8	0 29	14·9	20 22	1100	1036	2 0	64	4,2,2,2,1,1,1,1	14	1	82·4
13 q	21 7	538	499	11 13	*39*	13 47	28·7	20·8	8 20	7·9	0 1	1099	1081	12 0	18	0,1,1,0,0,0,0,0	2	0	82·4
14 q	1 15	541	499	11 23	42	13 48	29·6	20·5	8 55	9·1	18 5	1096	1078	12 54	18	0,0,1,2,1,1,0,0	5	0	82·4
15	21 23	585	495	11 50	90	14 42	35·1	20·4	8 13	14·7	20 49	1105	1056	21 55	49	2,0,0,1,3,3,3,4	16	1	82·4
16 d	17 13	584	424	11 0	160	2 34	44·4	*0·8*	17 10	43·6	17 8	*1205*	1014	3 1	*191*	5,3,3,2,3,5,3,3	27	1	82·4
17	18 18	538	479	11 30	59	13 52	32·2	17·2	23 58	15·0	20 38	1104	1075	3 25	29	3,3,1,1,2,2,2,3	17	0	82·3
18	22 47	553	474	11 5	79	13 20	31·0	17·1	0 20	13·9	18 40	1105	1061	2 1	44	4,1,1,1,1,1,1,2	12	0	82·3
19 q	21 8	538	499	10 28	*39*	13 45	30·0	19·6	7 26	10·4	17 51	1099	1076	12 26	23	2,0,1,1,2,2,2,2	12	0	82·2
20	16 20	544	502	10 4	42	13 29	30·2	18·9	5 39	11·3	19 32	1100	1079	12 40	21	2,2,1,1,1,2,1,1	11	0	82·2
21	15 37	549	494	13 0	55	12 50	33·2	19·7	7 54	13·5	1 10	1093	1074	11 42	19	1,1,1,1,3,2,1,0	10	0	82·2
22 q	17 22	547	498	10 5	49	13 13	31·3	20·5	8 1	10·8	18 1	1094	1067	12 25	27	1,1,0,1,0,1,0,1	5	0	82·2
23 q	17 53	545	501	11 31	44	14 6	31·0	20·5	8 30	10·5	18 19	1093	1078	12 34	*15*	0,0,0,1,1,1,0,0	3	0	82·2
24	1 19	573	473	12 23	100	14 36	32·2	16·8	7 22	15·4	17 50	1105	1067	11 58	38	3,3,3,2,3,2,2,3	21	1	82·2
25	0 18	551	496	11 0	55	13 39	30·4	16·6	22 57	13·8	19 4	1106	1056	1 4	50	3,2,1,1,1,2,2,3	15	0	82·1
26	16 30	561	494	11 38	67	13 47	31·3	15·4	22 57	15·9	18 21	1121	1067	12 38	54	2,2,2,1,1,2,2,3	15	1	82·1
27	20 20	589	474	11 31	115	13 20	33·2	15·5	20 0	17·7	19 58	1131	1067	11 47	64	2,2,1,3,3,2,4,3	20	1	82·1
28	19 33	558	492	11 20	66	13 50	32·3	16·6	19 20	15·7	19 17	1118	1068	2 0	50	3,2,1,2,3,3,3,1	18	1	82·0
29	17 31	562	453	13 44	79	13 19	32·4	19·8	6 45	12·6	19 7	1102	1069	12 14	33	1,2,3,3,3,3,2,1	18	1	82·1
30	17 19	573	452	8 40	121	1 10	28·6	17·9	4 58	10·7	18 23	1100	1069	6 20	31	1,3,4,4,2,3,2,3	22	1	82·1
Mean	- -	566	463	- -	102	- -	33·4	15·0	- -	18·4	- -	1117	1060	- -	56	2·2	17·4	0·70	82·3

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.

118 ESKDALEMUIR (H) — 16,000γ (0·16 C.G.S. unit) + — MAY 1944

	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	535	525	529	532	526	521	530	523	508	495	495	492	502	509	554	572	554	545	527	521	527	540	523	519	525
2 d	506	507	511	514	515	478	511	516	514	503	484	467	491	518	525	538	521	532	538	538	540	537	527	537	*515*
3	530	527	520	522	513	517	515	512	507	503	498	503	506	488	513	516	532	537	537	531	527	530	527	532	518
4 d	531	531	527	526	527	527	525	518	514	504	503	486	491	511	518	546	518	566	521	541	527	533	535	538	523
5	551	553	513	524	521	520	518	514	508	506	492	492	509	501	510	511	530	558	527	540	537	534	534	536	522
6 d	553	530	526	522	519	513	519	507	506	503	498	474	502	520	518	518	539	556	576	539	534	539	536	529	524
7	527	525	522	520	507	514	503	484	512	504	501	497	513	518	520	521	530	554	542	545	547	539	527	533	521
8	531	510	522	528	516	514	514	507	483	499	508	509	511	517	523	531	537	538	538	530	528	529	530	530	520
9	529	529	527	525	527	529	526	522	522	512	507	509	514	516	525	534	544	554	553	538	535	534	536	536	528
10	534	524	526	530	531	532	529	522	517	506	502	507	515	526	530	539	547	551	546	550	547	545	538	546	531
11	538	530	533	534	535	534	529	525	520	515	514	513	516	525	534	542	552	558	556	557	554	548	544	543	535
12	546	545	534	532	533	529	522	518	517	513	506	510	509	522	530	536	550	549	554	556	546	545	555	542	533
13 q	534	533	533	534	533	531	525	521	517	506	502	502	509	518	528	533	537	546	552	545	544	542	541	545	530
14	543	543	543	544	541	531	526	530	525	511	503	498	505	513	516	526	533	541	543	546	539	539	537	537	530
15	545	536	525	531	539	533	533	536	526	517	513	509	504	511	521	526	533	539	540	535	533	532	533	533	528
16 q	533	530	529	529	532	529	528	525	522	516	511	511	513	517	521	530	533	540	544	544	542	537	537	537	529
17	536	536	533	533	533	530	525	524	520	521	522	521	528	534	531	541	545	548	545	545	549	548	541	545	535
18 q	537	533	528	529	532	530	521	512	506	507	512	525	533	533	533	533	537	541	548	552	556	554	552	544	533
19	545	545	542	533	533	530	525	516	510	513	517	521	529	529	532	542	548	552	553	552	550	545	545	541	535
20 q	539	542	540	539	538	535	526	518	511	506	509	513	518	520	528	537	546	548	549	548	545	545	545	545	533
21 q	545	544	546	543	544	541	537	536	534	521	508	511	519	525	533	530	533	541	549	545	549	546	550	541	536
22	537	537	539	540	542	540	532	526	522	518	519	521	526	534	537	537	551	553	549	553	551	555	549	550	*538*
23	548	546	544	535	538	541	533	521	514	506	506	513	522	526	549	540	533	537	545	541	545	546	549	546	534
24	557	545	539	542	537	531	516	506	511	502	514	524	529	529	533	535	536	537	552	551	542	533	539	534	532
25	533	530	529	526	518	530	533	521	519	517	502	499	510	517	518	533	545	553	546	556	551	546	548	548	530
26	553	554	530	529	537	533	529	521	514	509	502	509	518	524	539	542	543	538	544	542	541	540	540	540	532
27	540	544	550	553	533	517	533	537	529	519	522	513	513	521	530	539	548	553	551	547	543	541	537	536	535
28	534	534	537	537	537	537	533	530	525	525	520	519	521	524	526	536	548	550	550	555	548	550	545	537	536
29 d	542	525	532	536	542	542	533	527	518	506	494	502	510	516	510	544	545	560	556	557	562	576	541	486	532
30	537	524	528	525	527	532	525	507	504	512	510	490	506	508	513	544	543	549	551	549	539	533	534	531	526
31	532	533	531	534	532	530	517	525	524	515	514	521	526	522	532	569	565	562	541	548	544	539	531	533	534
Mean	538	534	531	532	530	527	525	520	515	510	507	*506*	513	519	527	536	541	*548*	546	545	543	542	539	537	529

MAGNETIC DECLINATION (WEST)

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

119 ESKDALEMUIR (D) — 12° + — MAY 1944

	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	20·6	22·6	20·5	19·7	19·7	19·7	22·4	21·5	21·7	25·5	28·6	30·5	31·6	35·4	32·7	30·1	29·7	22·6	26·9	18·0	22·5	22·6	17·4	19·4	24·2
2 d	24·3	30·0	25·2	23·0	22·6	30·1	29·7	23·9	22·4	23·6	27·1	27·8	30·3	27·4	28·6	29·3	25·1	25·3	26·2	25·2	23·2	24·2	23·0	25·0	*25·9*
3	25·3	24·3	26·1	26·0	25·7	24·4	20·7	19·8	19·9	21·8	25·2	27·1	29·6	29·2	28·2	26·5	24·9	24·6	23·9	24·2	24·1	23·5	24·2	24·1	24·7
4 d	24·0	23·8	22·7	22·4	21·5	21·2	20·9	19·9	20·2	21·4	24·6	27·5	30·7	30·5	30·0	29·6	29·5	29·5	25·4	23·4	15·7	18·3	23·5	24·1	24·2
5	24·3	22·3	19·6	19·7	19·6	20·2	20·7	20·2	19·9	21·3	23·8	25·1	27·1	27·4	24·6	27·3	27·3	27·4	23·9	24·2	23·1	24·6	24·5	23·6	23·4
6 d	28·8	24·2	21·1	20·5	20·5	20·2	19·9	19·8	21·5	23·8	26·6	27·9	27·9	29·4	28·4	23·8	25·9	24·9	17·8	22·1	24·8	23·9	24·1	22·7	23·8
7	24·5	23·6	25·1	24·4	23·2	23·4	26·4	28·1	25·7	24·4	26·1	28·5	28·8	28·5	27·4	25·1	23·9	23·6	25·4	23·7	24·3	20·4	23·2	24·1	25·1
8	25·5	28·5	25·9	22·1	19·7	21·0	19·6	19·7	19·8	23·0	25·3	28·2	30·2	29·5	27·6	26·6	26·0	25·5	24·4	23·8	23·1	21·5	24·4	24·0	24·4
9	23·5	23·4	23·4	23·3	22·3	21·3	20·8	19·9	19·9	21·5	24·2	27·2	29·2	29·8	28·9	27·9	27·2	26·1	24·4	20·2	21·6	22·8	23·4	23·3	24·0
10	23·0	22·4	26·5	23·3	21·9	20·7	19·8	19·6	19·7	21·1	24·0	26·8	28·1	28·6	28·5	27·9	26·8	26·0	25·6	25·4	25·1	24·1	21·5	23·8	24·2
11	19·7	21·0	21·6	22·3	21·9	20·0	18·9	19·2	20·0	22·2	23·8	26·1	27·9	28·4	27·8	27·6	27·3	26·8	26·1	25·8	25·3	23·8	22·4	22·8	23·7
12	23·4	21·6	19·7	20·3	20·2	19·6	19·8	20·3	20·7	21·5	23·3	25·9	27·8	28·4	28·0	28·0	28·0	27·8	25·6	23·8	25·6	24·4	21·1	22·2	23·6
13 q	22·1	22·4	21·7	21·9	21·5	20·7	20·6	20·6	20·5	20·7	23·1	25·5	27·9	28·3	28·4	28·6	28·6	27·5	26·7	25·6	24·9	23·5	24·2	24·5	24·2
14	23·9	23·3	23·1	22·5	20·6	20·3	19·8	19·9	19·5	20·5	21·6	23·4	25·1	26·2	26·8	27·0	25·6	24·6	23·9	23·9	23·8	23·3	23·4	23·2	23·1
15	25·6	21·3	18·5	19·0	16·5	17·4	20·4	21·0	20·6	21·5	23·8	26·7	27·8	28·2	28·0	27·4	25·8	25·0	23·5	23·4	23·3	23·3	23·3	23·3	*23·1*
16 q	23·3	23·3	23·0	22·8	22·2	20·6	19·9	19·7	19·8	21·6	24·1	26·1	28·0	28·6	27·9	27·0	25·6	25·0	23·5	23·1	23·6	23·6	23·2	23·3	23·7
17	23·7	24·0	21·9	21·4	20·5	20·0	19·2	18·9	19·7	22·1	24·2	26·3	28·0	29·2	28·6	27·4	26·8	26·1	25·6	25·1	25·0	24·9	22·9	21·7	23·9
18 q	21·1	22·6	21·8	21·3	20·2	19·2	19·2	20·4	21·2	23·3	25·8	27·5	28·2	27·8	27·1	26·5	26·0	25·6	25·5	25·5	25·5	25·2	23·9	23·8	23·9
19	24·3	23·9	21·9	20·6	19·0	17·9	18·7	18·8	20·1	23·4	26·8	28·7	30·3	30·0	28·8	27·8	25·2	24·1	22·8	24·1	25·1	25·0	24·3	24·2	24·0
20 q	24·0	24·1	23·4	22·8	22·0	19·8	18·8	19·5	20·3	23·0	25·8	28·0	29·7	30·0	30·0	27·9	25·7	24·2	23·5	23·6	24·0	24·2	24·1	23·8	24·3
21 q	24·0	23·5	23·4	22·4	20·7	18·8	17·6	17·2	17·7	18·9	22·0	25·1	28·6	29·9	29·5	28·5	26·0	24·2	23·3	23·3	24·0	23·8	23·4	20·7	23·2
22	22·6	23·4	23·1	22·3	20·3	18·7	17·6	17·7	17·6	19·9	23·3	26·7	29·7	30·7	30·7	29·6	28·2	26·0	24·9	25·1	24·0	21·4	23·3	23·3	23·8
23	23·0	22·5	22·4	22·2	22·1	17·9	16·1	16·4	17·5	21·5	25·6	29·2	31·1	31·0	32·3	31·8	29·6	27·0	26·5	24·8	24·2	23·7	23·5	23·5	24·4
24	20·5	18·6	18·4	19·2	17·5	18·4	17·9	20·5	28·5	29·2	28·7	29·6	30·4	30·0	30·3	30·4	29·6	28·4	27·4	26·0	22·1	21·5	23·2	22·3	24·5
25	22·5	21·8	22·1	22·6	24·1	22·9	20·7	19·6	19·4	21·3	24·5	27·4	29·4	31·2	30·9	28·9	27·0	26·2	24·6	24·1	24·4	24·3	24·1	23·9	24·5
26	23·2	23·4	20·7	19·9	20·6	19·8	18·9	18·3	18·1	19·0	22·7	25·0	27·8	28·5	28·7	28·7	27·8	26·3	24·9	24·5	24·0	23·5	23·3	23·2	23·4
27	22·8	23·7	24·2	20·4	18·7	20·7	20·8	19·2	18·8	22·0	23·3	27·3	28·7	28·3	28·8	27·4	27·2	26·2	25·1	24·4	24·2	23·8	23·3	23·2	23·9
28	22·9	22·7	22·6	22·2	20·7	19·7	19·8	20·3	21·2	22·3	23·2	25·1	26·1	26·7	28·0	27·4	26·4	25·2	25·2	25·2	24·7	24·0	24·1	23·5	23·7
29 d	18·1	20·3	21·1	20·4	22·0	20·6	21·3	22·8	20·8	23·4	24·9	27·0	28·9	29·8	29·0	28·9	27·6	22·8	26·0	25·7	23·3	19·6	20·5	23·3	23·7
30	20·4	18·4	19·5	21·4	21·8	20·5	19·5	22·0	20·9	21·0	23·1	24·3	25·1	27·4	25·8	26·2	26·2	25·7	25·8	25·3	24·4	24·1	24·1	23·6	23·2
31	23·3	23·1	23·6	23·9	22·0	21·6	21·2	20·0	19·8	22·3	25·1	27·1	28·1	27·3	26·4	27·4	26·5	24·7	25·6	26·6	26·6	23·4	22·4	19·8	24·1
Mean	23·2	23·0	22·4	21·8	21·0	20·6	20·3	*20·1*	20·4	22·2	24·7	26·9	28·7	*29·1*	28·6	27·9	26·9	25·6	24·8	24·2	23·9	23·2	23·1	23·1	24·0

'2 omitted

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

120 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — MAY 1944

	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	1062	1067	1079	1084	1086	1086	1080	1080	1084	1081	1078	1081	1086	1097	1151	1170	1200	1165	1140	1142	1121	1097	1082	1051	*1102*
2 d	1061	1065	1071	1083	1085	1070	1052	1068	1075	1079	1080	1086	1093	1114	1106	1104	1111	1106	1105	1104	1100	1091	1091	1082	1087
3	1080	1085	1084	1076	1079	1079	1085	1086	1086	1086	1079	1074	1078	1091	1093	1098	1098	1097	1097	1097	1097	1097	1094	1093	1088
4 d	1093	1093	1094	1093	1092	1092	1091	1091	1090	1082	1079	1079	1077	1084	1090	1093	1097	1100	1133	1123	1117	1091	1091	1086	1094
5	1064	1044	1045	1062	1079	1086	1087	1087	1087	1084	1084	1086	1086	1097	1116	1106	1098	1105	1118	1112	1105	1099	1098	1093	1089
6 d	1076	1055	1066	1079	1086	1090	1091	1091	1088	1085	1081	1086	1090	1093	1104	1106	1104	1110	1114	1110	1102	1097	1091	1089	1091
7	1090	1092	1091	1087	1086	1091	1085	1074	1071	1078	1080	1085	1091	1097	1106	1115	1118	1117	1115	1110	1093	1091	1092	1092	1094
8	1082	1075	1068	1079	1081	1087	1087	1087	1087	1087	1082	1079	1081	1087	1093	1094	1097	1097	1098	1097	1097	1096	1092	1091	1088
9	1092	1093	1094	1095	1095	1093	1090	1087	1086	1079	1076	1074	1074	1080	1084	1088	1092	1097	1100	1106	1103	1098	1094	1087	1090
10	1088	1091	1090	1091	1093	1093	1092	1091	1088	1086	1080	1075	1068	1076	1081	1086	1088	1093	1094	1093	1092	1093	1095	1086	1088
11	1084	1087	1087	1090	1091	1091	1088	1087	1082	1075	1073	1069	1070	1079	1081	1084	1086	1088	1091	1090	1088	1090	1091	1091	1085
12	1086	1080	1080	1085	1090	1091	1088	1083	1079	1075	1073	1072	1074	1079	1081	1082	1086	1093	1097	1097	1093	1092	1087	1081	1084
13 q	1084	1086	1088	1089	1091	1087	1086	1086	1081	1078	1075	1074	1075	1078	1081	1082	1085	1088	1092	1092	1091	1091	1088	1086	1085
14	1086	1086	1086	1087	1091	1091	1087	1082	1080	1083	1078	1074	1074	1076	1081	1090	1093	1093	1092	1092	1092	1092	1091	1090	1086
15	1079	1069	1079	1080	1080	1079	1078	1075	1074	1074	1074	1067	1069	1075	1080	1087	1092	1094	1097	1097	1093	1091	1090	1088	1082
16 q	1087	1087	1087	1088	1090	1091	1087	1087	1086	1084	1074	1073	1075	1079	1083	1085	1091	1093	1096	1094	1093	1093	1092	1091	1087
17	1086	1081	1082	1084	1086	1086	1085	1082	1079	1074	1069	1068	1070	1078	1081	1082	1085	1087	1091	1091	1090	1091	1092	1087	1083
18 q	1084	1081	1085	1087	1091	1091	1092	1089	1082	1072	1067	1064	1068	1079	1080	1087	1091	1091	1090	1089	1088	1087	1087	1087	1084
19	1086	1086	1086	1087	1090	1088	1087	1086	1082	1069	1063	1062	1068	1075	1081	1086	1091	1094	1096	1092	1090	1090	1089	1088	1084
20 q	1087	1086	1086	1087	1087	1086	1085	1085	1084	1079	1070	1072	1073	1078	1081	1087	1093	1093	1092	1087	1086	1086	1086	1087	1084
21 q	1087	1087	1087	1088	1091	1089	1086	1082	1081	1081	1080	1075	1073	1073	1079	1085	1091	1093	1093	1091	1087	1087	1086	1085	1085
22	1085	1085	1086	1087	1088	1087	1088	1087	1082	1078	1069	1069	1073	1081	1083	1087	1089	1093	1097	1093	1093	1086	1086	1086	1085
23	1087	1087	1087	1086	1081	1075	1074	1073	1068	1063	1062	1064	1069	1074	1080	1086	1091	1092	1091	1091	1091	1090	1087	1086	*1081*
24	1075	1067	1077	1080	1083	1081	1080	1083	1076	1074	1075	1075	1079	1080	1088	1096	1103	1105	1105	1109	1110	1103	1082	1074	1086
25	1086	1091	1092	1092	1090	1084	1085	1086	1086	1079	1074	1070	1074	1079	1087	1090	1092	1097	1102	1100	1098	1093	1092	1089	1088
26	1082	1069	1069	1080	1086	1086	1085	1085	1083	1077	1079	1079	1079	1080	1085	1091	1097	1099	1097	1093	1092	1091	1090	1089	1085
27	1091	1089	1086	1082	1086	1086	1081	1080	1079	1079	1078	1079	1083	1087	1091	1096	1099	1103	1101	1097	1093	1092	1091	1091	1088
28	1091	1091	1091	1091	1092	1092	1091	1091	1086	1078	1070	1071	1079	1090	1092	1093	1095	1098	1097	1092	1092	1090	1090	1087	1089
29 d	1064	1067	1076	1080	1080	1081	1085	1081	1081	1080	1081	1081	1083	1093	1099	1100	1117	1127	1111	1108	1100	1082	1057	1028	1085
30	1013	1043	1052	1069	1078	1084	1086	1086	1086	1080	1078	1080	1087	1099	1105	1105	1104	1100	1098	1097	1097	1093	1092	1092	1083
31	1090	1089	1091	1089	1091	1087	1091	1089	1086	1085	1082	1080	1085	1091	1095	1098	1108	1123	1116	1109	1104	1100	1093	1090	1094
Mean	1080	1079	1081	1084	1087	1087	1085	1084	1082	1079	1076	*1075*	1077	1085	1091	1095	1100	1101	*1102*	1100	1096	1092	1089	1085	1087

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

121 ESKDALEMUIR — MAY 1944

	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 12° +	Minimum 12° +	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 d	17 30	616	463	17 2	153	14 12 *41·7*	12·4 22 31	29·3	16 18	*1242*	1043	23 35	*199*	3,2,2,2,5,5,4,4	27	2	82·2
2 d	15 29	558	*438*	11 20	120	5 56 35·9	20·2 0 1	15·7	13 57	1116	1045	6 15	71	3,4,4,4,4,3,2,2	26	1	82·2
3	17 27	542	466	13 6	76	12 19 30·6	17·9 7 23	12·7	16 7	1099	1073	11 50	26	2,2,1,1,3,2,1,2	14	1	82·2
4 d	21 3	593	475	11 41	118	13 10 31·3	*1·8* 20 57	*29·5*	18 50	1140	1075	12 30	65	1,1,1,3,2,4,5,5	22	1	82·2
5	0 38	584	467	10 44	117	13 18 30·0	17·9 6 39	12·1	18 49	1121	1037	1 52	84	4,2,2,3,4,3,3,2	23	1	82·2
6 d	18 22	*635*	456	11 29	*179*	0 49 32·3	10·6 18 15	21·7	17 50	1116	1054	1 11	62	3,2,2,3,3,4,4,2	23	1	82·2
7	20 19	572	463	7 25	109	11 57 30·3	18·6 21 19	11·7	16 56	1122	1067	8 12	55	2,2,4,2,3,4,3,2	22	1	82·1
8	16 29	545	475	8 30	70	1 41 33·0	18·6 7 10	14·4	18 59	1099	1063	2 1	36	3,3,2,3,2,1,1,2	17	1	82·1
9	17 57	562	502	11 6	60	13 8 30·4	17·0 19 38	13·4	19 34	1110	1073	11 50	37	1,1,2,1,1,1,3,2	12	0	82·1
10	17 40	557	499	10 48	58	13 8 28·8	18·9 7 37	9·9	22 48	1097	1067	12 40	30	2,0,0,1,1,1,1,2	8	0	82·1
11	16 38	565	507	11 53	58	12 52 28·9	18·1 6 28	10·8	22 2	1092	1068	12 15	24	2,1,1,1,2,2,1,2	12	0	82·1
12	22 29	576	499	11 10	77	14 47 28·7	19·2 5 34	9·5	18 52	1099	1068	11 41	31	2,2,1,2,1,2,2,3	15	0	82·1
13 q	18 21	555	501	9 58	54	16 15 29·0	19·6 7 47	9·4	19 37	1093	1073	11 50	*20*	0,1,1,0,0,1,1,1	5	0	82·3
14	19 10	549	495	11 40	54	14 42 27·2	18·7 6 47	*8·5*	16 58	1093	1073	11 14	*20*	0,1,2,2,1,0,1,1	8	0	82·4
15	0 43	553	501	12 40	52	12 58 28·6	16·2 4 22	12·4	18 50	1098	1063	11 59	35	3,2,2,1,0,0,1,0	9	0	82·4
16 q	18 41	551	502	12 48	49	12 54 29·1	18·1 7 42	11·0	19 0	1097	1071	11 44	26	0,0,1,1,2,1,1,0	6	0	82·5
17	20 46	552	516	10 29	*36*	13 23 29·7	18·1 7 10	11·6	22 50	1093	1067	10 47	26	2,1,2,1,2,1,1,2	12	0	82·5
18 q	20 24	557	505	9 22	52	12 22 28·7	18·8 6 8	9·9	4 50	1093	1063	11 10	30	2,1,1,2,2,1,1,2	12	0	82·5
19	18 39	557	508	8 10	49	12 38 30·7	17·6 5 55	13·1	18 55	1097	1061	11 30	36	2,0,1,2,2,2,2,1	12	0	82·5
20 q	18 0	552	506	9 40	46	13 51 30·5	18·7 6 49	11·8	17 15	1094	1068	10 50	26	1,0,0,1,1,1,0,0	4	0	82·5
21 q	22 30	560	506	10 56	54	14 50 29·6	17·0 7 17	12·6	17 40	1096	1070	12 20	26	1,0,1,1,1,1,1,2	8	0	82·4
22	21 3	568	514	11 18	54	13 25 31·2	17·0 8 12	14·2	18 40	1098	1067	10 40	31	1,0,1,1,2,1,2,2	10	0	82·4
23	21 3	560	498	10 19	62	15 30 32·6	16·0 6 22	16·6	17 8	1094	1061	10 0	33	1,2,1,2,3,3,2,1	15	1	82·4
24	0 38	571	491	9 26	80	13 59 31·0	16·6 6 31	14·4	20 8	1112	1063	1 10	49	3,2,4,3,3,2,3,3	23	1	82·3
25	19 46	572	494	11 19	78	14 3 32·0	18·9 8 30	13·1	18 42	1104	1068	11 25	36	1,2,1,2,2,1,3,2	14	1	82·3
26	1 24	572	494	10 43	78	15 32 29·6	16·9 9 15	12·7	17 15	1102	1061	1 48	41	3,2,2,2,2,3,2,1	17	1	82·3
27	3 0	565	501	11 48	64	12 34 30·3	17·3 7 37	13·0	17 45	1105	1078	10 31	27	2,3,2,3,2,2,2,0	16	1	82·3
28	17 1	569	508	11 40	61	14 14 28·6	17·9 6 39	10·7	17 37	1100	1069	11 14	31	1,0,2,2,3,2,2,2	14	1	82·6
29 d	21 58	603	442	23 35	161	23 32 34·9	11·9 23 2	23·0	17 0	1129	*991*	23 53	138	3,2,2,3,3,4,3,5	25	1	82·6
30	0 11	557	466	11 43	91	13 45 28·2	16·8 1 50	11·4	14 30	1108	995	0 1	113	4,2,2,3,3,2,1,1	18	1	82·7
31	15 39	592	510	6 3	82	12 15 28·8	18·8 7 27	10·0	17 56	1128	1079	11 12	49	1,2,2,1,2,3,2,2	15	1	82·8
Mean	— —	568	489	— —	79	— — 30·7	16·8 — —	13·9	— —	1109	1060	— —	49	1·9	15·0	0·58	82·3

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.

122 ESKDALEMUIR (H) — 16,000γ (0·16 C.G.S. unit) + — JUNE 1944

	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	533	533	530	533	533	527	522	521	518	515	507	507	509	518	531	525	540	551	537	550	550	546	544	544	530
2	541	540	536	533	535	531	527	520	515	504	497	498	517	520	526	524	528	531	542	544	548	542	540	539	528
3 q	540	537	536	532	532	526	522	517	517	518	514	517	525	535	534	532	534	539	542	549	544	541	545	544	532
4	544	540	539	540	537	531	528	524	521	519	517	516	522	526	538	545	545	553	553	558	566	564	563	560	540
5	561	553	550	546	547	545	539	529	521	521	521	532	540	542	541	548	553	545	545	553	550	553	546	548	*543*
6	539	536	533	534	537	534	530	527	526	521	526	530	537	539	537	537	542	550	538	550	548	541	540	540	536
7 q	540	538	540	540	541	539	533	530	526	525	514	521	537	547	554	553	540	544	550	552	553	552	549	546	540
8 q	542	540	540	539	540	539	533	526	525	517	515	517	522	532	546	546	549	544	549	550	550	549	545	548	538
9	548	548	554	555	550	547	545	537	525	511	506	515	522	528	546	550	551	546	550	550	546	547	541	545	540
10 q	540	540	538	538	535	534	532	530	526	517	513	510	506	517	522	542	548	560	557	552	551	545	545	540	535
11	540	537	540	539	539	537	530	521	511	498	498	506	518	527	550	564	541	560	559	546	541	534	534	542	534
12 q	535	534	532	532	533	529	521	517	506	501	499	505	510	515	530	534	539	544	546	548	548	545	542	541	529
13	539	537	538	538	540	537	533	529	525	514	510	516	522	540	549	549	553	569	564	552	555	557	551	545	540
14	542	546	532	536	542	535	529	523	517	508	505	517	534	510	541	537	542	556	560	553	549	551	542	556	536
15 d	526	493	502	542	540	542	542	518	499	514	517	517	503	521	537	535	537	564	565	549	545	554	545	532	531
16	518	518	522	529	533	530	519	499	494	505	506	502	513	526	521	529	544	537	549	553	544	545	544	552	*526*
17	529	529	525	525	526	530	525	514	507	506	506	511	518	525	537	533	544	548	559	557	551	545	549	545	531
18	533	533	530	534	528	527	532	530	517	517	513	513	506	516	522	538	542	547	549	550	548	549	543	541	532
19	537	536	534	533	533	531	525	517	512	505	510	514	519	525	531	529	536	546	553	558	554	548	548	543	532
20	534	540	538	539	541	529	524	516	502	497	504	506	513	518	513	526	542	551	571	564	551	544	548	560	532
21 d	553	544	548	549	536	548	542	514	502	490	505	510	508	509	513	533	550	548	560	566	553	548	542	546	534
22 d	540	531	546	533	553	541	537	520	513	492	511	530	533	530	550	558	554	545	552	554	553	560	561	541	539
23 d	533	530	536	534	535	530	515	481	508	517	513	510	510	517	526	541	545	540	549	546	550	546	553	537	529
24	533	533	531	533	539	537	526	519	510	497	491	501	510	513	530	528	540	539	540	544	545	542	538	540	527
25	537	537	540	538	533	531	529	525	519	506	505	506	511	520	532	540	539	561	564	547	551	548	545	542	534
26 d	537	534	533	537	536	529	522	521	518	506	501	521	524	557	562	576	573	560	557	560	537	522	521	536	537
27	526	533	532	531	534	537	532	526	517	506	491	501	525	530	532	530	550	549	552	554	552	542	539	533	531
28	529	526	524	525	532	529	529	525	519	512	520	515	523	523	532	524	539	545	547	550	548	547	543	540	531
29	553	531	529	536	497	541	536	530	530	516	509	500	505	515	525	545	542	543	547	548	548	543	540	537	531
30	539	536	539	536	540	539	536	524	520	512	505	508	512	520	541	548	541	541	548	551	548	549	548	550	535
Mean	538	535	535	536	536	535	530	521	515	510	*508*	512	519	525	535	540	544	549	552	*552*	549	547	545	544	534

MAGNETIC DECLINATION (WEST)

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

123 ESKDALEMUIR (D) — 12° + — JUNE 1944

	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	22·4	25·0	24·2	21·6	20·4	18·7	17·2	16·4	17·6	20·3	23·6	26·6	28·2	28·0	27·7	26·2	24·6	24·0	22·1	23·2	24·1	24·2	24·1	24·2	23·1
2	24·1	24·0	23·6	23·0	21·0	18·9	17·1	18·0	19·1	20·1	24·8	28·8	30·8	29·7	28·2	26·2	25·4	24·2	23·5	22·9	21·8	23·1	23·5	23·7	23·6
3 q	23·3	23·1	22·6	22·2	21·8	20·8	21·0	20·7	20·8	21·3	23·2	26·3	28·2	28·1	27·8	26·0	24·7	24·3	24·4	24·3	23·4	23·3	23·8	23·6	23·7
4	23·4	23·2	22·8	22·4	20·9	19·7	18·1	17·9	18·7	21·3	23·9	25·1	28·0	28·2	27·4	26·1	25·1	24·3	24·3	24·9	25·4	24·7	20·8	20·0	23·2
5	21·9	21·5	21·8	19·8	19·5	18·8	18·6	19·8	21·0	24·1	26·7	28·7	29·4	30·1	28·0	27·6	27·9	27·8	26·1	25·3	23·5	23·7	24·4	25·0	24·2
6	23·6	24·3	22·1	21·3	20·3	18·1	16·5	16·5	17·6	20·8	25·2	27·9	28·2	28·2	27·6	25·6	24·7	24·6	23·8	24·3	24·8	24·5	24·2	24·2	23·3
7 q	23·9	23·4	22·9	22·3	20·7	19·8	19·6	19·2	18·9	21·3	24·9	28·1	32·7	33·4	32·1	29·3	26·8	25·2	25·3	25·2	24·9	24·1	23·3	23·3	*24·6*
8 q	23·5	23·0	22·3	22·1	21·1	20·8	20·1	20·4	19·9	20·9	23·8	26·6	29·0	28·9	28·3	27·3	27·6	26·4	24·9	24·5	24·4	24·2	24·1	24·1	24·1
9	23·1	22·5	23·3	23·2	20·3	18·6	17·9	17·9	17·8	20·4	23·7	26·7	29·8	30·5	31·4	30·3	27·0	25·4	24·9	23·8	23·4	23·4	22·2	22·6	23·8
10 q	32·1	26·0	22·3	20·5	18·9	19·5	20·2	21·1	21·8	21·5	22·2	24·0	26·4	28·8	27·9	27·8	27·3	26·9	25·1	24·2	23·8	23·5	23·5	22·7	23·7
11	24·0	22·8	21·6	20·4	18·8	18·7	19·1	18·4	19·3	21·4	24·5	27·9	29·7	29·9	30·7	30·5	27·8	25·8	25·3	23·8	23·5	23·3	23·2	23·6	23·9
12 q	22·6	23·9	22·4	23·0	20·8	19·2	19·4	19·7	19·5	21·5	23·3	27·0	29·4	30·3	29·9	28·6	26·4	24·3	23·3	23·3	23·8	23·9	23·7	23·4	23·9
13	22·8	22·4	22·1	21·4	20·2	19·2	19·0	18·6	18·4	18·6	21·2	24·8	28·1	30·6	31·6	30·0	27·8	27·0	26·9	24·9	24·3	24·1	24·0	23·8	23·8
14	23·7	21·3	22·4	19·6	18·9	17·9	17·2	17·4	18·4	22·1	25·0	27·0	29·6	29·3	28·2	28·7	28·0	27·4	26·3	25·2	24·3	24·2	25·2	21·7	23·7
15 d	16·3	16·8	19·9	17·9	14·4	15·9	15·2	17·0	17·2	21·1	23·3	26·0	29·0	29·8	31·0	30·1	29·6	23·8	26·8	26·1	24·6	17·9	17·5	15·2	*21·8*
16	16·9	19·8	22·8	20·6	19·4	17·3	17·4	17·8	20·2	22·5	25·6	28·9	29·9	30·5	29·3	27·8	25·4	24·6	24·0	24·2	24·2	23·8	21·5	20·8	23·1
17	21·8	21·4	20·3	19·9	19·4	18·4	16·2	17·0	18·5	20·1	22·6	25·0	26·5	26·2	26·9	25·4	24·8	24·9	25·1	25·1	25·0	23·5	22·2	17·7	22·2
18	20·9	20·1	20·0	20·4	20·2	19·7	18·9	19·0	19·8	22·8	25·1	26·2	27·4	27·3	27·8	27·5	25·2	23·4	22·8	23·0	23·2	23·3	23·0	22·4	22·9
19	22·3	22·4	22·5	20·7	18·6	18·2	18·0	19·0	19·4	20·5	23·4	26·1	27·9	28·7	29·0	27·0	26·0	25·3	25·3	25·4	24·7	20·8	21·7	21·2	23·1
20	20·7	24·1	22·7	19·9	16·6	14·0	17·2	17·0	17·7	19·9	21·8	26·1	28·9	30·5	30·2	28·8	26·7	25·6	24·8	23·1	21·0	22·6	23·3	19·4	22·6
21 d	19·8	20·9	22·1	20·6	16·6	22·0	18·2	17·4	19·0	20·6	22·8	25·1	27·7	29·7	29·6	27·8	27·0	25·9	25·0	24·2	24·3	23·3	22·1	23·7	23·1
22 d	15·7	17·8	20·6	20·5	25·1	16·4	16·9	15·6	17·0	22·1	24·2	25·2	28·1	29·8	29·7	29·8	19·7	26·2	26·7	25·9	25·1	18·6	19·1	19·9	22·3
23 d	21·5	20·6	23·4	20·2	19·6	17·5	18·6	21·6	21·6	22·0	24·3	26·7	29·4	29·6	29·0	28·2	23·1	25·7	25·6	24·6	24·2	21·5	19·1	21·4	23·3
24	22·3	22·5	25·4	22·7	19·9	18·8	18·4	18·0	18·4	20·1	23·2	25·6	26·2	27·6	29·0	28·4	26·6	25·2	24·1	22·6	23·3	23·7	23·7	23·1	23·3
25	22·6	22·2	22·0	20·8	19·8	18·8	18·5	19·0	18·2	19·7	21·3	23·6	25·8	27·9	28·7	28·2	27·5	27·2	26·2	23·6	24·2	23·5	23·1	22·4	23·1
26 d	21·8	21·5	22·3	16·8	16·2	17·1	16·4	16·9	18·9	20·6	22·9	25·2	28·7	33·3	32·5	33·5	33·2	29·8	28·4	25·8	17·1	20·4	22·2	22·6	23·5
27	19·2	20·2	22·2	23·1	19·6	18·9	18·8	19·5	19·3	19·8	21·3	22·8	24·3	25·9	26·1	26·6	27·2	26·9	25·8	25·0	25·5	24·3	22·2	21·8	22·8
28	20·6	20·6	21·0	20·6	20·4	19·0	18·9	18·8	19·0	21·2	21·3	23·8	25·8	26·3	27·1	26·1	25·8	25·8	25·2	25·1	24·6	24·4	23·6	21·9	22·8
29	19·2	20·2	19·7	18·8	26·5	25·9	20·4	18·7	18·7	18·4	20·1	22·8	26·4	27·9	28·2	27·8	27·5	26·5	25·3	24·4	24·3	22·3	22·7	23·1	23·2
30	23·7	24·3	22·6	20·3	18·5	17·1	16·7	17·3	18·0	19·5	21·5	24·0	25·8	27·5	27·2	27·5	26·5	25·1	24·1	24·2	23·9	23·5	23·5	21·1	22·6
Mean	21·7	22·1	22·2	20·9	19·8	18·8	*18·2*	18·4	19·0	20·9	23·4	25·9	28·2	*29·1*	28·9	28·0	26·4	25·7	25·1	24·4	23·8	23·1	22·7	22·1	23·3

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

124 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — JUNE 1944

	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	1090	1086	1085	1088	1091	1093	1092	1091	1092	1088	1085	1084	1082	1085	1088	1093	1098	1100	1103	1099	1097	1094	1093	1092	1091
2	1091	1091	1091	1092	1094	1096	1094	1091	1088	1080	1080	1079	1080	1085	1087	1093	1097	1098	1098	1098	1097	1094	1093	1092	1091
3 q	1091	1091	1091	1092	1092	1092	1092	1092	1088	1081	1072	1064	1073	1083	1086	1089	1093	1093	1093	1092	1092	1092	1092	1092	1088
4	1092	1092	1092	1092	1094	1097	1093	1092	1091	1081	1069	1067	1069	1074	1079	1084	1089	1093	1096	1093	1091	1090	1088	1086	1087
5	1082	1084	1086	1088	1087	1087	1087	1086	1086	1084	1074	1069	1078	1081	1086	1093	1099	1101	1105	1104	1102	1098	1097	1095	1089
6	1093	1091	1093	1094	1093	1093	1091	1090	1087	1081	1078	1068	1069	1079	1083	1088	1091	1096	1101	1098	1096	1094	1093	1092	1089
7 q	1091	1092	1092	1092	1092	1092	1089	1088	1087	1085	1081	1072	1069	1068	1073	1081	1090	1093	1092	1089	1088	1090	1091	1091	1086
8 q	1091	1091	1092	1093	1093	1092	1091	1087	1085	1081	1078	1075	1074	1074	1078	1084	1090	1094	1096	1092	1091	1089	1088	1088	1087
9	1087	1087	1086	1085	1085	1085	1081	1077	1073	1069	1067	1068	1068	1075	1084	1090	1094	1097	1094	1092	1092	1091	1091	1091	1084
10 q	1091	1085	1085	1089	1091	1090	1087	1087	1085	1080	1074	1070	1073	1075	1077	1082	1087	1093	1096	1095	1093	1090	1088	1086	1085
11	1081	1081	1086	1087	1088	1085	1084	1085	1086	1084	1076	1070	1067	1067	1072	1085	1103	1106	1111	1113	1109	1102	1095	1090	1088
12 q	1085	1084	1087	1091	1091	1092	1091	1088	1087	1080	1078	1074	1075	1078	1082	1088	1092	1097	1097	1094	1092	1090	1089	1090	1087
13	1090	1090	1091	1092	1092	1093	1087	1087	1086	1084	1078	1068	1063	1070	1078	1082	1086	1091	1097	1103	1100	1094	1092	1091	1087
14	1088	1083	1082	1085	1091	1092	1091	1087	1086	1081	1072	1068	1066	1075	1085	1096	1102	1104	1104	1104	1103	1098	1096	1084	1088
15 d	1068	1062	1055	1044	1057	1054	1057	1063	1069	1068	1067	1069	1084	1084	1091	1099	1108	1117	1116	1110	1105	1098	1080	1063	*1079*
16	1063	1068	1078	1082	1087	1091	1091	1089	1086	1079	1078	1076	1079	1083	1087	1085	1089	1093	1097	1098	1098	1096	1091	1075	1085
17	1073	1080	1086	1088	1087	1086	1083	1080	1080	1079	1074	1075	1076	1084	1088	1098	1100	1098	1098	1098	1097	1093	1086	1082	1086
18	1082	1083	1086	1086	1084	1080	1076	1077	1079	1079	1074	1070	1079	1085	1087	1087	1091	1094	1094	1092	1092	1091	1091	1091	1085
19	1091	1090	1088	1091	1093	1097	1092	1091	1087	1081	1083	1085	1086	1086	1086	1091	1094	1094	1093	1091	1091	1094	1091	1088	1090
20	1087	1080	1078	1082	1086	1088	1086	1083	1080	1069	1067	1072	1075	1082	1090	1088	1091	1093	1092	1097	1103	1097	1091	1083	1085
21 d	1084	1087	1085	1083	1082	1074	1075	1079	1075	1073	1069	1072	1078	1081	1082	1089	1097	1103	1102	1102	1104	1102	1097	1091	1086
22 d	1087	1085	1086	1080	1048	1056	1072	1080	1079	1081	1081	1081	1081	1087	1092	1109	1123	1117	1106	1104	1100	1093	1085	1070	1087
23 d	1074	1074	1076	1080	1086	1086	1086	1085	1078	1079	1077	1076	1079	1084	1087	1098	1120	1112	1105	1100	1097	1097	1090	1085	1088
24	1085	1086	1084	1080	1083	1085	1087	1090	1092	1093	1087	1080	1076	1080	1087	1098	1104	1104	1104	1102	1097	1093	1092	1091	1090
25	1092	1092	1092	1096	1097	1097	1094	1089	1091	1090	1082	1080	1081	1082	1081	1086	1092	1094	1098	1102	1097	1093	1091	1091	1091
26 d	1091	1091	1086	1080	1081	1082	1080	1082	1085	1076	1074	1070	1073	1079	1092	1106	1125	1132	1130	1124	1118	1105	1097	1063	*1093*
27	1070	1079	1083	1078	1085	1091	1092	1092	1091	1081	1080	1080	1081	1085	1086	1091	1096	1104	1107	1110	1108	1100	1097	1088	1090
28	1087	1088	1092	1093	1093	1092	1087	1091	1092	1086	1084	1085	1081	1081	1085	1093	1094	1097	1095	1093	1092	1093	1092	1092	1090
29	1080	1074	1078	1079	1073	1044	1057	1069	1073	1080	1075	1073	1074	1082	1088	1091	1097	1098	1098	1097	1095	1097	1094	1093	1082
30	1091	1085	1084	1087	1091	1091	1091	1087	1086	1083	1082	1082	1085	1085	1086	1092	1097	1097	1097	1097	1094	1093	1092	1090	1089
Mean	1085	1084	1085	1086	1086	1086	1085	1085	1084	1081	1077	*1074*	1076	1080	1084	1091	1098	1100	*1101*	1099	1098	1095	1091	1087	1087

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

125 ESKDALEMUIR — JUNE 1944

	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 12° +	Minimum 12° +	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	17 32	565	502	11 24	63	12 22 28·9	15·4 7 31	13·5	18 20	1105	1081	12 36	24	2,0,1,1,2,3,3,0	12	1	82·9
2	19 41	556	491	10 29	65	12 30 31·4	16·0 6 19	15·4	18 41	1099	1077	12 0	22	1,1,1,2,2,1,2,1	11	0	83·0
3 q	20 43	553	511	7 22	*42*	12 55 28·7	20·4 8 40	*8·3*	16 54	1094	1062	11 22	32	0,1,1,1,1,0,1,1	6	0	83·1
4	20 51	607	511	10 51	96	13 1 28·8	16·7 23 0	12·1	18 45	1098	1066	11 23	32	1,0,1,1,1,1,3,3	11	1	83·1
5	17 5	577	513	17 42	64	12 56 30·5	17·0 6 8	13·5	18 31	1106	1067	11 10	39	2,0,1,2,3,4,2,1	15	1	83·4
6	17 40	564	517	15 34	47	13 47 28·9	16·0 7 27	12·9	18 38	1103	1066	12 0	37	2,0,2,2,2,2,2,0	12	0	83·4
7 q	16 0	563	510	10 52	53	12 45 34·2	18·6 8 5	15·6	17 40	1094	1067	15 25	27	0,0,1,1,2,3,2,1	10	0	83·5
8 q	16 40	560	513	10 29	47	13 8 29·6	19·5 8 40	10·1	18 11	1097	1073	12 52	24	0,1,1,0,1,2,1,1	7	0	83·5
9	15 7	569	501	10 44	68	14 12 32·2	16·9 6 53	15·3	17 42	1098	1066	10 25	32	2,2,1,2,3,3,1,2	16	1	83·6
10 q	17 2	567	497	12 34	70	13 33 29·5	18·1 4 16	11·4	19 44	1097	1068	11 26	29	2,2,1,2,2,2,2,1	14	1	83·6
11	15 33	579	494	10 55	85	15 30 31·5	17·9 5 26	13·6	19 29	1115	1067	13 30	48	1,1,1,2,2,3,3,2	15	1	83·5
12 q	19 32	553	494	10 10	59	13 30 30·5	18·6 5 30	11·9	17 45	1097	1073	11 25	24	1,1,0,1,1,1,0,0	5	0	83·5
13	17 45	576	509	10 50	67	14 8 32·3	16·9 8 48	15·4	19 50	1104	1063	12 22	41	0,1,1,1,2,2,2,2	11	1	83·4
14	18 16	568	497	13 12	71	12 19 30·5	16·9 7 22	13·6	17 53	1105	1062	12 20	43	2,1,0,2,3,1,2,3	14	1	83·4
15 d	17 55	597	479	1 25	118	13 57 32·2	12·6 0 59	19·6	17 48	1121	*1032*	3 8	*89*	4,3,2,2,3,4,3,3	24	1	83·3
16	19 33	568	486	7 48	82	13 21 32·3	14·3 0 10	18·0	19 59	1099	1059	0 3	40	3,1,2,2,3,3,3,3	20	1	83·3
17	18 39	568	501	9 41	67	14 43 27·4	15·4 6 59	12·0	16 43	1103	1067	0 1	36	1,1,1,2,2,3,2,2	14	1	83·3
18	16 58	557	499	12 30	58	14 11 28·6	17·9 6 5	10·7	17 23	1096	1068	11 27	28	2,2,2,1,2,2,0,1	12	0	83·3
19	19 23	563	501	9 30	62	14 18 29·5	16·9 6 9	12·6	17 54	1098	1079	9 58	*19*	1,1,1,2,2,1,1,2	11	0	83·3
20	19 0	580	483	9 28	97	13 13 30·6	12·6 5 37	18·0	20 5	1104	1067	10 20	37	2,2,2,3,2,2,3,3	19	1	83·3
21 d	18 57	577	470	8 54	107	14 7 30·6	14·2 4 40	16·4	17 20	1105	1068	10 31	37	3,4,3,3,3,3,2,2	23	1	83·2
22 d	15 23	*611*	482	9 16	*129*	15 23 32·1	*12·4* 0 25	19·7	16 10	1129	1040	4 44	*89*	3,4,2,3,3,5,2,4	26	1	83·2
23 d	16 13	588	*461*	7 25	127	13 0 31·3	16·5 5 52	14·8	16 31	1123	1072	1 30	51	2,1,3,2,3,4,2,2	19	1	83·2
24	20 35	549	486	10 6	63	14 43 29·6	16·9 7 30	12·7	17 38	1105	1073	12 9	32	2,2,2,2,2,1,2,1	14	1	83·2
25	18 33	572	501	11 0	71	14 28 29·2	17·8 8 17	11·4	19 30	1104	1079	12 8	25	1,1,1,1,1,3,2,0	10	0	83·2
26 d	14 7	605	494	10 9	111	14 6 *37·1*	14·5 2 26	*22·6*	17 20	*1137*	1055	23 30	82	1,2,2,3,4,4,4,4	24	1	83·2
27	20 25	568	478	10 58	90	17 43 28·0	17·7 6 56	10·3	20 8	1111	1062	0 1	49	3,3,1,3,2,3,3,2	20	1	83·3
28	19 13	556	504	11 28	52	14 12 27·8	17·4 7 10	10·4	17 20	1098	1079	12 50	*19*	1,1,1,2,2,2,1,2	12	0	83·3
29	0 20	576	481	4 43	95	5 0 33·2	17·2 3 30	16·0	17 30	1099	1038	5 28	61	3,4,2,2,2,3,1,1	18	1	83·3
30	23 27	559	497	10 12	62	15 9 28·7	14·4 6 45	14·3	19 10	1098	1079	2 20	*19*	2,1,2,2,2,2,1,2	14	1	83·4
Mean	- -	572	495	- -	77	- - 30·5	16·5 - -	14·0	- -	1105	1066	- -	39	1·9	14·6	0·67	83·3

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.

