N.Z. DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

APIA OBSERVATORY,

APIA, WESTERN SAMOA

ANNUAL REPORT

FOR

1942

Issued under the authority of the Hon. K. J. HOLYOAKE
Minister of Scientific and Industrial Research

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APIA OBSERVATORY

Annual Report for the Year 1942

Contents

Climatological Summary 1942

Resident Staff, 1942

Acting Director	H.B. Sapsford B.Sc.
Professional Assistants	J.D. Coulter M.Sc. J. Finkelstein M.Sc.
R.N.Z.A.F. Personnel at the Observatory in connection with war work	F.T. Gilman A.C.I. (from 24.10.42); G. Barber A.C.I. (from 9.11.42); L.H.E. Mollring L.A.C. (from 9.11.42)
Locally recruited staff	Miss H.M. Sasse; Siaosi Sumeo; Fa'asi'u; Pele Feagai (until 17th October); Pene Wells (until 31st March); Popo Tanielu (until 22nd October); Sini (until 11th June); Malaefou (until 31st July); Siaki Fati (from 1st April); Taulima (from 16th June); Ulutui (from 19th June until 4th August); Tauemua (from 30th June until 11th October); Vaemaga (from 25th August until 30th September); Tanielu Ah Sui (from 1st October); Tali (from 13th October); Fa'asalafa (from 19th October) Pasese (from 9th December)

Co-ordinates of Transit Pier

Latitude	13° 48' 26"	South
Longitude	171° 46' 30"	West or 11h 27m 6s west of Greenwich
Altitude	Two metres above mean sea level	

Standards of Time

Greenwich Mean Time is used in terrestrial magnetism and seismology (12h = Greenwich midday). Zone Time (165° west of Greenwich) is used in meteorology.

Apia Observatory, Samoa

Report of the Director for the year 1942

The work in atmospheric electricity was discontinued at the end of 1941 otherwise the geophysical programme of work has remained unchanged. The subjects in which observations have been made are terrestrial magnetism, seismology, meteorology and tides. Details of instruments and other relevant information will be found in the preliminary remarks which introduce the respective sections of the report.

Staff

Mr. H.B. Sapsford, who was Acting Director, controlled the Observatory throughout the year. There were no changes in the professional staff. Three airmen, F.T. Gillman, G. Barber and L.H.E. Mollring, arrived towards the end of the year to take over some of the meteorological duties occasioned by war conditions.

There were many disturbing changes among the Samoan staff.

Time Service

An accurate time service was maintained with the Strasser and Rohde clock No. 381 which was controlled by daily wireless time signals. The time marks for the magnetographs and the seismographs were provided by the Synchronome clock No. C 603. The control of this clock was such that generally it had an error of less than half a second.

Tides

The automatic recording of the tides by means of the portable tide gauge No. 11664 was continued. Hourly scalings of heights of the tide together with times and heights of high and low water were forwarded to the United States Coast & Geodetic Survey in Washington.

Terrestrial Magnetism 1942

This branch of the work consists of the continuous photographic recording of horizontal intensity (H), declination (D) and vertical intensity(Z), together with the usual observational programme for the control and reduction of the continuous records. The results are presented in this report in the form of tables.

Eschenhagen variometers record horizontal intensity and declination while vertical intensity is recorded by a Godhavn balance. These instruments are still in the concrete building, the Gauss Haus, in which they have been for many years. The H and D variometers are in the eastern room and the Z instrument is in the western room. The lenses of the H and D variometers are at distances of 128 and 174 centimetres respectively from the recording drum and the lens of the Godhavn balance is distant 162 centimetres from its drum.

The photographic papers are changed once a day at approximately 1900 hours G.M.T. and the temperature inside the variometer house is read at the same time. It has been found that the diurnal variation of temperature in the Gauss Haus is negligible and the variation throughout the year is also small. The highest temperature recorded during 1942 was 28.5°C in January and February and 25.1°C in August and December, was the lowest.

In 1937 the temperature coefficient of the H variometer was reduced to 0.25γ/°C. At the same time the Godhavn balance was adjusted to give the maximum compensation for temperature, the final temperature coefficient being 1.8γ/°C. With these coefficients the variation of temperature in the Gauss Haus is not considered to be large enough to warrant the application of temperature corrections to the ordinates measured from the magnetograms.

The sensitivity of the instruments was such that the H variometer had a scale value of about 2½ gammas per millimetre, the Godhavn balance 1¼ gammas per millimetre and the D variometer 1 minute of arc per millimetre. Accurate determinations of the scale values of the H and Z variometers were made about once a week and the values adopted are given at the end of this description. The scale values for the H variometer and for the Godhavn balance were obtained by the electrical method using Helmholtz Gaugain coils. That for the D variometer was calculated from the geometrical constants and the torsion of the suspension.

Regular absolute observations were made of horizontal intensity, declination and inclination (I), the number of observations being 35 of H, 38 of D and 49 of I. The observations of H and D were made with C.I.W magnetometer No. 9 which is on loan from the Department of Terrestrial Magnetism, Carnegie Institute, Washington. Inclination measurements were made with Schulze earth inductor No. 2.

The method of observation with C.I.W. Magnetometer

No. 9 is the same as that described by D.L. Hazard in "Directions for Magnetic Measurements" (United States Department of Commerce, Serial Number 166). The measurements have been reduced to International Magnetic Standard by applying a correction of -28γ(-0.00079H) to Horizontal force and -0.2 of a minute of arc to declination. These corrections which are based on comparisons with the standard C.I.W. magnetometer No. 3 at Washington, D.C., Nov. 6-10, 1934, have been applied since January 1937. The instrument was re-standardized in June 1937 by Mr. Parkinson of the Carnegie Institute and Mr. Dyer of the Observatory staff. When the results of this intercomparison are available some amendments may be necessary to the values of H, D and Z in this report. The measurements of inclination have been reduced by applying a correction of -0.2 of a minute (reckoning southerly inclination negative). This correction was determined by the Department of Terrestrial Magnetism after comparison of Schulze earth inductor No. 2 with C.I.W. inductor No. 48 at Cheltenham in August 1939.

The base-line values of the records, which are computed from the absolute observations, are plotted on a graph. The adopted base-line values are read from a smooth curve drawn through the computed values. These are given at the end of this introduction.

The practice of measuring the ordinates on the magnetograms of H and D from the centre of the trace to the nearer edge of the base line, and of Z from the centre of the trace to the further edge of the base line, has been continued.

The hourly values of horizontal intensity and vertical intensity have been obtained by scaling the ordinates in millimetres and converting to gammas. The values of declination have been scaled in millimetres and converted to minutes of arc. The results have been presented in the form of departures of the hourly means from the mean value of the day. The daily mean is given under the column headed "Mean". The departures are based on mean values of the elements over periods of one hour between exact hours of Greenwich Mean Time. The column heading specifies the commencement of the hourly period: Thus column 0 refers to the period 0 to 1 hour G.M.T. and so on.

In both horizontal and vertical intensity the tabular values are in gammas while in declination the values are in tenths of a minute of arc. The values of vertical intensity shown in the tables are numerical values of the field strength, the sense of the vertical force

being given by the fact that in Samoa the south pole of the magnet dips.

International Quiet Days are indicated by a plus sign, thus:- +

The values of the diurnal variations of the magnetic elements have not been corrected for non-cyclic change. Values of the correction (N) have been computed and are given at the foot of the appropriate tables. The non-cyclic change N is the difference between the first and second midnights ($\bar{a}_{24} - \bar{a}_o$) of the mean day. Since hourly means are used and not instantaneous values, the midnight values have been estimated by taking the means of the two hourly periods centered at the midnights.

In the diurnal variation tables of declination and of the component Y it will be noticed.that significant maxima usually occur within an hour or two of 03 hours and 17 hours G.M.T. The corresponding minima occur within an hour or two of 12 hours and 22 hours G.M.T. At the foot of these tables ranges A-a, B-a, A-b and B-b have been given where A and B refer to the first and second maxima respectively and a and b refer to the first and second minima respectively. There is occasionally a small fluctuation about 06 hours G.M.T. which introduces a third minimum and a corresponding maximum but ranges based on these are not given.

Tabulations of the three-hour-range index "K" have been made and are given in this report. The method of determining "K" is the same as that described in the "Journal of Terrestrial Magnetism and Atmospheric Electricity", Volume 44 (1939), page 411. Only records of H have been considered in estimating "K", as it has been found that at times of magnetic disturbance the range at this station is always greatest in H.

Adopted Scale Values

Horizontal Intensity.

The values of the terms A and B occurring in the scale value equation $dY/dn = A + Bn$ (where n = ordinate in millimetres) which were adopted during 1942 are as follows:

Date	A	B
January	2.23	0.0032
February	2.23	0.0032
March	2.26	0.0032
April	2.26	0.0032

Date	A	B
May	2.27	0.0032
June	2.27	0.0032
July	2.26	0.0032
August	2.23	0.0032
September	2.23	0.0032
October	2.24	0.0034
November	2.24	0.0034
December	2.24	0.0034

Vertical Intensity

The scale value was assumed to be linear, the following values being adopted.

January	1.35
February	1.35
March	1.35
April 1st to 9th	1.35
April 10th to 30th.	1.27
May 1st to 12th	1.27
May 13th to 31st	1.77
June 1st to 24th	1.68
June 24th to 26th	1.35
June 27th to 30th	1.42
July	1.42
August	1.42
September	1.42
October	1.43
November	1.43
December	1.43

Declination

The scale value remained constant and equal to one minute of arc per millimetre.

Adopted Base Line Values

The base line values of the magnetograms may be read from the following list in which the dates are given on which the base line assumes a new value.

Horizontal Intensity

January	1st	34673
February	1st	34673
March	1st	34673, 4th 674, 9th 675, 15th 676, 20th 677, 26th 678, 31st 679.
April	1st	34679, 6th 680, 11th 681, 17th 682, 22nd 683, 28th 684.
May	1st	34684, 2nd 685, 8th 686, 13th 687, 19th 688, 24th 689, 31st 690.

June	1st 34690, 4th 691, 10th 692, 15th 693, 21st 694, 26th 695.
July	1st 34695, 2nd 696, 7th 697, 13th 698, 18th 699, 24th 700, 29th 701:
August	1st 34701, 7th 702, 19th 703, 31st 704.
September	1st 34704, 12th 705, 24th 706.
October	34706
November	34706
December	34705.

Vertical Intensity

January	20587
February	20587
March	1st 20587, 2nd 588, 7th 589, 11th 590, 15th 591, 19th 592, 23rd 593, 27th 594, 31st 595.
April	20595
May	1st 20595, 11th 20598.
June	1st 20602, 25th 586.
July	20586
August	20586
September	20586
October	20585
November	20585
December	1st 20585, 3rd 584, 17th 583.

Declination

10°+ ....E

January	1st 28.8', 6th 28.7', 12th 28.6', 17th 28.5'
February	28.5'
March	28.5'
April	28.5'
May	1st 28.5', 12th 27.6'.
June	27.6'
July	27.6'
August	27.7'
September	27.7'
October	27.7'
November	27.7'
December	27.7'

Mean Values of Magnetic Elements, 1942

All Days

	D		H	X	Y	Z
		East	gamma	gamma	gamma	gamma
January	11°	00.7'	34871	34230	6661	20658
February		01.0'	34868	34227	6663	20655
March		01.2'	34855	34214	6663	20663
April		01.6'	34854	34212	6667	20663
May		01.6'	34869	34227	6669	20664
June		01.7'	34875	34232	6672	20661
July		01.8'	34872	34229	6672	20662
August		02.4'	34868	34224	6677	20659
September		02.6'	34865	34220	6679	20657
October		02.6'	34860	34216	6678	20659
November		02.8'	34864	34220	6680	20659
December		03.3'	34866	34220	6686	20659
Y e a r	11°	01.9'	34866	34223	6672	20660

International Quiet Days

	D		H	X	Y	Z
		East	gamma	gamma	gamma	gamma
January	11°	00.8'	34878	34237	6662	20657
February		01.1'	34875	34234	6666	20655
March		01.5'	34872	34230	6669	20661
April		02.0'	34867	34224	6673	20662
May		01.7'	34882	34239	6673	20662
June		01.7'	34888	34244	6674	20651
July		01.6'	34881	34239	6672	20661
August		02.3'	34875	34232	6678	20658
September		02.6'	34878	34233	6681	20655
October		02.7'	34878	34233	6682	20655
November		02.9'	34876	34232	6684	20657
December		03.4'	34877	34231	6689	20661
Y e a r	11°	02.0'	34877	34234	6675	20658

Diurnal Variation of Horizontal Intensity

International Quiet Days, 1942
Not corrected for non-cyclic change. Unit: One gamma

G.M.T.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
0- 1	+28	+25	+30	+17	+ 6	+19	+15	+17	+16	+15	+23	+20	+19
1- 2	+16	+19	+20	+ 8	0	+12	+ 7	+11	+ 7	+ 7	+17	+12	+11
2- 3	+ 1	+11	+ 6	- 2	- 3	+ 3	0	+ 5	0	- 1	+ 6	- 1	+ 2
3- 4	- 9	+ 1	- 2	- 8	- 7	- 4	- 5	- 9	- 6	- 9	- 5	-12	- 6
4- 5	-10	- 8	-10	-12	- 9	- 9	- 7	-13	- 9	-14	-12	-18	-11
5- 6	-13	-15	-11	-12	- 7	- 9	- 8	-11	-11	-14	-14	-16	- 12
6- 7	-13	-15	-11	-13	- 7	-10	-12	-12	-11	-13	-14	-14	- 12
7- 8	-12	-14	-14	-13	- 7	-10	-12	-12	-11	-13	-13	-13	-12
8- 9	-10	-16	-15	-14	- 7	-10	-11	-11	-11	-13	-13	-12	-12
9-10	-11	-16	-16	-13	- 8	-10	-11	-10	-11	-12	-14	-11	-12
10-11	-12	-16	-14	-11	- 8	-11	- 9	-10	-11	-11	-13	-11	-11
11-12	-13	-14	-14	- 9	- 8	-10	- 8	-10	-13	-10	-10	-10	-11
12-13	-12	-13	-14	- 8	- 7	-10	- 8	-10	-11	- 8	- 9	-10	-10
13-14	-10	-12	-14	- 6	- 7	-10	- 7	- 9	- 9	- 7	-11	- 9	- 9
14-15	- 9	-10	-13	- 4	- 7	- 9	- 5	- 9	-10	- 8	-11	- 8	- 9
15-16	- 8	- 9	-10	- 4	- 7	- 7	- 2	- 7	- 9	- 7	- 9	- 7	- 7
16-17	- 7	- 8	- 8	- 1	- 3	- 4	0	- 6	- 7	- 6	- 8	- 6	- 5
17-18	- 6	- 8	- 5	+ 2	+ 1	0	+ 3	- 1	- 5	- 3	- 7	- 5	- 3
18-19	- 7	- 6	- 3	+ 4	+ 5	+ 5	+ 7	+ 6	0	+ 1	- 4	+ 1	+ 1
19-20	+ 5	+ 1	+ 3	+ 6	+11	+ 9	+ 9	+16	+ 9	+10	+ 4	+10	+ 8
20-21	+14	+13	+14	+13	+17	+14	+11	+21	+19	+21	+14	+21	+16
21-22	+26	+28	+25	+21	+20	+19	+13	+23	+28	+30	+27	+33	+24
22-23	+36	+44	+34	+27	+23	+23	+18	+21	+34	+33	+37	+36	+31
23-24	+38	+46	+40	+29	+21	+22	+21	+17	+33	+32	+38	+33	+31
N	+ 6	+18	+ 8	+13	+11	- 1	+ 3	- 5	+11	+13	+ 8	+ 7	
R	51	62	56	43	32	34	33	36	47	47	52	54	43
No. of days	5	5	5	5	4	3	4	4	4	4	5	5	

Diurnal Variation of Declination
International Quiet Days 1942
Not corrected for non-cyclic change.
Unit: One tenth of a minute of arc

G.M.T.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
0- 1	+21	+22	+11	- 4	-10	-15	-14	- 8	+ 7	+20	+22	+10	+ 5
1- 2	+25	+28	+17	+ 2	0	- 3	- 1	+ 1	+11	+20	+22	+10	+11
2- 3	+22	+27	+14	+ 8	+ 9	+ 7	+ 5	+10	+12	+15	+19	+12	+13
3- 4	+18	+20	+ 7	+12	+12	+ 8	+ 5	+13	+ 9	+ 9	+15	+10	+11
4- 5	+10	+10	+ 4	+12	+11	+ 5	+ 3	+ 9	+ 5	+ 4	+10	+ 8	+ 8
5- 6	+ 6	+ 5	+ 5	+ 7	+ 5	+ 2	+ 1	+ 4	+ 3	+ 5	+10	+ 9	+ 5
6- 7	+ 7	+ 4	+ 8	+ 5	+ 3	0	+ 1	+ 4	+ 4	+ 6	+10	+ 9	+ 5
7- 8	+ 6	+ 4	+ 7	+ 1	0	- 2	0	+ 3	+ 3	+ 5	+ 8	+ 6	+ 3
8- 9	+ 4	+ 3	+ 4	0	- 1	- 3	0	+ 1	+ 1	+ 2	+ 4	+ 4	+ 2
9-10	+ 2	+ 2	0	0	- 1	- 4	- 1	- 1	+ 1	0	+ 1	+ 3	0
10-11	0	- 1	- 2	- 1	- 1	- 4	- 1	- 2	0	- 1	- 1	+ 3	- 1
11-12	- 3	- 2	- 2	- 1	- 1	- 3	- 2	- 1	- 1	- 2	- 2	+ 1	- 2
12-13	- 3	- 3	- 2	- 2	- 1	- 3	- 1	+ 1	0	- 1	- 2	0	- 1
13-14	- 4	- 2	- 2	- 1	- 1	- 2	- 1	+ 2	0	0	- 2	- 1	- 1
14-15	- 3	- 2	- 2	0	+ 1	+ 2	+ 2	+ 3	+ 1	+ 1	0	- 3	0
15-16	- 3	- 3	- 2	+ 1	+ 2	+ 4	+ 4	+ 4	+ 3	+ 1	0	- 4	+ 1
16-17	- 4	- 3	0	+ 2	+ 4	+ 6	+ 8	+ 5	+ 4	+ 1	- 1	- 6	+ 1
17-18	-15	- 7	- 1	+ 2	+ 6	+ 6	+ 9	+ 6	+ 3	- 3	- 7	-11	- 1
18-19	-24	-22	- 7	+ 2	+ 7	+ 9	+11	+11	- 7	-14	-21	-20	- 6
19-20	-27	-31	-17	- 7	+ 1	+ 7	+ 7	+ 3	-15	-23	-32	-25	-13
20-21	-26	-32	-19	-15	- 4	+ 4	+ 1	- 8	-17	-23	-32	-20	-16
21-22	-14	-22	-14	-15	- 9	- 6	-10	-18	-17	-19	-21	- 9	-15
22-23	- 1	- 7	- 7	- 9	-16	- 7	-13	-21	- 9	- 7	- 5	+ 5	- 8
23-24	+10	+ 8	+ 2	- 6	-16	-13	-13	-22	- 1	+ 9	+ 7	+15	- 2
N	- 4	- 1	+ 1	0	- 3	+ 3	+ 6	- 6	- 1	- 1	- 5	+ 7	
A-a	29	31	19	14	13	12	7	15	13	22	24		15
B-a	1	1	2	4	8	13	13	13	5	3	2		3
A-b	52	60	36	27	28	23	19	35	29	43	54	40	29
B-b	24	30	19	17	23	24	25	33	21	24	32		17
No. of days	5	5	5	5	4	3	4	4	4	4	5	5	

Diurnal Variation of X, 1942

International Quiet Days. Unit: One Gamma

Not corrected for non-cyclic change

G.M.T.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
0- 1	+23	+20	+27	+18	+ 8	+22	+18	+19	+15	+11	+19	+18	+18
1- 2	+11	+13	+17	+ 8	0	+13	+ 7	+11	+ 5	+ 3	+13	+10	+ 9
2- 3	- 3	+ 6	+ 3	- 4	- 5	+ 2	- 1	+ 3	- 2	- 4	+ 2	- 3	- 1
3- 4	-13	- 3	- 3	-10	- 9	- 6	- 6	-12	- 7	-11	- 8	-14	- 9
4- 5	-12	-10	-11	-14	-11	-10	- 8	-15	-10	-15	-14	-20	-13
5- 6	-14	-16	-12	-13	- 8	- 9	- 8	-12	-12	-15	-16	-18	-13
6- 7	-14	-16	-13	-14	- 8	-10	-12	-13	-12	-14	-16	-16	-13
7- 8	-13	-15	-15	-13	- 7	-10	-12	-13	-12	-14	-15	-14	-13
8- 9	-11	-17	-16	-14	- 7	- 9	-11	-11	-11	-13	-14	-13	-12
9-10	-11	-16	-16	-13	- 8	- 9	-11	-10	-11	-12	-14	-12	-12
0-11	-12	-16	-14	-11	- 8	-10	- 9	-10	-11	-11	-13	-12	-11
1-12	-12	-14	-14	- 9	- 8	- 9	- 8	-10	-13	-10	-10	-10	-11
12-13	-11	-12	-14	- 8	- 7	- 9	- 8	-10	-11	- 8	- 9	-10	-10
13-14	- 9	-12	-14	- 6	- 7	-10	- 7	- 9	- 9	- 7	-11	- 9	- 9
14-15	- 8	-10	-14	- 4	- 7	- 9	- 5	-10	-10	- 8	-11	- 7	- 9
15-16	- 7	- 8	-10	- 4	- 7	- 8	- 3	- 8	-10	- 7	- 9	- 6	- 7
16-17	- 6	- 7	- 8	- 1	- 4	- 5	- 2	- 7	- 8	- 6	- 8	- 5	- 6
17-18	- 3	- 7	- 5	+ 2	0	- 1	+ 1	- 2	- 6	- 2	- 6	- 3	- 3
18-19	- 2	- 2	- 2	+ 4	+ 4	+ 3	+ 5	+ 4	+ 1	+ 4	0	+ 5	+ 2
19-20	+10	+ 7	+ 6	+ 7	+11	+ 8	+ 8	+17	+12	+15	+10	+15	+11
20-21	+19	+19	+18	+16	+18	+13	+11	+23	+22	+26	+20	+25	+19
21-22	+28	+31	+27	+24	+22	+20	+15	+27	+30	+33	+30	+34	+27
22-23	+35	+44	+34	+28	+26	+24	+21	+25	+35	+33	+37	+34	+31
23-24	+35	+43	+39	+29	+24	+25	+24	+21	+32	+29	+36	+29	+31
R	49	61	55	43	37	35	36	42	48	48	53	54	44

Diurnal Variation of Y, 1942
International Quiet Days
Not corrected for non-cyclic change. Unit: One Gamma.

G.M.T.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
0- 1	+27	+27	+17	- 1	- 9	-11	-11	- 5	+ 10	+23	+27	+14	+ 9
1- 2	+28	+32	+21	+ 4	0	- 1	0	+ 3	+12	+21	+25	+12	+13
2- 3	+22	+29	+15	+ 8	+ 8	+ 8	+ 5	+11	+12	+15	+20	+12	+14
3- 4	+16	+20	+ 7	+10	+11	+ 7	+ 4	+11	+ 8	+ 7	+14	+ 8	+11
4- 5	+ 8	+ 8	+ 2	+10	+ 9	+ 3	+ 2	+ 6	+ 3	+ 1	+ 8	+ 4	+ 5
5- 6	+ 3	+ 2	+ 3	+ 5	+ 4	0	- 1	+ 2	+ 1	+ 2	+ 7	+ 6	+ 3
6- 7	+ 4	+ 1	+ 6	+ 2	+ 2	- 2	- 1	+ 2	+ 2	+ 3	+ 7	+ 6	+ 3
7- 8	+ 4	+ 1	+ 4	- 2	- 1	- 4	- 2	+ 1	+ 1	+ 2	+ 5	+ 3	+ 1
8- 9	+ 2	0	+ 1	- 3	- 2	- 5	- 2	- 1	- 1	- 1	+ 1	+ 2	- 1
9-10	0	- 1	- 3	- 3	- 3	- 6	- 3	- 3	- 1	- 2	- 2	+ 1	- 2
10-11	- 2	- 4	- 5	- 3	- 3	- 6	- 3	- 4	- 2	- 3	- 4	+ 1	- 3
11-12	- 6	- 5	- 5	- 3	- 3	- 5	- 4	- 3	- 4	- 4	- 4	- 1	- 4
12-13	- 5	- 6	- 5	- 4	- 2	- 5	- 3	- 1	- 2	- 3	- 4	- 2	- 3
13-14	- 6	- 4	- 5	- 2	- 2	- 4	- 2	0	- 2	- 1	- 4	- 3	- 3
14-15	- 5	- 4	- 5	- 1	0	0	+ 1	+ 1	- 1	- 1	- 2	- 5	- 2
15-16	- 5	- 5	- 4	0	+ 1	+ 3	+ 4	+ 3	+ 1	0	- 2	- 5	- 1
16-17	- 5	- 5	- 2	+ 2	+ 3	+ 5	+ 8	+ 4	+ 3	0	- 3	- 7	0
17-18	-16	- 9	- 2	+ 2	+ 6	+ 6	+10	+ 6	+ 2	- 4	- 8	-12	- 2
18-19	-25	-23	- 8	+ 3	+ 8	+10	+12	+12	- 7	-14	-22	-20	- 6
19-20	-26	-31	-16	- 6	+ 3	+ 9	+ 9	+ 6	-13	-21	-31	-23	-12
20-21	-23	-29	-16	-12	- 1	+ 7	+ 3	- 4	-13	-19	-29	-16	-13
21-22	- 9	-16	- 9	-11	- 5	- 2	- 7	-13	-11	-13	-16	- 2	- 9
22-23	+ 6	+ 1	0	- 4	-11	- 2	- 9	-17	- 2	0	+ 2	+12	- 2
23-24	+18	+16	+10	0	-12	- 9	- 9	-19	+ 6	+15	+15	+22	+ 4
A-a		38	26	14	14	14	9	15	16	27	31		18
B-a		2	3	7	11	16	16	16	7	4	2		4
A-b	54	63	37	22	23	19	16	30	25	44	58	38	27
B-b		27	14	15	20	21	23	31	16	21	29		13

Diurnal Variation of Vertical Intensity
International Quiet Days, 1942

Not corrected for non-cyclic change. Unit: One Gamma

G.M.T.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
0- 1	+ 5	+ 1	- 4	- 2	- 1	0	- 1	- 2	- 8	- 1	- 3	+ 4	- 1
1- 2	+ 3	0	- 3	- 6	- 1	- 1	- 2	- 3	- 9	- 2	- 3	+ 1	- 2
2- 3	0	- 1	- 4	- 9	- 1	- 2	- 3	- 4	- 8	- 3	- 4	- 2	- 3
3- 4	- 1	- 3	- 3	- 8	+ 1	- 2	- 3	- 4	- 7	- 3	- 4	- 5	- 3
4- 5	- 1	- 3	- 4	- 6	+ 1	- 3	- 3	- 3	- 5	- 3	- 4	- 5	- 3
5- 6	- 2	- 4	- 3	- 5	+ 1	- 3	- 2	- 1	- 3	- 2	- 3	- 5	- 3
6- 7	- 1	- 2	- 2	- 3	0	- 2	- 1	0	- 1	- 1	- 3	- 3	- 2
7- 8	0	0	- 2	- 2	- 1	- 2	0	0	0	- 1	- 2	- 2	- 1
8- 9	0	+ 1	- 1	- 1	- 1	- 1	+ 1	0	+ 1	- 1	- 1	- 2	- 1
8-10	+ 1	+ 1	0	0	- 1	- 1	+ 2	+ 1	+ 1	0	+ 1	0	0
10-11	+ 1	+ 2	+ 1	+ 2	- 1	0	+ 2	+ 1	+ 1	+ 1	+ 2	+ 1	+ 1
11-12	+ 1	+ 3	+ 2	+ 3	- 1	+ 1	+ 2	+ 1	+ 1	+ 1	+ 3	+ 1	+ 1
12-13	+ 2	+ 3	+ 4	+ 3	+ 1	+ 1	+ 1	+ 1	+ 1	+ 3	+ 4	+ 1	+ 2
13-14	+ 2	+ 3	+ 3	+ 4	+ 1	+ 2	+ 1	+ 2	+ 2	+ 3	+ 4	+ 1	+ 2
14-15	+ 2	+ 4	+ 4	+ 4	+ 1	+ 2	0	+ 2	+ 3	+ 4	+ 4	+ 1	+ 3
15-16	+ 2	+ 3	+ 5	+ 4	+ 2	+ 2	+ 1	+ 3	+ 5	+ 5	+ 5	0	+ 3
16-17	+ 2	+ 4	+ 5	+ 4	+ 3	+ 2	+ 1	+ 3	+ 5	+ 5	+ 4	- 1	+ 3
17-18	+ 1	+ 3	+ 5	+ 4	+ 2	+ 2	+ 1	+ 4	+ 6	+ 4	+ 4	- 2	+ 3
18-19	- 1	0	+ 3	+ 4	+ 3	+ 3	+ 1	+ 5	+ 7	+ 3	+ 3	- 2	+ 2
19-20	- 2	- 5	+ 1	+ 5	+ 3	+ 4	+ 2	+ 4	+ 5	0	+ 1	- 2	+ 1
20-21	- 5	- 4	- 1	+ 3	+ 1	+ 3	+ 2	+ 3	+ 3	- 1	0	0	0
21-22	- 4	- 4	- 2	+ 3	- 1	+ 1	+ 1	0	+ 1	- 2	- 1	+ 4	0
22-23	- 4	- 3	- 2	+ 2	- 3	0	+ 1	- 2	- 1	- 3	- 1	+ 6	- 1
23-24	- 3	- 1	0	+ 1	- 5	- 2	0	- 5	- 4	- 2	- 1	+ 6	- 1
R	10	9	9	14	8	7	5	10	16	8	9	11	6
M	- 6	0	+ 4	0	- 6	- 3	0	- 5	+ 1	- 1	+ 2	- 1	
No. of days	5	5	5	5	2	5	5	5	2	4	3	5	