126 ESKDALEMUIR (H) — 16,000 (0·16 C.G.S. unit) + — JULY 1944

	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	537	529	524	533	534	532	525	520	517	508	501	512	523	536	532	543	536	553	558	557	549	549	547	544	533
2	538	536	534	533	540	538	532	525	528	529	523	513	512	524	536	540	544	543	547	556	554	549	549	558	537
3	542	544	543	542	539	538	532	532	525	505	512	510	528	530	539	539	547	543	549	547	547	556	555	546	537
4	545	536	532	532	532	536	532	524	517	508	505	518	532	544	550	549	544	547	549	552	544	548	547	546	536
5	540	536	536	536	544	536	528	520	516	513	514	519	525	532	541	549	548	541	549	554	553	548	548	548	536
6	546	545	541	542	541	544	541	532	524	510	508	509	508	512	533	542	546	554	552	559	558	559	568	551	*539*
7	536	548	548	539	535	534	533	525	521	512	509	507	516	525	523	540	550	555	556	552	543	539	539	539	534
8	539	537	536	536	533	528	525	517	514	509	509	510	512	516	525	536	544	552	557	559	549	548	549	555	533
9 d	560	567	550	556	538	548	544	528	501	481	491	497	514	529	528	530	546	549	548	547	540	539	536	533	533
10	534	532	531	526	527	527	528	520	513	505	497	501	509	532	540	538	536	554	555	557	563	533	534	532	530
11	529	530	527	528	524	516	522	524	521	505	499	507	509	516	528	530	539	545	552	551	545	539	540	540	528
12	536	536	536	537	536	533	536	532	528	516	508	510	516	525	536	540	552	544	552	552	557	552	552	563	537
13	552	543	536	536	536	536	528	525	521	512	506	505	520	530	545	532	532	550	555	548	552	547	549	545	535
14	542	537	537	536	534	532	524	518	513	500	505	509	517	524	532	533	548	556	554	553	551	552	548	545	533
15 d	536	536	536	534	534	525	507	512	512	509	501	498	500	512	520	525	528	532	538	543	543	543	540	538	*525*
16	533	533	532	534	534	531	520	524	519	515	507	507	513	519	539	544	539	543	550	562	550	542	543	542	532
17	538	540	534	528	536	526	523	515	514	504	496	488	504	517	523	526	531	543	539	544	537	538	536	536	526
18	535	529	531	531	528	523	516	515	516	511	510	508	504	519	530	535	538	549	547	548	539	539	540	532	528
19 d	531	516	523	532	529	522	522	523	521	508	509	511	500	511	530	542	542	540	547	551	554	547	546	545	529
20 d	538	534	530	545	543	542	535	530	520	496	491	498	497	495	511	528	535	535	540	543	539	540	540	538	527
21 d	537	540	540	539	539	540	529	523	515	500	496	495	492	507	523	538	548	551	543	543	548	543	537	528	529
22	527	528	528	534	531	523	515	508	500	508	504	499	508	514	529	539	546	550	555	543	548	547	540	532	527
23	535	529	530	534	535	530	522	516	505	509	518	517	523	523	528	520	536	543	549	546	542	538	538	535	529
24 q	535	534	532	534	535	533	523	515	512	512	509	506	509	519	525	532	539	542	543	547	547	543	538	538	529
25 q	536	531	531	531	532	529	525	524	520	515	512	506	508	515	523	531	539	540	545	546	546	546	545	543	530
26 q	541	541	543	541	543	536	531	525	516	503	492	492	501	509	526	534	531	542	546	548	550	543	540	540	530
27 q	537	537	537	538	539	535	530	527	523	519	513	513	522	520	531	528	536	547	551	557	554	548	539	535	534
28 q	535	533	534	532	531	530	526	524	523	513	510	512	511	515	517	523	538	548	555	558	558	556	549	535	532
29	534	532	535	535	535	532	530	527	523	511	506	508	511	523	528	535	538	539	546	547	551	544	540	534	531
30	532	524	527	535	533	535	531	523	519	519	519	515	523	524	527	524	523	539	550	550	547	539	542	540	531
31	538	535	533	536	538	546	538	531	517	509	512	523	516	525	531	531	539	539	547	552	547	538	539	531	533
Mean	538	536	534	536	535	533	527	523	517	509	*506*	507	512	521	530	535	540	545	549	*551*	549	545	544	541	532

MAGNETIC DECLINATION (WEST)

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

127 ESKDALEMUIR (D) — 12° + — JULY 1944

	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	21·4	19·7	23·3	19·5	17·6	17·2	18·0	18·7	18·8	18·8	21·2	25·1	27·8	29·6	28·9	26·1	24·2	25·3	26·0	25·1	24·1	22·6	23·1	22·1	22·7
2	22·0	23·3	24·1	24·6	22·4	20·8	19·7	16·8	16·3	18·2	22·6	25·4	27·7	28·2	28·9	27·9	26·9	25·2	24·8	24·7	24·0	23·6	23·3	22·5	23·5
3	21·8	22·4	21·6	22·0	20·3	19·2	19·0	18·0	17·9	22·0	24·4	28·4	30·3	31·8	29·6	26·6	25·7	24·2	23·3	23·3	22·4	23·6	23·6	21·7	23·5
4	21·1	19·9	20·3	20·7	20·6	17·9	17·8	18·2	18·8	21·1	24·3	26·9	29·0	29·5	28·2	26·9	25·7	25·3	25·0	23·7	22·5	23·3	23·3	23·3	23·1
5	23·5	25·3	24·1	21·7	20·0	16·2	15·9	17·0	19·0	21·5	24·3	27·1	28·5	30·2	31·6	30·0	28·2	26·0	23·1	23·1	23·0	22·6	23·0	22·8	23·7
6	22·7	21·8	22·0	21·5	20·6	18·8	17·7	18·4	18·2	19·7	22·5	27·0	30·5	31·6	31·8	29·5	26·1	24·0	23·0	22·5	22·8	22·9	25·1	20·3	23·4
7	21·8	23·4	22·7	17·7	15·0	15·0	14·4	14·3	15·3	18·7	21·3	24·8	28·7	32·2	30·8	28·9	26·2	24·4	24·1	23·4	22·7	21·6	21·9	22·0	22·1
8	21·8	21·7	21·5	21·4	19·6	17·8	16·8	16·1	16·2	19·0	22·5	25·1	27·4	29·2	29·2	27·8	26·8	25·2	23·1	23·0	23·1	23·1	23·3	23·3	22·7
9 d	23·3	27·3	20·6	20·7	21·4	21·6	16·7	15·5	16·2	20·4	23·4	26·9	28·7	31·3	31·0	29·4	27·1	26·1	25·1	24·1	23·0	22·4	21·5	20·1	23·5
10	19·7	21·5	21·6	22·1	20·6	19·7	18·0	17·5	17·7	19·6	22·9	26·3	28·7	30·7	32·6	32·3	28·7	28·4	26·1	25·1	21·3	22·2	22·4	22·3	*23·7*
11	21·6	21·5	23·2	21·4	19·8	21·5	20·8	20·8	19·7	19·7	22·7	25·2	27·5	28·5	28·7	27·8	26·4	25·2	24·2	23·5	23·3	23·2	23·2	22·4	23·4
12	22·0	21·4	21·3	21·1	19·2	18·1	17·1	17·0	16·9	18·1	20·8	23·3	25·8	27·0	27·2	26·8	27·4	25·9	25·8	25·6	25·3	24·2	23·1	23·2	22·7
13	23·3	20·5	19·4	19·2	18·9	18·0	18·1	19·7	19·7	21·1	22·0	23·7	25·6	27·0	28·2	26·9	26·2	26·1	25·1	23·9	23·9	23·5	23·5	22·0	22·7
14	21·8	21·6	21·2	20·0	18·8	17·9	17·9	19·8	19·7	20·4	23·4	22·8	25·7	27·5	28·1	27·7	26·7	25·9	25·1	24·8	24·2	24·2	22·5	21·4	22·9
15 d	19·1	21·3	23·5	22·5	19·8	17·4	19·9	22·4	21·5	21·4	23·8	27·3	29·9	30·0	27·8	26·7	25·8	23·8	22·8	21·7	21·3	22·8	23·2	22·4	23·3
16	21·5	21·0	21·3	20·0	18·4	16·1	16·4	17·8	17·9	21·1	23·9	26·8	29·0	29·6	28·7	28·7	28·0	26·6	21·4	22·7	20·0	21·6	23·2	23·2	22·7
17	22·2	21·8	21·5	23·3	24·8	23·8	20·6	18·7	17·6	19·7	23·3	26·0	28·0	29·9	29·5	27·4	26·0	25·1	23·4	22·4	22·8	22·5	22·0	22·1	23·5
18	23·5	23·1	23·0	21·0	20·0	18·8	17·9	17·9	18·8	20·0	22·6	26·0	28·2	28·9	29·2	27·3	26·1	25·1	23·9	20·6	23·2	23·1	22·5	23·3	23·1
19 d	16·5	15·3	29·6	20·1	19·2	20·0	20·4	19·8	19·6	20·3	20·9	25·4	29·3	30·4	28·4	28·1	26·0	24·2	24·2	24·4	24·7	23·9	23·3	26·2	22·9
20 d	21·5	20·1	22·5	22·3	18·1	17·8	16·3	18·8	22·1	22·5	24·1	27·7	30·1	31·5	30·2	26·7	25·0	23·9	23·2	22·8	21·6	21·6	23·3	22·5	23·2
21 d	22·4	21·7	20·6	19·8	20·0	18·4	18·7	20·4	20·6	23·0	25·2	26·7	27·4	26·7	27·4	27·2	25·1	24·1	23·3	22·0	23·3	21·0	21·4	23·2	22·9
22	21·6	23·6	20·6	19·9	18·8	17·4	17·3	17·3	18·3	20·4	22·6	23·9	26·1	27·3	26·9	25·6	24·5	23·3	21·4	24·2	24·8	24·3	23·2	21·9	22·3
23	22·4	21·3	20·1	19·7	19·6	18·4	18·3	19·5	20·0	22·5	24·3	25·8	27·7	27·8	27·4	26·1	25·0	25·2	24·9	24·0	22·9	22·5	23·2	22·6	23·0
24 q	22·7	21·6	21·4	20·6	19·7	18·6	17·3	17·4	16·7	18·6	21·1	23·5	25·2	26·2	26·0	25·8	25·2	24·4	23·8	24·2	24·6	23·8	23·3	22·5	22·3
25 q	22·0	21·1	21·4	21·6	22·9	21·5	19·7	18·5	18·5	19·7	22·3	24·6	26·5	27·9	28·1	28·2	27·0	25·9	24·6	23·4	23·3	22·5	22·5	22·0	23·2
26 q	21·5	21·7	21·1	20·7	19·7	18·8	17·6	17·0	16·4	17·1	19·7	22·9	25·0	26·8	27·8	27·7	26·9	26·4	25·3	24·3	24·0	22·4	21·6	21·9	22·3
27 q	21·2	21·0	20·8	20·8	20·1	18·7	17·9	17·7	18·8	19·7	22·2	24·6	26·6	27·5	28·9	28·3	27·6	26·8	25·7	25·0	24·3	22·9	20·8	20·9	22·9
28 q	20·3	19·9	20·5	20·5	20·5	19·8	18·9	18·9	19·6	21·0	22·4	24·9	27·1	27·0	26·9	26·6	26·0	26·1	25·8	25·5	24·4	22·2	18·6	19·9	22·6
29	20·9	20·1	20·6	20·8	20·0	18·7	18·5	18·7	18·4	20·2	22·5	25·8	28·2	28·6	26·9	26·0	25·1	24·3	23·5	23·1	21·5	20·0	19·5	20·0	22·2
30	19·2	18·8	19·9	21·6	19·8	17·9	17·0	17·4	18·6	19·8	22·0	24·6	26·3	26·6	27·0	26·2	24·9	24·3	23·8	23·6	21·9	21·0	21·4	20·9	*21·9*
31	20·8	22·1	24·8	22·0	17·6	17·6	17·9	17·7	18·3	20·2	22·6	25·8	27·8	28·4	27·1	26·1	25·0	23·3	23·3	23·3	21·8	21·5	21·4	19·2	22·3
Mean	21·5	21·5	21·6	21·0	19·8	18·7	*18·0*	18·2	18·5	20·2	22·7	25·5	27·7	*28·9*	28·7	27·5	26·2	25·2	24·1	23·7	23·1	22·7	22·5	22·1	22·9

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

128 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — JULY 1944

	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	1086	1085	1081	1084	1089	1091	1092	1091	1083	1085	1084	1079	1075	1075	1082	1087	1096	1097	1093	1093	1093	1091	1087	1087	1087
2	1087	1086	1085	1081	1075	1075	1076	1077	1079	1074	1073	1068	1074	1077	1080	1087	1091	1092	1093	1093	1093	1092	1091	1082	1083
3	1085	1086	1087	1087	1091	1087	1086	1082	1081	1079	1071	1067	1067	1075	1086	1096	1097	1097	1096	1097	1097	1092	1089	1088	1086
4	1087	1087	1091	1091	1090	1087	1082	1081	1084	1086	1080	1074	1075	1079	1080	1084	1089	1086	1087	1090	1091	1091	1089	1088	1085
5	1088	1086	1081	1081	1081	1085	1085	1083	1081	1079	1080	1079	1079	1079	1078	1086	1097	1099	1100	1100	1095	1091	1088	1087	1086
6	1087	1087	1087	1087	1087	1085	1085	1085	1086	1084	1075	1068	1076	1081	1081	1087	1094	1097	1097	1093	1092	1091	1074	1073	1085
7	1075	1073	1055	1051	1062	1073	1078	1080	1080	1079	1075	1075	1079	1081	1083	1085	1093	1103	1102	1099	1093	1092	1088	1088	1081
8	1087	1087	1088	1091	1091	1087	1085	1085	1081	1074	1063	1052	1057	1068	1074	1079	1090	1093	1096	1093	1091	1090	1087	1086	1082
9 d	1085	1073	1073	1076	1075	1070	1070	1072	1078	1075	1074	1076	1076	1079	1091	1102	1104	1105	1100	1098	1098	1096	1093	1091	1085
10	1084	1080	1075	1076	1085	1086	1092	1092	1091	1088	1084	1075	1069	1077	1081	1088	1097	1101	1103	1100	1096	1093	1092	1092	1087
11	1091	1091	1087	1086	1088	1091	1091	1087	1085	1085	1084	1080	1079	1080	1085	1091	1091	1093	1092	1094	1093	1091	1089	1088	*1088*
12	1088	1088	1088	1090	1092	1091	1086	1085	1086	1084	1078	1067	1069	1075	1075	1079	1082	1090	1091	1091	1088	1086	1087	1079	1084
13	1068	1073	1081	1085	1087	1086	1086	1087	1091	1086	1084	1081	1079	1076	1078	1085	1087	1091	1096	1096	1091	1091	1090	1088	1085
14	1087	1086	1086	1088	1091	1091	1088	1087	1087	1079	1073	1074	1073	1075	1079	1082	1089	1089	1092	1091	1091	1087	1087	1087	1085
15 d	1087	1086	1083	1081	1082	1086	1085	1080	1080	1074	1075	1075	1080	1086	1085	1085	1091	1097	1098	1097	1096	1091	1091	1091	1086
16	1086	1084	1083	1082	1084	1082	1082	1082	1082	1076	1074	1074	1071	1075	1082	1086	1094	1099	1100	1098	1094	1090	1087	1086	1085
17	1087	1086	1087	1084	1069	1058	1057	1063	1065	1066	1070	1074	1075	1075	1081	1089	1096	1099	1096	1094	1089	1088	1087	1086	1080
18	1083	1081	1082	1083	1087	1087	1087	1086	1084	1076	1075	1071	1069	1074	1079	1078	1084	1087	1097	1101	1093	1088	1086	1075	1083
19 d	1069	1070	1074	1078	1083	1084	1082	1082	1081	1077	1069	1066	1070	1072	1074	1080	1087	1088	1087	1084	1083	1087	1087	1076	1079
20 d	1080	1082	1081	1072	1075	1076	1073	1071	1076	1077	1073	1071	1073	1084	1087	1088	1094	1094	1090	1090	1093	1092	1088	1088	1082
21 d	1088	1088	1088	1087	1087	1084	1083	1081	1078	1077	1073	1074	1080	1084	1087	1087	1091	1099	1101	1105	1099	1090	1083	1082	1087
22	1086	1085	1088	1089	1093	1093	1089	1087	1088	1081	1075	1073	1075	1078	1086	1090	1097	1098	1104	1099	1092	1088	1087	1087	1088
23	1084	1087	1088	1088	1089	1089	1087	1085	1087	1082	1081	1081	1082	1086	1089	1090	1094	1094	1094	1093	1090	1089	1087	1086	1088
24 q	1087	1087	1088	1088	1089	1089	1088	1086	1081	1076	1077	1077	1081	1086	1089	1091	1091	1089	1089	1089	1088	1088	1088	1088	1086
25 q	1087	1087	1087	1087	1085	1083	1083	1087	1088	1084	1077	1077	1079	1079	1081	1083	1087	1089	1089	1090	1088	1085	1084	1084	1085
26 q	1084	1083	1082	1082	1083	1085	1086	1086	1081	1071	1070	1071	1067	1072	1076	1080	1087	1086	1083	1082	1082	1085	1086	1083	1081
27 q	1083	1083	1083	1083	1086	1087	1086	1083	1080	1077	1075	1075	1072	1076	1080	1082	1087	1087	1086	1083	1086	1084	1087	1086	1082
28 q	1083	1083	1082	1083	1086	1087	1087	1088	1088	1081	1069	1066	1070	1073	1077	1077	1079	1081	1081	1081	1081	1083	1083	1082	1080
29	1082	1082	1082	1081	1083	1085	1087	1086	1083	1073	1068	1059	1058	1063	1071	1075	1081	1084	1085	1085	1087	1085	1082	1078	1079
30	1077	1080	1081	1079	1081	1083	1082	1080	1081	1074	1065	1065	1065	1066	1076	1082	1087	1087	1088	1088	1088	1087	1083	1081	1079
31	1077	1078	1076	1072	1077	1077	1075	1075	1074	1072	1066	1064	1070	1074	1076	1082	1087	1086	1083	1082	1086	1087	1083	1080	*1077*
Mean	1084	1083	1083	1082	1084	1084	1083	1083	1082	1078	1075	*1072*	1073	1077	1081	1085	1091	1093	*1093*	1093	1091	1089	1087	1085	1084

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

129 ESKDALEMUIR — JULY 1944

	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					Declincation				Vertical force						
	Maximum 16,000γ +		Minimum 16,000γ +		Range	Maximum 12° +		Minimum 12° +		Range	Maximum 44,000γ +		Minimum 44,000γ +		Range				
	h. m.	γ	h. m.	γ	γ	h. m.	′	h. m.	′	′	h. m.	γ	h. m.	γ	γ				°A
1	19 54	567	10 43	499	68	13 25	30·4	17·1	5 49	13·3	17 0	1098	12 40	1073	25	3,1,1,1,3,3,2,1	15	1	83·4
2	23 22	568	12 8	499	69	14 34	29·6	15·5	7 43	14·1	18 52	1095	11 23	1067	28	2,2,2,2,2,2,2,2	16	1	83·4
3	21 21	560	10 9	497	63	13 19	32·5	16·9	7 42	15·6	16 40	1099	12 12	1064	35	1,1,2,2,2,2,2,2	14	1	83·6
4	19 30	580	10 22	502	78	13 5	30·3	17·3	6 0	13·0	20 20	1093	11 20	1073	20	2,1,1,2,1,2,3,1	13	0	83·6
5	20 0	559	11 6	509	50	14 8	32·4	14·6	6 5	17·8	18 28	1102	13 10	1076	26	2,2,1,1,2,3,2,0	13	0	83·6
6	22 15	583	13 2	504	79	14 25	32·2	16·2	6 29	16·0	17 50	1098	11 20	1067	31	1,1,1,1,2,2,2,3	13	1	83·5
7	2 5) 18 37)	563	12 3	501	62	13 46	32·7	*14·1*	7 24	*18·6*	17 40	1104	*1048*	3 2	*56*	3,2,1,1,2,2,2,1	14	1	83·6
8	18 8	571	11 11	505	66	14 0	29·8	15·7	7 10	14·1	18 40	1098	11 42	1050	48	1,1,1,1,1,1,2,2	10	0	83·6
9 d	1 25	576	*470*	9 19	*106*	13 30	32·3	14·2	7 30	18·1	17 30	*1106*	5 54	1063	43	3,3,3,3,3,3,2,2	22	1	83·6
10	20 13	*598*	10 42	493	105	14 50	*33·9*	16·9	7 35	17·0	18 22	1104	12 11	1068	36	2,1,1,1,2,3,4,1	15	1	83·6
11	18 45	556	10 30	495	61	14 0	28·9	18·7	9 5	10·2	19 6	1096	12 12	1076	20	2,2,2,1,1,0,1,1	10	0	83·6
12	23 18	567	10 23	505	62	14 28	27·9	16·2	6 5) 8 53)	11·7	5 10	1093	11 41	1064	29	1,1,1,1,1,2,1,2	10	1	83·5
13	0 1	566	11 10	497	69	14 6	28·9	17·0	6 18	11·9	19 10	1098	0 20	1067	31	2,1,1,1,2,2,1,1	11	0	83·5
14	17 40	576	11 19	485	91	14 37	28·9	16·9	6 22	12·0	18 16	1093	12 33	1069	24	1,0,2,3,2,3,2,2	15	1	83·5
15 d	19 7	556	12 29	485	71	13 18	31·4	16·1	5 39	15·3	18 52	1099	9 38	1072	27	3,2,3,2,3,2,2,2	19	1	83·5
16	18 58	582	11 10	500	82	13 57	30·4	15·1	5 32	15·3	18 9	1101	12 9	1069	32	1,1,2,1,2,2,3,2	14	1	83·6
17	19 29	550	11 26	484	66	13 46	30·6	16·0	8 0	14·6	17 22	1099	6 25	1057	42	1,2,2,2,2,1,2,1	13	1	83·6
18	19 17	565	12 21	499	66	13 57	29·7	17·0	5 36	12·7	19 34	1104	23 56	1068	36	1,1,2,1,1,1,2,3	12	1	83·6
19 d	16 46	562	12 49	481	81	13 16	32·2	14·4	1 12	17·8	17 30	1089	11 30	1064	25	2,2,2,2,3,2,2,1	16	1	83·6
20 d	19 50	550	13 45	476	74	13 30	32·1	14·3	6 32	17·8	16 48	1095	7 9	1070	25	2,2,3,2,3,1,1,1	15	1	83·6
21 d	17 56	574	10 42) 12 30)	484	90	12 55	28·5	16·0	8 56	12·5	19 30	*1106*	11 0	1069	37	1,2,2,2,2,2,2,2	15	1	83·6
22	18 12	571	8 45	490	81	13 28	27·8	16·2	5 40	11·6	18 32	1105	11 51	1071	34	2,1,1,2,2,2,2,2	14	1	83·6
23	18 12	551	8 50	500	51	13 8	28·1	17·1	6 11	11·0	17 25	1095	10 40	1080	15	2,1,1,2,2,2,1,1	12	0	83·6
24 q	19 32	551	11 43	504	*47*	13 17	26·4	16·3	7 58	*10·1*	15 50	1093	9 50	1075	18	0,0,1,1,1,1,1,1	6	0	83·6
25 q	18 18	547	11 40	500	*47*	15 8	28·7	18·0	8 25	10·7	19 13	1091	10 33	1077	*14*	1,2,1,1,1,1,0,0	7	0	83·6
26 q	20 53	555	11 35	480	75	14 29	28·1	15·9	8 29	12·2	16 10	1087	12 14	1064	23	0,1,1,2,2,2,1,1	10	0	83·7
27 q	19 54	564	10 55	508	56	14 36	29·2	17·3	6 46	11·9	16 40	1089	12 33	1071	18	0,0,1,1,2,2,2,2	10	0	83·7
28 q	19 22	570	10 47	504	66	13 3	27·7	17·0	22 45	10·7	7 50	1089	11 37	1064	25	1,1,1,1,2,2,2,3	13	0	83·7
29	20 54	566	10 48	500	66	13 20	28·7	17·8	8 19	10·9	20 15	1088	12 3	1057	31	2,1,1,1,1,2,2,2	12	0	83·7
30	20 2	553	11 37	506	*47*	14 12	27·9	16·9	6 23	11·0	21 17	1089	10 30	1064	25	2,1,1,2,2,2,1,1	12	1	83·7
31	19 42	558	12 9	500	58	12 35	29·2	16·8	5 3	12·4	21 10	1089	11 49	1063	26	2,2,1,2,2,1,2,2	14	1	83·8
Mean	- -	565	- -	496	69	- -	29·9	16·3	- -	13·6	- -	1096	- -	1067	29	1·6	13·1	0·61	83·6

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.

130 ESKDALEMUIR (H) — 16,000γ (0·16 C.G.S. unit) + — AUGUST 1944

	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	532	536	533	539	542	535	536	521	511	507	504	500	498	523	520	531	537	543	543	545	543	539	535	535	529
2 d	532	531	535	535	536	529	531	530	528	518	512	515	521	529	530	539	547	559	570	574	562	532	532	497	*534*
3 d	493	539	477	562	528	527	460	460	476	448	456	468	489	511	519	523	520	523	524	531	530	528	522	508	*505*
4	516	508	509	518	519	519	516	512	507	496	495	493	499	500	513	523	527	529	524	527	527	533	525	526	515
5	525	523	520	519	523	521	518	510	499	487	491	502	505	514	526	541	534	537	532	537	538	537	527	530	521
6	527	526	515	514	526	526	520	508	514	488	487	490	502	515	526	534	533	523	533	539	540	541	544	537	521
7	538	533	528	534	530	523	519	512	505	500	499	499	499	514	519	542	533	537	542	546	543	543	542	539	526
8	535	534	534	530	528	526	524	517	507	496	496	501	510	531	534	531	522	534	543	561	555	539	537	538	528
9	530	533	526	526	522	518	518	516	514	512	510	503	502	509	526	545	546	537	548	543	541	543	540	538	527
10	543	537	539	539	539	532	509	510	525	515	503	503	499	514	518	516	522	537	539	543	540	538	539	551	527
11	542	535	530	530	523	522	516	511	510	510	511	516	523	524	532	541	538	545	535	543	540	538	542	556	530
12	534	528	516	518	530	530	524	522	510	506	507	505	514	504	522	531	536	537	541	543	538	537	542	547	526
13	531	523	529	525	526	519	512	510	507	517	518	518	527	526	525	527	525	523	530	534	536	532	531	531	524
14	530	530	530	530	528	526	522	518	511	508	510	517	534	534	537	536	541	534	541	557	549	555	543	547	532
15	538	539	534	527	534	530	526	522	520	514	504	507	510	515	521	526	530	534	538	535	537	534	538	534	527
16	534	531	530	534	534	531	530	525	514	496	496	503	518	526	535	521	536	538	541	539	545	547	548	561	530
17	545	528	514	537	530	528	523	518	512	504	503	506	513	514	526	534	540	538	542	546	545	550	548	549	529
18 d	547	542	541	542	539	542	550	538	479	503	490	503	503	503	517	517	522	518	531	534	534	537	536	537	525
19	514	537	514	522	526	522	526	523	506	496	488	493	495	502	514	522	534	537	538	534	534	534	537	534	520
20 q	541	532	523	527	527	526	526	519	510	503	502	506	506	520	521	527	533	534	536	535	533	538	535	531	525
21 q	530	530	530	531	527	533	530	526	516	506	496	494	504	514	520	526	532	537	543	541	533	538	541	538	526
22	536	541	535	530	526	534	535	533	523	512	514	508	507	515	522	526	529	534	545	543	543	545	534	538	529
23	536	554	536	546	546	551	538	534	518	503	500	500	507	517	522	518	518	527	535	536	530	535	537	538	528
24	538	539	550	553	545	530	538	546	530	502	492	507	517	503	501	498	524	524	526	528	530	534	528	532	526
25 q	533	527	523	523	527	530	527	522	514	499	494	498	505	513	519	523	518	526	537	534	532	530	530	530	521
26 q	530	527	527	527	526	526	522	519	514	510	507	505	510	516	530	530	530	530	543	541	546	548	557	533	527
27	534	530	528	527	526	522	516	508	507	499	498	499	504	510	517	530	535	531	541	551	542	536	538	538	524
28 d	538	534	534	532	534	523	495	526	519	507	507	504	507	499	510	521	519	523	534	535	554	535	522	522	522
29 q	525	529	518	519	518	514	512	510	507	507	510	518	526	527	519	523	522	534	534	537	541	538	538	538	523
30	549	537	521	523	518	525	521	517	511	506	506	516	517	517	522	525	532	536	542	539	542	537	536	536	526
31 d	537	549	528	521	516	534	529	510	491	509	510	494	513	518	526	529	533	521	530	546	534	537	540	529	524
Mean	533	533	526	530	529	527	522	518	510	503	*501*	503	509	515	522	528	531	533	538	*541*	540	538	537	535	525

MAGNETIC DECLINATION (WEST)

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

131 ESKDALEMUIR (D) — 12° + — AUGUST 1944

	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	20·4	19·9	20·2	17·5	17·8	18·1	18·9	20·0	21·1	21·5	22·5	26·0	27·7	27·0	26·9	25·8	24·6	24·4	23·7	23·7	23·2	22·8	22·4	21·8	22·4
2 d	22·0	22·0	21·6	20·1	19·3	18·5	20·0	19·0	18·9	19·8	21·7	25·3	27·6	28·1	27·4	25·9	25·1	24·4	26·5	24·4	21·5	17·9	13·8	12·1	21·8
3 d	13·5	7·1	15·9	22·3	9·1	12·5	16·9	22·0	26·3	22·4	25·2	27·8	30·7	28·1	26·0	24·2	23·6	23·4	23·0	20·9	21·6	19·6	19·7	21·3	*21·0*
4	19·9	21·1	20·9	20·1	18·4	17·6	17·3	17·0	17·4	18·7	21·2	24·4	27·3	27·9	25·7	24·3	23·8	22·9	22·3	22·8	22·3	21·4	21·4	21·7	21·6
5	22·9	23·1	21·7	20·7	20·9	19·1	17·7	17·0	17·6	20·4	22·9	25·8	28·6	29·6	28·8	27·8	26·0	25·0	24·4	23·1	21·7	14·9	21·2	20·7	22·6
6	19·7	20·5	20·0	22·1	20·0	17·0	16·8	17·0	18·1	21·7	23·6	26·0	26·9	28·6	27·2	25·9	25·1	24·1	23·3	23·3	23·0	22·2	21·3	21·3	22·3
7	21·7	20·1	22·0	21·5	20·4	18·9	18·6	18·0	17·6	20·2	22·2	25·0	26·8	28·7	28·6	27·2	26·3	25·4	24·3	24·0	23·6	23·2	22·4	19·7	22·8
8	20·7	20·8	21·0	20·6	19·7	17·5	17·9	18·7	20·1	19·9	21·6	23·4	26·9	30·1	30·3	29·6	26·8	26·2	24·8	17·9	19·5	22·3	22·2	21·7	22·5
9	20·7	22·4	19·9	20·1	18·8	18·6	18·3	17·7	17·6	18·0	20·3	23·3	26·7	27·8	28·1	28·2	27·5	24·3	25·0	24·2	23·3	22·4	22·3	22·1	22·4
10	22·1	20·4	20·3	19·7	18·6	18·4	20·3	21·9	22·0	22·4	22·5	24·5	26·1	27·7	29·4	29·0	28·5	27·3	25·8	25·0	23·9	22·5	21·7	21·0	23·4
11	20·0	19·1	25·4	21·5	17·3	16·9	16·8	18·7	19·0	19·3	19·8	22·5	24·3	25·2	25·1	24·6	24·8	25·0	23·2	22·4	20·8	20·4	21·6	27·1	21·7
12	21·3	17·0	20·4	20·3	16·5	17·0	18·0	20·7	19·8	21·6	22·0	24·2	26·7	26·8	26·3	27·4	26·7	25·2	24·9	24·8	23·6	23·4	23·2	22·3	22·5
13	18·5	20·7	20·7	18·9	18·6	17·9	18·8	19·8	21·6	22·4	22·7	24·9	26·1	26·0	24·9	23·1	22·4	22·6	23·3	22·0	20·8	22·9	22·5	22·3	21·9
14	21·4	20·9	21·3	19·7	19·4	18·1	18·0	18·0	18·8	20·5	23·6	25·8	27·8	27·8	26·9	25·2	24·1	22·7	23·3	24·2	20·8	21·2	22·2	21·3	22·2
15	20·1	20·4	18·8	18·5	19·1	16·7	17·0	18·1	19·6	22·3	25·2	28·3	30·0	29·0	27·3	25·3	24·1	23·2	22·9	22·8	22·2	21·8	21·6	21·9	22·3
16	21·5	20·7	20·5	20·9	19·2	18·5	17·6	17·2	17·4	19·9	22·7	25·2	28·6	28·8	29·2	27·0	24·4	23·3	22·8	23·1	23·5	23·2	22·8	18·8	22·4
17	17·9	17·1	23·6	19·8	17·8	17·8	17·7	17·6	18·1	21·2	22·9	25·4	27·4	27·8	26·9	25·6	23·7	22·5	22·9	22·7	22·3	22·7	22·1	22·1	21·9
18 d	23·4	26·5	21·0	19·7	17·1	15·2	16·6	19·8	21·3	29·5	29·2	30·7	30·8	28·7	26·6	25·4	24·2	20·6	16·1	21·6	23·3	22·5	20·8	18·8	22·9
19	19·5	21·7	22·4	23·3	22·0	22·3	17·5	17·8	17·9	20·7	23·6	27·8	29·8	29·8	28·9	26·9	25·0	23·2	22·2	22·0	22·4	22·1	21·7	21·5	23·0
20 q	20·7	17·0	17·7	19·5	19·4	19·6	18·8	18·0	18·6	18·9	20·9	23·8	25·8	26·1	26·0	25·2	24·3	23·3	22·0	21·7	21·5	20·9	20·7	21·2	21·3
21 q	21·1	21·5	22·5	20·6	20·0	19·0	18·0	18·0	17·6	19·7	22·5	25·4	28·2	29·2	28·6	26·5	24·3	23·3	22·9	20·5	20·6	21·6	21·6	21·6	22·3
22	21·6	22·0	19·7	19·1	21·3	19·8	18·6	18·2	18·7	20·3	23·7	26·0	28·5	28·9	27·5	25·9	24·6	23·6	22·5	22·5	22·5	21·7	16·4	18·8	22·2
23	23·3	23·7	17·0	17·1	16·3	16·0	17·1	19·7	20·5	23·7	25·2	28·7	29·8	28·6	27·7	25·6	25·5	25·5	23·3	22·4	21·1	21·6	21·6	22·1	22·6
24	21·3	21·2	22·0	17·9	17·4	18·3	18·9	19·7	20·8	21·7	25·3	28·8	31·2	36·3	34·3	29·6	26·0	24·3	22·5	22·5	21·8	20·9	19·4	19·3	*23·4*
25 q	20·4	20·6	20·5	22·5	21·0	19·3	18·0	17·0	17·1	17·7	19·7	24·2	27·7	28·9	27·8	26·1	24·2	22·8	21·8	21·6	21·7	21·5	21·4	21·3	21·9
26 q	21·0	20·9	20·8	20·6	20·1	19·6	18·8	18·4	17·9	19·0	22·4	25·1	26·5	26·9	26·6	25·1	24·2	23·8	23·8	20·8	19·8	22·0	15·9	16·0	21·5
27	21·2	19·4	19·6	19·5	19·3	19·5	16·4	16·2	16·9	19·4	21·9	25·1	27·5	27·8	26·4	24·2	22·6	22·0	23·0	22·7	19·9	21·9	22·3	21·0	21·5
28 d	18·6	19·4	19·4	18·0	17·4	16·1	27·1	34·4	24·4	20·6	22·5	27·8	31·1	29·7	27·7	26·2	24·9	22·3	22·4	16·9	14·3	16·6	20·8	20·7	22·5
29 q	21·4	20·7	19·9	20·0	19·1	18·0	17·9	18·0	18·6	21·2	24·2	26·4	27·0	26·4	24·8	23·0	21·4	20·6	22·9	23·5	23·3	22·7	22·4	20·6	21·8
30	22·5	16·6	17·0	19·6	17·2	18·1	17·7	19·7	19·9	22·8	25·9	27·9	28·1	27·8	25·0	23·2	23·1	23·8	22·4	21·7	23·7	23·0	22·9	22·2	22·2
31 d	23·2	22·4	19·4	15·9	20·9	20·5	17·9	16·7	20·5	21·6	24·6	28·3	30·6	30·0	28·1	25·9	23·3	18·8	22·4	19·1	20·6	22·3	23·8	20·2	22·4
Mean	20·8	20·2	20·4	19·9	18·7	*18·1*	18·3	19·0	19·4	20·9	23·0	25·9	28·0	*28·4*	27·5	26·0	24·7	23·5	23·1	22·3	21·7	21·5	21·2	20·8	22·2

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

132 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — AUGUST 1944

	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	1082	1082	1081	1079	1077	1077	1077	1076	1076	1069	1068	1063	1065	1071	1076	1081	1082	1083	1083	1084	1087	1087	1087	1087	1078
2 d	1086	1085	1083	1082	1081	1080	1075	1076	1075	1073	1068	1062	1062	1066	1075	1080	1083	1084	1087	1093	1092	1045	1034	1017	1073
3 d	943	950	866	871	914	971	1003	1021	1028	1061	1074	1081	1089	1092	1101	1103	1101	1100	1094	1095	1094	1093	1087	1076	*1038*
4	1065	1064	1075	1083	1088	1089	1089	1090	1092	1090	1088	1083	1082	1086	1091	1092	1093	1094	1093	1090	1090	1089	1089	1088	1086
5	1086	1082	1083	1087	1087	1087	1085	1087	1088	1083	1081	1078	1082	1087	1089	1090	1093	1095	1093	1090	1094	1094	1089	1087	*1087*
6	1084	1084	1085	1081	1081	1088	1087	1084	1083	1084	1077	1070	1064	1071	1076	1089	1097	1097	1094	1092	1089	1087	1084	1081	1084
7	1081	1082	1082	1081	1085	1089	1089	1088	1084	1078	1077	1077	1076	1076	1083	1090	1093	1090	1088	1087	1087	1087	1083	1083	1084
8	1083	1083	1084	1087	1088	1088	1083	1082	1076	1072	1075	1072	1071	1073	1081	1087	1093	1094	1096	1100	1089	1083	1084	1083	1084
9	1085	1078	1071	1076	1081	1084	1083	1083	1082	1081	1076	1075	1080	1083	1081	1084	1089	1094	1093	1092	1089	1088	1088	1086	1083
10	1080	1080	1083	1083	1084	1087	1084	1077	1070	1069	1072	1071	1071	1074	1080	1086	1092	1093	1093	1090	1089	1089	1088	1080	1082
11	1071	1066	1059	1052	1069	1077	1081	1078	1080	1078	1080	1076	1071	1074	1081	1083	1086	1089	1093	1092	1090	1089	1083	1069	1078
12	1057	1070	1064	1034	1047	1056	1059	1063	1066	1065	1063	1058	1059	1069	1078	1081	1083	1089	1088	1087	1088	1087	1083	1069	1069
13	1068	1061	1065	1076	1079	1079	1078	1077	1078	1076	1077	1077	1074	1078	1083	1086	1089	1087	1087	1089	1091	1088	1088	1088	1080
14	1088	1088	1087	1087	1088	1088	1087	1085	1081	1069	1062	1053	1053	1065	1075	1077	1082	1083	1082	1081	1086	1082	1082	1083	1079
15	1083	1082	1083	1086	1081	1082	1079	1077	1077	1076	1075	1073	1076	1083	1087	1089	1089	1088	1088	1091	1089	1089	1089	1088	1083
16	1088	1088	1087	1084	1083	1082	1081	1081	1081	1079	1064	1058	1066	1075	1083	1088	1093	1092	1087	1087	1086	1087	1087	1077	1082
17	1074	1074	1074	1069	1080	1082	1086	1087	1087	1080	1080	1081	1077	1080	1084	1089	1089	1088	1083	1083	1086	1086	1087	1086	1082
18 d	1082	1071	1074	1078	1083	1082	1075	1072	1080	1065	1069	1072	1077	1087	1094	1098	1096	1101	1111	1100	1091	1090	1089	1088	1084
19	1083	1059	1066	1075	1072	1071	1076	1078	1081	1080	1077	1075	1074	1081	1089	1094	1094	1095	1093	1089	1088	1088	1088	1088	1081
20 q	1081	1075	1080	1082	1087	1088	1088	1087	1086	1081	1079	1076	1078	1084	1087	1088	1091	1093	1092	1089	1088	1085	1083	1083	1085
21 q	1084	1084	1083	1082	1083	1083	1083	1082	1083	1077	1074	1071	1070	1072	1077	1083	1088	1090	1089	1091	1091	1088	1087	1085	1083
22	1084	1083	1082	1086	1087	1083	1084	1083	1083	1083	1081	1075	1075	1078	1086	1087	1088	1087	1087	1087	1086	1087	1088	1082	1084
23	1076	1047	1060	1069	1076	1077	1077	1075	1077	1075	1068	1066	1070	1078	1092	1101	1111	1114	1114	1112	1110	1099	1093	1089	1084
24	1089	1088	1080	1070	1071	1075	1075	1075	1076	1077	1069	1062	1068	1077	1093	1106	1107	1101	1095	1090	1089	1089	1090	1089	1083
25 q	1087	1087	1088	1088	1088	1089	1090	1089	1088	1081	1075	1071	1071	1074	1082	1090	1095	1097	1096	1094	1092	1089	1089	1088	1087
26 q	1088	1088	1088	1087	1088	1088	1090	1090	1088	1083	1077	1075	1071	1074	1077	1082	1091	1092	1088	1089	1088	1084	1079	1080	1084
27	1073	1076	1081	1083	1086	1085	1087	1087	1087	1082	1080	1075	1075	1077	1083	1087	1088	1090	1088	1088	1093	1093	1088	1087	1084
28 d	1083	1083	1078	1080	1083	1086	1082	1058	1062	1064	1064	1066	1071	1077	1084	1094	1102	1105	1099	1100	1089	1081	1081	1083	1081
29 q	1083	1082	1084	1087	1088	1088	1088	1077	1084	1077	1071	1069	1069	1072	1080	1087	1090	1091	1088	1087	1087	1088	1088	1087	1083
30	1075	1070	1072	1071	1070	1070	1072	1076	1076	1074	1063	1063	1070	1077	1081	1087	1088	1087	1089	1093	1088	1092	1089	1087	1078
31 d	1080	1066	1058	1057	1060	1064	1073	1075	1076	1072	1071	1066	1066	1075	1081	1087	1100	1116	1101	1093	1088	1089	1077	1075	1078
Mean	1076	1073	*1071*	1071	1075	1078	1079	1078	1078	1076	1073	1071	1072	1077	1083	1089	1092	*1093*	1092	1091	1090	1087	1085	1081	1080

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

133 ESKDALEMUIR — AUGUST 1944

	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 12° +		Minimum 12° +		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	18 12	551	475	12 31	76	12 13	29·4	16·3	4 23	13·1	21 9	1088	1062	11 31	26	2,2,1,1,3,1,1,0	11	1	83·7
2 d	18 57	*612*	453	23 58	159	13 39	30·5	7·4	23 6	23·1	20 5	1096	976	24 0	120	1,1,2,2,3,4,4,5	22	2	83·8
3 d	3 2	582	*394*	2 20	*188*	12 40	32·1	*-1·9*	1 40	*34·0*	15 10	1106	*807*	2 42	*299*	5,5,3,3,3,2,3,3	27	2	83·8
4	21 15	539	484	11 22	55	13 7	28·7	16·1	7 46	12·6	17 18	1095	1063	1 30	32	3,1,1,1,2,2,1,1	12	0	83·9
5	21 16	558	481	9 50	77	13 33	30·4	11·5	21 12	18·9	17 30	1096	1077	11 30	*19*	1,1,0,2,2,3,2,3	14	1	83·9
6	22 15	550	484	11 39	67	13 20	30·3	16·0	6 16	14·3	17 12	1099	1063	12 40	36	2,2,1,1,2,3,2,1	14	0	83·9
7	19 19	553	488	12 9	65	14 4	29·6	17·1	7 42	12·5	16 50	1094	1074	13 0	20	2,1,1,2,2,2,1,2	13	1	84·0
8	19 43	585	488	10 8	97	13 51	31·4	15·1	19 30	16·3	19 15	1103	1069	12 35	34	1,1,1,2,2,3,3,1	14	1	84·3
9	16 35	557	491	11 51	66	14 27	28·7	16·9	8 50	11·8	17 40	1095	1071	2 23	24	2,1,2,2,2,3,2,1	15	1	84·3
10	23 9	561	492	7 19	69	14 14	30·9	17·6	5 20	13·3	16 20	1094	1065	9 35	29	2,2,3,2,3,3,2,2	19	1	84·3
11	23 45	571	506	7 58	65	23 29	32·3	15·9	5 58	16·4	19 45	1094	1048	3 3	46	3,2,2,1,2,2,2,4	18	1	84·3
12	23 2	568	488	13 40	80	15 22	28·0	15·2	4 6	12·8	18 8	1091	1027	3 32	64	3,3,2,2,3,3,1,3	20	1	84·4
13	20 8	542	503	8 1	*39*	12 47	26·7	17·7	5 31	*9·0*	20 0	1093	1058	2 0	35	2,1,2,2,2,2,2,1	14	0	84·3
14	21 20	585	503	10 22	82	13 10	28·8	16·9	20 39	11·9	21 2	1093	1051	11 58	42	1,1,1,2,3,2,3,3	16	1	84·3
15	17 11) 18 40)	542	499	10 39	43	12 25	31·0	15·3	6 44	15·7	19 21	1093	1071	11 10	22	2,1,2,1,2,2,1,1	12	0	84·3
16	23 8	570	491	10 7	79	12 55	30·2	16·9	7 3	13·3	16 45	1094	1057	11 23	37	1,1,0,2,2,2,2,3	13	1	84·3
17	19 57	554	492	9 28	62	13 10	28·7	15·9	1 37	12·8	15 52	1090	1064	3 12	26	3,2,1,2,1,2,2,1	14	0	84·3
18 d	7 9	561	453	8 50	108	10 2	32·4	14·2	5 51	18·2	18 20	1113	1063	9 43	50	2,1,4,3,2,2,3,2	19	1	84·4
19	1 30	550	486	10 28	64	12 49	30·4	16·6	6 46	13·8	17 10	1096	1054	1 42	42	3,2,2,1,1,1,1,1	12	1	84·4
20 q	21 39	554	499	12 48	55	14 3	26·9	14·3	1 45	12·6	17 30	1094	1072	1 20	22	3,2,1,1,2,1,1,2	13	0	84·4
21 q	19 23	549	490	11 12	59	13 27	29·5	17·0	8 18	12·5	20 20	1094	1069	12 30	25	2,1,1,1,0,1,2,1	9	0	84·4
22	21 39	551	503	11 49	48	12 57	29·3	16·1	22 18	13·2	16 43	1089	1070	11 9	*19*	2,2,1,1,0,1,0,2	9	0	84·4
23	5 7	561	496	11 4	65	0 58	31·3	15·1	5 25	16·2	18 8	1117	1045	1 41	72	4,2,2,1,2,1,2,2	16	1	84·4
24	3 1	566	481	14 4	85	13 59	37·9	16·1	3 40	21·8	16 0	1112	1059	11 19	53	3,3,3,2,3,3,1,1	19	1	84·4
25 q	18 25	541	491	10 40	50	13 10	29·5	16·3	7 52	13·2	18 3	1099	1069	11 40	30	1,1,0,0,1,2,1,0	6	0	84·4
26 q	22 29	573	503	11 30	70	12 55	27·7	13·6	23 15	14·1	16 50	1093	1069	12 50	24	1,1,1,1,1,2,2,3	12	0	84·4
27	18 52	568	495	11 16	73	13 7	28·4	15·3	6 39	13·1	21 10	1095	1071	0 23	24	2,1,1,0,1,2,3,2	12	0	84·4
28 d	20 21	566	467	12 16	99	7 9	*39·0*	10·8	20 53	28·2	16 50	1106	1053	7 33	53	2,2,4,3,4,3,3,3	24	1	84·4
29 q	17 36	547	503	10 28	44	12 55	27·8	17·2	7 22	10·6	17 5	1094	1065	11 46	29	1,1,1,2,2,2,1,1	11	0	84·4
30	18 8	561	498	10 49	63	13 12	28·9	13·8	1 56	15·1	19 8	1095	1059	11 12	36	3,2,2,2,2,2,3,2	18	1	84·4
31 d	19 33	564	474	11 17	90	13 2	31·8	13·5	3 42	18·3	17 12	*1120*	1056	3 18	64	3,3,3,3,2,3,3,3	23	1	84·4
Mean	- -	561	485	- -	76	- -	30·2	14·7	- -	15·6	- -	1098	1051	- -	47	1·9	15·2	0·68	84·2

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.

134 ESKDALEMUIR (H) — 16,000γ (0·16 C.G.S. unit) + — SEPTEMBER 1944

	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	518	502	517	533	529	529	525	522	513	505	498	502	506	514	514	515	525	533	537	533	532	533	535	552	522
2 d	575	502	518	511	524	521	483	491	493	494	494	478	513	526	516	516	521	548	529	529	526	533	553	526	517
3	530	521	514	518	521	521	513	495	498	502	493	506	523	526	526	531	518	525	530	531	530	529	529	532	519
4	532	528	530	522	522	525	522	517	511	502	498	505	517	527	533	533	538	537	546	529	528	522	506	525	523
5	537	533	522	525	530	522	523	518	506	493	490	494	499	513	521	525	529	533	530	529	529	530	533	530	521
6	534	531	529	529	529	528	526	520	511	503	504	517	525	528	533	541	549	553	541	545	546	547	541	531	531
7	533	533	533	533	529	529	536	533	518	491	482	491	502	516	522	522	532	533	536	537	537	533	531	529	524
8	529	529	529	533	530	530	529	526	516	502	489	487	496	504	501	509	526	531	536	533	529	526	518	526	519
9 q	537	526	525	526	518	521	525	518	511	503	499	496	503	509	516	518	521	526	533	539	540	536	541	531	522
10	533	526	529	527	526	528	530	518	507	503	501	502	513	516	519	521	533	539	543	546	533	534	530	531	525
11	540	539	531	529	529	527	522	522	522	513	509	513	517	524	529	526	529	533	536	540	541	553	539	552	530
12	535	531	529	529	537	537	525	525	513	509	495	497	506	522	530	532	531	525	527	530	533	538	531	542	525
13	531	533	529	530	531	531	529	525	517	516	513	515	517	522	533	533	536	534	538	538	547	544	539	541	530
14	533	524	535	537	526	553	537	521	515	513	511	511	516	525	510	526	526	516	524	535	538	539	538	534	527
15 q	540	536	533	535	533	536	530	525	513	499	502	517	521	522	524	525	526	529	536	537	536	538	540	538	528
16 q	535	534	533	533	529	530	525	513	514	505	505	509	521	527	525	514	522	531	538	538	535	532	531	533	525
17 q	531	532	532	532	530	533	533	530	526	516	506	505	511	523	532	544	545	535	542	545	546	542	542	547	532
18	544	538	544	530	527	524	540	523	513	506	507	509	514	515	514	523	526	533	537	529	525	528	533	529	525
19 q	529	529	531	532	530	533	533	526	517	516	511	510	513	522	520	528	533	536	539	538	537	536	537	537	528
20	537	534	534	536	534	537	536	533	528	517	512	513	516	522	525	526	537	548	540	550	554	544	529	522	*532*
21 d	528	535	512	526	530	528	529	510	515	506	530	495	498	509	513	515	525	526	526	532	527	533	532	531	521
22	534	533	524	520	522	527	528	527	526	518	509	504	506	507	514	526	522	529	529	537	538	521	516	535	523
23	517	517	513	507	522	533	533	522	522	514	506	509	509	513	514	522	529	542	553	558	547	539	498	481	522
24 d	522	533	503	513	509	517	513	514	491	479	505	509	505	493	478	515	522	525	533	516	521	528	560	521	*514*
25	514	513	524	525	515	516	521	520	515	506	503	502	513	521	513	522	523	529	525	525	521	520	534	537	519
26	545	525	520	525	528	528	520	513	506	501	496	497	505	517	520	514	525	529	529	533	533	535	530	529	521
27 d	527	527	526	529	525	521	526	525	506	506	502	498	500	509	521	529	534	515	515	516	517	529	528	523	519
28	522	521	518	521	526	533	525	525	509	503	502	503	507	518	518	524	520	523	524	528	529	534	533	529	521
29	527	526	526	529	532	534	526	528	531	509	498	495	497	508	508	525	529	531	532	529	522	541	529	529	523
30 d	529	534	532	529	531	534	537	533	525	521	519	518	514	502	513	509	497	522	532	560	498	506	521	561	524
Mean	533	527	526	527	527	529	526	521	514	506	*503*	504	510	517	519	524	528	532	534	*535*	533	533	532	532	524

MAGNETIC DECLINATION (WEST)

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

135 ESKDALEMUIR (D) — 12° + — SEPTEMBER 1944

	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	17·1	22·8	18·5	16·9	17·6	17·6	17·7	18·2	17·5	20·2	22·2	25·2	28·4	26·2	25·1	23·5	22·2	21·4	21·0	21·6	22·0	20·2	21·2	20·4	21·0
2 d	16·1	15·6	14·8	16·3	15·4	19·6	24·2	23·3	20·6	23·1	25·4	28·5	30·3	30·4	29·2	27·3	23·4	17·9	17·4	17·9	20·6	18·8	19·1	15·0	21·3
3	16·8	19·8	19·7	19·8	19·6	18·8	18·5	17·9	18·8	21·3	25·3	26·6	29·6	29·9	27·9	26·4	23·8	22·8	22·1	21·9	20·9	21·1	21·3	21·0	22·1
4	20·6	19·5	20·6	18·7	19·5	18·7	18·0	17·8	17·7	19·7	22·2	24·5	26·5	28·0	26·4	25·2	24·2	23·4	23·5	20·6	15·4	11·5	13·7	16·7	20·5
5	18·8	14·5	18·5	18·7	18·8	17·4	18·4	17·0	17·0	19·0	21·5	24·9	26·2	26·7	25·9	24·3	22·4	21·7	21·7	21·9	21·5	20·8	20·6	19·1	20·7
6	21·2	21·2	20·7	20·6	20·4	20·0	19·2	19·2	19·3	21·4	23·7	27·3	29·3	28·9	27·4	26·5	26·0	25·1	24·9	24·4	23·5	22·5	20·6	18·8	*23·0*
7	20·5	20·6	20·6	19·7	19·0	20·2	20·4	18·5	19·7	21·3	23·3	25·2	27·7	27·9	26·7	24·6	22·9	21·7	21·7	21·7	21·6	21·5	21·4	20·9	22·1
8	20·6	20·6	20·4	20·5	19·6	19·2	18·8	18·1	18·7	20·7	22·6	25·7	28·7	30·5	29·8	28·7	26·3	24·2	23·1	21·3	15·7	14·8	15·9	20·8	21·9
9 q	23·3	21·0	20·1	19·7	19·6	20·0	18·8	17·9	17·9	18·9	21·8	24·6	27·0	27·9	27·0	25·4	23·7	22·4	21·9	21·5	19·5	22·1	20·6	20·5	21·8
10	20·0	19·0	19·8	18·9	17·6	18·1	18·7	18·8	18·0	18·8	20·2	23·8	25·5	26·9	26·7	25·0	23·8	23·9	23·3	22·8	22·2	22·1	19·8	20·1	21·4
11	20·6	20·0	20·5	19·9	19·8	19·0	18·1	18·2	18·8	19·9	23·1	25·5	27·3	27·3	26·3	24·3	23·5	23·0	22·2	22·4	21·9	17·1	18·6	21·0	21·6
12	18·5	19·5	21·4	18·7	17·9	18·3	17·9	18·6	19·7	21·5	23·3	26·1	28·6	27·1	26·2	24·4	22·5	22·2	21·5	20·7	21·3	19·1	20·7	22·5	21·6
13	21·1	20·2	20·1	20·5	20·7	20·6	19·5	18·8	18·6	19·5	21·7	24·3	26·0	26·0	25·2	23·5	23·1	20·8	22·5	23·2	23·1	21·6	15·0	17·0	21·4
14	17·8	18·5	24·2	16·7	18·8	18·0	18·7	17·9	18·5	19·6	21·6	23·5	25·8	27·4	26·9	24·8	24·5	24·2	23·4	24·1	23·2	22·3	21·3	20·5	21·8
15 q	18·5	19·9	18·9	19·6	20·8	20·4	20·3	19·8	19·7	21·3	23·3	25·9	26·1	25·9	24·5	22·4	21·3	21·6	22·1	21·7	21·4	21·7	21·3	21·5	21·7
16 q	21·3	21·1	20·8	18·8	20·0	18·4	18·5	19·0	19·2	20·5	22·4	24·4	26·0	26·2	25·3	23·5	22·3	21·6	21·4	21·7	21·1	21·5	21·6	21·1	21·6
17 q	20·6	20·3	20·0	19·4	19·7	19·6	18·8	18·1	18·4	19·7	22·0	23·9	24·4	25·9	25·3	25·1	24·8	23·8	23·1	22·3	22·1	21·8	20·7	20·8	21·7
18	18·6	21·2	15·9	17·8	17·8	20·3	22·4	20·3	19·9	20·9	22·3	24·0	25·6	26·0	25·1	23·7	23·2	22·3	21·7	20·3	19·5	20·1	19·6	18·9	21·1
19 q	20·0	19·4	20·5	20·2	20·5	20·3	18·9	17·6	17·4	19·0	20·6	22·5	23·9	25·3	25·1	24·3	23·2	22·4	22·1	21·8	21·5	21·1	20·7	20·6	21·2
20	20·1	20·5	20·5	20·3	20·2	19·8	18·8	17·9	17·8	18·8	22·4	25·7	27·9	28·8	28·3	26·2	24·7	25·0	25·5	24·2	24·1	21·8	18·9	10·1	22·0
21 d	16·8	12·2	25·1	16·3	15·8	16·8	16·2	18·4	18·8	21·3	20·9	23·4	26·1	27·1	26·9	25·2	23·5	23·4	23·2	20·8	21·2	20·7	20·6	20·8	20·9
22	21·2	19·7	18·1	19·0	19·7	20·5	20·2	20·0	18·4	17·6	19·1	22·1	25·3	26·2	26·4	26·2	25·1	23·9	24·1	14·5	18·8	14·6	9·2	10·2	20·0
23	12·0	14·7	19·2	23·1	21·6	20·4	19·6	18·2	18·3	18·9	20·9	23·2	26·3	27·4	26·5	25·5	23·9	23·7	24·0	23·9	23·8	16·1	9·8	15·2	20·7
24 d	16·8	15·9	17·1	14·4	18·5	17·9	17·6	17·4	18·5	19·0	21·7	23·9	28·4	27·4	24·2	24·1	23·5	22·6	22·0	19·3	19·0	16·7	16·1	16·7	*19·9*
25	19·1	23·7	22·3	20·9	20·0	20·5	19·6	18·5	18·6	19·1	21·5	24·9	25·9	26·4	25·7	24·1	23·5	22·5	21·5	14·3	18·3	17·4	21·0	20·8	21·3
26	24·7	22·6	18·5	18·9	18·7	19·4	19·6	18·7	18·2	19·9	21·9	25·6	26·4	27·2	27·9	26·7	24·3	22·5	21·8	21·6	21·0	14·6	16·4	20·7	21·6
27 d	20·7	20·9	20·8	20·5	18·9	18·9	19·0	18·0	18·0	18·7	20·9	25·6	27·8	27·1	26·0	24·4	23·4	21·5	18·8	18·1	15·2	15·8	19·9	20·7	20·8
28	21·4	20·3	20·4	21·9	19·8	18·5	18·0	17·2	17·6	18·5	20·3	23·8	25·6	25·8	25·0	23·1	22·0	21·2	19·7	21·4	20·5	19·7	20·2	20·4	20·9
29	20·0	21·3	20·4	20·3	22·4	20·9	18·8	17·6	17·3	18·2	19·8	22·0	24·3	26·3	25·7	24·5	23·3	22·0	22·0	22·0	17·7	15·1	20·0	20·3	20·9
30 d	19·8	19·8	19·3	19·6	19·7	19·8	19·7	18·0	17·4	18·0	19·1	23·8	25·5	28·3	33·4	18·6	26·2	25·3	23·8	4·8	18·4	19·9	17·8	13·4	20·4
Mean	19·5	19·5	19·9	19·2	19·3	19·3	19·1	18·5	*18·5*	19·8	21·9	24·7	26·7	*27·3*	26·6	24·7	23·7	22·7	22·2	20·6	20·5	19·1	18·8	18·9	21·3