Diurnal Variation of H - All Days 1942

Not corrected for non-cyclic change. Unit: One gamma

G.M.T.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
0- 1	+28	+32	+30	+22	+12	+12	+13	+11	+13	+17	+23	+21	+19
1- 2	+18	+22	+20	+ 8	+ 5	+ 6	+ 7	+ 4	+ 4	+10	+14	+14	+11
2- 3	+ 5	+11	+17	- 6	- 1	- 1	+ 2	- 4	- 3	0	+ 4	+ 3	+ 2
3- 4	- 4	0	- 5	-10	- 5	- 7	- 5	-10	- 9	- 9	- 5	- 7	- 6
4- 5	- 9	- 9	-13	-12	- 9	-11	-10	-13	-12	-12	-11	-12	-11
5- 6	-12	-14	-14	-12	-12	-11	-12	-13	-12	-13	-12	-13	-13
6- 7	-12	-14	-15	-16	-16	-10	-14	-13	-15	-12	-11	-12	-13
7- 8	-13	-13	-14	-16	- 19	-11	-15	-12	-15	-12	-11	-12	-14
8- 9	-13	-14	-12	-16	-17	-11	-16	-10	-14	-10	-12	-12	-13
9-10	-14	-13	-15	-13	-17	-10	-12	- 8	-13	- 9	-12	-10	-12
10-11	-14	-12	-15	-11	-12	- 9	-10	- 9	- 9	- 6	-10	-10	-11
11-12	-13	-10	-12	-10	- 9	- 6	- 8	- 7	- 8	- 5	- 9	- 9	- 9
12-13	-12	-11	-10	-10	- 7	- 7	- 7	- 6	- 7	- 5	- 8	- 8	- 8
13-14	-11	- 8	-10	- 8	- 6	- 6	- 5	- 6	- 6	- 3	- 7	- 8	- 7
14-15	-10	- 8	- 7	- 4	- 4	- 5	- 2	- 4	- 4	- 4	- 7	- 7	- 5
15-16	- 8	- 8	- 3	- 2	0	- 2	- 1	- 3	- 3	- 3	- 6	- 6	- 4
16-17	- 7	- 6	- 2	- 1	+ 3	0	+ 1	- 1	- 1	- 2	- 5	- 6	- 2
17-18	- 7	- 7	- 2	+ 1	+ 6	+ 3	+ 3	+ 4	0	- 2	- 5	- 6	- 1
18-19	- 4	- 8	- 2	+ 4	+10	+ 8	+ 8	+10	+ 6	0	- 3	- 3	+ 2
19-20	+ 4	- 3	+ 2	+10	+13	+11	+14	+17	+14	+ 7	+ 5	+ 5	+ 8
20-21	+14	+ 7	+10	+16	+18	+14	+16	+19	+21	+13	+12	+15	+15
21-22	+25	+21	+19	+24	+21	+17	+18	+20	+26	+19	+20	+24	+21
22-23	+33	+32	+29	+30	+23	+19	+19	+18	+25	+21	+27	+29	+25
23-24	+34	+35	+34	+31	+20	+17	+17	+15	+21	+21	+28	+28	+25
R	48	49	49	47	42	30	35	33	41	34	40	42	39
N	- 1	- 1	+ 1	- 1	+ 4	0	- 1	- 1	0	0	0	+ 2	

Diurnal Variation of Declination - All Days 1942
Not corrected for non-cyclic change. Unit: One tenth of a minute of arc

G.M.T.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
0- 1	+19	+26	+14	- 1	-11	- 9	- 6	- 8	+ 5	+12	+20	+17	+ 6
1- 2	+19	+27	+19	+ 3	- 1	0	+ 2	+ 3	+11	+15	+22	+19	+12
2- 3	+17	+23	+18	+ 8	+10	+ 7	+ 7	+ 9	+11	+14	+20	+19	+14
3- 4	+14	+15	+12	+12	+14	+ 7	+ 6	+10	+ 9	+11	+16	+18	+12
4- 5	+10	+ 7	+ 9	+11	+12	+ 4	+ 3	+ 6	+ 6	+ 8	+12	+14	+ 9
5- 6	+ 8	+ 5	+ 8	+ 9	+ 5	+ 1	0	+ 3	+ 2	+ 7	+10	+11	+ 6
6- 7	+ 8	+ 6	+ 9	+ 6	+ 3	- 1	- 1	+ 1	+ 1	+ 7	+10	+10	+ 5
7- 8	+ 7	+ 4	+ 7	+ 2	0	- 2	- 2	0	- 1	+ 4	+ 8	+ 7	+ 3
8- 9	+ 5	+ 2	+ 4	- 1	- 3	- 3	- 3	- 1	- 2	+ 2	+ 4	+ 5	+ 1
9-10	+ 1	0	0	- 2	- 4	- 5	- 4	- 3	- 3	0	0	+ 2	- 1
10-11	- 1	- 2	- 2	- 3	- 4	- 5	- 4	- 4	- 3	- 2	- 2	0	- 3
11-12	- 2	- 3	- 3	- 3	- 3	- 4	- 4	- 3	- 3	- 3	- 3	- 2	- 3
12-13	- 2	- 3	- 4	- 3	- 2	- 3	- 3	- 2	- 2	- 2	- 3	- 3	- 3
13-14	- 4	- 2	- 3	- 1	- 1	- 1	0	0	0	- 2	- 3	- 3	- 2
14-15	- 4	- 2	- 2	+ 1	+ 2	+ 1	+ 2	+ 3	+ 2	- 1	- 2	- 3	0
15-16	- 4	- 2	- 1	+ 2	+ 5	+ 4	+ 4	+ 5	+ 4	0	- 1	- 3	+ 1
16-17	- 6	- 3	0	+ 3	+ 6	+ 6	+ 7	+ 7	+ 6	0	- 2	- 5	+ 2
17-18	-15	-10	- 1	+ 5	+ 7	+ 7	+ 8	+ 9	+ 6	- 3	-10	-13	- 1
18-19	-24	-24	-10	+ 2	+ 9	+11	+11	+11	0	-12	-22	-24	- 6
19-20	-26	-32	-22	- 8	+ 2	+ 9	+ 7	+ 4	- 9	-20	-31	-30	-13
20-21	-22	-30	-26	-14	- 6	+ 2	+ 1	- 5	-14	-20	-30	-26	-16
21-22	-13	-18	-19	-13	-11	- 5	- 8	-13	-15	-16	-19	-17	-14
22-23	0	0	- 9	- 9	-15	- 9	-11	-16	-10	- 6	- 3	- 3	- 8
23-24	+12	+17	+ 3	- 5	-14	-12	-11	-15	- 2	+ 5	+10	+ 9	0
N	+ 1	- 1	0	0	+ 1	+ 1	- 1	0	+ 1	0	0	- 1	
A-a		30	23	15	18	12	11	14	14	18	25		17
B-a		1	4	8	13	16	15	15	9	3	2		5
A-b	45	59	45	26	29	19	18	26	26	35	52	49	30
B-b		30	26	19	24	23	22	27	21	20	30		18

Diurnal Variation of Vertical Intensity - All Days 1942
Not corrected for non-cyclic change. Unit: One Gamma

G.M.T.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
0- 1	+ 2	+ 1	- 3	- 3	- 3	- 3	- 2	- 5	- 6	- 2	- 2	0	- 2
1- 2	+ 1	0	- 3	- 6	- 3	- 3	- 3	- 6	- 6	- 3	- 2	0	- 3
2- 3	- 1	- 2	- 3	- 7	- 3	- 3	- 3	- 6	- 6	- 3	- 3	- 2	- 3
3- 4	- 3	- 3	- 4	- 6	- 2	- 2	- 3	- 5	- 5	- 4	- 4	- 3	- 4
4- 5	- 3	- 4	- 4	- 4	- 2	- 2	- 3	- 4	- 4	- 4	- 3	- 3	- 3
5- 6	- 3	- 4	- 3	- 3	- 2	- 2	- 3	- 3	- 3	- 2	- 2	- 3	- 3
6- 7	- 2	- 2	- 2	- 3	- 2	- 2	- 2	- 2	- 2	- 1	- 2	- 2	- 2
7- 8	- 1	- 1	- 1	- 2	- 2	- 2	- 2	- 1	- 1	- 1	- 1	- 1	- 1
8- 9	0	0	0	- 2	- 2	- 1	- 1	0	0	0	0	- 1	- 1
9-10	0	+ 1	0	- 1	- 2	- 1	- 1	0	+ 1	+ 1	0	0	0
10-11	+ 1	+ 2	0	+ 1	- 1	0	0	+ 1	+ 2	+ 2	+ 1	+ 1	+ 1
11-12	+ 1	+ 3	+ 2	+ 1	0	0	+ 1	+ 1	+ 4	+ 2	+ 2	+ 1	+ 1
12-13	+ 2	+ 3	+ 3	+ 2	+ 1	0	+ 1	+ 2	+ 4	+ 3	+ 2	+ 1	+ 2
13-14	+ 2	+ 4	+ 3	+ 3	+ 2	+ 1	+ 2	+ 3	+ 4	+ 3	+ 3	+ 2	+ 3
14-15	+ 3	+ 5	+ 4	+ 4	+ 2	+ 2	+ 2	+ 3	+ 5	+ 3	+ 3	+ 2	+ 3
15-16	+ 3	+ 5	+ 5	+ 4	+ 3	+ 2	+ 3	+ 4	+ 5	+ 4	+ 4	+ 2	+ 4
16-17	+ 3	+ 5	+ 5	+ 5	+ 3	+ 2	+ 3	+ 4	+ 5	+ 4	+ 4	+ 2	+ 4
17-18	+ 2	+ 4	+ 5	+ 4	+ 3	+ 3	+ 3	+ 5	+ 5	+ 3	+ 3	+ 1	+ 3
18-19	0	+ 1	+ 4	+ 4	+ 4	+ 3	+ 3	+ 5	+ 5	+ 2	+ 2	0	+ 3
19-20	- 2	- 3	+ 1	+ 4	+ 4	+ 4	+ 4	+ 4	+ 3	0	0	- 1	+ 1
20-21	- 2	- 4	- 1	+ 2	+ 3	+ 3	+ 3	+ 3	+ 1	- 1	- 1	- 1	0
21-22	- 2	- 5	- 3	+ 1	+ 1	+ 2	+ 1	+ 1	- 2	- 2	- 2	0	- 1
22-23	- 1	- 4	- 4	+ 1	- 1	+ 1	0	- 2	- 4	- 2	- 2	+ 1	- 1
23-24	+ 1	- 1	- 3	- 1	- 2	0	- 1	- 4	- 5	- 2	- 2	0	- 2
R	6	10	9	12	7	7	7	11	11	8	8	5	8
N	- 1	0	0	0	0	+ 1	0	0	+ 1	0	+ 1	0	

VALUES OF "K" AT APIA FOR JANUARY 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	3	3	3	2	1	2	3	3
2nd.	3	3	3	2	3	2	3	2
3rd.	4	4	3	4	4	2	2	3
4th.	2	4	3	2	3	3	2	4
5th.	3	3	3	3	3	2	2	2
6th.	2	2	2	2	2	2	3	3
7th.	3	2	1	3	2	0	2	2
8th.	2	0	0	1	2	0	2	4
9th.	3	2	2	0	1	2	3	2
10th.	2	2	1	2	3	2	3	3
11th.	2	2	2	2	2	2	2	2
12th.	3	3	1	2	2	1	2	3
13th.	2	3	2	2	2	2	3	2
14th.	3	3	1	0	0	2	3	4
15th.	2	2	2	2	3	2	2	3
16th.	2	3	2	2	2	2	2	2
17th.	3	3	4	4	3	3	3	3
18th.	5	3	2	3	3	3	3	2
19th.	3	4	3	3	0	2	3	3
20th.	3	1	1	2	1	1	3	3
21st.	3	2	1	1	2	1	3	3
22nd.	1	3	3	2	2	1	3	3
23rd.	3	2	2	1	3	2	2	2
24th.	3	3	1	1	2	2	2	3
25th.	3	2	2	2	2	2	3	1
26th.	1	2	2	2	2	2	2	2
27th.	2	3	1	2	1	1	3	3
28th.	3	3	1	2	3	2	1	2
29th.	2	0	2	1	2	1	1	2
30th.	2	1	2	2	1	3	3	2
31st.	1	2	2	1	1	1	2	2

VALUES OF "K" AT APIA FOR FEBRUARY 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	3	2	3	2	3	3	3	3
2nd.	2	3	3	3	3	3	2	3
3rd.	1	2	2	1	1	0	3	2
4th.	2	1	2	1	2	2	4	3
5th.	3	4	3	4	3	2	4	4
6th.	4	3	2	5	3	3	4	2
7th.	2	1	2	3	2	2	2	2
8th.	3	1	1	1	1	1	1	2
9th.	3	1	2	2	2	2	1	3
10th.	2	3	1	2	3	3	3	1
11th.	3	3	1	1	3	2	3	2
12th.	2	1	1	1	1	1	2	3
13th.	2	3	1	2	1	2	2	2
14th.	2	0	2	2	2	2	2	3
15th.	2	3	3	3	3	2	3	2
16th.	2	3	3	3	3	1	2	3
17th.	3	3	2	3	1	1	1	4
18th.	1	4	2	3	2	0	3	2
19th.	1	3	1	2	2	1	3	3
20th.	2	3	3	1	2	1	2	2
21st.	3	3	3	3	2	1	3	1
22nd.	3	3	2	2	2	1	3	2
23rd.	2	2	2	2	4	3	5	4
24th.	3	4	3	3	3	2	3	3
25th.	3	2	3	2	3	3	3	3
26th.	3	3	2	1	2	2	3	2
27th.	3	2	1	2	1	3	3	3
28th.	3	1	1	3	2	4	2	2

VALUES OF "K" AT APIA FOR MARCH 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	2	2	7	7	5	3	5	4
2nd.	5	5	3	3	3	2	1	3
3rd.	3	3	3	4	3	4	2	3
4th.	3	2	3	3	3	1	2	2
5th.	3	4	3	4	3	4	5	5
6th.	3	4	4	3	2	1	2	4
7th.	3	3	3	4	3	2	4	4
8th.	6	4	2	4	2	3	3	3
9th.	4	4	3	3	3	2	3	3
10th.	3	3	1	3	2	3	4	3
11th.	3	3	3	2	1	0	1	1
12th.	2	2	3	2	0	2	2	1
13th.	4	4	3	4	3	2	1	3
14th.	2	3	4	5	3	2	2	3
15th.	3	2	2	1	3	1	3	2
16th.	2	2	2	2	1	1	2	3
17th.	3	2	3	2	0	1	3	3
18th.	1	2	2	2	3	3	2	3
19th.	2	4	4	3	3	3	2	3
20th.	3	3	4	3	1	1	2	4
21st.	4	4	5	5	3	2	1	3
22nd.	3	4	3	3	3	1	3	2
23rd.	2	2	2	2	3	2	3	3
24th.	3	4	2	3	2	1	2	3
25th.	3	1	1	3	2	1	1	3
26th.	2	2	4	4	3	4	3	3
27th.	3	2	0	1	2	1	1	3
28th.	1	2	0	0	0	2	3	1
29th.	3	4	2	1	3	2	1	2
30th.	3	2	2	2	2	2	3	3
31st.	3	2	2	1	1	1	1	4

VALUES OF "K" AT APIA FOR APRIL 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	4	4	3	1	-	-	-	3
2nd.	3	3	3	4	4	3	3	3
3rd.	2	5	3	5	4	1	3	3
4th.	5	4	5	4	3	4	5	2
5th.	3	3	1	3	3	1	2	2
6th.	2	2	1	1	2	1	2	2
7th.	3	2	1	1	2	0	2	2
8th.	4	3	5	4	3	3	2	2
9th.	3	3	1	3	3	3	2	1
10th.	2	3	0	0	0	3	2	4
11th.	6	4	4	4	4	3	3	1
12th.	3	3	1	1	2	2	1	3
13th.	2	2	3	1	4	4	3	4
14th.	6	4	3	3	2	3	3	2
15th.	2	1	0	2	0	1	2	2
16th.	2	3	4	2	1	2	3	4
17th.	5	5	4	5	4	3	3	2
18th.	3	3	3	4	3	3	2	4
19th.	2	3	3	3	3	1	2	2
20th.	3	2	0	2	2	2	2	2
21st.	2	3	0	1	1	1	2	2
22nd.	2	1	1	1	1	1	1	2
23rd.	2	-	-	-	-	-	-	4
24th.	3	3	1	1	2	1	1	2
25th.	1	2	0	1	1	1	2	2
26th.	1	1	0	2	0	2	2	2
27th.	2	3	2	2	2	2	4	4
28th.	4	4	3	2	2	2	0	2
29th.	1	2	2	1	0	2	1	2
30th.	2	2	2	2	3	2	2	3

VALUES OF "K" AT APIA FOR MAY 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	3	4	3	4	1	2	1	2
2nd.	1	2	2	3	3	3	2	2
3rd.	2	2	2	3	0	1	2	3
4th.	2	3	2	2	1	2	4	3
5th.	4	3	3	4	3	2	2	2
6th.	2	2	3	3	2	1	1	2
7th.	1	2	0	3	1	2	2	2
8th.	2	3	0	2	1	3	2	3
9th.	3	3	-	-	-	-	-	3
10th.	3	2	-	-	2	2	3	4
11th.	3	3	2	1	0	0	1	1
12th.	2	2	1	1	2	1	2	1
13th.	1	2	2	0	1	2	2	1
14th.	3	5	5	5	2	3	2	2
15th.	1	2	0	4	1	2	3	2
16th.	2	4	2	2	1	1	2	1
17th.	2	1	1	2	0	0	2	0
18th.	2	2	1	3	1	1	1	1
19th.	1	1	3	2	0	1	2	2
20th.	1	2	2	3	2	3	2	2
21st.	4	3	1	0	2	2	1	2
22nd.	3	-	-	-	-	-	-	1
23rd.	2	3	2	2	0	2	2	2
24th.	1	-	-	-	-	-	-	3
25th.	3	0	0	-	-	-	-	3
26th.	2	2	0	1	0	0	1	2
27th.	1	1	-	-	-	-	-	3
28th.	2	5	5	2	3	2	1	3
29th.	-	-	-	-	-	-	-	-
30th.	-	-	-	-	-	-	-	1
31st.	1	1	1	2	0	1	2	3

VALUES OF "K" AT APIA FOR JUNE 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	2	2	1	2	-	-	-	3
2nd.	3	2	1	1	1	0	2	2
3rd.	0	2	2	2	2	2	2	3
4th.	2	2	1	1	1	1	1	2
5th.	3	2	4	2	3	3	-	-
6th.	-	-	-	-	-	-	-	2
7th.	2	2	2	-	-	-	-	-
8th.	-	-	-	-	-	-	-	1
9th.	2	-	-	-	-	-	-	1
10th.	1	1	1	0	0	2	2	2
11th.	-	-	-	-	-	-	-	3
12th.	3	3	2	4	2	3	1	2
13th.	3	3	2	3	2	2	4	3
14th.	2	3	3	2	3	1	-	2
15th.	3	2	2	3	2	0	2	3
16th.	3	1	2	1	2	2	3	1
17th.	3	3	3	3	2	0	2	2
18th.	3	1	2	2	0	1	1	2
19th.	1	2	2	2	3	3	2	2
20th.	2	3	3	1	2	1	2	2
21st.	3	2	3	1	0	0	0	2
22nd.	1	1	1	0	0	2	1	2
23rd.	2	2	1	2	2	2	1	2
24th.	3	3	2	0	1	2	1	3
25th.	3	2	3	0	0	1	2	3
26th.	3	2	1	1	2	1	1	1
27th.	2	1	1	0	1	2	2	2
28th.	2	2	3	3	2	3	3	2
29th.	3	1	3	3	2	2	2	3
30th.	4	3	-	-	-	-	-	3

VALUES OF "K" AT APIA FOR JULY 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	3	3	4	2	2	1	2	1
2nd.	2	1	2	2	1	0	2	3
3rd.	2	2	1	2	0	1	2	2
4th.	2	0	1	0	1	0	1	2
5th.	-	-	-	-	-	-	-	2
6th.	3	2	2	2	2	1	2	1
7th.	2	2	1	2	2	2	1	3
8th.	3	3	5	3	4	1	1	2
9th.	3	2	0	2	1	2	2	4
10th.	1	-	-	-	-	-	-	4
11th.	4	4	6	5	3	3	-	-
12th.	-	-	-	-	-	-	-	2
13th.	3	2	2	2	1	2	2	2
14th.	1	3	2	2	1	2	1	3
15th.	2	3	3	2	3	2	3	3
16th.	2	-	-	-	-	-	-	3
17th.	3	3	2	3	1	2	1	2
18th.	3	2	2	3	0	0	0	3
19th.	3	0	1	1	1	2	1	1
20th.	2	2	2	3	2	3	2	-
21st.	-	-	-	-	-	-	-	3
22nd.	1	1	1	1	3	1	1	2
23rd.	4	0	2	3	2	3	2	3
24th.	1	3	2	1	0	2	2	3
25th.	2	2	3	4	3	1	3	3
26th.	2	0	2	1	2	3	3	4
27th.	2	2	4	3	3	2	3	3
28th.	3	3	3	3	1	0	2	2
29th.	2	2	3	-	-	-	-	2
30th.	3	2	2	3	3	2	2	2
31st.	2	2	2	3	1	2	2	3

VALUES OF "K" AT APIA FOR AUGUST 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	3	2	1	0	1	1	-	-
2nd.	-	-	-	-	-	-	-	2
3rd.	3	2	1	1	1	1	2	1
4th.	2	1	2	1	0	2	1	2
5th.	2	2	1	2	1	1	2	2
6th.	1	1	2	2	3	3	1	3
7th.	3	3	3	3	2	1	3	2
8th.	2	2	2	1	0	1	1	2
9th.	2	2	2	2	3	2	3	3
10th.	4	4	3	2	3	3	2	1
11th.	2	3	4	3	3	1	2	1
12th.	3	2	3	3	1	1	-	-
13th.	-	-	-	-	-	-	-	2
14th.	3	2	2	3	0	0	1	1
15th.	2	2	1	2	1	1	3	2
16th.	4	5	4	2	3	2	4	3
17th.	3	2	3	4	3	2	2	2
18th.	2	3	3	4	3	2	2	3
19th.	3	3	5	4	3	2	2	4
20th.	4	4	3	4	3	2	2	3
21st.	1	2	2	1	2	1	1	3
22nd.	2	3	2	2	0	2	2	4
23rd.	4	4	2	3	2	3	3	4
24th.	3	4	2	2	1	2	3	3
25th.	2	4	4	2	2	1	2	3
26th.	3	3	2	1	1	1	3	3
27th.	2	2	3	3	2	3	3	2
28th.	3	2	2	2	1	0	3	2
29th.	4	2	1	1	1	0	2	3
30th.	3	3	1	2	3	3	3	2
31st.	2	3	3	2	4	1	1	2

VALUES OF "K" AT APIA FOR SEPTEMBER 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	3	2	2	4	4	2	3	2
2nd.	2	3	4	4	3	3	2	3
3rd.	1	2	3	3	1	1	1	3
4th.	1	3	1	3	4	3	2	3
5th.	1	2	2	3	2	3	3	3
6th.	2	3	4	3	3	2	2	5
7th.	3	-	-	-	-	-	-	3
8th.	3	2	2	3	2	2	3	3
9th.	2	1	2	3	2	1	2	2
10th.	2	2	3	2	1	3	3	2
11th.	3	2	2	3	4	3	3	6
12th.	3	5	4	5	3	3	3	3
13th.	3	3	3	3	1	3	2	4
14th.	4	3	3	3	2	2	3	3
15th.	3	4	3	3	2	3	-	-
16th.	-	-	-	-	-	-	-	4
17th.	4	3	3	4	3	3	3	4
18th.	2	4	3	3	2	2	3	3
19th.	3	4	3	3	3	2	2	3
20th.	3	2	2	3	4	1	2	4
21st.	3	3	4	3	3	2	3	2
22nd.	1	3	3	4	3	2	3	4
23rd.	2	3	2	2	2	1	2	3
24th.	2	2	2	1	1	1	2	3
25th.	1	1	1	1	2	0	1	2
26th.	3	2	1	2	1	2	3	2
27th.	1	4	2	3	2	1	1	3
28th.	2	2	0	0	2	1	1	1
29th.	2	1	0	2	2	1	2	2
30th.	2	-	-	-	-	-	-	1

VALUES OF "K" AT APIA FOR OCTOBER 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	1	1	0	0	1	1	2	3
2nd.	-	-	-	-	-	-	-	3
3rd.	4	5	4	4	3	2	2	3
4th.	4	3	3	4	3	3	2	3
5th.	3	4	4	3	3	2	3	2
6th.	3	2	2	1	0	2	2	2
7th.	4	2	2	2	3	2	1	3
8th.	2	1	2	1	3	1	1	2
9th.	2	-	-	-	-	-	-	2
10th.	1	2	3	2	2	3	2	3
11th.	2	1	2	3	3	4	3	4
12th.	2	3	5	3	3	3	3	3
13th.	3	3	2	3	2	3	2	-
14th.	-	-	-	-	-	-	-	3
15th.	2	3	4	1	2	2	3	3
16th.	3	2	2	3	3	1	2	2
17th.	3	3	3	2	2	2	2	2
18th.	2	3	3	3	2	2	3	-
19th.	-	-	-	-	-	-	-	2
20th.	3	2	1	3	2	3	3	1
21st.	1	1	2	2	2	1	1	3
22nd.	2	3	1	1	2	2	3	3
23rd.	0	2	2	2	0	0	2	2
24th.	2	0	1	2	1	1	2	1
25th.	4	4	3	4	2	2	2	3
26th.	2	2	2	0	0	2	3	3
27th.	2	2	1	1	1	2	3	3
28th.	1	0	0	2	4	5	4	3
29th.	4	4	5	5	3	3	3	3
30th.	3	3	4	4	2	3	2	3
31st.	3	3	4	4	3	3	3	4

VALUES OF "K" AT APIA FOR NOVEMBER 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	2	3	3	3	2	2	2	2
2nd.	2	2	3	3	2	3	1	3
3rd.	2	1	2	2	2	2	2	2
4th.	1	2	3	3	2	2	?	3
5th.	3	2	1	1	2	2	4	4
6th.	3	3	1	1	0	2	1	3
7th.	1	2	2	2	2	2	3	2
8th.	2	3	4	3	3	2	3	3
9th.	2	2	1	2	2	2	2	2
10th.	3	3	2	3	3	1	3	2
11th.	2	2	1	2	3	0	3	2
12th.	2	2	2	2	2	1	3	2
13th.	3	2	2	3	2	3	3	2
14th.	2	3	3	2	2	2	3	2
15th.	2	2	0	1	2	2	2	3
16th.	2	2	1	0	1	1	1	2
17th.	2	2	2	3	3	1	1	2
18th.	2	3	2	3	2	2	3	2
19th.	2	2	3	3	2	2	2	3
20th.	3	2	3	4	2	2	3	3
21st.	3	1	3	3	1	2	2	3
22nd.	1	1	1	1	1	1	2	3
23rd.	3	3	1	2	3	3	3	5
24th.	4	5	4	5	3	2	4	4
25th.	3	3	2	4	3	2	2	3
26th.	4	3	3	3	3	3	4	3
27th.	2	1	2	4	2	1	2	2
28th.	1	3	2	4	3	3	2	3
29th.	3	1	2	4	3	2	1	2
30th.	2	1	3	2	2	2	2	0

VALUES OF "K" AT APIA FOR DECEMBER 1942

HOUR	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
DATE								
1st.	1	1	1	0	2	2	2	4
2nd.	3	2	0	1	2	2	2	3
3rd.	2	1	0	1	1	1	0	3
4th.	3	3	2	1	3	2	2	2
5th.	4	3	2	1	0	2	1	2
6th.	2	1	2	1	1	2	2	3
7th.	2	2	1	2	3	3	3	1
8th.	2	2	2	0	2	2	3	1
9th.	3	2	2	3	3	4	3	4
10th.	3	4	3	3	2	1	3	3
11th.	2	4	2	3	3	2	2	2
12th.	4	2	3	4	3	2	2	2
13th.	2	1	0	2	2	3	3	1
14th.	2	2	3	2	2	1	2	2
15th.	1	2	0	2	2	3	2	4
16th.	2	2	2	3	1	1	2	1
17th.	2	3	0	1	1	1	2	3
18th.	3	2	3	1	0	2	2	2
19th.	3	1	1	2	1	2	2	3
20th.	3	2	1	2	0	2	3	3
21st.	4	4	3	-	-	-	-	3
22nd.	2	3	3	4	2	1	3	2
23rd.	2	2	4	3	4	2	2	2
24th.	1	3	3	2	3	3	2	2
25th.	4	2	2	3	3	2	1	3
26th.	3	3	3	2	3	3	3	3
27th.	3	1	1	2	2	0	2	2
28th.	2	1	1	2	2	1	-	-
29th.	-	-	-	-	-	3	2	3
30th.	3	2	0	1	1	2	2	3
31st.	2	1	1	2	0	0	2	4

Horizontal Intensity

(H = 34000γ + Mean + ...)

G.M.T. January 1942.