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

136 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — SEPTEMBER 1944

	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	1063	1048	1056	1070	1077	1081	1082	1082	1082	1074	1072	1065	1069	1078	1087	1087	1089	1090	1089	1087	1087	1088	1087	1078	1078
2 d	1057	1046	1049	1045	1046	1045	1046	1056	1070	1069	1066	1075	1078	1082	1083	1093	1100	1105	1107	1104	1092	1089	1069	1065	*1072*
3	1059	1050	1063	1076	1082	1084	1087	1088	1087	1082	1076	1070	1065	1070	1078	1086	1089	1087	1087	1086	1087	1088	1088	1088	1079
4	1088	1086	1083	1083	1083	1084	1087	1086	1083	1080	1077	1076	1075	1080	1085	1087	1088	1088	1092	1095	1101	1094	1080	1059	1084
5	1047	1054	1069	1077	1081	1082	1083	1083	1082	1076	1075	1076	1077	1082	1088	1093	1093	1090	1088	1087	1087	1087	1086	1087	1080
6	1085	1083	1083	1085	1087	1087	1088	1086	1086	1085	1078	1069	1069	1075	1086	1088	1088	1088	1086	1083	1083	1084	1087	1090	1084
7	1088	1087	1087	1087	1087	1086	1082	1081	1081	1081	1081	1069	1070	1076	1083	1089	1094	1095	1094	1092	1089	1088	1088	1087	1085
8	1087	1087	1087	1084	1086	1087	1088	1088	1087	1083	1083	1083	1081	1086	1093	1094	1094	1094	1090	1093	1098	1096	1093	1088	1089
9 q	1072	1074	1083	1086	1088	1088	1088	1087	1087	1083	1078	1075	1074	1078	1083	1087	1092	1090	1090	1089	1089	1088	1087	1088	1084
10	1088	1088	1087	1087	1087	1087	1087	1087	1087	1084	1079	1071	1071	1080	1087	1089	1087	1085	1086	1087	1093	1094	1095	1094	1086
11	1088	1082	1079	1082	1084	1087	1088	1086	1083	1081	1078	1075	1075	1078	1087	1093	1093	1093	1091	1088	1088	1087	1080	1064	1084
12	1069	1076	1076	1071	1075	1077	1081	1081	1078	1076	1071	1069	1070	1076	1083	1090	1095	1093	1090	1093	1092	1087	1087	1081	1081
13	1078	1080	1082	1083	1084	1086	1088	1088	1087	1079	1074	1070	1071	1077	1081	1086	1087	1093	1089	1087	1086	1087	1086	1076	1083
14	1075	1077	1071	1070	1075	1073	1078	1082	1083	1080	1075	1071	1069	1070	1079	1091	1094	1102	1099	1093	1090	1089	1089	1089	1082
15 q	1087	1087	1087	1086	1082	1081	1083	1083	1083	1081	1074	1072	1075	1078	1083	1083	1081	1081	1082	1083	1084	1083	1086	1087	1082
16 q	1086	1087	1087	1084	1079	1078	1081	1082	1080	1077	1077	1075	1077	1079	1086	1092	1090	1089	1087	1087	1087	1087	1087	1088	1084
17 q	1087	1087	1087	1085	1084	1083	1084	1083	1082	1078	1081	1081	1083	1086	1087	1085	1083	1083	1083	1082	1081	1084	1086	1086	1084
18	1083	1081	1064	1069	1074	1077	1074	1078	1081	1081	1081	1082	1081	1087	1093	1094	1094	1090	1089	1090	1093	1090	1089	1089	1083
19 q	1088	1087	1087	1086	1085	1083	1083	1083	1084	1081	1072	1074	1077	1081	1083	1086	1087	1087	1084	1084	1085	1087	1086	1084	1083
20	1084	1085	1086	1085	1086	1083	1083	1083	1083	1080	1074	1069	1069	1075	1079	1081	1086	1087	1086	1085	1083	1087	1088	1077	1082
21 d	1082	1078	1041	1033	1063	1072	1076	1077	1076	1074	1079	1076	1078	1081	1087	1088	1094	1095	1094	1094	1093	1092	1093	1087	1079
22	1081	1075	1078	1078	1079	1081	1082	1083	1084	1081	1075	1069	1070	1076	1081	1087	1092	1094	1094	1099	1086	1089	1080	1054	1081
23	1057	1064	1072	1077	1077	1081	1083	1089	1090	1082	1075	1069	1071	1080	1081	1086	1087	1087	1084	1083	1087	1106	1100	1078	1081
24 d	1054	1017	1048	1068	1075	1082	1087	1088	1085	1088	1081	1078	1081	1092	1104	1100	1096	1096	1095	1102	1102	1094	1066	1068	1081
25	1074	1071	1066	1074	1081	1083	1085	1087	1084	1081	1078	1077	1076	1079	1088	1093	1093	1090	1095	1104	1098	1090	1081	1067	1083
26	1051	1048	1071	1080	1083	1083	1087	1088	1090	1086	1081	1077	1076	1080	1087	1093	1090	1093	1090	1090	1092	1092	1088	1086	1083
27 d	1086	1087	1087	1084	1081	1083	1084	1087	1089	1083	1081	1079	1082	1083	1086	1087	1090	1105	1117	1112	1107	1087	1080	1087	1089
28	1088	1089	1088	1084	1086	1086	1089	1092	1090	1088	1087	1084	1087	1087	1092	1094	1095	1094	1095	1094	1094	1093	1088	1088	1090
29	1088	1088	1088	1087	1081	1076	1082	1084	1082	1083	1086	1085	1082	1082	1086	1088	1090	1093	1094	1094	1097	1093	1089	1090	1087
30 d	1089	1089	1088	1087	1087	1086	1084	1087	1089	1083	1078	1075	1077	1087	1106	1155	1138	1108	1104	1129	1098	1101	1095	1056	*1095*
Mean	1077	1075	1076	1078	1080	1081	1083	1084	1084	1081	1077	*1075*	1075	1080	1086	1091	1092	1092	1092	*1093*	1091	1090	1086	1080	1083

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

137 ESKDALEMUIR — SEPTEMBER 1944

	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 12° +	Minimum 12° +	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	23 36	584	478	11 0	106	12 10 29·7	14·3	0 39 15·4	17 44	1092	1042	1 47	50	3,1,2,3,3,2,1,3	18	1	84·4
2 d	0 39	604	463	11 26	141	11 52 31·5	12·5	0 12 19·0	18 10	1111	1044	1 0	67	5,3,3,3,3,3,3,3	26	1	84·4
3	0 33	544	478	10 33	66	12 55 31·4	16·2	0 1 15·2	16 13	1092	1047	1 40	45	2,1,2,3,2,2,1,1	14	1	84·3
4	18 7	553	490	10 43	63	13 6 29·7	10·7	21 2 19·0	20 33	1105	1051	24 0	54	2,1,1,2,2,2,3,3	16	1	84·4
5	1 3	556	484	10 28	72	12 59 27·3	11·6	0 58 15·7	16 30	1094	1044	0 41	50	3,1,1,2,1,2,0,1	11	0	84·4
6	17 27	572	501	11 0	71	12 51 30·5	17·9	22 44 12·6	23 20	1091	1067	12 20	24	1,0,0,2,1,3,2,2	11	0	84·4
7	18 23) 20 33)	541	472	11 0	69	12 50 28·5	17·2	7 38 11·3	17 13	1096	1068	11 40	28	1,2,2,2,1,1,1,0	10	1	84·4
8	21 20	544	482	10 55	62	13 52 31·6	10·8	20 57 20·8	20 49	1102	1081	12 30	21	1,1,1,2,2,2,3,4	16	1	84·4
9 q	20 16	553	493	10 54	60	13 10 28·7	16·4	20 8 12·3	16 44	1093	1069	0 50	24	2,1,0,1,1,1,2,2	10	0	84·4
10	21 18	552	497	10 31	55	13 51 28·2	16·9	4 50 11·3	23 48	1095	1068	11 53	27	1,2,2,1,2,2,2,2	14	0	84·3
11	21 45	584	502	11 0	82	11 59 29·6	14·5	21 15 15·1	0 1	1095	1063	23 42	32	2,2,2,2,3,2,1,4	18	1	84·3
12	23 31	558	471	10 50	87	12 10 29·5	17·1	0 36 12·4	16 33	1096	1064	0 1	32	2,1,2,3,2,2,2,3	17	1	84·3
13	22 0	559	505	11 39	54	12 13 26·8	13·3	22 54 13·5	17 50	1094	1069	11 50	25	2,0,0,2,2,3,2,3	14	1	84·3
14	5 32	556	493	14 38	63	13 49 29·6	15·3	3 32 14·3	17 46	1104	1065	2 51	39	3,3,2,2,3,3,2,1	19	1	84·3
15 q	21 13	541	494	9 40	47	12 40 27·5	18·0	0 21 *9·5*	0 21	1089	1069	11 10	20	1,1,1,2,2,1,0,0	8	0	84 3
16 q	18 8	541	502	10 22	39	13 36 27·6	17·9	6 0 9·7	15 45	1093	1074	11 45	19	0,1,1,1,2,2,1,1	9	0	84·3
17 q	16 41	560	501	12 3	59	13 3 27·8	17·7	8 2 10·1	0 28	1089	1077	9 27	*12*	1,0,1,1,2,3,1,1	10	0	84·3
18	2 13	556	498	9 36	58	13 1 26·7	13·0	2 33 13·7	16 0	1095	1059	2 25	36	3,2,2,1,2,1,2,1	14	1	84·2
19 q	18 30	541	507	11 11	*34*	14 0 26·9	17·0	8 7 9·9	0 2	1090	1071	10 50	19	1,0,0,1,2,0,0,0	4	0	84·2
20	20 45	568	491	23 31	77	12 59 30·1	6·2	23 47 23·9	23 0	1094	1066	11 30	28	1,0,1,1,2,2,3,4	14	1	84·2
21 d	19 22	541	469	2 12	72	2 29 35·0	5·8	1 49 29·2	17 5	1098	*1004*	3 0	94	5,2,3,3,2,2,2,2	21	1	84·2
22	23 24	577	478	23 10	99	13 16 27·7	5·3	22 50 22·4	19 30	1105	1041	23 39	64	2,1,1,2,2,2,4,4	18	1	84·2
23	19 51	572	461	23 13	111	13 41 28·6	5·5	22 50 23·1	21 18	1111	1045	24 0	66	4,2,1,2,2,2,3,4	20	1	84·2
24 d	22 3	576	449	8 53	127	12 24 29·5	8·2	0 22 21·3	19 58	1107	*1004*	1 34	103	4,2,3,4,4,1,3,4	25	1	84·1
25	23 5	558	490	11 31	68	13 54 27·9	9·6	19 47 18·3	19 27	1106	1063	2 11	43	3,2,2,2,2,2,4,3	20	1	84·1
26	0 40	588	486	10 31	102	14 22 29·4	11·6	21 52 17·8	15 48	1094	1033	0 50	61	4,2,1,2,2,2,2,3	18	1	84·1
27 d	21 53	556	486	11 49	70	12 18 29·7	8·1	20 16 21·6	20 6	1119	1075	22 10	44	1,2,2,2,2,3,4,3	19	1	84·1
28	21 32	547	498	10 18	49	13 26 27·1	16·6	7 39 10·5	18 42	1096	1078	11 50	18	1,2,1,1,1,2,2,2	12	0	84·1
29	21 9	556	490	11 52	66	13 40 27·7	11·6	21 0 16·1	20 55	1100	1075	5 12	25	1,2,2,2,1,1,3,3	15	0	84·1
30 d	19 53	*627*	*442*	20 25	*185*	14 51 *36·8*	*-12·7*	19 41 *49·5*	15 32	*1171*	1040	24 0	*131*	1,1,1,2,4,5,6,4	24	2	84·1
Mean	- -	562	485	- -	77	- - 29·3	12·1	- - 17·1	- -	1101	1057	- -	43	2·0	15·5	0·70	84·3

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.

138 ESKDALEMUIR (H) — 16,000γ (0·16 C.G.S. unit) + — OCTOBER 1944

	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	497	506	509	514	513	517	517	521	517	506	506	487	502	513	517	513	517	501	517	522	541	557	509	506	514
2	513	515	521	522	522	522	521	517	514	505	500	502	502	516	521	526	525	526	529	531	533	529	529	521	519
3	521	517	522	522	509	517	529	526	506	498	502	505	508	514	517	509	525	525	529	536	549	510	533	513	518
4	516	515	517	521	521	520	516	505	495	490	494	504	520	530	530	529	518	525	529	533	525	529	529	528	518
5 q	528	532	533	521	524	524	524	514	505	492	484	490	501	516	524	528	530	526	530	532	530	528	528	532	520
6	528	532	533	536	536	533	528	526	513	501	501	508	512	524	532	540	543	536	524	512	516	501	547	510	524
7	516	518	517	517	523	528	525	521	511	501	496	496	496	510	521	524	521	528	529	524	536	527	532	525	518
8 q	520	520	521	524	526	528	528	525	516	504	496	497	503	508	517	521	527	533	532	533	533	532	528	532	521
9 q	544	529	526	520	524	530	524	521	518	505	500	505	513	517	521	524	525	528	532	532	532	532	532	534	524
10	532	531	532	532	535	535	532	525	524	512	506	508	513	521	532	535	532	533	532	528	540	523	508	501	525
11 d	501	497	496	532	528	535	520	517	517	522	525	527	535	544	543	560	520	504	504	513	508	505	504	505	519
12	508	507	504	508	514	509	511	513	508	503	498	493	501	512	512	512	505	511	516	521	535	512	525	517	511
13	525	524	517	519	522	525	525	524	517	509	506	508	516	505	506	508	523	521	516	516	512	516	517	528	517
14 d	532	522	520	520	520	524	524	528	520	497	485	483	496	508	516	512	512	513	497	510	486	494	466	395	503
15 d	442	468	448	450	501	508	508	501	508	473	466	481	496	504	508	508	500	514	502	497	495	491	517	504	*491*
16	504	506	506	506	510	511	504	504	508	505	500	501	505	504	512	519	520	508	506	505	512	514	515	520	509
17	515	513	514	520	524	525	527	525	515	508	505	497	505	512	517	519	523	528	529	530	525	527	519	489	517
18	510	506	512	520	524	526	520	521	516	515	508	496	505	520	521	520	518	515	525	528	527	529	528	523	518
19 q	528	524	521	523	521	525	520	516	512	496	506	506	508	510	516	517	520	524	527	530	526	525	525	524	519
20	524	524	523	522	525	526	527	524	516	511	510	510	516	523	527	527	525	519	510	520	528	532	532	516	522
21 q	520	520	524	526	528	530	532	531	520	508	504	505	511	515	520	522	528	527	520	518	524	534	532	528	522
22	527	526	525	528	531	532	532	526	518	513	508	508	512	521	521	526	523	520	526	519	523	530	531	533	523
23	530	526	532	529	532	532	532	540	535	517	510	508	511	520	528	512	507	500	486	499	518	512	555	527	521
24 d	499	510	508	520	528	525	512	517	520	508	501	489	508	521	525	521	525	517	509	495	500	520	517	528	513
25	531	519	518	519	520	522	524	520	518	512	512	513	516	524	524	523	525	527	528	532	523	528	527	532	522
26	544	516	512	509	516	520	508	524	521	501	508	508	510	516	519	522	525	528	518	526	524	525	534	528	519
27	529	526	520	520	526	525	526	524	518	505	501	508	516	514	521	520	516	528	528	528	532	528	529	529	522
28	529	529	529	529	529	521	521	522	522	519	506	506	508	512	512	520	523	519	524	515	520	525	528	532	521
29	535	532	530	530	528	530	528	525	520	513	515	519	522	526	529	530	531	535	528	520	528	525	539	524	*527*
30	519	524	526	526	527	527	523	528	526	514	511	513	516	519	520	526	527	531	531	532	532	532	532	527	525
31	530	530	534	531	523	527	520	528	504	515	511	512	515	517	513	520	526	511	513	515	543	537	522	523	522
Mean	519	518	518	520	523	525	522	521	515	506	*503*	503	510	517	521	522	522	521	520	521	524	523	*525*	517	518

MAGNETIC DECLINATION (WEST)

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

139 ESKDALEMUIR (D) — 12° + — OCTOBER 1944

	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	16·0	16·2	18·5	19·2	20·1	21·3	19·9	19·7	18·1	19·7	22·6	26·0	23·9	25·0	26·5	26·1	23·8	18·0	21·0	23·1	16·1	21·7	17·0	18·6	20·8
2	21·5	21·2	19·9	19·6	19·8	19·7	19·2	18·5	18·0	19·5	20·8	24·8	24·1	24·6	23·5	23·2	22·4	22·4	21·3	19·8	16·2	17·0	16·2	15·3	20·4
3	19·2	22·7	21·2	19·0	22·3	22·2	20·6	18·0	17·8	16·8	20·0	23·8	27·7	27·2	26·0	22·2	17·7	20·4	21·4	19·7	11·7	14·4	17·9	14·2	20·2
4	20·2	19·7	21·0	19·7	19·7	19·8	18·9	17·9	17·8	19·7	23·5	26·9	27·8	27·0	25·3	24·3	22·5	22·2	21·4	15·9	18·4	20·5	20·6	20·6	21·3
5 q	20·7	21·7	21·5	20·0	19·6	19·6	18·6	17·4	16·6	18·4	21·5	25·7	26·9	26·5	25·7	24·2	22·5	22·2	22·2	21·7	21·1	20·6	20·5	20·8	*21·5*
6	20·0	20·8	21·0	20·0	20·0	20·3	21·4	18·8	18·1	19·0	21·7	25·7	27·1	27·4	26·0	25·3	24·4	25·2	21·1	17·2	20·8	14·1	7·2	12·7	20·6
7	18·3	19·6	19·8	20·3	21·5	19·9	18·8	17·6	17·1	18·7	21·1	23·6	25·8	26·2	26·0	24·5	23·1	21·9	21·5	17·7	16·8	20·4	18·5	17·1	20·7
8 q	18·7	19·5	19·7	19·8	19·9	19·9	19·7	18·7	17·9	17·9	20·0	23·3	25·2	25·6	25·1	23·9	22·8	22·6	21·9	21·5	20·9	20·5	17·9	18·8	20·9
9 q	18·3	19·6	17·9	18·8	19·1	18·9	19·0	18·3	17·4	18·8	19·9	22·8	24·6	25·1	24·9	24·0	22·6	22·2	22·1	21·5	21·3	20·6	20·6	20·2	20·8
10	20·1	20·4	20·3	20·1	20·5	20·5	20·2	19·8	19·2	19·8	22·5	24·3	25·6	25·4	24·4	23·5	21·7	21·5	21·6	19·8	17·6	22·5	7·3	13·0	20·5
11 d	14·6	6·4	9·8	19·9	14·1	17·2	18·7	16·9	16·3	17·4	19·9	23·3	27·1	29·7	34·1	38·9	35·7	28·2	25·1	21·7	21·0	16·1	16·0	18·1	21·1
12	19·4	19·6	20·7	20·8	19·5	19·6	19·7	18·8	18·4	19·1	21·4	23·6	25·3	24·3	23·6	22·2	19·7	19·4	20·5	19·2	19·4	15·0	20·7	18·6	20·4
13	21·1	23·2	19·4	19·6	19·7	19·7	19·5	18·7	17·9	18·7	21·6	24·7	26·9	26·4	26·9	21·1	22·0	22·3	20·6	16·2	16·3	13·4	17·0	22·4	20·6
14 d	18·8	20·6	20·6	21·0	20·5	20·1	20·7	20·1	20·0	21·6	25·6	28·7	28·9	29·8	29·2	25·3	18·6	22·4	13·1	16·0	8·9	9·8	7·1	−6·4	19·2
15 d	20·6	7·1	11·2	25·1	22·2	16·9	16·9	16·2	17·3	19·8	24·1	27·6	25·9	25·9	24·4	22·7	18·4	20·5	18·5	16·6	12·3	12·4	19·4	13·4	*19·0*
16	16·9	18·6	19·0	18·9	19·1	18·6	17·6	17·5	17·1	18·8	20·6	22·9	24·4	25·0	23·4	23·0	22·0	20·7	15·9	17·2	18·5	17·8	17·6	20·0	19·6
17	21·0	18·8	19·0	19·7	18·8	19·2	18·1	18·4	18·1	19·7	22·5	24·9	26·4	25·0	24·3	22·4	21·6	21·7	21·6	21·5	22·0	19·7	11·3	12·1	20·3
18	20·0	15·2	19·7	19·6	18·8	18·5	19·7	19·1	18·4	19·6	22·1	23·9	24·6	23·2	22·6	21·7	20·9	18·8	19·7	20·7	20·0	20·5	19·9	19·7	20·3
19 q	21·0	21·2	20·4	19·8	19·2	18·9	18·8	18·0	18·1	19·7	21·1	22·8	23·5	23·4	22·4	21·5	20·6	20·9	20·7	20·6	20·5	20·0	20·4	20·4	20·6
20	20·5	19·9	20·3	20·0	19·5	19·6	19·4	18·5	18·0	19·6	21·2	22·6	23·3	23·5	22·4	21·5	21·5	22·4	22·9	21·8	20·6	16·9	8·9	15·2	20·0
21 q	18·4	19·1	20·5	19·5	19·1	19·5	19·6	18·5	17·9	18·8	20·4	22·3	23·5	24·2	23·3	22·3	21·7	21·4	21·6	21·4	21·6	18·4	17·3	19·4	20·4
22	19·9	20·2	19·8	20·5	20·2	20·6	19·2	18·5	17·9	18·8	20·5	23·0	23·7	24·1	24·1	22·2	21·7	21·8	21·7	19·7	18·0	19·7	19·7	18·9	20·6
23	19·4	19·8	20·9	19·1	19·7	19·7	19·4	18·8	18·9	19·6	21·5	23·6	24·0	24·4	24·3	23·9	27·6	25·1	17·4	17·2	18·9	11·6	16·1	12·3	20·1
24 d	15·3	23·5	23·4	22·1	20·1	19·0	18·7	19·5	18·4	19·5	22·8	24·1	24·5	23·4	23·6	22·0	19·9	18·4	18·7	12·8	18·9	19·7	18·6	19·6	20·3
25	21·5	18·6	18·9	20·2	19·8	19·7	19·6	19·1	19·2	20·7	22·5	24·1	24·4	23·9	23·3	21·5	21·0	21·5	21·0	8·9	17·9	19·9	19·7	19·1	20·3
26	17·8	18·8	16·0	19·7	18·8	18·8	20·5	21·5	20·6	19·7	20·8	22·2	23·3	23·3	22·5	21·8	21·0	21·2	18·8	19·0	17·8	18·3	19·5	21·1	20·1
27	23·3	20·1	18·9	20·6	19·6	19·1	18·5	17·4	17·0	18·9	20·9	23·3	25·0	24·0	23·1	22·0	13·6	19·6	20·4	20·6	19·6	19·7	19·8	19·9	20·2
28	19·8	20·4	20·1	20·4	18·4	17·9	19·5	17·6	16·4	20·4	21·8	24·1	24·6	24·2	22·8	21·8	22·0	21·5	21·0	19·8	17·9	19·8	18·7	19·8	20·4
29	21·4	19·9	19·9	19·8	20·4	20·4	19·6	18·9	18·7	18·8	21·2	23·6	24·3	23·6	22·5	21·8	21·4	21·3	21·6	20·8	21·5	20·1	17·1	17·7	20·7
30	17·6	20·4	19·2	19·1	19·7	18·9	19·3	19·0	19·2	20·4	21·9	23·3	23·4	23·3	22·1	21·5	21·5	21·5	20·9	20·6	20·2	19·9	19·8	19·7	20·5
31	19·7	19·6	20·8	16·5	17·2	20·6	20·6	22·0	20·1	19·8	22·1	24·2	23·3	25·8	24·5	21·3	22·2	16·8	20·2	19·5	16·5	16·8	17·8	19·0	20·3
Mean	19·4	19·1	19·3	19·9	19·6	19·5	19·3	18·6	18·1	19·3	21·6	24·2	25·1	*25·2*	24·6	23·3	21·9	21·5	20·6	19·0	18·4	18·0	*17·0*	17·1	20·4

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

140 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — OCTOBER 1944

	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	1053	1080	1087	1088	1088	1087	1088	1088	1088	1089	1089	1092	1096	1093	1095	1095	1106	1122	1109	1101	1096	1064	1065	1078	1089
2	1078	1084	1089	1093	1092	1092	1093	1094	1094	1093	1091	1088	1088	1089	1093	1094	1096	1095	1095	1094	1094	1091	1087	1083	1091
3	1081	1081	1081	1084	1082	1067	1075	1085	1089	1091	1086	1085	1087	1094	1100	1108	1113	1104	1098	1095	1087	1083	1067	1059	1087
4	1050	1071	1082	1088	1092	1093	1093	1094	1094	1087	1082	1082	1083	1087	1093	1099	1099	1095	1094	1094	1092	1089	1089	1090	1088
5 q	1091	1090	1084	1084	1087	1089	1093	1095	1094	1089	1082	1082	1084	1087	1092	1096	1095	1094	1093	1092	1090	1091	1091	1090	1090
6	1089	1089	1087	1087	1088	1089	1089	1092	1090	1083	1081	1082	1082	1083	1087	1091	1090	1093	1100	1118	1112	1117	1093	1080	1091
7	1083	1088	1092	1093	1093	1093	1093	1094	1094	1091	1084	1083	1086	1089	1094	1099	1099	1095	1094	1099	1091	1088	1089	1089	1091
8 q	1088	1089	1092	1092	1092	1093	1092	1094	1094	1093	1087	1083	1083	1087	1089	1093	1093	1089	1089	1089	1089	1092	1093	1090	1090
9 q	1083	1082	1085	1087	1089	1089	1094	1096	1096	1094	1088	1084	1083	1087	1092	1094	1095	1094	1094	1094	1094	1095	1095	1095	1091
10	1094	1094	1093	1093	1093	1093	1094	1095	1095	1095	1089	1088	1089	1091	1093	1094	1095	1095	1094	1099	1095	1098	1093	1082	1093
11 d	1048	1020	1004	963	1028	1064	1082	1088	1088	1087	1083	1081	1082	1083	1089	1104	1164	1152	1141	1125	1119	1120	1112	1106	1085
12	1101	1100	1095	1095	1096	1099	1099	1100	1099	1098	1095	1094	1094	1098	1100	1106	1110	1111	1107	1105	1092	1093	1088	1088	1098
13	1088	1083	1092	1094	1095	1095	1095	1099	1098	1095	1090	1088	1090	1096	1105	1117	1110	1106	1109	1111	1108	1100	1092	1080	1097
14 d	1072	1084	1091	1094	1094	1095	1098	1097	1094	1094	1095	1099	1104	1105	1108	1124	1135	1122	1131	1118	1113	1094	1040	967	1095
15 d	925	934	967	984	1041	1084	1099	1102	1100	1106	1105	1102	1108	1112	1113	1116	1117	1116	1118	1128	1117	1100	1044	1052	*1075*
16	1080	1091	1093	1096	1097	1097	1098	1101	1099	1098	1093	1092	1095	1101	1106	1105	1105	1111	1117	1114	1110	1108	1106	1095	1100
17	1077	1080	1089	1094	1098	1096	1097	1098	1096	1094	1092	1091	1093	1098	1101	1104	1103	1100	1100	1101	1101	1108	1105	1102	1097
18	1092	1093	1095	1099	1100	1099	1094	1094	1094	1093	1093	1094	1100	1100	1105	1105	1105	1105	1102	1100	1100	1099	1099	1100	1098
19 q	1097	1096	1098	1098	1099	1099	1100	1102	1101	1100	1095	1095	1095	1099	1101	1102	1103	1101	1100	1099	1099	1099	1099	1099	1099
20	1099	1099	1099	1099	1099	1100	1100	1101	1101	1098	1093	1094	1098	1100	1102	1102	1102	1105	1108	1107	1104	1103	1098	1094	1100
21 q	1094	1096	1094	1094	1095	1095	1094	1094	1094	1098	1093	1093	1094	1099	1100	1101	1100	1104	1106	1107	1106	1104	1100	1099	1098
22	1099	1099	1100	1096	1095	1094	1094	1096	1099	1095	1093	1093	1093	1094	1099	1100	1102	1102	1101	1105	1105	1100	1099	1096	1098
23	1094	1095	1093	1093	1093	1094	1094	1092	1092	1092	1090	1091	1092	1092	1096	1111	1129	1142	1159	1144	1126	1114	1063	1062	*1102*
24 d	1079	1081	1069	1072	1081	1087	1093	1093	1094	1092	1088	1092	1096	1098	1103	1104	1105	1111	1117	1128	1118	1107	1105	1100	1096
25	1087	1093	1095	1099	1099	1099	1098	1098	1099	1098	1095	1095	1099	1100	1103	1102	1101	1101	1105	1108	1102	1099	1100	1099	1099
26	1081	1079	1077	1087	1094	1094	1094	1094	1096	1102	1100	1100	1100	1101	1101	1102	1101	1101	1106	1105	1105	1102	1098	1094	1096
27	1086	1088	1093	1094	1094	1095	1098	1099	1100	1099	1096	1095	1096	1102	1106	1107	1111	1105	1101	1100	1099	1100	1101	1100	1099
28	1101	1099	1096	1096	1095	1096	1095	1093	1095	1089	1092	1094	1097	1100	1106	1106	1106	1106	1105	1107	1107	1106	1101	1099	1099
29	1094	1094	1094	1094	1094	1093	1094	1094	1095	1100	1091	1090	1092	1093	1094	1094	1094	1094	1096	1100	1100	1101	1100	1098	1095
30	1099	1097	1098	1096	1095	1095	1097	1096	1095	1097	1095	1095	1099	1104	1104	1101	1099	1096	1095	1095	1095	1097	1098	1100	1097
31	1099	1096	1084	1086	1089	1087	1087	1085	1089	1089	1093	1094	1098	1103	1107	1111	1107	1112	1111	1106	1100	1093	1094	1095	1096
Mean	*1080*	1082	1083	1084	1089	1092	1094	1095	1095	1094	1091	1091	1093	1096	1099	1103	1106	1106	*1106*	1106	1102	1099	1091	1086	1094

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

141 ESKDALEMUIR — OCTOBER 1944

	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 12° +	Minimum 12° +	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 d	21 0	608	462	11 36	146	14 5 28·5	11·6 22 57	16·9	17 30	1125	1039	0 3	86	4,2,2,4,3,4,4,5	28	1	84·0
2	23 0	545	490	12 0	55	11 49 26·4	12·5 22 54	13·9	16 38	1098	1075	0 9	23	1,0,1,2,2,2,3,3	14	1	84·0
3	20 44	580	489	8 30	91	12 58 28·8	5·3 20 35	23·5	16 20	1117	1049	24 0	68	3,2,3,2,3,3,4,3	23	1	84·0
4	19 33	543	486	10 30	57	11 53 28·6	10·8 19 30	17·8	15 42	1101	1042	0 12	59	2,1,1,3,2,3,3,1	16	0	84·0
5 q	2 14) 23 10)	543	479	10 56	64	12 8 27·4	16·1 8 17	11·3	15 38	1098	1081	3 5	17	2,1,2,1,2,2,0,2	12	0	84·0
6	16 51	557	487	21 40	70	13 31 28·0	5·3 22 25	22·7	19 22	1123	1072	22 58	51	2,1,1,2,1,3,3,4	17	1	84·0
7	20 30	550	483	12 10	67	13 0 27·4	11·7 20 26	15·7	15 50	1100	1081	0 1	19	2,1,1,2,2,2,3,2	15	0	83·9
8 q	17 48	539	493	10 55	46	12 48 26·0	16·9 22 34	9·1	8 0	1095	1081	11 50	14	1,0,0,1,0,1,1,2	6	0	83·9
9 q	0 13	563	497	10 22	66	13 46 25·5	16·2 8 11	9·3	8 0	1098	1081	0 31	17	3,1,2,1,1,0,0,0	8	0	83·9
10	20 26	550	489	24 0	61	12 36 26·2	5·3 22 13	20·9	19 50	1101	1067	24 0	34	0,0,0,1,1,2,3,4	11	1	83·9
11 d	15 36	590	465	16 44	125	15 39 *42·1*	2·6 1 24	39·5	16 44	*1178*	955	3 6	223	5,5,2,2,3,5,2,4	28	2	83·8
12	20 20	563	482	11 33	81	12 26 26·1	14·1 21 27	12·0	17 0	1113	1082	22 50	31	1,2,2,2,2,3,3,3	18	1	83·8
13	24 0	548	478	15 23	70	12 30 27·9	12·4 21 13	15·5	15 42	1119	1067	24 0	52	2,1,1,1,3,3,3,4	18	1	83·8
14 d	0 6	552	*301*	23 18	*251*	13 23 30·4	*-18·1* 23 17	*48·5*	16 9	1148	*909*	24 0	*239*	2,1,2,2,2,4,4,6	23	2	83·8
15 d	22 22	550	327	0 19	223	3 2 30·7	-4·6 0 8	35·3	19 38	1130	*909*	0 1	221	6,5,3,2,2,2,3,5	28	2	83·8
16	16 28	529	492	17 45	37	13 40 25·3	12·7 18 20	12·6	18 20	1119	1068	0 1	51	2,1,3,1,2,3,3,2	17	0	83·8
17	21 48	540	477	9 2	63	12 40 26·9	8·9 23 9	18·0	21 35	1111	1070	0 55	41	2,2,2,3,2,1,1,4	17	1	83·7
18	20 30	535	481	11 23	54	12 20 26·2	14·1 1 26	12·1	14 45	1107	1088	0 33	19	3,2,2,3,2,2,1,1	16	0	83·7
19 q	0 33	536	490	9 34	46	12 58 23·9	17·8 7 35	*6·1*	15 30	1104	1093	11 50	*11*	2,1,0,2,1,1,1,0	8	0	83·7
20	22 10	552	499	18 54	53	18 46 25·1	6·3 22 6	18·8	18 55	1111	1092	10 42	19	0,0,0,2,1,2,2,4	11	0	83·6
21 q	22 12	544	497	11 9	47	13 8 24·5	15·3 22 9	9·2	19 34	1110	1090	11 20	20	1,1,1,2,1,1,1,2	10	0	83·6
22	15 20	543	502	10 22	41	14 5 25·1	16·9 7 50	8·2	19 40	1106	1091	11 33	15	1,1,1,1,2,3,2,1	12	0	83·6
23	22 14	*618*	470	18 46	148	16 37 31·5	-1·9 22 3	33·4	18 6	1171	1055	22 52	116	2,1,2,1,1,4,3,5	19	1	83·6
24 d	21 53	544	477	11 38	67	1 47 27·6	7·9 0 1	19·7	19 40	1131	1069	2 25	62	4,2,3,2,2,2,4,3	22	1	83·5
25	24 0	555	505	19 8	50	12 20 25·1	4·4 19 16	20·7	19 29	1113	1083	0 28	30	3,1,2,1,2,1,4,3	17	1	83·5
26	0 4	575	488	9 50	87	1 5 27·5	12·3 0 36	15·2	19 0	1108	1071	2 18	37	4,2,3,3,1,2,3,2	20	1	83·5
27	20 45	548	493	16 20	55	13 0 25·5	9·8 16 29	15·7	16 40	1112	1083	0 40	29	2,1,1,1,2,3,2,0	12	0	83·4
28	22 20	536	505	10 30	31	12 2 25·9	13·5 19 53	12·4	19 53	1111	1088	9 32	23	1,2,2,1,2,2,3,2	15	0	83·4
29	22 42	555	512	10 25	43	12 41 25·1	14·9 24 0	10·2	21 32	1102	1090	11 55	12	1,1,0,2,1,2,2,3	12	0	83·4
30	19 45	538	508	10 46	*30*	11 57 23·8	15·0 0 1	8·8	14 20	1105	1093	17 50	12	2,1,2,2,1,1,0,1	10	0	83·4
31	20 33	576	500	17 20	76	11 57 26·7	11·6 20 30	15·1	17 34	1113	1082	2 45	31	2,2,2,2,2,3,4,2	19	1	83·3
Mean	- -	555	478	- -	77	- - 27·3	9·6 - -	17·7	- -	1115	1061	- -	54	2·0	16·2	0·61	83·7

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.

142 ESKDALEMUIR (H) — 16,000γ (0·16 C.G.S. unit) + — NOVEMBER 1944

	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	523	523	524	523	527	527	527	527	524	515	507	511	514	515	520	525	528	531	529	531	531	530	532	531	524
2	527	527	527	528	527	525	527	527	524	515	511	515	527	531	531	528	530	531	534	534	531	528	532	531	527
3	530	531	531	534	534	534	537	532	531	516	515	507	500	512	526	515	515	519	531	532	531	531	531	531	525
4 d	527	527	524	531	528	539	542	520	515	511	499	499	484	505	509	504	515	528	515	522	522	524	538	527	519
5 d	524	528	527	527	535	543	534	508	498	489	493	498	495	507	505	511	519	487	488	484	508	538	487	508	*510*
6 d	515	512	512	514	527	518	515	511	488	504	503	503	496	504	507	519	519	527	527	527	521	519	520	517	514
7	516	518	520	522	524	526	527	526	524	523	515	515	516	516	511	501	512	518	519	515	511	519	519	522	518
8	524	530	534	521	525	527	527	524	519	515	508	511	517	519	519	520	524	528	531	531	531	528	531	531	524
9	534	528	523	528	528	531	531	531	520	531	527	525	520	519	519	520	521	527	529	524	531	531	526	527	526
10 d	527	527	527	527	531	534	538	547	544	539	530	529	515	505	516	526	504	519	514	527	524	523	521	520	526
11	519	520	521	523	523	527	526	520	517	517	513	515	516	520	530	528	531	516	522	525	527	530	527	525	522
12	526	532	527	531	531	531	535	531	529	527	519	519	523	526	530	532	533	532	532	534	532	531	528	527	529
13 q	527	527	528	529	531	533	534	534	530	523	524	527	535	537	536	534	535	535	534	534	531	533	532	532	531
14	531	534	534	535	535	536	539	541	535	530	524	527	531	531	528	523	519	513	515	524	529	529	535	527	529
15 q	523	524	525	526	531	535	537	536	532	529	527	528	534	533	532	531	531	530	531	527	527	530	531	527	530
16	528	530	531	536	540	542	540	538	529	524	520	521	525	526	529	531	535	538	535	534	531	531	529	531	531
17	530	531	531	534	535	535	535	535	531	527	520	520	527	534	536	538	539	538	536	531	532	534	527	534	532
18	534	531	534	536	541	539	540	538	531	527	524	519	523	524	514	511	526	532	535	538	538	534	536	533	531
19	531	527	523	532	540	545	541	538	537	530	520	527	531	527	526	516	535	531	527	524	528	531	530	527	530
20 d	529	532	533	532	543	559	551	543	534	531	516	515	507	487	495	487	493	484	484	508	507	507	535	507	517
21	506	514	516	519	523	523	524	520	519	519	518	516	519	521	520	523	524	527	527	527	523	523	519	522	521
22	522	523	524	525	527	531	528	527	525	519	517	519	524	530	527	524	511	524	524	525	527	529	531	527	525
23	524	524	531	531	532	535	537	531	528	523	518	515	514	520	516	520	523	523	523	525	528	531	530	528	525
24 q	524	522	522	527	531	531	531	535	531	523	520	519	522	524	527	528	531	532	533	531	531	531	531	528	528
25 q	528	527	531	534	537	536	538	538	535	531	528	526	528	531	532	535	535	535	535	534	534	536	536	534	533
26	530	538	524	530	531	531	528	530	524	515	515	518	523	526	520	521	530	534	535	535	532	533	531	533	528
27 q	531	531	534	535	532	534	530	529	526	521	518	518	520	527	531	532	534	534	535	534	536	536	535	535	530
28	535	534	531	529	528	527	527	524	523	520	519	523	527	530	531	534	537	540	539	537	539	537	532	534	531
29	533	534	533	534	535	543	544	543	538	534	528	524	527	530	529	528	529	533	534	534	535	535	531	530	*533*
30	545	530	530	530	531	535	539	539	539	536	530	527	523	523	525	517	525	533	528	522	519	523	526	526	529
Mean	527	527	527	529	531	*534*	534	531	526	522	*517*	518	519	521	523	522	525	526	526	527	528	529	528	527	526

MAGNETIC DECLINATION (WEST)

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

143 ESKDALEMUIR (D) — 12° + — NOVEMBER 1944

	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	19·6	19·6	19·8	20·1	20·1	19·8	19·6	19·2	18·4	18·5	19·9	22·4	24·1	24·0	22·3	21·5	21·4	21·4	20·3	20·3	20·3	19·6	18·3	18·7	20·4
2	18·9	19·6	19·5	20·8	19·2	18·8	18·7	18·8	18·7	19·0	20·6	23·1	24·0	23·6	22·4	21·4	21·3	21·1	20·7	20·5	20·1	19·5	18·8	19·7	20·4
3	19·7	20·3	20·4	20·5	20·4	20·3	20·1	18·8	18·8	18·8	21·4	23·6	25·0	25·2	25·2	26·7	23·8	24·0	21·0	20·5	19·8	19·5	19·5	19·1	*21·3*
4 d	19·3	19·3	20·8	21·0	20·8	19·7	18·9	19·2	20·7	20·6	21·6	24·9	25·9	28·1	27·1	26·0	20·3	21·3	22·2	20·5	19·7	18·8	17·1	16·3	21·3
5 d	18·4	19·0	17·7	22·3	15·4	20·6	22·3	21·4	22·7	20·5	21·2	23·2	25·0	23·0	24·0	19·9	20·5	16·9	18·8	15·6	14·2	7·9	5·2	9·4	*18·5*
6 d	13·4	15·2	17·7	16·9	20·6	23·2	22·0	22·1	22·3	24·7	24·1	25·6	25·1	26·4	21·9	23·1	22·2	21·2	20·5	20·1	20·3	18·6	18·0	19·0	21·0
7	18·9	18·8	19·4	19·5	19·6	19·5	19·2	19·4	18·9	18·8	19·7	21·6	22·3	22·0	21·3	20·6	21·4	21·1	20·3	19·0	17·6	15·1	15·1	18·5	19·5
8	18·9	19·6	18·7	18·6	19·6	18·9	18·7	20·4	22·5	22·3	24·0	25·2	24·0	23·5	22·5	21·4	20·7	20·5	20·4	20·0	19·8	19·6	18·9	18·6	20·7
9	18·7	17·8	21·1	19·8	19·1	19·1	18·9	19·1	20·8	20·9	21·5	22·3	22·1	22·2	22·1	20·9	20·7	20·5	19·9	20·5	13·1	17·7	19·4	19·6	19·9
10 d	19·6	19·7	20·1	20·3	20·3	20·4	19·7	19·8	19·3	19·5	20·5	22·4	25·0	25·1	26·1	24·7	21·4	16·0	23·2	20·6	19·6	18·8	18·8	18·7	20·8
11	18·7	19·5	19·5	19·6	19·7	19·3	19·2	18·8	18·4	18·8	20·0	22·2	23·1	21·5	21·4	21·2	21·3	18·6	20·7	19·9	20·1	19·3	19·0	18·9	19·9
12	18·8	19·7	19·2	19·6	19·7	19·4	19·1	18·8	18·2	18·5	20·1	21·8	23·2	22·9	21·9	21·2	20·7	19·9	19·6	19·6	19·4	19·1	19·2	19·4	20·0
13 q	19·4	19·6	19·7	19·9	19·7	19·7	19·5	19·0	18·6	18·6	19·8	21·8	22·4	22·2	21·3	20·6	20·5	20·0	19·7	19·5	19·3	18·8	18·9	19·1	19·9
14	19·8	20·3	20·7	20·5	20·5	20·4	19·3	19·0	18·8	19·6	21·3	22·4	23·0	22·5	22·3	22·4	22·8	22·7	20·8	19·7	19·5	18·8	17·8	15·9	20·5
15 q	16·5	19·2	19·6	20·1	20·3	19·8	19·5	19·1	18·7	18·9	20·5	21·6	22·4	22·1	21·4	21·4	22·0	21·5	20·9	20·3	19·4	19·5	17·2	17·3	20·0
16	18·3	18·5	19·8	21·4	19·2	18·9	19·2	19·7	19·6	20·5	20·5	21·9	22·7	22·2	22·3	20·9	20·9	20·5	20·4	19·7	19·5	19·3	18·8	18·8	20·1
17	19·5	19·6	19·8	20·2	19·9	19·8	19·3	18·9	18·7	18·8	19·4	20·3	21·6	22·1	21·4	20·9	20·6	20·6	20·5	20·1	19·7	18·9	18·7	16·5	19·8
18	16·3	18·2	19·7	20·1	20·5	19·6	19·4	19·0	19·1	19·7	20·7	21·5	23·0	23·2	23·2	24·2	22·0	20·9	20·6	19·6	19·4	18·7	19·1	19·2	20·3
19	18·2	18·7	23·8	19·9	19·6	18·2	18·5	18·7	19·3	19·0	20·0	21·3	22·3	22·3	22·2	21·5	21·7	21·5	20·5	19·7	17·3	17·7	17·3	18·1	19·9
20 d	19·3	19·1	18·3	20·9	22·2	16·3	19·6	21·4	22·3	22·3	22·5	24·3	24·7	29·6	30·7	21·1	21·1	23·2	18·4	18·9	18·6	16·3	8·5	12·5	20·5
21	17·0	18·7	19·5	19·6	19·9	20·0	19·7	19·6	18·9	18·8	19·6	19·7	20·6	20·9	20·4	19·8	19·8	19·8	19·6	19·5	18·3	17·9	17·8	17·9	19·3
22	18·5	18·7	19·4	19·4	19·5	19·4	19·2	19·1	18·9	19·0	19·6	20·5	20·7	21·2	20·7	20·5	19·6	19·9	20·3	19·5	18·9	18·9	17·8	17·2	19·4
23	17·9	20·3	19·5	19·6	19·4	18·6	18·3	18·9	19·5	19·7	19·4	20·5	20·8	21·3	21·4	21·4	21·6	20·9	19·3	19·1	18·9	18·5	17·7	17·9	19·6
24 q	18·0	18·6	18·8	18·9	18·8	18·4	18·4	18·6	18·5	18·0	19·4	20·4	20·9	21·2	20·6	20·4	20·1	19·7	19·6	19·6	19·4	18·8	18·7	18·8	19·3
25 q	19·5	19·7	19·7	20·0	19·8	19·7	19·4	19·0	18·8	18·8	19·6	20·2	20·8	21·3	21·2	20·5	19·7	19·6	19·5	19·1	19·3	19·5	19·6	19·6	19·7
26	18·6	18·3	14·3	17·3	18·4	18·0	18·4	17·8	17·9	18·7	19·7	20·7	21·8	22·6	21·5	22·0	20·2	19·6	19·5	18·8	18·7	18·3	18·1	17·9	19·0
27 q	18·9	19·7	19·5	18·8	18·0	17·8	18·5	17·8	18·0	18·3	19·2	20·8	21·9	22·1	21·2	20·1	19·6	18·9	18·8	18·7	18·7	18·7	18·7	18·8	19·2
28	19·1	19·5	19·3	18·8	18·7	18·6	18·5	18·5	18·4	18·2	19·3	20·8	21·3	21·2	20·5	20·3	19·6	19·3	19·1	18·7	19·0	18·9	18·3	18·5	19·3
29	18·8	19·0	19·5	19·9	20·6	19·6	19·1	19·0	18·8	18·7	19·0	19·8	21·0	21·4	21·4	21·0	20·6	20·5	19·0	18·7	18·6	18·5	18·6	18·3	19·6
30	17·4	17·9	19·0	19·2	19·4	18·8	18·7	18·9	19·5	20·1	20·5	21·7	23·1	25·0	25·2	23·5	20·2	19·6	18·8	18·5	18·2	15·9	17·7	18·7	19·8
Mean	18·5	19·1	19·5	19·8	19·6	19·3	19·3	19·3	19·4	19·5	20·5	21·9	22·8	*23·1*	22·6	21·7	20·9	20·4	20·1	19·5	18·8	18·2	*17·5*	17·9	20·0

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

144 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — NOVEMBER 1944

	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	1097	1099	1099	1099	1098	1095	1094	1094	1095	1096	1095	1094	1094	1098	1101	1101	1100	1098	1096	1096	1095	1096	1098	1093	1097
2	1094	1095	1096	1095	1093	1094	1093	1090	1092	1093	1090	1089	1090	1095	1099	1099	1099	1099	1095	1095	1094	1095	1095	1094	1094
3	1095	1095	1095	1095	1094	1093	1092	1092	1092	1093	1089	1093	1099	1101	1102	1106	1107	1111	1107	1102	1100	1099	1099	1098	1098
4 d	1098	1096	1095	1093	1094	1093	1092	1094	1094	1095	1098	1099	1105	1111	1113	1123	1134	1118	1117	1113	1111	1110	1105	1099	1104
5 d	1096	1096	1094	1079	1075	1081	1081	1085	1089	1095	1099	1101	1107	1112	1114	1122	1118	1126	1136	1141	1126	1080	1068	1065	1099
6 d	1066	1065	1066	1064	1062	1062	1070	1081	1091	1095	1099	1100	1105	1109	1119	1110	1106	1101	1100	1100	1101	1106	1105	1102	*1091*
7	1101	1100	1100	1100	1099	1098	1096	1095	1095	1095	1093	1094	1093	1100	1106	1110	1106	1105	1106	1106	1108	1105	1099	1095	1100
8	1095	1092	1083	1086	1086	1087	1089	1089	1089	1092	1093	1093	1093	1095	1098	1100	1099	1096	1096	1095	1095	1098	1097	1097	1093
9	1094	1093	1092	1088	1090	1093	1094	1093	1094	1093	1091	1093	1093	1095	1100	1101	1102	1101	1101	1101	1104	1095	1095	1095	1095
10 d	1095	1095	1094	1094	1094	1094	1093	1089	1089	1088	1088	1088	1095	1100	1097	1099	1117	1124	1117	1107	1105	1104	1102	1101	1099
11	1100	1099	1098	1095	1096	1096	1096	1096	1099	1100	1099	1100	1101	1101	1101	1100	1100	1105	1101	1100	1100	1100	1100	1100	1099
12	1099	1095	1095	1094	1094	1094	1094	1094	1097	1099	1095	1095	1095	1099	1100	1099	1096	1096	1095	1095	1094	1095	1096	1096	1096
13 q	1095	1095	1095	1094	1094	1093	1094	1094	1095	1097	1094	1093	1094	1095	1096	1096	1095	1094	1094	1094	1094	1094	1094	1094	1094
14	1094	1094	1094	1093	1092	1089	1088	1089	1093	1093	1092	1093	1095	1099	1101	1100	1101	1105	1106	1102	1100	1100	1098	1095	1096
15 q	1094	1093	1094	1094	1093	1093	1093	1090	1090	1092	1087	1089	1094	1099	1096	1095	1095	1095	1096	1096	1097	1095	1095	1094	1094
16	1094	1094	1093	1090	1089	1089	1088	1089	1092	1094	1093	1093	1095	1099	1100	1099	1098	1096	1095	1095	1095	1095	1095	1095	1094
17	1095	1095	1094	1094	1094	1093	1093	1093	1094	1095	1095	1095	1095	1096	1099	1096	1095	1094	1094	1094	1094	1094	1095	1094	1095
18	1088	1082	1087	1088	1088	1088	1088	1089	1093	1094	1094	1095	1095	1099	1104	1106	1103	1100	1098	1095	1094	1095	1094	1094	1094
19	1094	1093	1089	1083	1087	1087	1087	1087	1088	1090	1087	1087	1088	1092	1096	1100	1099	1099	1100	1100	1100	1096	1094	1094	1092
20 d	1093	1093	1092	1090	1078	1076	1076	1077	1078	1083	1087	1088	1095	1107	1118	1152	1161	1167	1159	1136	1119	1117	1100	1094	*1106*
21	1099	1099	1100	1100	1100	1099	1099	1098	1095	1095	1095	1095	1095	1099	1104	1104	1103	1101	1101	1101	1101	1101	1101	1100	1099
22	1100	1100	1099	1099	1099	1099	1099	1099	1099	1099	1095	1094	1093	1094	1098	1100	1104	1102	1101	1102	1101	1099	1096	1095	1099
23	1094	1093	1088	1090	1092	1093	1094	1094	1094	1095	1095	1095	1095	1096	1101	1102	1103	1102	1105	1102	1100	1100	1099	1097	1097
24 q	1096	1095	1095	1094	1094	1093	1093	1092	1094	1094	1092	1090	1093	1094	1095	1094	1094	1094	1094	1094	1094	1095	1094	1094	1094
25 q	1094	1094	1093	1092	1090	1092	1092	1090	1092	1093	1093	1093	1093	1090	1092	1094	1094	1094	1094	1094	1094	1093	1093	1093	1093
26	1093	1078	1077	1078	1083	1088	1090	1092	1093	1098	1096	1096	1098	1099	1100	1100	1098	1096	1095	1095	1095	1095	1095	1095	1093
27 q	1094	1093	1089	1088	1088	1088	1089	1090	1092	1095	1096	1099	1100	1099	1099	1099	1099	1098	1096	1095	1095	1095	1095	1095	1094
28	1095	1094	1095	1095	1094	1094	1093	1093	1093	1094	1093	1093	1094	1095	1098	1099	1098	1096	1095	1094	1094	1095	1097	1096	1095
29	1095	1095	1094	1094	1091	1088	1088	1088	1088	1088	1089	1089	1089	1093	1094	1097	1098	1095	1095	1095	1094	1094	1094	1094	1092
30	1088	1088	1087	1088	1089	1088	1087	1088	1088	1088	1090	1093	1093	1093	1094	1099	1102	1099	1099	1099	1100	1100	1099	1096	1093
Mean	1094	1093	1092	1091	*1090*	*1090*	1091	1091	1092	1094	1093	1094	1095	1099	1101	1103	*1104*	1104	1103	1101	1100	1098	1096	1095	1096

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

145 ESKDALEMUIR — NOVEMBER 1944

	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 12° +	Minimum 12° +	Range	Maximum 44,000γ +		Minimum 44,000γ +		Range			
	h. m.	γ	h. m.	γ	γ	h. m. ′	′ h. m.	′	h. m.	γ	h. m.	γ	γ				°A
1	22 59	557	11 0	504	53	12 47 25·1	16·8 22 35	8·3	15 3	1104	1091	23 15	13	1,0,1,1,1,0,0,2	6	0	83·3
2	22 35	540	10 45	507	33	11 45 24·2	17·8 22 28	6·4	15 3	1100	1088	11 40	12	0,2,1,2,1,1,1,1	9	0	83·3
3	6 41	539	12 26	493	46	15 26 27·6	18·5 9 18	9·1	17 47	1113	1088	10 30	25	0,0,1,2,3,2,1,0	9	1	83·3
4 d	22 44	552	12 10	465	87	13 44 29·3	15·2 23 0	14·1	16 22	1143	1090	6 33	53	2,2,2,2,3,3,2,3	19	1	83·2
5 d	21 48	*580*	15 10	472	*108*	3 30 27·6	*−0·9* 21 40	28·5	19 12	1146	1061	22 0	85	2,4,3,2,2,4,4,5	26	2	83·1
6 d	19 32	534	14 1	476	58	13 45 27·7	9·7 0 1	18·0	14 18	1124	*1058*	4 59	66	3,3,3,2,3,1,1,1	17	1	83·2
7	21 40	531	15 30	499	32	12 32 23·4	12·5 21 57	10·9	15 10	1112	1093	11 0	19	1,0,1,0,2,2,2,2	10	0	83·2
8	2 0	539	10 3	507	32	11 17 25·9	16·3 2 57	9·6	15 32	1101	1081	2 43	20	2,2,2,1,1,0,0,1	9	0	83·1
9	21 28	542	15 5	515	27	2 48 23·1	9·7 20 20	13·4	20 22	1105	1086	3 12	19	2,1,2,1,1,0,3,1	11	0	83·1
10 d	7 53	551	16 46	476	75	18 5 28·1	11·6 16 52	16·5	17 2	1138	1087	7 21	51	0,1,2,2,3,4,3,0	15	1	83·1
11	16 29	534	17 22	507	27	12 8 23·7	16·1 17 38	7·6	17 40	1106	1094	4 55	12	0,1,0,1,1,2,1,0	6	0	83·0
12	6 38	539	10 55	518	21	12 20 23·4	16·9 8 44	6·5	14 0	1101	1093	1 50	8	1,0,1,1,0,0,0,0	3	0	83·0
13 q	13 2	539	10 9	523	*16*	12 19 22·8	17·8 21 33	5·0	14 0	1098	1092	5 40	*6*	0,0,0,1,1,0,0,0	2	0	83·0
14	22 46	549	17 59	511	38	12 20 23·3	15·1 23 2	8·2	18 22	1107	1087	6 10	20	0,0,0,0,1,2,2,2	7	0	82·9
15 q	22 3	542	0 35	519	23	12 15 22·7	15·7 0 1	7·0	13 40	1100	1084	10 30	16	2,1,0,1,1,0,0,2	7	0	82·9
16	5 25	543	11 43	517	26	12 20 23·2	17·6 0 1	5·6	14 40	1101	1087	6 20	14	1,2,1,1,1,0,0,0	6	0	82·9
17	24 0	543	10 55	514	29	13 8 22·9	13·4 23 56	9·5	14 39	1100	1092	7 40	8	0,0,0,1,1,0,0,2	4	0	82·7
18	0 5	546	15 15	504	42	15 1 26·7	12·3 0 20	14·4	15 38	1107	1077	1 12	30	3,1,1,1,2,2,1,1	12	0	82·7
19	4 58	551	15 20	511	40	2 43 27·3	15·9 20 7	11·4	19 10	1101	1081	3 1	20	3,2,1,1,2,2,2,1	14	1	82·7
20 d	5 8	567	17 20	*464*	103	14 22 *32·2*	3·2 22 43	*29·0*	15 45	*1173*	1071	5 10	*102*	1,3,2,2,3,4,3,4	22	1	82·7
21	21 25	529	0 1	500	29	13 22 21·3	16·1 0 2	5·2	15 20	1105	1093	10 10	12	2,0,0,1,0,0,0,1	4	0	82·6
22	22 29	535	16 22	505	30	13 8 21·5	16·9 22 53	4·6	16 40	1107	1093	12 3	14	0,0,0,1,1,2,1,1	6	0	82·6
23	5 45	539	12 15	511	28	1 52 22·5	17·3 22 18	5·2	18 20	1107	1087	2 25	20	2,1,1,1,1,1,2,1	10	0	82·6
24 q	22 5	537	10 52	516	21	13 0 21·4	17·8 6 35	3·6	0 55	1098	1089	11 20	9	0,1,1,0,0,0,0,1	3	0	82·6
25 q	7 30	539	11 10	523	*16*	13 49 22·2	18·7 8 50	*3·5*	0 1	1095	1088	13 50	7	0,0,0,0,0,0,1,0	1	0	82·4
26	1 13	550	9 3	513	37	1 9) 12 59)	11·2 1 55	11·9	14 46	1102	1076	1 45	26	3,1,1,1,1,1,0,1	9	0	82·6
27 q	20 39	539	11 12	515	24	13 26 22·5	17·1 7 24	5·4	12 20	1101	1087	3 33	14	0,1,1,0,1,0,0,0	3	0	82·4
28	20 10	553	10 5	518	35	13 0 21·4	17·7 22 46	3·7	16 0	1101	1091	11 17	10	1,0,0,1,0,0,2,1	5	0	82·4
29	6 56	547	11 48	520	27	15 9 22·0	17·9 23 19	4·1	16 20	1099	1087	7 10	12	0,1,0,1,1,0,0,1	4	0	82·4
30	0 14	561	16 3	507	54	14 37 26·0	14·3 21 32	11·7	16 15	1105	1085	2 2	20	3,1,1,0,1,2,1,2	11	0	82·4
Mean	− −	545	− −	504	41	− − 24·5	14·5 − −	9·9	− −	1110	1085	− −	25	1·1	9·0	0·27	82·8

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.

146 ESKDALEMUIR (H) — 16,000γ (0·16 C.G.S. unit) + — DECEMBER 1944

	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	527	531	529	530	535	538	538	534	537	534	530	526	522	519	522	506	511	514	522	517	506	522	523	526	525
2	536	538	526	526	533	535	538	537	523	513	506	514	523	526	525	520	487	495	506	507	510	515	514	519	520
3	521	526	510	518	528	534	518	529	531	526	519	522	524	514	518	522	526	522	526	530	530	526	533	529	524
4	522	526	528	526	521	529	534	533	526	526	526	526	528	530	526	526	527	527	528	520	522	523	524	519	526
5	526	526	523	533	534	533	536	534	531	518	522	518	519	521	518	518	527	533	533	526	522	523	522	523	526
6	523	515	514	522	528	530	533	527	530	526	530	530	526	525	522	510	513	519	526	526	519	523	526	527	524
7 q	530	529	523	526	530	533	534	533	530	530	530	528	524	523	524	527	530	532	533	530	528	530	529	533	529
8	530	530	531	534	536	537	540	539	542	539	537	533	527	523	522	524	527	528	530	533	536	535	530	526	532
9	526	526	519	525	533	537	533	534	534	534	529	526	526	527	530	533	528	528	526	523	531	530	530	526	529
10 q	529	519	518	519	523	523	526	528	527	530	530	530	528	531	532	534	536	533	531	534	530	530	530	528	528
11 q	526	526	529	531	530	534	536	534	529	527	529	526	522	525	528	530	530	535	537	537	535	534	533	531	531
12	527	533	527	530	537	539	542	541	542	541	534	533	534	536	538	539	541	542	539	530	532	534	530	530	535
13 d	530	527	530	537	542	538	546	546	542	540	532	530	533	529	519	522	479	491	484	501	507	508	533	509	523
14	503	511	521	522	544	537	522	506	494	502	507	501	494	502	491	498	510	514	517	520	522	519	518	519	512
15	523	522	519	521	523	525	527	524	522	518	521	520	519	518	518	517	522	526	530	533	529	525	545	533	524
16 d	530	527	531	534	541	557	549	546	541	546	558	506	522	538	518	755	846	522	425	453	451	455	459	467	*537*
17 d	468	471	469	470	475	486	468	431	420	428	444	453	475	484	483	483	475	495	440	467	471	468	471	503	*467*
18 d	472	475	480	479	475	472	490	483	478	486	483	468	483	483	491	494	500	495	495	506	519	509	503	499	488
19	498	500	496	498	504	507	495	499	501	497	504	506	503	500	499	500	503	506	506	508	510	514	501	499	502
20	498	503	502	505	503	503	500	503	503	504	503	501	506	509	514	510	506	514	514	499	506	509	514	529	507
21	513	489	498	497	510	514	515	516	510	509	506	511	513	514	515	515	514	506	515	513	515	514	510	514	510
22	517	514	506	510	514	514	514	515	513	514	517	518	518	514	511	519	510	514	514	510	506	506	503	510	513
23	499	506	506	507	511	512	518	519	525	517	519	515	518	519	515	511	515	517	517	518	522	522	517	513	515
24 q	512	512	514	514	515	518	518	518	517	519	519	519	518	517	514	514	518	519	515	519	519	518	515	512	516
25 q	510	509	507	510	511	513	514	513	513	518	526	527	528	526	522	519	518	521	524	524	523	521	517	512	518
26	512	512	514	514	516	518	514	510	508	518	530	536	537	544	534	533	538	534	522	521	510	523	526	533	523
27 d	523	514	526	530	537	540	537	525	523	513	503	491	489	503	483	490	454	431	435	439	420	439	428	480	490
28	498	475	498	502	504	506	517	517	514	506	504	510	517	522	518	498	498	498	504	502	505	506	505	505	505
29	506	508	513	517	525	529	529	517	514	505	512	505	505	505	504	502	503	494	494	504	490	501	505	503	508
30	501	505	498	503	518	525	525	524	509	510	509	505	502	505	511	517	517	514	511	511	505	485	517	502	510
31	504	505	511	514	522	527	530	525	517	517	517	517	521	520	510	503	504	509	503	504	511	503	486	496	511
Mean	514	513	513	516	521	*524*	524	521	518	517	517	515	516	518	515	522	523	514	*510*	512	511	512	513	515	516

503 at 0-1h. January 1, 1945

MAGNETIC DECLINATION (WEST)

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

147 ESKDALEMUIR (D) — 12° + — DECEMBER 1944

	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	18·7	18·7	20·4	19·6	19·5	19·6	19·1	19·1	18·8	18·9	19·8	22·2	23·2	23·3	24·2	22·7	23·1	20·7	20·1	18·8	17·3	16·8	17·9	17·9	20·0
2	18·9	17·0	18·2	19·1	19·3	19·0	20·6	20·5	22·0	22·1	24·4	25·8	23·9	22·3	21·4	20·7	19·6	19·7	19·6	5·2	5·2	16·3	16·1	17·9	18·9
3	18·6	20·1	18·0	21·5	19·7	19·6	20·6	20·2	18·7	19·7	19·7	20·7	21·2	20·2	19·3	19·8	20·3	20·1	19·0	18·5	17·3	18·0	15·6	16·0	19·3
4	17·8	20·4	19·1	18·7	21·4	19·7	18·6	19·5	18·8	19·6	20·3	21·5	21·7	21·4	20·7	20·2	19·7	19·6	19·5	17·5	16·9	17·8	16·7	17·7	19·4
5	17·8	18·6	19·8	20·4	18·6	18·7	19·1	19·4	19·7	19·6	20·6	22·1	22·4	23·2	24·1	21·6	20·6	19·8	19·7	19·6	18·7	18·7	14·2	13·1	19·6
6	15·0	11·5	13·3	16·9	17·0	18·5	19·5	18·9	19·0	19·9	21·8	21·5	22·2	21·2	20·7	20·6	21·3	20·7	19·8	19·7	17·1	17·8	17·7	17·7	18·7
7 q	19·2	18·7	18·6	18·8	19·1	19·4	19·3	19·0	18·9	18·8	19·0	19·5	19·6	19·7	19·6	19·5	19·4	19·0	19·0	19·1	19·0	18·6	18·3	18·8	19·1
8	18·7	18·8	18·9	19·3	19·4	19·6	19·6	20·0	19·6	18·6	19·7	20·3	20·7	21·5	22·3	22·7	22·1	22·7	21·4	19·7	18·9	18·1	18·0	15·5	19·8
9	14·5	16·7	16·5	20·7	17·7	17·6	18·9	18·7	18·6	18·9	19·4	20·1	20·6	20·7	21·4	20·7	21·3	20·6	21·4	20·4	18·8	18·8	18·7	17·9	19·1
10 q	15·8	15·1	17·5	17·7	18·7	18·7	18·7	18·6	18·5	19·4	20·3	21·1	21·6	21·5	21·1	20·5	20·2	20·6	20·6	19·8	19·1	18·3	18·6	18·2	19·2
11 q	18·0	18·8	20·9	19·8	20·1	19·2	18·7	18·2	18·6	18·4	19·1	21·7	22·2	21·6	20·9	20·9	20·2	19·7	19·5	18·9	18·7	18·6	18·6	18·6	19·6
12	18·6	18·0	17·7	17·8	17·3	18·0	17·9	18·6	18·3	18·1	18·7	19·8	20·9	21·5	21·4	20·7	19·9	19·7	20·1	19·1	18·5	18·4	18·3	18·0	19·0
13 d	18·5	19·0	19·9	18·9	19·4	19·9	20·7	19·6	18·9	18·7	19·5	21·5	23·8	27·4	25·5	25·5	23·5	24·8	19·5	20·2	17·0	15·3	12·1	14·2	*20·1*
14	16·5	17·6	20·2	21·4	18·6	24·0	25·2	24·3	21·2	18·7	18·6	20·7	21·7	21·0	20·5	20·3	19·8	19·4	17·4	17·9	17·9	18·0	18·0	18·0	19·9
15	18·2	18·3	18·7	18·6	18·7	18·7	19·6	18·8	18·0	17·8	18·7	19·9	20·4	20·4	19·9	19·6	19·1	19·2	18·5	18·2	18·3	17·9	14·0	12·9	18·4
16 d	17·0	19·0	20·5	20·4	19·1	19·6	19·5	17·9	17·8	18·9	16·9	5·5	3·1	8·7	12·0	41·2	26·8	28·1	23·1	17·9	18·9	16·9	15·9	16·7	18·4
17 d	17·2	18·3	17·7	17·2	20·6	30·9	20·1	24·1	28·5	24·7	22·8	23·0	23·1	21·4	22·3	15·6	25·4	5·8	16·2	11·1	7·5	8·5	10·6	14·2	18·6
18 d	12·7	19·7	18·8	20·0	19·4	21·1	23·0	21·5	17·9	17·3	17·8	18·6	19·6	20·1	19·5	17·9	16·7	16·0	18·7	17·3	17·5	17·5	16·1	16·2	18·4
19	17·2	17·0	16·9	18·7	18·2	17·5	17·7	17·5	17·4	18·2	18·7	19·6	20·4	20·4	19·5	19·3	16·6	18·6	19·6	18·8	15·0	15·4	14·8	15·5	17·9
20	17·6	18·3	18·0	17·8	18·7	18·4	17·8	17·3	17·5	18·3	19·6	19·6	20·6	20·7	20·1	20·4	19·3	19·0	20·3	18·0	17·9	17·6	15·8	17·6	18·6
21	17·6	12·4	13·2	16·2	18·0	16·3	17·5	17·4	17·3	18·3	19·5	20·7	22·3	22·8	21·9	20·1	20·3	20·4	20·6	18·9	18·1	17·8	17·0	18·5	18·5
22	18·7	17·7	18·1	17·8	18·1	18·2	17·9	18·0	18·3	19·0	19·4	20·5	22·7	21·3	20·5	20·2	20·6	18·8	19·6	17·8	13·8	18·9	17·2	16·0	18·7
23	16·8	18·7	18·5	18·7	17·7	18·1	18·3	18·6	19·7	19·5	20·4	21·5	22·0	20·9	19·9	19·6	19·1	19·3	18·9	17·9	18·2	16·7	17·1	18·7	19·0
24 q	18·4	17·8	18·0	17·8	17·9	17·9	17·8	17·7	18·1	19·6	20·6	20·5	21·2	20·8	19·9	20·5	19·5	19·5	18·9	18·9	18·6	17·8	17·9	17·9	18·9
25 q	17·9	17·9	17·2	17·6	17·1	17·6	17·9	17·9	18·6	19·6	20·4	19·8	20·3	19·6	18·8	19·2	19·2	19·4	19·5	18·7	18·1	18·6	17·9	17·6	18·6
26	16·8	17·0	17·0	16·9	17·6	18·3	17·7	17·8	18·3	19·4	20·6	23·4	22·2	22·7	22·6	22·9	20·5	20·4	19·6	19·4	18·6	17·8	18·6	19·1	19·4
27 d	17·8	18·3	18·7	14·0	17·7	19·6	19·6	21·0	22·3	22·9	20·6	22·7	26·3	26·1	27·5	33·5	14·4	18·4	18·9	11·5	5·5	5·0	−0·4	−5·3	*17·4*
28	9·3	18·0	18·3	18·7	19·0	19·1	19·1	18·7	18·6	20·5	21·1	22·3	24·7	22·1	21·4	19·6	19·5	18·8	18·7	17·7	16·5	15·7	16·1	16·9	18·8
29	18·3	18·8	19·6	21·5	18·7	18·2	18·6	18·7	18·7	17·1	17·8	18·3	20·7	21·0	19·6	19·9	19·7	17·7	17·6	9·7	7·0	13·3	14·2	15·2	17·5
30	13·1	10·6	16·7	22·8	18·9	18·7	17·8	17·9	19·6	21·5	21·9	21·3	22·2	21·4	18·9	18·1	19·6	20·2	19·2	18·3	16·0	12·3	6·4	15·2	17·9
31	16·4	18·4	17·8	19·2	18·8	18·8	18·4	17·8	17·4	18·4	18·7	18·9	19·5	19·6	19·0	18·9	18·9	19·8	19·1	19·1	17·1	16·1	11·2	17·2	18·1
Mean	17·0	17·6	18·1	18·9	18·7	19·3	19·2	19·1	19·1	19·4	19·9	20·5	21·2	21·2	20·9	*21·4*	20·2	19·6	19·5	17·5	16·2	16·6	*15·5*	16·1	18·9

14·4 at 0-1h. January 1, 1945

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT

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

148 ESKDALEMUIR (V) — 44,000γ (0·44 C.G.S. unit) + — DECEMBER 1944

	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	1095	1093	1093	1093	1093	1090	1088	1088	1088	1089	1089	1090	1094	1099	1100	1113	1111	1110	1105	1103	1106	1101	1099	1097	1097
2	1093	1077	1078	1087	1088	1089	1089	1088	1089	1093	1093	1094	1095	1099	1103	1106	1118	1125	1120	1124	1111	1100	1100	1095	1098
3	1094	1088	1087	1089	1095	1094	1093	1093	1095	1093	1089	1089	1094	1101	1105	1102	1101	1101	1101	1099	1099	1099	1097	1093	1095
4	1093	1092	1089	1093	1093	1090	1092	1091	1093	1093	1091	1093	1094	1095	1099	1100	1099	1099	1099	1100	1099	1099	1098	1096	1095
5	1094	1093	1092	1087	1087	1089	1089	1090	1093	1096	1096	1097	1097	1099	1100	1101	1100	1099	1099	1100	1100	1100	1100	1094	1095
6	1087	1082	1084	1087	1089	1089	1089	1088	1088	1090	1090	1092	1094	1096	1100	1104	1105	1103	1101	1101	1102	1100	1098	1096	1094
7 q	1093	1090	1093	1094	1094	1094	1093	1093	1093	1093	1092	1093	1093	1094	1099	1099	1099	1098	1098	1096	1096	1095	1094	1093	1095
8	1094	1094	1093	1093	1093	1093	1093	1092	1090	1093	1089	1089	1093	1093	1094	1095	1099	1099	1099	1099	1096	1098	1099	1099	1095
9	1096	1090	1087	1082	1082	1086	1087	1088	1089	1090	1088	1088	1088	1087	1089	1093	1095	1096	1098	1101	1100	1101	1099	1099	1092
10 q	1094	1093	1092	1093	1093	1093	1093	1094	1095	1093	1089	1089	1091	1092	1094	1094	1095	1095	1096	1096	1098	1099	1096	1094	1094
11 q	1095	1094	1092	1090	1092	1092	1091	1092	1093	1093	1090	1092	1094	1094	1094	1091	1096	1095	1095	1095	1095	1095	1094	1094	1093
12	1094	1092	1090	1089	1088	1088	1088	1089	1088	1089	1091	1093	1093	1093	1093	1094	1093	1091	1092	1095	1095	1095	1095	1095	1092
13 d	1094	1093	1089	1089	1088	1086	1085	1087	1087	1087	1087	1086	1087	1090	1098	1101	1136	1143	1152	1133	1125	1117	1096	1083	1101
14	1088	1087	1081	1064	1034	1033	1045	1062	1075	1090	1094	1098	1102	1110	1116	1117	1113	1107	1106	1102	1100	1100	1100	1099	*1088*
15	1096	1096	1097	1096	1096	1095	1094	1093	1093	1092	1090	1093	1094	1098	1100	1103	1101	1100	1100	1098	1100	1104	1095	1091	1096
16 d	1089	1089	1089	1090	1089	1085	1084	1086	1087	1084	1082	1100	1107	1135	1310	1280	1451	1280	1197	1179	1154	1137	1128	1125	*1147*
17 d	1123	1119	1123	1124	1122	1088	1092	1101	1099	1101	1114	1123	1130	1135	1155	1195	1201	1200	1170	1159	1122	1124	1111	1077	1129
18 d	1095	1105	1106	1107	1108	1106	1102	1111	1118	1123	1123	1125	1128	1129	1130	1129	1129	1126	1124	1120	1114	1113	1114	1117	1117
19	1118	1117	1118	1116	1113	1112	1113	1112	1108	1107	1107	1111	1113	1117	1118	1119	1119	1118	1117	1115	1117	1112	1113	1117	1114
20	1117	1116	1118	1117	1117	1115	1113	1113	1112	1112	1112	1113	1113	1117	1117	1118	1117	1114	1116	1120	1119	1118	1116	1097	1115
21	1084	1102	1110	1111	1102	1105	1106	1106	1108	1112	1111	1106	1105	1112	1116	1117	1117	1119	1118	1119	1118	1116	1115	1112	1110
22	1106	1106	1107	1110	1111	1111	1111	1108	1107	1107	1106	1105	1106	1108	1110	1113	1113	1116	1113	1113	1123	1119	1123	1122	1111
23	1120	1116	1115	1113	1112	1111	1111	1110	1107	1111	1108	1108	1110	1113	1113	1113	1112	1112	1112	1113	1111	1111	1110	1110	1112
24 q	1111	1111	1108	1107	1107	1107	1107	1107	1106	1105	1105	1106	1106	1110	1108	1111	1111	1111	1112	1112	1111	1111	1111	1111	1109
25 q	1111	1111	1111	1109	1109	1108	1107	1107	1106	1106	1105	1107	1106	1108	1109	1111	1111	1109	1107	1107	1107	1110	1112	1112	1109
26	1112	1111	1110	1107	1106	1106	1105	1105	1105	1105	1101	1100	1104	1105	1107	1106	1105	1105	1107	1110	1111	1111	1107	1098	1106
27 d	1098	1094	1088	1088	1090	1093	1094	1096	1096	1101	1107	1110	1116	1128	1154	1213	1272	1220	1219	1208	1171	1130	1093	1053	1131
28	1029	1059	1090	1102	1104	1107	1108	1110	1112	1114	1117	1118	1117	1114	1116	1117	1119	1119	1118	1118	1116	1115	1115	1114	1107
29	1113	1112	1110	1106	1101	1101	1100	1102	1103	1113	1113	1113	1113	1116	1118	1119	1122	1125	1125	1123	1117	1113	1112	1110	1113
30	1102	1101	1101	1096	1099	1100	1102	1102	1105	1107	1107	1110	1110	1116	1121	1122	1117	1114	1113	1119	1120	1128	1121	1110	1110
31	1107	1107	1107	1107	1107	1107	1107	1107	1107	1106	1107	1107	1107	1112	1117	1119	1122	1119	1122	1121	1118	1117	1118	1107	1112
Mean	1098	1098	1098	1098	1097	*1096*	1096	1097	1098	1100	1099	1101	1103	1107	1116	1120	*1129*	1121	1118	1116	1112	1109	1106	1100	1105

1106 at 0-1h. January 1, 1945

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

149 ESKDALEMUIR — DECEMBER 1944

	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 12° +	Minimum 12° +	Range	Maximum 44,000γ +		Minimum 44,000γ +		Range			
	h. m.	γ	γ	h. m.	γ	h. m. ′	′	′	h. m.	γ	γ	h. m.	γ			°A
1	1 7	541	483	15 20	58	15 10 29·5	16·0	13·5	15 38	1118	1087	8 12	31	2,1,1,1,1,3,2,2	13	1	82·4
2	0 59	573	467	16 40	106	11 47 26·7	−9·1	35·8	17 1	1132	1075	2 10	57	3,2,2,2,2,3,5,2	21	1	82·4
3	22 55	557	503	13 45	54	3 19 23·3	12·5	10·8	14 35	1105	1082	2 5	23	2,2,2,1,2,1,2,3	15	1	82·5
4	7 19	538	511	19 20	27	4 38 23·1	14·9	8·2	19 36	1101	1087	2 10	14	2,2,1,1,2,0,2,1	11	0	82·5
5	6 30	538	506	24 0	32	14 17 24·6	9·0	15·6	15 15	1104	1087	3 40	17	1,1,0,2,2,1,1,3	11	0	82·5
6	6 22	537	504	0 3	33	12 22 22·5	9·3	13·2	16 0	1106	1079	1 4	27	3,2,1,1,1,1,2,1	12	0	82·5
7 q	18 9	537	519	13 30	18	12 16 19·8	17·5	*2·3*	15 40	1100	1089	1 32	11	1,0,0,1,0,0,0,1	3	0	82·5
8	8 30	543	519	14 30	24	17 30 23·4	13·4	10·0	23 2	1101	1089	10 50	12	0,0,1,0,1,1,1,2	6	0	82·5
9	24 0	544	511	2 55	33	16 33 22·2	13·4	8·8	20 15	1102	1080	3 56	22	2,2,1,1,0,1,2,2	11	0	82·5
10 q	0 1	544	513	2 15	31	11 59 22·4	14·5	7·9	21 30	1100	1088	10 30	12	2,1,1,1,1,1,1,0	8	0	82·5
11 q	18 40	538	519	12 19	19	12 30 22·4	17·8	4·6	15 38	1098	1089	10 53	9	1,1,0,1,1,0,0,0	4	0	82·5
12	8 17) 17 8)	545	523	19 40	22	13 33 21·9	16·7	5·2	19 43	1097	1087	4 42	10	1,1,1,1,0,0,1,1	6	0	82·5
13 d	22 45	573	465	16 20	108	13 15 28·6	7·0	21·6	18 11	1158	1081	22 58	77	1,1,2,2,2,4,3,4	19	1	82·4
14	4 46	554	483	12 37	71	6 9 27·1	13·4	13·7	15 1	1119	999	4 51	120	2,3,3,2,2,2,0,0	14	1	82·4
15	22 45	562	513	15 36	49	12 49 20·7	5·2	15·5	22 5	1107	1089	23 55	18	1,0,1,1,1,1,3,4	12	1	82·4
16 d	16 39	*1694*	*369*	17 10	*1325*	15 45 *121·3*	*−23·6*	*144·9*	16 38	*1640*	*937*	15 38	*703*	3,3,3,4,7,9,4,3	36	2	82·4
17 d	17 3	630	402	7 59	228	5 18 38·4	−10·1	48·5	17 4	1273	1059	23 5	214	1,4,4,4,5,6,4,5	33	2	82·4
18 d	20 9	526	448	0 50	78	5 54 25·8	10·4	15·4	14 30	1131	1083	0 1	48	3,3,3,2,2,3,3,3	22	1	82·4
19	21 16	527	491	6 53) 9 13)	36	12 25 20·9	12·3	8·6	15 48	1123	1105	9 51	18	0,1,2,2,2,2,3,2	14	0	82·4
20	23 29	546	488	6 10	58	18 36 21·4	13·3	8·1	19 55	1124	1092	24 0	32	1,1,2,1,0,2,2,3	12	1	82·4
21	7 26	524	479	1 17	45	13 26 23·9	10·6	13·3	17 40	1122	1081	0 35	41	3,2,1,1,1,2,1,2	13	1	82·6
22	23 39	526	486	20 0	40	12 50 23·3	7·7	15·6	20 19	1126	1103	11 37	23	1,0,1,1,2,2,3,3	13	1	82·6
23	22 3	530	491	0 4	39	12 17 22·5	12·0	10·5	0 4	1123	1106	8 50	17	2,1,2,1,1,1,1,2	11	0	82·6
24 q	17 22	523	510	14 6	*13*	12 51 21·4	17·2	4·2	18 14	1113	1105	10 15	*8*	0,0,1,1,1,1,1,1	6	0	82·6
25 q	12 38	530	506	2 30	24	10 56 21·3	15·9	5·4	23 20	1113	1105	10 40	*8*	1,0,1,2,1,1,0,1	7	0	82·5
26	17 13	553	505	20 50	48	11 42 24·0	14·8	9·2	21 0	1116	1095	24 0	21	0,0,0,3,2,2,2,3	12	1	82·5
27 d	23 49	546	394	20 15	152	15 38 38·7	−10·9	49·6	16 28	1349	1034	24 0	315	3,3,2,3,3,6,4,5	29	2	82·5
28	0 26	533	455	0 51	78	12 40 26·0	4·7	21·3	16 50	1123	1026	0 32	97	4,1,1,2,2,2,1,1	14	1	82·5
29	19 30	535	478	19 0	57	3 37 23·5	2·8	20·7	19 10	1130	1099	6 35	31	1,2,2,2,1,2,4,2	16	1	82·6
30	5 44	530	453	21 45	77	3 10 25·9	1·4	24·5	21 50	1131	1093	3 48	38	4,3,2,2,3,3,3,4	24	1	82·6
31	6 24	537	474	23 4	63	17 40 20·7	5·2	15·5	18 50	1123	1098	23 52	25	1,1,1,1,2,1,2,4	13	1	82·6
Mean	− −	581	483	− −	98	− − 27·7	8·2	19·4	− −	1145	1078	− −	68	1·8	14·2	0·68	82·5

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

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)

150 ESKDALEMUIR 1944

NORTH COMPONENT

	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
Jan.	+1·9	−0·4	−1·7	+1·8	+3·9	+4·4	+7·2	*+7·2*	+4·2	−1·9	−6·7	−6·7	*−6·8*	−3·6	−2·9	−4·5	−3·8	−2·3	−0·6	−1·7	+0·5	+1·9	+6·4	+3·9
Feb.	+3·2	−0·2	+0·4	+1·1	+6·6	+5·6	+6·3	+5·2	+3·6	−2·6	−9·7	−10·3	*−12·6*	−11·6	−7·4	−4·1	−0·8	−1·4	+2·3	+3·4	+5·8	*+8·5*	+4·2	+4·4
Mar.	+4·6	+6·0	+1·3	−0·8	+1·0	+4·5	+4·7	+1·6	−3·7	−14·2	−18·9	*−20·9*	−20·2	−9·9	−5·9	−1·3	+3·0	+4·7	+7·0	+12·1	+8·7	+10·5	*+13·7*	+12·6
Apr.	+7·9	+7·5	+5·3	+7·8	+5·4	+9·3	+5·1	−6·5	−13·8	−24·6	*−31·8*	−29·7	−22·3	−15·0	−7·2	+0·3	+5·4	+12·1	+13·4	+13·5	+13·9	+12·7	*+16·5*	+15·0
May	+9·1	+5·2	+3·3	+4·2	+3·7	+1·5	−0·7	−5·8	−10·0	−17·3	−23·1	*−26·3*	−20·5	−15·5	−7·4	+2·4	+7·7	*+16·2*	+15·0	+15·0	+12·9	+12·8	+10·0	+7·6
June	+5·7	+2·2	+2·3	+4·9	+5·6	+5·6	+1·3	−7·5	−13·4	−21·2	*−25·0*	−23·6	−20·0	−14·2	−4·6	+1·2	+6·8	+12·0	+15·8	*+16·5*	+14·6	+12·7	+11·1	+11·0
July	+7·4	+5·3	+3·9	+5·8	+6·4	+5·4	+0·8	−3·9	−9·7	−19·6	−24·8	*−26·6*	−24·0	−16·9	−7·7	−1·9	+4·5	+11·1	+15·7	*+17·8*	+16·1	+13·1	+11·9	+9·8
Aug.	+8·9	+9·8	+2·8	+7·5	+7·5	+6·6	+0·7	−3·8	−11·6	−20·6	−24·9	*−25·5*	−21·5	−15·8	−8·1	−1·4	+2·9	+6·3	+11·8	*+15·8*	+15·0	+13·7	+12·6	+11·5
Sept.	+10·5	+5·6	+3·5	+5·2	+5·1	+7·2	+4·6	−0·1	−7·0	−16·1	−20·9	*−23·0*	−18·9	−13·0	−10·5	−3·6	+1·5	+6·3	+9·0	*+12·2*	+9·4	+11·8	+10·6	+10·7
Oct.	+2·2	+1·3	+0·6	+2·2	+5·4	+7·1	+5·1	+4·8	−0·4	−11·0	−16·5	*−18·6*	−13·3	−6·4	−1·9	+1·1	+2·4	+1·9	+1·8	+4·3	+8·2	+7·1	*+10·1*	+2·4
Nov.	+2·3	+2·2	+1·6	+2·9	+5·6	*+8·2*	*+8·2*	+5·4	+0·6	−3·4	−8·9	*−9·9*	*−9·9*	−7·8	−6·0	−5·6	−2·1	−0·4	−0·1	+1·5	+2·7	+5·1	+4·5	+3·1
Dec.	−0·2	−1·8	−2·2	0·0	+4·8	*+7·0*	+6·9	+3·8	+0·9	−0·3	−0·2	−3·5	−2·4	−1·0	−3·1	+3·2	+5·1	−3·3	*−7·1*	−3·1	−2·6	−1·9	−0·1	+1·1
Year	+5·3	+3·6	+1·7	+3·6	+5·1	+6·0	+4·2	+0·1	−5·0	−12·7	−17·6	*−18·7*	−16·1	−10·9	−6·1	−1·2	+2·7	+5·3	+7·0	+8·9	+8·8	+9·1	*+9·3*	+7·8
Winter	+1·8	−0·1	−0·4	+1·5	+5·3	+6·3	*+7·2*	+5·4	+2·3	−2·1	−6·4	−7·6	*−7·9*	−6·0	−4·8	−2·8	−0·4	−1·8	−1·4	+0·1	+1·6	+3·4	+3·8	+3·2
Equinox	+6·3	+5·1	+2·7	+3·7	+4·2	+6·9	+4·9	0·0	−6·2	−16·5	−22·0	*−23·0*	−18·7	−11·1	−6·4	−0·9	+3·1	+6·2	+7·8	+10·5	+10·0	*+12·8*	+10·2	
Summer	+7·8	+5·6	+3·0	+5·6	+5·8	+4·8	+0·5	−5·3	−11·2	−19·7	−24·5	*−25·4*	−21·5	−15·6	−7·0	+0·1	+5·5	+11·4	+14·6	*+16·3*	+14·7	+13·1	+11·4	+10·0

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	−0·3	−3·4	+0·1	−0·3	−0·9	+3·3	+4·1	+4·8	+2·6	+3·0	+7·0	+9·1	+12·6	*+15·1*	+11·3	+6·4	+3·9	−1·9	−3·5	−6·8	−16·0	−14·7	*−16·4*	−13·2
Feb.	−7·5	−6·8	−2·9	−3·3	−3·5	+1·1	+3·3	+2·7	−0·2	−0·9	+2·8	+8·3	+12·9	*+15·0*	+13·0	+6·8	+4·1	+0·4	−1·9	−7·3	−8·5	−8·6	*−10·1*	−8·7
Mar.	−8·8	−8·1	−7·1	−5·5	−1·6	+1·5	−1·6	−4·7	−6·9	−6·2	−0·3	+9·7	+17·0	*+23·0*	+20·5	+13·0	+9·3	+6·1	−5·7	−5·9	−7·0	−8·5	*−12·7*	−9·7
Apr.	−5·2	−1·9	−2·1	−7·2	−7·4	−6·8	−8·9	−9·7	*−14·9*	−14·3	−6·2	+5·3	+18·1	*+25·5*	+23·1	+18·4	+14·0	+6·5	+3·0	−5·5	−3·4	−5·7	−7·3	−7·6
May	−2·0	−3·6	−7·1	−9·8	−13·7	−16·6	−18·5	*−20·2*	−19·7	−12·7	−1·8	+8·7	+18·5	*+21·6*	+21·1	+19·7	+15·9	+11·7	+7·6	+4·1	+2·2	−0·9	−1·9	−2·5
June	−6·5	−5·5	−4·8	−10·7	−15·9	−20·9	−24·8	*−25·7*	−24·0	−16·5	−5·1	+8·0	+19·8	+25·5	*+26·9*	+23·6	+17·0	+14·4	+12·2	+9·1	+5·9	+1·7	−0·5	−3·3
July	−5·1	−5·6	−5·5	−8·1	−13·8	−19·5	−23·8	*−24·1*	−24·0	−17·6	−6·4	+6·9	+18·7	+25·8	*+26·8*	+22·5	+17·2	+13·5	+9·5	+7·6	+4·5	+1·7	+0·7	−1·9
Aug.	−5·2	−7·7	−8·3	−9·7	−15·8	−18·9	*−19·5*	−16·5	−16·4	−10·8	−1·4	+12·6	+23·9	*+26·9*	+24·0	+18·1	+12·7	+7·9	+7·0	+3·7	+1·0	−0·7	−2·5	−4·5
Sept.	−6·6	−7·4	−6·0	−9·1	−8·8	−8·5	−9·8	−13·8	*−15·4*	−10·9	−1·6	+11·6	+22·7	*+26·6*	+23·9	+16·1	+12·1	+8·1	+6·6	−0·7	−1·7	−8·1	−10·0	−9·5
Oct.	−4·5	−6·1	−5·2	−1·7	−2·8	−2·9	−4·0	−7·6	−11·3	−7·9	+2·3	+14·5	+20·3	*+22·1*	+20·2	+14·7	+7·7	+5·7	+1·2	−5·9	−8·3	−10·3	−14·7	*−15·5*
Nov.	−6·9	−4·0	−2·1	−0·3	−0·4	−1·3	−1·5	−2·3	−2·6	−2·8	+0·7	+7·6	+11·8	*+13·5*	+11·5	+7·3	+4·4	+1·9	+0·7	−2·1	−5·0	−7·7	*−10·9*	−9·5
Dec.	−9·1	−6·6	−3·9	−0·1	+0·3	+3·8	+3·1	+2·2	+1·7	+2·4	+5·0	+7·2	+10·9	+11·2	+9·1	*+13·1*	+7·7	+2·8	+1·5	−7·2	−13·4	−11·7	*−16·7*	−13·2
Year	−6·2	−5·6	−4·6	−5·5	−7·0	−7·1	−8·5	−9·6	*−10·9*	−7·9	−0·4	+9·1	+17·2	*+21·0*	+19·3	+14·9	+10·5	+6·4	+3·2	−1·4	−4·1	−6·1	−8·6	−8·3
Winter	−7·4	−5·2	−2·2	−1·0	−1·1	+1·7	+2·3	+1·9	+0·3	+0·4	+3·9	+8·1	+12·0	*+13·7*	+11·3	+8·4	+5·0	+0·8	−0·8	−5·8	−10·7	−10·7	*−13·5*	−11·1
Equinox	−6·3	−5·9	−5·1	−5·9	−5·2	−4·2	−6·1	−8·9	*−12·1*	−9·8	−1·5	+10·3	+19·5	*+24·3*	+22·0	+15·5	+10·8	+6·6	+1·3	−4·5	−5·1	−8·2	−11·1	−10·5
Summer	−4·7	−5·6	−6·4	−9·6	−14·8	−19·0	−21·7	*−21·7*	−21·0	−14·4	−3·7	+9·0	+20·2	*+24·9*	+24·7	+21·0	+15·7	+11·9	+9·1	+6·2	+3·4	+0·5	−1·0	−3·1

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.	−8·0	*−10·2*	−8·0	−7·5	−6·9	−6·9	−6·6	−6·7	−5·3	−3·2	−2·1	−0·8	−0·4	+1·7	+6·1	+10·4	+10·9	*+11·7*	+10·5	+9·9	+9·6	+5·1	+0·6	−3·9
Feb.	−3·7	−5·4	−6·8	−5·8	−7·1	−8·2	*−8·3*	−7·9	−5·3	−2·7	−2·2	−2·1	−0·3	+4·8	+8·7	*+10·6*	+10·3	+9·3	+8·2	+7·5	+4·7	+1·8	+0·9	−1·0
Mar.	−10·3	−13·9	*−14·2*	−13·1	−13·2	−10·7	−7·0	−3·6	−2·3	−1·9	−2·6	−3·8	−2·8	+0·8	+7·4	+14·6	+16·0	+15·7	*+16·8*	+13·3	+10·2	+7·4	+1·9	−4·7
Apr.	−7·7	−11·4	*−11·9*	−8·9	−6·1	−4·7	−3·5	−2·9	−4·1	−3·2	−4·1	−4·6	−6·9	−2·8	+3·2	+7·9	+11·5	+14·9	+17·0	*+17·1*	+11·7	+5·5	−0·2	−5·8
May	−6·9	−7·9	−5·7	−2·8	−0·2	−0·6	−2·2	−3·0	−5·0	−8·4	−11·5	*−12·2*	−9·7	−2·6	+3·8	+7·6	+12·3	+13·9	*+14·6*	+12·7	+9·3	+5·1	+1·9	−2·5
June	−2·5	−2·9	−2·2	−1·8	−1·2	−1·5	−2·2	−2·2	−3·1	−6·8	−10·9	*−13·3*	−11·6	−7·3	−3·0	+3·6	+10·2	+12·8	*+13·1*	+12·0	+10·3	+7·4	+4·0	−0·9
July	0·0	−0·6	−1·1	−1·3	+0·3	+0·1	−0·4	−1·1	−1·4	−5·4	−9·2	*−11·8*	−10·7	−7·0	−2·8	+1·6	+7·0	+9·0	*+9·5*	+8·8	+7·2	+5·3	+3·1	+0·9
Aug.	−4·5	−7·6	−9·9	−9·7	−5·7	−2·5	−1·5	−2·5	−2·0	−4·5	−7·0	−9·7	−8·7	−3·4	+3·1	+8·2	+11·7	*+13·1*	+11·6	+10·7	+9·4	+6·4	+4·1	+0·9
Sept.	−6·3	−8·6	−7·3	−5·5	−3·1	−2·2	−0·5	+0·5	+0·5	−2·6	−5·9	*−8·7*	−8·1	−3·3	+3·1	+8·2	+9·1	+8·9	+8·4	+9·2	+7·7	+6·8	+2·8	−3·1
Oct.	*−14·2*	−12·1	−10·8	−9·9	−5·0	−2·5	−0·6	+0·7	+0·7	0 0	−3·4	−3·5	−1·5	+1·4	+5·0	+8·6	+11·8	+11·6	*+12·0*	+11·9	+7·8	+4·3	−3·8	−8·5
Nov.	−1·8	−3·0	−3·9	−5·1	*−5·7*	*−5·7*	−5·4	−5·2	−3·8	−2·3	−2·9	−2·3	−0·5	+2·5	+5·2	+7·4	*+8·2*	+7·6	+6·8	+5·1	+3·8	+2·0	+0·2	−1·2
Dec.	−7·7	−7·8	−7·3	−7·6	−8·7	*−10·0*	−9·7	−8·4	−7·7	−5·9	−6·1	−4·3	−2·6	+1·4	+10·6	+14·3	*+23·5*	+15·9	+12·3	+10·6	+6·4	+3·8	+0·2	−5·2
Year	−6·1	*−7·6*	−7·4	−6·6	−5·2	−4·6	−4·0	−3·5	−3·2	−3·9	−5·7	−6·4	−5·3	−1·1	+4·2	+8·6	+11·9	*+12·0*	+11·7	+10·7	+8·2	+5·1	+1·3	−2·9
Winter	−5·3	−6·6	−6·5	−6·5	−7·1	*−7·7*	−7·5	−7·1	−5·5	−3·5	−3·3	−2·4	−0·9	+2·6	+7·7	+10·7	*+13·2*	+11·1	+9·5	+8·3	+6·1	+3·2	+0·5	−2·8
Equinox	−9·6	*−11·5*	−11·1	−9·3	−6·9	−5·0	−2·9	−1·3	−1·3	−1·9	−4·0	−5·1	−4·8	−1·0	+4·7	+9·8	+12·1	+12·8	*+13·5*	+12·9	+9·3	+6·0	+0·2	−5·5
Summer	−3·5	−4·7	−4·7	−3·9	−1·7	−1·1	−1·6	−2·2	−2·9	−6·3	−9·7	*−11·7*	−10·2	−5·1	+0·3	+5·3	+10·3	*+12·2*	*+12·2*	+11·1	+9·1	+6·1	+3·3	−0·4

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.	-1·37	-0·67	+0·09	-0·15	-0·36	+0·47	+0·51	+0·66	+0·34	+0·70	+1·73	+2·15	+2·87	*+3·23*	+2·44	+1·50	+0·96	-0·28	-0·68	-1·30	-3·27	-3·08	*-3·63*	-2·86
Feb.	-1·67	-1·38	-0·61	-0·73	-1·00	-0·03	+0·38	+0·32	-0·20	-0·07	+1·00	+2·16	+3·18	*+3·56*	+2·97	+1·56	+0·87	+0·15	-0·49	-1·63	-1·99	-2·13	*-2·25*	-1·97
Mar.	-1·99	-1·91	-1·50	-1·09	-0·37	+0·11	-0·53	-1·02	-1·24	-0·63	+0·78	+2·91	+4·36	*+5·11*	+4·44	+2·71	+1·76	+1·03	-1·46	-1·74	-1·81	-2·20	*-3·19*	-2·53
Apr.	-1·42	-0·72	-0·66	-1·81	-1·75	-1·79	-2·05	-1·69	*-2·41*	-1·80	+0·17	+2·41	+4·67	*+5·87*	+5·03	+3·73	+2·61	+0·79	+0·02	-1·73	-1·31	-1·73	-2·22	-2·21
May	-0·81	-0·96	-1·60	-2·18	-2·95	-3·43	-3·73	*-3·84*	-3·55	-1·80	+0·67	+2·93	+4·67	*+5·07*	+4·62	+3·90	+2·89	+1·65	+0·86	+0·17	-0·13	-0·76	-0·84	-0·85
June	-1·58	-1·22	-1·07	-2·39	-3·47	-4·48	*-5·09*	-4·89	-4·28	-2·40	+0·09	+2·67	+4·91	*+5·80*	+5·67	+4·74	+3·15	+2·38	+1·77	+1·12	+0·55	-0·23	-0·59	-1·16
July	-1·37	-1·38	-1·28	-1·90	-3·09	-4·21	*-4·87*	-4·71	-4·45	-2·71	-0·19	+2·59	+4·86	*+5·99*	+5·78	+4·64	+3·29	+2·26	+1·24	+0·76	+0·20	-0·23	-0·40	-0·82
Aug.	-1·46	-2·01	-1·80	-2·30	-3·53	*-4·14*	-3·98	-3·19	-2·81	-1·28	+0·82	+3·70	+5·81	*+6·17*	+5·23	+3·74	+2·45	+1·32	+0·90	+0·06	-0·47	-0·74	-1·06	-1·43
Sept.	-1·80	-1·76	-1·37	-2·08	-2·01	-2·04	-2·19	-2·80	*-2·81*	-1·49	+0·61	+3·38	+5·46	*+5·98*	+5·31	+3·42	+2·39	+1·37	+0·94	-0·68	-0·76	-2·16	-2·50	-2·41
Oct.	-1·02	-1·29	-1·08	-0·45	-0·82	-0·91	-1·05	-1·76	-2·28	-1·12	+1·21	+3·78	+4·72	*+4·77*	+4·20	+2·94	+1·47	+1·07	+0·16	-1·38	-2·05	-2·41	*-3·44*	-3·26
Nov.	-1·50	-0·91	-0·50	-0·19	-0·33	-0·62	-0·66	-0·71	-0·56	-0·42	+0·53	+1·98	+2·83	*+3·09*	+2·61	+1·73	+0·98	+0·40	+0·14	-0·48	-1·14	-1·79	*-2·41*	-2·07
Dec.	-1·84	-1·27	-0·70	-0·01	-0·15	+0·46	+0·33	+0·28	+0·30	+0·51	+1·02	+1·62	+2·33	+2·32	+2·00	*+2·52*	+1·34	+0·71	+0·61	-1·32	-2·62	-2·30	*-3·40*	-2·74
Year	-1·49	-1·29	-1·01	-1·27	-1·65	-1·72	-1·91	-1·95	-2·00	-1·04	+0·70	+2·69	+4·22	*+4·75*	+4·19	+3·09	+2·01	+1·07	+0·33	-0·68	-1·23	-1·65	*-2·16*	-2·03
Winter	-1·59	-1·06	-0·43	-0·27	-0·46	+0·07	+0·14	+0·14	-0·03	+0·18	+1·07	+1·98	+2·80	*+3·05*	+2·51	+1·83	+1·04	+0·25	-0·11	-1·18	-2·25	-2·33	*-2·92*	-2·41
Equinox	-1·56	-1·42	-1·15	-1·36	-1·24	-1·16	-1·45	-1·82	-2·19	-1·26	+0·69	+3·12	+4·80	*+5·43*	+4·75	+3·20	+2·06	+1·07	-0·09	-1·38	-1·48	-2·13	*-2·84*	-2·60
Summer	-1·31	-1·39	-1·44	-2·19	-3·26	-4·07	*-4·42*	-4·16	-3·77	-2·05	+0·35	+2·97	+5·06	*+5·76*	+5·33	+4·25	+2·95	+1·90	+1·19	+0·53	+0·04	-0·49	-0·72	-1·07
INCLINATION																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	-0·23	-0·18	-0·09	-0·30	-0·41	-0·51	-0·70	*-0·71*	-0·45	0·00	+0·29	+0·29	+0·25	+0·05	+0·18	+0·46	*+0·47*	*+0·47*	+0·35	+0·45	+0·44	+0·21	-0·17	-0·16
Feb.	-0·19	-0·02	-0·16	-0·17	-0·56	-0·59	*-0·67*	-0·58	-0·37	+0·11	+0·55	+0·51	+0·63	*+0·67*	+0·51	+0·44	+0·25	+0·32	+0·08	+0·07	-0·14	-0·39	-0·11	-0·19
Mar.	-0·43	-0·62	-0·34	-0·19	-0·37	-0·58	-0·46	-0·13	+0·29	+0·98	*+1·18*	+1·14	+1·02	+0·34	+0·28	+0·26	+0·07	-0·01	+0·04	-0·38	-0·22	-0·38	-0·67	*-0·80*
Apr.	-0·64	-0·75	-0·61	-0·63	+0·40	-0·63	-0·30	+0·49	+1·02	+1·75	*+2·08*	+1·77	+1·03	+0·55	+0·22	-0·09	-0·27	-0·52	-0·50	-0·39	-0·57	-0·62	-0·99	*-1·02*
May	-0·74	-0·49	-0·26	-0·20	-0·05	+0·13	+0·27	+0·60	+0·82	+1·11	+1·25	*+1·30*	+0·85	+0·64	+0·27	-0·25	-0·43	*-0·89*	-0·73	-0·73	-0·65	-0·70	-0·58	-0·53
June	-0·35	-0·14	-0·14	-0·21	-0·17	-0·10	+0·21	+0·81	+1·15	*+1·46*	+1·45	+1·11	+0·74	+0·39	-0·16	-0·33	-0·44	-0·68	-0·89	*-0·92*	-0·79	-0·68	-0·62	-0·70
July	-0·41	-0·28	-0·21	-0·29	-0·21	-0·07	+0·28	+0·58	+0·95	+1·41	*+1·50*	+1·36	+1·04	+0·57	+0·05	-0·16	-0·37	-0·70	-0·94	*-1·06*	-0·95	-0·76	-0·72	-0·60
Aug.	-0·62	-0·72	-0·31	-0·59	-0·40	-0·22	+0·20	+0·43	+0·95	+1·40	*+1·48*	+1·25	+0·86	+0·57	+0·27	+0·03	-0·08	-0·20	-0·59	*-0·83*	-0·77	-0·73	-0·69	-0·67
Sept.	*-0·76*	-0·48	-0·32	-0·35	-0·29	-0·41	-0·17	+0·22	+0·69	+1·15	*+1·25*	+1·13	+0·72	+0·39	+0·43	+0·21	-0·04	-0·31	-0·48	-0·57	-0·40	-0·49	-0·48	-0·64
Oct.	-0·43	-0·30	-0·23	-0·37	-0·44	-0·49	-0·29	-0·19	+0·21	+0·84	*+0·97*	+0·93	+0·54	+0·14	-0·05	-0·07	+0·02	+0·08	+0·16	+0·10	-0·23	-0·21	*-0·55*	-0·14
Nov.	-0·10	-0·16	-0·17	-0·31	-0·51	*-0·66*	-0·65	-0·45	-0·09	+0·21	+0·50	+0·48	+0·47	+0·38	+0·36	+0·45	+0·28	+0·19	+0·17	+0·06	-0·01	-0·17	-0·14	-0·10
Dec.	-0·05	+0·02	+0·02	-0·19	-0·54	*-0·76*	-0·74	-0·49	-0·27	-0·16	-0·21	+0·02	-0·06	-0·06	+0·34	-0·04	+0·14	+0·57	*+0·75*	+0·57	+0·52	+0·39	+0·25	-0·01
Year	-0·41	-0·34	-0·23	-0·32	-0·37	-0·40	-0·25	+0·05	+0·41	+0·85	*+1·03*	+0·94	+0·68	+0·38	+0·23	+0·08	-0·03	-0·14	-0·21	-0·30	-0·32	-0·38	*-0·46*	*-0·46*
Winter	-0·14	-0·08	-0·10	-0·24	-0·51	-0·63	*-0·69*	-0·56	-0·29	+0·04	+0·28	+0·32	+0·32	+0·26	+0·35	+0·33	+0·28	*+0·38*	+0·34	+0·29	+0·20	+0·01	-0·04	-0·12
Equinox	-0·56	-0·53	-0·38	-0·39	-0·37	-0·52	-0·31	+0·10	+0·55	+1·18	*+1·37*	+1·24	+0·83	+0·35	+0·22	+0·07	-0·06	-0·19	-0·20	-0·31	-0·35	-0·42	*-0·68*	-0·65
Summer	-0·53	-0·41	-0·23	-0·33	-0·21	-0·07	+0·24	+0·61	+0·97	+1·35	*+1·42*	+1·25	+0·87	+0·54	+0·11	-0·18	-0·33	-0·62	-0·79	*-0·88*	-0·79	-0·72	-0·65	-0·62
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.	+0·5	-1·1	-1·6	+1·7	+3·6	+5·0	+7·9	*+8·1*	+4·7	-1·2	*-5·0*	-4·6	-3·9	-0·2	-0·4	-3·0	-2·9	-2·6	-1·3	-3·1	-3·0	-1·3	+2·7	+1·0
Feb.	+1·5	-1·7	-0·2	+0·4	+5·7	+5·7	*+6·9*	+5·7	+3·5	-2·7	-8·9	-8·3	*-9·5*	-8·1	-4·4	-2·6	+0·1	-1·3	+1·8	+1·8	+3·8	+6·5	+1·9	+2·4
Mar.	+2·6	+4·1	-0·2	-2·0	+0·6	+4·7	+4·2	+0·6	-5·1	-15·2	*-18·5*	-18·3	-16·1	-4·7	-1·4	+1·5	+4·9	+5·9	+5·6	+10·5	+7·0	+8·4	*+10·7*	+10·2
Apr.	+6·6	+6·9	+4·7	+6·1	+3·7	+7·6	+3·1	-8·4	-16·7	-27·1	*-32·4*	-27·9	-17·9	-9·2	-2·1	+4·2	+8·3	+13·2	+13·7	+12·0	+12·8	+11·2	*+14·6*	+13·0
May	+8·5	+4·3	+1·7	+2·0	+0·7	-2·1	-4·7	-10·0	-14·0	-19·6	-22·9	*-23·8*	-16·1	-10·5	-2·7	+6·6	+10·9	*+18·3*	+16·3	+15·5	+13·1	+12·3	+9·3	+6·9
June	+4·2	+1·0	+1·2	+2·5	+2·1	+1·0	-4·0	-12·8	-18·2	-24·2	*-25·5*	-21·3	-15·3	-8·4	+1·3	+6·2	+10·3	+14·8	+18·0	*+18·1*	+15·5	+12·8	+10·7	+10·0
July	+6·1	+4·0	+2·6	+3·9	+3·3	+1·1	-4·3	-9·0	-14·6	-22·9	*-25·6*	-24·5	-19·4	-11·0	-1·8	+3·0	+8·1	+13·7	+17·4	*+19·0*	+16·7	+13·2	+11·8	+9·2
Aug.	+7·6	+7·9	+1·0	+5·2	+3·9	+2·4	-3·5	-7·3	-14·8	-22·4	*-24·6*	-22·2	-15·9	-9·7	-2·8	+2·5	+5·5	+7·8	+13·0	*+16·2*	+14·9	+13·2	+11·8	+10·3
Sept.	+8·9	+3·9	+2·1	+3·1	+3·1	+5·2	+2·4	-3·1	-10·1	-18·0	*-20·7*	-20·0	-13·6	-7·0	-5·2	-0·1	+4·0	+7·9	+10·2	*+11·8*	+8·8	+9·8	+8·2	+8·4
Oct.	+1·2	0·0	-0·5	+1·8	+4·7	+6·3	+4·1	+3·1	-2·8	-12·4	*-15·6*	-15·1	-8·6	-1·5	+2·5	+4·2	+4·0	+3·1	+2·0	+2·9	+6·2	+4·7	*+6·7*	-1·0
Nov.	+0·8	+1·3	+1·1	+2·8	+5·4	*+7·7*	+7·7	+4·8	0·0	-3·9	*-8·5*	-8·0	-7·2	-4·7	-3·4	-3·9	-1·1	0·0	0·0	+1·0	+1·6	+3·3	+2·2	+1·0
Dec.	-2·1	-3·2	-3·0	0·0	+4·8	*+7·6*	+7·4	+4·2	+1·2	+0·2	+0·9	-1·9	0·0	+1·4	-1·1	+5·9	+6·6	-2·6	*-6·6*	-4·6	-5·4	-4·4	-3·6	-1·7
Year	+3·9	+2·3	+0·7	+2·3	+3·5	+4·3	+2·3	-2·0	-7·2	-14·1	*-17·3*	-16·3	-12·0	-6·1	-1·8	+2·0	+4·9	+6·5	+7·5	*+8·4*	+7·7	+7·5	+7·3	+5·8
Winter	+0·2	-1·2	-0·9	+1·2	+4·9	+6·5	*+7·5*	+5·7	+2·3	-1·9	-5·4	*-5·7*	-5·1	-2·9	-2·3	-0·9	+0·7	-1·6	-1·5	-1·2	-0·7	+1·0	+0·8	+0·7
Equinox	+4·8	+3·7	+1·5	+2·3	+3·0	+5·9	+3·5	-1·9	-8·7	-18·2	*-21·8*	-20·3	-14·1	-5·6	-1·5	+2·5	+5·3	+7·5	+7·9	+9·3	+8·7	+8·5	*+10·1*	+7·7
Summer	+6·6	+4·3	+1·6	+3·4	+2·5	+0·6	-4·1	-9·8	-15·4	-22·3	*-24·7*	-22·9	-16·7	-9·9	-1·5	+4·6	+8·7	+13·7	+16·2	*+17·2*	+15·1	+12·9	+10·9	+9·1