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H.	M.	γ	Minimum. H.	M.	γ	Range.
+ 1	+33	+17	- 7	-20	-18	-18	-18	-18	-13	- 9	- 9	-14	-15	-15	-13	-15	-14	- 9	-23	+ 7	+21	+43	+58	+58	887	23	03	+61	04	00	-23	84
2	+53	+38	+20	+ 6	- 3	+ 5	+ 8	+ 3	+ 2	- 8	- 3	- 2	- 7	+ 2	- 5	-14	-18	-20	-18	-18	-14	-10	- 5	+ 2	882	00	00	+58	17	33	-23	81
3	+36	+44	+25	- 6	-12	-25	-36	-43	-44	-43	-36	-23	-16	-12	- 4	+12	+11	+11	+19	+26	+30	+32	+29	+26	853	01	10	+62	09	13	-45	107
4	+ 9	+ 1	- 3	- 6	-24	- 9	+ 4	+ 1	+ 2	- 4	- 9	- 9	- 1	- 9	- 6	+ 2	- 3	- 9	+ 1	+ 6	+19	+24	+16	+16	863	20	59	+30	04	30	-29	59
5	+31	+18	- 4	-21	- 9	-14	-13	-13	- 7	-10	-15	- 4	- 7	- 2	- 2	+ 3	+ 6	- 2	- 7	- 1	+11	+18	+26	+23	851	00	12	+36	03	25	-24	60
6	+17	+ 8	- 3	- 8	-11	-17	-18	-17	-12	-12	- 8	- 5	- 6	- 6	- 5	+ 2	+ 2	- 5	- 8	+ 2	+18	+29	+27	+24	860	22	02	+34	05	44	-19	53
7	+22	+19	+ 7	- 6	- 8	- 7	- 8	- 8	-11	-12	-15	-15	- 3	-10	-10	-10	-10	-12	-10	- 3	+12	+27	+39	+41	865	23	04	+43	10	56	-18	61
8	+26	+16	+ 4	- 5	-10	-13	-14	-14	-14	-14	-15	-14	-14	-11	-11	-11	-11	-11	- 6	+ 4	+14	+26	+39	+65	873	23	41	+69	07	43	-15	84
9	+46	+32	+19	+13	+ 3	- 2	-10	-15	-17	-20	-22	-22	-22	-22	-22	-21	-17	-17	-12	- 2	+20	+28	+39	+38	884	00	00	+55	12	31	-24	79
10	+36	+28	+15	+ 3	0	- 6	-12	-16	-15	-15	-15	-15	-14	-15	- 5	- 5	- 7	- 4	0	+ 4	+11	+15	+18	+15	879	00	08	+41	08	29	-17	58
11	+20	+12	+ 1	- 9	- 9	-11	-11	-11	-14	-16	-16	-14	-11	-11	-14	- 9	- 9	- 9	- 1	+ 7	+20	+33	+40	+37	878	22	28	+43	12	05	-19	62
12	+31	+21	- 1	- 7	- 3	- 6	- 9	- 9	- 9	- 7	- 9	-14	-14	-11	- 9	-12	-13	-13	- 6	+ 3	+ 6	+16	+32	+33	876	23	10	+39	11	51	-17	56
13	+22	+ 8	- 2	- 4	- 2	- 7	-12	-16	-17	-17	-15	-15	-17	-15	-15	-11	-10	-10	- 5	+13	+30	+35	+43	+43	874	23	08	+48	13	36	-19	67
14	+17	+10	+ 7	+ 8	+ 7	- 5	-10	-12	-15	-16	-17	-17	-17	-19	-17	-17	-17	-12	- 2	+10	+29	+38	+33	+28	894	21	12	+41	15	53	-20	61
15	+34	+19	+ 9	+ 9	0	- 6	- 2	- 3	- 1	-10	-11	-13	-16	-21	-18	-11	- 6	- 6	- 5	- 1	+ 7	+21	+24	+18	875	00	00	+37	13	47	-23	60
16	+12	+ 2	- 3	- 4	- 8	- 3	- 3	- 5	- 5	-10	-10	-13	-15	-13	-12	- 5	- 5	- 5	- 5	+ 2	+10	+25	+36	+40	867	23	22	+41	12	28	-19	60
17	+39	+24	+20	+16	+ 9	- 4	-15	-27	-33	-31	-33	-36	-26	-21	-16	-14	- 9	- 5	- 4	+ 4	+19	+30	+57	+59	858	23	09	+64	09	14	-43	107
18	+36	+13	-22	-34	-34	-27	-23	-24	-22	-17	- 7	- 7	-12	- 6	- 2	- 4	- 1	+ 6	+14	+31	+36	+31	+41	+43	861	00	00	+48	03	10	-39	87
19	+37	+19	+ 9	+ 1	-20	-31	-23	-14	- 9	-16	- 6	- 1	- 1	- 4	- 4	- 1	+ 1	0	- 6	-14	- 4	+16	+34	+34	853	00	00	+45	04	54	-36	81
20	+ 8	+ 3	- 3	- 8	-12	-17	-17	-17	-17	-17	-16	-12	-12	-12	-11	- 9	-12	-11	- 6	+ 3	+23	+43	+59	+66	866	23	36	+67	06	00	-19	86
+21	+56	+41	+23	+ 6	- 2	- 9	-12	-14	-14	-14	-14	-16	-12	- 9	- 7	- 6	- 4	- 7	-12	-12	- 9	- 1	+19	+28	871	00	00	+59	11	33	-17	76
22	+27	+19	+ 8	- 3	-17	-23	-20	-12	-12	-13	-12	- 6	-13	-11	-15	-13	-16	-16	-13	- 3	+17	+42	+61	+52	870	22	42	+63	05	38	-23	86
23	+48	+34	+18	+ 3	- 2	- 5	-12	-15	-20	-17	-20	-20	-17	-15	-10	- 5	- 5	- 2	0	+ 1	+ 6	+15	+20	+20	864	00	00	+54	08	49	-20	74
+24	+ 1	-12	-16	-15	-12	-10	-10	- 7	- 7	- 7	-10	-12	-12	- 9	- 5	- 4	- 2	0	+ 5	+18	+25	+34	+39	+33	874	22	48	+41	02	51	-17	58
25	+25	+21	+16	+14	+ 6	+ 1	- 3	- 1	- 1	- 5	-11	- 9	-14	-14	-14	-10	- 9	- 9	- 4	- 6	- 1	+ 6	+14	+14	878	00	00	+26	12	13	-16	42
+26	+15	+ 8	- 7	-17	-20	-16	-15	-12	-12	-15	-15	-14	-12	-10	-10	- 9	- 7	- 5	+ 2	+10	+24	+39	+48	+56	869	24	00	+58	04	15	-20	78
27	+53	+46	+29	+13	- 2	- 8	-10	-12	-15	-11	-12	-10	-10	-10	- 9	- 7	- 6	- 5	- 5	- 5	0	0	0	+ 3	874	00	12	+53	08	57	-19	72
28	+10	+ 7	0	-15	-10	- 8	-10	-11	- 9	-12	-16	-18	-15	- 4	- 8	- 8	- 5	- 4	0	+ 7	+17	+32	+42	+45	862	23	30	+46	03	27	-23	69
29	+31	+17	+ 5	- 8	-13	-13	-12	-13	-10	-10	-10	-11	-10	- 8	- 7	- 8	- 8	- 5	- 3	+ 1	+12	+25	+26	+35	871	00	00	+35	06	12	-15	50
30	+13	+ 5	-10	-20	-28	-28	-25	-20	-18	-13	-14	-14	-12	-10	-10	- 8	- 3	0	+ 6	+19	+32	+48	+54	+53	877	23	05	+56	05	06	-30	86
+31	+35	+27	+14	+ 2	- 6	-14	-11	- 8	- 6	-10	-11	- 9	- 9	- 9	- 9	- 6	- 8	- 9	- 6	0	+ 9	+14	+16	+16	888	00	00	+39	05	30	-14	53
MEAN.	+28	+18	+ 5	- 4	- 9	-12	-12	-13	-13	-14	-14	-13	-12	-11	-10	- 8	- 7	- 7	- 4	+ 4	+14	+25	+33	+34	871							

200/1/39—17185

Horizontal Intensity

G.M.T. (H = 34000$_\gamma$ + Mean + ...) February 1942.

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	+13	+10	- 2	-13	-17	-17	-14	- 9	- 4	- 3	- 3	- 1	+ 1	+ 1	- 7	- 7	- 4	- 2	- 4	- 7	+ 2	+19	+34	+38	896	23 12 +42	05 00 -19	61
2	+49	+42	+31	+17	+ 4	- 5	- 4	- 4	-13	-27	-15	-18	-17	-18	-11	-11	-11	-17	-22	-13	- 1	+13	+25	+17	875	00 00 +53	09 34 -33	86
3	+11	+ 2	- 8	-12	-17	-17	-11	-11	-12	-12	-10	-11	-11	- 8	- 8	-10	-11	-11	- 8	+ 7	+26	+45	+55	+54	870	22 48 +57	04 54 -21	78
4	+29	+15	+ 5	- 5	-13	-15	-14	-10	-12	-11	-14	-14	- 9	- 4	- 7	- 7	- 7	-13	-21	-20	+ 7	+35	+58	+52	882	23 10 +63	19 08 -25	88
5	+58	+37	+27	+17	0	-18	-20	-25	-25	-18	-13	-15	-25	-30	-22	-13	-15	-17	-20	- 5	+18	+25	+50	+60	857	00 00 +69	13 51 -32	101
6	+62	+43	+16	+ 9	- 5	- 4	- 4	- 9	-11	-14	-21	+18	+ 5	- 4	-11	-11	+10	+ 7	-14	-24	-26	- 9	+ 3	+ 4	851	00 00 +70	19 55 -32	102
7	+ 4	- 2	- 9	-17	-21	-21	-21	-19	-16	-13	+ 2	- 2	- 4	- 3	- 2	- 1	+ 3	+ 3	+ 4	+11	+17	+31	+41	+41	851	23 09 +46	06 05 -24	70
+8	+16	+12	+ 7	0	- 9	-11	- 9	- 9	-11	-11	-14	-11	-12	-10	- 9	- 7	- 6	- 6	- 3	0	+11	+27	+40	+34	868	22 48 +68	10 37 -15	83
+9	+23	+19	+14	+ 4	- 1	- 6	- 6	- 9	-16	-20	-21	-19	-19	-19	-15	-11	- 8	- 9	- 6	- 1	+ 9	+25	+44	+47	873	24 00 +51	09 43 -23	74
10	+45	+38	+28	+14	+ 1	- 6	- 9	-11	-10	- 6	- 6	-12	-14	0	+1	- 4	-11	-19	-23	-23	-10	+ 3	+ 4	+15	877	00 15 +46	12 45 -19	65
11	+29	+24	+16	+ 7	- 3	-11	-13	-11	-11	-11	-11	-13	- 8	- 6	- 6	- 6	- 3	- 3	- 1	- 6	- 3	+ 7	+14	+19	865	00 35 +31	11 38 -14	45
+12	+11	+ 7	0	- 8	-11	-13	-11	-11	-10	- 8	-11	- 8	- 8	- 6	- 6	- 3	- 3	- 1	- 1	+ 2	+ 9	+20	+37	+45	870	23 55 +47	05 38 -13	60
13	+22	+ 9	- 5	- 8	-10	- 8	- 3	- 8	- 9	- 9	- 8	-10	-13	-15	-12	-10	-10	-11	- 8	+ 3	+17	+28	+38	+39	887	23 9 +43	13 13 -17	60
14	+36	+21	+ 8	- 2	- 7	- 8	- 4	- 1	- 4	- 6	-11	-13	-16	-14	-14	- 8	- 9	-14	-14	- 7	+ 4	+22	+29	+23	881	00 00 +41	12 12 -18	59
15	+32	+16	+ 3	-13	-25	-30	-40	-32	-30	-23	-15	-13	-16	-10	- 8	- 3	0	- 4	- 5	+ 8	+28	+47	+60	+63	862	23 00 +65	06 46 -41	106
16	+46	+33	+20	+ 5	- 5	-13	-18	-18	-23	-24	-25	-18	-13	-13	- 8	- 3	- 5	- 3	- 3	+ 1	+ 6	+22	+26	+37	872	00 06 +51	10 00 -27	78
17	+48	+40	+16	- 2	-18	-25	-20	-18	-18	-20	-10	- 8	- 8	- 8	- 8	- 8	-11	-13	- 8	+ 1	+17	+32	+48		867	23 57 +50	05 26 -28	78
+18	+39	+30	+19	+ 7	-11	-28	-28	-26	-23	-20	-16	-13	-13	-11	-10	- 8	-10	-11	-10	- 3	+17	+35	+47	+52	875	23 45 +52	05 39 -31	83
+19	+35	+26	+14	0	-10	-16	-20	-17	-19	-20	-20	-17	-12	-12	-12	-16	-15	-15	-11	+ 5	+21	+34	+51	+54	889	22 48 +56	09 44 -21	77
20	+59	+52	+38	+21	+13	+ 1	- 9	-16	-19	-19	-18	-20	-22	-21	-17	-20	-19	-16	-14	- 7	- 1	+ 9	+19	+24	883	00 40 +60	12 39 -24	84
21	+31	+28	+18	- 2	-19	-19	-17	-21	-27	-25	-22	-19	-17	-14	-13	-12	-11	-11	- 7	+ 6	+28	+44	+56	+55	871	23 25 +58	08 57 -32	90
22	+48	+32	+15	0	-17	-20	-18	-18	-17	-13	-13	-13	-10	- 9	- 3	- 3	- 3	- 3	0	0	+ 5	+17	+23	+22	867	00 01 +55	06 06 -23	78
23	+42	+32	+27	+15	+ 2	- 1	0	- 3	- 1	+ 2	+ 6	+ 5	+ 7	+20	+15	- 3	- 9	- 8	-15	- 6	-34	-42	-35	-17	842	00 15 +46	21 07 -46	92
24	- 8	-23	-28	-28	-25	-13	- 8	- 7	-13	-18	- 8	- 8	- 8	- 1	+ 1	+ 1	+ 4	+ 4	+ 6	+14	+29	+39	+41	+49	838	23 44 +52	01 47 -31	83
25	+35	+17	- 1	- 8	-13	-16	-20	-18	-15	-10	- 7	-10	-13	-10	- 8	- 8	0	- 3	+ 2	+12	+10	+28	+33	+30	852	22 18 +37	06 36 -20	57
26	+26	+19	+14	+ 6	- 6	-14	-14	-11	- 9	- 9	-11	-11	-10	- 6	- 6	- 6	- 1	0	- 6	- 5	+ 4	+14	+21	+29	858	00 38 +29	05 37 -16	45
27	+20	+20	+15	+ 3	- 8	-13	-13	-10	-10	-10	- 8	-10	-12	-13	-12	- 3	+ 5	+ 3	0	+ 3	+ 4	+12	+16	+15	867	01 27 +21	06 00 -14	35
28	+28	+23	+16	+ 1	- 5	- 9	- 9	- 9	- 9	+ 1	- 4	- 5	+ 2	+ 2	- 7	-12	-12	- 7	-16	-15	- 4	+11	+19	+26	851	23 45 +28	15 53 -29	57
29																												
30																												
31																												
MEAN.	+32	+22	+11	0	- 9	-14	-14	-13	-14	-13	-12	-10	-11	- 8	- 8	- 8	- 6	- 7	- 8	- 3	+ 7	+21	+32	+35	868			

[200/1/39—17185

Horizontal Intensity

G.M.T. (H = 34000γ + Mean + ...) March 1942.

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	+48	+45	+35	+25	+20	+20	+23	+78	+141	+35	-43	-30	-61	-53	-45	-29	-22	-24	-28	-29	-36	-36	-29	-12	829	08 35 +172	12 54 -89	261
2	-15	-36	-47	-34	-27	-22	-15	- 6	- 2	+ 3	+ 2	+ 7	+17	+15	+15	+11	+ 7	+ 7	0	+ 2	+12	+22	+32	+41	807	24 00 +45	01 40 -52	97
3	+27	+21	+ 6	- 1	-11	- 9	- 6	- 9	-16	- 9	- 6	-19	- 1	-10	+ 1	+11	+ 6	- 6	-12	-11	- 6	+ 6	+16	+26	828	01 04 +33	11 25 -23	56
4	+23	+ 9	- 6	-18	-26	-26	-21	-16	-18	-21	- 6	-13	-11	- 6	+ 2	+ 4	+ 2	+ 2	+ 4	+13	+17	+30	+37	+37	836	22 18 +39	04 55 -28	67
5	+37	+36	+28	+16	+11	- 2	-24	-29	-24	-17	- 9	- 7	+ 5	+ 5	+ 9	+28	+18	+31	+ 9	-27	-34	-31	-22	- 4	837	17 19 +41	21 30 -51	92
6	+12	+ 2	-16	-42	-49	-35	-35	-30	-20	- 7	-13	- 7	- 3	0	+ 4	+ 7	+ 9	+ 7	+ 9	+17	+24	+42	+64	+68	826	23 01 +77	04 21 -52	129
7	+19	+ 3	0	- 5	-15	-20	-17	-22	-30	-30	-25	- 5	-10	-14	- 7	0	0	+ 3	+ 8	+13	+34	+38	+46	+46	870	22 26 +55	09 58 -35	90
8	+62	+43	+ 4	-23	-12	-15	-19	-24	-28	-24	-22	- 9	+ 3	+ 1	+ 3	+ 8	+13	+ 2	- 7	- 2	+ 8	+18	+16	+16	837	00 14 +74	08 52 -29	103
9	+28	- 1	-10	-34	-46	-22	-19	-22	-22	-12	- 7	-10	+ 3	+ 3	+ 5	+15	+15	+20	+20	+18	+20	+20	+15	+15	826	00 44 +38	04 16 -53	91
10	- 6	- 7	-18	-26	-34	-24	-22	-22	-19	-19	-19	- 2	- 4	- 4	- 2	+11	+16	+ 3	+ 3	+26	+36	+49	+46	+46	858	21 57 +51	04 46 -37	88
11	+43	+25	+10	- 6	-10	-22	-25	-24	-16	-16	-16	-10	- 9	- 9	- 6	- 5	- 4	- 1	0	+ 6	+15	(+22)	(+26)	+27	855	00 01 +49	06 05 -26	75
+ 12	+13	+ 7	- 1	- 7	-10	-10	- 7	-12	-19	-20	-17	-15	-14	-13	-12	- 9	- 5	- 1	+ 3	+10	+20	+31	+37	+41	871	23 42 +43	09 15 -21	64
13	+47	+20	+19	+ 2	-23	-16	- 7	- 6	-13	-26	-21	-28	- 8	- 8	- 6	- 4	- 2	+ 2	+ 4	+ 8	+14	+14	+13	+19	852	00 00 +56	11 24 -35	91
14	+19	+ 6	+ 2	- 5	- 2	- 1	- 4	-18	-38	-29	-20	- 4	+ 8	+ 2	- 1	- 5	- 2	- 3	- 3	+ 7	+15	+21	+27	+20	849	22 45 +30	08 37 -41	71
15	+ 9	+13	+ 9	0	- 6	-14	-19	-21	-19	-15	-14	-15	-16	- 6	- 2	- 9	- 6	- 8	- 6	+ 6	+19	+31	+38	+42	866	24 00 +44	07 10 -23	67
+ 16	+42	+34	+19	+ 1	- 7	- 9	-12	-18	-17	-15	-12	-10	-12	-12	-12	-11	-10	-10	-10	- 6	+ 5	+18	+30	+38	867	00 16 +44	07 52 -20	64
17	+39	+29	+11	- 1	- 1	- 4	-14	-19	-14	-10	- 9	- 8	- 9	- 9	- 9	- 6	- 4	- 4	- 1	- 1	- 1	+ 4	+16	+29	866	00 27 +42	07 49 -21	63
18	+25	+16	+ 3	- 9	-15	-14	-15	-15	-15	-18	-15	-13	-10	- 5	- 5	- 8	+ 2	0	- 5	+ 3	+13	+27	+39	+40	870	23 05 +44	10 07 -20	64
19	+39	+32	+17	+ 9	- 6	-16	-18	-10	- 2	+ 2	- 5	- 6	-10	-15	-13	-11	- 3	- 1	- 8	-10	+ 4	+11	+20	+ 9	863	00 00 +42	06 15 -23	65
20	+ 7	+ 1	-14	-24	-34	-31	-31	-20	-10	-19	-18	- 9	- 4	- 1	+ 1	+ 2	+ 2	+ 6	+ 6	+ 9	+19	+35	+56	+62	852	24 00 +67	04 54 -39	106
21	+83	+75	+47	+21	+12	- 3	-28	-52	-64	-47	-36	-33	-26	-19	-13	-11	-10	- 5	- 1	+ 3	+12	+14	+42	+47	839	00 39 +85	08 55 -67	152
22	+32	+21	+ 4	- 9	-31	-31	-31	-19	-20	-21	- 9	- 9	-13	- 9	+ 4	+ 4	+ 2	0	- 1	+ 9	+21	+29	+36	+39	852	23 09 +41	04 43 -34	75
23	+25	+16	+ 7	- 7	-12	- 8	- 9	-12	-14	-14	-16	- 9	-12	- 2	- 6	- 3	+ 1	- 2	+ 1	+ 3	+ 1	+11	+25	+36	865	23 49 +39	10 27 -17	56
24	+32	+29	+19	+ 7	-11	-21	-22	-21	-18	-13	- 6	-11	-16	-13	-11	- 7	- 6	- 6	- 1	+ 9	+22	+33	+43		869	23 19 +44	07 07 -23	67
+ 25	+32	+15	+ 4	- 1	- 4	- 6	- 9	-11	-11	-16	- 8	-11	-10	-16	-15	-11	-11	- 8	- 8	- 4	+ 4	+19	+33	+42	877	23 52 +46	09 36 -19	65
26	+44	+34	+21	+13	+ 6	+ 1	+ 6	+16	+ 8	+ 3	-11	-27	-28	-34	-34	-27	-19	-22	-12	+ 2	+ 3	+11	+18	+35	876	00 03 +47	14 19 -40	87
+27	+37	+27	+ 3	+ 1	-18	-13	-13	-14	-13	-16	-17	-18	-16	-13	-11	- 8	- 5	- 2	0	+ 7	+14	+22	+29	+40	865	24 00 +42	11 24 -19	61
+28	+24	+15	+ 7	- 2	-12	-15	-15	-17	-16	-15	-16	-15	-17	-17	-17	-13	- 9	- 4	- 1	+ 9	+26	+36	+41	+41	879	22 49 +43	12 59 -20	63
29	+44	+44	+35	+15	-10	-12	- 7	- 9	-12	-18	-19	-19	-23	-25	-11	-12	-14	-14	-11	- 3	+ 5	+16	+26	+51	876	01 03 +48	14 03 -29	77
30	+35	+18	0	- 8	- 7	- 6	- 8	-11	- 9	-13	-11	- 7	- 7	- 8	- 9	- 7	- 8	- 6	+ 3	- 6	+ 4	+18	+27	+37	870	00 09 +40	09 06 -14	54
31	+31	+21	+ 5	- 7	-14	-17	-14	-12	-12	-14	-12	- 9	- 8	-12	- 9	- 9	- 7	- 4	- 2	+ 4	+12	+21	+33	+42	877	23 42 +67	05 54 -19	76
MEAN.	+30	+20	+ 7	- 5	-13	-14	-15	-14	-12	-15	-15	-12	-10	-10	- 7	- 3	- 2	- 2	- 2	+ 2	+10	+19	+28	+34	855			

200/1/41—14357]

Horizontal Intensity

G.M.T. (H = 34000γ + Mean + ...) April 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1																												
2	+71	+52	+35	+21	+19	+25	+15	+16	+ 1	-11	-28	-31	-44	-36	-23	-26	-14	-14	-15	- 9	-16	- 6	+ 6	+12	859	00 00 +77	13 31 -53	130
3	+32	+27	+17	- 3	-34	-46	-47	-58	-60	-55	-41	-25	-17	- 9	+ 6	+11	+ 8	+11	+13	+36	+48	+51	+58	+76	837	23 46 +79	08 46 -65	144
4	+79	+50	+21	+17	+26	+26	-27	-18	-11	-11	-16	- 9	-23	-18	- 7	+ 4	+ 1	-11	- 6	-16	-28	-14	-11	- 8	829	00 09 +84	06 57 -48	132
5	-18	-21	-22	-25	-21	-15	-15	-15	-14	0	0	- 8	- 6	+ 5	+ 6	+ 2	+ 1	+ 2	+ 3	+ 7	+20	+37	+45	+47	833	23 22 +48	03 36 -25	73
6	+19	+ 5	- 8	-15	-20	-18	-15	-15	-15	-13	-12	-12	-10	- 5	- 4	- 3	0	+ 2	+ 2	+ 7	+17	+28	+42	+42	854	23 25 +45	03 54 -23	68
+ 7	+20	+ 4	- 7	-12	-12	-15	-20	-21	-18	-16	-14	-12	-10	- 7	- 5	- 4	- 2	- 2	0	+ 7	+20	+34	+42	+46	866	23 41 +47	07 08 -22	69
8	+46	+39	+ 7	- 6	-17	- 4	- 9	-38	-56	-40	-25	-19	-11	- 9	- 3	+ 4	+ 6	+ 2	+ 6	+ 7	+15	+28	+36	+36	859	00 00 +52	08 25 -62	114
9	+22	+ 5	-13	-18	-16	-14	-13	-15	-14	-13	-10	- 5	- 5	- 8	0	- 2	+ 5	+12	+11	+12	+15	+20	+22	+30	864	23 26 +31	03 32 -19	50
10	+11	- 2	-11	-12	-11	- 9	-11	-13	- 7	-12	-12	-12	-13	-14	-12	- 9	- 3	+ 6	+13	+22	+29	+35	+27	+13	878	21 17 +37	02 54 -14	51
11	+51	+14	-17	-30	-18	-20	-12	- 6	- 8	- 8	-28	-37	-25	-24	-10	-10	- 6	+ 1	+ 9	+22	+31	+39	(+44)	+44	816	00 00 +68	11 37 -44	112
12	+ 1	-11	-14	-11	- 9	- 9	-14	-11	-11	-11	-10	-10	- 9	- 4	- 4	- 6	- 4	+ 1	+ 6	+14	+19	+31	+39	+34	851	22 45 +41	02 08 -17	58
13	+12	+ 2	- 3	- 2	+ 1	- 8	-13	- 9	- 3	+ 2	+ 1	+ 2	+ 2	- 4	+11	+ 2	-10	-13	-14	- 2	+ 5	+17	+22	+12	860	21 52 +27	18 24 -18	45
14	+ 8	-48	-66	-44	-29	-28	-20	-15	-13	- 3	- 7	0	- 2	- 3	- 2	+ 6	+ 9	+13	+16	+23	+38	+51	+56	+53	844	22 30 +58	02 28 -76	134
15	+24	+11	- 2	- 7	-10	-14	-17	-17	-19	-15	-12	-10	- 9	-10	- 9	- 7	- 5	- 2	+ 4	+ 9	+18	+23	+35	+40	862	23 19 +40	08 24 -20	60
16	+40	+30	+18	+ 5	- 7	-15	-17	-24	- 9	- 7	-15	-12	-12	-10	- 9	- 5	- 4	+ 3	+ 9	+15	+13	+11	+ 8	+ 3	857	00 00 +43	07 15 -32	75
17	+13	-21	-45	-51	-38	-30	-62	-45	-48	-34	+ 3	- 2	- 3	+ 1	+ 9	+27	+18	+17	+28	+41	+48	+58	+61	+60	825	23 03 +63	06 49 -74	137
18	+36	+18	+ 5	+ 8	+ 7	-10	-18	-30	-30	-24	- 4	- 8	-15	-10	0	+ 5	- 5	- 3	- 4	+ 7	+11	+22	+27	+20	841	00 06 +41	07 57 -37	78
19	+ 2	+21	-10	-23	-23	-19	-30	-29	-21	- 5	- 2	- 8	- 8	0	0	+ 2	+ 2	+ 5	+ 8	+12	+18	+30	+40	+47	846	23 15 +47	06 46 -33	80
20	+28	+17	+ 3	- 4	-12	-12	-12	-13	-13	-12	- 9	-12	- 9	-14	-12	- 8	- 8	- 1	+ 4	+ 7	+ 9	+17	+26	+31	855	00 00 +36	13 41 -16	52
+21	+19	+ 7	- 9	-12	-13	-11	- 9	-12	-12	-13	- 9	- 9	- 7	- 4	- 2	- 1	+ 1	+ 3	+ 6	+ 6	+ 8	+16	+23	+28	860	23 36 +28	04 33 -13	41
+22	+12	+ 7	+ 2	- 5	-10	-10	-11	-11	-13	-13	-12	-11	- 8	- 6	- 3	- 5	- 2	+ 2	+ 3	+ 4	+10	+22	+29	+27	875	22 48 +41	09 00 -16	57
23																												
24	+ 1	-13	-16	-14	- 9	- 8	- 8	- 9	-11	-11	- 9	-14	-11	- 9	- 4	- 1	+ 1	+ 4	+ 6	+10	+16	+24	+36	+39	853	23 36 +37	01 48 -24	61
+25	+19	+12	- 1	- 9	-12	- 9	- 9	- 9	-12	-12	-12	- 9	- 7	- 7	- 6	- 4	- 3	+ 1	+ 6	+ 8	+14	+18	+23	+24	866	22 40 +26	04 51 -12	38
+26	+16	+10	+ 4	- 4	-11	-13	-14	-14	-14	-11	- 9	- 6	- 6	- 5	- 5	- 4	- 1	+ 4	+ 6	+ 7	+11	+14	+19	+19	868	22 45 +21	08 30 -16	37
27	+13	+11	+ 3	+ 1	- 1	+ 3	+ 6	+ 6	+ 8	+ 1	+ 1	- 2	+ 1	- 2	- 3	- 4	+ 3	- 2	- 9	-17	-21	-12	+ 6	- 2	866	00 00 +17	21 55 -23	40
28	-13	-40	-36	-29	-35	-25	-15	-11	- 8	- 5	- 3	- 2	0	0	+ 7	+ 5	+ 7	+15	+20	+25	+32	+40	+40	+42	843	23 51 +45	02 00 -53	98
29	+16	+ 8	- 1	- 5	-12	-16	-17	-15	-12	-11	-10	-10	-10	-11	-10	-10	- 7	- 5	0	+ 4	+38	+25	+33	+30	865	22 12 +55	06 30 -19	54
30	+21	+15	+ 8	- 3	- 4	- 3	- 2	+ 1	+ 1	+ 6	+ 3	+ 1	- 1	-7	-14	-16	-11	-14	-11	- 1	- 1	+ 3	+14	+21	872	23 33 +26	15 05 -21	47
31																												
MEAN.	+22	+ 8	- 6	-10	-12	-12	-16	-16	-16	-13	-11	-10	-10	- 8	- 4	- 2	- 1	+ 1	+ 4	+10	+16	+24	+30	+31	854			