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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)

152 ESKDALEMUIR 1944

NORTH COMPONENT

	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
Jan.	−1·8	−1·5	−3·3	−0·9	−0·8	+2·0	+3·3	+3·7	+2·4	−2·6	*−4·4*	−4·2	−3·6	−2·9	+2·4	*+4·7*	+4·4	+2·7	+1·7	+1·5	−0·6	+0·5	−1·1	−1·5
Feb.	−0·8	−0·7	−4·1	−1·7	+0·4	+3·1	+5·2	+5·3	+3·7	+1·0	−7·5	*−12·5*	−12·3	−5·6	−1·4	+0·5	+0·8	+2·0	+3·1	+4·8	+3·3	+4·8	*+6·2*	+2·1
Mar.	+2·9	+1·9	−0·2	+2·1	+4·5	+3·7	+5·4	+4·5	+4·0	−6·4	−13·3	*−17·3*	−16·7	−11·5	−5·6	−3·7	+1·7	+2·9	+5·9	+6·8	+7·3	+7·3	*+7·4*	+6·3
Apr.	+7·7	+4·9	+3·7	+5·3	+6·2	+6·9	+5·4	+2·9	−0·8	−11·3	−20·5	*−23·7*	−20·9	−15·0	−9·4	−4·7	+0·8	+7·5	+8·3	+9·4	+9·1	*+9·5*	+9·3	+9·3
May	+6·3	+4·9	+4·4	+4·3	+6·2	+5·2	+0·2	−5·0	−9·6	−18·0	*−23·5*	−21·9	−18·2	−14·4	−8·2	−3·5	+2·4	+9·3	*+15·3*	+14·0	+14·3	+12·2	+12·7	+10·7
June	+5·3	+3·1	+4·0	+3·5	+4·9	+2·9	−2·3	−6·6	−10·4	−15·9	−22·6	*−22·7*	−19·7	−11·5	−2·9	+2·6	+4·5	+9·9	+13·2	*+14·8*	+14·1	+11·6	+10·6	+9·5
July	+6·8	+5·8	+5·9	+5·9	+7·0	+4·9	+0·6	−2·9	−7·1	−14·5	−22·1	*−26·1*	−23·9	−19·5	−11·5	−6·2	+1·5	+9·2	+14·1	+17·8	*+18·0*	+15·8	+12·3	+8·3
Aug.	+8·0	+6·1	+1·2	+2·0	+2·4	+4·1	+2·5	−1·2	−8·1	−16·5	−22·4	*−23·1*	−19·4	−12·3	−7·8	−2·3	+0·5	+6·6	+12·8	+12·9	+12·6	+13·6	*+16·7*	+10·9
Sept.	+8·1	+5·7	+5·3	+6·7	+2·5	+5·5	+4·7	−1·2	−7·4	−16·9	*−22·3*	−21·8	−16·9	−10·9	−7·5	−3·7	+0·8	+3·6	+9·8	*+12·0*	*+12·0*	+9·6	+11·6	+10·8
Oct.	+8·2	+4·5	+4·7	+3·1	+5·0	+7·7	+6·2	+3·1	−3·4	−17·4	−22·3	*−22·6*	−17·6	−11·9	−5·0	−1·0	+3·6	+5·3	+6·1	+7·3	+7·5	*+9·8*	+9·3	+9·7
Nov.	−2·6	−3·8	−2·3	−0·2	+2·2	+3·9	+4·0	*+4·8*	+1·4	−3·7	−7·0	*−8·1*	−4·7	−2·2	−0·5	+0·5	+1·9	+2·4	+2·8	+1·7	+2·1	+3·3	+3·1	+1·4
Dec.	−1·7	−3·9	*−5·4*	−3·5	−2·0	+0·2	+1·8	+1·6	−0·6	+0·2	+1·5	+0·1	−2·4	−1·7	−1·4	−0·7	+1·3	+2·8	+3·1	*+4·3*	+2·9	+2·8	+1·2	−0·3
Year	+3·9	+2·2	+1·1	+2·2	+3·2	+4·2	+3·1	+0·7	−3·0	−10·2	−15·6	*−17·0*	−14·7	−9·9	−4·9	−1·4	+2·0	+5·3	+8·0	*+8·9*	+8·6	+8·4	+8·3	+6·4
Winter	−1·8	−2·5	−3·8	−1·6	−0·1	+2·3	+3·6	*+3·8*	+1·7	−1·2	−4·4	*−6·2*	−5·8	−3·1	−0·2	+1·3	+2·1	+2·5	+2·6	+3·0	+1·9	+2·9	+2·3	+0·4
Equinox	+6·7	+4·2	+3·3	+4·3	+4·5	+5·9	+5·4	+2·3	−1·9	−13·0	−19·6	*−21·4*	−18·0	−12·3	−6·8	−3·3	+1·7	+4·9	+7·5	+8·8	+8·9	+9·0	*+9·3*	+9·1
Summer	+6·6	+5·0	+3·9	+3·9	+5·1	+4·2	+0·2	−3·9	−8·8	−16·2	−22·7	*−23·5*	−20·3	−14·4	−7·5	−2·3	+2·2	+8·8	+13·9	*+14·9*	+14·7	+13·3	+13·1	+9·8

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.	−3·7	−4·8	−5·9	−4·9	−6·9	−4·9	−3·7	−2·2	−3·1	−0·3	+2·9	+5·7	+10·9	*+13·4*	+11·6	+8·4	+7·5	+7·5	+4·5	+2·9	−6·9	*−10·7*	−8·6	−8·6
Feb.	−7·7	*−11·2*	−7·6	−7·6	−6·3	−5·5	−5·1	−4·3	−3·9	−3·1	−1·2	+5·9	+11·3	*+14·7*	+13·7	+9·4	+6·5	+6·1	+5·2	+2·8	−1·2	−0·9	−4·8	−5·3
Mar.	−4·4	−3·6	−4·3	−1·5	−6·1	−5·8	−6·5	−8·9	*−12·2*	*−12·2*	−4·3	+5·4	+13·9	*+17·6*	+16·8	+10·0	+6·6	+4·3	+3·5	+2·2	+0·6	−1·0	−4·2	−5·8
Apr.	−2·3	−3·3	−3·6	−4·3	−6·2	−8·2	−12·1	−16·5	*−18·9*	−16·1	−10·0	+0·4	+12·1	*+21·3*	+20·3	+14·5	+9·7	+6·1	+4·5	+4·3	+3·1	+2·2	+2·2	+0·9
May	−3·2	−2·2	−4·9	−6·9	−11·0	−18·7	*−22·7*	−22·6	−21·6	−15·5	−3·6	+8·0	+18·9	+21·2	*+21·5*	+18·3	+13·0	+9·3	+0·6	+4·9	+5·9	+3·8	+2·4	−0·7
June	−2·4	+0·1	−6·5	−8·9	−15·4	−18·9	−19·9	−20·0	*−21·1*	−16·7	−7·5	+6·9	+21·0	*+26·6*	+25·0	+19·3	+13·6	+9·2	+5·9	+4·8	+3·4	+1·6	+0·8	−0·7
July	−3·9	−6·5	−6·5	−7·6	−8·6	−14·5	−21·3	−24·0	*−24·4*	−20·0	−10·2	+1·5	+11·8	+17·6	*+21·7*	*+21·7*	+19·5	+18·2	+14·9	+13·0	+11·3	+4·1	−3·6	−4·1
Aug.	−2·4	−6·7	−7·0	−5·1	−8·5	−12·2	−16·5	−19·4	*−20·5*	−15·7	−4·0	+10·8	+21·8	*+25·6*	+22·9	+16·3	+9·5	+6·4	+7·3	+2·1	+0·9	+2·9	−3·0	−5·6
Sept.	−2·4	−4·9	−6·3	−8·6	−6·7	−7·9	−11·4	−15·6	*−16·7*	−12·1	−2·7	+8·4	+15·5	*+20·5*	+17·4	+11·7	+7·5	+4·6	+4·8	+3·7	+0·4	+2·3	−0·4	−1·0
Oct.	−5·2	−2·0	−3·1	−5·5	−6·0	−5·6	−7·0	−12·4	*−16·7*	−14·2	−6·1	+7·6	+15·4	*+17·7*	+15·9	+11·3	+6·8	+6·2	+5·6	+4·1	+2·9	−1·9	−5·3	−2·3
Nov.	*−6·3*	−2·1	−1·3	−0·5	−1·0	−1·8	−1·9	−3·5	−5·1	*−6·3*	−1·1	+4·8	+9·1	*+10·1*	+7·4	+4·9	+4·1	+2·1	+0·9	−0·5	−1·5	−2·1	−4·3	−4·1
Dec.	−6·3	*−7·8*	−4·2	−4·4	−2·9	−2·4	−2·5	−3·5	−2·7	+0·5	+4·4	+7·1	*+8·9*	+7·4	+4·6	+5·0	+3·4	+3·5	+2·8	+1·0	−1·1	−2·8	−3·7	−4·3
Year	−4·2	−4·6	−5·1	−5·5	−7·1	−8·9	−10·9	−12·7	*−13·9*	−11·0	−3·6	+6·0	+14·2	*+17·8*	+16·6	+12·6	+9·0	+6·9	+5·5	+3·8	+1·5	−0·2	−2·7	−3·5
Winter	−6·0	*−6·5*	−4·8	−4·3	−4·2	−3·7	−3·3	−3·4	−3·7	−2·3	+1·3	+5·9	+10·0	*+11·4*	+9·3	+6·9	+5·4	+4·8	+3·4	+1·5	−2·7	−4·1	−5·3	−5·6
Equinox	−3·6	−3·5	−4·3	−5·0	−6·2	−6·9	−9·3	−13·3	*−16·2*	−13·7	−5·8	+5·4	+14·2	*+19·3*	+17·6	+11·9	+7·6	+5·3	+4·5	+3·6	+1·7	+0·5	−1·9	−2·1
Summer	−3·0	−3·8	−6·2	−7·1	−10·9	−16·1	−20·1	−21·5	*−21·9*	−17·0	−6·4	+6·7	+18·3	*+22·7*	*+22·8*	+18·9	+13·9	+10·7	+8·7	+6·2	+5·3	+3·1	−0·9	−2·8

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.	+0·1	−1·7	−1·0	−2·1	−2·3	−2·7	−3·1	*−3·7*	−3·2	−2·7	−1·3	−0·9	−1·3	−0·7	+1·0	−0·7	−0·1	+0·7	+2·1	+2·1	+4·6	*+6·5*	+5·7	+4·7
Feb.	+2·6	+1·5	+1·6	+1·8	+0·4	−0·5	−1·4	−2·6	−2·6	−2·9	−3·8	*−4·6*	−4·4	−1·9	+0·4	+2·2	+2·6	+1·7	+1·8	+1·2	+1·6	+1·7	+1·2	+2·4
Mar.	+1·9	+2·7	+2·2	+1·3	−0·3	−0·3	+0·1	+1·1	+0·4	+0·1	−3·3	−7·3	*−8·1*	−6·7	−3·2	+1·3	+2·7	*+2·9*	+2·3	+2·1	+1·8	+1·9	+2·1	+2·3
Apr.	+1·1	+1·6	+2·4	+2·9	+3·0	+2·8	+2·5	+2·6	+0·2	−3·9	−6·8	−9·6	*−12·3*	−8·0	−2·2	+1·1	+3·6	+4·0	*+4·3*	+3·2	+2·2	+2·3	+1·6	+1·4
May	+0·9	+0·5	+1·7	+2·9	+5·1	+3·8	+2·3	+0·9	−2·1	−6·1	−11·7	*−13·3*	−12·1	−7·5	−4·1	+0·3	+5·3	+6·6	*+7·7*	+5·7	+4·1	+3·9	+2·9	+2·3
June	+3·1	+1·9	+2·7	+4·7	+5·1	+4·9	+3·3	+1·7	−0·3	−5·3	−10·1	*−15·7*	−13·9	−11·1	−7·5	−1·9	+3·7	+7·3	*+8·1*	+5·7	+4·5	+3·5	+2·9	+2·7
July	+1·9	+1·8	+1·5	+1·8	+3·0	+3·3	+3·2	+3·2	+0·7	−5·0	−9·3	*−9·6*	*−9·1*	−5·6	−2·3	−0·2	+3·4	*+3·5*	+2·8	+2·2	+2·1	+2·2	+2·7	+1·8
Aug.	+0·4	−1·0	+0·3	+1·0	+2·6	+3·0	+3·6	+0·8	+1·5	−4·4	−9·0	−11·8	−12·4	−9·0	−3·7	+1·8	+6·8	*+8·4*	+6·4	+5·8	+4·9	+2·6	+1·0	+0·4
Sept.	+0·5	+0·9	+2·7	+1·9	+0·1	−0·9	+0·3	+0·1	−0·3	−3·5	−7·1	*−8·1*	−6·3	−3·1	+0·9	*+3·1*	*+3·1*	+2·5	+1·7	+1·5	+1·7	+2·3	+2·9	*+3·1*
Oct.	−3·0	−2·9	−3·0	−2·6	−1·2	−0·5	+1·0	*+2·6*	+2·2	+1·3	−4·6	*−6·2*	−5·8	−1·7	+1·2	*+3·6*	*+3·6*	+2·9	+2·8	+2·6	+2·0	+2·7	+2·0	+1·0
Nov.	+0·8	+0·1	−0·6	−1·4	−2·0	−2·1	−1·6	*−2·6*	−1·2	+0·3	−1·4	−1·0	+1·0	+1·5	*+1·8*	*+1·8*	+1·6	+1·1	+1·0	+0·8	+1·0	+0·5	+0·4	+0·2
Dec.	+1·0	0·0	−0·6	−1·2	−0·8	−1·0	−1·6	−1·2	−1·2	−1·8	*−3·6*	−2·4	−1·8	−0·2	+1·0	+1·4	*+2·6*	+1·8	+1·8	+1·4	+1·6	+2·2	+1·6	+1·0
Year	+0·9	+0·5	+0·8	+0·9	+1·1	+0·8	+0·7	+0·2	−0·5	−2·8	−6·0	*−7·5*	−7·2	−4·5	−1·4	+1·1	+3·2	*+3·6*	*+3·6*	+2·9	+2·7	+2·7	+2·3	+1·9
Winter	+1·1	0·0	−0·1	−0·7	−1·2	−1·6	−1·9	*−2·5*	−2·1	−1·8	*−2·5*	−2·2	−1·6	−0·3	+1·1	+1·2	+1·7	+1·3	+1·7	+1·4	+2·2	+2·7	+2·2	+2·1
Equinox	+0·1	+0·6	+1·1	+0·9	+0·4	+0·3	+1·0	+1·6	+0·6	−1·5	−5·5	−7·8	*−8·1*	−4·9	−0·8	+2·3	*+3·3*	+3·1	+2·8	+2·3	+1·9	+2·3	+2·1	+1·9
Summer	+1·6	+0·8	+1·5	+2·6	+3·9	+3·7	+3·1	+1·7	−0·1	−5·2	−10·0	*−12·6*	−11·9	−8·3	−4·4	0·0	+4·8	*+6·5*	+6·3	+4·9	+3·9	+3·1	+2·4	+1·8

INTERNATIONAL QUIET DAYS

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

153 ESKDALEMUIR 1944

DECLINATION (measured positive towards the west)

	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
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	−0·67	−0·90	−1·05	−0·96	−1·36	−1·09	−0·90	−0·62	−0·75	+0·06	+0·79	+1·34	+2·37	*+2·86*	+2·25	+1·50	+1·32	+1·39	+0·84	+0·52	−1·37	*−2·20*	−1·69	−1·68
Feb.	−1·52	*−2·25*	−1·36	−1·47	−1·30	−1·25	−1·26	−1·11	−0·96	−0·67	+0·10	+1·75	+2·84	*+3·23*	+2·86	+1·89	+1·28	+1·15	+0·92	+0·35	−0·40	−0·39	−1·26	−1·17
Mar.	−1·03	−0·82	−0·87	−0·41	−1·45	−1·34	−1·57	−2·01	*−2·67*	−2·20	−0·27	+1·87	+3·57	*+4·10*	+3·67	+2·21	+1·27	+0·74	+0·45	+0·15	−0·21	−0·52	−1·19	−1·47
Apr.	−0·81	−0·89	−0·89	−1·11	−1·53	−1·98	−2·69	−3·49	*−3·81*	−2·77	−1·11	+1·15	+3·39	*+4·99*	+4·53	+3·15	+1·93	+0·90	+0·53	+0·45	+0·23	+0·03	+0·03	−0·23
May	−0·94	−0·66	−1·19	−1·60	−2·52	−4·02	*−4·62*	−4·36	−3·95	−2·34	+0·32	+2·60	+4·64	*+4·94*	+4·73	+3·86	+2·54	+1·46	+0·66	+0·38	+0·55	+0·22	−0·08	−0·62
June	−0·72	−0·11	−1·50	−1·97	−3·34	*−3·97*	−3·94	−3·77	−3·82	−2·69	−0·52	+2·41	+5·14	*+5·91*	+5·20	+3·81	+2·56	+1·43	+0·60	+0·31	+0·06	−0·19	−0·32	−0·57
July	−1·09	−1·58	−1·59	−1·80	−2·06	−3·15	−4·36	*−4·74*	−4·63	−3·42	−1·09	+1·46	+3·45	+4·44	*+4·91*	+4·68	+3·90	+3·29	+2·40	+1·84	+1·49	+0·12	−1·27	−1·20
Aug.	−0·84	−1·62	−1·48	−1·12	−1·84	−2·66	−3·46	*−3·88*	−3·80	−2·46	+0·18	+3·22	+5·28	*+5·74*	+5·00	+3·42	+1·92	+1·00	+0·92	−0·14	−0·38	−0·02	−1·36	−1·62
Sept.	−0·84	−1·25	−1·52	−2·05	−1·46	−1·85	−2·52	*−3·11*	−3·06	−1·71	+0·44	+2·67	+3·90	*+4·65*	+3·86	+2·55	+1·48	+0·77	+0·54	+0·21	−0·46	+0·05	−0·60	−0·69
Oct.	−1·42	−0·61	−0·83	−1·26	−1·45	−1·47	−1·70	−2·65	*−3·25*	−2·12	−0·25	+2·55	+3·90	*+4·13*	+3·45	+2·34	+1·21	+1·03	+0·86	+0·51	+0·25	−0·82	−1·49	−0·91
Nov.	*−1·17*	−0·26	−0·16	−0·09	−0·30	−0·54	−0·57	−0·92	−1·10	−1·11	+0·08	+1·34	+2·05	*+2·16*	+1·52	+0·97	+0·76	+0·32	+0·07	−0·18	−0·40	−0·57	−1·00	−0·90
Dec.	−1·20	*−1·41*	−0·62	−0·73	−0·49	−0·50	−0·59	−0·79	−0·52	+0·09	+0·82	+1·45	*+1·92*	+1·57	+1·00	+1·05	+0·63	+0·58	+0·43	+0·01	−0·36	−0·69	−0·80	−0·85
Year	−1·02	−1·03	−1·09	−1·21	−1·59	−1·99	−2·35	−2·62	*−2·69*	−1·78	−0·04	+1·98	+3·54	*+4·06*	+3·58	+2·62	+1·73	+1·17	+0·77	+0·37	−0·08	−0·41	−0·92	−0·99
Winter	−1·14	*−1·21*	−0·80	−0·81	−0·86	−0·85	−0·83	−0·86	−0·83	−0·41	+0·45	+1·47	+2·29	*+2·45*	+1·91	+1·35	+1·00	+0·86	+0·57	+0·17	−0·63	−0·96	−1·19	−1·15
Equinox	−1·03	−0·89	−1·03	−1·21	−1·47	−1·66	−2·12	−2·81	*−3·20*	−2·20	−0·30	+2·06	+3·69	*+4·47*	+3·88	+2·56	+1·47	+0·86	+0·59	+0·33	−0·05	−0·31	−0·81	−0·83
Summer	−0·90	−0·99	−1·44	−1·62	−2·44	−3·45	−4·09	*−4·19*	−4·05	−2·73	−0·28	+2·42	+4·63	*+5·26*	+4·96	+3·94	+2·73	+1·79	+1·15	+0·60	+0·43	+0·03	−0·76	−1·00

INCLINATION

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	+0·18	+0·13	+0·28	+0·08	+0·10	−0·13	−0·24	−0·30	−0·19	+0·11	+0·22	+0·17	+0·05	−0·02	−0·31	*−0·45*	−0·40	−0·27	−0·12	−0·09	+0·26	+0·28	*+0·34*	*+0·34*
Feb.	+0·23	+0·25	+0·42	+0·27	+0·08	−0·14	−0·31	*−0·35*	−0·25	−0·09	+0·42	*+0·62*	+0·54	+0·11	−0·10	−0·11	−0·08	−0·18	−0·24	−0·33	−0·16	−0·26	−0·31	0·00
Mar.	−0·08	−0·01	+0·13	−0·08	−0·22	−0·17	−0·26	−0·14	−0·08	+0·60	+0·85	*+0·88*	+0·69	+0·34	+0·05	+0·13	−0·14	−0·18	−0·38	−0·43	*−0·45*	−0·42	−0·37	−0·27
Apr.	−0·45	−0·24	−0·13	−0·22	−0·24	−0·27	−0·12	+0·11	+0·33	+0·88	*+1·33*	+1·32	+0·89	+0·48	+0·27	+0·13	−0·11	−0·48	−0·51	−0·60	−0·59	−0·60	*−0·61*	−0·59
May	−0·35	−0·28	−0·17	−0·11	−0·12	+0·02	+0·37	+0·68	+0·89	+1·26	*+1·31*	+1·00	+0·62	+0·45	+0·13	−0·03	−0·21	−0·58	−0·91	−0·85	*−0·92*	−0·76	−0·80	−0·64
June	−0·24	−0·16	−0·10	+0·02	+0·03	+0·20	+0·52	+0·76	+0·98	+1·16	*+1·35*	+1·01	+0·65	+0·10	−0·35	−0·50	−0·40	−0·60	−0·75	*−0·90*	−0·87	−0·70	−0·64	−0·55
July	−0·34	−0·25	−0·26	−0·24	−0·26	−0·03	+0·35	+0·62	+0·84	+1·12	+1·37	*+1·46*	+1·18	+0·89	+0·39	+0·09	−0·29	−0·78	−1·08	*−1·31*	−1·30	−1·04	−0·69	−0·44
Aug.	−0·48	−0·33	+0·03	−0·04	+0·03	−0·02	+0·16	+0·38	+0·87	+1·21	*+1·31*	+1·07	+0·66	+0·21	+0·09	−0·04	0·00	−0·32	−0·79	−0·74	−0·72	−0·87	*−1·03*	−0·63
Sept.	−0·49	−0·28	−0·19	−0·27	−0·07	−0·27	−0·14	+0·31	+0·72	+1·20	*+1·33*	+1·11	+0·73	+0·35	+0·27	+0·15	−0·09	−0·24	−0·67	*−0·81*	−0·75	−0·61	−0·68	−0·62
Oct.	−0·54	−0·34	−0·34	−0·19	−0·27	−0·44	−0·29	+0·04	+0·52	+1·38	*+1·44*	+1·22	+0·79	+0·48	+0·13	−0·01	−0·25	−0·37	−0·42	−0·47	−0·48	−0·55	−0·48	*−0·58*
Nov.	+0·28	+0·29	+0·15	−0·01	−0·18	−0·28	−0·28	*−0·33*	−0·05	+0·34	*+0·44*	*+0·44*	+0·21	+0·04	−0·03	−0·06	−0·14	−0·16	−0·17	−0·08	−0·09	−0·18	−0·13	−0·03
Dec.	+0·23	+0·37	*+0·40*	+0·27	+0·15	−0·01	−0·12	−0·08	+0·05	−0·07	−0·25	−0·17	−0·02	0·00	+0·05	+0·01	−0·07	−0·19	−0·20	*−0·26*	−0·13	−0·09	+0·01	+0·11
Year	−0·17	−0·07	+0·02	−0·05	−0·08	−0·13	−0·03	+0·14	+0·39	+0·76	*+0·93*	+0·85	+0·58	+0·29	+0·05	−0·06	−0·18	−0·36	−0·52	*−0·57*	−0·52	−0·49	−0·45	−0·32
Winter	+0·23	+0·26	*+0·31*	+0·15	+0·04	−0·14	−0·24	*−0·26*	−0·11	+0·07	+0·21	+0·27	+0·20	+0·03	−0·09	−0·15	−0·17	−0·20	−0·18	−0·19	−0·03	−0·06	−0·02	+0·11
Equinox	−0·39	−0·21	−0·13	−0·19	−0·20	−0·28	−0·20	+0·08	+0·37	+1·01	*+1·24*	+1·13	+0·78	+0·41	+0·17	+0·10	−0·14	−0·32	−0·49	*−0·58*	−0·57	−0·54	−0·53	−0·52
Summer	−0·35	−0·26	−0·13	−0·09	−0·09	+0·05	+0·35	+0·61	+0·89	+1·19	*+1·34*	+1·14	+0·78	+0·41	+0·06	−0·12	−0·23	−0·57	−0·88	*−0·95*	*−0·95*	−0·85	−0·79	−0·56

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.	−2·6	−2·5	*−4·5*	−2·0	−2·3	+0·9	+2·4	+3·1	+1·7	−2·6	−3·7	−2·9	−1·2	+0·1	+4·9	*+6·4*	+5·9	+4·3	+2·6	+2·1	−2·1	−1·8	−2·9	−3·3
Feb.	−2·4	−3·1	−5·6	−3·3	−1·0	+1·9	+4·0	+4·3	+2·8	+0·3	−7·6	*−10·9*	−9·6	−2·3	+1·6	+2·5	+2·2	+3·3	+4·2	*+5·3*	+3·0	+4·5	+5·0	+0·9
Mar.	+1·9	+1·1	−1·1	+1·7	+3·1	+2·4	+3·9	+2·5	+1·3	−8·9	−13·9	*−15·7*	−13·3	−7·5	−1·9	−1·5	+3·1	+3·8	+6·5	+7·1	*+7·3*	+6·9	+6·3	+4·9
Apr.	+7·0	+4·1	+2·8	+4·3	+4·7	+5·0	+2·7	−0·7	−4·8	−14·5	−22·2	*−23·1*	−17·8	−10·1	−4·8	−1·5	+2·9	+8·6	+9·1	*+10·1*	+9·6	+9·7	+9·6	+9·3
May	+5·5	+4·3	+3·2	+2·7	+3·7	+1·1	−4·7	−9·7	−14·0	−20·9	*−23·7*	−19·7	−13·7	−9·5	−3·4	+0·5	+5·1	+11·1	*+16·3*	+14·7	+15·2	+12·7	+12·9	+10·3
June	+4·7	+3·1	+2·5	+1·5	+1·5	−1·2	−6·5	−10·7	−14·7	−19·1	*−23·7*	−20·7	−14·7	−5·5	+2·5	+6·7	+7·3	+11·6	+14·1	*+15·5*	+14·5	+11·7	+10·5	+9·1
July	+5·8	+4·3	+4·4	+4·2	+5·0	+1·7	−4·0	−8·0	−12·2	−18·5	−23·8	*−25·2*	−20·8	−15·3	−6·6	−1·4	+5·6	+12·9	+17·0	*+20·2*	+20·0	+16·3	+11·2	+7·2
Aug.	+7·3	+4·5	−0·3	+0·9	+0·5	+1·4	−1·1	−5·3	−12·3	−19·5	*−22·7*	−20·3	−14·3	−6·5	−2·7	+1·3	+2·5	+7·8	+14·1	+13·1	+12·5	+13·9	*+15·7*	+9·5
Sept.	+7·4	+4·5	+3·8	+4·7	+1·0	+3·7	+2·2	−4·5	−10·8	−19·1	*−22·4*	−19·5	−13·2	−6·3	−3·6	−1·1	+2·4	+4·5	+10·6	*+12·5*	+11·8	+9·9	+11·2	+10·3
Oct.	+6·9	+4·0	+3·9	+1·8	+3·6	+6·3	+4·6	+0·4	−6·9	−20·0	*−23·1*	−20·4	−13·9	−7·8	−1·5	+1·4	+5·0	+6·5	+7·2	+8·0	+7·9	*+9·2*	+7·9	+9·0
Nov.	−3·9	−4·2	−2·5	−0·3	+1·9	+3·4	+3·5	*+3·9*	+0·3	−5·0	*−7·1*	−6·9	−2·7	0·0	+1·1	+1·5	+2·7	+2·8	+2·9	+1·5	+1·7	+2·8	+2·1	+0·5
Dec.	−3·0	−5·5	*−6·2*	−4·4	−2·6	−0·3	+1·2	+0·8	−1·2	+0·3	+2·4	+1·6	−0·4	−0·1	−0·4	+0·4	+2·0	+3·5	+3·6	*+4·4*	+2·6	+2·1	+0·4	−1·2
Year	+2·9	+1·2	0·0	+1·0	+1·6	+2·2	+0·7	−2·0	−5·9	−12·3	*−16·0*	−15·3	−11·3	−5·9	−1·2	+1·3	+3·9	+6·7	+9·0	*+9·5*	+8·7	+8·2	+7·5	+5·5
Winter	−3·0	−3·8	−4·7	−2·5	−1·0	+1·5	+2·8	+3·0	+0·9	−1·7	−4·0	*−4·8*	−3·5	−0·6	+1·8	+2·7	+3·2	*+3·5*	+3·3	+3·3	+1·3	+1·9	+1·1	−0·8
Equinox	+5·8	+3·4	+2·3	+3·1	+3·1	+4·3	+3·3	−0·6	−5·3	−15·6	*−20·4*	−19·7	−14·5	−7·9	−2·9	−0·7	+3·3	+5·9	+8·3	*+9·4*	+9·1	+8·9	+8·7	+8·4
Summer	+5·8	+4·1	+2·5	+2·3	+2·7	+0·7	−4·1	−8·4	−13·3	−19·5	*−23·5*	−21·5	−15·9	−9·2	−2·5	+1·8	+5·1	+10·9	+15·4	*+15·9*	+15·5	+13·7	+12·6	+9·0

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)

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NORTH COMPONENT

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
Jan.	+3·8	−1·1	−2·6	+10·6	+10·6	+5·7	+7·6	+5·6	+3·4	−8·1	*−12·6*	−6·5	−9·3	−11·6	−5·3	−10·8	−8·8	−6·3	−3·9	−6·3	+9·2	+9·1	*+20·0*	+7·5
Feb.	+12·2	−0·5	+6·7	+4·3	*+26·8*	+5·2	+6·3	+7·7	+4·2	−11·0	−18·5	−13·9	−25·2	*−30·6*	−21·3	−12·1	−3·1	−7·2	+7·3	+10·4	+23·0	+24·3	+3·7	+1·3
Mar.	+3·4	−0·2	−9·3	−9·4	−9·6	+6·8	+4·4	−11·0	−19·8	−19·7	−25·1	−27·6	*−28·5*	−3·5	−8·7	+8·0	+8·9	+13·3	*+31·0*	+12·3	+20·9	−17·7	−17·7	+28·2
Apr.	+19·3	+24·7	+25·1	+25·7	+24·8	+28·7	+6·9	−41·5	−44·4	−70·2	*−85·2*	−52·0	−17·6	−9·7	−6·2	−1·4	+5·9	+21·1	+20·4	+22·2	+17·7	+22·4	*+35·4*	+27·9
May	+10·4	−0·1	+3·3	+5·3	+4·9	−5·5	+1·2	−2·7	−8·6	−20·4	−30·6	*−42·7*	−29·9	−15·2	−4·6	+15·1	+7·8	*+26·6*	+19·1	+16·5	+16·2	+23·3	+10·9	−0·5
June	+7·7	−4·0	+0·2	+8·7	+10·4	+9·1	+3·7	−17·4	−21·2	*−27·8*	−24·7	−18·9	−23·8	−14·9	−4·3	+7·1	+13·6	+13·4	*+18·4*	+17·9	+13·0	+14·4	+13·0	+6·6
July	+14·1	+11·8	+8·8	+14·3	+11·3	+10·9	+3·6	−1·5	−11·3	−27·4	−30·7	−32·0	*−33·6*	−24·4	−12·1	−0·8	+8·1	+11·2	+13·6	*+16·5*	+16·1	+14·3	+11·5	+7·8
Aug.	+9·0	+19·1	+3·4	+18·8	+13·7	+14·2	−6·5	−9·5	−23·3	−25·3	−29·3	*−30·9*	−23·6	−17·0	−7·1	0·0	+3·7	+6·5	+15·3	*+22·9*	+21·9	+13·7	+10·3	+0·1
Sept.	+19·5	+10·8	+0·5	+5·8	+7·7	+7·2	−0·1	−2·7	−10·6	−16·8	−9·8	*−23·6*	−19·9	−18·7	−18·0	−5·6	−2·8	+6·5	+7·3	+15·9	+0·7	+8·9	*+21·4*	+16·4
Oct.	−10·5	−2·0	−8·3	−2·3	+10·3	*+14·5*	+9·0	+10·0	+10·1	−6·3	−14·4	*−20·5*	−6·9	+2·7	+5·6	+7·2	+3·1	+0·1	−1·5	+1·3	+2·6	+9·4	−0·9	−12·5
Nov.	+9·6	+9·9	+8·8	+9·0	+15·9	*+21·4*	+18·4	+8·1	−2·4	−3·4	−10·3	−11·9	*−22·1*	−21·3	−16·3	−10·1	−7·6	−7·2	−11·4	−2·1	+1·2	+9·5	+10·1	+4·1
Dec.	+5·6	+1·7	+5·6	+9·5	+12·2	+13·6	+14·8	+3·0	−2·7	−0·2	+2·1	−10·6	−1·1	+4·2	−4·9	+38·6	*+46·0*	−13·8	*−44·7*	−23·9	−21·3	−18·4	−13·7	−1·5
Year	+8·7	+5·8	+3·5	+8·3	+11·6	+10·9	+5·7	−4·3	−10·6	−19·7	−24·1	*−24·2*	−20·1	−13·3	−8·6	+2·9	+6·3	+5·4	+5·9	+8·6	+10·1	*+12·4*	+11·6	+7·1
Winter	+7·8	+2·5	+4·6	+8·3	*+16·4*	+11·5	+11·8	+6·1	+0·6	−5·7	−9·8	−10·7	−14·4	*−14·8*	−11·9	+1·4	+6·6	−8·6	−13·2	−5·5	+3·1	+6·2	+5·1	+2·9
Equinox	+8·0	+8·3	+2·0	+4·9	+8·3	+14·3	+5·0	−11·3	−16·2	−28·3	*−33·6*	−30·9	−18·2	−7·2	−6·9	+2·1	+3·8	+10·3	+14·3	+12·9	+10·5	+14·7	*+18·4*	+15·0
Summer	+10·3	+6·7	+3·9	+11·8	+10·1	+7·1	+0·5	−7·7	−16·1	−25·3	−28·9	*−31·1*	−27·7	−17·9	−7·0	+5·4	+8·3	+14·4	+16·6	*+18·4*	+16·9	+16·5	+11·4	+3·5

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.	+1·2	+7·7	+11·7	+4·1	+2·1	+12·7	+16·9	*+20·2*	+16·3	+15·5	+16·3	+16·3	+19·2	+16·5	+9·0	+0·8	−4·6	*−47·5*	−33·5	−25·5	−26·9	−20·1	−17·5	−10·9
Feb.	−6·0	−8·9	−0·9	−5·5	−0·9	+19·9	*+29·3*	+25·4	+12·6	+6·3	+12·5	+14·6	+19·4	+18·8	+13·1	+4·7	−1·6	−28·2	−21·9	*−32·3*	−31·9	−19·5	−11·2	−8·0
Mar.	−11·6	*−23·8*	−5·8	−12·1	+3·0	+7·0	−1·5	−0·6	+1·0	−2·4	−0·7	+12·5	+16·0	*+31·1*	+20·5	+2·9	+11·9	+0·8	−14·3	−1·3	−4·9	−13·4	−11·2	−3·1
Apr.	−5·3	−4·4	−2·8	−11·2	−3·4	+1·9	+7·3	+17·9	−0·8	−17·2	−3·5	+6·9	+24·5	*+32·9*	+23·1	+15·3	+10·2	−12·9	−12·3	*−25·9*	−9·1	−7·9	−8·5	−14·8
May	−3·6	−0·9	−10·3	−14·4	−14·1	−11·1	−7·2	−14·3	*−16·8*	−8·5	+3·1	+9·2	+20·6	*+26·8*	+25·4	+22·9	+17·5	+9·1	+4·7	−3·7	−8·5	−7·8	−10·7	−7·3
June	−16·9	−17·1	−5·6	−15·9	−19·5	−22·8	−27·5	*−29·0*	−24·6	−13·6	−2·0	+9·8	+23·3	+34·3	+36·3	*+36·4*	+21·3	+20·0	+22·3	+16·3	+4·1	−9·0	−10·9	−9·6
July	−9·7	−7·3	−6·9	−7·1	−14·5	−17·8	*−22·6*	−18·9	−18·0	−14·0	−5·1	+11·0	+21·9	*+28·3*	+26·0	+21·8	+14·8	+8·8	+5·8	+2·9	+1·7	−0·9	−0·5	+0·4
Aug.	−7·7	−8·7	−12·3	−10·2	−23·3	*−24·1*	−13·3	−0·7	−4·2	−2·1	+5·1	+22·2	*+34·5*	+29·9	+23·4	+16·8	+11·2	+0·5	+3·3	−2·5	−4·3	−8·4	−9·2	−17·1
Sept.	−8·6	−16·2	−6·0	−14·7	−13·1	−8·5	−6·5	−8·7	−12·2	−6·8	+2·5	+16·4	+29·9	*+32·3*	+31·8	+14·8	+15·8	+8·7	+3·5	*−18·5*	−8·7	−9·3	−4·9	−12·8
Oct.	−17·0	−26·5	−18·3	+6·4	−1·0	−2·5	−3·3	−5·6	−7·8	−3·6	+11·3	+24·4	+28·0	+33·5	*+38·1*	+35·7	+16·5	+7·1	−4·1	−9·6	−22·1	−18·2	−22·0	*−39·1*
Nov.	−9·8	−7·5	−5·5	+1·3	+0·7	+2·8	+4·4	+3·5	+4·6	+4·6	+5·4	+15·3	+18·3	*+24·9*	+23·7	+10·2	+1·6	−5·0	−1·6	−6·8	−9·3	−19·3	*−31·7*	−24·9
Dec.	−8·3	+1·8	+3·9	−0·2	+5·9	+20·9	+13·0	+11·7	+11·7	+9·4	+5·1	−3·8	+2·7	+11·6	+12·6	*+48·5*	+23·7	−2·8	−6·3	−19·8	−30·7	−33·1	*−40·9*	−36·5
Year	−8·6	−9·3	−4·9	−6·6	−6·5	−1·8	−0·9	+0·1	−3·2	−2·7	+4·3	+12·9	+21·5	*+26·7*	+23·6	+19·2	+11·5	−3·5	−4·5	−10·6	−12·5	−13·9	−15·0	*−15·3*
Winter	−5·7	−1·7	+2·3	−0·1	+2·0	+14·1	+15·9	+15·2	+11·3	+8·9	+9·8	+10·6	+14·9	*+17·9*	+14·6	+16·1	+4·8	−20·9	−15·8	−21·1	−24·7	−23·0	*−25·3*	−20·1
Equinox	−10·6	*−17·7*	−8·3	−7·9	−3·6	−0·5	−1·0	+0·8	−4·9	−7·5	+2·4	+15·0	+24·6	*+32·5*	+28·4	+17·2	+13·6	+0·9	−6·8	−13·8	−11·2	−12·2	−11·6	−17·5
Summer	−9·5	−8·5	−8·7	−11·8	−17·9	*−18·9*	−17·6	−15·7	−15·9	−9·6	+0·5	+13·0	+25·0	*+29·8*	+27·7	+24·4	+16·2	+9·5	+9·0	+3·3	−1·7	−6·5	−7·8	−8·4

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.	−19·8	*−26·7*	−19·2	−20·0	−17·6	−13·9	−11·4	−9·8	−6·0	−2·7	−0·2	+1·2	+2·6	+10·5	+18·0	+24·4	+26·0	*+36·7*	+28·4	+20·0	+9·8	−2·5	−12·8	−15·0
Feb.	−15·4	−22·6	−27·5	−17·8	−24·4	−28·2	*−29·2*	−25·0	−14·9	−3·0	+3·6	+6·2	+12·8	+28·8	+33·3	*+34·2*	+31·8	+32·2	+24·2	+19·6	+3·9	−8·2	−8·0	−6·4
Mar.	−29·6	−38·7	−46·8	*−49·8*	−47·6	−26·9	−13·6	−5·6	−1·6	+4·5	+6·6	+7·8	+13·6	+18·7	+30·0	*+42·8*	+33·4	+27·1	+24·2	+20·2	+17·0	+12·5	+7·0	−5·2
Apr.	−21·2	−27·9	−33·5	*−33·8*	−25·9	−18·7	−14·8	−16·1	−19·7	−4·8	+1·1	+11·3	+2·2	+7·9	+17·3	+27·6	+31·7	*+37·9*	+35·6	+33·1	+21·5	+11·6	−7·1	−15·3
May	−20·6	−22·3	−14·6	−7·9	−5·9	−8·0	−11·9	−9·5	−8·2	−10·3	−12·0	−9·1	−6·0	+4·5	+18·2	+22·9	*+34·1*	+29·8	+28·9	+25·7	+16·2	−0·1	−9·4	*−24·5*
June	−5·6	−6·6	−8·9	−13·0	−15·6	*−16·0*	−12·4	−8·6	−9·3	−11·0	−12·8	−12·8	−7·4	−3·4	+2·3	+13·8	+28·2	*+29·8*	+25·4	+21·6	+18·3	+12·6	+3·4	−12·0
July	−1·8	−3·7	−3·8	−4·7	−3·2	−3·5	−5·0	−6·3	−5·0	−7·5	−10·8	*−11·1*	−7·8	−2·5	+1·2	+4·9	+9·8	*+13·1*	+11·6	+11·3	+10·2	+7·7	+4·8	+2·1
Aug.	−16·0	−19·8	*−39·1*	−37·2	−26·6	−14·2	−9·2	−10·4	−6·7	−3·8	−1·6	−1·4	+2·2	+8·6	+16·1	+21·6	+25·6	*+30·4*	+27·6	+25·4	+19·9	+8·8	+2·8	−3·0
Sept.	−9·7	−19·9	*−20·7*	−19·9	−12·9	−9·8	−7·9	−4·3	−1·5	−3·9	−6·3	−6·7	−4·1	+1·7	+9·9	+21·3	+20·3	+18·4	+20·1	*+24·9*	+15·1	+9·3	−2·7	−10·7
Oct.	*−52·5*	−48·0	−44·3	−47·6	−21·4	−4·5	+4·2	+5·8	+4·9	+5·8	+4·1	+5·4	+9·3	+10·4	+13·7	+20·8	*+37·6*	+36·7	+35·4	+32·2	+24·7	+9·2	−14·7	−27·2
Nov.	−10·2	−10·8	−11·6	−15·8	*−19·2*	−18·6	−17·4	−14·6	−11·6	−8·6	−5·6	−4·6	+1·6	+8·0	+12·4	+21·4	*+27·4*	*+27·4*	+26·0	+19·6	+12·6	+3·6	−3·8	−7·6
Dec.	−25·2	−25·0	−25·9	−25·4	−25·6	−33·4	−33·6	−28·8	−27·5	−25·8	−22·4	−16·2	−11·4	−1·6	+44·5	+58·6	*+112·8*	+68·8	+47·4	+34·8	+12·3	−0·8	−16·6	*−34·0*
Year	−19·0	−22·7	*−24·7*	−24·4	−20·5	−16·3	−13·5	−11·1	−8·9	−5·9	−4·7	−2·5	+0·6	+7·6	+18·1	+26·2	*+34·9*	+32·4	+27·9	+24·0	+15·1	+5·3	−4·8	−13·2
Winter	−17·7	−21·3	−21·1	−19·7	−21·7	*−23·5*	−22·9	−19·5	−15·0	−10·0	−6·1	−3·3	+1·4	+11·4	+27·1	+34·7	*+49·5*	+41·3	+31·5	+23·5	+9·7	−2·0	−10·3	−15·7
Equinox	−28·3	−33·6	−36·3	*−37·8*	−26·9	−15·0	−8·0	−5·1	−4·5	+0·4	+1·4	+4·5	+5·3	+9·7	+17·7	+28·1	*+30·7*	+30·0	+28·8	+27·6	+19·6	+10·7	−4·4	−14·6
Summer	−11·0	−13·1	*−16·6*	−15·7	−12·8	−10·4	−9·6	−8·7	−7·3	−8·1	−9·3	−8·6	−4·7	+1·8	+9·5	+15·8	+24·4	*+25·8*	+23·4	+21·0	+16·1	+7·3	+0·4	−9·3

INTERNATIONAL DISTURBED DAYS

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

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DECLINATION (measured positive towards the west)

	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
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	+0·07	+1·61	+2·50	+0·37	-0·05	+2·33	+3·09	+3·85	+3·16	+3·51	+3·87	+3·61	*+4·33*	+3·87	+2·06	+0·65	-0·55	*-9·37*	-6·63	-4·91	-5·88	-4·49	-4·45	-2·55
Feb.	-1·76	-1·79	-0·48	-1·32	-1·38	+3·81	*+5·68*	+4·82	+2·38	+1·77	+3·38	+3·60	+5·08	+5·19	+3·62	+1·50	-0·18	-5·41	-4·78	-7·04	*-7·52*	-5·05	-2·44	-1·68
Mar.	-2·51	*-4·83*	-0·77	-2·05	+1·03	+1·12	-0·51	+0·37	+1·09	+0·39	+0·99	+3·77	+4·53	*+6·49*	+4·57	+0·23	+2·03	-0·44	-4·29	-0·81	-1·93	-3·51	-3·07	-1·89
Apr.	-1·95	-2·01	-1·69	-3·43	-1·81	-0·90	+1·17	+5·51	+1·83	-0·35	+3·11	+3·73	+5·77	*+7·13*	+4·97	+3·17	+1·81	-3·56	-3·41	*-6·25*	-2·65	-2·61	-3·31	-4·27
May	-1·20	-0·18	-2·24	*-3·16*	-3·10	-2·01	-1·52	-2·78	-3·04	-0·82	+2·00	+3·78	+5·52	*+6·14*	+5·38	+3·98	+3·20	+0·65	+0·10	-1·48	-2·46	-2·64	-2·66	-1·46
June	-3·78	-3·29	-1·14	-3·61	-4·42	-5·03	*-5·74*	-5·11	-4·06	-1·53	+0·70	+2·83	+5·78	*+7·63*	+7·56	+7·07	+3·72	+3·47	+3·70	+2·51	+0·26	-2·47	-2·80	-2·25
July	-2·59	-2·01	-1·79	-2·07	-3·45	-4·10	*-4·75*	-3·77	-3·15	-1·63	+0·33	+3·65	+5·93	*+6·83*	+5·81	+4·47	+2·65	+1·28	+0·57	-0·15	-0·37	-0·81	-0·61	-0·27
Aug.	-1·96	-2·61	-2·64	-2·90	-5·34	*-5·53*	-2·40	+0·28	+0·18	+0·69	+2·54	+5·88	*+8·06*	+6·83	+5·06	+3·42	+2·12	-0·19	-0·02	-1·52	-1·84	-2·31	-2·32	-3·48
Sept.	-2·62	-3·78	-1·25	-3·24	-3·00	-2·06	-1·32	-1·64	-2·01	-0·64	+0·94	+4·38	+6·96	*+7·40*	+7·27	+3·26	+3·34	+1·48	+0·38	*-4·48*	-1·79	-2·28	-1·96	-3·34
Oct.	-3·00	-5·30	-3·36	+1·40	-0·66	-1·16	-1·08	-1·58	-2·04	-0·46	+2·94	+5·88	+6·00	+6·70	*+7·50*	+6·94	+3·22	+1·44	-0·78	-2·02	-4·62	-4·12	-4·44	*-7·40*
Nov.	-2·42	-1·97	-1·50	-0·15	-0·57	-0·38	+0·07	+0·35	+1·04	+1·09	+1·56	+3·65	+4·72	*+6·01*	+5·54	+2·53	+0·67	-0·70	+0·19	-1·29	-1·94	-4·35	*-6·90*	-5·25
Dec.	-1·94	+0·29	+0·54	-0·47	+0·66	+3·65	+2·00	+2·25	+2·50	+1·93	+0·94	-0·31	+0·60	+2·17	+2·78	*+8·17*	+2·78	+0·05	+0·70	-2·97	-5·30	-5·93	*-7·72*	-7·37
Year	-2·14	-2·16	-1·15	-1·72	-1·84	-0·85	-0·44	+0·21	-0·18	+0·33	+1·94	+3·70	+5·27	*+6·03*	+5·18	+3·78	+2·07	-0·94	-1·19	-2·53	-3·00	-3·38	*-3·56*	-3·43
Winter	-1·51	-0·47	+0·27	-0·39	-0·33	+2·35	+2·71	+2·82	+2·27	+2·07	+2·44	+2·64	+3·68	*+4·31*	+3·50	+3·21	+0·68	-3·86	-2·63	-4·05	-5·16	-4·95	*-5·38*	-4·21
Equinox	-2·52	-3·98	-1·77	-1·83	-1·11	-0·75	-0·43	+0·67	-0·28	-0·27	+1·99	+4·44	+5·81	*+6·93*	+6·08	+3·40	+2·60	-0·27	-2·03	-3·39	-2·75	-3·13	-3·19	*-4·23*
Summer	-2·38	-2·02	-1·95	-2·93	-4·08	*-4·17*	-3·60	-2·85	-2·52	-0·82	+1·39	+4·03	+6·32	*+6·86*	+5·95	+4·73	+2·92	+1·30	+1·09	-0·16	-1·10	-2·06	-2·10	-1·87