200/1/41—14357]

Horizontal Intensity

G.M.T. (H = 34000γ + Mean + ...) May 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	+38	+27	+ 8	- 1	-12	-27	-42	-47	-44	-29	-22	-15	- 5	- 2	0	+ 7	+ 9	+10	+15	+20	+24	+28	+33	+32	848	00 30 +41	08 12 -54	95
2	+21	+17	+11	+ 4	+ 1	- 5	-13	- 9	- 6	-28	- 9	-19	-19	-26	- 7	+11	+ 9	+ 3	+ 2	+ 5	+10	+12	+15	+ 8	858	00 12 +22	11 54 -20	42
3	0	-10	-19	-14	-14	-16	-12	-12	-12	-13	-10	- 4	- 1	0	+ 1	+ 1	+ 3	+ 6	+ 7	+12	+16	+24	+31	+34	858	24 00 +37	02 17 -21	58
4	+24	+16	+ 6	- 7	- 6	+ 1	0	- 8	- 9	- 6	- 2	+ 4	+ 4	+ 4	+ 7	+ 5	0	+ 5	+ 6	- 1	- 6	- 8	-16	-21	868	00 00 +26	24 00 -25	51
5	+ 3	-19	-20	-22	-36	-41	-39	-39	-34	-18	-12	-10	+ 2	+ 8	+10	+14	+18	+22	+23	+29	+32	+38	+44	+44	834	22 28 +45	05 48 -44	89
6	+12	+ 2	- 6	-12	-13	-13	- 9	-14	-21	-23	-21	-16	-11	- 6	- 2	+ 4	+ 9	+ 6	+11	+19	+22	+27	+32	+32	860	23 00 +32	09 12 -26	58
7	+12	+ 5	- 3	- 3	- 8	-15	-15	-18	-18	-22	-21	- 9	- 6	- 8	- 5	- 4	0	+ 4	+15	+15	+22	+25	+27	+23	877	23 03 +28	09 32 -23	51
8	- 1	- 1	- 7	-15	-14	- 9	- 9	-10	-10	-15	-18	-19	-20	-19	-14	-10	- 1	+ 6	+12	+20	+27	+40	+49	+43	889	22 33 +52	12 30 -20	72
9																												
10																												
11																												
12	+ 9	+10	+ 5	- 3	- 8	- 6	- 4	- 4	- 4	- 4	- 3	- 3	- 4	- 4	- 7	- 8	- 4	- 1	- 3	+ 7	+10	+10	+12	+ 7	886	22 12 +15	04 30 - 8	23
13	+ 9	- 5	- 9	-15	-17	-14	-11	- 9	- 7	- 9	- 6	-11	- 9	- 9	-10	- 9	- 5	+ 1	+ 9	+18	+26	+32	(+35)	+30	885	21 56 +35	05 00 -19	54
14	+51	+50	+51	+51	+45	+22	-23	-54	-52	-69	-46	-32	-27	-24	-19	-14	- 9	- 1	+ 9	+18	+20	+23	+21	+15	858	04 38 +59	09 24 -75	134
15	+ 9	+ 8	- 1	-12	-17	-17	-22	-25	-27	-17	0	+ 5	+ 6	+ 3	+ 4	+ 5	+ 9	+14	+20	+10	+ 8	+15	+15	+ 4	861	18 45 +22	08 16 -28	50
16	-14	-19	-20	-24	-21	- 9	- 4	- 5	- 5	- 5	- 5	+ 3	+ 8	+ 6	+ 6	+ 9	+11	+14	+ 6	+ 6	+14	+15	+16	+16	875	22 26 +17	03 00 -24	41
17	+ 8	+ 1	+ 1	- 6	-10	-11	-14	-13	-11	-11	-11	- 6	- 4	- 4	- 4	- 3	- 3	0	+ 4	+11	+19	+22	+23	+19	875	22 15 +24	04 43 -14	38
18	+14	+ 4	+ 3	- 1	-11	-16	-18	-17	-17	-15	- 7	- 8	- 6	- 6	- 3	0	+ 2	+ 6	+10	+14	+15	+16	+17	+15	877	21 45 +44	06 00 -19	63
19	+10	+ 5	- 2	-10	-12	-12	-15	-21	-13	-15	-10	- 7	- 8	- 9	- 7	- 6	- 4	0	+ 8	+17	+23	+27	+29	+31	877	24 00 +33	07 31 -25	58
20	+18	+12	+ 6	- 4	- 8	-12	-19	-25	-27	-22	-14	-12	-12	- 9	- 2	+ 9	+18	+15	+ 5	+ 9	+19	+19	+19	+18	889	22 10 +22	08 00 -29	51
21	+28	+14	-10	- 5	- 3	- 6	- 5	- 6	- 5	- 5	- 5	- 8	- 5	- 5	-10	- 5	- 2	0	+ 4	+ 8	+ 7	+13	+ 7	+ 5	880	00 21 +30	02 24 -13	43
22																												
23	-15	-15	-15	-15	-12	- 9	-11	-11	- 8	-10	-10	- 7	- 9	- 6	- 5	- 2	+ 3	+10	+17	+19	+28	+27	+31	+29	868	22 18 +33	03 00 -17	50
24																												
25																												
26	- 1	- 4	- 6	- 5	- 2	- 1	- 2	- 4	- 4	- 5	- 7	- 9	- 9	-10	- 7	- 6	- 5	- 2	+ 7	+13	+16	+16	+19	+20	882	23 18 +21	11 05 -10	31
27																												
28	+14	+14	+ 8	+ 6	- 4	-36	-50	-45	-26	-11	- 9	- 9	- 6	+ 4	+ 1	+ 4	+ 6	+11	+18	+19	+21	+27	+26	+13	847	21 48 +31	07 02 -59	90
29																												
30																												
31	+ 8	0	(- 3)	- 6	-10	- 9	-10	-12	-15	-15	-15	-10	- 7	- 6	- 5	- 3	+ 1	+ 5	+ 8	(+ 8)	+15	+23	+26	+26	874	22 57 +28	05 06 -16	44
MEAN.	+12	+ 5	- 1	- 5	- 9	-12	-16	-19	-17	-17	-12	- 9	- 7	- 6	- 4	0	+ 3	+ 6	+10	+13	+18	+21	+23	+20	869			

[200/1/39—17185

Horizontal Intensity

G.M.T. (H = 34000γ + Mean + ...) June 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1																												
+ 2	+35	+25	+10	- 1	- 8	-13	-13	-13	-13	-11	- 9	- 8	- 8	- 8	- 8	- 6	- 3	- 1	0	- 1	+ 5	+ 8	+14	+17	890	00 00 +39	07 21 -13	52
3	+17	+13	+ 8	+ 6	+ 3	+ 3	+ 3	0	- 5	- 5	- 5	- 2	- 8	-12	-12	-12	-12	- 8	- 2	- 4	- 5	+ 4	+11	+16	889	00 10 +18	15 01 -17	35
4	+18	+ 8	+ 6	- 5	-14	-17	-17	-14	-13	-11	- 9	- 7	- 4	- 2	+ 1	+ 2	+ 3	+ 6	+ 6	+ 8	+11	+16	+11	+ 7	881	00 00 +22	07 02 -35	57
5																												
6																												
+ 7																												
8																												
+ 9																												
+10	+ 9	+ 5	- 1	- 6	-11	-11	- 9	- 8	- 7	- 8	- 9	- 9	- 9	- 9	- 9	- 8	- 6	- 1	+ 5	+13	+17	+22	+26	(+27)	895		05 09 -12	
11																												
12	-12	-24	-22	-20	-17	-12	- 9	-17	-15	-12	-10	+ 3	- 2	- 5	- 6	- 1	+14	+17	+22	+25	+29	+28	+25	+21	861	20 42 +30	10 12 -23	53
13	+10	- 6	-18	-16	-12	- 6	-11	-15	-16	- 3	+ 6	+ 5	+ 6	+ 6	+ 3	+ 1	+ 1	+ 9	+15	+11	+ 1	+13	+11	+ 5	865	21 54 +18	08 09 -19	37
14	0	- 3	- 7	- 9	-10	-17	- 9	-13	- 9	- 3	- 2	+ 6	- 5	+ 9	+ 5	0	0	+ 3	+ 6	(+ 7)	(+ 7)	(+10)	+13	+16	864	24 00 +17	05 51 -25	42
15	+14	+ 8	- 8	-20	-17	-15	- 9	-12	-15	-12	- 5	+ 5	+ 4	0	0	0	+ 1	+ 3	+ 5	+13	+20	+20	+14	+ 9	867	21 03 +23	03 30 -22	45
16	+ 2	+ 7	0	- 6	-12	-13	-13	-13	- 8	- 8	-11	-10	- 8	- 6	- 1	+ 5	+ 8	+14	+20	+ 8	+12	+13	+14	+14	873	18 31 +26	07 04 -16	42
17	+20	+25	+18	+ 3	-11	-17	-16	-16	-23	-32	-26	-17	-15	- 8	- 8	- 7	- 6	- 3	+ 5	+18	+21	+27	+33	+30	873	22 51 +35	09 57 -36	71
18	+19	+ 6	- 3	- 9	-11	-11	- 9	-16	-14	-10	-14	-11	- 6	- 5	- 4	- 2	- 1	+ 1	+ 4	+12	+16	+20	+24	+28	876	24 00 +29	07 13 -16	45
19	+30	+25	+24	+16	+ 8	+ 8	+ 1	+ 3	+ 1	+ 3	+ 6	+ 3	- 7	-13	- 9	- 6	- 9	-19	-17	-17	-11	- 4	- 3	- 2	874	00 33 +32	17 20 -22	54
20	+13	+14	+ 8	- 6	-21	-18	-16	-13	-23	-19	-21	-18	-16	-11	- 8	- 2	- 1	+ 4	+11	+15	+22	+32	+39	+37	858	22 54 +40	08 47 -26	66
21	+19	+ 6	- 5	-12	-17	-19	-13	- 7	- 5	- 7	- 8	- 9	- 9	- 8	- 7	- 4	- 2	+ 2	+ 7	+11	+16	+21	+27	+28	870	22 48 +29	05 26 -22	51
+22	+13	+ 6	0	- 4	- 7	- 4	- 7	- 9	-11	-12	-14	-14	-14	-12	-11	- 8	- 4	+ 1	+10	+14	+19	+26	+29	+22	880	22 05 +31	12 42 -15	46
23	+10	+ 7	+ 7	+ 7	+10	+ 5	+ 2	- 1	+ 2	- 5	- 8	-15	-13	-11	- 7	- 3	- 5	- 8	+ 1	+ 2	+ 4	+ 6	+ 6	- 1	889	04 24 +12	13 30 -16	28
24	+ 7	-13	-23	-23	-13	-10	- 5	- 5	-11	- 9	- 8	- 9	- 8	- 5	- 5	+ 5	+ 8	+11	+17	(+22)	+24	+24	+22	+ 7	871	21 48 +25	03 09 -25	50
25	+ 3	- 8	-16	-21	-21	-23	-16	- 7	- 3	- 1	- 1	0	- 1	- 1	+ 1	+ 7	+ 7	+12	+17	+21	+19	+15	+ 8	+ 2	864	19 21 +22	05 23 -26	48
26	-10	- 3	+ 1	- 3	- 8	-13	- 9	- 8	-10	-12	-10	- 8	- 6	- 6	- 3	+ 2	+ 2	+ 2	+10	+17	+20	+20	+23	+20	877	22 36 +25	05 30 -15	40
27	+ 4	- 3	- 9	-12	-16	-13	-10	-12	-10	- 7	- 7	- 7	- 6	- 7	- 6	- 4	- 3	+ 4	+12	+20	+20	+19	+22	+27	885	23 30 +31	04 25 -18	49
28	+31	+24	+15	+ 3	- 5	- 7	- 8	-16	-18	-15	-10	- 9	-10	-13	-15	-15	- 1	+ 3	+ 4	+13	+13	+11	+12	+13	879	00 12 +35	08 18 -22	57
29	+17	+ 2	-12	-23	-29	-27	-31	-24	-17	-19	-13	- 8	0	0	+ 1	+ 3	+ 6	+11	+17	+24	+27	+28	+32	+24	873	22 18 +37	06 36 -34	71
30																												
31																												
MEAN.	+12	+ 6	- 1	- 7	-11	-11	-10	-11	-11	-10	- 9	- 6	- 7	- 6	- 5	- 2	0	+ 3	+ 8	+11	+14	+17	+19	+17	875			

Horizontal Intensity

G.M.T. (H = 34000γ + Mean + ...) July 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	+29	+17	+ 4	- 3	- 6	-12	-13	-36	-26	-18	-12	-17	-11	- 7	- 5	- 3	0	+ 4	+ 8	+10	+19	+23	+24	+23	867	00 06 +32	07 42 -40	72
+ 2	+12	+ 7	- 1	-11	-15	-14	-15	-14	-10	- 8	- 5	- 2	- 3	- 4	- 1	+ 1	0	+ 3	+ 8	+ 8	+ 8	+ 9	+18	+23	877	23 32 +24	07 04 -16	40
+ 3	+18	+ 7	+ 3	0	- 1	- 5	-15	-16	-15	-15	- 9	- 5	- 5	- 4	- 4	- 2	0	+ 1	+ 3	+ 4	+ 8	+13	+19	+20	882	23 11 +23	09 53 -17	40
+ 4	+12	+ 5	- 1	- 4	- 5	- 6	- 7	- 9	-10	-12	-12	-12	- 9	- 7	- 4	- 2	+ 1	+ 3	+ 8	+11	+12	+13	+16	+19	884	24 00 +22	10 06 -13	35
+ 5																												
6	0	0	- 1	- 3	- 8	-11	-12	-12	-12	-11	- 8	- 3	- 1	+ 3	+ 2	- 1	- 1	+ 2	+ 9	+11	+13	+14	+17	+16	893	23 00 +17	08 42 -16	33
7	+15	+16	+11	- 1	-12	-14	-14	-16	-17	-16	-16	-19	-14	-11	- 9	- 9	- 8	- 3	+12	+24	+26	+28	+29	+20	892	22 33 +32	11 42 -21	53
8	+46	+35	+20	+15	+ 3	- 5	-10	-18	-34	-34	-20	-27	-25	-16	- 6	- 5	- 2	0	+10	+14	+11	+13	+10	+13	858	00 00 +45	08 46 -49	94
9	+ 6	- 9	-17	-11	-13	- 7	- 7	- 8	- 9	- 9	- 6	- 7	- 7	- 7	- 6	+ 1	+ 1	- 2	+15	+26	+31	+24	+13	+ 4	865	20 41 +34	02 25 -24	58
10																												
11																												
12																												
13	+ 9	+ 8	+ 7	+ 3	0	- 8	- 6	- 6	-14	-13	-11	- 7	- 6	- 4	- 4	- 6	- 3	+ 2	+ 4	+ 7	+ 5	+ 8	+10	+14	860	23 41 +17	08 45 -17	34
14	+ 7	+ 4	- 3	- 8	-11	-16	-19	-14	-19	-13	-12	-12	- 7	- 7	- 3	- 1	+ 1	+ 6	+12	+19	+19	+28	+27	+18	866	21 36 +31	05 49 -23	54
15	+21	+19	+11	- 5	-10	-19	-22	-22	-24	- 1	- 5	- 4	- 3	- 1	+11	+ 5	+ 1	- 1	+ 6	+16	+11	+ 4	+ 9	+ 7	863	00 31 +21	08 40 -27	48
16																												
17	+11	+ 8	+ 9	+ 1	- 7	-22	-17	-19	-17	-17	-13	+ 1	- 2	- 3	- 2	- 4	- 3	+ 3	+ 9	+16	+19	+16	+18	+23	861	23 54 +22	05 37 -24	46
18	+ 9	- 4	- 6	- 4	- 4	- 6	- 9	-16	-18	-16	-18	- 6	- 9	- 6	- 4	- 3	- 1	- 1	+ 4	+11	+16	+22	+30	+35	869	23 06 +36	10 19 -19	55
+ 19	+18	+ 7	- 1	- 5	- 6	- 8	-10	-10	- 9	- 9	-10	-12	-16	-15	-10	- 5	0	+ 4	+ 9	+13	+15	+18	+20	+20	880	22 39 +21	12 31 -17	38
20																												
21																												
22	+17	+12	+ 5	- 1	- 5	- 3	- 8	-11	-13	-13	-18	-16	-11	- 6	- 3	- 3	- 1	+ 2	-16	+14	+19	+22	+24	+19	876	22 18 +25	11 06 -18	43
23	+ 4	+ 6	+ 4	- 3	- 8	- 9	-19	-21	-14	-10	- 6	- 6	- 6	- 6	- 6	+ 3	+ 8	+ 4	+ 6	+14	+13	+14	+11	+16	879	23 54 +21	07 00 -26	47
24	+20	+15	+ 8	- 6	-15	-19	-13	- 8	-11	- 8	- 8	- 6	- 3	- 5	- 3	+ 2	+ 4	+ 7	+ 9	+12	+14	+13	+ 9	+ 2	877	00 04 +23	05 10 -23	46
25	+13	0	- 5	-10	-18	-19	-17	-27	-24	-17	-22	- 7	- 5	- 3	+ 3	- 1	0	+ 5	+13	+15	+28	+38	+40	+24	856	22 17 +43	10 54 -32	75
26	+ 4	+ 3	- 2	-12	-15	-16	-17	-14	-12	- 8	- 7	- 6	-10	- 5	- 2	- 2	+ 2	+10	+20	+34	+35	+23	0	0	876	20 34 +40	06 48 -20	60
27	+ 1	- 4	- 6	-17	-24	-22	-22	- 2	- 7	- 9	- 4	- 5	+ 6	+ 8	+ 6	+ 6	+ 7	+ 6	+12	+26	+18	+15	+13	- 2	863	19 27 +29	06 28 -29	58
28	- 1	+ 1	- 1	-16	-21	-14	-19	-19	-11	- 8	+ 1	- 1	- 4	- 4	- 4	- 1	+ 1	+ 1	+ 9	+16	+16	+26	+29	+25	866	22 48 +29	04 48 -26	55
29																												
30	+16	+13	- 3	-16	-14	-12	-11	-14	-21	-17	- 3	- 7	- 4	+ 6	+ 3	+ 4	+ 4	+ 3	+ 3	+ 1	+ 7	+14	+18	+18	874	22 22 +21	09 16 -24	45
31	+ 9	+ 2	0	- 2	- 6	-13	-14	-16	-13	- 5	- 6	- 6	- 5	- 6	- 3	- 1	+ 1	+ 2	- 2	+ 2	+ 4	+14	+25	+27	878	23 23 +29	07 21 -18	47
MEAN.	+13	+ 7	+ 2	- 5	-10	-12	-14	-15	-16	-12	-10	- 8	- 7	- 5	- 2	- 1	+ 1	+ 3	+ 8	+14	+16	+18	+19	+17	872			

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[illegible]000/3/42—18267

Horizontal Intensity

(H = 34000γ + Mean + ...)

G.M.T. | August 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H.	M.	γ	Minimum. H.	M.	γ	Range.
1																																
2																																
3	+13	0	-8	-7	-6	-7	-5	-5	-7	-5	-5	-3	-2	0	+3	0	+3	+3	+5	+4	+8	+10	+13	+10	872	22	39	+15	02	38	-12	27
+ 4	+4	+4	+1	+1	-4	-4	-9	-6	-6	-6	-6	-6	-7	-6	-6	-4	+1	+4	+6	+11	+12	+14	+14	+5	876	21	07	+14	06	45	-12	26
5	-5	-8	-4	-8	-10	-3	-5	-3	-5	-8	-9	-10	-6	-8	-8	-6	-5	-2	+7	+20	+23	+25	+25	+20	880	22	19	+27	11	47	-13	40
6	+18	+13	+8	+4	0	+3	0	-5	-2	0	-5	-2	-2	-8	-10	-20	-9	-7	0	+3	+6	+10	+8	-2	882	21	55	+13	16	00	-23	36
7	+5	-5	-15	-12	-7	-2	-12	0	-6	-19	-24	-22	-18	-12	-8	-5	-2	+2	+15	+30	+36	+30	+32	+25	861	20	15	+37	10	55	-28	65
+ 8	+8	+2	-8	-14	-12	-10	-10	-8	-8	-8	-5	-7	-8	-8	-7	-5	-3	+2	+10	+17	+22	+22	+17	+17	871	20	35	+23	6	60	-16	39
9	+9	+8	-1	-11	-11	-9	-6	-1	-1	+1	+1	-1	-6	-12	-19	-23	-21	-16	-4	+14	+19	+26	+36	+40	882	23	06	+43	15	30	-23	66
10	+42	+19	+9	+2	-10	-21	-18	-23	-20	-10	-9	-8	-18	-8	+2	-8	+4	+4	+4	+17	+14	+12	+12	+10	869	00	00	+48	05	53	-27	75
11	+10	-1	-6	-16	-16	-18	-28	-20	-3	-3	-11	+4	-3	-11	-8	-8	-6	-1	+11	+24	+29	+31	+31	+30	862	23	21	+34	07	15	-30	64
12																																
+ 13																																
14	+29	+19	+10	-1	-8	-9	-8	-6	-10	-13	-20	-12	-11	-11	-9	-7	-6	-3	+3	+9	+12	+14	+19	+19	874	00	00	+34	10	49	-20	54
15	+7	-2	-9	-15	-15	-13	-13	-10	-10	-10	-5	-5	-5	-3	0	0	0	+5	+20	+25	+23	+12	+10	+12	881	20	13	+36	04	22	-16	52
16	+40	+40	+22	-17	-48	-79	-55	-39	-27	-24	-13	-10	-5	0	+5	+12	+15	+22	+35	+37	+19	+30	+27	+12	856	01	28	+43	05	14	-82	125
17	-9	-16	-19	-16	-21	-21	-9	-10	-4	-14	-19	-4	+8	+1	+1	+3	+3	+8	+13	+23	+25	+21	+28	+25	858	23	16	+29	05	00	-27	56
18	+15	+9	+3	+3	+3	-4	-14	-26	-30	+1	-10	-14	-4	0	+1	-2	+3	+8	+15	+15	+15	+8	+5	+2	858	18	55	+20	08	42	-34	54
19	-6	-3	-6	-6	-2	0	-3	-16	-3	+1	-11	-8	+6	+1	+1	+4	+4	+13	+6	+11	+16	+15	-3	-3	863	08	56	+20	07	51	-24	44
20	+4	-8	-30	-20	-15	-9	-8	-15	-3	-10	+1	+2	-8	-1	+2	+2	+6	+11	+14	+17	+17	+19	+18	+7	865	21	06	+19	02	30	-34	53
21	+1	-1	-7	-11	-8	-11	-1	-8	-8	-6	-7	-6	-8	-14	-6	-1	+1	+6	+11	+16	+16	+19	+16	+9	863	21	05	+19	05	48	-16	35
22	-13	-17	-17	-13	-14	-10	-10	-6	-8	-6	-3	-2	-4	-6	-3	-1	+2	+7	+17	+27	+32	+29	+14	+6	870	21	00	+32	04	37	-17	49
23	+9	-13	-21	-25	-13	-8	0	+4	+6	+9	+1	+2	+6	+9	+13	+11	+18	+11	+9	+1	+4	-1	-23	-10	851	16	30	+21	03	36	-32	53
24	0	-7	-19	-24	-22	-12	-8	-11	-5	-2	-2	+1	0	+3	0	+1	0	+8	+17	+14	+11	+15	+20	+21	852	22	24	+22	04	21	-30	52
25	+13	+12	0	-15	-34	-22	-26	-17	-8	0	-5	-5	0	-3	-5	-4	-3	+2	+8	+17	+22	+17	+22	+29	855	23	42	+29	04	36	-39	68
26	+19	+6	-7	-8	-13	-13	-8	-11	-6	-6	-6	-6	-8	-8	-6	-6	-6	-1	+8	+15	+21	+21	+17	+11	865	21	15	+24	05	13	-23	47
27	+3	+5	+1	-6	-8	-12	-18	-8	-16	-11	-4	-11	-8	-7	-6	-10	-11	-7	+1	+12	+21	+31	+37	+36	868	22	39	+39	06	13	-21	60
+ 28	+27	+19	+4	-11	-18	-18	-14	-15	-13	-15	-18	-18	-15	-13	-13	-11	-15	-7	+4	+19	+29	+34	+34	+37	875	24	00	+37	05	09	-20	57
+ 29	+31	+21	+24	-14	-16	-14	-16	-18	-15	-11	-11	-10	-9	-9	-9	-9	-7	-4	+4	+16	+21	+24	+17	+6	878	00	00	+34	08	00	-18	52
30	-6	-17	-24	-23	-19	-16	-18	-20	-20	-18	-13	-13	-8	-6	0	+9	+19	+32	+30	+22	+28	+32	+32	+24	880	18	12	+42	02	21	-26	68
31	+36	+52	+22	+8	-6	-14	-23	-33	-29	-21	-18	-21	-23	-11	+1	-4	-6	-1	+8	+16	+18	+22	+21	+16	862	00	00	+39	08	18	-37	76
MEAN.	+11	+4	-4	-10	-13	-13	-13	-12	-10	-8	-9	-7	-6	-6	-4	-3	-1	+4	+10	+17	+19	+20	+18	+15	868							

Horizontal Intensity

G.M.T. (H = 34000γ + Mean + ...) September 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H.	M.	γ	Minimum. H.	M.	γ	Range.
1	+ 7	+ 3	+ 1	- 4	- 4	- 3	- 4	- 8	- 9	- 9	- 7	+13	+ 8	- 2	-16	-21	-21	-18	- 7	+ 8	+16	+25	+30	+28	865	23	00	+30	16	21	-24	54
2	+27	+19	+ 3	+ 2	0	-13	-20	-37	-46	-34	-32	-22	-18	-13	- 7	0	+ 5	+11	+22	+32	+35	+35	+32	+30	868	21	48	+37	08	39	-49	86
3	+27	+17	+ 7	- 1	-12	-13	-13	-15	-20	-24	-15	-11	-13	-11	- 8	- 3	- 1	+ 2	+ 7	+ 9	+17	+24	+27	+22	871	00	00	+29	09	40	-25	54
4	+11	+ 1	- 6	- 6	- 4	- 2	- 1	+ 1	- 1	- 9	- 9	-16	-16	- 4	+ 9	+14	+ 9	- 1	+ 1	+ 6	+10	+11	+ 6	+ 4	879	00	00	+13	12	37	-19	32
5	+13	+ 5	- 2	- 8	-18	-16	- 9	- 4	- 4	- 9	-20	-21	-19	-14	--9	- 4	+ 3	+ 8	+16	+24	+21	+20	+20	+15	865	19	39	+25	10	48	-25	50
6	+16	+ 4	- 3	- 7	- 8	- 3	- 8	-17	- 8	- 3	- 6	- 6	- 6	- 6	+ 2	- 6	- 4	- 1	+ 6	+16	+21	+26	+ 6	+ 4	859	21	30	+31	07	44	-20	51
7																																
8	+21	+11	- 6	-19	-20	-16	-23	-29	-26	-18	-10	- 3	- 6	- 8	- 8	- 6	- 3	+ 1	+11	+24	+33	+34	+34	+32	864	21	00	+35	07	56	-30	65
9	+14	+ 6	+ 2	- 6	-13	-15	- 6	-13	-13	-16	-18	- 1	- 6	- 9	- 9	- 9	- 6	- 4	+ 6	+16	+24	+26	+26	+26	874	23	01	+27	11	00	-17	44
10	+23	+14	+ 2	- 9	- 8	- 5	-10	-22	-27	-29	-27	-25	-21	-20	-17	-12	- 8	- 3	+10	+26	+37	+45	+47	+45	873	22	06	+50	09	54	-32	82
11	+29	+14	+ 3	- 7	-15	-18	-19	-15	-12	-15	-19	-20	-10	- 5	+ 4	+14	+13	+ 6	+14	+25	+20	+23	+13	-22	880	00	00	+35	24	00	-39	74
12	- 4	-10	- 8	-35	-43	-29	-47	-46	-34	-34	+ 5	+ 6	- 1	+ 6	+11	+11	+ 9	+19	+28	+36	+38	+38	+43	+43	826	22	25	+50	07	04	-64	114
13	- 2	-10	-17	-19	-19	-16	-21	-16	-14	- 4	- 4	- 4	- 4	- 4	- 2	+ 1	+ 8	+11	+15	+15	+25	+38	+27	+23	856	21	46	+40	06	26	-24	64
14	+19	+ 5	-10	-15	-11	-15	-15	- 7	-10	- 6	0	+ 6	+ 2	0	0	+ 2	+ 2	+ 5	+10	+ 2	+ 2	+ 7	+ 8	+ 7	852	00	01	+28	02	50	-23	51
15																																
16																																
17	+ 1	- 3	+ 4	+ 6	+ 9	- 1	-16	-18	-11	- 7	+11	- 4	- 6	-13	- 4	+ 1	+ 3	- 4	- 6	+11	+21	+21	+ 1	+ 4	853	21	23	+26	06	50	-22	48
18	- 2	- 7	-17	-14	- 9	- 2	- 5	- 5	- 9	- 5	+ 3	- 2	- 2	- 2	+ 3	- 2	+ 3	0	- 5	- 2	+15	+22	+20	+21	854	22	12	+30	02	53	-24	54
19	+ 2	- 5	-15	-25	-17	-15	-27	-25	-17	- 8	- 3	- 3	- 8	+ 8	+ 9	+ 5	+ 7	+ 7	+12	+19	+24	+24	+23	+22	857	23	01	+27	03	12	-33	60
20	+ 7	- 5	- 5	- 7	-11	- 9	- 7	- 5	- 7	- 6	- 2	- 2	+12	0	- 5	- 5	- 2	- 5	+ 1	+ 7	+15	+20	+20	+ 5	864	22	30	+25	04	58	-15	40
21	+11	- 3	-10	-15	-15	-30	-16	- 7	-10	0	-15	- 8	- 4	0	- 3	- 3	+ 2	+ 4	+ 2	+ 7	+19	+29	+34	+30	855	22	43	+34	05	39	-35	69
22	+19	+ 7	+ 2	-11	-18	-18	-18	-13	-11	-15	+ 2	- 3	- 1	- 6	- 6	- 3	- 2	- 6	0	+17	+25	+30	+28	+11	860	22	00	+34	04	11	-25	59
23	+ 1	-10	-18	-14	-10	-11	-14	-12	-11	-10	- 4	- 7	- 7	- 7	- 2	0	+ 2	+ 5	+10	+20	+25	+27	+31	+25	864	22	27	+32	02	35	-19	51
24	+ 6	- 3	- 8	-11	-11	-10	-10	- 8	- 7	- 7	- 7	- 6	- 4	- 4	- 5	- 5	- 3	0	+ 6	+10	+16	+27	+26	+25	866	21	41	+30	04	00	-13	43
+25	+13	+ 3	- 4	-10	-14	-15	-11	- 9	- 8	- 7	- 9	- 7	- 4	- 4	- 7	- 5	- 4	- 5	- 2	+ 8	+15	+25	+28	+24	874	21	54	+28	05	30	-16	44
+26	+20	+18	+12	+ 5	- 5	- 9	-11	-10	-12	-12	-15	-17	-18	-14	-14	-14	-16	-11	- 7	+ 5	+18	+30	+38	+40	877	23	20	+43	12	14	-19	62
27	+36	+30	+20	+ 7	- 4	-17	-24	-23	-21	-21	-21	-13	- 4	- 5	- 7	- 9	- 7	- 4	- 1	+ 9	+15	+24	+24	+24	876	00	09	+40	06	54	-27	67
+28	+16	+ 2	- 7	-12	-12	-11	-12	-13	-13	-12	-11	-12	- 7	- 6	- 5	- 5	- 2	0	+ 5	+10	+20	+25	+31	+33	877	22	49	+35	07	09	-14	49
+29	+16	+ 6	- 2	- 7	- 7	- 8	-10	-12	-13	-12	- 9	-14	-15	-13	-14	-10	- 7	- 4	+ 3	+11	+21	+32	+38	+36	884	22	57	+40	12	15	-19	59
+30																																
31																																
MEAN.	+13	+ 4	- 3	- 9	-12	-12	-15	-15	-14	-13	- 9	- 8	- 7	- 6	- 4	- 3	- 1	0	+ 6	+14	+21	+26	+25	+21	865							

Horizontal Intensity

G.M.T. (H = 34000γ + Mean + ...) October 1942

DAY.		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H.	M.	γ	Minimum. H.	M.	γ	Range.
+1	D	+25	+15	+ 7	- 3	- 9	-10	-13	-13	-15	-15	-14	-13	-13	-12	-10	- 4	0	0	- 1	+ 3	+12	+25	+30	+22	884	22	45	+31	10	00	-15	46
2																																	
3		+10	- 9	-23	-24	-43	-24	-31	-14	-19	-13	0	+10	+10	+18	+11	+10	+10	+ 8	+ 8	+15	+20	+26	+27	+25	829	21	27	+30	04	18	-62	92
4		+ 8	+ 9	+ 7	+ 7	-10	- 8	-17	- 7	-10	-15	- 9	+ 7	+10	+10	+ 3	- 2	+ 3	- 1	+ 3	- 1	+ 4	+10	+ 5	+ 3	844	13	00	+15	06	18	-19	34
5		+ 2	+ 2	- 8	-18	-15	- 8	- 8	-13	0	+ 7	+ 1	- 5	-13	- 5	0	0	- 3	+ 3	+ 7	+12	+ 9	+12	+22	+17	847	22	35	+20	05	00	-22	42
6		0	- 3	- 8	- 6	- 6	- 8	- 9	-12	- 8	- 8	- 8	- 8	- 8	- 8	- 8	- 5	0	+ 2	+ 7	+12	+14	+17	+27	+26	859	22	51	+30	08	06	-12	42
7		+23	- 5	-12	-10	-13	-20	-10	-14	-11	-11	-12	-12	- 5	+ 5	- 5	- 3	+ 1	+ 4	+10	+16	+20	+25	+25	+23	854	00	00	+30	05	48	-21	51
8		+21	+15	+ 3	- 4	- 4	- 7	- 9	-11	-16	-20	-21	-21	-19	-16	- 7	- 1	+ 1	+ 1	+ 1	+ 8	+18	+22	+31	+37	858	23	51	+38	09	38	-21	59
+9																																	
10		+20	+11	+ 1	- 6	- 8	-11	- 9	- 4	- 9	- 9	-14	-10	- 9	- 7	- 8	- 4	0	+ 3	+ 1	+ 6	+16	+22	+19	+20	890	21	23	+26	10	12	-16	42
11		+22	+15	- 2	-13	-18	-20	-22	-20	-18	-15	-13	-18	-17	- 3	- 8	- 5	+ 2	+13	+17	+30	+ 7	+20	+27	+32	884	23	32	+36	05	41	-23	59
12		+44	+34	+ 4	- 9	-11	-11	- 6	- 6	+ 1	-11	+16	+11	- 9	-11	-16	- 9	-16	-21	-20	- 6	+ 4	+36	+ 9	+ 1	865	00	02	+51	09	50	-25	76
13																																	
14																																	
15		+24	+17	+ 9	- 1	-18	-15	-23	-18	-10	- 6	- 6	- 6	- 2	- 1	- 3	- 1	- 3	- 3	- 6	+ 7	+15	+24	+14	+19	857	21	47	+29	06	28	-28	57
16		+17	+ 5	- 4	- 6	- 8	-13	-11	-15	-15	- 8	- 1	-11	- 6	+ 2	- 1	- 1	+ 2	+ 2	- 1	+ 7	+ 7	+14	+19	+18	862	22	39	+22	08	25	-20	42
17		+14	+11	+ 5	- 2	+ 4	-12	- 7	-16	-10	- 8	-12	-13	- 8	- 7	- 7	- 7	- 6	- 2	+ 5	+13	+13	+20	+23	+20	866	22	17	+25	04	51	-26	51
18		+16	+11	- 2	- 9	-17	-12	- 9	- 7	-12	-17	-12	- 7	- 6	- 2	- 4	- 6	- 7	- 4	- 2	+13	+18	+21	+28	+26	868	22	25	+31	04	21	-19	50
19																																	
20		+ 3	+ 1	- 2	- 7	-10	- 9	- 4	- 4	- 7	- 7	-11	- 7	+ 1	+ 1	+ 3	- 2	+ 2	-11	-15	- 4	+13	+23	+26	+26	858	23	26	+28	18	12	-19	47
21		+18	+10	+ 3	- 3	-10	-10	- 7	- 5	+ 1	0	- 2	- 2	- 7	- 7	- 2	- 2	- 2	- 1	0	+ 3	+ 8	+ 5	+ 5	+ 3	861	00	00	+23	13	00	-12	35
+22		- 5	-10	-15	-21	-21	-16	-13	-11	-10	- 8	- 9	-11	- 4	- 5	- 9	- 8	- 8	- 3	+ 5	+22	+35	+43	+43	+38	869	21	33	+45	04	03	-22	67
+23		+26	+16	+ 8	+ 2	- 6	-11	-12	-12	-14	-15	-13	- 9	- 9	- 9	- 8	- 7	- 6	- 7	+ 1	+ 8	+16	+22	+23	+28	873	00	00	+29	09	40	-17	46
+24		+15	+ 6	- 6	-14	-19	-19	-16	-16	-14	-11	- 6	- 6	- 5	- 4	- 6	- 9	- 9	- 4	- 1	+ 6	+19	+31	+36	+40	885	23	45	+41	05	06	-19	60
25		+55	+37	+18	+ 1	-14	-26	-41	-48	-36	-17	- 4	- 4	- 9	- 4	- 4	- 4	- 4	- 7	+ 1	+11	+18	+26	+26	+26	868	01	00	+57	07	27	-51	108
26		+14	+ 4	- 8	-16	-23	-26	-24	-16	-16	-16	-16	-16	-14	-12	-12	-10	-10	- 6	+ 3	+17	+52	+42	+52	+46	877	22	33	+55	05	11	-28	83
27		+31	+18	+ 8	-61	-14	-17	-14	-17	-17	-13	-12	-12	-12	-12	- 7	- 7	- 4	+ 1	+ 7	+22	+31	+34	+32	+32	878	00	00	+38	08	27	-19	57
28		+58	+50	+39	+30	+28	+25	+23	+23	+23	+18	+18	+23	+15	+ 8	+ 1	-24	- 4	-26	-38	-38	-52	-67	-67	-62	846	00	00	+60	21	39	-75	135
29		-18	-12	-13	-25	-25	-21	+ 1	-13	-15	-15	+11	+18	+1	+ 8	+ 5	+16	+16	+13	+14	+ 3	+12	+11	+13	+21	804	11	37	+25	08	20	-48	73
30		+ 3	+ 7	- 5	- 9	-17	-21	- 9	-18	- 2	+10	- 2	- 7	+ 3	+ 4	+ 8	+10	+ 3	- 2	- 2	- 2	+ 5	+ 5	+13	+18	829	24	00	+21	05	22	-28	49
31		+ 7	- 5	- 2	-14	-10	-17	-19	-10	-10	-12	- 5	+ 8	+ 3	- 5	- 5	+ 2	+ 3	- 1	- 8	+ 3	+10	+15	+32	+42	839	23	48	+45	06	24	-30	75
MEAN.		+17	+10	0	- 9	-12	-13	-12	-12	-10	- 9	- 6	- 5	- 5	- 3	- 4	- 3	- 2	- 2	0	+ 7	+13	+19	+21	+21	860							

200/1/41—14357

Horizontal Intensity

G.M.T. (H = 34000γ + Mean + ...) November 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	+29	+23	+14	+ 1	- 9	-15	-21	-21	-11	-21	-13	- 4	-11	-13	-11	- 8	-11	- 6	- 4	+ 6	+19	+26	+31	+33	855	23 39 +34	07 21 -27	61
2																												
3																												
4	+25	+15	+ 8	- 5	- 7	- 5	- 7	- 7	-18	-22	-24	-12	-15	-12	- 9	- 5	- 1	0	+ 2	+12	+20	+23	+23	+20	856	00 00 +30	10 58 -27	57
5	+ 1	- 3	- 4	- 9	-13	-12	- 8	- 7	- 9	- 9	-12	- 9	- 9	-10	-17	-16	-12	- 9	+ 8	+25	+37	+40	+38	+31	873	21 54 +43	14 50 -19	62
6	+27	+ 7	- 9	-13	-10	- 8	- 6	- 5	- 6	- 9	- 9	- 9	- 8	- 8	- 8	- 5	- 2	- 3	- 3	+ 6	+17	+17	+21	+25	864	23 42 +26	03 00 -15	41
7	+15	+ 5	- 4	- 6	-10	-17	-18	-20	-17	-20	-15	-13	-13	-11	-11	-10	- 7	- 5	0	+16	+28	+38	+44	+45	871	23 32 +47	06 45 -23	70
8	+29	+18	+13	+ 9	+ 6	+ 7	- 5	- 9	-23	-16	-20	-24	-24	-19	-14	- 8	- 8	- 5	+ 2	+14	+13	+15	+23	+23	878	00 09 +33	08 51 -29	62
+ 9	+20	+10	0	- 8	-17	-21	-20	-20	-17	-17	-15	-12	-10	- 7	-10	- 8	- 6	- 2	+ 2	+ 9	+23	+38	+47	+48	871	23 28 +49	05 21 -23	72
10	+32	+30	+18	+ 4	- 8	-15	-17	-13	-11	- 4	+ 5	+ 3	+ 2	- 8	-13	-10	-10	-13	-12	- 3	0	+ 2	+12	+17	879	23 37 +17	14 01 -18	35
11	+16	+ 7	+ 2	0	- 8	- 9	-10	- 9	-10	-10	- 9	- 5	+ 4	+ 6	+ 1	- 1	- 2	- 4	- 6	- 4	+ 4	+10	+21	+21	870	22 39 +26	09 31 -11	37
12	+22	+17	+ 7	- 3	- 8	-11	- 8	-10	-13	-11	- 9	- 8	- 8	- 5	- 4	- 1	0	0	- 3	0	+ 7	+13	+21	+19	869	22 32 +23	08 00 -15	38
13	+ 8	+ 9	+ 7	+ 1	+ 4	- 4	- 7	- 9	- 9	- 9	- 8	- 4	- 2	- 4	- 3	+ 1	- 8	- 9	- 6	+ 1	+ 3	+ 8	+18	+22	873	23 12 +26	08 00 -12	38
14	+24	+13	+ 3	- 7	- 8	- 7	-15	-22	-12	-10	-14	-12	- 6	- 2	- 2	- 2	+ 1	+ 1	- 1	+ 8	+10	+11	+15	+23	866	00,18 +26	07 58 -27	53
15	+12	+ 5	- 4	-10	-11	-10	- 8	-10	-11	-10	-10	-13	-13	-12	- 8	- 8	- 3	- 3	- 2	+ 4	+17	+32	+37	+35	874	23 06 +42	13 06 -13	55
+ 16	+29	+26	+14	+ 2	- 7	-11	-11	-10	-11	-14	-15	-14	-14	-14	-11	-10	- 9	- 6	- 6	+ 1	+ 9	+21	+29	+30	875	23 09 +34	10 47 -15	49
+ 17	+26	+20	+10	+ 1	- 1	- 3	- 6	-10	-12	-14	-15	-10	- 1	-10	-11	- 7	- 7	-10	- 8	0	+ 6	+15	+25	+20	871	00 09 +28	10 24 -15	43
18	+13	+ 1	-11	-12	-12	- 9	- 9	- 7	- 8	-19	-15	-12	- 9	- 7	- 7	+ 1	+ 3	+ 3	+ 1	+ 3	+11	+26	+38	+38	873	22 46 +43	09 27 -22	65
+ 19	+18	+11	+ 1	-12	-18	-19	-19	-12	- 9	-12	- 9	- 2	- 7	-11	-12	- 9	- 9	- 7	- 1	+ 3	+16	+31	+47	+45	888	23 00 +51	06 00 -22	73
20	+44	+27	+10	+ 4	- 1	+ 1	+ 7	+14	+12	+ 9	- 6	- 9	-11	-13	-16	-16	-13	-16	-17	- 7	- 6	+ 2	0	+ 2	877	00 15 +51	18 15 -22	73
21	+ 5	+ 3	- 4	-14	-19	-23	-16	- 6	- 6	- 6	- 8	0	- 5	- 8	- 7	- 6	- 5	- 2	+ 6	+18	+21	+24	+27	+31	870	23 09 +32	05 48 -25	57
+ 22	+24	+18	+ 6	- 8	-17	-17	-12	-12	-14	-13	-13	-12	-14	-12	-10	- 9	- 9	- 9	- 9	+ 5	+18	+28	+38	+46	873	23 56 +51	05 11 -18	69
23	+42	+28	+18	+15	+ 3	- 1	- 1	0	- 2	- 6	- 7	-15	- 9	- 4	-12	-22	-14	-15	- 6	+12	+10	+ 5	- 7	-22	881	00 33 +47	15 30 -26	73
24	+44	+19	+10	-13	-41	-28	-14	-26	-33	-21	-14	-15	+ 7	+ 5	+ 3	+ 3	+ 5	+ 5	+ 5	- 3	0	+19	+40	+51	810	23 36 +54	04 34 -49	103
25	+16	+ 6	-11	-13	-22	-26	-21	-14	-15	-18	- 5	+ 4	- 6	+ 6	+ 4	+ 2	+ 4	+ 1	- 1	+ 8	+21	+17	+22	+33	843	23 58 +36	05 15 -30	66
26	+31	+25	+10	-17	-24	-17	-12	- 7	- 9	- 5	- 6	- 8	0	+ 7	+ 3	+ 3	- 3	- 5	- 5	- 5	- 5	+15	+18	+17	844	00 09 +33	04 32 -27	60
27	+15	+ 9	- 1	-10	-15	-15	-12	-13	-17	0	-10	-12	-10	- 7	- 4	- 2	- 2	- 5	- 2	+ 5	+17	+22	+32	+37	849	23 54 +38	08 50 -20	58
28	+35	+22	+11	0	-12	-20	-20	-20	-20	-17	- 5	- 7	- 7	- 2	- 5	+ 2	0	- 5	- 7	0	+10	+26	+26	+23	849	00 00 +37	05 04 -21	58
29	+16	+ 8	+ 3	- 3	- 9	-12	-12	-14	-19	- 9	+ 1	- 7	- 2	- 2	- 4	- 2	+ 1	- 2	- 7	- 4	+ 6	+17	+24	+23	846	22 54 +26	09 00 -21	47
30	+13	+ 8	+ 3	- 4	-11	-12	-12	- 9	- 5	-12	-13	-10	-10	- 6	- 3	- 5	- 8	-10	- 5	+ 4	+15	+27	+36	+37	854	23 45 +38	07 17 -14	52
31																												
MEAN.	+23	+14	+ 4	- 5	-11	-12	-11	-11	-12	-12	-10	- 9	- 8	- 7	- 7	- 6	- 5	- 5	- 3	+ 5	+12	+20	+27	+28	864			

209/1/41—14357]

Horizontal Intensity

G.M.T. (H = 34000γ + Mean + ...) December 1942.

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	+24	+14	+ 4	- 7	-13	-15	-14	-15	-13	-15	-14	-15	-15	-13	- 9	- 3	- 1	- 1	0	+ 7	+19	+34	+32	+28	861	21 46 +38	07 49 -17	55
2	+13	+11	+ 1	-12	-17	-14	-14	-12	-13	-14	-12	-12	-14	-14	-14	-11	-10	- 4	+ 2	+19	+28	+37	+41	+36	867	22 14 +41	04 00 -17	58
3	+24	+13	+ 3	- 7	-12	-11	- 8	- 7	- 7	- 7	- 7	- 7	- 9	- 8	- 7	- 9	- 7	- 9	- 7	+ 2	+11	+21	+33	+26	867	22 39 +36	04 45 -12	48
4	+18	+16	+ 8	+ 1	- 5	-14	-16	-19	-18	-14	-14	-14	-12	-14	-12	- 7	-12	-11	- 2	+13	+26	+33	+38	+38	872	23 04 +41	08 07 -22	63
5	+33	+14	- 9	-23	-26	-20	-14	-11	- 9	- 6	- 9	- 9	- 9	- 9	-10	- 9	- 7	- 4	+ 1	+11	+18	+31	+41	+43	869	22 46 +44	03 58 -27	71
6	+26	+16	+ 4	- 9	-16	-16	-14	-11	- 9	- 9	-10	-11	-12	-14	-12	-11	-10	- 6	- 1	+11	+22	+31	+35	+31	879	22 15 +38	04 52 -19	57
7	+38	+33	+18	+ 5	- 2	- 5	- 5	- 3	- 2	0	- 5	- 7	- 7	-13	-17	-12	- 1	- 7	-12	- 8	- 2	+ 3	+10	+13	870	00 06 +41	13 52 -20	61
8	+24	+18	+ 7	- 4	-10	- 9	- 7	- 7	- 4	- 4	- 4	- 4	- 4	- 7	- 8	- 9	- 9	-11	-11	+ 1	+ 1	+14	+24	+26	857	00 04 +26	15 09 -13	39
9																												
10																												
11	+29	+24	+16	- 2	-19	-21	-16	-12	-13	- 9	- 9	- 9	0	+ 7	+ 3	- 2	- 2	- 6	- 9	- 2	+ 6	+ 7	+17	+13	852	00 00 +33	05 08 -28	61
12	+ 8	+15	+10	+ 2	- 1	0	- 2	-12	-19	-12	-10	- 3	- 2	- 7	-14	-10	- 7	- 5	- 1	+ 5	+13	+18	+20	+22	860	22 42 +23	09 00 -23	46
13	+17	+13	+ 6	- 4	- 9	-14	-14	-14	-14	-14	-12	- 7	- 7	- 6	- 3	+ 1	+ 3	- 3	- 4	+ 3	+ 9	+18	+26	+26	862	23 11 +26	07 18 -15	41
14	+21	+14	+ 2	- 6	- 8	- 6	- 3	- 1	- 6	-11	- 8	-11	-11	- 8	- 9	- 8	- 8	- 8	- 6	+ 5	+14	+22	+28	+24	866	22 39 +29	09 24 -13	42
15	+ 8	+ 1	- 9	-17	-16	-14	-17	-15	-17	-18	-17	-14	-12	- 9	- 4	0	+ 1	+ 6	+ 9	+17	+28	+36	+34	+28	877	21 21 +38	09 22 -19	57
16	+27	+16	+ 9	0	- 6	-11	-11	-13	-16	-13	- 8	- 3	- 1	- 6	- 3	- 2	- 4	- 4	- 8	- 3	+ 4	+12	+24	+26	866	00 00 +34	09 00 -18	52
17	+12	+ 5	- 8	-18	-21	-15	-11	-11	-11	- 8	- 8	-11	- 9	- 8	- 6	- 5	- 6	- 7	- 1	+10	+23	+39	+39	+36	876	22 03 +43	04 47 -22	65
18	+15	- 2	-15	-23	-24	-21	-17	-11	- 6	- 6	- 7	- 6	- 7	- 8	- 7	- 6	- 5	0	+ 5	+15	+28	+37	+41	+42	880	23 09 +42	04 12 -25	67
19	+31	+18	+ 1	-15	-23	-20	-20	-19	-16	-14	-13	-10	- 9	- 8	- 8	- 8	- 7	- 5	+ 1	+10	+20	+32	+40	+32	883	22 27 +40	04 35 -23	63
20	+24	+12	- 3	- 7	-11	-10	- 8	- 8	- 8	- 8	- 8	-11	-12	-13	-11	-12	-12	-15	-11	+ 2	+19	+32	+37	+32	881	22 01 +42	03 59 -15	57
21																												
22	+16	+ 4	- 6	-20	-24	-17	-12	-16	-16	- 8	- 3	+11	+ 2	- 1	- 2	- 1	- 3	- 3	0	- 1	+ 9	+26	+35	+39	854	23 50 +39	04 36 -27	66
23	+42	+37	+27	+19	+12	+ 7	+ 4	- 2	- 9	- 1	-10	-15	+ 2	+ 4	-13	-23	-20	-23	-23	-20	-10	- 2	+ 3	+ 9	851	00 04 +43	08 37 -23	66
24	+11	+ 1	- 9	-17	-13	-15	-19	-21	-20	- 6	-11	- 9	- 6	- 3	+ 6	+ 6	- 4	- 9	- 6	+ 6	+19	+35	+36	+41	847	23 54 +41	08 44 -23	64
25	+35	+23	- 2	- 9	- 7	- 9	-10	-12	-14	- 9	-11	-12	-13	-12	- 5	- 9	- 9	- 6	- 5	0	+13	+23	+28	+23	855	00 39 +38	09 03 -17	55
26	+18	+ 7	+ 5	+ 1	-10	-14	-15	- 9	- 4	- 7	- 7	- 6	- 4	+ 4	+11	+ 9	+ 6	- 2	- 1	+ 3	+ 3	+ 3	+ 3	+ 1	852	00 00 +22	05 09 -21	43
27	- 6	- 3	- 8	-13	-15	-17	-15	-15	-14	-12	-11	- 8	- 9	- 6	- 3	- 3	+ 1	- 3	+ 2	+ 9	+24	+35	+39	+40	861	23 24 +42	05 34 -19	61
28																												
29																												
30	+22	+23	+14	+ 2	- 8	-12	-13	-12	-13	-12	-12	-12	-12	-11	- 9	- 8	- 6	- 4	+ 2	+ 7	+15	+22	+22	+24	871	24 00 +27	05 50 -13	40
31	+22	+14	+ 3	- 8	-13	-14	-11	-11	-13	-13	-14	-10	-11	-11	-10	- 9	- 8	- 9	- 2	+ 9	+19	+33	+37	+30	876	00 02 +22	10 37 -15	37
MEAN.	+21	+14	+ 3	- 7	-12	-13	-12	-12	-12	-10	-10	- 9	- 8	- 8	- 7	- 6	- 6	- 6	- 3	+ 5	+15	+24	+29	+28	866			

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Declination

(D = 11° + Mean + ... East)

G.M.T. Unit = 0.1 minute of arc January 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	+24	+24	+14	+11	+ 7	+ 8	+14	+11	+ 5	+ 4	+ 4	+ 2	+ 2	0	+ 3	+ 2	- 3	-16	-26	-36	-36	-21	- 3	+ 5	004			
2	+19	+20	+21	+21	+19	+12	+12	+10	+ 9	0	- 1	- 1	- 1	+ 2	+ 1	+ 4	+ 2	- 2	-26	-41	-41	-31	-19	- 1	009			
3	+16	+34	+33	+23	+21	+13	+ 4	- 3	- 3	- 6	- 6	- 6	- 4	+ 2	+ 5	+ 4	+ 3	-16	-27	-36	-32	-25	-11	+ 6	004			
4	+13	+15	+19	+28	+28	+18	+16	+10	+.8	+ 3	- 1	- 6	- 7	-11	-10	- 4	-12	-23	-42	-32	-23	-12	+ 8	+18	010			
5	+31	+28	+26	+24	+21	+18	+13	+13	+10	+ 3	- 2	+ 2	- 4	- 6	- 6	- 7	- 8	-26	-28	-34	-36	-26	- 7	+13	005			
6	+19	+15	+ 9	0	+ 3	+ 7	+10	+10	+ 1	0	+ 1	0	0	- 5	- 3	- 7	- 9	-15	-25	-20	-11	- 8	+ 3	+20	007			
7	+30	+39	+33	+25	+13	+ 9	+ 9	+ 8	+ 4	0	- 2	- 5	- 6	- 7	- 7	- 7	-10	-28	-41	-42	-32	-11	+ 9	+20	008			
8	+32	+22	+ 8	+ 2	0	+ 3	+ 8	+ 8	+ 8	+ 4	+ 3	+ 3	+ 3	+ 2	+ 1	- 3	- 4	-14	-21	-28	-30	-17	+ 2	+14	004			
9	+19	+28	+29	+28	+19	+10	+ 8	+ 8	+ 5	- 1	- 1	- 2	- 2	- 3	- 3	- 3	- 9	-23	-41	-49	-42	-16	+ 8	+28	009			
10	+26	+21	+17	+10	+ 8	+ 7	+ 7	+ 6	+ 4	- 1	- 2	- 3	- 4	-11	-12	-13	-14	-16	-19	-17	-12	- 3	+ 6	+13	010			
11	+18	+20	+18	+14	+ 7	+ 4	+ 2	- 2	- 2	- 2	- 2	- 4	- 6	-12	-13	-13	-18	-23	-23	-13	- 2	+ 7	+18	+18	010			
12	+22	+13	+10	+12	+14	+11	+10	+10	+ 6	+ 3	+ 1	+ 1	+ 1	+ 1	0	- 5	- 9	-14	-19	-14	-15	-18	-10	- 7	005			
13	+ 3	+ 5	+ 8	+12	+10	+11	+11	+ 9	+ 3	+ 3	+ 3	+ 3	+ 2	- 1	- 1	- 5	- 7	-16	-18	-16	- 8	-14	- 6	+ 6	003			
14	+ 4	- 1	0	+ 8	+ 9	+10	+18	+15	+10	+ 9	+ 1	0	- 1	- 2	- 2	- 5	- 9	-12	-18	-12	-11	-10	- 1	+ 4	007			
15	+ 8	+ 9	+ 9	+ 8	- 1	- 1	0	+ 1	+ 1	0	- 1	0	0	- 1	- 1	- 4	-11	-20	-20	-14	- 2	+ 8	+19	+20	007			
16	+17	+ 8	+ 7	+ 7	+ 5	+ 4	+ 5	+ 8	+ 8	+ 2	- 5	-10	- 8	- 5	- 2	- 2	- 6	-16	-23	-30	-18	+ 1	+18	+28	008			
17	+31	+28	+21	+18	+10	+ 8	+ 7	+ 5	0	- 3	-11	-10	- 7	- 9	- 8	- 8	-12	-33	-40	-25	-12	+ 5	+19	+30	007			
18	+35	+35	+23	0	0	+ 7	+10	+ 9	+ 3	+ 2	0	- 1	- 3	- 7	- 8	- 8	- 9	-20	-30	-31	-30	-10	+11	+23	005			
19	+23	+16	+10	+10	+11	+ 9	+10	+ 9	+ 7	+ 1	0	- 1	- 2	- 3	- 3	- 2	- 1	-19	-30	-31	-30	-16	+ 9	+30	005			
20	+36	+35	+25	+16	+ 7	+ 7	+ 6	+ 5	+ 3	- 3	- 3	- 4	- 4	- 4	- 4	- 4	- 4	- 7	-15	-25	-34	-34	-14	+26	009			
21	+54	+54	+46	+33	+13	+ 4	+ 3	+ 3	0	- 4	- 5	- 6	- 6	- 6	- 6	- 6	- 5	-17	-31	-38	-43	-31	- 8	+ 5	011			
22	+15	+19	+23	+21	+19	+11	+11	+10	+10	+ 5	+ 1	0	- 3	- 9	-10	- 8	- 7	- 7	-12	-20	-28	-22	-20	0	005			
23	+31	+36	+37	+25	+15	+ 6	+ 6	+ 6	+ 6	- 1	- 3	- 4	- 5	- 8	-13	-10	- 6	- 9	-15	-24	-24	-21	-12	- 4	009			
24	+ 5	+26	+27	+29	+25	+12	+ 6	+ 6	+ 6	+ 1	- 3	- 4	- 5	- 9	- 8	- 5	- 4	-11	-14	-17	-20	-15	-14	-14	009			
25	- 9	- 9	- 9	0	+ 2	+ 7	+10	+11	+11	+ 8	+ 5	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	0	- 9	- 9	- 9	- 9	- 6	- 2	004			
26	- 5	- 6	+ 1	+ 6	+ 4	+ 3	+ 7	+ 5	+ 3	+ 2	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	- 2	- 9	-16	- 9	- 5	+ 1	+ 4	+18	004			
27	+22	+21	+14	+ 3	+ 1	+ 1	+ 4	+ 4	+ 5	+ 2	+ 2	+ 1	+ 2	+ 1	+ 1	+ 1	+ 1	- 3	- 9	-18	-20	-16	- 9	- 1	004			
28	- 3	0	+ 9	+12	+ 7	+ 9	+10	+ 5	+ 5	+ 3	+ 1	+ 1	+ 2	+ 3	+ 2	+ 2	+ 2	- 8	-20	-28	-23	-15	+ 1	+13	003			
29	+20	+21	+ 9	- 1	- 2	+ 5	+ 7	+ 6	+ 4	+ 2	+ 2	+ 1	+ 1	0	0	0	0	- 7	-18	-18	-15	-13	-11	+ 1	006			
30	+ 1	0	+ 8	+10	+ 9	+10	+11	+10	+ 9	+ 4	0	0	0	- 1	0	- 1	- 2	-11	-26	-31	-23	- 9	+ 9	+19	006			
31	+25	+27	+24	+12	+ 3	+ 3	+ 5	+ 6	+ 5	+ 5	+ 3	- 6	- 6	- 5	- 6	- 7	- 8	-21	-33	-36	-26	- 6	+14	+24	011			
MEAN.	+19	+19	+17	+14	+10	+ 8	+ 8	+ 7	+ 5	+ 1	- 1	- 2	- 2	- 4	- 4	- 4	- 6	-15	-24	-26	-22	-13	0	+12	007			

(D = 11° + Mean ...East)

G.M.T. Unit = 0.1 minute of arc February 1942.