INCLINATION

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	-0·76	-0·70	-0·48	-1·25	-1·16	-0·90	-1·02	-0·90	-0·61	+0·24	+0·59	+0·22	+0·40	+0·79	+0·66	+1·31	+1·29	*+2·01*	+1·45	+1·28	+0·03	-0·37	*-1·38*	-0·71
Feb.	-1·10	-0·40	-1·11	-0·64	*-2·36*	-1·33	-1·56	-1·50	-0·83	+0·56	+1·13	+0·85	+1·69	*+2·45*	+2·04	+1·58	+1·02	+1·68	+0·44	+0·27	-0·95	-1·52	-0·28	-0·13
Mar.	-0·79	-0·60	-0·47	-0·44	-0·59	-1·21	-0·61	+0·60	+1·25	+1·45	+1·83	+1·83	*+1·98*	+0·24	+1·02	+0·49	+0·07	-0·21	-1·23	-0·29	-0·88	-0·66	-0·83	*-1·94*
Apr.	-1·72	-2·26	*-2·44*	-2·37	-2·23	-2·38	-0·93	+2·07	+2·44	+4·75	*+5·68*	+3·60	+0·86	+0·36	+0·50	+0·56	+0·25	-0·26	-0·28	-0·26	-0·50	-1·07	-2·38	-2·00
May	-1·15	-0·53	-0·43	-0·34	-0·27	+0·32	-0·27	+0·15	+0·61	+1·21	+1·67	*+2·45*	+1·52	+0·73	+0·38	-0·76	+0·08	-1·14	-0·60	-0·39	-0·54	*-1·42*	-0·80	-0·47
June	-0·40	+0·35	-0·15	-0·67	-0·79	-0·67	-0·15	+1·35	+1·52	*+1·76*	+1·34	+0·79	+1·05	+0·40	-0·19	-0·65	-0·50	-0·43	*-0·90*	-0·88	-0·46	-0·50	-0·62	-0·59
July	-0·83	-0·77	-0·57	*-0·96*	-0·61	-0·55	-0·04	+0·21	+0·88	+1·82	*+1·83*	+1·67	+1·70	+1·14	+0·45	-0·14	-0·51	-0·54	-0·69	-0·85	-0·83	-0·74	-0·63	-0·47
Aug.	-0·88	-1·62	-1·02	*-2·01*	-1·23	-0·94	+0·39	+0·38	+1·43	+1·60	*+1·80*	+1·68	+1·11	+0·90	+0·53	+0·29	+0·23	+0·32	-0·37	-0·84	-0·89	-0·56	-0·48	+0·17
Sept.	*-1·40*	-0·97	-0·46	-0·66	-0·64	-0·59	-0·09	+0·20	+0·84	+1·11	+0·45	*+1·15*	+0·77	+0·80	+0·97	+0·68	+0·46	-0·10	-0·03	-0·16	+0·45	-0·22	*-1·40*	-1·16
Oct.	-0·37	-0·68	-0·29	-1·12	*-1·19*	-1·03	-0·44	-0·44	-0·43	+0·61	+0·88	*+1·13*	+0·28	-0·40	-0·58	-0·47	+0·49	+0·80	+1·03	+0·85	+0·76	-0·13	+0·01	+0·71
Nov.	-0·75	-0·81	-0·79	-1·01	-1·53	*-1·91*	-1·71	-0·95	-0·19	-0·06	+0·46	+0·45	+1·23	+1·24	+1·04	+1·05	+1·16	+1·23	*+1·42*	+0·72	+0·37	-0·25	-0·30	-0·10
Dec.	-0·87	-0·75	-1·07	-1·25	-1·53	*-2·02*	-1·99	-1·08	-0·68	-0·76	-0·77	+0·35	-0·25	-0·49	+1·25	-1·78	-0·57	+2·66	*+4·21*	+2·72	+2·15	+1·67	+1·08	-0·22
Year	-0·92	-0·81	-0·77	-1·06	*-1·17*	-1·10	-0·70	+0·01	+0·52	+1·19	*+1·41*	+1·35	+1·03	+0·68	+0·67	+0·18	+0·29	+0·50	+0·37	+0·18	-0·11	-0·48	-0·67	-0·58
Winter	-0·87	-0·67	-0·86	-1·03	*-1·64*	-1·54	-1·57	-1·10	-0·57	-0·01	+0·35	+0·47	+0·77	+1·00	+1·25	+0·54	+0·72	*+1·89*	+1·88	+1·25	+0·40	-0·12	-0·22	-0·29
Equinox	-1·07	-1·12	-0·91	-1·15	-1·16	*-1·30*	-0·51	+0·61	+1·03	+1·98	*+2·21*	+1·93	+0·97	+0·25	+0·48	+0·31	+0·32	+0·06	-0·13	+0·04	-0·04	-0·52	-1·15	-1·10
Summer	-0·81	-0·64	-0·54	*-1·00*	-0·72	-0·45	-0·02	+0·52	+1·11	+1·60	*+1·66*	+1·65	+1·35	+0·79	+0·30	-0·32	-0·18	-0·45	-0·64	-0·74	-0·69	-0·81	-0·63	-0·34

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.	+4·0	+0·6	0·0	+11·2	+10·8	+8·3	+11·0	+9·8	+6·8	-4·6	-8·8	-2·8	-5·0	-7·8	-3·2	-10·4	-9·6	*-16·3*	-11·0	-11·6	+3·2	+4·6	*+15·8*	+5·0
Feb.	+10·6	-2·4	+6·4	+3·0	*+26·0*	+9·3	+12·4	+13·0	+6·8	-9·4	-15·4	-10·4	-20·4	*-25·8*	-18·0	-10·8	-3·4	-13·1	+2·4	+3·2	+15·6	+19·6	+1·2	-0·4
Mar.	+0·8	-5·3	-10·3	-11·8	-8·7	+8·1	+4·0	-10·9	-19·1	-19·8	*-24·7*	-24·3	-24·4	+3·3	-4·1	+8·4	+11·3	+13·1	*+27·2*	+11·7	+19·3	+14·4	+14·9	+26·9
Apr.	+17·7	+23·2	+23·9	+22·7	+23·5	+28·4	+8·3	-36·7	-43·5	-72·2	*-83·9*	-49·3	-11·9	-2·4	-1·1	+1·9	+7·9	+17·8	+17·3	+16·1	+15·3	+20·2	*+32·7*	+24·1
May	+9·4	-0·3	+1·0	+2·1	+1·8	-7·7	-0·4	-5·7	-12·0	-21·7	-29·2	*-39·7*	-24·8	-9·1	+1·0	+19·7	+11·4	*+27·9*	+19·6	+15·3	+14·0	+21·1	+8·4	-2·1
June	+3·9	-7·6	-1·0	+5·1	+6·0	+4·0	-2·3	-23·2	-26·0	*-30·1*	-24·6	-16·4	-18·3	-7·2	+3·6	+14·7	+17·8	+17·4	*+22·7*	+21·0	+13·6	+12·1	+10·4	+4·4
July	+11·7	+10·0	+7·1	+12·5	+7·9	+6·8	-1·3	-5·5	-14·9	-29·8	*-31·1*	-28·9	-28·1	-17·8	-6·3	+3·9	+11·1	+12·8	+14·5	*+16·7*	+16·1	+13·8	+11·1	+7·7
Aug.	+7·1	+16·8	+0·7	+16·2	+8·4	+8·7	-9·2	-9·4	-23·7	-25·2	*-27·3*	-25·4	-15·7	-10·2	-1·9	+3·6	+6·0	+6·5	+15·6	*+21·8*	+20·5	+11·6	+8·1	-3·6
Sept.	+17·2	+7·1	-0·8	+2·5	+4·7	+5·2	-1·5	-4·5	-13·0	-17·9	-9·0	*-19·5*	-13·0	-11·3	-10·8	-2·3	+0·7	+8·2	+7·9	+11·5	-1·2	+6·7	*+19·8*	+13·3
Oct.	-13·9	-7·6	-12·0	-0·9	+9·8	+13·6	+8·1	+8·6	+8·2	-6·9	-11·6	-14·8	-0·7	+9·8	+13·6	*+14·7*	+6·6	+1·6	-2·3	-0·8	-2·2	+5·3	-5·6	*-20·6*
Nov.	+7·3	+8·1	+7·4	+9·1	+15·7	*+21·5*	+18·9	+8·7	-1·4	-2·3	-8·9	-8·3	*-17·7*	-15·5	-10·8	-7·7	-7·1	-8·1	-11·5	-3·5	-0·8	+5·1	+3·1	-1·3
Dec.	+3·7	+2·0	+6·3	+9·2	+13·2	+17·7	+17·2	+5·4	-0·1	+1·8	+3·1	-11·2	-0·5	+6·6	-2·1	+48·0	*+50·0*	-14·1	*-45·0*	-27·6	-27·3	-25·0	-22·1	-9·2
Year	+6·6	+3·7	+2·4	+6·7	+9·9	*+10·3*	+5·4	-4·2	-11·0	-19·8	*-22·6*	-20·9	-15·0	-7·3	-3·3	+7·0	+8·6	+4·5	+4·8	+6·1	+7·2	+9·1	+8·1	+3·7
Winter	+6·4	+2·1	+5·0	+8·1	*+16·4*	+14·2	+14·9	+9·2	+3·0	-3·6	-7·5	-8·2	-10·9	-10·6	-8·5	+4·8	+7·5	-12·9	*-16·3*	-9·9	-2·3	+1·1	-0·5	-1·5
Equinox	+5·5	+4·3	+0·2	+3·1	+7·3	+13·8	+4·7	-10·9	-16·9	-29·2	*-32·3*	-27·0	-12·5	-0·1	-0·6	+5·7	+6·6	+10·2	+12·5	+9·6	+7·8	+11·7	*+15·5*	+10·9
Summer	+8·0	+4·7	+1·9	+9·0	+6·0	+2·9	-3·3	-10·9	-19·1	-26·7	*-28·1*	-27·6	-21·7	-11·1	-0·9	+10·5	+11·6	+16·1	+18·1	*+18·7*	+16·1	+14·7	+9·5	+1·6

RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1944

The ranges are derived from the diurnal inequalities printed in Tables 150 to 155

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	All days			Quiet days			Disturbed days			All days			Quiet days			Disturbed days		
	N	W	V	N	W	V	N	W	V	D	I	H	D	I	H	D	I	H
	γ	γ	γ	γ	γ	γ	γ	γ	γ	′	′	γ	′	′	γ	′	′	γ
Jan.	14.0	31.5	21.9	9.1	24.1	10.2	32.6	67.7	63.4	6.86	1.18	13.1	5.06	0.79	10.9	13.70	3.39	32.1
Feb.	21.1	25.1	18.9	18.7	25.9	7.2	57.4	61.6	63.4	5.81	1.34	16.4	5.48	0.97	16.2	13.20	4.81	51.8
Mar.	34.6	35.7	31.0	24.7	29.8	11.0	59.5	54.9	92.6	8.30	1.98	29.2	6.77	1.33	23.0	11.32	3.92	51.9
Apr.	48.3	40.4	29.0	33.2	40.2	16.6	120.6	58.8	71.7	8.28	3.10	47.0	8.80	1.94	33.2	13.38	8.12	116.6
May	42.5	41.8	26.8	38.8	44.2	21.0	69.3	43.6	58.6	8.91	2.19	42.1	9.56	2.23	40.0	9.30	3.87	67.6
June	41.5	52.6	26.4	37.5	47.7	23.8	46.2	65.4	45.8	10.89	2.38	43.6	9.88	2.25	39.2	13.37	2.66	52.8
July	44.4	50.9	21.3	44.1	46.1	13.1	50.1	50.9	24.2	10.86	2.56	44.6	9.65	2.77	45.4	11.58	2.79	47.8
Aug.	41.3	46.4	23.0	39.8	46.1	20.8	53.8	58.6	69.5	10.31	2.31	40.8	9.62	2.34	38.4	13.59	3.81	49.1
Sept.	35.2	42.0	17.9	34.3	37.2	11.2	45.0	50.8	45.6	8.79	2.01	32.5	7.76	2.14	34.9	11.88	2.55	39.3
Oct.	28.7	37.6	26.2	32.4	34.4	9.8	35.0	77.2	90.1	8.21	1.52	22.3	7.38	2.02	32.3	14.90	2.32	35.3
Nov.	18.1	24.4	13.9	12.9	16.4	4.4	43.5	56.6	46.6	5.50	1.16	16.2	3.33	0.77	11.0	12.91	3.33	39.2
Dec.	14.1	29.8	33.5	9.7	16.7	6.2	90.7	89.4	146.8	5.92	1.51	14.2	3.33	0.66	10.6	15.89	6.23	95.0
Year	28.0	31.9	19.6	25.9	31.7	11.1	36.6	42.0	59.6	6.91	1.49	25.7	6.75	1.50	25.5	9.59	2.58	32.9
Winter	15.1	27.2	20.9	10.0	17.9	5.2	31.2	43.2	73.0	5.97	1.07	13.2	3.66	0.57	8.3	9.69	3.53	32.7
Equinox	35.8	36.4	25.0	30.7	35.5	11.4	52.0	50.2	68.5	8.27	2.05	31.9	7.67	1.82	29.8	11.16	3.51	47.8
Summer	41.7	46.6	23.9	38.4	44.7	19.1	49.5	48.7	42.4	10.18	2.30	41.9	9.45	2.29	39.4	11.03	2.66	46.8

NON-CYCLIC CHANGE

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	All days			Quiet days			Disturbed days		
	H	D	V	H	D	V	H	D	V
	γ	′	γ	γ	′	γ	γ	′	γ
Jan.	+0.3	+0.10	+0.9	+5.3	-0.42	-0.4	-0.3	+1.86	+0.6
Feb.	+0.8	+0.13	-0.5	+5.0	+0.69	-1.1	-6.3	+1.54	+0.7
Mar.	-0.3	-0.07	0.0	+3.6	-0.57	-1.6	+3.0	+2.11	+9.0
Apr.	+0.9	-0.03	-0.5	+1.0	+0.76	+0.4	-9.0	0.00	+9.3
May	-0.4	-0.01	+0.6	+2.4	+0.49	+0.6	-8.9	+0.44	-11.5
June	+0.3	+0.01	-0.1	+2.3	+0.01	-1.7	-9.2	-0.38	-7.2
July	-0.4	-0.05	-0.2	-0.1	-0.45	-0.9	-6.6	+0.16	+3.1
Aug.	-0.3	-0.04	-0.4	+4.1	-0.05	-2.7	-14.3	-1.54	-6.2
Sept.	+0.2	-0.13	-0.5	+3.4	-0.14	0.0	-3.5	+0.42	-5.9
Oct.	-0.2	+0.15	+1.3	+4.1	+0.99	+2.1	-4.7	+2.32	+15.0
Nov.	+0.1	-0.02	0.0	+3.1	+0.67	-1.0	-8.3	-1.02	+2.4
Dec.	-0.9	-0.09	+0.4	+0.8	+0.14	-0.4	-19.2	-3.52	-7.7
Year	0.0	0.00	+0.1	+2.9	+0.18	-0.6	-7.3	+0.20	+0.1
Winter	+0.1	+0.03	+0.2	+3.5	+0.27	-0.7	-8.5	-0.29	-1.0
Equinox	+0.1	-0.02	+0.1	+3.0	+0.26	+0.1	-3.5	+1.21	+6.9
Summer	-0.2	-0.02	0.0	+2.2	0.00	-1.2	-9.7	-0.33	-5.5

"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 V and for all days for N, W, I and T

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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				
	16,000γ +			12° +			44,000γ +						
	γ	γ	γ	′	′	′	γ	γ	γ	γ	γ	° ′	γ
Jan.	517	520	509	26.5	27.0	25.2	1094	1094	1094	16129	3559	69 53.0	48024
Feb.	519	524	508	26.1	25.9	25.9	1090	1089	1088	16132	3557	69 52.7	48020
Mar.	517	524	507	25.2	25.7	24.7	1086	1087	1078	16130	3553	69 52.8	48016
Apr.	519	526	499	24.7	24.6	25.2	1090	1090	1095	16132	3550	69 52.8	48021
May	530	532	524	24.0	23.8	24.4	1087	1085	1092	16144	3549	69 52.0	48022
June	534	535	534	23.3	24.0	22.8	1087	1087	1086	16149	3547	69 51.7	48023
July	532	531	529	22.9	22.6	23.1	1084	1083	1083	16147	3545	69 51.8	48019
Aug.	525	525	522	22.2	21.8	22.1	1080	1084	1071	16141	3540	69 52.1	48014
Sept.	524	527	519	21.3	21.6	20.7	1083	1083	1083	16141	3535	69 52.3	48016
Oct.	518	521	508	20.4	20.8	20.1	1094	1094	1088	16137	3530	69 52.9	48024
Nov.	526	530	517	20.0	19.6	20.4	1096	1094	1100	16145	3530	69 52.4	48029
Dec.	516	524	501	18.9	19.1	18.6	1105	1100	1125	16136	3523	69 53.3	48034
Year	523	527	515	23.0	23.1	22.8	1090	1089	1090	16139	3543	69 52.5	48022

HARMONIC COMPONENTS OF THE DIURNAL INEQUALITY OF MAGNETIC FORCE

Values of a_n, b_n in the series $\Sigma(a_n \cos 15nt + b_n \sin 15nt)$, t being reckoned in hours from midnight G.M.T.

Longitude of Eskdalemuir Observatory, 3°12′W.

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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	γ
												ALL DAYS												
Jan.	+3·3	+2·7	−2·1	−1·6	+1·8	−2·4	+0·3	+0·4	−10·4	+3·1	+0·2	+5·3	−0·3	+0·2	+0·9	+2·0	−2·2	−9·2	−3·0	−0·7	−0·6	−0·1	−0·9	−0·9
Feb.	+6·3	+1·8	−4·3	−2·7	+1·5	−1·4	−0·6	−0·2	−8·9	+0·1	+0·6	+4·1	−0·3	−2·0	+0·9	+1·5	−1·9	−8·7	−1·0	+0·9	+0·7	+0·1	−0·9	−0·5
Mar.	+11·7	−3·5	−5·5	−1·4	+3·4	−2·8	+0·2	+1·0	−10·5	−4·1	+1·0	+7·2	−1·3	−4·0	+1·2	+0·8	−3·5	−12·7	−4·8	−2·9	+1·7	0·0	−1·1	−0·7
Apr.	+17·5	−5·8	−8·5	+2·4	+2·1	−3·5	+1·2	+0·4	−7·6	−9·2	+2·7	+9·7	−0·7	−3·5	+0·8	+2·3	−0·9	−10·2	−6·5	−2·9	−0·2	+0·4	−0·1	−0·3
May	+13·9	−7·4	−8·1	+0·8	+2·1	−0·2	+0·1	0·0	−6·3	−15·0	+5·0	+7·2	−1·7	−1·1	+1·1	+0·5	+2·3	−8·1	−7·5	+0·3	+0·5	−0·9	−0·7	−0·3
June	+14·2	−7·3	−8·2	+1·2	+0·6	−2·3	+0·9	−0·1	−6·2	−19·3	+5·1	+8·4	−3·3	−1·4	−0·2	+1·1	+4·8	−6·7	−6·5	−1·1	+0·9	+0·6	−0·8	−0·2
July	+15·7	−5·9	−8·8	0·0	+1·0	−1·3	0·0	+0·7	−5·5	−18·3	+5·0	+8·9	−2·8	−2·3	−0·1	+0·7	+4·6	−4·3	−5·2	−0·9	+1·3	+0·4	−0·4	0·0
Aug.	+16·2	−5·0	−7·1	+0·6	+0·8	−2·2	+0·1	+0·7	−8·9	−14·6	+6·2	+6·3	−2·6	−2·1	+0·5	+1·7	+1·1	−8·6	−5·4	−2·2	+2·4	−1·1	−0·2	−0·8
Sept.	+13·7	−2·5	−6·4	−0·3	+1·8	−1·9	+1·0	+0·9	−10·1	−10·7	+3·1	+8·1	−2·9	−2·5	+1·9	+2·1	+0·3	−6·3	−5·4	−2·0	+1·6	−1·3	−1·7	−0·7
Oct.	+7·6	−1·1	−5·6	0·0	+2·3	−3·9	−1·3	+0·6	−10·9	−4·6	+2·0	+8·7	−3·0	−1·6	+1·9	+1·5	−4·1	−7·2	−6·3	−2·1	−0·1	−0·5	−1·0	+0·2
Nov.	+5·7	+2·6	−3·8	−1·3	+1·1	−1·9	+0·3	+0·2	−7·1	−1·8	+0·2	+4·7	−2·0	−0·8	+0·3	+1·5	−0·9	−6·3	−1·1	+0·6	+0·8	+0·3	−0·4	0·0
Dec.	−0·2	+2·3	−1·7	+0·5	+1·7	−2·2	+0·3	−1·6	−10·2	+0·5	−2·0	+5·1	0·0	+0·1	+0·7	0·0	−2·1	−12·1	−4·1	+1·9	+1·5	+0·8	−1·3	−1·4
Year	+10·5	−2·4	−5·8	−0·2	+1·7	−2·2	+0·2	+0·2	−8·5	−7·8	+2·4	+7·0	−1·8	−1·7	+0·8	+1·3	−0·2	−8·4	−4·7	−0·9	+0·9	−0·1	−0·8	−0·5
Winter	+3·8	+2·4	−3·0	−1·3	+1·5	−2·0	+0·1	−0·3	−9·1	+0·4	−0·2	+4·7	−0·7	−0·6	+0·7	+1·3	−1·8	−9·1	−2·3	+0·7	+0·6	+0·3	−0·9	−0·7
Equinox	+12·6	−3·2	−6·5	+0·2	+2·4	−3·0	+0·3	+0·7	−9·8	−7·1	+2·2	+8·5	−2·0	−2·9	+1·5	+1·7	−2·1	−9·1	−5·7	−2·5	+0·7	−0·4	−1·0	−0·4
Summer	+15·0	−6·5	−8·1	+0·6	+1·1	−1·5	+0·3	+0·3	−6·7	−16·8	+5·3	+7·7	−2·6	−1·7	+0·3	+1·0	+3·2	−6·9	−6·1	−1·0	+1·3	−0·3	−0·5	−0·3
												QUIET DAYS												
Year	+9·0	−1·8	−5·5	−0·5	+1·6	−1·3	−0·1	+0·7	−4·8	−9·4	+2·6	+5·7	−2·4	−2·0	+0·8	+1·2	+3·1	−1·5	−2·7	−0·1	+1·3	−0·1	−0·5	−0·2
Winter	+1·2	+0·1	−3·1	−0·9	+1·6	−0·9	−0·2	+0·3	−5·9	−3·6	+0·4	+2·8	−1·2	−0·5	+0·9	+0·9	+1·3	−2·1	0·0	0·0	+0·3	−0·4	−0·3	−0·2
Equinox	+11·5	−0·8	−6·3	−0·2	+2·5	−1·7	0·0	+1·3	−3·9	−9·0	+2·8	+6·5	−2·7	−3·2	+1·1	+1·7	+2·8	−1·0	−2·7	−0·1	+1·9	0·0	−1·0	−0·2
Summer	+14·3	−4·7	−7·0	−0·3	+0·9	−1·3	−0·1	+0·7	−4·6	−15·7	+4·5	+7·9	−3·2	−2·4	+0·3	+1·1	+5·3	−1·5	−5·4	−0·2	+1·7	−0·1	−0·2	−0·3
												DISTURBED DAYS												
Year	+14·1	−5·1	−7·6	+1·3	+1·4	−4·5	+0·1	−1·7	−14·5	−2·8	+2·6	+8·0	0·0	−3·5	+0·1	+2·0	−9·1	−23·2	−8·7	−1·1	+1·6	+0·7	−0·3	−0·9
Winter	+7·7	+3·5	−4·2	−0·5	+2·5	−4·2	−1·5	−4·1	−15·3	+10·0	+0·5	+7·3	+2·7	−3·0	−0·9	+2·6	−10·7	−28·1	−8·8	+5·0	+2·5	+3·5	−0·9	−2·0
Equinox	+17·2	−8·2	−7·8	+2·8	+1·2	−6·5	+2·7	−0·1	−16·0	−2·4	+2·2	+9·4	−0·9	−5·8	+0·8	+1·5	−14·1	−22·1	−9·1	−6·1	+1·2	−1·3	+0·4	−0·1
Summer	+17·5	−10·5	−10·9	+1·5	+0·5	−2·8	−0·9	−1·1	−12·1	−16·3	+4·9	+7·3	−1·9	−1·9	+0·3	+2·0	−2·4	−19·2	−8·1	−2·2	+0·9	−0·1	−0·4	−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.	4·3	53	2·6	239	3·0	153	0·5	49	10·8	290	5·3	9	0·4	317	2·2	37	9·4	197	3·0	263	0·6	271	1·3	237
Feb.	6·6	77	5·1	245	2·1	143	0·6	263	8·9	274	4·1	15	2·0	199	1·8	44	9·0	195	1·3	317	0·7	94	1·0	253
Mar.	12·2	110	5·7	262	4·4	139	1·0	23	11·3	252	7·3	15	4·2	208	1·5	71	13·1	199	5·6	245	1·7	100	1·3	250
Apr.	18·4	111	8·9	292	4·1	159	1·3	85	11·9	223	10·1	22	3·5	201	2·4	32	10·2	188	7·1	252	0·5	340	0·3	215
May	15·7	121	8·1	282	2·1	104	0·1	97	16·3	206	8·8	41	2·0	248	1·2	78	8·4	167	7·5	279	1·0	160	0·8	259
June	16·0	120	8·3	285	2·4	175	0·9	112	20·3	101	9·8	37	3·5	256	1·1	360	8·3	148	6·7	267	1·1	69	0·8	266
July	16·7	114	8·8	276	1·6	150	0·7	11	19·1	200	10·2	36	3·6	241	0·7	1	6·3	136	5·3	266	1·4	83	0·4	280
Aug.	16·9	110	7·2	281	2·4	169	0·7	23	17·1	214	8·9	51	3·3	241	1·7	28	8·7	176	5·8	254	2·6	123	0·8	205
Sept.	13·9	104	6·4	274	2·7	146	1·3	64	14·7	227	8·7	27	3·9	240	2·9	55	6·3	180	5·8	256	2·0	138	1·8	261
Oct.	7·7	101	5·6	276	4·6	159	1·5	309	11·8	250	9·0	19	3·4	252	2·4	65	8·3	213	6·7	258	0·5	198	1·0	296
Nov.	6·2	69	4·0	257	2·2	160	0·3	73	7·3	259	4·7	9	2·1	258	1·5	26	6·4	191	1·3	307	0·8	76	0·4	278
Dec.	2·3	359	1·8	293	2·8	151	1·7	181	10·2	276	5·4	345	0·1	3	0·7	99	12·3	193	4·6	301	1·7	72	1·9	238
Year	10·8	106	5·8	275	2·8	151	0·3	55	11·6	231	7·4	25	2·5	235	1·5	45	8·4	185	4·8	265	0·9	108	0·9	252
Winter	4·5	61	3·2	253	2·5	152	0·3	178	9·1	276	4·8	4	0·9	236	1·5	43	9·3	194	2·4	294	0·7	75	1·1	243
Equinox	13·0	107	6·5	278	3·9	151	0·7	34	12·1	237	8·7	21	3·5	224	2·2	54	9·3	196	6·3	253	0·8	126	1·1	262
Summer	16·3	117	8·1	281	1·9	153	0·4	56	18·1	205	9·4	41	3·1	247	1·0	28	7·7	158	6·2	267	1·3	111	0·6	251
												QUIET DAYS												
Year	9·2	105	5·5	271	2·1	139	0·7	3	10·6	210	6·3	31	3·1	240	1·4	45	3·5	119	2·7	274	1·3	106	0·6	259
Winter	1·2	87	3·2	261	1·8	131	0·4	332	6·9	242	2·8	14	1·3	257	1·3	55	2·5	151	0·0	51	0·5	150	0·4	242
Equinox	11·5	97	6·3	275	3·0	133	1·3	12	9·8	207	7·1	30	4·2	231	2·0	47	3·0	113	2·7	274	1·9	99	1·0	272
Summer	15·0	112	7·0	274	1·6	157	0·7	5	16·3	199	9·1	36	4·0	243	1·1	31	5·6	109	5·4	274	1·7	101	0·3	232
												DISTURBED DAYS												
Year	15·0	113	7·7	286	4·7	172	1·7	190	14·7	262	8·4	24	3·5	190	2·0	15	24·9	205	8·7	269	1·7	76	0·9	213
Winter	8·5	69	4·2	270	4·9	159	4·3	213	18·3	306	7·3	11	4·0	147	2·7	353	30·1	204	10·2	306	4·4	45	2·2	219
Equinox	19·1	119	8·3	296	6·6	179	2·7	104	16·2	265	9·7	20	5·9	198	1·7	41	26·2	216	10·9	243	1·8	147	0·4	120
Summer	20·4	124	11·0	284	2·9	179	1·5	232	20·3	220	8·8	41	2·7	234	2·0	22	19·4	190	8·4	261	1·0	108	0·7	232

KEW

KEW OBSERVATORY

Latitude	51°28′N.
Longitude	0°19′W.
G.M.T. of Local Mean Noon	12h. 1m.

Heights of instruments	above M.S.L.	above ground
	m.	m.
Barometer	10·4	..
Thermometer bulbs	..	3·0
Rain-gauge site	5·5	..
Beckley rain-gauge rim	..	0·53
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 i.e. 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* for 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 sq. in., is set up 8·5 m. S.S.W. of the standard check gauge with the rim at exactly the same height above ground level as was the old Beckley gauge, i.e. 0·53 m. The hourly readings are adjusted to give totals in agreement with the check gauge read daily at 7h. and 18h. before 1 August 1944, and at 6h. and 18h. thereafter.

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./hr. or more. This gauge stands on the lawn about 6·5 m. W.N.W. of the tilting-siphon recorder. The Jardi rate-of-rainfall recorder has proved to be unreliable at rates below 6 mm./hr. and such values are omitted from Table 169.

Solar radiation.– The tabulations of the radiation received on a surface perpendicular to the solar beam (Tables 173 and 175) were made on the assumption that the thermopile of the Gorczynski pyrheliograph had maintained its sensitivity. Subsequent investigation indicated that a progressive decrease in sensitivity had occurred and that all tabulations from 1938 onwards needed correction. The tabulated values for 1944 should be multiplied by the factor 1·26*.

Minimum temperature on the grass.– From 1 August 1944 onwards, although the thermometer continued to be set at 18h. it was read at 6h. instead of at 7h. Values printed thereafter refer to the period 18h. on the previous day, to 6h. on the day of entry.

IDENTIFICATION NUMBERS OF INSTRUMENTS IN USE IN 1944

During 1944 thermometer No. 788 was used as the control dry-bulb thermometer and No. 738 as the control wet-bulb thermometer; 1884 was used throughout as the measuring glass for the control rain-gauge.

Thermometer corrections 1944

	No.788 N.P.L.1933		No.738 N.P.L.1938		M.O.5 N.P.L.1913		M.O.10 N.P.L.1913		M.O.18011 N.P.L.1929	
	°F.		°F.		°A.		°A.		°F.	
Certified	2	+0·1	2	+0·2	250	+0·1	250	+0·3	2	0·0
	12	+0·1	12	+0·1	273	0·0	273	+0·1	22	0·0
	32	0·0	32	0·0	280	0·0	280	+0·2	32	0·0
	52	-0·1	52	-0·1	290	0·0	290	+0·1	52	0·0
	72	0·0	72	-0·1	300	0·0	300	0·0	72	0·0
	92	0·0	92	-0·2	310	0·0	316	+0·1	..	..
Applied		0·0		0·0		0·0		+0·1		0·0

NOTES ON THE METEOROLOGICAL SUMMARIES

The mean temperature for the year 1944, 283·3°A. (50·5°F.), was again higher than the average of 282·8°A. (49·6°F.) for the period 1871–1915. January, with a mean temperature of 279·8°A. (44·1°F.), was 5·0°F. above the average whilst both April and August had mean temperatures 4°F. above average. There were 4 days, 3 in May and 1 in August, on which the maximum temperature in the north-wall screen exceeded 300·0°A. (80·6°F.), the highest reading was 303·2°A. (86·4°F.) occurring at 16h. 30m. on 29 May. February and December were the coldest months with mean temperature 1°F. below average. There were 4 "ice days", i.e. days with maximum temperature in the screen of 273·0°A. (32·0°F.) or less, all in December, whilst the lowest temperature in the north-wall screen was 268·1°A. (23·2°F.) registered at 6h. 40m. on 25 December and again at 8h. 30m. on 27 December. The lowest reading of the grass minimum thermometer was 261·8°A. (11·8°F.) on 30 December.

The rainfall for the year, 483 mm., was 20 per cent below the average for the standard period 1881–1915. March with only 2 mm., 5 per cent of average, was the driest month. February and May, both with 17 mm., 43 and 41 per cent respectively of the average, were also dry months. In only 2 months of 1944 did the rainfall exceed the average. These were November with 87 mm., 155 per cent, and September with 57 mm., 118 per cent. The heaviest fall in one day was 22 mm. on 17 November.

The sunshine for the year, 1279 hours, was 190 hours less than the normal for the period 1906–1935. The sunniest month was May with a total of 219 hours whilst July had 96 hours, only 48 per cent of the normal for that month.

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

The highest wind speed recorded in a gust was 27 m./sec. (60 m.p.h.) on 23 January. The highest on record is 33 m./sec. (73 m.p.h.) on 23 November 1938.

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

TABLE A - DIURNAL VARIATION OF BAROMETRIC PRESSURE, FOURIER COEFFICIENTS
KEW OBSERVATORY, LONGITUDE 0°19′ W.

Values of c_η, α_η in the series $\Sigma c_\eta \sin(15nt + \alpha_\eta)$, 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	
	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926
	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°
January	0.41	0.02	347	315	0.35	0.31	140	151	0.16	0.17	352	346	0.08	0.07	186	202
February	0.31	0.05	65	73	0.42	0.36	150	146	0.12	0.12	331	340	0.02	0.03	80	108
March	0.15	0.11	8	38	0.43	0.40	145	149	0.05	0.07	324	332	0.03	0.04	24	25
April	0.31	0.28	357	31	0.38	0.40	152	151	0.04	0.03	159	185	0.07	0.04	338	353
May	0.61	0.32	18	27	0.43	0.35	156	148	0.11	0.09	152	161	0.04	0.02	303	319
June	0.31	0.30	29	17	0.29	0.32	158	143	0.11	0.09	159	160	0.02	0.01	303	260
July	0.24	0.26	32	16	0.33	0.31	137	140	0.09	0.10	161	153	0.04	0.01	272	281
August	0.27	0.21	53	20	0.43	0.34	143	144	0.07	0.06	165	155	0.05	0.04	322	309
September	0.12	0.12	22	6	0.43	0.40	165	152	0.05	0.01	83	350	0.07	0.04	344	332
October	0.25	0.06	34	76	0.40	0.38	150	160	0.08	0.09	5	359	0.05	0.01	330	22
November	0.37	0.03	135	124	0.28	0.34	156	160	0.14	0.13	4	358	0.03	0.03	200	183
December	0.14	0.08	84	137	0.33	0.31	163	152	0.16	0.15	2	353	0.09	0.07	238	205
Arithmetic mean	0.29	0.15	-	-	0.37	0.35	-	-	0.10	0.09	-	-	0.05	0.03	-	-
Year	0.23	0.14	33	29	0.37	0.35	151	150	0.03	0.03	23	359	0.02	0.01	297	280
Winter	0.16	0.03	64	111	0.34	0.33	152	152	0.14	0.14	353	350	0.04	0.05	208	208
Equinox	0.20	0.14	14	32	0.41	0.39	153	153	0.02	0.04	29	345	0.05	0.03	345	359
Summer	0.35	0.27	29	20	0.36	0.33	148	144	0.10	0.08	158	157	0.04	0.02	301	305

TABLE B - DIURNAL VARIATION OF TEMPERATURE FOURIER COEFFICIENTS
KEW OBSERVATORY, LONGITUDE 0°19′ W.

Values of c_η, α_η in the series $\Sigma c_\eta \sin(15nt + \alpha_\eta)$, 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	
	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926	1944	1871-1926
	°A.	°A.	°	°	°A.	°A.	°	°	°A.	°A.	°	°	°A.	°A.	°	°
January	0.87	0.99	204	221	0.30	0.43	37	35	0.11	0.17	237	208	0.03	0.01	304	3
February	1.27	1.53	214	221	0.42	0.57	32	34	0.15	0.12	223	211	0.09	0.06	163	169
March	2.87	2.45	216	222	0.54	0.63	18	40	0.15	0.07	349	334	0.11	0.11	192	197
April	3.12	3.21	221	226	0.44	0.48	30	51	0.27	0.22	20	24	0.09	0.07	169	218
May	0.45	3.72	225	227	0.27	0.15	60	74	0.34	0.31	47	35	0.06	0.04	340	20
June	3.04	3.72	221	226	0.11	0.02	48	84	0.14	0.26	29	35	0.11	0.10	25	33
July	2.77	3.68	223	225	0.17	0.06	11	50	0.19	0.29	19	31	0.02	0.07	17	28
August	3.41	3.54	221	226	0.39	0.34	34	52	0.25	0.30	21	28	0.04	0.03	175	218
September	2.57	3.22	225	228	0.69	0.71	47	49	0.13	0.14	358	24	0.13	0.16	195	213
October	1.81	2.32	231	229	0.39	0.76	52	50	0.07	0.10	323	248	0.12	0.12	210	200
November	1.12	1.39	234	226	0.45	0.57	55	44	0.19	0.18	225	232	0.01	0.02	339	141
December	1.12	0.90	217	226	0.33	0.40	47	41	0.19	0.16	232	215	0.03	0.04	356	38
Arithmetic mean	2.03	2.56	-	-	0.37	0.43	-	-	0.18	0.19	-	-	0.07	0.07	-	-
Year	2.36	2.56	222	226	0.36	0.42	39	45	0.08	0.08	4	17	0.03	0.02	190	195
Winter	1.08	1.20	218	223	0.37	0.49	43	39	0.14	0.15	228	217	0.01	0.01	177	121
Equinox	2.58	2.80	222	226	0.50	0.64	37	47	0.15	0.09	2	4	0.11	0.11	193	207
Summer	3.42	3.67	223	226	0.22	0.14	39	59	0.22	0.29	31	32	0.04	0.04	16	27

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

ATMOSPHERIC ELECTRICITY

No change took place during 1944 in the method and procedures for observing potential gradient, air-earth current and conductivity from those printed in the Introduction for 1938. Details of the change of position of the Kelvin electrograph in April 1940 and of the the effects on the instrument of the erection of a fire escape in March 1941 are printed in the Introduction for the years in question.

In 1944 the mean value of the air-earth current for the year, allowing equal weight for each month, was 87×10^{-18} amp. cm. $^{-2}$. The mean value of the conductivity for the year was 34×10^{-18} ohm.$^{-1}$ cm.$^{-1}$.

The mean factor for the year for the Kelvin electrograph was 4·29 giving an equivalent height for the collector of 23·3 cm. In 1944 there were 157, 165 and 44 days of electrical character 0, 1 and 2 respectively. The extreme hourly values of potential gradient in Table 183 are 1630 v./m. at 3h. on 17 January and -860 v./m. at 15h. on 9 February.

During the following months there were not 10 "quiet" calendar days.

1944	Calendar days	Other spells	Total
October	5	3	8
November	7	3	10
December	7	0	7

The *Observatories' Year Book, 1938* should be consulted for an explanation of the figures in the foregoing paragraphs.

ATMOSPHERIC POLLUTION

During 1944 the highest estimate of pollution was 2·3 mg./m.^{3}, this value occurring on 1 January from 15h. to 18h. and on 29 December from 19h. to 20h. There were 11 days on which the pollution reached 1·0 mg./m.^{3}. The number of hours credited with 1·0 mg./m.^{3} was 68 of which 20 were recorded during January and 42 during December. It is interesting to note that December 25, 28 and 29, with 9, 6 and 12 such hours respectively, were the most polluted days of 1944.

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* ceased in May 1940* but such seismological data as are available for 1944 are published in the *International Seismological Summary*.

No change took place in instruments or procedures from those printed in the Introduction for 1938 except that the two modified Wood-Anderson seismographs, which were put out of commission as an economy measure in May 1942, have not been reinstated. The Galitzin seismographs were not standardised during 1943.

The total number of shocks recorded during the year was 383. The phases of 102 of these were sufficiently well defined to allow an estimate of the epicentral distance to be computed. Only one British earthquake was recorded during the year, i.e. on 30 December, but the ammunition explosion which occurred at Burton-on-Trent on 27 November was well registered.

* It was resumed in 1947.

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

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	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	millibars																	
1	25·5	21·1	22·5	26·6	17·4	21·2	06·0	*01·3*	*03·7*	19·3	14·3	17·8	23·9	19·7	21·8	14·4	10·5	12·0
2	22·9	20·2	21·5	17·4	13·9	15·5	11·7	04·7	09·1	14·3	98·9	06·6	20·0	08·3	13·4	20·1	14·4	18·0
3	20·2	11·8	15·7	13·9	06·3	09·3	13·9	11·3	12·1	98·9	*93·7*	*96·2*	17·0	07·1	12·7	20·6	16·7	18·8
4	33·6	15·3	24·9	24·3	12·1	16·8	20·9	13·5	16·8	07·4	96·3	02·5	16·6	03·3	09·5	16·7	07·8	11·8
5	36·1	31·0	34·1	32·6	24·3	28·5	31·9	20·9	27·0	17·6	07·4	11·8	04·8	*96·8*	*00·3*	08·8	07·4	08·0
6	31·0	24·9	27·4	*33·6*	25·2	*30·8*	34·9	31·9	33·5	21·8	17·6	20·2	25·2	04·8	16·5	08·8	04·7	07·0
7	25·1	20·3	22·9	25·2	15·6	19·1	37·6	34·7	35·9	21·7	17·2	19·0	29·8	25·2	27·5	12·1	04·5	08·9
8	20·3	09·0	13·1	21·1	16·9	19·0	*38·8*	37·2	*37·8*	17·4	04·2	10·1	*30·9*	28·3	*29·8*	11·8	06·4	09·4
9	09·2	02·9	07·3	21·2	05·0	15·0	37·4	28·1	32·8	14·9	03·8	07·7	30·8	26·4	28·8	06·4	01·0	02·9
10	22·7	02·6	13·4	18·4	04·7	10·9	28·1	22·6	24·9	18·1	14·9	17·1	26·6	21·8	23·8	08·2	01·5	03·9
11	23·0	14·8	18·8	21·1	18·4	20·0	22·6	14·0	16·9	17·3	14·1	15·8	24·5	20·2	22·6	12·1	08·0	09·4
12	19·3	15·9	18·2	22·5	19·3	20·7	17·6	07·7	14·2	15·1	09·8	12·1	21·1	14·6	17·5	20·5	12·1	18·3
13	22·3	13·9	16·2	23·7	22·1	22·9	10·1	01·8	05·6	10·1	07·8	08·8	18·4	12·3	14·5	19·3	11·1	14·1
14	37·5	22·3	31·9	27·3	22·9	24·7	12·9	08·3	09·7	09·2	00·8	04·5	29·9	18·4	25·0	21·9	14·6	17·5
15	*38·6*	36·7	*37·4*	28·0	24·0	26·4	18·9	12·9	17·2	01·0	98·1	99·5	29·9	24·7	27·7	*24·3*	17·5	21·9
16	37·0	35·3	36·2	24·0	16·3	18·6	19·2	17·0	18·0	03·7	96·1	98·4	24·7	15·9	19·0	17·5	13·0	14·7
17	36·0	29·1	32·9	26·2	16·4	21·2	25·6	19·2	23·0	14·2	03·7	09·1	17·5	15·2	16·3	*24·3*	16·8	21·6
18	29·1	24·0	26·1	28·0	25·8	26·8	26·0	19·7	23·7	20·4	14·2	17·4	17·2	15·2	16·3	24·2	20·4	*22·2*
19	24·3	19·1	21·8	28·2	25·9	27·3	23·9	19·2	19·9	20·3	13·0	17·8	16·0	11·8	13·7	22·3	18·7	20·8
20	25·0	20·5	22·8	32·8	28·1	30·5	25·1	18·8	22·5	23·6	12·3	17·4	12·6	09·3	11·0	23·0	19·7	21·1
21	24·0	19·8	22·8	32·6	27·3	29·8	19·9	18·1	18·8	27·2	23·6	25·5	17·3	10·0	12·3	23·0	20·8	22·0
22	19·8	95·7	10·5	28·7	21·5	24·6	19·8	16·6	17·9	33·0	27·2	30·9	22·4	17·3	21·1	21·4	15·3	18·1
23	07·6	89·5	*96·4*	26·0	20·5	22·4	24·0	19·8	22·0	30·8	27·8	29·3	25·0	22·4	23·5	20·1	15·8	17·6
24	11·2	*87·8*	01·0	28·0	26·0	27·0	28·8	23·9	26·0	28·3	23·8	26·0	25·5	22·5	24·3	20·3	13·4	17·3
25	12·4	88·7	97·1	26·4	11·6	20·2	31·8	28·8	30·3	34·1	25·8	30·6	23·8	20·4	22·0	13·4	06·7	09·3
26	19·0	12·4	16·8	11·6	97·1	03·1	30·3	24·6	27·2	*36·1*	34·0	*35·0*	25·9	20·9	23·3	06·7	95·6	01·5
27	27·6	18·5	22·6	97·4	*92·9*	*94·6*	26·7	22·9	24·8	34·5	26·7	30·4	28·1	25·9	27·0	03·8	*95·0*	*98·7*
28	30·2	27·0	28·9	99·7	97·0	98·4	23·0	11·1	17·5	29·0	26·9	28·0	27·9	24·1	26·2	08·8	03·8	05·6
29	30·1	28·2	29·1	02·7	99·3	01·2	11·1	04·6	06·9	29·0	27·0	27·9	24·9	19·4	21·9	09·6	06·1	08·1
30	30·3	28·3	29·2				07·4	04·3	05·1	27·1	22·9	25·0	21·2	15·8	18·7	11·3	06·3	09·2
31	29·3	26·0	27·2				19·0	07·4	12·5				18·1	13·5	16·1			
Mean	25·17	16·54	20·85	22·39	15·65	18·85	22·74	16·93	19·79	19·85	13·46	16·62	22·51	16·50	19·48	15·86	10·19	12·98

	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	11·4	08·6	10·1	23·4	20·7	22·3	11·3	05·1	09·2	22·4	17·6	19·3	18·7	11·7	16·5	26·4	11·8	20·2
2	11·1	07·2	09·8	21·5	18·7	20·1	12·3	*92·0*	*01·0*	*26·1*	20·9	*24·0*	11·7	04·6	06·8	14·6	08·4	11·2
3	07·2	03·4	*04·7*	23·3	19·9	21·1	18·1	08·4	14·4	20·9	16·4	17·5	08·1	04·5	05·7	14·7	00·1	07·3
4	07·2	05·0	05·9	*25·8*	23·3	*24·6*	08·4	01·1	04·3	19·5	14·1	15·8	10·9	08·0	09·7	04·8	99·9	02·9
5	10·9	16·7	08·5	25·7	21·4	23·7	06·7	98·6	01·8	23·8	19·5	21·4	12·9	05·6	08·5	04·7	00·1	03·1
6	11·0	03·8	08·1	22·9	19·0	20·9	09·6	06·8	08·2	24·6	18·1	22·4	13·9	99·6	10·3	00·3	92·9	97·7
7	07·8	*02·4*	05·2	20·0	15·8	18·0	07·7	03·0	05·2	18·1	13·0	14·8	05·6	00·6	02·9	92·9	79·8	*85·2*
8	10·3	07·8	09·3	16·0	10·0	12·7	14·1	07·6	10·5	16·7	14·5	15·5	06·0	01·6	04·2	93·7	*79·7*	85·6
9	09·9	02·7	06·1	13·0	10·1	11·2	24·5	14·1	19·2	15·8	12·0	14·0	20·9	05·0	11·9	02·6	93·7	98·6
10	09·8	03·7	05·7	16·7	12·1	13·8	30·2	24·5	27·8	12·0	08·9	10·1	*27·8*	20·9	25·6	03·0	82·1	92·9
11	18·4	09·8	14·2	17·9	16·0	17·0	*30·8*	28·3	*29·7*	08·9	96·3	02·3	27·6	20·9	24·1	90·6	83·2	85·4
12	18·9	15·8	17·5	21·6	17·6	19·5	29·1	23·8	26·5	02·8	99·8	00·8	20·9	08·5	15·5	16·9	90·6	03·1
13	15·8	10·7	13·0	22·9	20·6	21·7	23·8	18·3	20·5	04·2	93·0	99·6	08·5	94·1	02·5	24·0	16·9	22·1
14	13·5	11·6	12·6	23·3	20·3	21·9	18·3	14·8	16·3	06·2	93·2	00·8	94·1	88·1	*89·9*	23·4	14·3	19·3
15	16·3	12·5	13·7	20·4	11·1	15·7	18·4	13·1	14·9	06·0	98·5	03·2	06·0	91·5	98·2	14·3	05·3	08·4
16	20·4	16·3	18·8	11·3	06·8	08·9	27·5	18·4	23·4	98·5	86·5	89·6	15·2	06·0	11·6	05·3	96·0	01·5
17	20·3	17·1	18·8	13·4	11·0	12·2	29·2	27·0	27·9	97·4	90·1	93·6	13·9	02·3	05·1	99·9	88·4	93·4
18	18·6	15·2	16·9	13·5	06·9	09·8	27·5	22·4	25·4	93·2	*84·5*	*89·4*	07·7	03·1	05·6	14·6	99·9	07·0
19	17·6	15·2	16·5	06·9	03·1	04·8	22·4	15·7	18·6	12·1	89·3	03·5	03·1	94·1	98·6	27·1	14·6	21·4
20	16·3	11·8	14·1	11·3	04·6	07·1	19·7	14·6	16·8	10·9	91·0	97·4	11·0	*87·2*	94·3	31·6	27·0	29·5
21	12·3	05·2	07·8	13·7	11·0	12·2	21·0	16·2	19·2	13·8	91·7	03·7	22·6	11·0	19·3	33·5	30·5	32·1
22	15·9	07·1	10·5	15·1	12·7	14·0	16·2	09·3	12·1	16·2	12·8	14·9	16·5	00·3	04·4	36·8	31·0	33·2
23	20·2	15·9	18·7	17·2	09·4	13·1	14·0	09·1	12·4	12·8	06·5	09·0	00·6	97·3	98·5	*38·4*	36·7	*37·6*
24	20·9	19·5	20·1	19·4	13·7	17·2	14·2	98·0	05·2	19·5	06·8	12·5	97·3	89·5	91·3	37·3	32·4	35·1
25	19·7	11·2	16·5	24·8	19·4	22·3	18·1	11·8	15·7	23·1	19·4	21·7	04·0	89·5	93·9	32·4	29·1	30·3
26	11·2	07·7	08·9	25·0	20·8	23·2	18·3	11·8	16·2	22·7	12·0	18·6	10·1	04·0	07·6	29·7	25·4	28·2
27	11·8	06·7	08·1	20·8	13·1	17·4	17·7	12·8	14·8	12·0	06·2	08·6	22·4	08·8	18·2	25·5	20·6	22·7
28	14·4	11·8	13·4	13·2	08·4	10·3	23·1	17·7	21·9	06·2	00·0	01·9	19·1	09·1	12·7	35·0	23·2	29·9
29	13·9	07·8	10·0	11·5	03·9	08·3	22·1	17·1	18·7	11·3	00·5	04·9	24·4	16·1	21·1	37·0	30·7	34·7
30	17·2	08·3	12·2	05·2	02·2	04·0	21·0	17·8	19·3	19·9	11·3	16·5	27·3	24·0	*26·2*	30·9	25·7	27·5
31	*23·4*	17·2	*20·7*	06·9	*00·8*	*03·1*				19·5	16·4	17·7				33·8	27·5.	30·4
Mean	14·63	09·86	12·15	17·53	13·05	15·24	19·18	12·64	15·90	13·45	05·19	09·19	12·92	03·58	08·02	18·57	09·60	14·12
									Annual	18·73	11·94	15·26						

PRESSURE AT STATION LEVEL

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

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	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	32	23	24	Mean
	millibars																									
Jan.	20·96	20·91	20·92	20·95	20·87	20·84	20·87	20·97	21·28	21·56	*21·68*	21·65	21·17	20·71	20·41	20·31	*20·26*	20·29	20·35	20·50	20·59	20·66	20·79	20·99	21·00	20·85
Feb.	*19·72*	19·60	19·39	19·19	19·00	18·95	18·86	18·91	19·14	19·24	19·19	19·16	18·18	18·47	18·12	18·01	*17·97*	18·12	18·41	18·69	18·86	18·96	18·96	18·96	18·98	18·85
Mar.	19·74	19·72	19·53	19·35	19·31	19·42	19·49	19·75	20·01	20·17	20·20	20·19	20·07	19·81	19·52	19·36	*19·23*	19·32	19·60	19·84	20·04	20·24	*20·33*	20·33	20·29	19·79
Apr.	16·73	16·60	16·50	16·47	16·36	16·48	16·74	17·01	17·10	*17·19*	17·12	16·93	16·76	16·64	16·40	16·16	15·97	*15·96*	16·12	16·32	16·70	16·84	16·87	16·92	16·89	16·62
May	20·02	19·90	19·78	19·68	19·65	19·85	20·05	*20·25*	20·24	20·18	19·94	19·68	19·43	19·13	18·91	18·65	18·51	*18·42*	18·51	18·78	19·19	19·58	19·70	19·75	19·70	19·48
June	13·30	13·21	13·03	12·97	12·97	13·14	13·26	13·38	*13·40*	13·32	13·14	13·08	12·89	12·73	12·64	12·54	12·44	*12·33*	12·48	12·66	12·88	13·25	13·30	13·29	13·20	12·98
July	12·27	12·18	12·07	11·94	11·90	11·95	12·09	12·21	12·31	12·40	12·35	12·28	12·21	12·03	11·97	11·88	11·70	*11·61*	11·73	11·91	12·21	12·62	*12·78*	12·73	12·69	12·15
Aug.	*16·00*	15·82	15·54	15·33	15·20	15·20	15·31	15·50	15·56	15·61	15·52	15·37	15·26	15·06	14·86	14·68	14·50	*14·45*	14·51	14·87	15·29	15·47	15·61	15·53	15·47	15·24
Sept.	15·88	15·80	15·65	15·43	*15·35*	15·51	15·78	16·11	16·29	*16·37*	16·27	16·09	15·87	15·76	15·59	15·47	15·41	15·59	15·69	16·03	16·26	16·40	16·38	16·34	16·25	15·90
Oct.	09·49	09·47	09·36	09·16	09·03	08·97	09·08	09·32	09·55	*09·67*	09·62	09·47	09·22	08·96	08·74	08·61	*08·48*	08·60	08·85	09·10	09·30	09·45	09·48	09·54	09·48	09·19
Nov.	08·30	08·08	07·97	07·82	07·55	07·53	*07·39*	07·55	07·79	08·00	08·09	08·00	07·86	07·68	07·63	07·73	07·90	08·09	08·38	08·53	08·57	*08·63*	08·62	*08·63*	08·58	08·02
Dec.	14·20	14·06	14·07	14·05	13·85	13·70	13·81	13·94	14·20	14·53	14·56	14·36	13·99	13·73	*13·63*	13·72	13·85	13·95	14·12	14·37	14·51	14·50	*14·57*	14·54	14·44	14·12
Annual	15·55	15·45	15·32	15·19	15·09	15·13	15·23	15·41	15·57	*15·69*	15·64	15·52	15·30	15·06	14·84	14·76	*14·69*	14·73	14·87	14·86	15·37	15·55	15·62	15·63	15·57	15·26

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.

163 KEW OBSERVATORY: h_b = 10·4 m. 1944

	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.	22·26	22·21	22·22	22·25	22·17	22·14	22·18	22·28	22·58	22·86	*22·98*	22·94	22·47	22·00	21·70	21·60	*21·55*	21·58	21·64	21·79	21·89	21·96	22·08	22·29	22·30	22·15
Feb.	*21·03*	20·92	20·70	20·50	20·31	20·26	20·17	20·22	20·46	20·55	20·49	20·47	20·18	19·77	19·42	19·31	*19·27*	19·42	19·72	19·99	20·17	20·27	20·27	20·27	20·19	20·15
Mar.	21·05	21·03	20·84	20·66	20·62	20·73	20·80	21·06	21·32	21·47	21·51	21·49	21·37	21·10	20·81	20·65	*20·51*	20·60	20·90	21·13	21·33	21·54	*21·64*	21·64	21·60	21·09
Apr.	18·01	17·88	17·79	17·75	17·65	17·76	18·03	18·29	18·38	*18·47*	18·39	18·19	18·02	17·90	17·66	17·41	17·22	*17·22*	17·38	17·58	17·97	18·11	18·14	18·20	18·17	17·90
May	21·30	21·19	21·07	20·97	20·95	21·14	21·13	*21·53*	21·52	21·45	21·21	20·94	20·69	20·38	20·16	19·90	19·76	*19·67*	19·77	20·04	20·45	20·86	20·97	21·03	20·99	20·76
June	14·56	14·47	14·29	14·24	14·24	14·41	14·53	14·64	*14·66*	14·57	14·39	14·32	14·14	13·97	13·88	13·78	13·68	*13·57*	13·72	13·91	14·13	14·51	14·56	14·55	14·46	14·24
July	13·52	13·42	13·32	13·19	13·15	13·20	13·34	13·46	13·56	13·64	13·59	13·51	13·45	13·25	13·20	13·11	12·92	*12·84*	12·96	13·14	13·45	13·86	*14·03*	13·97	13·93	13·39
Aug.	*17·25*	17·06	16·79	16·58	16·45	16·45	16·56	16·74	16·80	16·85	16·76	16·60	16·49	16·28	16·09	15·90	15·72	*15·67*	15·74	16·10	16·52	16·71	16·85	16·77	16·71	16·48
Sept.	17·15	17·07	16·92	16·70	*16·62*	16·78	17·05	17·38	17·56	*17·63*	17·53	17·34	17·12	17·01	16·83	16·72	16·66	16·84	16·94	17·29	17·52	17·67	17·65	17·61	17·52	17·16
Oct.	10·76	10·74	10·63	10·43	10·31	10·24	10·35	10·59	10·82	*10·94*	10·89	10·75	10·48	10·22	10·99	09·87	*09·74*	09·86	10·11	10·86	10·57	10·72	10·75	10·81	10·76	10·46
Nov.	09·58	09·36	09·26	09·10	08·84	08·81	*08·67*	08·83	09·07	09·28	09·37	09·27	09·13	08·95	08·90	09·00	09·17	09·36	09·66	09·81	09·85	09·91	09·90	*09·92*	09·87	09·30
Dec.	15·50	15·35	15·38	15·36	15·15	15·00	15·12	15·25	15·50	15·83	15·86	15·66	15·29	15·02	*14·93*	15·02	15·15	15·25	15·42	15·67	15·82	15·81	*15·87*	15·84	15·75	15·42
Annual	16·83	16·73	16·60	16·48	16·37	16·41	16·51	16·69	16·85	*16·96*	16·91	16·79	16·57	16·32	16·11	16·02	*15·95*	15·99	16·13	16·13	16·64	16·83	16·89	16·91	16·86	16·53

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.