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	+26	+17	+20	+16	+ 7	+ 7	+ 7	+ 7	+ 5	+ 2	- 2	- 3	- 3	- 5	- 5	- 5	- 5	-18	-32	-36	-23	- 3	+ 8	+18	008			
2	+25	+34	+27	+17	+ 6	+ 5	+ 6	+ 3	- 1	- 5	- 4	- 5	- 5	- 6	- 4	- 4	- 5	-15	-27	-25	-23	- 9	+ 6	+16	009			
3	+26	+22	+17	+ 8	+ 3	+ 5	+ 6	+ 3	+ 5	-2	- 1	- 3	- 3	- 2	- 2	- 3	- 3	-23	-33	-28	-19	- 4	+ 8	+18	008			
4	+31	+24	+16	+ 5	- 4	- 4	- 1	+ 1	- 4	- 5	- 5	- 5	- 5	- 5	- 6	- 7	-10	-23	-29	-27	-18	+ 2	+29	+46	012			
5	+47	+36	+26	+19	+ 8	+ 2	+ 5	- 1	- 2	- 3	- 3	- 5	- 7	- 9	- 6	- 4	-11	-32	-48	-41	-24	- 3	+19	+26	008			
6	+22	+42	+49	+38	+10	+1	+ 3	+ 3	- 2	- 7	-10	-11	- 8	- 6	- 3	0	- 5	-17	-37	-39	-30	-16	+10	+23	013			
7	+33	+35	+28	+17	+ 6	+ 4	+ 6	+ 6	+ 4	+ 3	+ 1	- 2	- 1	- 2	- 3	- 4	- 5	-14	-31	-35	-30	-16	- 5	+ 6	009			
+ 8	+14	+24	+33	+24	+21	+13	+ 4	+ 3	+ 2	+ 2	0	- 5	- 5	- 4	- 5	- 6	- 7	-16	-26	-32	-26	-16	- 6	+ 4	011			
+ 9	+18	+27	+28	+24	+11	+ 5	+ 8	+ 8	+ 5	- 1	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 8	-21	-27	-29	-22	-14	- 2	007			
10	+ 6	+ 6	+16	+17	+14	+ 6	+ 6	+ 6	+ 5	+ 3	+ 1	- 3	- 3	+ 2	0	- 2	- 4	- 7	-16	-21	-24	-14	- 3	+13	009			
11	+16	+13	+ 7	+ 3	- 3	- 3	+ 7	0	- 1	- 3	- 3	- 3	+ 5	+ 6	+ 6	+ 6	- 3	-13	-23	-21	-15	- 7	+ 6	+16	008			
+12	+16	+15	+16	+15	+10	+ 6	+ 5	+ 5	+ 5	+ 3	0	- 4	- 4	- 2	- 4	- 5	- 5	- 6	-24	-30	-35	-15	+ 8	+18	010			
13	+23	+23	+23	+14	+ 4	+ 4	+ 4	+ 4	+ 4	+ 2	- 2	- 1	- 4	- 5	- 5	- 2	- 6	-16	-27	-35	-27	-10	+14	+25	011			
14	+34	+34	+25	+15	+ 6	+ 6	+ 8	+ 7	+ 5	+ 4	- 4	- 5	- 5	- 5	- 5	- 2	- 3	-15	-26	-42	-37	-22	+12	+26	010			
15	+31	+30	+29	+20	+11	+ 8	+ 2	- 1	- 8	-10	-10	-11	-12	- 9	- 9	- 6	- 8	-19	-30	-33	-29	- 7	+25	+48	015			
16	+53	+46	+35	+24	+14	+ 5	+ 5	- 1	- 4	- 6	- 5	- 5	- 5	- 5	- 5	- 4	- 5	- 7	-28	-43	-47	-32	- 5	+26	010			
17	+43	+45	+34	+18	+ 5	+ 3	+ 9	+ 3	+ 3	0	- 5	- 5	- 4	- 3	- 3	- 4	- 5	-15	-28	-38	-37	-28	- 7	+17	012			
+18	+38	+45	+35	+24	+ 6	+ 3	+ 4	+ 4	+ 3	+ 3	- 3	0	- 3	- 3	+ 1	- 1	- 3	- 7	-26	-37	-37	-27	-16	+ 4	011			
+19	+23	+31	+24	+13	+ 1	- 3	+ 1	+ 1	+ 1	+ 1	0	0	0	0	- 1	0	+ 1	0	-13	-29	-34	-29	- 7	+18	014			
20	+35	+36	+35	+25	+15	+ 5	+ 7	+ 5	+ 1	- 4	- 5	- 5	- 5	- 2	+ 2	+ 4	+ 5	+ 4	-15	-30	-36	-42	-26	- 4	010			
21	+14	+16	+15	+13	+11	+ 6	+ 5	+ 5	- 2	- 3	0	+ 2	- 4	+ 1	+ 3	+ 4	+ 4	- 5	-14	-26	-34	-17	0	+ 7	010			
22	+ 6	+ 5	- 4	- 4	- 4	- 1	+ 6	+ 4	+ 3	- 3	- 2	0	0	+ 3	+ 5	+ 6	+ 5	- 4	-17	-34	-24	- 4	+16	+35	009			
23	+39	+30	+20	+10	0	- 1	- 1	- 1	- 1	- 1	- 1	- 1	0	- 1	0	0	- 2	0	-10	-20	-30	-20	-10	+ 2	015			
24	+25	+25	+16	+ 6	+ 6	+15	+16	+12	+ 3	+ 3	+ 5	- 2	- 4	- 4	- 4	- 4	- 4	- 5	-16	-26	-34	-29	-14	+ 7	009			
25	+23	+24	+14	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 3	+ 3	+ 3	+ 3	+ 4	+ 4	- 6	-21	-36	-36	-26	-6	+14	011			
26	+14	+22	+21	+14	+10	+ 9	+10	+ 3	+ 3	+ 2	0	- 3	- 6	0	0	+ 1	0	- 7	-17	-27	-27	-17	- 7	+10	012			
27	+17	+17	+14	+10	0	+ 3	+ 4	+ 4	+ 4	+ 2	- 5	- 4	+ 1	+ 3	+ 3	+ 4	+ 4	+ 1	-15	-28	-36	-26	- 5	+17	011			
28	+37	+31	+30	+21	+19	+13	+12	+10	+ 9	+ 9	0	0	+ 2	0	- 5	-10	- 9	0	-21	-49	-50	-40	-18	+ 9	005			
29																												
30																												
31																												
MEAN.	+26	+27	+23	+15	+ 7	+ 5	+ 6	+ 4	+ 2	0	- 2	- 3	- 3	- 2	- 2	- 2	- 3	-10	-24	-32	-30	-18	0	+17	010			

Declination

(D = 11° + Mean + ... East)

G.M.T. Unit = 0.1 minute of arc March 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	+27	+36	+28	+22	+17	+17	+19	+16	+14	-19	-26	-45	-40	-33	-16	-13	-13	-12	- 7	-14	-13	+ 7	+17	+34	-002*			
2	+31	+22	+28	+12	+ 2	+ 3	+ 6	+ 8	+ 7	+ 2	+ 2	+ 2	- 1	- 7	- 8	+ 2	+ 2	+ 1	-18	-28	-32	-29	-16	+ 7	003			
3	+26	+37	+31	+21	+16	+ 8	+13	+13	+ 8	+ 7	-12	- 5	-12	-12	-12	-17	-19	-11	- 7	-22	-29	-22	-11	+ 8	007			
4	+18	+23	+18	+ 9	+ 8	+ 8	+ 9	+ 7	+ 8	+ 2	- 1	- 1	0	+ 2	+ 7	+ 7	+ 7	+ 4	-11	-31	-37	-32	-21	- 2	007			
5	+ 8	+17	+17	+16	+17	+16	+ 7	+ 8	+11	+ 7	+ 2	- 2	- 3	- 3	- 2	- 2	- 3	-11	-21	-31	-33	-23	-10	+ 7	008			
6	+21	+21	+21	+14	+11	+11	+12	+12	+11	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 2	+ 4	+ 1	-18	-34	-43	-37	-19	+ 8	004			
7	+19	+27	+21	+13	+12	+11	+12	+10	+ 1	0	- 3	- 6	- 6	- 2	+ 1	+ 1	+ 1	0	-16	-30	-38	-20	(- 9)	+11	014			
8	+22	+22	+31	+12	+ 2	+ 2	+ 2	+ 2	+ 2	+ 1	- 7	- 8	- 7	- 3	0	+ 2	+ 2	- 8	- 8	-20	-21	-17	- 8	- 4	013			
9	+ 4	+14	+22	+23	+15	+16	+15	+12	+ 5	+ 3	- 6	- 5	- 3	0	+ 3	+ 3	+ 2	(+ 1)	-16	-28	(-37)	-27	-16	- 7	012			
10	+ 1	+ 8	+14	+13	+12	+ 6	+ 4	+ 3	+ 3	+ 1	0	- 1	- 3	- 2	+ 1	+ 3	+ 2	0	- 7	-22	-24	-15	- 4	+ 8	012			
11	+23	+27	+19	+15	+ 4	+ 5	+ 7	+ 7	+ 5	+ 4	+ 2	+ 3	+ 1	+ 2	+ 2	+ 3	+ 3	- 1	-17	-35	-35	(-25)	(-13)	+ 2	010			
+12	+13	+17	+12	+ 6	+ 5	+10	+16	+15	+ 9	+ 1	- 3	- 3	- 4	- 4	- 4	- 2	+ 3	- 2	- 9	-21	-24	-23	-13	+ 7	009			
13	+21	+16	+17	+21	+12	+11	+11	+ 7	+ 3	- 7	- 8	- 8	-17	-16	- 8	- 3	- 6	- 8	-21	-26	-21	- 7	+10	+21	013			
14	+25	+25	+21	+14	+11	+13	+10	- 4	- 5	- 3	- 3	- 2	- 7	- 4	- 5	- 1	- 3	- 6	-10	-19	-23	-13	- 5	+ 1	014			
15	+ 6	+ 9	+ 9	+ 9	+ 9	+ 9	+ 9	+ 6	+ 4	+ 4	0	- 1	- 2	- 1	- 2	- 2	- 1	- 3	- 7	-19	-20	-13	- 6	+ 7	016			
+16	+14	+14	+ 9	- 1	- 4	- 1	+ 6	+ 5	+ 3	- 1	- 1	- 1	- 2	- 2	- 2	- 1	- 1	- 1	- 5	-11	-11	- 7	+ 1	+11	016			
17	+21	+25	+21	+11	+ 5	+ 6	+ 5	+ 4	+ 1	0	- 3	0	- 1	- 5	- 1	+ 1	+ 1	+ 1	- 4	-19	-27	-19	-10	- 6	014			
18	+ 6	+15	+14	+12	+11	+11	+11	+10	+ 4	+ 3	+ 3	+ 3	+ 2	+ 1	- 3	- 6	- 2	+ 1	0	-17	(-27)	-26	-15	- 2	012			
19	+ 8	+16	+14	+ 9	+ 6	+ 5	+ 4	+ 5	+ 4	+ 3	+ 1	- 1	- 3	- 3	- 2	0	+ 3	+ 5	- 2	-12	-22	-20	-12	- 2	017			
20	+13	+18	+16	+ 7	+ 4	+ 7	+ 7	+ 1	0	0	- 1	0	- 1	0	0	0	+ 2	+ 1	- 8	-18	-25	-20	-13	+ 5	015			
21	+23	+26	+26	+18	+11	+ 8	+10	+ 3	- 3	- 8	-10	- 7	- 5	- 5	- 1	+ 1	+ 2	- 3	-12	-25	-27	-19	- 8	+ 1	012			
22	+10	+16	+13	+13	+11	+11	+ 6	+ 4	+ 4	+ 3	+ 3	+ 1	+ 2	+ 4	+ 4	+ 3	+ 3	+ 1	-10	-25	-27	-26	-17	- 7	012			
23	+ 2	+10	+12	+12	+ 8	+ 7	+ 7	+ 5	+ 5	+ 2	+ 2	+ 2	+ 4	+ 4	+ 2	+ 4	+ 3	+ 3	- 2	-18	-28	-27	-18	- 8	013			
24	0	+17	+18	+11	+10	+ 7	+ 9	+ 7	+ 3	+ 1	+ 5	0	0	0	- 1	0	0	- 1	-10	-25	-30	-21	-10	0	015			
+25	+16	+27	+25	+12	+ 6	+ 6	+ 6	+ 4	+ 1	- 2	- 4	- 4	- 4	- 4	- 4	- 4	- 3	- 4	-11	-22	-26	-16	- 4	+ 6	019			
26	+16	+20	+20	+11	+10	+11	+12	+10	+ 9	- 3	- 9	- 2	- 2	0	- 1	+ 6	+ 6	+ 1	-15	-31	-30	-22	-10	+ 2	015			
+27	+ 8	+18	+16	+ 8	+ 6	+ 1	+ 6	+ 8	+ 4	+ 1	- 1	- 1	0	- 1	- 1	- 1	+ 2	+ 1	- 6	-17	-20	-11	- 9	- 3	016			
+28	+ 5	+10	+10	+ 9	+ 8	+ 8	+ 7	+ 3	+ 3	+ 1	+ 1	0	0	0	0	0	+ 1	+ 2	- 5	-12	-13	-11	-12	-11	015			
29	- 4	+ 7	+ 7	+ 9	+10	+ 9	+ 9	+ 8	+ 4	+ 1	+ 3	+ 1	- 2	- 5	-10	- 7	- 1	0	- 6	-12	-14	-10	0	+ 5	015			
30	+11	+13	+10	+ 2	+ 4	+ 8	+ 5	+ 5	+ 1	0	+ 1	+ 1	+ 1	0	- 1	- 2	0	+ 2	- 7	-10	-16	-16	- 9	+ 1	014			
31	+ 9	+11	+13	+11	+ 8	+ 8	+ 8	+ 5	+ 2	+ 1	+ 1	+ 1	0	0	0	0	+ 1	+ 2	- 8	-19	-26	-22	-12	- 2	014			
MEAN.	+14	+19	+18	+12	+ 9	+ 8	+ 9	+ 7	+ 4	0	- 2	- 3	- 4	- 3	- 2	- 1	0	- 1	-10	-22	-26	-19	- 9	+ 3	012			

200/1/41—14357

* The mean for the first day of this month = 10° 59.8'

Declination

(D = 11° + Mean +. ...East)

G.M.T. Unit = 0.1 minute of arc April 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1																												
2	+16	+23	+20	+11	+ 8	+11	+13	+17	+12	- 6	- 8	-15	-17	-10	-13	- 9	- 6	- 7	- 2	-16	-12	- 9	- 6	0	014			
3	+ 2	- 1	0	+ 3	+ 7	+ 6	+ 4	- 3	- 4	- 4	- 1	+ 4	+ 3	+ 3	+ 6	+ 5	+ 6	+ 5	- 4	-16	-14	- 7	+ 1	+ 7	009			
4	+ 8	+14	+14	+13	+10	+10	+ 5	- 7	0	0	- 3	- 5	+ 1	+ 7	+14	+16	+ 7	+ 6	- 6	-24	-28	-23	-15	- 4	009			
5	+ 1	+ 8	+16	+18	+17	+11	+ 9	+ 2	0	- 1	0	0	0	+ 2	+ 1	+ 2	0	- 1	- 9	-18	-20	-17	-11	- 7	015			
6	0	+ 7	+ 8	+ 9	+ 8	+ 7	+ 6	+ 2	0	- 1	- 1	0	+ 2	+ 2	+ 2	+ 2	0	+ 2	- 2	-13	-20	-15	-10	- 1	015			
+ 7	+ 5	+ 8	+ 8	+ 8	+ 9	+ 8	+ 6	+ 1	0	- 1	0	0	- 2	0	+ 2	+ 1	+ 1	+ 1	- 2	-12	-16	-12	- 9	- 3	017			
8	+ 1	+ 1	+ 2	+11	+13	+12	+11	+ 8	- 2	- 9	- 4	- 2	0	0	+ 1	+ 9	+ 3	+ 7	+ 3	- 9	-18	-18	- 9	- 4	014			
9	0	- 5	0	+ 7	+11	+10	+ 6	+ 2	+ 1	+ 1	+ 1	+ 2	+ 1	+ 3	+ 5	+ 5	+ 5	+ 6	+ 5	- 7	-13	-17 I	-11	- 8	013			
10	- 5	0	+ 9	+13	+14	+12	+10	+ 9	+ 2	+ 2	+ 2	+ 2	+ 1	+ 2	+ 2	+ 2	+ 4	+ 8	+ 1	-14	-23	-21	-15	-10	013			
11	- 4	+ 4	+19	+23	+14	+ 9	+ 6	+ 3	-14	-10	- 7	-14	-14	- 6	- 4	0	+ 6	+ 6	- 1	- 5	- 7	- 7 I	(- 6)	- 1	009			
12	- 5	- 1	+ 3	+ 9	+10	+ 9	+ 8	+ 3	0	0	- 1	0	0	0	0	+ 2	+ 6	+ 8	0	-12	-16	-10	- 4	+ 2	015			
13	+ 2	+ 8	+14	+13	+ 9	+ 7	+ 5	+ 2	- 4	- 5	- 2	- 3	- 3	- 3	+ 6	- 1	+ 5	+ 6	+ 2	-12	-16	-10	- 4	+ 2	015			
14	+ 8	+ 9	+ 1	+ 2	+12	+17	+10	+ 3	- 1	- 2	- 2	0	- 1	- 1	- 1	0	0	- 2	- 9	-22	-22	-12	0	+16	017			
15	+17	+16	+ 9	+ 7	+ 5	+ 5	+ 6	+ 1	- 2	- 3	- 3	- 3	0	0	+ 2	+ 3	+ 3	0	- 6	-21	-23	-14	- 3	+ 5	018			
16	+13	+19	+26	+21	+11	- 2	- 2	- 7	-12	-10	- 6	- 9	- 4	- 4	- 2	0	+ 3	+ 4	+ 5	- 4	-13	-13	-11	- 4	017			
17	- 1	- 3	+10	+ 8	+11	+ 9	0	- 5	-11	-12	- 9	- 8	- 3	- 2	+ 8	+12	+10	+17	+11	- 3	-11	-14	-13	- 9	016			
18	0	+ 4	+17	+20	+21	+11	+ 5	+ 4	+ 3	+ 1	- 8	- 6	- 9	- 7	+ 2	+ 3	+ 6	+12	+ 3	- 7	-15	-19	-20	-10	013			
19	- 9	- 2	0	+ 4	+ 6	+ 8	+ 8	+ 6	+ 2	0	- 2	- 2	- 2	- 1	0	+ 2	+ 6	+ 9	+ 9	0	-10	-14	-10	+ 1	015			
20	+ 8	+ 4	+ 3	- 1	+ 5	+ 8	+ 4	+ 3	0	- 1	- 2	- 2	- 2	- 1	+ 1	+ 5	+ 7	+ 7	+ 4	-10	-14	-19	-10	- 8	016			
+21	- 7	+ 3	+ 9	+13	+13	+ 8	+ 3	+ 1	0	0	- 3	- 3	- 5	- 3	0	+ 1	+ 2	+ 2	+ 1	- 5	-13	-15	- 7	- 3	022			
+22	- 5	- 5	+ 3	+12	+13	+10	+ 5	+ 3	+ 3	+ 3	+ 2	+ 3	+ 2	+ 2	+ 3	+ 3	+ 4	+ 4	+ 2	-11	-20	-19	-11	- 3	022			
23																												
24	-13	- 5	+ 5	+15	+15	+12	+ 5	+ 3	- 1	- 5	- 6	- 5	- 5	- 4	- 2	+ 2	+ 3	+ 5	+ 9	+ 5	- 2	- 5	- 6	- 9	020			
+25	-11	- 6	+ 4	+10	+12	+ 5	+ 5	+ 2	- 1	- 2	- 3	- 1	- 2	+ 1	+ 1	+ 2	+ 3	+ 3	+ 5	- 4	-13	-12	- 5	- 4	020			
+26	0	+ 8	+15	+18	+14	+ 5	+ 5	- 1	- 1	- 2	- 1	- 3	- 3	- 3	- 4	0	+ 2	+ 2	+ 5	- 5	-13	-15	-15	-17	020			
27	-16	- 5	+15	+25	+17	+14	+ 7	+ 5	+ 4	+ 5	+ 2	- 5	- 5	- 5	- 6	- 5	- 4	+ 5	+12	+ 1	-12	-15	-16	-16	020			
28	-19	- 8	- 1	+13	+11	+ 8	+ 8	+ 5	+ 4	0	0	- 3	- 2	- 2	- 2	0	+ 2	+ 6	+ 8	+ 5	- 2	- 5	-10	-11	017			
29	-13	-12	- 3	+ 7	+ 7	+ 5	+ 4	- 2	- 3	- 2	- 3	- 3	- 3	- 2	0	+ 6	+ 7	+ 7	+ 7	+ 6	+ 3	- 1	- 2	-11	018			
30	-13	- 5	+ 7	+17	+17	+15	+ 7	+ 5	+ 1	- 2	- 3	- 3	- 5	- 5	- 3	- 3	0	+ 1	+ 7	0	- 3	-11	-10	-13	018			
31																												
MEAN.	- 1	+ 3	+ 8	+12	+11	+ 9	+ 6	+ 2	- 1	- 2	- 3	- 3	- 3	- 1	+ 1	+ 2	+ 3	+ 5	+ 2	- 8	-14	-15	- 9	- 5	016			

200/1/41—14357

Declination

(D = 11° + Mean + .. East)

G.M.T. Unit = 0.1 minute of arc May 1942.

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	- 9	- 7	+ 7	+11	+ 9	+ 1	+ 1	- 9	- 9	- 8	- 1	+ 1	+ 1	+ 2	+ 5	+11	+11	+11	+ 9	+ 1	- 8	- 9	- 9	- 9	014			
2	-11	- 5	+ 6	+13	+14	+ 9	+ 5	+ 1	0	0	- 9	- 9	- 4	- 1	+ 6	+ 9	+11	+17	+17	0	- 9	-11	-19	-19	016			
3	-14	-10	+ 1	+17	+11	+ 7	+ 7	+ 4	- 2	- 2	- 2	- 2	- 2	0	+ 1	+ 7	+ 7	+ 8	+ 8	- 1	- 9	-13	-14	-16	017			
4	-18	- 8	+ 1	+ 5	+12	+ 6	+ 5	+ 3	+ 3	- 2	- 5	- 5	- 5	+ 3	+ 3	+13	+13	+14	+13	+12	+ 3	-13	-24	-23	022			
5	-11	- 1	+ 9	+19	+12	+ 1	- 1	- 6	- 8	- 8	-10	- 2	- 1	+ 2	+ 6	+ 9	+10	+ 9	+ 9	- 1	- 8	-13	-14	-11	016			
6	- 8	+ 2	+12	+13	+ 7	+ 5	+ 5	+ 4	- 5	- 5	- 4	- 5	- 5	- 2	+ 2	+ 5	+ 5	+ 5	+ 2	- 5	-13	-14	- 7	- 2	020			
7	+ 4	+14	+15	+17	+13	+ 4	+ 4	- 3	- 5	- 5	- 6	- 5	- 4	- 3	- 2	+ 9	+ 2	+ 3	+ 4	- 2	-11	-16	-16	- 6	021			
8	+ 2	+ 7	+17	+17	+13	+ 6	+ 5	+ 1	- 4	- 4	- 4	- 5	- 5	- 3	- 2	- 1	+ 5	+ 5	+ 8	0	-12	-15	-14	-10	020			
+ 9																												
10																												
11																												
+ 12	-11	- 7	+ 3	+11	+11	+ 6	+ 4	+ 1	+ 1	+ 1	+ 1	0	0	0	0	+ 1	+ 3	+ 8	+ 4	+ 1	- 2	- 9	- 9	- 9	015			
+ 13	- 6	+ 9	+19	+19	+18	+ 9	+ 8	+ 1	- 1	- 1	- 2	- 2	- 1	- 1	- 1	- 1	+ 2	+ 5	+ 8	- 3	-13	-21	(-25)	-21	017			
14	-19	+ 2	+19	+22	+15	+ 9	+ 4	- 4	-19	-19	-12	- 7	- 1	+ 1	+ 8	+ 9	+ 8	+10	+11	0	- 9	-12	-12	-11	017			
15	-11	+ 2	+20	+19	+17	+ 9	+ 7	- 1	- 2	-10	- 5	- 3	- 1	- 1	+ 3	+ 6	+ 9	+ 9	+ 7	- 3	-12	-21	-22	-21	017			
16	- 6	+12	+20	+22	+13	+ 4	+ 4	- 2	- 6	- 6	- 6	- 6	- 6	- 6	- 4	+ 2	+ 3	+ 4	+10	+ 4	- 4	- 7	-16	-17	012			
17	-20	- 8	+ 4	+13	+ 9	+ 3	+ 3	+ 2	+ 2	- 1	- 6	- 5	- 2	+ 1	+ 2	+ 3	+ 3	+ 3	+ 5	+ 3	- 1	- 7	- 8	- 8	013			
18	- 7	+ 3	+14	+20	+12	+ 5	+ 3	+ 3	+ 3	+ 3	- 4	0	+ 2	+ 2	+ 3	+ 3	+ 3	+ 4	+ 5	- 4	-13	-18	-17	-15	013			
19	- 9	0	+10	+11	+10	+ 3	+ 3	- 1	- 1	- 3	- 3	- 1	0	0	+ 1	+ 1	+ 1	+ 3	+10	+ 6	0	- 9	-19	-19	015			
20	-24	-13	+ 9	+14	+10	+ 5	+ 5	0	0	- 1	- 2	- 2	- 1	0	+ 2	+ 9	+10	+10	+11	+ 2	- 2	-10	-15	-19	016			
21	-16	- 6	+ 5	+10	+ 9	+ 3	+ 2	0	- 2	- 3	- 6	- 4	- 1	- 2	0	0	0	+ 7	+10	+ 8	0	- 7	-10	- 8	016			
22																												
23	- 6	+ 1	+11	+15	+13	+ 8	+ 3	+ 1	- 1	- 3	- 2	- 7	- 7	- 6	0	+ 1	+ 3	+ 4	+10	+ 2	- 3	- 1	-19	-20	015			
24																												
25																												
+ 26	-10	+ 1	+10	+10	+10	+ 8	+ 1	0	0	0	0	0	0	0	0	0	+ 3	+ 5	+ 9	+ 1	- 2	-10	-16	-20	016			
27																												
28	-20	-10	0	+ 9	+ 9	0	0	0	- 1	- 1	0	0	0	0	+ 1	+ 9	+ 9	+ 9	+10	+ 9	0	0	-11	-11	016			
29																												
30																												
+ 31	-12	- 2	+ 6	+ 8	+ 7	- 1	- 2	- 2	- 3	- 4	- 4	- 2	- 2	- 2	+ 3	+ 8	+ 7	+ 7	+ 8	+ 4	0	+ 3	-13	-13	018			
MEAN.	-11	- 1	+10	+14	+12	+ 5	+ 3	0	- 3	- 4	- 4	- 3	- 2	- 1	+ 2	+ 5	+ 6	+ 7	+ 9	+ 2	- 6	-11	-15	-14	016			

200/1/41—14357]

Declination

(D = 11° + Mean + .. East)

G.M.T. Unit = 0.1 minute of arc JUNE 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1																												
+ 2	-23	- 4	+ 6	+ 5	+ 2	0	- 1	- 3	- 4	- 4	- 3	- 3	- 3	- 3	0	+ 4	+ 5	+ 6	+ 7	+ 7	+ 7	+ 5	+ 1	- 7	019			
3	- 8	0	+ 8	+13	+ 7	+ 2	+ 2	- 2	- 3	- 4	- 4	- 3	- 2	0	+ 4	+ 7	+ 8	+ 7	+14	+ 7	- 3	-12	-13	-13	019			
4	-12	- 7	+ 8	+10	+ 8	+ 3	+ 1	- 1	- 1	- 1	- 1	- 2	- 1	- 2	- 1	0	+ 1	+ 5	+ 6	+ 8	+10	+ 5	- 3	-12	-13	018			
5																												
6																												
+ 7																												
8																												
+ 9																												
+10	-14	- 6	+ 4	+10	+10	+ 4	0	- 1	- 3	- 4	- 4	- 1	- 1	0	+ 4	+ 3	+ 5	+ 5	+ 9	+ 5	+ 3	- 5	-10	-15	021			
11																												
12	- 5	- 2	+ 1	- 1	- 4	- 5	- 3	- 4	- 3	- 6	- 8	- 6	- 4	0	+ 2	+10	+14	+11	+19	+12	+ 4	- 5	- 9	-12	014			
13	-18	- 3	+ 9	+12	+ 5	- 1	- 1	- 2	- 4	- 6	- 6	- 5	- 3	- 1	+ 3	+ 4	+ 9	+ 9	+16	+12	+ 8	- 2	-12	-20	017			
14	-18	-11	+ 2	+11	+ 1	0	- 4	+ 1	- 2	- 4	- 6	- 6	- 2	+ 1	+ 2	+ 8	+10	+10	+11	+ 9	+ 6	- 1	- 9	-12	015			
15	-18	-11	+ 1	+ 6	+ 8	+ 3	- 1	- 1	- 2	- 4	- 3	- 2	- 2	- 1	+ 1	+ 3	+ 6	+ 7	+ 9	+10	+ 3	- 2	-10	-11	017			
16	- 9	+ 3	+ 8	+10	+ 6	- 1	- 1	- 2	- 4	- 4	- 4	- 5	- 4	- 1	+ 2	+ 4	+ 5	+ 6	+10	+ 8	- 1	- 7	-14	-16	020			
17	-11	-10	- 1	+ 4	+ 6	+ 5	+ 3	+ 3	0	0	- 1	- 2	- 3	- 6	0	+ 1	+ 2	+ 4	+10	+11	+ 3	- 2	- 7	-10	016			
18	- 6	0	+ 1	+ 4	- 1	+ 1	0	- 3	- 3	- 3	- 4	- 3	- 3	0	+ 2	+ 4	+ 4	+ 4	+ 7	+ 9	+ 5	- 3	- 4	- 4	019			
19	- 4	- 8	- 3	0	+ 2	- 3	- 3	- 3	- 4	- 4	- 3	- 3	- 3	- 5	- 2	0	+ 6	+ 9	+13	+12	+10	+ 7	0	-13	019			
20	- 4	+ 3	+10	+ 8	+ 8	+ 4	0	0	- 1	- 3	- 4	- 7	- 9	- 5	- 1	- 1	0	+ 3	+ 8	+ 3	- 1	- 2	- 3	- 2	016			
21	0	+ 9	+13	+13	+ 9	+ 4	+ 1	- 1	- 3	- 4	- 6	- 6	- 7	- 5	- 3	- 1	0	+ 2	+ 7	+ 9	0	-10	-11	-13	016			
+22	- 7	0	+11	+ 9	+ 4	+ 3	0	- 1	- 2	- 5	- 6	- 6	- 4	- 2	+ 1	+ 4	+ 7	+ 8	+12	+ 8	+ 2	- 7	-12	-16	012			
23	- 7	+ 3	+13	+ 8	+ 3	- 1	- 3	- 4	- 4	- 7	- 7	- 7	- 2	+ 1	+ 3	+ 6	+10	+12	+14	+11	+ 1	-14	-19	-18	013			
24	-11	- 3	+ 5	+ 2	- 1	- 1	- 2	- 8	- 9	- 8	- 6	- 3	0	+ 2	+ 5	+ 8	+ 7	+ 8	+10	(+ 5)	0	- 2	- 2	- 2	014			
25	+ 2	+ 6	+ 9	+ 3	0	- 3	- 3	- 6	- 5	- 6	- 6	- 4	- 1	+ 2	+ 3	+ 7	+ 7	+ 6	+ 8	+ 3	- 7	-12	-10	- 3	013			
26	+ 6	+17	+19	+11	+ 2	- 1	- 4	- 5	- 7	- 8	- 8	- 7	- 4	- 1	+ 2	+ 5	+ 5	+ 6	+ 9	+ 7	- 7	-16	-15	-11	017			
27	- 1	+10	+10	+ 8	+ 1	+ 1	0	- 2	- 3	- 4	- 4	- 3	- 3	0	0	+ 2	+ 3	+ 7	+10	+10	+ 2	- 9	-16	-20	016			
28	-13	- 2	+10	+11	+ 5	0	- 2	- 3	- 5	- 9	- 8	- 8	- 5	- 3	+ 1	+ 7	+11	+13	+18	+11	+ 1	- 6	-10	-10	018			
29	- 9	+ 5	+ 6	+ 6	- 2	- 3	- 3	- 7	- 6	- 8	- 7	- 4	- 3	- 2	+ 1	+ 6	+ 7	+10	+17	+15	+ 6	- 1	- 8	-14	019			
30																												
31																												
MEAN.	- 9	0	+ 7	+ 7	+ 4	+ 1	- 1	- 2	- 3	- 5	- 5	- 4	- 3	- 1	+ 1	+ 4	+ 6	+ 7	+11	+ 9	+ 2	- 5	- 9	-12	017			

220/1/39—17185

Declination

(D = 11° + Mean + .. East)

G.M.T. Unit = 0.1 minute of arc July 1942.

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	-11	- 6	+10	+11	+ 9	+ 6	+ 6	+ 4	0	- 1	- 7	-10	0	+ 1	+ 3	+ 9	+10	+10	+15	+11	0	-11	-24	-30	016			
+ 2	-30	-10	+ 1	+ 9	+ 9	+ 5	+ 3	+ 1	+ 2	0	0	0	+ 1	+ 2	+ 8	+ 8	+10	+10	+11	+10	0	-10	-19	-20	016			
+ 3	-13	- 2	+ 8	+ 7	+ 2	- 1	- 1	- 1	- 2	- 2	- 2	- 1	- 1	- 1	0	+ 2	+ 7	+ 8	+ 8	+ 7	+ 8	-11	-12	-13	017			
+ 4	- 4	+ 7	+ 9	+ 2	+ 1	0	0	- 1	- 1	- 1	- 1	- 2	- 1	- 1	0	+ 3	+ 6	+ 7	+ 8	+ 1	- 6	-12	-12	-13	017			
+ 5																												
6	0	+ 3	+ 3	+ 2	- 2	- 6	- 7	- 7	- 7	- 8	- 7	- 6	- 4	+ 1	+ 3	+ 4	+ 4	+ 4	+ 9	+11	+12	+ 4	+ 1	- 2	023			
7	- 9	- 3	+ 6	+ 5	+ 1	- 3	- 4	- 4	- 4	- 1	- 3	- 2	- 3	+ 4	+ 5	+ 6	+ 6	+ 8	+13	+ 9	+ 4	- 4	-13	-14	020			
8	- 8	+ 2	+ 9	+ 8	- 1	- 4	- 6	- 9	-11	-20	-17	- 7	- 1	+ 6	+10	+ 9	+11	+10	+19	+18	+ 9	- 1	-11	-16	017			
9	-12	- 2	+ 2	+ 4	+ 1	+ 2	+ 1	0	- 1	- 1	- 1	- 1	- 1	- 1	+ 4	+ 8	+ 9	+15	+19	+14	+ 4	-11	-21	-28	017			
10																												
11																												
12																												
13	- 4	+ 5	+ 5	+ 6	+ 6	+ 1	0	+ 5	+ 1	- 4	- 5	- 4	- 6	- 3	- 3	- 1	+ 5	+ 6	+ 6	+ 7	0	- 5	- 4	- 6	020			
14	- 5	- 2	+ 7	+ 7	+ 8	+ 7	- 1	- 1	- 2	- 3	- 7	-10	- 5	- 2	- 2	- 1	+ 7	+ 7	+10	+13	+ 4	- 3	- 6	-12	018			
15	- 4	- 2	+ 4	+ 6	+ 2	+ 6	+ 2	- 2	- 4	-11	- 5	- 4	- 6	- 3	- 2	- 3	+ 6	+ 7	+10	+ 8	+ 5	- 1	- 5	-11	019			
16																												
17	- 1	+ 8	+ 8	+ 7	+ 2	- 1	+ 1	- 1	- 2	- 2	- 2	- 4	- 8	- 3	- 2	0	+ 3	+ 7	+ 8	+ 3	- 3	-12	- 6	- 4	018			
18	- 2	+ 6	+ 7	+ 7	+ 3	- 1	- 1	- 2	- 2	- 2	- 3	- 3	- 5	- 2	- 1	0	+ 2	+ 7	+ 8	+ 8	+ 3	- 2	-12	-16	018			
+ 19	- 9	0	+ 2	+ 3	+ 1	+ 1	+ 1	0	0	- 2	- 4	- 6	- 4	- 4	+ 1	+ 3	+ 8	+11	+16	+11	+ 3	- 6	- 9	- 8	015			
20																												
21																												
22	- 5	+ 6	+14	+ 7	0	- 3	- 3	- 3	- 3	- 3	- 3	- 3	- 2	- 2	0	+ 5	+ 7	+ 8	+10	+ 7	- 2	-12	-13	-13	019			
23	- 4	+ 7	+11	+ 6	+ 2	- 1	- 2	- 4	- 3	- 4	- 3	- 3	0	+ 3	+ 6	+ 7	+11	+10	+16	+ 6	- 6	-24	-24	-15	020			
24	+ 4	+12	+10	+ 3	- 3	- 1	- 1	- 2	- 5	- 4	- 3	- 3	- 3	+ 2	+ 3	+ 7	+ 7	+ 7	+ 7	- 2	- 4	- 9	-11	- 7	019			
25	- 8	0	+ 1	+ 2	+ 1	+ 2	+ 2	+ 1	- 2	- 6	- 9	0	- 9	+ 1	0	+ 1	+ 8	+ 6	+ 5	+ 4	0	- 3	+ 1	+ 1	015			
26	0	+ 7	+16	+12	+ 4	- 1	- 1	- 3	- 5	- 8	- 4	- 3	- 2	- 1	0	+ 6	+ 8	+ 9	+ 9	- 1	-11	-20	-18	- 2	017			
27	- 3	- 3	+ 5	+ 4	+ 5	+ 6	- 2	- 2	- 3	- 5	- 5	- 8	- 4	- 4	- 2	+ 4	+ 7	+ 9	+16	+ 8	+ 6	- 4	- 7	- 8	019			
28	+ 2	+ 8	+ 9	+ 7	- 3	- 6	- 2	- 2	- 2	- 3	- 4	- 3	- 3	- 1	+ 4	+ 7	+ 7	+ 7	+12	+ 7	- 3	-14	-16	- 8	019			
29																												
30	- 4	- 3	+ 6	+ 6	+ 6	+ 2	- 1	- 3	- 3	- 3	- 4	- 3	- 3	+ 2	+ 4	+ 7	+ 7	+ 8	+13	+ 6	- 4	- 8	-13	- 8	019			
31	- 3	+ 4	+ 7	+ 9	+ 4	- 1	+ 1	- 1	- 2	- 4	- 3	- 3	- 3	+ 3	+ 5	+ 5	+ 6	+ 5	+ 6	+ 2	- 6	-11	-10	- 4	020			
MEAN.	- 6	+ 2	+ 7	+ 6	+ 3	0	- 1	- 2	- 3	- 4	- 4	- 4	- 3	0	+ 2	+ 4	+ 7	+ 8	+11	+ 7	+ 1	- 8	-11	-11	018			

290/1/41—14357]

Declination

(D = 11° + Mean + .. East)

G.M.T. Unit = 0.1 minute of arc August 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1																												
2																												
3	-17	+ 9	+14	+12	+ 3	0	+ 2	+ 2	- 1	- 5	- 3	- 2	+ 1	+ 2	+ 3	+ 3	+ 5	+ 4	+ 8	+ 3	- 6	-12	-18	-17	024			
+ 4	- 6	+ 4	+14	+13	+ 4	+ 3	+ 3	- 1	- 2	- 2	- 4	- 3	- 1	+ 1	+ 2	+ 3	+ 4	+ 4	+13	+ 8	- 1	-16	-17	-22	023			
5	- 5	+10	+15	+14	+ 5	+ 4	+ 2	0	- 2	- 5	- 5	- 5	- 1	0	+ 3	+ 5	+ 5	+ 7	+11	+ 3	- 6	-16	-16	-14	022			
6	- 9	+ 1	+11	+ 5	+ 1	+ 1	+ 1	+ 1	0	- 2	- 2	0	0	+ 1	+ 1	+ 3	+ 9	+11	+11	+ 1	- 9	-11	-15	-19	026			
7	- 8	0	+ 8	+ 8	+ 7	+ 6	- 3	- 5	- 3	- 3	- 8	- 4	+ 2	+ 6	+ 7	+ 9	+12	+ 9	+15	+ 8	- 3	-15	-22	-18	020			
+ 8	-10	+ 1	+13	+14	+ 9	+ 4	+ 3	+ 1	- 1	- 2	- 3	- 3	0	+ 2	+ 4	+ 4	+ 4	+ 4	+10	+ 3	-12	-22	-19	-14	023			
9	- 5	+ 5	+10	+13	+ 7	+ 5	+ 5	+ 5	+ 4	+ 4	+ 2	+ 1	- 4	- 4	+ 2	+ 4	+ 5	+ 5	+ 5	- 5	-14	-21	-20	-15	022			
10	- 7	+ 3	+11	+12	+ 7	+ 3	+ 3	+ 3	+ 3	- 1	- 7	- 7	- 7	+ 2	+ 4	+ 8	+12	+ 8	+15	+ 3	- 7	-17	-17	-17	024			
11	- 5	+ 5	+ 7	+ 8	+ 6	+ 6	+ 6	+ 5	0	- 4	- 2	- 4	- 4	- 2	- 3	+ 5	+ 6	+ 8	+13	+ 6	- 4	-16	-24	-16	021			
12																												
+ 13																												
14	- 6	+ 2	+13	+14	+ 5	+ 4	+ 3	+ 3	+ 3	- 2	- 4	- 6	- 6	- 2	+ 3	+ 4	+ 4	+ 4	+ 5	+ 4	- 5	- 6	-12	-14	023			
15	-16	- 1	+ 2	+10	+ 6	0	0	0	+ 8	0	- 1	- 5	- 5	- 6	0	0	+ 1	+ 6	+10	+ 9	0	-10	-10	- 9	027			
16	- 1	+ 9	+12	+12	+ 3	+ 1	+ 2	0	- 3	- 8	- 8	- 8	- 5	- 3	+ 2	+ 3	+11	+12	+19	+11	+ 2	-12	-18	-22	025			
17	-14	- 9	- 1	+ 1	- 3	- 3	- 3	- 4	- 4	- 4	- 4	- 4	- 2	+ 1	+ 6	+ 8	+16	+16	+17	+ 7	- 2	-10	- 4	0	021			
18	+ 2	+ 4	+ 6	+ 9	+ 6	+ 4	- 4	- 6	- 7	-13	-11	- 7	- 6	- 4	+ 5	+ 5	+ 8	+10	+10	+ 4	+ 3	- 2	- 6	- 6	023			
19	- 4	+ 4	+ 8	+ 6	+ 4	- 5	- 6	- 6	- 6	- 6	-10	- 6	0	+ 3	+ 4	+ 4	+14	+ 8	+ 6	+ 4	0	0	- 6	- 6	023			
20	- 1	+ 8	+17	+11	+ 5	- 3	- 3	- 3	- 5	- 3	- 4	- 3	- 3	+ 6	+ 6	+ 7	+ 7	+ 7	+ 8	+ 2	- 5	-14	-18	-19	020			
21	- 3	+14	+14	+13	+ 9	+ 3	- 4	- 2	- 2	- 2	- 3	- 6	- 6	- 1	+ 4	+ 4	+ 4	+ 7	+ 7	- 3	- 8	-16	-17	-15	023			
22	- 7	+ 3	+ 8	+ 8	+ 3	+ 2	+ 3	+ 2	+ 2	0	- 3	- 3	+ 1	+ 2	+ 3	+ 3	+ 3	+ 9	+11	+ 3	- 5	-13	-20	-18	024			
23	-20	- 2	+ 1	+ 9	+ 9	+ 8	+ 1	- 2	- 4	- 9	-11	- 5	- 5	- 1	- 1	+ 7	+ 9	+14	+14	+ 8	- 1	- 9	- 2	- 2	028			
24	0	+ 2	+ 5	+10	+ 6	0	0	- 1	- 1	- 2	- 2	- 2	- 1	- 1	+ 2	+ 5	+10	+12	+10	0	- 8	-20	-20	-11	027			
25	- 6	+ 3	+13	+14	+13	+ 4	+ 4	- 3	- 3	- 3	- 1	+ 2	+ 3	+ 4	+ 4	+ 8	+12	+13	+12	- 1	-16	-23	-26	-16	025			
26	-13	+ 1	+11	+11	+10	+ 1	+ 1	0	0	0	0	0	0	+ 1	+ 1	+ 3	+ 4	+10	+11	+ 1	- 6	-11	-19	-16	026			
27	-11	- 1	+ 5	+ 1	+ 2	0	0	- 1	0	0	- 1	- 1	- 3	- 2	0	+ 1	+ 1	+ 3	+ 9	+ 6	0	0	- 8	- 9	027			
+ 28	+ 1	+ 3	+ 7	+11	+ 5	+ 3	+ 3	+ 3	+ 2	+ 2	- 3	+ 1	+ 2	+ 3	+ 3	+ 3	+ 3	+ 7	+13	+ 3	- 6	-17	-24	-25	024			
+ 29	-16	- 4	+ 7	+16	+16	+ 7	+ 7	+ 7	+ 6	0	+ 1	0	+ 1	+ 1	+ 5	+ 6	+ 7	+ 8	+10	0	-13	-17	-23	-28	020			
30	-23	- 6	+ 5	+ 7	+ 5	+ 4	+ 4	+ 4	+ 3	+ 3	- 2	0	+ 3	+ 4	+ 4	+12	+13	+14	+14	+ 3	- 7	-16	-21	-17	023			
31	- 6	+ 4	+14	+14	+14	+ 9	+ 4	+ 4	- 1	- 1	- 6	- 6	- 6	- 5	- 6	+ 3	+ 5	+13	+14	+ 4	- 6	-16	-22	-21	023			
MEAN.	- 8	+ 3	+ 9	+10	+ 6	+ 3	+ 1	0	- 1	- 3	- 4	- 3	- 2	0	+ 3	+ 5	+ 7	+ 9	+11	+ 4	- 5	-13	-16	-15	024			

200/I/41—14357]

Declination

(D = 11° + Mean + .. East)

G.M.T. Unit = 0.1 minute of arc September 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M.	γ	Minimum. H. M.	γ	Range.
1	-22	-10	+ 2	+ 7	+ 8	+ 3	+ 3	+ 3	+ 2	0	- 6	- 6	- 7	- 8	- 1	+ 4	+10	+12	+13	+ 8	- 1	-7	- 8	- 5	024					
2	+ 1	+ 6	+15	+13	+10	+ 2	- 9	- 8	-12	- 7	- 1	- 1	0	+ 3	+ 4	+ 5	+10	+11	+ 6	- 2	-14	-17	- 7	- 4	024					
3	+ 6	+17	+16	+14	+ 8	0	- 1	- 7	- 5	- 7	- 5	- 4	- 2	- 1	+ 1	+ 5	+ 5	+ 7	+ 6	- 3	-12	-16	-17	- 6	029					
4	+ 8	+20	+17	+15	+ 8	+ 5	+ 3	0	- 2	- 2	- 3	- 4	- 3	- 2	+ 2	+ 7	+ 7	+ 1	0	- 5	-14	-21	-19	- 9	029					
5	+ 9	+15	+12	+17	+10	+ 7	+ 2	0	0	- 1	- 8	- 7	- 7	- 2	0	0	+ 2	+ 4	0	-10	-11	-15	-13	- 4	027					
6	+ 8	+17	+13	+ 8	+ 7	+ 4	+ 4	0	0	- 2	- 4	- 3	- 6	- 2	- 2	- 2	+ 3	+ 7	+ 5	- 3	-12	-12	-11	- 7	029					
7																														
8	- 7	+ 3	+ 4	+ 3	+ 3	+ 3	+ 3	+ 2	0	- 2	- 3	- 7	- 6	+ 2	+ 3	+ 3	+ 3	+ 8	+ 3	- 3	- 9	-10	- 4	+ 3	024					
9	+ 5	+ 5	+ 4	+ 5	+ 5	+ 5	+ 3	+ 2	- 1	- 4	- 4	- 5	- 4	+ 2	+ 4	+ 5	+ 5	+ 5	+ 4	- 6	-15	-16	- 8	+ 3	022					
10	+ 8	+10	+10	+ 9	+ 3	0	0	0	- 2	- 5	- 3	- 4	- 1	0	+ 1	+ 1	+ 5	+10	+10	0	-10	-21	-20	- 7	027					
11	+ 7	+11	+16	+11	+ 9	+ 1	+ 1	+ 1	0	0	- 5	- 1	0	0	+ 1	+ 1	+ 1	+10	+10	- 4	-10	-20	-20	- 9	026					
12	+11	+14	+15	+14	+ 5	+ 4	- 6	-15	-15	-16	-17	-13	- 5	- 1	+ 2	+ 4	+13	+ 5	+ 5	+ 4	+ 4	- 3	- 5	0	022					
13	+ 2	+ 4	+ 4	+ 5	+ 4	+ 3	+ 3	+ 2	- 3	- 6	- 6	- 5	0	+ 3	+ 4	+ 7	+12	+12	+ 4	- 6	-10	-13	-16	- 8	023					
14	+ 5	+21	+22	+12	+ 3	+ 2	+ 1	- 7	- 7	- 5	- 4	- 4	0	+ 3	+ 3	+ 8	+12	+13	+ 4	- 8	-17	-22	-17	- 6	024					
15	- 1	+ 8	+ 9	+17	+ 9	- 1	- 2	- 2	- 2	- 2	- 5	- 9	- 2	- 1	0	+ 6	+ 9	+ 9	+ 4	-11	-20	-11	- 1	+ 9	028					
16	+12	+12	+11	+ 5	+ 1	- 8	+ 1	+ 1	+ 1	0	+ 1	+ 1	+ 1	+ 2	+ 2	+ 2	+ 2	+ 3	+ 1	-11	-18	-18	- 9	+ 1	025					
17	+ 7	+12	+13	+ 9	+ 7	+ 5	- 3	- 3	- 3	- 5	- 4	- 7	- 4	- 3	+ 5	+ 8	+ 7	+ 6	- 3	-11	-13	-13	- 6	- 3	030					
18	+ 9	+17	+19	+14	+ 7	+ 1	- 1	- 1	- 1	- 2	- 2	- 2	- 1	- 1	+ 8	+ 9	+ 9	+ 6	- 1	-11	-19	-21	-22	-18	028					
19	- 1	+ 8	+ 9	+10	+ 8	- 1	- 2	- 8	- 8	- 8	- 2	- 1	- 1	+ 3	+ 3	+ 8	+ 8	+ 9	+ 8	- 1	- 6	-12	-16	-10	028					
20	+ 4	+12	+13	+13	+ 5	+ 4	+ 4	+ 4	+ 4	+ 2	+ 1	+ 3	+ 4	+ 4	+ 4	+ 6	+ 9	+ 4	- 6	-22	-27	-27	-16	- 6	023					
21	+ 4	+11	+11	+ 3	+ 2	+ 2	+ 2	+ 2	- 8	-16	- 8	- 3	+ 2	+ 2	+ 2	+ 2	+ 7	+ 3	- 6	- 9	- 9	- 7	+ 5	+13	025					
22	+15	+13	+12	+ 6	+ 1	- 2	+ 2	+ 3	+ 2	- 1	- 5	- 2	- 3	+ 2	+ 3	+ 3	+ 3	+ 2	- 8	-17	-18	-17	- 6	+ 5	024					
23	+11	+12	+ 9	+ 5	+ 4	+ 4	+ 2	0	- 1	- 1	- 1	- 1	- 3	- 1	0	0	0	- 2	-10	-15	-16	-10	0	+ 8	027					
24	+10	+ 4	0	- 1	0	+ 3	+ 4	+ 3	+ 2	+ 1	- 1	- 1	+ 1	+ 2	+ 3	+ 3	+ 3	+ 1	-10	-17	-15	- 7	+ 1	+ 5	024					
25	+ 8	+12	+10	+ 6	+ 4	+ 3	+ 5	+ 5	+ 4	+ 3	+ 3	+ 2	+ 3	+ 3	+ 5	+ 6	+ 5	+ 2	-15	-25	-23	-17	- 9	+ 2	024					
26	+ 4	+10	+12	+ 6	+ 2	+ 3	+ 5	+ 4	+ 2	+ 2	0	- 1	0	+ 1	+ 2	+ 3	+ 3	+ 2	- 5	-10	-14	-14	- 8	+ 2	025					
27	+ 9	+13	+14	+11	+10	+ 7	+ 4	+ 2	+ 1	0	0	0	0	+ 2	+ 4	+ 5	+ 6	0	-12	-25	-27	-20	- 9	+ 1	027					
28	+10	+10	+11	+10	+ 5	+ 3	+ 3	+ 1	0	0	- 1	- 1	- 2	- 1	0	+ 1	+ 2	+ 1	- 6	-11	-17	-17	-10	- 2	027					
29	+ 4	+11	+16	+14	+ 8	+ 3	+ 2	0	- 2	- 2	- 3	- 3	- 2	- 2	- 2	+ 3	+ 5	+ 6	- 1	-12	-16	-18	-11	- 5	029					
30																														
31																														
MEAN.	+ 5	+11	+11	+ 9	+ 6	+ 2	+ 1	- 1	- 2	- 3	- 3	- 3	- 2	0	+ 2	+ 4	+ 6	+ 6	0	- 9	-14	-15	-10	- 2	026					

200/1/41—14357]

Declination

(D = 11° + Mean + .. East)

G.M.T. Unit = 0.1 minute of arc October 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
+1	+14	+17	+15	+13	+ 7	+ 7	+ 7	+ 6	+ 4	+ 4	+ 2	+ 2	+ 3	+ 3	+ 4	+ 4	+ 4	+ 3	- 6	-16	-26	-27	-26	- 7	023			
2																												
3	+ 6	+13	+13	+13	+ 5	+ 8	+ 3	0	+ 3	+ 2	0	- 5	- 7	- 7	- 7	- 7	- 7	- 4	- 8	- 8	- 8	- 7	+ 1	+ 4	024			
4	+14	+21	+16	+14	+ 6	+ 4	+ 4	- 4	- 5	- 5	- 5	- 5	- 4	- 5	- 4	- 3	- 5	- 5	- 7	- 9	- 9	- 8	- 4	+ 4	023			
5	+11	+12	+12	+ 7	+ 2	+ 2	+ 2	+ 1	- 1	- 6	- 8	- 9	- 6	- 8	- 8	- 8	- 7	- 6	- 8	- 5	+ 2	+ 2	+ 6	+15	025			
6	+18	+19	+20	+19	+10	+ 4	+ 2	0	- 3	- 3	- 2	- 4	- 5	- 2	- 2	- 1	- 1	- 3	-11	-16	-18	-13	- 5	+ 8	027			
7	+16	+21	+16	+12	+12	+12	+ 8	+ 4	+ 3	+ 2	0	- 3	- 5	- 3	- 2	+ 2	+ 2	+ 2	- 8	-16	-18	-19	-19	- 7	024			
8	+ 1	+12	+21	+17	+12	+11	+ 9	+ 4	+ 1	0	- 6	- 3	- 6	0	+ 1	+ 1	+ 1	- 1	- 7	- 9	-18	-19	-12	+ 1	025			
+9																												
10	+15	+25	+20	+14	+11	+11	+ 6	+ 5	+ 3	+ 1	- 5	- 5	- 5	- 5	- 4	- 2	+ 4	+ 4	- 5	-15	-25	-27	-22	- 7	031			
11	+ 9	+16	+10	+ 8	+ 5	+ 6	+ 7	+ 5	+ 1	- 2	- 6	- 3	- 2	- 1	+ 1	+ 7	+10	+ 8	- 5	-17	-16	-24	-21	- 4	028			
12	+ 9	+19	+18	+ 9	+ 9	+ 9	+ 9	+ 3	0	- 7	-13	-17	-11	- 6	- 1	0	+ 4	+ 1	- 1	- 9	-12	-11	- 2	+ 2	027			
13																												
14																												
15	- 2	+ 5	+ 7	+ 7	+ 1	+ 7	+ 8	+ 5	+ 1	- 1	- 1	- 1	0	+ 1	+ 3	+ 7	+ 7	+ 7	- 1	-10	-18	-18	-12	- 8	- 1	028			
16	+ 9	+ 9	+10	+10	+10	+ 8	+ 9	+ 8	+ 5	+ 2	- 1	- 1	+ 2	+ 2	+ 2	+ 2	+ 2	- 2	-11	-17	-21	-20	-11	- 1	027			
17	+ 6	+ 9	+12	+10	+ 7	+ 6	+ 8	+ 6	+ 6	+ 4	+ 1	0	+ 1	0	+ 1	+ 1	0	- 3	-13	-19	-13	-12	-10	- 7	029			
18	- 4	0	+ 6	+ 7	+ 7	+ 5	+ 5	+ 1	+ 1	- 1	- 1	+ 2	0	+ 2	+ 5	+ 5	+ 6	- 3	-14	-22	-15	-12	+ 5	+ 9	030			
19																												
20	+18	+14	+ 8	+ 6	+ 6	+ 8	+ 9	+ 7	+ 5	+ 2	0	+ 4	+ 7	+ 1	+ 4	+ 3	0	-10	-22	-31	-23	-19	- 1	+12	028			
21	+21	+24	+16	+12	+ 7	+ 4	+ 3	+ 3	+ 3	+ 6	+ 3	+ 3	+ 7	+ 5	+ 7	+10	+10	+ 2	-19	-39	-40	-36	-18	+ 4	026			
+22	+13	+12	+ 7	- 2	- 1	+ 5	+ 7	+ 5	+ 3	+ 1	0	0	+ 1	+ 1	+ 1	+ 1	+ 1	- 5	-14	-21	-21	-11	+ 9	+19	028			
+23	+26	+23	+19	+11	+ 3	+ 2	+ 4	0	- 1	- 6	- 4	- 6	- 3	- 1	0	+ 1	- 1	- 9	-19	-25	-23	-17	+ 1	+19	027			
24	+27	+27	+19	+12	+ 6	+ 7	+ 7	+ 7	+ 3	0	- 3	- 3	- 3	- 3	- 3	- 2	- 1	- 3	-16	-30	-24	-21	-10	+ 5	030			
25	+18	+20	+20	+11	+11	+ 8	+ 8	+ 7	+ 8	+ 9	+ 3	0	0	0	0	0	- 1	- 9	-20	-29	-32	-29	-10	+ 6	027			
26																												
27	+15	+16	+10	+ 5	+ 3	+ 6	+ 7	+ 5	+ 4	+ 1	+ 1	0	0	+ 1	0	+ 1	+ 1	- 4	- 7	-23	-21	-18	-10	+ 2	027			
28	+10	+11	+11	+ 6	+ 1	+ 4	+ 8	+ 6	+ 2	+ 2	+ 2	+ 1	+ 1	+ 2	+ 2	+ 2	+ 2	- 6	-18	-29	-30	-17	+ 9	+21	026			
29	+21	+19	+14	+12	+10	+11	+11	+ 8	+ 6	+ 1	0	- 2	- 3	- 3	-10	- 9	- 7	+ 2	- 6	-18	-25	-20	-12	- 5	027			
30	0	+ 5	+14	+16	+19	+ 6	+ 4	- 2	- 6	- 5	- 1	- 2	- 2	- 6	- 6	- 6	- 5	- 7	-15	-17	- 9	+ 2	+ 7	+13	023			
31	+15	+21	+23	+21	+15	+12	+10	+11	+ 5	- 1	- 4	- 7	- 4	- 8	- 7	- 8	- 8	-18	-22	-26	-22	- 9	+ 1	+11	024			
	+12	+13	+14	+17	+14	+13	+ 6	+ 4	+ 4	+ 2	- 1	+ 6	- 7	- 7	- 3	+ 1	- 5	-10	-17	-26	-24	-15	+ 3	+22	023			
MEAN.	+12	+15	+14	+11	+ 8	+ 7	+ 7	+ 4	+ 2	0	- 2	- 3	- 2	- 2	- 1	0	0	- 3	-12	-20	-20	-16	- 6	+ 5	026			