164 KEW OBSERVATORY: North-wall screen: h_t = 3·0 m. 1944

	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.	79·42	79·41	79·35	79·21	79·14	78·92	*78·80*	78·87	78·84	79·11	79·48	79·96	80·36	80·70	80·83	*80·85*	80·69	80·41	80·32	80·24	80·01	79·98	79·83	79·62	79·41	79·76
Feb.	76·52	76·19	76·14	76·11	76·08	76·05	75·89	75·79	*75·75*	76·15	76·89	77·50	77·99	78·35	*78·56*	78·54	78·39	78·06	77·64	77·36	77·12	76·93	76·77	76·65	76·39	76·97
Mar.	76·87	76·62	76·38	76·28	75·98	75·85	*75·84*	75·95	76·52	77·56	78·57	79·53	80·22	80·86	81·33	81·62	*81·75*	81·43	80·74	79·77	79·13	78·34	77·77	77·19	76·87	78·42
Apr.	81·87	81·60	81·32	80·98	80·81	80·75	*80·73*	81·42	82·24	83·34	84·36	85·25	85·21	86·47	86·83	87·11	*87·21*	87·05	86·28	85·27	84·30	83·46	82·94	82·52	82·18	83·76
May	82·70	82·12	81·58	81·17	*80·73*	80·99	81·72	82·97	84·29	85·57	86·81	87·66	88·40	89·27	89·75	*90·05*	89·83	89·33	88·71	87·40	86·02	84·95	84·05	83·27	82·73	85·40
June	85·54	85·17	84·86	84·58	*84·31*	84·46	85·00	85·78	86·36	87·20	87·97	88·90	89·54	90·03	90·33	*90·59*	90·43	90·29	89·79	89·14	88·14	87·34	86·59	86·02	85·54	87·43
July	88·41	88·08	87·86	87·71	*87·53*	87·55	87·93	88·56	89·28	90·04	90·81	91·57	92·01	92·57	92·81	*93·13*	93·03	92·93	92·42	91·76	90·83	90·00	89·35	88·82	88·52	90·21
Aug.	89·35	89·06	88·66	88·41	88·17	*88·00*	88·30	88·93	89·85	91·06	92·03	92·83	93·43	94·31	94·59	94·84	*94·86*	94·39	94·07	92·88	91·65	90·91	90·33	89·10	89·24	91·29
Sept.	85·05	84·80	84·51	84·37	84·19	83·97	*83·72*	84·16	84·95	85·92	87·01	87·95	88·66	88·93	89·18	*89·25*	89·11	88·45	87·75	86·79	86·25	85·75	85·42	85·15	84·94	86·30
Oct.	81·85	81·72	81·64	81·63	81·52	81·58	*81·50*	81·72	82·24	83·10	83·83	84·30	84·73	84·96	*85·03*	85·02	84·92	84·36	83·85	83·31	82·94	82·65	82·34	82·10	81·78	83·04
Nov.	79·35	79·27	79·25	79·20	79·19	*79·17*	79·21	79·22	79·38	79·81	80·33	80·99	81·48	81·71	*81·74*	81·45	81·04	80·55	80·21	80·05	79·94	79·81	79·71	79·57	79·38	80·07
Dec.	76·52	76·31	76·22	76·10	75·96	*75·85*	75·89	75·87	76·03	76·41	76·81	77·36	77·84	78·21	*78·28*	78·13	77·89	77·55	77·37	77·20	77·03	76·80	76·51	76·43	76·24	76·85
Annual	82·00	81·71	81·50	81·33	81·16	*81·11*	81·23	81·62	82·11	82·96	83·77	84·51	85·09	85·56	85·80	*85·91*	85·76	85·43	84·96	84·29	83·64	83·10	83·15	82·00	81·98	83·31

The initial 2 or 3 of the readings is omitted, i.e. 275·00 degrees Absolute is printed 75·00·

Add 0·16° to obtain temperature in degrees Kelvin where $T(°K.) = t(°C.) + 273·16$.

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 $T(°K.) = t(°C.) + 273·16$.

165 KEW OBSERVATORY: North-wall screen: h_t(height of thermometer bulb above ground) = 3·0 m. 1944

	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	82·9	79·2	80·9	83·8	79·3	81·9	79·4	75·1	77·0	80·7	*75·1*	*77·5*	92·6	82·4	87·1	92·9	85·7	89·1
2	82·8	80·1	81·5	*86·1*	83·5	*84·8*	78·6	73·4	75·7	85·9	76·4	81·1	94·2	82·5	87·9	92·5	85·4	88·6
3	83·6	79·1	82·1	84·2	78·2	82·7	78·3	71·7	74·6	87·1	82·3	84·3	87·3	80·0	84·6	94·4	85·3	*89·6*
4	79·5	74·2	76·9	79·1	74·8	77·5	76·8	70·9	*73·9*	88·2	82·5	84·4	85·0	77·9	82·2	92·9	85·7	88·4
5	78·1	72·0	75·3	78·4	73·4	75·5	78·2	72·6	75·3	87·9	82·9	84·9	88·1	79·5	82·8	89·9	84·0	87·0
6	81·7	77·8	80·0	79·1	*70·0*	75·3	78·7	*70·2*	74·9	83·9	79·6	81·9	83·7	77·8	80·8	87·3	82·9	85·0
7	81·6	78·5	79·8	85·2	79·1	81·8	80·6	73·3	76·4	82·7	78·5	79·9	85·9	74·0	80·2	88·5	83·4	85·9
8	81·9	79·0	80·6	81·2	76·5	79·2	80·9	74·2	76·9	88·5	78·3	83·1	89·2	*73·5*	81·7	90·3	81·7	86·1
9	83·9	81·5	82·8	81·8	75·2	78·5	78·7	73·3	76·3	88·7	81·6	84·6	91·6	75·3	83·9	89·5	84·4	86·9
10	83·8	72·9	77·6	81·2	74·6	76·6	81·3	73·0	77·8	86·9	79·0	82·5	92·2	78·9	86·2	89·1	82·0	85·7
11	79·3	*71·8*	76·0	80·0	75·7	77·8	83·1	77·3	80·4	87·4	79·2	83·1	96·1	81·0	87·9	88·3	*79·7*	85·6
12	82·7	79·0	80·9	78·7	74·1	76·8	86·0	78·4	81·1	91·1	77·5	84·0	96·1	81·9	88·9	92·2	83·4	87·6
13	85·1	81·8	83·4	77·1	75·0	76·1	83·2	76·8	80·6	87·3	80·0	84·0	95·8	81·5	87·3	92·5	84·3	87·8
14	82·1	73·0	78·2	78·9	75·1	77·1	79·1	75·1	77·5	89·7	78·9	84·3	85·9	78·0	83·0	90·9	83·2	86·8
15	75·0	72·0	*73·5*	79·2	75·4	77·0	80·7	72·5	76·3	88·2	80·1	84·3	83·2	76·1	80·1	92·7	82·0	87·6
16	75·0	72·5	73·6	78·8	76·1	77·8	80·5	71·8	77·1	84·3	81·7	83·1	82·2	76·3	*79·5*	89·8	86·1	87·9
17	81·3	72·8	77·8	77·9	74·3	75·8	84·2	75·4	79·1	83·3	80·5	82·1	84·6	77·2	80·3	90·7	82·3	86·6
18	82·0	81·0	81·3	75·7	73·2	74·2	83·1	75·0	79·5	87·5	78·3	82·3	86·0	78·2	81·7	93·2	81·3	87·1
19	82·2	78·6	81·1	75·5	73·5	74·7	84·0	78·0	81·2	86·9	77·0	82·5	88·5	75·1	82·2	93·2	81·9	87·2
20	80·8	75·3	78·3	77·1	74·0	75·5	83·0	76·1	80·2	88·2	81·6	84·4	88·6	75·9	83·0	94·9	83·7	88·3
21	82·2	76·8	79·4	78·0	74·3	75·9	82·2	77·5	80·1	88·0	78·4	84·2	85·6	79·5	81·4	89·0	83·5	85·4
22	83·1	80·4	82·3	76·1	73·2	74·4	81·7	75·2	78·3	91·6	81·3	85·5	87·7	77·7	83·3	94·3	82·6	88·7
23	83·3	77·3	80·3	77·2	72·8	74·8	83·3	76·5	79·4	92·6	80·0	86·0	87·5	80·3	84·2	90·5	83·3	86·9
24	82·1	75·8	79·2	77·5	71·5	74·3	86·2	74·7	80·3	89·8	82·3	85·4	91·1	78·8	85·4	*96·1*	79·9	88·0
25	82·1	77·5	80·2	78·1	73·1	76·1	88·1	73·5	80·5	88·1	80·7	84·3	89·4	81·3	85·7	93·8	84·0	88·7
26	84·2	76·2	79·9	77·1	74·9	75·9	*93·0*	76·2	*84·3*	89·5	81·8	85·0	95·0	86·2	89·3	90·2	86·3	88·2
27	*85·9*	82·6	*84·0*	76·5	74·8	75·4	86·2	75·9	80·8	93·8	79·0	86·6	99·4	86·1	91·2	88·8	84·2	86·4
28	84·2	81·3	83·4	77·7	72·3	74·5	88·9	76·5	81·4	87·6	81·8	84·2	00·9	84·0	92·7	91·0	85·3	87·7
29	82·8	80·7	81·7	77·5	70·5	*74·2*	80·0	76·1	78·5	88·5	82·0	85·1	*03·2*	87·4	*96·2*	93·1	86·3	89·4
30	84·2	77·5	81·3				81·2	75·3	77·8	*94·8*	81·0	*87·8*	02·7	90·0	95·6	92·6	85·9	88·7
31	80·2	77·6	79·4				81·8	73·8	77·7				96·0	86·1	91·0			
Mean	81·9	77·3	79·8	79·1	74·8	77·0	82·3	74·7	78·4	88·0	80·0	83·8	90·8	80·0	85·4	91·5	83·7	87·4

	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	92·1	86·2	89·2	93·5	89·1	90·8	91·8	86·4	88·6	86·3	80·0	83·4	83·1	78·9	80·6	83·6	81·4	82·4
2	93·1	88·9	90·3	94·2	88·3	90·5	88·7	85·5	86·9	85·8	77·6	81·8	82·3	75·0	78·9	83·1	77·6	80·5
3	90·4	87·9	89·6	97·7	88·2	91·8	89·0	82·7	86·7	86·9	82·1	83·7	81·6	76·8	79·3	85·5	77·0	81·9
4	94·0	86·1	89·4	99·0	86·8	91·8	90·2	87·8	*89·1*	84·7	80·7	82·3	84·7	78·7	82·2	83·3	77·6	80·3
5	93·1	86·5	89·3	98·3	86·2	92·1	91·1	84·9	88·5	86·5	81·2	83·5	*87·3*	79·5	84·3	81·0	74·0	77·9
6	99·0	87·4	*93·7*	97·4	85·8	90·1	89·9	83·1	86·3	*88·5*	82·5	85·1	84·3	77·5	80·6	80·3	70·9	76·8
7	94·8	87·8	91·3	98·5	86·0	91·9	86·7	83·0	84·5	86·0	82·7	84·3	82·5	79·0	81·1	78·9	75·0	77·4
8	94·4	86·9	90·5	98·3	85·6	91·7	88·1	81·8	84·0	86·7	80·5	83·7	79·8	75·0	77·6	77·1	74·3	75·8
9	91·1	85·8	88·5	98·1	87·2	92·8	88·1	80·1	83·6	86·3	82·5	84·4	79·3	74·6	76·9	78·0	73·0	75·3
10	92·5	86·1	88·8	98·9	89·3	93·3	88·5	77·5	*83·1*	86·9	81·0	84·2	79·3	73·6	76·4	79·2	73·3	76·6
11	91·0	85·7	88·2	97·2	89·6	93·2	90·0	*76·8*	83·8	88·3	84·0	*85·8*	78·6	72·8	76·9	80·0	76·2	77·8
12	93·6	85·0	89·0	98·8	89·7	93·4	91·3	81·8	86·6	86·7	81·2	84·4	78·8	72·8	76·2	79·7	76·1	78·2
13	93·1	87·4	89·7	97·2	86·9	91·9	92·5	84·1	87·8	85·6	78·4	82·9	78·9	76·4	77·6	76·7	72·3	73·7
14	94·1	86·9	90·3	96·2	86·3	91·1	*93·9*	82·2	87·8	87·1	81·9	84·4	78·0	75·2	76·8	79·0	73·7	76·5
15	93·8	87·9	90·1	96·8	87·3	91·6	92·6	85·7	89·1	86·3	77·3	81·4	78·0	*72·0*	76·1	78·7	75·0	77·1
16	97·1	88·4	92·1	*00·7*	*84·6*	93·0	91·2	83·3	86·9	86·2	77·2	83·3	79·0	73·6	*75·5*	83·0	75·1	79·8
17	*99·3*	87·6	92·3	96·6	90·2	93·2	92·4	81·6	86·5	87·3	81·9	84·5	85·2	76·8	82·4	*84·1*	81·5	*82·7*
18	96·9	86·9	90·9	96·8	91·1	*93·5*	90·0	83·1	86·7	86·0	83·0	84·3	85·2	83·3	84·5	82·7	76·8	80·9
19	96·2	86·8	91·1	95·7	89·4	92·0	90·6	85·8	87·9	86·7	81·5	84·3	86·0	83·8	84·9	80·1	76·9	78·7
20	96·0	86·3	90·6	90·8	85·8	89·2	91·8	84·6	87·3	86·1	81·2	83·7	86·1	79·6	83·7	77·4	74·3	75·8
21	92·8	85·0	88·5	88·1	85·7	*86·8*	90·8	82·7	86·8	87·1	82·1	85·0	80·3	76·1	78·1	81·1	75·8	78·8
22	90·9	84·5	*87·5*	92·7	86·9	89·8	91·1	84·5	87·5	86·3	82·1	84·2	87·1	78·6	84·2	82·1	77·9	80·0
23	91·8	86·8	89·1	96·2	89·8	92·3	88·5	84·2	86·4	83·8	78·6	81·9	86·8	84·0	*85·5*	80·3	75·0	78·5
24	93·2	86·6	89·9	94·1	88·4	90·9	86·6	81·7	84·2	85·1	78·1	81·8	85·7	82·0	84·3	78·0	72·7	75·5
25	94·2	*83·0*	90·1	96·8	85·4	91·1	88·2	81·0	85·1	84·8	80·4	82·7	82·1	76·7	79·0	72·7	*68·1*	71·1
26	95·1	89·6	91·8	98·5	86·8	92·1	89·0	82·7	86·5	83·1	79·0	81·4	79·0	74·9	76·9	72·2	69·8	70·9
27	95·4	89·2	91·6	97·2	87·2	91·9	87·9	81·0	84·0	83·4	77·7	81·5	80·2	75·0	77·9	72·3	*68·1*	70·5
28	94·7	88·3	91·4	93·3	87·6	90·2	86·8	79·0	83·2	82·7	75·3	79·4	85·0	79·5	82·6	75·1	70·0	72·6
29	92·7	87·7	90·0	91·9	86·6	88·7	89·6	83·3	86·7	80·8	*73·1*	*77·9*	82·8	76·3	79·9	72·2	68·2	*70·4*
30	95·3	87·0	90·6	93·2	87·3	89·5	89·5	83·2	86·9	83·9	77·8	81·1	83·8	79·8	81·1	76·4	68·7	73·7
31	96·4	87·2	91·2	90·8	86·0	87·8				83·2	80·5	81·8				76·3	72·9	74·2
Mean	94·1	86·9	90·2	95·9	87·5	91·3	89·9	82·8	86·3	85·6	80·1	83·0	82·4	77·3	80·1	79·0	74·2	76·2
									Annual	86·7	79·9	83·3						

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

166 KEW OBSERVATORY: North-wall screen: h_t = 3·0 m. 1944

	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	79·0	8·4	89·4	10·2	66·2	5·4	74·1	*6·2*	68·1	11·0	74·4	13·6	87·5	16·1	77·5	15·8	70·7	12·5	73·7	9·3	80·4	8·4	86·3	10·2
2	74·9	8·3	85·7	*11·9*	58·8	4·4	86·0	9·3	60·2	10·2	*56·6*	10·0	*88·4*	*17·5*	78·6	15·7	92·3	13·1	*66·0*	*7·5*	83·6	7·8	75·5	7·8
3	79·5	9·2	67·8	8·2	63·7	4·4	88·2	*11·8*	*49·5*	6·8	61·4	11·6	88·3	16·7	71·7	15·6	78·1	12·2	68·6	8·8	90·2	8·6	82·0	9·3
4	70·0	*5·7*	*61·5*	5·2	59·2	*3·9*	87·1	11·7	67·3	7·8	68·3	12·0	74·6	13·9	70·7	15·3	89·9	*16·5*	78·9	9·3	83·6	9·7	*68·6*	7·0
5	82·4	5·9	65·5	4·8	71·7	5·2	80·7	11·2	66·5	8·1	68·4	10·9	82·2	15·2	69·3	15·3	68·1	12·0	75·3	9·6	81·3	10·9	80·5	7·0
6	73·1	7·3	82·9	6·0	74·2	5·2	81·3	9·3	60·3	6·4	60·7	*8·5*	*64·0*	15·6	78·7	15·3	72·5	11·1	72·1	10·2	84·5	8·8	89·6	7·2
7	82·3	8·1	81·8	9·2	72·1	5·6	83·6	8·3	57·9	*5·9*	64·7	9·6	74·8	15·7	64·4	14·0	*91·1*	12·4	82·6	11·1	70·1	7·6	91·1	7·6
8	84·0	8·8	65·6	6·2	75·9	6·1	79·0	9·8	63·7	7·2	75·1	11·3	73·3	14·7	74·2	16·0	76·0	10·0	89·7	11·5	85·7	7·3	84·8	6·3
9	87·5	10·6	81·7	7·4	82·0	6·3	75·8	10·4	55·0	7·2	*91·5*	14·5	79·9	14·1	65·5	15·1	70·0	*9·0*	89·0	12·0	69·9	5·6	84·7	6·1
10	77·4	6·6	67·2	5·3	86·7	7·5	80·4	9·6	63·5	8·1	66·9	9·8	74·7	13·4	71·8	17·1	72·5	9·0	84·8	11·3	*68·7*	*5·4*	90·4	7·1
11	90·2	6·8	77·2	6·6	73·3	7·5	79·9	9·9	67·6	11·5	80·2	11·7	71·5	12·4	75·5	17·8	75·1	9·7	84·5	*12·5*	88·0	7·1	88·1	7·6
12	96·3	10·3	77·5	6·2	78·0	8·4	69·2	9·1	62·2	11·2	64·2	10·7	68·0	12·4	66·2	15·8	72·7	11·3	85·5	11·5	92·5	7·1	82·6	7·3
13	88·2	11·1	82·4	6·3	58·9	6·2	71·9	9·4	65·7	10·7	69·4	11·7	84·6	16·1	*58·9*	12·8	75·4	12·7	86·2	10·5	87·6	7·4	98·0	6·3
14	84·0	7·4	76·4	6·3	67·9	5·7	72·7	9·7	65·0	8·0	62·0	9·8	76·8	15·2	60·3	*12·5*	88·5	14·9	74·8	10·1	88·7	7·1	90·9	7·1
15	*99·0*	6·3	73·0	5·9	71·3	5·5	86·2	11·5	59·5	5·0	64·9	10·8	81·7	15·9	64·7	13·8	84·6	15·5	89·7	9·9	86·2	6·6	86·9	7·1
16	98·9	6·3	89·6	7·7	85·7	7·0	*89·6*	11·0	77·2	7·5	70·5	12·0	79·3	*17·5*	66·5	15·5	73·5	11·7	88·5	11·0	88·1	6·5	90·2	8·9
17	97·4	8·4	79·5	5·9	*89·0*	8·4	80·0	9·2	*81·2*	8·3	58·0	9·0	76·9	17·2	72·5	17·2	81·4	12·6	88·9	12·0	*93·3*	11·0	90·3	*10·8*
18	97·4	10·7	77·1	5·2	81·4	7·9	65·3	7·7	73·0	8·2	60·5	9·7	72·0	14·8	70·6	17·0	81·2	12·7	75·2	10·1	91·5	12·4	90·0	9·7
19	96·7	10·4	75·5	5·2	65·0	7·1	76·1	9·1	74·5	8·7	67·7	11·0	73·0	15·2	83·0	*18·2*	87·4	14·8	70·3	9·4	89·0	12·4	98·6	9·0
20	88·2	7·9	66·5	4·9	70·0	7·1	65·0	8·8	70·3	8·6	62·2	10·8	68·0	13·6	86·2	15·9	82·2	13·4	89·3	11·5	83·8	10·8	*99·7*	7·4
21	81·0	7·8	64·5	4·9	78·3	7·9	74·0	9·8	67·6	7·4	72·0	10·4	66·9	*11·8*	88·0	13·9	88·0	13·8	88·7	12·4	80·0	7·0	97·8	9·0
22	84·5	9·9	77·3	5·2	65·1	5·8	62·5	9·1	62·5	7·8	58·3	10·4	76·8	12·7	*92·6*	17·7	87·7	14·5	87·4	11·6	*93·3*	12·4	95·6	9·6
23	75·4	7·7	82·7	5·8	67·9	6·5	71·2	10·6	65·6	8·7	64·6	10·2	65·2	11·9	80·3	17·9	69·7	10·7	88·1	10·0	91·1	*13·2*	88·8	8·0
24	84·1	8·0	67·5	4·5	73·2	7·5	68·5	9·9	64·5	9·3	59·3	10·1	70·3	13·5	86·3	17·7	75·1	10·0	82·8	9·4	85·1	11·4	83·5	6·1
25	*64·9*	6·6	73·7	5·6	78·6	8·1	*54·4*	7·3	73·5	10·8	66·6	11·9	67·4	13·1	84·0	17·4	76·6	10·8	92·0	11·0	82·9	7·7	95·5	5·1
26	85·0	8·5	*90·3*	6·8	*52·7*	7·1	56·2	7·9	76·9	14·2	88·5	*15·3*	74·2	16·1	78·3	17·3	*65·7*	10·2	*96·3*	10·6	87·0	7·0	96·2	5·1
27	87·1	*11·4*	85·9	6·2	80·4	8·5	60·0	9·3	65·0	13·6	77·0	11·8	73·1	15·7	69·9	15·2	73·1	9·6	75·2	8·3	86·6	7·5	96·0	*4·9*
28	80·3	10·2	75·8	5·2	81·5	*9·0*	63·3	8·4	67·6	15·5	84·0	14·0	73·0	15·5	68·7	13·5	72·3	9·0	80·0	7·7	91·6	11·0	91·7	5·4
29	83·3	9·4	66·2	*4·4*	85·6	7·7	66·1	9·3	63·7	*18·1*	78·6	14·6	83·7	16·2	77·1	13·7	81·5	12·8	90·1	7·8	87·5	8·7	97·2	4·9
30	84·9	9·3			66·3	5·7	59·3	9·9	59·4	16·3	75·1	13·4	80·0	16·1	76·1	14·2	70·0	11·1	74·3	8·0	90·3	9·8	94·0	6·1
31	85·8	8·2			65·2	5·6			65·2	13·4			75·5	15·8	70·9	14·2			81·6	9·2			83·3	5·5
Mean	84·6	8·4	76·1	6·3	72·4	6·6	73·6	9·5	65·5	9·8	69·1	11·4	75·7	14·9	74·2	15·6	77·8	12·0	82·3	10·2	85·4	8·8	89·3	7·3

RELATIVE HUMIDITY

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

167 KEW OBSERVATORY: h_t = 3·0 m. 1944

	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*
	per cent.																									
Jan.	86·7	86·5	86·0	87·1	87·3	*87·5*	87·1	87·3	87·1	86·1	84·0	81·9	80·2	79·6	*79·5*	79·8	81·8	83·8	84·5	83·9	85·0	85·5	85·8	86·5	86·7	84·6
Feb.	79·3	81·0	81·2	80·8	81·4	80·4	80·5	80·9	*81·4*	79·4	76·1	73·1	70·7	69·6	*68·1*	68·6	70·0	70·6	73·1	74·3	75·2	76·4	77·0	78·3	78·6	76·1
Mar.	80·9	82·0	83·3	84·4	84·8	*85·9*	85·7	85·6	83·3	79·1	72·9	67·2	63·2	59·1	56·5	54·5	*54·2*	55·7	59·4	65·5	68·4	73·3	75·3	78·4	81·2	72·4
Apr.	81·2	82·5	84·0	85·2	85·7	*86·1*	85·7	83·5	79·9	75·0	70·7	67·2	64·4	62·5	60·4	*58·5*	*58·5*	59·9	62·7	67·1	72·3	75·7	77·7	79·7	81·0	73·6
May	77·5	80·5	82·1	83·4	*84·0*	83·5	81·0	74·6	68·6	62·7	57·1	53·2	50·8	47·8	46·5	*46·1*	48·2	50·9	53·7	59·1	64·1	68·5	72·2	75·0	77·9	65·5
June	79·0	81·1	82·4	83·3	*84·2*	82·8	79·9	75·5	72·6	68·1	64·3	59·8	55·8	54·5	54·0	*53·0*	55·0	56·5	59·3	62·8	68·5	71·6	75·1	78·0	79·6	69·1
July	83·7	85·2	86·2	86·8	*87·1*	*87·1*	85·9	82·8	79·6	76·6	72·8	69·0	67·5	65·1	64·4	*62·8*	63·6	63·7	65·7	68·5	72·9	77·2	79·9	82·1	83·7	75·7
Aug.	83·8	84·7	85·6	87·4	*88·2*	87·9	87·5	85·4	81·0	74·9	69·9	67·0	63·2	60·7	58·9	*57·6*	57·9	60·9	61·8	66·7	72·7	76·5	78·6	81·2	83·3	74·2
Sept.	86·3	87·6	88·4	88·6	*88·6*	88·5	88·4	86·8	83·7	79·5	72·8	66·8	63·4	62·7	62·1	*61·7*	63·4	66·7	71·0	76·1	79·7	83·2	84·2	85·9	86·8	77·8
Oct.	87·4	88·1	*88·4*	88·1	88·1	88·2	87·9	87·7	86·0	82·4	78·4	75·3	73·4	*72·5*	73·5	73·3	73·5	77·0	80·2	82·4	83·8	85·1	86·3	87·2	87·5	82·3
Nov.	89·2	88·3	88·5	89·1	88·7	89·1	89·5	*89·8*	88·8	86·8	84·5	81·1	78·0	*75·5*	77·2	78·3	81·1	84·3	85·6	86·4	87·0	87·8	87·4	87·7	89·1	85·4
Dec.	90·2	90·8	91·2	91·8	92·6	*92·7*	91·7	92·5	92·5	91·9	90·7	88·4	85·7	84·6	*83·8*	84·4	85·4	86·6	88·2	88·5	89·9	89·5	89·7	89·6	90·0	89·3
Annual	83·8	84·9	85·6	86·3	*86·7*	86·7	85·9	84·4	82·1	78·5	74·5	70·8	68·0	66·2	65·4	*64·9*	66·0	68·0	70·4	73·4	76·6	79·2	80·8	82·5	83·8	77·2

VAPOUR PRESSURE

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

168 KEW OBSERVATORY: h_t = 3·0 m. 1944

	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.	8·3	8·3	8·2	8·3	8·2	8·1	*8·1*	8·1	8·1	8·1	8·1	8·2	8·2	8·4	8·4	8·5	8·6	8·6	*8·7*	8·6	8·5	8·5	8·5	8·4	8·3	8·3
Feb.	6·2	6·2	6·2	6·2	6·2	6·1	6·1	*6·0*	6·1	6·1	6·1	6·2	6·2	6·2	6·2	6·2	*6·3*	6·2	6·2	6·2	6·2	6·2	6·2	6·2	6·1	6·2
Mar.	6·5	6·5	6·5	6·5	6·4	6·4	6·4	6·5	6·6	*6·7*	6·6	6·5	6·4	6·3	6·2	*6·1*	6·1	6·1	6·3	6·4	6·4	6·5	6·5	6·5	6·5	6·4
Apr.	9·3	9·2	9·2	9·1	9·1	9·1	*9·0*	9·2	9·3	9·4	9·5	9·6	9·6	9·7	9·5	9·4	9·5	9·6	9·6	9·6	*9·7*	9·6	9·5	9·5	9·4	9·4
May	9·3	9·3	9·2	9·1	8·9	9·0	9·1	9·1	9·2	9·1	9·0	8·9	8·9	*8·8*	8·9	9·0	9·2	9·5	9·6	*9·7*	9·6	9·6	9·5	9·4	9·4	9·2
June	11·5	11·5	11·4	11·3	11·2	11·2	11·2	11·2	11·1	11·0	10·9	10·8	*10·5*	10·6	10·7	10·7	10·9	11·2	11·3	11·5	*11·8*	11·7	11·7	11·7	11·6	11·2
July	14·7	14·6	14·6	14·5	*14·4*	14·4	14·6	14·6	14·7	14·9	14·8	14·8	14·8	14·8	14·9	14·8	14·9	14·8	14·8	14·8	14·9	*15·0*	14·8	14·7	14·8	14·7
Aug.	15·6	15·4	15·2	15·3	15·2	*15·0*	15·2	15·4	15·5	15·5	15·4	15·5	15·4	15·4	15·2	15·2	15·2	15·5	15·4	15·5	15·6	*15·7*	15·5	15·4	15·4	15·4
Sept.	12·1	12·1	12·0	11·9	11·8	11·6	11·4	11·5	11·7	11·9	11·6	11·4	*11·3*	11·4	11·4	11·4	11·6	11·7	11·9	12·0	12·1	*12·3*	12·1	12·2	12·1	11·8
Oct.	9·9	9·9	9·9	9·9	9·8	9·8	*9·8*	9·9	10·0	10·2	10·2	10·1	10·1	10·1	10·3	10·3	10·2	10·3	*10·4*	10·3	10·2	10·2	10·1	10·1	9·9	10·1
Nov.	8·5	8·4	8·4	8·4	*8·4*	8·4	8·5	8·5	8·6	8·6	8·7	8·7	8·7	8·5	8·7	8·7	8·7	*8·8*	8·7	8·7	8·7	8·7	8·6	8·5	8·6	8·6
Dec.	6·9	7·0	7·0	7·0	7·0	6·9	*6·9*	6·9	7·0	7·2	7·3	7·4	7·4	*7·5*	7·4	7·4	7·4	7·3	7·4	7·3	7·3	7·2	7·1	7 0	6·9	7·2
Annual	9·6	9·6	9·5	9·5	9·4	9·4	*9·4*	9·4	9·5	9·6	9·6	9·6	9·6	9·6	9·7	9·7	9·7	9·8	9·8	9·8	9·8	*10·0*	9·5	9·6	9·6	9·6

* Mean of values, 1,2,.....23,½(0 + 24).

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

169 **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. 1944

	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	...	...	...	...	...	...	0·4	0·4	*8*	1·3	2·7	...	...	...	...	0·4	0·9	8
2	...	...	...	1·9	2·9	6	...	...	...	4·0	4·5	7	...	...	...	...	...	...
3	2·1	1·2	16	...	...	...	...	...	...	*16·0*	*9·0*	24	...	...	...	...	...	...
4	...	...	...	0·3	0·4	...	0·1	...	...	1·5	1·7	*31*	0·8	0·7	15	0·6	0·9	6
5	...	...	...	...	...	...	...	...	...	0·2	0·2	6	2·6	1·3	38	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	0·8	9
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	2·1	...
9	0·5	0·7	8	1·4	2·4	6	...	...	...	0·7	0·3	9	...	...	...	*19·7*	*10·9*	41
10	3·3	3·4	*20*	1·6	2·7	*10*	...	...	...	...	...	...	...	...	...	...	...	...
11	6·8	3·4	10	0·2	0·4	6	...	...	...	0·6	0·4	8	...	...	...	0·1	0·2	6
12	...	...	...	0·1	0·5	6	0·1	0·3	...	0·1	0·3	...	...	...	...	...	...	...
13	...	...	...	0·9	1·7	6	0·2	0·2	6	...	...	...	*7·7*	*3·4*	15	2·2	2·0	7
14	...	...	...	...	...	...	*0·5*	0·9	...	0·1	0·2	...	...	...	...	0·7	0·3	25
15	0 2	...	...	...	...	...	...	...	...	0·9	1·3	6	...	...	...	0·4	0·6	6
16	...	...	...	*9·7*	*8·3*	8	...	...	...	1·3	1·7	8	2·4	2·7	19	0·2	0·3	...
17	0·8	2·3	6	...	...	...	...	...	...	...	...	...	3·9	1·6	*43*	...	...	...
18	3·4	6·8	8	0·3	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...
19	6·2	*7·7*	6	...	...	...	0·2	1·1	...	4·5	4·6	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	2·0	2·2	7	...	...	...	...	...	...
21	...	...	...	...	...	...	0·1	0·3	...	...	...	...	...	...	...	...	...	...
22	0·9	2·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	*8·2*	5·0	*20*	0·1	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...
24	4·3	1·7	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	0·1	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	2·7	4·2	6	0·5	0·7	6	...	...	...	...	...	...	...	...	...	7·0	4·7	10
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·4	1·2	*45*
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	1·1	...
29	...	...	...	...	...	...	0·1	0·4	...	...	...	...	...	...	...	...	...	...
30	...	...	...				*0·5*	*1·2*	6	...	...	...	...	...	...	1·3	1·6	...
31	...	...	...				...	...	...				...	...	...			
Total	39·5	39·0	–	17·0	20·5	–	2·2	4·8	–	33·2	29·1	–	17·4	9·7	–	38·4	27·6	–

	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	4·5	3·7	7	...	...	...	0·2	0·2	...	0·6	1·8	...	...	...	...	...	...	...
2	1·7	2·4	7	...	...	...	*17·6*	5·7	56	...	...	...	...	...	...	2·1	2·2	*38*
3	*11·0*	*4·9*	19	...	...	...	1·3	3·2	8	0·2	0·2	6	0·6	2·2	...	1·1	1·9	6
4	...	...	...	1·0	0·8	23	6·3	6·8	8	2·1	1·8	19	0·1	...	...	...	...	...
5	1·2	0·9	10	...	...	...	...	...	...	...	...	...	14·4	4·7	41	...	...	...
6	1·8	0·6	*53*	1·4	0·5	15	...	...	...	...	...	...	7·7	1·2	*78*	0·7	1·4	...
7	2·6	2·8	6	...	...	...	11·4	*12·4*	28	...	...	...	0·2	0·4	6	2·2	2·6	6
8	0·2	0·6	...	...	...	...	1·7	0·8	30	...	...	...	4·3	4·1	6	2·9	1·7	8
9	2·2	2·6	6	...	...	...	...	...	...	0·2	0·6	...	...	...	...	...	...	...
10	0·9	0·2	21	...	...	...	...	...	...	...	...	...	...	...	...	3·3	5·1	6
11	0·2	0·5	6	...	...	...	...	...	...	5·9	3·0	21	1·2	3·3	...	0·2	0·2	6
12	...	...	...	...	...	...	...	...	...	2·6	3·4	7	2·1	2·6	...	0·9	2·2	6
13	4·2	3·1	8	...	...	...	...	...	...	4·4	3·4	9	0·7	0·7	7	...	...	...
14	...	...	...	...	...	...	...	...	...	1·0	0·4	25	0·6	1·1	6	...	...	...
15	2·4	0·8	52	...	...	...	...	...	...	...	...	...	1·0	1·2	7	...	...	...
16	...	...	...	...	...	...	...	...	...	11·3	3·3	*49*	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	*13·2*	*6·1*	25	*21·7*	*17·3*	8	0·8	1·3	6
18	...	...	...	...	...	...	...	...	...	1·8	1·5	8	2·4	3·9	6	*11·8*	*9·4*	11
19	...	...	...	2·9	2·0	6	1·1	1·1	6	...	...	...	0·6	0·9	...	0·5	0·7	...
20	...	...	...	14·9	6·1	18	...	...	...	8·0	5·7	11	4·1	2·1	37	...	...	...
21	1·8	1·3	6	0·2	0·8	...	...	...	...	0·8	1·0	12	1·1	0·8	6	0·3	...	...
22	2·5	1·6	11	0·3	1·2	...	0·4	1·3	...	...	...	...	7·3	6·7	16	0·5	1·2	6
23	...	...	...	0·4	1·1	7	0·6	1·2	6	5·9	2·9	22	9·8	3·6	49	2·7	4·9	6
24	...	...	...	*18·1*	*6·3*	17	7·0	4·4	42	3·8	3·8	7	0·6	0·9	6	...	...	...
25	...	...	...	0·1	...	...	0·1	0·7	...	...	...	...	0·2	0·1	6	...	...	...
26	0·2	0·3	6	...	...	...	2·5	0·7	*94*	0·2	0·7	...	1·5	1·0	15	...	...	...
27	0·2	0·3	6	...	...	...	0·3	0·4	6	4·3	4·1	9	0·2	0·2	...	...	...	...
28	...	...	...	2·4	1·4	8	...	...	...	0·2	0·4	7	4·5	5·2	11	...	...	...
29	3·5	2·4	12	1·2	0·8	6	0·2	0·4	6	1·2	1·3	6	...	...	...	...	...	...
30	1·2	0·5	17	1·9	1·2	13	6·0	4·0	7	...	...	...	...	...	...	0·1	...	...
31	...	...	...	5·3	1·0	*45*				1·1	1·3	6				0·2	...	...
Total	42·3	29·5	–	50·1	23·2	–	56·7	42·5	–	68·8	46·7	–	86·9	64·2	–	30·3	34·8	–

RAINFALL

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

170 KEW OBSERVATORY: h_r = 5·5 m. + 0·53 m. 1944

	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	0-24
	millimetres																								
Jan.	1·5	1·7	3·4	3·2	2·1	0·4	0·5	···	···	···	2·1	4·1	1·6	1·1	0·7	0·5	3·2	*4·7*	1·2	2·1	2·1	1·1	1·2	1·0	39·5
Feb.	0·9	*2·3*	0·3	0·2	0·2	0·2	0·5	1·4	2·0	0·8	1·4	1·4	2·3	0·4	0·2	0·9	0·6	0·8	···	···	0·2	0·1	···	0·1	17·0
Mar.	···	···	0·1	0·2	0·1	0·1	0·1	···	0·3	0·1	···	···	···	···	0·1	···	···	···	···	···	···	*0·4*	0·3	*0·4*	2·2
Apr.	1·4	1·8	2·5	1·9	0·6	0·1	0·1	···	···	0·7	0·7	0·6	···	0·7	0·6	0·1	1·7	2·9	*4·7*	2·1	2·5	2·9	2·3	2·3	33·2
May	···	···	···	···	···	0·2	···	···	···	···	1·3	1·5	0·5	0·8	···	0·8	4·3	*5·3*	2·2	0·3	···	···	0·1	0·1	17·4
June	0·4	0·7	1·8	1·8	0·4	1·0	1·4	0·8	1·2	1·6	···	0·1	4·6	3·0	1·0	*6·2*	5·1	2·6	0·2	0·2	0·2	0·8	2·3	3·0	38·4
July	4·4	1·6	0·3	1·2	1·8	1·3	1·1	0·3	1·8	1·6	3·3	2·4	*7·2*	3·0	1·3	0·3	0·5	0·7	3·6	0·3	0·3	1·9	0·3	1·8	42·3
Aug.	···	0·1	···	···	0·1	0·5	6·4	3·6	0·8	3·3	5·8	1·2	···	3·6	*8·6*	2·8	3·6	3·6	3·5	0·9	0·1	···	1·5	0·1	50·1
Sept.	1·3	2·7	4·1	2·8	1·0	4·7	1·0	1·3	3·1	1·3	2·3	1·2	*8·7*	2·6	5·3	0·9	1·5	2·8	···	0·5	2·0	1·7	2·1	1·8	56·7
Oct.	0·4	1·2	1·2	3·0	4·0	1·3	1·8	3·6	5·2	0·5	2·5	5·8	*7·7*	5·3	9·0	5·9	2·4	2·3	3·1	1·1	0·8	···	0·5	0·2	46·8
Nov.	3·0	2·0	4·3	7·5	3·8	4·4	3·0	1·6	1·6	3·0	2·6	2·9	2·6	1·3	5·4	*10·7*	4·8	4·0	3·2	3·6	0·5	0·6	0·6	9·7	86·9
Dec.	1·6	1·6	2·5	3·1	*3·4*	2·3	2·6	1·3	3·0	0·3	0·3	0·6	0·4	1·3	0·6	0·8	0·8	0·5	0·4	0·3	0·2	0·2	1·4	0·8	30·3
Annual	14·9	15·5	19·5	23·9	17·5	16·7	18·5	13·9	19·0	13·2	22·3	21·8	*35·6*	23·1	32·8	29·9	28·5	30·2	22·1	11·4	8·9	9·7	12·6	21·3	482·8

RAINFALL

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

171 KEW OBSERVATORY: h_r = 5·5 m. + 0·53 m. 1944

	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	0-24
	millimetres																								
Jan.	2·0	2·0	*2·9*	2·8	2·0	0·9	1·1	···	···	···	1·3	2·0	2·3	1·2	1·1	1·2	*2·9*	1·6	1·1	1·8	2·5	2·2	2·2	1·9	39·0
Feb.	1·7	*2·3*	1·3	0·6	0·7	0·3	0·9	1·1	1·3	1·0	1·3	1·1	1·3	1·0	0·5	1·0	1·0	0·9	···	···	0·4	0·3	···	0·5	20·5
Mar.	···	···	0·4	0·5	0·1	0·5	0·3	···	0·5	0·5	···	···	···	···	0·3	···	···	···	···	···	···	0·5	*0·8*	0·4	4·8
Apr.	2·6	2·2	2·2	2·0	0·9	0·3	0·1	···	···	0·6	0·8	0·4	···	0·6	0·9	0·4	1·0	1·1	1·2	1·6	2·0	2·7	*3·0*	2·5	29·1
May	···	···	···	···	···	0·4	···	···	···	···	0·7	0·8	0·4	0·9	···	0·9	0·9	*1·7*	*1·7*	0·6	···	···	0·4	0·3	9·7
June	1·4	1·1	1·2	1·1	1·2	1·5	1·7	1·4	1·3	0·2	···	0·1	1·0	1·0	0·5	*2·8*	1·6	1·7	0·2	0·8	0·5	1·1	2·0	2·2	27·6
July	2·6	1·5	0·5	0·9	1·7	0·8	1·2	0·5	1·3	1·0	1·6	2·0	*3·5*	1·9	1·4	0·4	0·4	1·1	1·5	0·6	0·5	0·9	0·6	1·1	29·5
Aug.	···	0·3	···	···	0·1	1·1	*2·9*	2·5	1·0	1·0	1·2	0·4	···	1·0	1·8	2·0	1·3	1·9	1·6	1·0	0·2	0·1	1·5	0·3	23·2
Sept.	1·4	*3·4*	2·5	1·9	1·2	1·9	1·4	1·2	2·1	1·5	1·5	1·5	2·3	2·7	1·9	1·3	1·4	1·6	0·1	1·4	1·8	1·4	2·3	2·8	42·5
Oct.	0·8	1·7	1·9	2·5	3·0	1·8	1·6	2·5	1·6	0·7	1·5	2·5	4·0	4·0	*4·1*	3·8	1·9	2·5	1·9	0·5	0·6	···	0·6	0·7	46·7
Nov.	2·9	3·6	3·3	3·5	3·4	2·9	1·9	2·7	2·7	2·7	1·7	1·8	1·7	1·6	2·9	*4·5*	3·5	2·6	3·4	3·0	1·9	1·3	1·1	3·6	64·2
Dec.	2·4	1·9	*3·2*	3·1	2·5	1·8	*3·2*	2·5	2·2	0·7	0·2	1·0	0·9	2·0	0·7	1·0	1·5	0·6	0·5	0·2	0·2	0·1	0·9	1·5	34·8
Annual	17·8	*20·0*	19·4	18·9	16·8	14·2	16·3	14·4	14·0	9·9	11·8	13·6	17·4	17·9	16·1	19·3	17·4	17·3	13·2	11·5	10·6	10·6	15·4	17·8	371·6

NOTES ON RAINFALL

172 KEW OBSERVATORY 1944

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": None occurred in 1944.
"Partial drought": February 17 – April 2.
"Dry spell": February 17 – March 31; May 18 – June 7.

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.

No "rain spells" or "wet spells" occurred in 1944.

Rainfall Duration

Hours	0·1–1·0	1·1–2·0	2·1–6·0	6·1–12·0	>12·0
Number of days	63	37	51	10	2

Continuous or Heavy Falls

The fall of the longest duration occurred on November 17 when 17 mm. fell in 10 hr. 48 min.

Heavy Falls in short periods

On November 5 and 6, 5 mm. fell in 12 min. and 15 min. respectively.

Rates of Rainfall (Jardi Recorder)

The highest instantaneous rate of rainfall recorded by this instrument was 94 mm./hr. at 3h. 50m. on September 26. The maximum rate exceeded 50 mm./hr. on July 6 and 15, September 2 and 26, and November 6.

DURATION OF BRIGHT SUNSHINE AND TOTAL SOLAR RADIATION FOR EACH DAY

Solar radiation received on a surface perpendicular to the solar beam

173 KEW OBSERVATORY: h_s(height of records above ground) = 13·3 m. 1944

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Total for day	Per cent. of possible	Solar radiation	Total for day	Per cent. of possible	Solar radiation	Total for day	Per cent. of possible	Solar radiation	Total for day	Per cent. of possible	Solar radiation	Total for day	Per cent. of possible	Solar radiation	Total for day	Per cent. of possible	Solar radiation
	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	0·6	7	90	...	...	...	...	...	30	...	...	...	10·5	71	1350	1·5	9	240
2	0·1	1	10	...	...	...	7·6	70	960	...	...	...	10·6	71	1910	12·0	74	2460
3	...	...	...	1·5	16	110	6·8	62	960	0·2	2	30	*12·9*	*87*	2380	4·7	39	550
4	5·1	65	630	4·7	51	650	7·0	63	980	1·2	9	160	0·3	2	80	4·0	25	710
5	1·3	16	240	5·3	57	620	2·7	24	240	0·3	2	30	6·0	40	870	2·9	18	370
6	...	...	...	0·1	1	150	0·3	3	30	0·4	3	50	1·4	9	220	5·0	31	690
7	0·7	9	130	1·0	11	80	3·2	28	360	0·5	4	120	12·1	81	1820	0·7	4	80
8	...	...	...	5·1	54	590	7·4	65	1040	3·9	29	490	12·7	84	2240	3·8	23	410
9	...	...	...	1·5	16	230	...	...	...	4·0	30	610	12·4	81	2190	0·1	1	...
10	...	...	...	4·9	51	430	...	...	...	2·5	19	390	6·7	44	790	5·6	34	680
11	...	...	...	2·1	22	170	0·2	2	20	3·4	25	450	*12·9*	84	1840	0·1	1	30
12	...	...	...	1·7	18	160	1·4	12	50	8·4	62	1220	11·2	73	1480	10·4	63	1790
13	...	...	...	...	...	...	5·1	44	810	0·2	1	80	6·2	40	610	7·7	47	1400
14	*5·8*	*71*	*750*	...	...	...	0·2	2	40	3·6	26	460	6·4	41	1270	11·2	68	1970
15	...	...	...	5·5	56	780	6·4	54	1050	0·4	3	80	5·8	37	740	7·6	46	1290
16	...	...	...	...	...	...	...	...	...	...	...	...	0·6	4	100	1·4	9	220
17	...	...	10	...	...	...	2·4	20	220	...	...	...	2·0	13	270	13·4	81	1900
18	...	...	...	...	...	...	0·7	6	210	9·3	67	1040	2·1	13	240	13·3	80	2460
19	...	...	...	...	...	...	1·7	14	350	7·7	55	1500	5·2	33	470	6·4	39	700
20	1·6	19	360	0·8	8	100	0·8	7	100	9·7	69	1420	7·2	46	680	*15·0*	*90*	*3120*
21	5·0	59	610	0·4	4	50	...	...	...	3·8	27	710	0·6	4	50	5·6	34	740
22	...	...	...	...	...	30	4·1	33	600	12·1	85	*2340*	9·4	59	1170	13·2	80	2420
23	3·8	44	520	0·1	1	...	4·2	34	450	10·7	75	1610	0·8	5	110	4·7	28	710
24	0·1	1	20	*7·7*	*74*	800	5·0	40	570	2·3	16	370	8·5	53	1010	14·5	88	2880
25	2·0	23	280	...	...	...	1·7	14	200	10·6	73	1240	0·5	3	120	4·1	25	490
26	...	...	...	...	...	...	*10·7*	*86*	*1540*	8·6	59	1210	6·1	38	810	0·2	1	20
27	1·0	11	80	...	...	...	4·6	37	430	*12·8*	*88*	2290	10·9	68	*2420*	9·8	59	1700
28	0·1	1	0	5·1	48	520	5·5	44	660	6·6	45	740	12·7	79	1740	1·0	6	70
29	...	...	...	7·5	70	*1010*	...	...	...	0·8	5	100	11·2	69	1430	3·5	21	400
30	3·4	38	370				4·6	36	720	12·3	84	1870	11·4	71	1420	3·6	22	540
31	0·1	1	...				6·2	48	800				9·6	59	1030			
Mean	0·99		130	1·90		220	3·24		430	4·54		690	7·32		1060	6·23		1030

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Total for day	Per cent. of possible	Solar radiation	Total for day	Per cent. of possible	Solar radiation	Total for day	Per cent. of possible	Solar radiation	Total for day	Per cent. of possible	Solar radiation	Total for day	Per cent. of possible	Solar radiation	Total for day	Per cent. of possible	Solar radiation
	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	0·6	4	70	5·7	37	560	7·3	54	1050	5·2	45	710	1·8	19	210	0·1	1	...
2	1·1	7	100	6·0	39	860	2·1	16	330	*10·2*	*88*	*1800*	2·2	23	210	3·7	46	450
3	...	...	...	7·4	48	1250	4·7	35	830	7·4	65	1130	...	...	...	...	...	...
4	4·4	27	510	10·3	68	1910	0·3	2	...	2·0	18	190	5·1	55	540	4·8	60	490
5	2·0	12	220	8·0	53	1180	10·0	75	1250	5·2	46	540	0·6	6	50	*6·0*	*75*	*680*
6	*13·0*	*79*	*2490*	3·5	23	420	6·2	47	960	9·1	81	1100	2·9	31	390	3·1	39	290
7	4·1	25	940	*13·2*	*88*	*2580*	...	...	10	0·1	1	20	0·3	3	50	0·4	5	30
8	4·6	28	610	7·6	51	1050	7·9	60	1310	0·2	2	...	...	...	...	0·2	3	10
9	2·9	18	320	7·8	52	1400	10·0	77	*1720*	0·4	4	...	5·5	60	500	3·9	49	310
10	4·0	25	430	5·0	34	610	*10·2*	*79*	1460	1·5	14	210	1·4	15	200	...	...	...
11	0·3	2	20	9·3	63	1150	9·6	74	1030	0·1	1	10	...	...	...	3·2	41	380
12	2·4	15	330	4·5	31	640	8·9	70	1500	...	...	...	0·5	6	60	0·1	1	...
13	0·7	4	60	10·2	70	1650	6·8	53	790	4·0	37	720	1·9	21	160	...	...	40
14	3·4	21	380	12·1	83	1900	0·6	5	70	7·3	68	1050	0·7	8	50	...	...	...
15	0·9	6	110	11·3	78	2140	1·1	9	100	1·7	16	170	0·5	6	70	...	...	...
16	5·1	32	600	11·2	77	1560	7·1	56	1130	3·5	33	490	3·0	34	250	0·8	10	50
17	5·1	32	450	3·0	21	370	8·0	64	1350	0·6	6	70	...	...	...	0·3	4	20
18	8·4	52	1010	9·0	63	1200	0·2	2	10	3·7	35	420	...	...	...	5·0	65	480
19	5·7	36	480	0·3	2	30	1·1	9	110	0·4	4	...	...	...	...	...	...	...
20	7·0	44	740	0·2	1	10	2·5	20	280	0·4	4	50	1·4	16	90	...	...	...
21	2·6	16	310	...	...	...	5·1	42	390	3·5	34	440	*6·0*	70	570	...	...	...
22	0·1	1	...	0·2	1	10	0·5	4	80	0·8	8	70	...	...	...	...	...	...
23	0·6	4	50	6·7	47	1010	6·2	51	970	0·2	2	10	1·3	15	120	0·2	3	50
24	0·3	2	10	1·0	7	90	1·3	11	90	0·1	1	30	0·2	2	20	3·1	40	250
25	2·4	15	290	7·1	51	1150	1·6	13	260	0·2	2	20	4·1	49	500	...	...	...
26	7·5	48	1350	9·2	66	1810	9·1	76	1400	...	...	...	1·2	14	170	...	...	...
27	7·1	46	940	10·9	79	2120	4·6	39	550	5·5	56	870	1·7	21	190	...	...	...
28	2·6	17	430	5·9	42	1080	3·7	31	610	2·9	30	460	0·2	2	30	1·9	25	100
29	1·8	12	190	0·4	3	50	0·5	4	80	0·1	1	...	5·9	*72*	*700*	...	...	...
30	2·9	19	340	4·9	36	870	5·6	48	950	4·4	45	430	2·2	27	220	1·3	16	70
31	3·7	24	540	7·4	54	1260				...	...	...				2·8	36	200
Mean	3·47		460	6·43		1030	4·76		690	2·60		350	1·69		180	1·32		130
							Annual Mean			3·71		530						

See Introduction for corrections to tabulated values of radiation.

DURATION OF BRIGHT SUNSHINE

Monthly and annual totals between exact hours, local apparent time

174 KEW OBSERVATORY: h_s (height of recorder above ground) = 13·3 m. 1944

	Hour L.A.T. 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	Total	per cent. of possible
	hours																			%
Jan.	–	–	–	–	···	0·4	3·7	*6·1*	5·8	5·8	5·2	3·0	0·7	···	–	–	–	–	30·7	12
Feb.	–	–	–	···	0·2	5·0	8·8	*10·2*	9·3	6·9	5·7	4·5	3·7	0·7	···	–	–	–	55·0	19
Mar.	–	–	···	0·4	4·0	10·0	9·3	10·8	12·5	12·7	12·2	*12·9*	10·8	4·5	0·4	···	–	–	100·5	27
Apr.	–	···	1·5	6·3	8·9	11·7	11·8	*14·1*	13·3	12·0	12·6	11·5	10·5	10·6	9·8	1·7	···	–	136·3	33
May	···	···	6·5	15·5	17·1	18·6	*20·2*	20·6	19·5	19·7	18·6	16·7	18·1	15·4	13·3	6·9	0·2	···	226·9	47
June	···	2·7	9·6	14·0	13·5	13·3	12·1	12·1	13·8	12·9	13·8	*15·0*	12·6	12·6	13·1	11·1	4·8	···	187·0	38
July	···	0·9	3·4	6·3	5·3	5·5	6·9	10·7	8·3	8·0	9·7	*10·8*	8·6	10·3	7·2	4·6	0·8	···	107·3	22
Aug.	–	···	2·8	7·9	12·0	14·7	17·4	16·1	17·2	*19·1*	*19·1*	18·7	16·9	15·1	14·5	7·7	0·1	–	199·3	44
Sept.	–	–	1·0	6·1	11·8	15·0	16·2	*16·3*	15·6	13·7	12·4	11·5	11·7	7·7	3·5	0·3	–	–	142·8	38
Oct.	–	–	–	0·1	4·5	8·5	*10·6*	10·5	10·7	8·4	6·5	8·1	8·3	4·3	0·2	–	–	–	80·7	24
Nov.	–	–	–	···	···	3·6	7·6	8·3	8·9	*9·8*	7·3	4·1	1·0	···	–	–	–	–	50·6	19
Dec.	–	–	–	–	···	0·6	4·0	7·7	8·4	*8·5*	8·0	3·6	0·1	–	–	–	–	–	40·9	17
Annual	···	3·6	24·8	56·6	77·3	106·9	128·6	*143·5*	143·3	137·5	131·1	120·4	103·0	81·2	62·0	32·3	5·9	···	1358·0	30

SOLAR RADIATION RECEIVED ON A SURFACE PERPENDICULAR TO THE SOLAR BEAM

Monthly and annual totals between exact hours, local apparent time

175 KEW OBSERVATORY: h_s = 13·3 m. 1944

	Hour L.A.T. 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	Total
	joules per square centimetre																		
Jan.	–	–	–	–	···	100	490	830	960	730	570	280	130	···	–	–	–	–	4090
Feb.	–	–	–	···	120	450	950	1210	1260	870	650	440	410	110	···	–	–	–	6470
Mar.	–	–	...	130	630	1290	1370	1520	1580	1730	1720	1380	1210	660	150	···	–	–	13370
Apr.	–	...	220	840	1200	1650	1870	2300	2090	2110	2100	1880	1530	1390	1110	270	10	–	20570
May	···	120	860	1670	1870	2320	3030	3520	3450	3250	3020	2650	2800	1940	1490	750	110	···	32850
June	···	310	1030	1950	2100	2190	2250	2180	2710	2340	2730	2820	2280	2170	2000	1410	530	10	31010
July	50	290	470	640	570	820	720	1150	1350	1240	1350	1630	1320	1380	830	430	70	···	14310
Aug.	–	···	230	960	1660	2270	3010	3280	3070	3500	3600	3280	2650	2170	1610	630	40	–	31960
Sept.	–	–	100	880	1720	2090	2650	2780	2250	2270	1750	1530	1350	880	410	20	–	–	20680
Oct.	–	–	–	50	480	1070	1570	1670	1520	1200	1050	990	890	450	60	–	–	–	11000
Nov.	–	–	–	–	20	380	790	750	900	1170	780	400	150	10	–	–	–	–	5350
Dec.	–	–	–	–	–	40	340	840	830	730	680	330	120	···	–	–	–	–	3910
Annual	50	720	2910	7120	10370	14670	19040	22030	21970	21140	20000	17610	14840	11160	7650	3510	760	10	195570

See Introduction for correction to tabulated values.

WIND

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

176 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. 1944

	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	4·5	13	6·1	17	3·6	12	3·6	10	2·7	11	3·7	15	4·8	15	3·1	11	4·9	14	3·6	14	2·9	10	6·9	19
2	5·6	15	6·5	19	4·2	15	3·3	11	*6·7*	*21*	4·9	15	3·8	13	4·8	10	5·6	19	2·8	9	1·6	10	6·1	20
3	6·3	18	7·3	21	4·0	17	3·7	12	5·5	20	4·4	15	1·8	9	4·0	10	5·7	20	4·4	14	2·7	10	6·5	21
4	4·6	16	7·2	*26*	4·2	14	4·6	13	3·8	15	7·2	*23*	2·6	11	3·6	11	8·3	21	4·9	17	6·0	17	6·0	24
5	2·9	11	3·3	10	2·3	8	3·9	11	6·1	21	5·4	15	3·6	14	3·4	11	6·5	19	4·9	13	7·4	*26*	4·1	13
6	5·8	13	3·1	13	*1·2*	8	3·5	11	4·9	17	4·1	13	4·9	*17*	2·4	12	3·0	11	*7·5*	17	5·5	22	3·6	14
7	3·8	11	5·0	15	4·8	15	*5·5*	13	2·2	10	4·0	14	3·5	13	1·1	7	2·3	10	5·7	19	6·2	21	2·9	10
8	5·1	15	5·9	18	6·2	17	4·6	11	1·3	9	3·0	12	3·6	13	1·4	13	3·4	15	2·2	10	2·0	10	4·1	11
9	6·0	15	4·9	16	4·0	13	3·9	14	*1·0*	9	3·2	10	4·8	13	2·6	10	2·4	9	1·9	8	5·3	16	2·9	9
10	4·7	14	7·5	23	1·9	9	3·9	13	1·5	11	3·1	13	5·7	16	4·0	13	1·4	8	1·1	5	3·1	11	4·5	18
11	1·8	8	4·8	15	4·4	16	2·5	10	1·4	9	3·7	14	4·1	12	4·1	16	2·1	10	6·5	*20*	*0·8*	4	3·3	10
12	3·4	11	3·6	13	3·5	11	3·2	10	1·6	9	4·4	13	2·8	12	2·6	8	5·2	16	4·0	16	1·0	8	3·8	15
13	7·3	18	2·1	7	*7·4*	*25*	2·7	10	2·4	19	5·9	21	3·2	13	2·7	10	2·9	9	5·4	19	3·1	12	1·1	5
14	2·0	7	2·6	8	3·6	12	3·7	15	6·3	17	4·9	21	2·7	11	3·8	12	1·5	9	5·7	19	2·2	8	3·8	12
15	*0·9*	5	3·1	11	2·2	8	*2·0*	9	3·9	12	3·8	15	3·7	13	5·0	14	4·1	15	0·7	5	3·4	12	1·8	7
16	1·1	5	4·2	15	2·3	9	3·0	11	1·8	13	5·0	14	1·7	7	2·1	13	2·8	13	4·8	17	1·9	8	4·4	18
17	2·8	12	6·9	17	1·2	4	2·7	9	4·7	16	6·8	18	2·5	13	4·3	13	*0·9*	6	6·1	18	7·5	17	*8·5*	*25*
18	4·8	14	4·9	13	3·6	12	2·2	8	2·8	9	4·4	12	4·5	11	4·8	15	1·8	7	7·1	20	6·2	15	4·5	15
19	3·8	11	6·2	16	4·7	14	4·6	*17*	1·1	7	6·9	18	4·2	10	2·9	14	1·1	5	4·6	15	*8·2*	23	0·8	5
20	3·1	11	*7·5*	19	4·1	13	4·2	13	3·4	14	*7·8*	18	5·1	13	3·4	13	1·3	7	4·6	19	6·3	19	0·9	4
21	5·1	14	6·1	15	3·3	13	3·6	13	5·9	15	7·0	15	*6·8*	16	*7·1*	18	0·9	5	3·6	11	2·5	10	1·3	5
22	*10·3*	24	4·1	14	2·5	9	2·2	10	2·6	11	5·4	14	3·0	12	4·3	13	1·7	8	2·0	7	5·5	16	1·6	9
23	8·7	*27*	2·7	8	1·7	8	2·5	9	1·8	8	4·0	11	1·6	7	3·9	13	3·2	11	2·6	15	4·8	15	2·8	10
24	6·5	25	4·9	15	1·7	9	4·1	15	2·7	12	*2·4*	13	*1·3*	6	1·8	11	*6·7*	*22*	5·3	16	3·7	16	3·1	11
25	8·1	23	4·5	12	1·7	8	4·1	14	5·4	17	4·7	16	2·6	9	1·9	8	4·0	12	2·2	8	3·6	10	1·2	5
26	4·4	14	*1·3*	6	2·7	10	3·1	10	5·2	15	3·7	14	4·2	14	*0·8*	5	4·1	15	*0·6*	6	2·7	13	0·9	5
27	6·1	20	1·6	8	1·9	8	3·1	12	2·1	8	5·9	19	5·5	16	2·3	9	4·4	15	3·4	14	2·1	12	1·4	4
28	5·2	15	5·1	15	2·3	9	3·4	13	2·5	10	7·1	21	3·2	11	4·8	18	2·3	9	2·5	12	6·3	19	1·2	7
29	4·6	12	3·5	10	2·5	10	2·4	10	1·7	9	4·3	15	3·4	13	1·6	8	4·2	13	2·1	8	2·9	9	*0·6*	3
30	3·5	11			3·6	11	2·8	12	3·0	9	3·7	13	2·1	9	3·9	14	2·0	10	5·6	15	3·1	8	2·3	8
31	4·0	9			2·2	10			5·1	13			2·0	7	5·7	*20*			4·9	15			3·5	12

WIND

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

177 KEW OBSERVATORY: h_a = 5 m. + 23 m. 1944

	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.	4·4	4·4	4·4	4·3	4·2	4·4	*4·2*	4·4	4·5	4·7	5·0	5·1	5·5	*5·5*	5·2	5·2	5·1	4·8	5·1	4·9	4·8	4·7	4·5	4·3	4·7
Feb.	4·1	4·0	*3·9*	4·0	4·1	3·9	4·0	4·4	4·5	4·9	5·6	5·8	5·8	5·9	*5·9*	5·6	5·3	4·9	4·7	4·6	4·5	4·4	4·3	4·2	4·7
Mar.	2·6	2·4	2·5	2·6	2·5	*2·3*	2·4	2·4	3·1	3·6	4·0	4·1	4·4	*4·4*	4·4	4·3	4·0	3·5	3·1	3·2	3·0	2·9	2·9	2·7	3·2
Apr.	2·6	2·4	2·4	2·2	*2·2*	2·3	2·5	3·1	3·6	3·9	4·4	4·4	4·5	*4·7*	4·6	4·6	4·5	4·4	4·0	3·5	3·2	2·9	2·6	2·5	3·4
May	2·1	2·1	*2·1*	2·1	2·1	2·3	2·6	3·0	3·4	3·7	4·0	4·2	4·5	4·6	4·5	*4·6*	4·4	4·5	4·2	3·8	3·3	2·8	2·7	2·4	3·3
June	3·3	3·4	3·5	*3·3*	3·3	3·7	4·4	4·9	5·1	5·4	5·8	6·1	6·3	6·2	*6·4*	6·3	6·1	6·1	5·4	4·9	4·4	4·0	3·7	3·5	4·8
July	2·7	2·5	*2·5*	2·6	2·6	2·6	2·9	3·5	3·7	3·9	4·2	4·2	4·3	4·5	4·7	*4·9*	4·8	4·5	4·1	3·7	3·1	2·9	2·7	2·7	3·5
Aug.	2·3	2·4	2·2	*2·2*	2·4	2·3	2·6	2·9	3·2	3·7	4·2	4·6	4·6	4·5	*4·7*	4·5	4·4	4·2	3·8	3·5	3·1	2·9	2·8	2·6	3·4
Sept.	2·8	2·8	2·7	2·6	2·5	*2·4*	2·5	2·9	3·3	3·8	4·2	4·4	4·5	4·5	*4·5*	4·4	4·3	3·8	3·5	3·0	2·8	2·9	2·8	2·8	3·4
Oct.	*3·2*	3·3	3·5	3·3	3·5	3·5	3·6	3·8	4·1	4·6	*5·1*	5·0	4·9	4·9	4·5	4·5	4·6	4·1	3·8	3·6	3·5	3·6	3·5	3·4	4·0
Nov.	3·5	3·7	3·8	4·0	4·1	4·0	4·1	4·3	4·4	4·5	4·6	4·8	*5·0*	4·9	4·4	3·8	3·7	3·5	3·5	3·7	3·7	3·7	3·5	*3·3*	4·0
Dec.	3·2	3·0	3·1	2·8	2·9	*2·8*	2·9	2·9	3·1	3·1	3·4	3·8	*4·1*	4·0	3·8	3·5	3·4	3·2	3·0	3·1	3·2	3·1	3·1	3·1	3·2
Annual	3·1	3·3	3·3	*3·0*	3·0	3·0	3·2	3·5	3·8	4·1	4·5	4·7	4·9	*4·9*	4·8	4·7	4·5	4·3	4·0	3·8	3·5	3·4	3·3	3·1	3·8

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

178 KEW OBSERVATORY: h_a = 5 m. + 23 m. 1944

	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	18	235	406	85	0	220	14	23 03	27	23 01 15
Feb.	–	0	1	2	271	375	48	0	350	11	10 12	26	4 08 00
Mar.	–	0	1	1	102	473	168	0	325	11	13 15	25	13 13 20
Apr.	–	0	0	0	98	504	118	0	210	9	19 15	17	19 13 40
May	–	0	0	0	168	381	195	0	270	10	2 16	21	2 17 20
June	–	0	2	4	252	422	42	0	230	12	4 17	23	4 16 30
July	–	0	0	0	126	496	122	0	35	9	21 14	17	6 11 40
Aug.	–	0	0	0	121	461	162	0	25	9	21 15	20	31 16 15
Sept.	–	0	1	1	122	420	177	0	220	13	4 13	22	24 14 10
Oct.	–	0	0	0	221	393	130	0	220	10	11 18	20	11 16 15
Nov.	–	0	3	14	171	408	127	0	220	13	19 09	26	5 11 40
Dec.	–	0	2	8	110	393	233	0	180	13	17 03	25	17 06 05
Year	–	0	14	48	1997	5132	1607	0	220	14	Jan. 23 03	27	Jan. 23 01 15

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	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	77·0	80·1	79·8	80·0	75·8	79·0	78·8	80·0	85·5	83·1	89·9	84·9	89·1	86·5	90·9	88·1	89·9	89·2	86·3	87·0	81·3	84·5	80·4	82·3
2	78·0	80·1	80·8	80·1	75·8	79·0	78·8	79·9	86·0	79·9	89·6	85·1	89·6	86·5	91·0	88·1	90·0	89·1	85·2	87·0	81·0	84·3	81·0	82·2
3	78·6	80·1	81·0	80·1	75·6	79·0	80·1	79·9	86·5	83·2	89·6	85·2	90·0	86·7	90·9	88·2	88·9	89·1	85·2	87·0	80·3	84·1	79·9	82·2
4	78·6	80·1	80·0	80·2	75·1	79·0	81·3	80·0	85·2	83·3	89·5	85·3	89·6	86·8	91·1	88·2	89·2	89·0	85·0	86·9	80·5	84·1	80·5	82·2
5	76·9	80·1	78·2	80·2	75·1	78·9	81·8	80·1	84·6	83·4	89·0	85·5	90·0	86·9	91·1	88·2	89·0	88·9	84·8	86·8	81·7	84·1	79·3	82·1
6	76·9	80·1	77·1	80·2	75·0	78·9	82·0	80·1	84·1	83·5	88·3	85·7	90·3	87·1	91·0	88·3	88·2	88·8	84·6	86·6	81·3	84·0	78·2	82·1
7	77·6	80·1	78·0	80·2	75·0	78·7	81·3	80·2	83·3	83·5	87·7	85·8	91·1	87·0	91·1	88·4	88·2	88·7	84·6	86·4	81·4	83·9	78·7	82·1
8	78·0	80·1	78·3	80·2	75·4	78·6	81·0	80·5	83·5	83·6	87·4	85·8	90·4	87·1	91·2	88·4	87·7	88·7	84·2	86·3	80·9	83·9	78·0	82·0
9	78·9	80·1	77·8	80·1	76·3	78·5	82·0	80·6	84·0	83·6	87·8	85·8	90·6	87·2	91·7	88·5	87·0	88·5	84·8	86·2	79·9	83·8	77·2	81·9
10	79·8	80·1	78·0	80·1	76·0	78·5	81·8	80·8	84·8	83·5	87·6	85·8	89·6	87·2	91·9	88·4	86·5	88·4	84·8	86·1	78·8	83·7	76·8	81·7
11	77·7	80·1	77·3	80·1	76·7	78·5	81·9	80·9	85·4	83·6	87·2	85·8	89·8	87·2	92·4	88·8	85·9	88·1	85·0	86·1	79·0	83·4	77·0	81·4
12	78·0	80·1	77·4	80·1	77·3	78·7	82·0	81·0	86·6	83·7	87·2	85·8	89·1	87·4	92·0	88·7	86·0	88·1	84·8	86·1	78·3	83·2	77·4	81·2
13	79·5	80·1	77·5	80·0	78·2	78·7	82·9	81·1	86·9	83·8	87·8	85·8	89·9	87·4	92·1	88·9	86·6	88·0	84·0	86·1	78·8	83·1	77·1	81·1
14	79·3	80·2	77·2	80·0	77·7	78·8	82·4	81·2	86·1	83·9	87·9	85·9	89·9	87·4	91·8	88·9	86·9	87·9	84·2	86·1	78·7	83·0	76·7	81·1
15	77·9	80·2	77·5	80·0	77·0	78·9	82·9	81·3	85·1	84·0	87·9	86·0	90·1	87·3	91·8	88·9	87·9	87·8	83·4	85·9	78·6	82·9	77·1	81·0
16	77·3	80·2	77·7	80·0	76·8	78·9	83·1	81·3	84·7	84·1	88·8	86·0	90·3	87·4	91·7	89·0	87·7	87·8	83·4	85·9	78·0	82·8	77·2	80·9
17	77·1	80·2	77·8	79·9	77·2	79·0	82·8	81·5	83·9	84·1	88·1	86·1	90·8	87·4	92·8	89·0	87·1	87·7	83·8	85·8	78·1	82·3	78·8	80·8
18	78·8	80·1	76·9	79·9	77·2	79·0	82·4	81·7	84·0	84·1	88·2	86·1	90·8	87·6	92·9	89·0	87·1	87·6	84·2	85·7	80·6	82·2	79·5	80·7
19	79·2	80·1	76·5	79·8	78·6	79·0	82·5	81·8	83·8	84·1	89·0	86·1	90·6	87·7	92·6	89·1	87·5	87·6	83·8	85·4	81·4	82·2	79·0	80·6
20	79·5	80·1	76·2	79·8	78·2	79·1	83·2	82·0	84·1	84·1	88·9	86·2	90·9	87·8	91·7	89·1	87·6	87·5	83·6	85·3	82·2	82·2	79·0	80·6
21	78·2	80·2	76·1	79·7	78·9	79·1	83·1	82·0	84·0	84·0	88·9	86·1	90·7	87·9	90·6	89·1	87·4	87·5	83·9	85·3	81·2	82·3	78·6	80·7
22	79·0	80·2	76·0	79·5	78·4	79·2	83·7	82·1	83·9	84·1	88·5	86·1	90·0	88·0	89·9	89·1	87·6	87·4	84·0	85·3	80·6	82·3	79·0	80·8
23	80·0	80·2	75·8	79·4	78·8	79·2	84·0	82·1	84·8	84·0	89·2	86·2	89·9	88·0	90·7	89·1	87·9	87·4	84·1	85·2	82·2	82·3	79·0	80·8
24	78·6	80·2	75·6	79·3	78·8	79·3	84·6	82·1	84·6	84·1	88·6	86·3	90·0	87·9	91·6	89·1	87·2	87·4	83·1	85·2	82·7	82·4	78·4	80·8
25	78·9	80·3	75·2	79·3	78·7	79·3	84·2	82·3	85·0	84·1	89·5	86·3	89·8	87·9	91·0	89·0	86·2	87·3	83·0	85·1	82·1	82·6	76·9	80·8
26	78·0	79·7	75·2	79·2	79·0	79·5	84·2	82·5	85·7	84·1	89·5	86·3	90·3	88·0	91·1	89·1	86·9	87·6	82·8	85·1	80·5	82·7	76·2	80·7
27	79·0	79·8	76·0	79·1	79·3	79·5	84·4	82·6	86·8	84·1	89·0	86·5	90·6	88·0	91·7	89·1	86·2	87·3	83·0	85·1	79·7	82·8	75·9	80·5
28	80·0	79·8	76·0	79·1	79·5	79·6	85·0	82·8	87·8	84·2	88·2	86·5	90·8	88·0	91·8	89·1	85·6	87·3	82·0	84·9	80·0	82·6	75·6	80·4
29	80·0	79·8	75·6	79·1	79·7	79·7	85·0	82·9	89·1	84·3	89·0	86·6	90·6	88·0	91·1	89·1	85·8	87·2	81·2	85·1	80·2	82·4	75·1	80·1
30	79·9	79·8			79·1	79·8	84·8	83·0	90·2	84·4	89·0	86·5	90·4	88·1	91·1	89·1	86·5	87·1	81·0	84·9	80·0	82·3	75·0	80·1
31	79·7	79·9			78·8	80·0			90·5	84·7			90·4	88·1	90·9	89·2			81·2	84·8			74·9	79·9
Mean	78·6	80·1	77·4	79·8	77·4	79·1	82·6	81·3	85·5	83·9	88·6	85·9	90·2	87·5	91·5	88·8	87·4	88·0	83·8	85·8	80·3	83·1	77·9	81·2
											Year		83·4	83·7										

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 18h. TO 7h*., G.M.T.

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	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	degrees Absolute											
1	76·4	78·1	67·8	*68·6*	75·0	81·0	84·9	82·2	83·3	77·4	71·9	74·5
2	76·9	83·1	68·1	75·2	78·1	85·1	88·5	86·1	81·9	71·3	68·1	79·2
3	78·3	79·7	64·7	79·5	81·1	79·7	87·8	87·6	79·2	76·4	67·5	73·5
4	71·9	70·8	64·5	81·3	67·6	80·2	81·8	80·2	87·0	78·0	73·3	78·5
5	*64·9*	68·7	66·4	78·6	74·0	80·2	81·1	81·2	85·4	78·1	82·3	73·1
6	73·1	*62·3*	*63·0*	77·4	74·2	79·1	81·9	79·7	78·7	79·9	71·8	65·7
7	75·8	76·8	56·3	77·9	*64·1*	81·4	88·6	77·1	81·8	80·3	78·0	75·4
8	76·8	74·3	70·2	76·8	64·6	73·6	81·4	78·7	76·4	74·1	74·7	69·2
9	80·4	71·3	74·7	76·1	66·9	84·8	82·9	79·9	75·8	78·7	71·5	66·9
10	76·3	70·3	64·7	70·9	70·3	80·2	83·1	85·9	*69·7*	73·5	68·4	68·3
11	65·6	71·6	69·1	72·2	72·6	71·6	84·9	85·8	70·2	81·6	73·6	72·8
12	77·3	69·2	69·1	70·6	73·8	79·2	75·8	86·4	72·3	80·4	65·6	72·5
13	81·9	72·9	74·8	77·4	72·2	79·8	87·0	81·4	78·1	71·9	75·3	65·2
14	67·4	70·9	69·8	70·8	81·3	78·8	80·0	*76·9*	77·1	81·8	71·4	70·4
15	67·6	73·4	63·6	72·6	66·7	74·6	84·1	83·9	85·9	70·2	71·9	73·9
16	72·6	70·6	64·1	79·3	75·8	84·6	84·5	77·8	79·1	72·0	*65·3*	70·7
17	72·1	74·9	67·9	75·2	70·0	82·3	80·8	86·4	74·0	79·2	69·7	80·1
18	80·6	73·0	67·8	70·3	72·4	74·3	84·3	88·6	74·8	81·3	84·6	78·6
19	71·5	70·2	78·7	69·0	69·1	78·1	84·5	84·0	81·4	82·9	81·9	70·3
20	70·2	71·6	69·2	79·1	68·9	80·4	85·2	87·0	81·2	77·3	83·6	74·8
21	73·1	73·6	77·4	70·6	76·3	83·0	84·1	85·1	76·2	78·8	72·5	73·8
22	77·9	68·6	67·3	71·4	71·8	78·7	83·6	85·8	78·4	75·0	69·8	76·4
23	79·3	68·1	68·6	71·7	74·4	84·1	85·2	89·5	81·7	79·1	84·7	70·9
24	70·7	63·6	66·9	77·9	70·5	*69·9*	85·2	87·6	80·2	75·2	81·6	67·9
25	76·9	68·9	66·9	75·8	75·7	75·6	*75·2*	80·1	75·4	76·4	74·3	62·3
26	71·2	73·6	66·4	78·8	85·8	85·2	86·4	81·3	83·1	72·5	68·8	69·8
27	81·2	71·0	67·2	70·3	81·7	80·7	86·9	80·9	76·8	77·2	67·1	68·7
28	78·6	66·9	69·1	75·7	74·9	81·7	85·3	85·2	72·5	71·6	71·3	63·2
29	77·9	66·4	68·3	73·1	80·7	85·8	82·9	82·9	81·0	*68·1*	72·1	62·2
30	76·4		74·1	73·2	83·4	81·7	81·4	86·1	82·0	71·4	76·6	*61·8*
31	70·2		64·1		82·3		80·2	84·0		71·4		65·2
Mean	74·5	71·5	68·4	74·6	74·1	79·8	83·5	83·4	78·7	76·2	73·6	70·8
						Year	75·8					

The initial 2 or 3 of the readings is omitted, i.e. 275·0 degrees is printed 75·0.

* From January to July the minimum "on the grass" refers to the interval from 18h. on the previous day to 7h. on the day to which it is entered. From August 1944 onwards the period ends at 6h.

Add 0·16° to obtain temperature in degrees Kelvin where $T(°K.) = t(°C.) + 273·16$.

ELECTRICAL OBSERVATIONS, UNDERGROUND LABORATORY, WILSON METHOD

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

F = Potential gradient, unit 1 v./cm. $\lambda+$ = Conductivity due to positive ions, unit 10^{-18} ohm.$^{-1}$ cm.$^{-1}$
i = Air-earth current, unit 10^{-18} amp.cm.$^{-2}$

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	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i
1	...	...	...	2·16	23	50	...	...	...	...	...	...	...	...	...	1·03	63	65
2	...	...	...	...	...	...	2·38	34	80	...	...	...	...	...	...	1·18	47	56
3	3·51	22	77	2·20	21	45	2·82	35	100	3·22	43	138	1·32	65	87	...	...	...
4	2·66	18	49	...	...	...	...	...	...	3·22	32	103	...	...	...	...	...	...
5	5·30	13	71	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	4·36	18	80	...	...	...	...	...	...	2·66	19	50	...	...	...	1·45	29	42
7	5·88	15	86	...	...	...	3·67	27	100	...	...	...	...	...	...	...	...	...
8	...	...	...	2·91	34	101	1·85	71	131	...	...	...	1·56	33	51	...	...	...
9	...	...	...	...	...	...	2·50	33	82	...	...	...	1·60	41	66	...	...	...
10	5·85	19	112	3·07	29	88	...	...	...	...	...	...	1·80	54	97	...	...	...
11	...	...	...	...	...	...	...	...	...	1·53	36	60	1·57	58	91	...	...	...
12	2·69	14	37	...	...	...	...	...	...	...	...	...	1·69	61	104	...	...	...
13	...	...	...	...	...	...	...	...	...	2·24	34	76	...	...	...	...	...	...
14	4·57	17	75	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	2·73	31	84	...	...	...	...	...	...	...	...	...	1·25	43	53
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·29	41	53
17	5·13	13	68	6·04	–	–	3·68	21	76	3·21	31	100	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	1·97	27	54	1·94	–	–	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	2·66	33	88	3·21	60	191
20	7·26	6	47	...	...	...	...	...	...	...	...	...	...	...	...	2·29	55	127
21	3·87	22	85	3·08	31	96	...	...	...	2·30	25	56	...	...	...	...	...	...
22	...	...	...	1·95	24	46	2·89	37	107	...	...	...	1·04	–	–	3·30	46	151
23	...	...	...	...	...	...	2·65	31	84	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	2·63	40	105	1·66	52	87	0·87	34	30	...	...	...
25	3·83	22	83	4·12	21	88	...	...	...	1·42	42	60	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	2·13	51	109	1·78	45	80	...	...	...
27	...	...	...	...	...	...	3·01	34	102	...	...	...	...	...	...	...	...	...
28	3·29	23	75	...	...	...	2·28	39	89	2·35	43	100	...	...	...	...	...	...
29	...	...	...				...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...				4·23	40	169				2·32	36	83	2·56	53	136
31	3·93	22	85				...	...	...				...	...	...			
Mean	4·44	17	74	3·14	27	75	2·88	37	102	2·33	36	83	1·68	46	78	1·95	49	97
No. of days used	14	14	14	9	8	8	12	12	12	12	12	12	12	10	10	9	9	9

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i
1	...	...	...	4·08	–	–	...	...	...	...	...	...	...	...	...	3·75	32	119
2	...	...	...	...	...	...	...	...	...	2·12	31	67	3·64	20	74	...	...	...
3	...	...	...	3·96	36	145	...	...	...	2·34	42	98	...	...	...	...	...	...
4	1·28	42	54	2·08	35	72	...	...	...	...	...	...	...	...	...	2·67	17	45
5	...	...	...	...	...	...	...	...	...	4·81	22	107	...	...	...	...	...	...
6	1·18	93	109	...	...	...	...	...	...	4·31	44	191	3·61	23	82	...	...	...
7	1·84	56	103	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	2·12	30	64	...	...	...	...	...	...	3·36	–	–
9	...	...	...	...	...	...	...	...	...	...	...	...	4·07	26	107	...	...	...
10	1·67	43	72	1·95	58	114	...	...	...	2·34	31	73	5·99	15	88	...	...	...
11	...	...	...	1·20	66	80	3·49	33	115	...	...	...	...	...	...	8·35	–	–
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	1·49	33	49	2·61	40	103	2·06	47	97	...	...	...	...	...	...	3·87	24	91
15	...	...	...	3·42	18	60	2·12	50	107	...	...	...	...	...	...	4·22	14	61
16	...	...	...	...	...	...	...	...	...	...	...	...	4·48	20	89	...	...	...
17	0·94	29	28	0·84	54	46	...	...	...	...	...	...	...	...	...	...	...	...
18	3·24	30	97	1·14	56	64	2·45	39	97	...	...	...	...	...	...	5·40	15	79
19	3·21	35	113	...	...	...	...	...	...	3·37	21	70	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	3·91	26	103	3·22	22	71	...	...	...
21	2·86	55	157	...	...	...	2·78	31	85	...	...	...	5·59	11	63	...	...	...
22	...	...	...	4·21	–	–	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	2·24	33	75	1·75	49	86	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	4·05	19	78	5·20	18	91	...	...	...
25	...	...	...	...	...	...	2·18	36	78	...	...	...	...	...	...	...	...	...
26	1·12	–	–	...	...	...	1·62	37	60	2·70	–	–	...	...	...	...	...	...
27	2·12	38	80	...	...	...	...	...	...	3·56	21	75	6·11	9	53	...	...	...
28	...	...	...	...	...	...	2·13	31	66	...	...	...	...	...	...	5·16	40	204
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	4·24	25	107	4·80	16	76	...	...	...
31	2·24	36	80	...	...	...				...	...	...				...	...	...
Mean	1·93	45	86	2·52	44	84	2·27	38	85	3·43	28	97	4·67	18	79	4·60	24	100
No. of days used	12	11	11	11	9	9	10	10	10	11	10	10	10	10	10	8	6	6
Year: Mean										2·99	34	87						
No. of days used										130	121	121						

	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	0	...	1	0·2	1	0·2	2	3·6	0	...	1	1·5
2	0	...	1	0·2	0	...	2	6·3	1	0·5	0	...
3	1	1·4	0	...	1	0·1	2	6·2	0	...	0	...
4	0	...	1	1·0	1	1·2	1	0·7	1	1·5	1	0·8
5	0	...	0	...	1	1·9	1	1·1	2	3·0	0	...
6	0	...	1	0·1	0	...	1	0·4	1	0·1	1	1·3
7	0	...	0	...	1	1·3	1	2·5	0	...	1	0·1
8	1	1·1	0	...	1	2·5	1	1·3	0	...	1	1·0
9	2	3·7	2	5·6	1	1·5	1	0·5	0	...	1	2·4
10	1	2·1	2	4·5	1	0·8	1	0·1	0	...	1	0·1
11	1	2·4	1	1·9	1	0·5	1	0·5	0	...	0	...
12	0	...	2	3·3	1	1·2	0	...	0	...	0	...
13	1	0·5	2	3·5	1	0·6	1	0·5	2	3·5	1	0·4
14	0	...	1	0·8	1	0·9	1	1·8	1	2·0	1	1·4
15	0	...	0	...	0	...	1	1·2	0	...	0	...
16	0	...	2	10·8	0	...	2	5·7	2	5·3	0	...
17	1	0·5	2	3·6	0	...	0	...	2	3·8	1	0·1
18	0	...	1	1·1	0	...	0	...	0	...	0	...
19	2	3·3	1	0·3	1	0·8	1	1·3	0	...	0	...
20	1	1·1	0	...	1	0·3	1	0·9	1	0·9	0	...
21	0	...	0	...	1	2·8	0	...	1	2·2	0	...
22	1	2·1	1	0·2	0	...	0	...	0	...	0	...
23	2	5·0	0	...	1	0·3	0	...	0	...	1	1·3
24	2	4·0	1	0·1	0	...	0	...	0	...	0	...
25	1	1·6	0	...	0	...	0	...	0	...	1	0·2
26	1	1·9	1	1·0	0	...	0	...	0	...	2	4·2
27	0	...	1	0·6	1	0·1	1	0·2	0	...	1	2·9
28	0	...	1	1·9	0	...	0	...	0	...	0	...
29	0	...	0	...	2	4·6	0	...	1	1·0	1	0·1
30	0	...			1	1·0	0	...	0	...	0	...
31	0	...			0	...			1	0·3		
Total	–	30·7	–	40·7	–	22·6	–	34·8	–	24·1	–	17·8
No. of days used	–	31	–	29	–	31	–	30	–	31	–	30
Mean	–	1·0	–	1·4	–	0·7	–	1·2	–	0·8	–	0·6

	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	1	0·7	0	...	0	...	1	1·9	0	...	0	...
2	1	0·1	0	...	2	5·5	0	...	0	...	1	0·6
3	2	4·2	0	...	1	0·4	1	0·4	1	0·8	1	1·3
4	0	...	1	1·7	1	1·8	2	4·5	0	...	1	0·1
5	0	...	1	0·2	0	...	1	2·0	2	4·3	0	...
6	1	0·7	1	0·7	0	...	0	...	1	0·9	2	3·0
7	1	2·4	0	...	2	10·5	0	...	1	0·6	2	3·0
8	1	0·7	1	1·2	1	1·7	0	...	2	3·1	1	1·3
9	1	0·7	0	...	0	...	1	0·2	0	...	0	...
10	1	1·3	0	...	0	...	0	...	0	...	2	5·6
11	0	...	0	...	0	...	1	2·7	1	0·8	1	0·4
12	1	0·2	0	...	0	...	2	3·3	1	2·4	1	2·5
13	1	0·9	0	...	0	...	1	2·1	1	2·1	0	...
14	0	...	0	...	1	0·1	1	0·3	1	1·2	1	0·5
15	1	0·1	0	...	0	...	1	0·2	1	1·7	1	0·1
16	0	...	1	0·2	0	...	2	3·0	0	...	1	1·5
17	0	...	0	...	0	...	2	4·7	2	11·9	2	8·2
18	0	...	0	...	1	0·1	1	1·6	1	0·4	1	0·8
19	0	...	1	1·0	1	0·1	0	...	1	0·1	0	...
20	0	...	2	3·5	0	...	2	3·7	1	1·4	0	...
21	1	0·6	2	5·5	0	...	1	0·3	1	0·2	1	0·1
22	2	3·5	1	1·9	1	0·2	0	...	2	3·4	1	2·4
23	0	...	1	0·3	0	...	1	2·3	2	3·1	0	...
24	0	...	2	3·3	2	8·8	2	5·3	1	0·1	1	0·5
25	1	0·1	0	...	1	0·2	1	0·1	1	1·5	1	2·3
26	1	0·7	0	...	1	0·2	1	0·8	1	0·2	1	1·0
27	1	0·1	0	...	1	0·3	1	0·7	1	0·8	0	...
28	0	...	1	1·3	0	...	1	0·1	1	2·6	1	0·2
29	1	0·8	0	...	0	...	2	3·2	0	...	0	...
30	1	0·9	0	...	1	2·3	1	0·3	0	...	1	0·8
31	0	...	1	1·9			1	0·8			0	...
Total	–	18·7	–	22·7	–	32·2	–	44·5	–	43·6	–	36·2
No. of days used	–	31	–	31	–	30	–	31	–	30	–	31
Mean	–	0·6	–	0·7	–	1·1	–	1·4	–	1·5	–	1·2

Annual values: Character 0 1 2
No. of days used 157 165 44

Duration: Total 368·6 hr.
No. of days 366
Mean 1·01 hr.

POTENTIAL GRADIENT (reduced to level surface, Paddock site)
Kelvin electrograph standardized by Wilson readings, underground laboratory
Mean values for periods of sixty minutes between exact hours, G.M.T.

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	JANUARY, factor 4·50				FEBRUARY, factor 4·48				MARCH, factor 4·44			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	volts per metre											
1	260	340	260	520	230	410	255	255	305	355	380	890
2	260	445	550	445	125	205	295	320	150	445	240	650
3	145	340	340	−730	115	270	240	395	315	485	290	380
4	235	680	300	560	25	−180	215	295	305	495	280	420
5	340	795	650	575	295	650	370	320	125	290	355	510
6	250	365	470	470	255	370	355	370	230	620	570	420
7	365	415	615	550	125	215	140	395	470	25	380	635
8	350	455	275	340	180	355	305	385	240	100	230	470
9	115	210	285	0	270	445	215	−510	255	255	230	470
10	−65	510	680	770	−435	215	270	125	330	370	305	240
11	365	405	390	760	100	190	305	240	180	370	205	100
12	640	405	300	220	140	355	125	−15	165	−50	190	230
13	115	145	−10	145	25	50	190	410	50	−125	305	430
14	350	730	455	380	230	330	−65	410	240	485	405	50
15	940	1580	1345	1045	140	435	280	470	140	685	280	355
16	925	665	1095	405	255	−295	−155	125	305	395	405	445
17	1630	860	470	145	25	380	590	625	265	455	355	445
18	65	65	260	340	320	690	510	140	445	455	395	495
19	415	520	455	25	305	205	485	190	150	65	190	395
20	195	600	720	575	355	345	270	510	255	545	115	115
21	285	585	430	445	345	395	470	345	150	−150	230	305
22	115	130	−25	25	190	420	205	560	420	205	255	495
23	−285	145	390	250	345	155	230	295	230	395	255	315
24	220	820	−130	300	435	750	460	380	240	430	280	290
25	185	145	390	350	650	460	410	345	280	430	290	355
26	235	550	220	195	355	295	330	535	255	535	290	430
27	155	260	315	720	115	305	305	155	150	255	300	195
28	195	430	365	560	410	485	445	65	115	275	265	290
29	170	285	470	510	155	535	345	815	265	220	10	−125
30	340	550	390	405					195	345	405	460
31	195	405	455	455					150	175	220	335
(a)	347	479	476	416	233	367	319	351	238	363	287	387
(b)	313	479	425	379	210	326	289	309	238	317	287	371
Mean	(a) 429		(b) 399		(a) 317		(b) 283		(a) 319		(b) 303	

	APRIL, factor 4·36				MAY, factor 4·31				JUNE, factor 4·17			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	volts per metre											
1	335	360	210	185	230	335	195	160	150	200	100	150
2	−10	−25	380	600	185	195	45	115	65	185	100	150
3	−255	150	275	−310	125	195	105	150	135	225	75	200
4	185	210	345	380	230	300	45	255	150	185	85	0
5	195	300	220	210	220	210	255	−150	185	265	150	200
6	160	185	325	160	210	230	195	345	−185	225	165	75
7	70	70	0	70	290	380	220	160	100	200	150	200
8	−25	115	160	370	175	265	170	120	125	225	75	235
9	370	255	125	325	145	540	170	210	165	235	315	335
10	265	370	210	395	170	415	185	305	165	175	135	290
11	255	325	175	415	135	355	170	185	275	265	135	250
12	300	485	195	325	220	280	160	145	235	200	165	200
13	140	415	220	335	160	210	100	−85	235	10	175	200
14	230	265	210	160	0	10	210	365	200	225	−250	200
15	245	565	−60	310	280	330	280	295	275	275	150	125
16	−25	125	10	255	145	210	430	345	115	215	125	200
17	140	430	300	415	185	305	Z+	25	35	300	150	185
18	230	210	195	90	135	475	220	295	185	215	150	175
19	115	360	275	150	345	305	235	170	100	150	290	165
20	60	360	195	415	245	525	120	25	175	365	250	115
21	300	415	265	185	75	170	195	195	200	335	300	200
22	150	335	230	230	220	320	120	110	165	290	300	335
23	220	360	185	265	110	245	145	185	25	315	215	215
24	300	140	185	220	245	305	110	210	315	235	135	135
25	160	300	150	195	270	245	75	185	100	115	115	165
26	90	345	220	140	75	120	185	220	100	−25	350	225
27	175	440	175	60	120	185	145	135	75	Z+	200	335
28	195	195	210	140	235	210	135	110	215	175	165	200
29	90	195	175	255	135	280	110	85	125	265	250	335
30	185	230	185	160	195	405	245	120	235	225	135	265
31					185	235	220	195				
(a)	198	293	207	256	184	284	173	187	159	225	176	202
(b)	161	233	198	237	184	283	173	172	151	216	161	197
Mean	(a) 239		(b) 220		(a) 207		(b) 203		(a) 191		(b) 181	

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, Paddock site)

Kelvin electrograph standardized by Wilson readings, underground laboratory
Mean values for periods of sixty minutes between exact hours, G.M.T.

	JULY, factor 4·20				AUGUST, factor 4·22				SEPTEMBER, factor 4·17			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	volts per metre											
1	90	190	140	225	140	365	390	255	150	325	200	325
2	65	150	115	250	175	455	455	315	65	-365	Z-	125
3	225	-175	115	365	125	365	390	365	115	350	175	-
4	175	275	125	225	280	265	255	215	-	-	-235	425
5	340	225	190	275	150	65	165	215	185	250	250	350
6	275	240	115	430	175	125	115	125	235	400	200	275
7	100	340	215	215	190	355	125	150	-215	175	165	425
8	215	250	150	75	125	330	-50	-25	285	300	200	400
9	225	190	175	300	150	380	175	200	235	400	200	200
10	125	250	150	150	230	175	175	175	185	435	225	135
11	75	125	140	250	200	340	140	215	325	415	315	425
12	200	200	125	40	280	255	140	150	285	415	400	300
13	115	200	-150	275	115	200	100	200	250	325	450	335
14	125	365	150	200	125	415	255	390	165	165	215	300
15	175	150	150	150	315	365	340	280	185	335	225	335
16	165	190	150	190	125	380	100	200	185	325	200	350
17	150	380	100	240	190	175	100	255	250	500	175	125
18	240	415	290	265	100	215	115	240	200	265	235	515
19	200	405	355	275	140	240	-75	190	125	275	65	325
20	215	330	455	265	65	-545	90	125	315	275	250	300
21	215	390	265	115	90	355	100	-125	175	300	265	185
22	25	150	300	275	90	380	455	365	175	275	250	250
23	175	225	150	125	115	305	230	240	135	285	150	425
24	100	330	100	125	140	505	Z±	-125	115	-500	135	215
25	125	190	125	290	330	505	200	240	200	365	235	175
26	90	215	125	225	255	495	165	175	65	365	175	525
27	140	190	200	215	240	330	190	215	275	365	215	275
28	190	275	125	215	165	230	150	175	275	475	250	435
29	175	100	225	215	125	290	215	175	300	100	185	100
30	165	190	150	200	125	175	165	305	75	325	150	-75
31	100	240	215	250	175	255	125	340				
(a)	161	245	179	223	169	310	201	232	197	325	220	306
(b)	161	232	169	223	170	275	183	211	190	294	221	294
Mean	(a) 202		(b) 196		(a) 228		(b) 210		(a) 262		(b) 249	

	OCTOBER, factor 4·20				NOVEMBER, factor 4·17				DECEMBER, factor 4·22			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	volts per metre											
1	-40	300	200	300	115	250	325	465	445	380	365	305
2	250	505	240	505	350	350	365	535	150	605	305	660
3	125	355	165	250	375	125	125	375	305	140	215	200
4	165	-75	250	-75	400	550	385	235	165	305	305	570
5	-65	540	440	265	115	125	-175	525	240	430	365	660
6	115	490	430	340	625	775	365	135	520	630	415	415
7	125	415	330	365	150	385	315	535	230	605	-175	875
8	165	655	275	515	365	765	-500	525	495	Z-	355	480
9	200	515	655	645	350	550	400	415	315	520	580	505
10	355	530	250	405	550	815	615	385	265	695	-860	455
11	165	250	-250	290	350	50	515	565	255	885	770	405
12	100	240	-330	440	565	585	275	400	-230	50	480	415
13	505	755	365	355	-65	685	350	350	355	760	1175	1065
14	115	355	455	630	325	685	415	715	900	230	380	280
15	505	430	405	65	185	785	385	300	165	580	380	505
16	75	-275	Z-	455	300	500	435	865	330	340	480	340
17	290	330	-770	455	-600	-75	65	175	-215	100	315	415
18	125	340	300	340	65	125	485	235	230	Z±	495	605
19	150	250	355	645	215	135	150	150	645	620	520	1010
20	300	150	315	355	115	435	325	475	710	1240	985	1025
21	125	265	355	540	275	700	485	685	445	405	505	710
22	150	225	340	315	25	415	350	0	-140	255	630	860
23	225	240	290	405	-225	285	535	435	580	290	710	685
24	215	-215	380	430	200	265	485	715	595	530	860	50
25	190	115	680	215	250	750	500	275	330	1115	230	910
26	780	780	265	300	325	735	375	835	925	935	850	1035
27	115	240	315	555	350	435	600	615	Z+	1165	1010	875
28	505	440	490	845	25	50	315	415	430	985	605	65
29	290	780	100	670	465	800	485	550	570	1415	1340	1405
30	265	330	455	90	450	525	525	425	1215	1115	265	430
31	165	250	125	65					305	415	595	605
(a)	236	395	342	402	292	470	391	444	449	612	568	607
(b)	223	359	263	384	233	452	343	444	386	592	485	602
Mean	(a) 344		(b) 307		(a) 399		(b) 368		(a) 559		(b) 516	

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)	239	364	295	334
(b)	218	338	266	319
	(a) 308		(b) 286	

POTENTIAL GRADIENT (reduced to level surface): DIURNAL INEQUALITIES

The departures from the mean of the day are adjusted for non-cyclic change†

184 KEW OBSERVATORY — Selected quiet days — 1944

	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 †	Mean
	volts per metre																									
Jan.	-86	-133	*-144*	*-144*	-123	-84	-39	+59	*+94*	+90	+82	+88	+6	+22	+20	+44	+24	+51	+81	+68	+46	+13	-4	-30	+3	434
Feb.	-45	-64	-61	*-74*	-39	-17	+27	+71	+101	*+121*	+58	+26	-28	-36	-34	-35	-28	-6	+30	+43	+50	-19	-27	-14	+114	346
Mar.	-29	-70	*-101*	-78	-46	-42	+28	+93	+97	*+105*	+31	-43	-39	-35	-25	-29	-18	+19	+33	+28	+86	+62	-15	-11	-17	329
Apr.	-16	-23	-29	*-44*	-9	+25	+68	*+104*	+80	+30	+16	-22	-19	-7	-6	-18	-12	-24	-19	-12	+3	-13	-23	-30	+6	215
May	-23	-35	-32	-28	+4	+42	+85	+111	*+114*	+68	+26	+2	-16	-22	-25	-26	-28	-28	-34	-33	-17	-28	-34	*-43*	-7	192
June	-31	-34	*-36*	*-36*	-7	+3	+26	*+40*	+36	+37	+35	-5	-4	-5	-14	-7	+1	+10	+21	+21	+6	-14	-21	-19	-7	191
July	+5	-23	-52	*-60*	-36	+6	+52	*+91*	+81	+46	+29	-12	-26	-18	-21	-20	-21	-22	-23	-13	+15	+18	-7	+14	-12	202
Aug.	-35	-27	-17	-5	+25	+48	+93	*+142*	+108	+66	+23	-25	-43	-51	-53	*-65*	-59	-49	-31	-3	+5	-3	-7	-39	-14	207
Sept.	-37	-40	-50	-60	-43	-6	+57	*+114*	+87	+55	-2	-34	*-71*	-67	-38	-45	-20	+4	+28	+80	+39	+44	+12	-8	-3	273
Oct.	-105	-102	*-111*	-70	-75	-66	+48	+82	+44	+54	+13	-34	-57	-59	-40	-13	-5	+57	+112	*+134*	+132	+78	+35	-54	···	360
Nov.	-75	-106	-90	*-123*	-122	-82	+12	+53	+79	*+108*	+50	+36	0	-21	+1	+17	+48	+82	+96	+44	+15	+12	+6	-38	···	452
Dec.	-36	-92	-115	*-117*	-50	-54	-33	+51	+75	+62	-11	-46	+2	+1	+15	-4	-22	+11	+65	+103	*+128*	+87	-2	-17	+18	524
Year	-43	-62	*-70*	*-70*	-43	-19	+35	*+84*	+83	+70	+29	-6	-25	-25	-18	-17	-12	+9	+30	+38	+42	+20	-7	-24	···	310
Winter	-61	-99	-103	*-115*	-83	-59	-8	+59	+87	*+95*	+45	+26	-5	-8	+1	+5	+5	+35	+68	+65	+60	+23	-7	-25	···	439
Equinox	-47	-59	*-73*	-63	-43	-22	+50	*+98*	+77	+61	+15	-33	-47	-42	-27	-26	-14	+14	+39	+57	+65	+43	+2	-26	···	294
Summer	-21	-30	*-34*	-32	-3	+25	+64	*+96*	+85	+54	+28	-10	-22	-24	-28	-29	-27	-22	-17	-7	+2	-7	-17	-22	···	198

Winter: January, February, November, December
Equinox: March, April, September, October
Summer: May to August

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

AIR POLLUTION: HOURLY MEANS FOR EACH MONTH

185 KEW OBSERVATORY — Complete days only — 1944

	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	Mean	No. of days used
	milligrams per cubic metre																									
Jan.	0·09	0·09	0·09	0·07	*0·07*	0·09	0·15	0·21	0·21	0·23	0·22	0·25	0·20	0·23	0·23	0·24	0·25	*0·26*	0·23	0·21	0·17	0·14	0·11	0·10	0·17	31
Feb.	0·05	0·05	*0·04*	0·05	0·05	0·09	0·15	0·20	0·19	0·19	0·15	0·12	0·11	0·12	0·13	0·15	0·19	*0·22*	0·21	0·19	0·15	0·11	0·07	0·07	0·11	29
Mar.	0·12	0·11	0·10	0·10	0·12	0·14	0·23	*0·29*	0·23	0·20	0·15	0·12	0·09	*0·09*	0·10	0·12	0·14	0·21	0·23	0·27	0·26	0·22	0·18	0·15	0·17	31
Apr.	0·06	0·04	0·05	0·06	0·06	0·10	*0·16*	0·16	0·13	0·10	0·08	0·06	0·05	0·05	0·06	0·06	0·08	0·10	0·12	0·12	0·10	0·08	0·06	*0·04*	0·08	30
May	0·05	0·05	0·05	0·05	0·08	0·13	*0·16*	0·14	0·07	0·05	0·03	0·03	0·03	*0·02*	0·02	0·03	0·03	0·04	0·05	0·05	0·05	0·05	0·05	0·05	0·06	31
June	0·01	0·01	0·02	*0·03*	0·02	0·03	0·01	0·01	0·00	0·00	0·00	0·00	0·00	0·00	0·01	0·01	0·01	0·02	0·01	0·01	0·00	0·01	0·01	0·01	*0·01*	30
July	0·02	0·02	0·02	0·03	0·05	*0·07*	*0·07*	0·05	0·03	0·04	0·03	0·02	0·02	*0·01*	0·02	0·01	0·01	0·01	0·01	0·02	0·02	0·02	0·02	0·03	0·02	31
Aug.	0·04	0·05	0·03	0·06	0·08	0·11	*0·13*	*0·13*	0·08	0·05	0·05	0·03	0·03	0·03	0·03	0·03	0·03	0·02	0·02	*0·01*	0·02	0·02	0·03	0·03	0·05	31
Sept.	0·10	0·11	0·11	0·12	0·15	0·17	*0·20*	*0·20*	0·19	0·15	0·10	0·07	0·06	*0·05*	0·06	0·09	0·11	0·14	0·16	0·15	0·14	0·13	0·11	0·10	0·12	30
Oct.	0·10	0·08	*0·07*	0·08	0·08	0·11	0·17	0·18	0·15	0·15	0·15	0·16	0·15	0·18	0·16	0·18	0·21	0·25	*0·27*	0·23	0·21	0·17	0·13	0·11	0·15	31
Nov.	0·08	0·06	0·06	*0·05*	0·07	0·11	0·18	0·24	0·23	0·21	0·18	0·15	0·14	0·18	0·20	0·25	0·31	*0·33*	0·31	0·26	0·21	0·18	0·15	0·09	0·18	30
Dec.	0·16	0·16	*0·15*	*0·15*	*0·15*	0·15	0·24	0·37	0·40	0·44	0·45	0·42	0·36	0·37	0·39	0·42	0·45	0·46	*0·47*	0·41	0·37	0·29	0·21	0·18	*0·32*	31
Year	0·07	0·07	*0·07*	0·07	0·08	0·11	0·15	*0·18*	0·16	0·15	0·13	0·12	0·10	0·11	0·12	0·13	0·15	0·17	0·17	0·16	0·14	0·12	0·09	0·08	0·12	366
Winter	0·09	0·09	0·09	*0·08*	0·09	0·11	0·18	0·25	0·26	0·27	0·25	0·23	0·20	0·23	0·24	0·27	0·30	*0·32*	0·31	0·27	0·23	0·18	0·13	0·11	0·19	121
Spring	0·09	0·07	0·07	0·08	0·09	0·12	0·19	*0·23*	0·18	0·15	0·11	0·09	0·07	*0·07*	0·08	0·09	0·11	0·15	0·17	0·19	0·18	0·15	0·12	0·09	0·13	61
Autumn	0·10	0·09	*0·09*	0·10	0·11	0·14	0·19	0·19	0·17	0·15	0·13	0·11	0·11	0·11	0·11	0·13	0·16	0·18	*0·21*	0·19	0·17	0·15	0·12	0·11	0·13	61
Summer	0·03	0·03	0·03	0·04	0·06	0·09	*0·09*	0·08	0·05	0·03	0·03	0·02	0·02	*0·01*	0·02	0·02	0·02	0·02	0·02	0·02	0·02	0·03	0·03	0·03	0·04	123