200/1/41—14357]

Declination

(D = 11° + Mean + ... East)

G.M.T. Unit = 0.1 minute of arc November 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	+22	+20	+20	+20	+13	+11	+11	+ 7	+ 1	0	- 1	- 4	- 9	- 7	- 7	- 2	- 1	- 9	-13	-19	-20	-19	-10	+ 2	026			
2																												
3																												
4	+15	+13	+12	+ 8	+ 8	+13	+13	+ 4	+ 4	+ 4	+ 4	- 3	- 1	+ 3	+ 3	+ 5	+ 3	- 8	-17	-25	-26	-25	-16	0	022			
5	+ 6	+ 8	+ 8	+ 3	+ 1	+ 7	+ 7	+ 7	+ 5	- 1	- 2	- 2	- 2	- 2	- 1	0	- 2	-10	-18	-22	-21	- 6	+14	+24	029			
6	+26	+28	+19	+ 8	+ 7	+ 8	+ 7	+ 7	+ 5	- 1	- 2	- 3	- 2	- 2	- 2	- 1	0	-11	-22	-34	-32	-22	- 4	+14	029			
7	+21	+19	+18	+ 9	+ 3	+ 5	+13	+ 7	- 1	- 2	- 4	- 4	- 3	- 3	- 1	0	- 1	-10	-21	-21	-19	-10	- 1	+ 9	028			
8	+22	+19	+12	+10	+10	+15	+14	+11	+ 4	- 8	- 5	- 5	- 5	- 6	0	- 1	- 4	-18	-28	-36	-28	- 9	+ 9	+20	025			
9	+21	+19	+17	+11	+ 9	+10	+11	+ 8	+ 4	+ 1	+ 1	0	0	0	+ 1	+ 1	+ 1	- 9	-19	-25	-28	-22	- 9	+ 5	026			
10	+21	+30	+27	+22	+14	+12	+12	+11	+ 5	+ 2	+ 1	+ 1	- 1	- 1	0	- 1	- 2	- 4	-18	-38	-44	-36	-18	+ 2	025			
11	+17	+28	+27	+17	+11	+ 9	+ 7	- 1	- 3	- 3	- 4	- 6	- 4	- 9	- 4	- 3	- 3	- 6	-18	-24	-25	-16	+ 1	+11	030			
12	+20	+23	+21	+14	+ 8	+ 8	+ 8	+ 8	+ 5	- 1	- 1	- 3	- 2	- 3	- 3	- 2	- 2	-11	-22	-32	-29	-15	- 1	+12	028			
13	+21	+25	+22	+16	+15	+12	+11	+ 9	+ 4	0	- 1	- 7	- 7	- 5	+ 1	- 1	+ 2	- 2	-17	-31	-31	-24	-12	- 1	027			
14	+ 9	+ 8	+10	+10	+10	+10	+ 9	+ 4	+ 1	+ 1	0	- 1	+ 1	0	+ 1	+ 3	+ 4	- 2	-10	-27	-29	-19	- 2	+11	026			
15	+17	+17	+17	+14	+ 9	+ 7	+ 7	+ 7	+ 6	+ 3	- 1	- 3	- 3	- 1	+ 1	+ 5	+ 4	- 5	-23	-34	-34	-23	- 1	+15	030			
16	+17	+18	+16	+15	+ 6	+ 5	+ 6	+ 6	+ 5	0	- 1	- 1	- 3	- 1	+ 1	+ 4	0	- 7	-24	-35	-32	-13	+ 7	+17	030			
17	+25	+21	+19	+16	+14	+12	+ 8	+ 5	+ 3	- 2	- 3	- 4	- 4	- 4	0	- 2	- 3	- 7	-23	-30	-30	-14	+1	+ 9	031			
18	+20	+27	+19	+15	+ 9	+10	+13	+ 8	- 1	- 3	- 3	- 2	- 2	- 2	- 2	0	- 2	-12	-22	-32	-23	-12	- 2	+ 8	029			
19	+17	+20	+23	+17	+14	+17	+14	+11	+ 7	+ 5	- 1	- 3	- 3	- 3	- 3	- 3	- 3	- 9	-23	-40	-34	-23	- 4	+ 7	030			
20	+26	+33	+28	+24	+17	+14	+14	+13	+ 6	+ 4	- 5	- 7	- 6	- 7	- 6	- 6	- 6	-17	-28	-36	-36	-26	- 7	+ 4	033			
21	+19	+18	+18	+15	+ 9	+ 8	+ 8	+ 4	+ 6	+ 6	+ 1	- 1	- 2	- 2	- 2	- 1	- 1	-12	-26	-35	-31	-18	- 2	+20	029			
22	+30	+31	+22	+14	+ 9	+ 7	+ 9	+ 9	0	- 1	0	0	0	- 1	- 1	0	+ 1	- 4	-15	-30	-38	-31	-19	- 1	028			
23	+12	+18	+15	+11	+ 9	+14	+15	+10	+ 8	+ 4	- 1	- 1	- 4	- 7	-10	- 8	- 6	- 8	-25	-33	-31	-16	+ 3	+22	028			
24	+40	+49	+36	+34	+30	+10	+10	+10	+ 6	+ 1	-10	- 9	-10	-11	- 7	- 7	-10	-27	-37	-42	-38	-21	- 9	+ 8	027			
25	+21	+22	+22	+21	+20	+14	+12	+12	+ 4	0	- 2	- 7	- 6	- 5	- 5	- 3	0	-11	-26	-36	-30	-26	- 8	+11	025			
26	+18	+24	+26	+31	+16	+ 9	+ 7	+ 7	+ 4	0	- 4	- 4	+ 1	- 1	- 4	- 4	- 6	-14	-18	-34	-40	-25	- 6	+ 6	031			
27	+15	+22	+23	+23	+20	+13	+14	+ 7	+ 3	- 6	- 4	- 6	- 5	- 1	+ 1	+ 1	- 4	-15	-22	-26	-32	-24	-11	+ 4	033			
28	+18	+17	+13	+ 8	+10	+ 7	+10	+ 5	+ 5	- 2	- 3	- 4	- 3	- 2	+ 6	+ 1	- 4	-16	-32	-24	-25	-12	+ 7	+17	029			
29	+25	+25	+25	+14	+ 9	+ 7	+ 9	+ 7	+ 6	- 3	- 3	- 2	- 4	- 3	- 2	- 3	- 3	-15	-25	-41	-26	-15	+ 5	+20	030			
30																												
31																												
MEAN.	+20	+22	+20	+16	+12	+10	+10	+ 8	+ 4	0	- 2	- 3	- 3	- 3	- 2	- 1	- 2	-10	-22	-31	-30	-19	- 3	+10	028			

200/1/41—14357

Declination

(D = 11° + Mean + .. East)

G.M.T. Unit = 0.1 minute of arc December 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	+19	+18	+19	+25	+18	+ 7	- 1	- 2	- 3	- 2	- 2	- 1	- 3	- 3	- 3	- 4	- 7	-16	-30	-31	-22	-10	+ 7	+18	038			
2	+23	+18	+13	+10	+ 5	+ 6	+10	+ 5	+ 7	+ 4	+ 4	+ 3	+ 2	+ 2	+ 3	+ 3	- 2	-15	-27	-35	-29	-17	- 4	+ 4	033			
3	+ 9	+11	+11	+10	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	+ 1	+ 1	0	+ 1	+ 2	+ 2	+ 1	- 9	-23	-28	-19	- 8	+10	+21	035			
4	+19	+20	+20	+18	+10	+ 8	+ 1	- 2	- 3	0	- 1	- 2	- 2	- 7	- 2	- 1	- 2	-10	-23	-31	-25	-11	+ 8	+20	037			
5	+31	+32	+24	+16	+11	+ 6	+ 7	+ 4	+ 2	+ 2	+ 1	0	- 4	- 4	- 3	- 1	0	-12	-27	-38	-37	-27	- 7	+18	034			
6	+32	+33	+24	+19	+13	+ 9	+ 8	+ 4	+ 3	+ 2	- 2	- 4	- 5	- 6	- 3	0	- 6	-16	-26	-28	-25	-16	- 4	+ 6	033			
7	+16	+19	+18	+19	+18	+11	+ 9	+ 9	+ 8	+ 4	- 1	- 2	- 2	- 1	- 1	- 1	- 3	-13	-30	-34	-31	-21	- 2	+11	028			
8	+14	+15	+14	+15	+15	+14	+13	+ 6	+ 4	- 5	- 4	- 5	- 5	- 5	- 5	- 6	- 6	-11	-16	-26	-24	-14	+ 3	+14	032			
9	+16	+22	+24	+25	+22	+14	+14	+13	+ 6	+3	+ 1	- 5	- 5	- 4	+ 3	0	- 7	-14	-26	-37	-34	-27	-16	+ 2	033			
10	+ 7	+15	+21	+30	+27	+22	+15	+ 8	+ 2	- 2	+ 2	+ 2	- 1	- 1	+ 3	- 2	- 4	-12	-25	-31	-34	-25	-15	- 4	031			
11	+ 9	+13	+13	+13	+13	+11	+12	+ 9	+ 5	0	- 6	- 5	+ 2	- 1	+ 1	+ 3	+ 2	- 7	-18	-28	-28	-22	- 7	+11	034			
12	+24	+28	+35	+28	+18	+14	+13	+ 8	0	- 2	- 4	- 6	- 8	- 7	- 3	- 2	- 1	-10	-21	-24	-27	-23	-16	- 3	029			
13	+ 9	+18	+21	+19	+10	+ 9	+ 9	+ 9	+ 6	+ 3	+ 1	- 1	- 1	- 1	- 1	+ 1	- 1	- 3	-21	-27	-31	-21	-11	- 1	028			
14	+ 4	+14	+23	+24	+22	+14	+14	+12	+10	+ 2	- 6	- 6	- 6	- 6	- 6	- 6	- 6	-16	-26	-32	-26	-13	+ 1	+13	033			
15	+22	+19	+13	+11	+ 5	+ 4	+ 4	+ 4	+ 4	+ 3	+ 3	0	- 1	- 5	- 6	- 6	- 8	-17	-26	-27	-16	+ 1	+ 7	+17	033			
16	+26	+30	+30	+28	+16	+10	+10	+ 3	+ 1	0	- 4	- 8	- 8	-10	- 9	- 8	-10	-12	-22	-29	-21	-12	- 7	0	037			
17	+ 7	+10	+18	+18	+11	+10	+ 9	+ 7	+ 2	0	0	- 1	- 4	- 3	- 2	- 6	-10	-16	-27	-30	-20	- 1	+10	+20	037			
18	+20	+20	+20	+16	+11	+10	+10	+ 6	+ 3	+ 1	+ 1	0	- 1	- 1	- 2	- 4	- 7	-10	-20	-29	-27	-19	- 3	+11	036			
19	+17	+20	+20	+19	+13	+11	+10	+ 3	+ 1	+ 1	+ 1	0	- 1	- 3	- 4	- 5	- 9	-18	-29	-37	-27	- 9	+ 8	+21	036			
20	+24	+24	+23	+28	+22	+22	+16	+12	+11	+ 4	+ 3	+ 2	+ 1	+ 1	+ 2	+ 2	- 1	-15	-28	-45	-46	-34	-18	- 7	035			
21																												
22	+33	+30	+26	+24	+14	+14	+14	+13	+13	+ 4	+ 3	- 3	- 4	- 4	- 3	- 6	- 8	-22	-36	-35	-27	-25	-15	- 1	033			
23	+18	+21	+28	+27	+22	+19	+11	0	+ 5	- 1	- 4	-10	- 9	-11	-12	- 9	- 8	-18	-30	-36	-24	-11	+ 7	+19	028			
24	+27	+26	+16	+14	+14	+ 9	+16	+11	+ 7	+ 3	- 2	- 3	- 3	- 4	- 3	- 3	- 6	-17	-26	-33	-27	-22	- 6	+ 3	030			
25	+16	+16	+ 8	+ 8	+ 9	+ 8	+ 8	+ 8	+ 7	+ 6	- 2	- 2	- 2	- 2	- 2	- 2	- 3	-12	-16	-22	-24	-13	- 2	+ 9	029			
26	+14	+14	+14	+23	+22	+14	+13	+12	+11	+ 4	+ 4	- 4	- 8	- 7	- 7	- 8	- 8	-16	-17	-21	-26	-23	- 7	+ 6	033			
27	+16	+23	+25	+23	+17	+15	+11	+12	+ 8	+ 6	+ 5	- 1	- 3	- 3	- 4	- 4	- 4	-14	-22	-28	-34	-26	-14	- 4	031			
28																												
29																												
30	- 2	- 2	- 2	0	+ 6	+ 8	+ 9	+ 8	+ 8	+ 8	+ 7	+ 6	+ 4	+ 5	- 2	- 2	- 2	- 4	-12	-13	-12	-12	- 2	+ 5	029			
31	+ 6	+ 4	+ 3	- 3	- 2	+ 5	+ 6	+ 8	+ 6	+ 5	+ 4	- 2	+ 2	- 2	- 3	- 4	- 4	- 6	-13	-16	-15	- 4	+13	+16	031			
MEAN.	+17	+19	+19	+18	+14	+11	+10	+ 7	+5	+ 2	0	- 2	- 3	- 3	- 3	- 3	- 5	-13	-24	-30	-26	-17	- 3	+ 9	033			

200/1/41—14357]

Vertical Intensity

G.M.T. (Z = 20000γ + Mean + ...) January 1942

DAY.		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
+ 1		+ 6	+ 1	- 5	- 4	- 1	- 1	+ 1	+ 1	+ 1	+ 1	+ 2	+ 2	+ 3	+ 3	+ 3	+ 3	+ 3	+ 2	- 3	- 6	- 8	- 7	- 5	- 1	658			
2		+ 1	+ 3	+ 1	- 1	- 4	- 2	- 3	- 3	- 3	- 4	- 2	- 1	0	+ 3	+ 3	+ 3	+ 3	+ 2	+ 2	- 1	- 1	0	+ 3	+ 7	658			
3		+ 7	+10	+ 6	- 2	- 5	- 8	- 9	- 9	- 8	- 7	- 3	- 1	+ 2	+ 4	+ 7	+ 9	+ 7	+ 4	+ 2	- 1	- 1	- 3	- 8	- 5	662			
4		- 3	- 3	- 1	0	- 1	+ 1	+ 3	+ 2	+ 1	0	- 1	- 1	+ 1	0	+ 3	+ 7	+ 5	+ 2	- 2	- 4	- 2	- 3	- 1	+ 3	660			
5		+ 7	+ 3	+ 2	0	0	0	0	+ 1	+ 1	- 1	- 2	0	0	0	+ 2	+ 4	+ 4	+ 2	- 2	- 2	- 2	- 5	- 5	- 6	661			
6		- 4	- 7	- 8	- 7	- 3	0	+ 3	+ 4	+ 5	+ 4	+ 4	+ 4	+ 4	+ 3	+ 4	+ 6	+ 6	+ 4	0	0	+10	- 7	-11	-11	657			
7		- 7	- 6	- 5	- 4	- 2	0	+ 2	+ 3	+ 4	+ 3	+ 2	+ 3	+ 4	+ 3	+ 3	+ 4	+ 4	+ 3	+ 1	- 3	- 6	- 6	- 4	- 4	656			
8		- 4	- 3	- 5	- 5	- 5	- 3	- 1	0	+ 2	+ 2	+ 2	+ 2	+ 1	0	0	+ 1	+ 2	+ 2	+ 2	+ 2	+ 1	0	- 2	+ 3	657			
9		+ 2	- 3	- 7	- 7	- 6	- 4	- 2	0	+ 1	+ 2	+ 4	+ 4	+ 3	+ 3	+ 3	+ 4	+ 5	+ 4	+ 2	+ 2	+ 2	+ 2	0	- 2	652			
10		- 7	- 6	- 6	- 5	- 5	- 7	- 5	- 3	0	+ 2	+ 3	+ 4	+ 4	+ 3	+ 4	+ 2	+ 2	+ 2	+ 2	+ 2	+ 3	+ 4	+ 4	+ 5	655			
11		+ 3	+ 2	- 2	- 3	- 4	- 5	- 5	- 5	- 2	- 1	0	+ 1	+ 1	0	0	0	- 2	- 1	- 2	- 6	- 2	+ 5	+11	+11	659			
12		+10	+ 7	0	- 6	- 8	- 7	- 6	- 5	- 3	0	+ 1	+ 2	+ 3	+ 3	+ 3	+ 1	0	- 1	- 4	- 3	0	+ 4	+ 9	+ 8	660			
13		+ 1	- 6	- 7	- 7	- 7	- 7	- 6	- 4	- 3	- 1	+ 1	+ 2	+ 3	+ 4	+ 4	+ 4	+ 2	+ 1	+ 1	+ 1	+ 4	+ 7	+10	+ 9	660			
14		+ 4	+ 1	+ 1	- 1	- 2	- 3	- 3	- 3	- 3	- 2	- 2	0	+ 1	+ 2	+ 2	+ 2	0	- 1	- 2	0	+ 4	+ 4	+ 2	+ 6	663			
15		+ 5	+ 3	0	- 4	- 6	- 4	- 3	- 3	- 1	- 3	- 1	+ 1	+ 1	+ 3	+ 4	+ 5	+ 4	+ 1	- 1	- 1	- 1	0	+ 3	+ 6	660			
16		+ 8	+ 8	+ 8	+ 7	+ 4	+ 3	+ 2	0	- 1	- 2	- 2	- 2	- 1	+ 2	+ 3	+ 4	+ 4	+2	- 2	- 6	-12	-15	-13	- 4	661			
17		+ 2	- 1	+ 3	+ 3	+ 2	+ 1	- 1	- 4	- 4	- 3	- 4	- 2	0	+ 3	+ 4	+ 6	+ 6	+ 3	- 7	-11	- 8	- 1	+ 8	+11	661			
18		+ 8	+ 8	0	- 8	- 5	- 1	0	+ 2	+ 1	+ 2	+ 2	0	0	+ 1	+ 3	+ 3	+ 4	+ 4	+ 3	0	- 8	-13	- 9	- 5	661			
19		- 1	+ 1	+ 3	+ 3	+ 3	+ 2	+ 3	+ 3	+ 3	+ 1	+ 1	+ 1	0	- 1	0	+ 1	+ 2	+ 1	- 3	- 8	- 8	- 4	- 1	- 3	662			
20		0	- 2	- 8	-12	-12	- 6	- 2	+ 1	+ 2	+ 3	+ 3	+ 4	+ 3	+ 3	+ 3	+ 4	+ 5	+ 5	+ 3	0	- 3	- 2	+ 1	+ 9	656			
+21		+11	+ 8	+ 5	0	- 3	- 5	- 3	- 2	- 1	0	0	- 1	- 1	0	0	0	+ 1	0	- 2	- 3	- 7	- 6	0	- 2	659			
22		+ 2	0	- 5	- 8	- 8	- 7	- 4	0	+ 2	+ 2	+ 2	+ 2	0	0	- 1	0	0	0	+ 2	+ 2	+ 2	+ 4	+ 7	+ 4	657			
23		+ 2	+ 2	+ 1	+ 1	0	- 2	- 2	- 2	- 1	0	0	+ 1	0	0	+ 1	+ 2	+ 2	+ 1	0	0	- 2	- 2	- 2	- 5	659			
24		- 4	- 4	- 6	- 2	- 3	- 3	- 2	0	+ 1	+ 1	+ 2	+ 1	+ 3	+ 2	+ 3	+ 3	+ 2	+ 3	+ 3	+ 3	+ 1	0	- 2	- 4	656			
25		- 2	- 3	- 6	- 4	- 6	- 4	- 3	0	+ 1	+ 1	+ 1	+ 1	0	+ 1	+ 1	+ 1	+ 1	+ 1	0	- 2	0	+ 3	+ 5	+ 5	656			
26		+ 2	0	- 4	- 5	- 3	- 3	- 1	0	0	+ 2	+ 2	+ 3	+ 3	+ 3	+ 3	+ 2	+ 2	0	0	- 2	- 5	- 1	0	0	657			
27		+ 3	+ 1	- 2	- 6	- 7	- 6	- 4	- 2	- 2	0	+ 1	+ 2	+ 3	+ 4	+ 4	+ 4	+ 3	+ 2	+ 1	0	- 1	- 4	- 4	+ 5	656			
28		+ 5	+ 5	+ 5	0	- 2	- 2	- 2	- 4	- 1	- 1	- 1	0	+ 2	+ 5	+ 4	+ 3	+ 3	+ 1	- 1	- 5	- 7	- 7	- 8	- 4	658			
29		+ 1	+ 1	+ 1	- 2	- 3	- 4	- 4	- 2	- 2	- 2	0	+ 2	+ 2	+ 3	+ 4	+ 4	+ 4	+ 3	0	- 3	- 4	- 2	- 2	- 2	656			
30		- 4	- 5	- 5	- 5	- 5	- 4	- 2	- 1	0	- 1	0	+ 1	+ 2	+ 3	+ 3	+ 4	+ 4	+ 3	0	- 2	- 1	+ 1	+ 2	+ 3	658			
31		+ 7	+10	+ 8	+ 4	+ 2	0	0	0	0	- 1	- 1	- 1	0	+ 2	+ 2	+ 3	+ 2	0	- 3	- 5	- 7	- 9	-12	- 9	657			
MEAN.		+ 2	+ 1	- 1	- 3	- 3	- 3	- 2	- 1	0	0	+ 1	+ 1	+ 2	+ 2	+ 3	+ 3	+ 3	+ 2	0	- 2	- 2	- 2	- 1	+ 1	658			

200/1/41—14357

Vertical Intensity

G.M.T. (Z = 20000γ + Mean + ...) February 1942.

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	- 2	- 6	-12	- 9	- 4	- 2	+ 1	+ 2	+ 3	+ 3	+ 3	+ 4	+ 4	+ 6	+ 5	+ 7	+ 7	+ 7	+ 2	- 2	- 3	- 4	- 6	- 6	650			
2	- 7	- 1	+ 2	+ 2	0	- 2	- 1	- 2	- 3	- 5	- 1	- 1	0	+ 1	+ 4	+ 5	+ 5	+ 2	- 1	- 2	- 2	+ 1	+ 2	+ 1	655			
3	- 1	- 2	- 3	- 5	- 5	- 3	0	0	0	0	0	0	0	+ 1	+ 2	+ 3	+ 3	+ 1	0	+ 1	+ 3	+ 3	+ 1	0	656			
4	+ 1	- 1	- 1	- 2	- 3	- 2	- 1	0	0	0	0	0	+ 1	+ 2	+ 3	+ 3	+ 3	0	- 5	- 6	- 5	- 4	+ 1	+ 5	654			
5	+ 1	- 4	- 7	- 5	- 7	- 7	- 3	- 1	+ 3	+ 2	+ 4	+ 3	+ 2	+ 1	+ 4	+ 8	+ 7	+ 5	- 1	- 1	0	- 1	+ 2	+ 4	653			
6	+ 8	+ 1	- 7	- 7	- 7	- 4	- 1	+ 1	+ 2	+ 3	+ 2	+ 9	+ 6	+ 6	+ 7	+ 8	+10	+ 9	+ 1	- 5	-11	- 9	- 9	- 7	651			
7	- 9	- 8	-10	-10	- 9	- 6	- 3	0	+ 1	+ 3	+ 5	+ 4	+ 3	+ 3	+ 3	+ 3	+ 3	+ 3	+ 1	0	+ 2	+ 5	+ 6	+ 1	656			
8	0	- 3	- 4	- 2	- 2	- 3	- 2	+ 1	+ 1	+ 3	+ 2	+ 3	+ 3	+ 3	+ 1	+ 1	+ 1	0	- 1	- 2	- 1	+ 1	+ 3	+ 3	656			
9	0	- 2	- 2	- 3	- 2	- 2	- 2	0	0	0	+ 1	+ 3	+ 3	+ 3	+ 4	+ 4	+ 4	+ 2	- 2	- 4	- 6	- 4	- 2	0	656			
10	0	- 1	- 3	- 6	- 6	- 5	- 3	- 2	0	+ 3	+ 5	+ 5	+ 5	+ 8	+ 7	+ 5	+ 2	- 1	- 2	- 4	- 4	- 1	+ 3	+ 6	654			
11	+ 6	+ 6	+ 3	- 1	- 2	- 3	- 3	- 1	0	+ 2	+ 3	+ 3	+ 5	+ 6	+ 6	+ 4	+ 4	+ 1	- 3	- 9	-11	- 9	- 7	- 3	657			
12	+ 3	+ 2	- 1	- 4	- 3	- 4	- 2	- 1	0	+ 2	+ 3	+ 5	+ 7	+ 7	+ 8	+ 7	+ 7	+ 5	0	-16	- 6	- 8	- 2	+ 2	654			
13	+ 2	- 1	- 3	- 3	- 3	- 3	- 2	- 1	- 2	- 2	- 1	+ 1	+ 2	+ 4	+ 5	+ 6	+ 5	+ 3	-1	- 6	- 7	- 6	+ 1	+ 5	655			
14	+ 6	+ 4	+ 1	+ 2	+ 2	+ 2	+ 3	+ 3	+ 1	+ 1	+ 1	+ 2	+ 4	+ 6	+ 7	+ 9	+ 8	+ 6	0	- 7	-13	-17	-18	-13	653			
15	-10	- 9	- 7	- 6	- 7	- 6	- 6	- 4	- 3	- 1	+ 1	+ 2	+ 3	+ 6	+ 8	+ 9	+ 9	+ 6	+ 2	- 1	- 2	- 1	+ 2	+ 9	655			
16	+10	+ 5	+ 2	- 2	0	- 1	0	0	- 1	- 1	0	+ 2	+ 3	+ 3	+ 5	+ 7	+ 7	+ 6	+ 3	- 2	-10	-14	-17	-13	654			
17	- 5	- 2	- 3	- 3	- 4	- 4	- 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 3	+ 3	+ 4	+ 6	+ 6	+ 6	+ 3	- 3	- 5	- 5	- 4	+ 3	653			
18	+ 4	+ 4	+ 1	0	- 3	- 4	- 2	0	+ 1	+ 1	+ 2	+ 2	+ 2	+ 3	+ 4	+ 4	+ 4	+ 4	+ 2	- 3	- 6	- 9	-11	- 9	653			
19	- 4	- 1	- 1	- 4	- 5	- 5	- 2	- 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 2	+ 2	+ 2	+ 2	+ 1	+ 1	- 3	+ 1	655			
20	+ 6	+ 7	+ 6	+ 3	+ 2	- 1	- 2	- 3	- 3	- 2	- 2	- 2	- 2	- 1	0	0	+ 2	+ 3	+ 3	+ 2	0	- 4	- 5	- 4	654			
21	- 3	- 1	- 5	- 8	- 9	- 7	- 3	- 2	- 1	0	+ 3	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 3	+ 1	+ 1	+ 2	+ 7	653			
22	+ 3	+ 3	+ 2	+ 1	- 1	- 1	- 1	+ 1	+ 1	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	+ 1	- 1	- 5	- 7	- 6	- 4	- 1	658		
23	+ 3	- 1	- 2	- 5	- 7	- 6	- 4	- 2	0	+ 2	+ 4	+ 4	+ 5	+ 8	+ 5	+ 2	+ 1	+ 2	+ 2	- 2	- 5	- 5	- 3	+ 2	655			
24	+ 2	+ 1	0	- 1	- 2	0	+ 3	+ 2	0	+ 1	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 3	+ 3	0	- 2	- 4	- 8	-11	-11	660			
25	- 5	- 8	-11	-10	- 9	- 9	- 5	- 3	- 1	+ 2	+ 5	+ 5	+ 6	+ 8	+ 8	+ 8	+ 9	+ 7	+ 5	+ 1	- 3	- 2	- 1	- 1	655			
26	- 2	- 3	- 3	- 2	- 3	- 3	- 3	- 1	0	0	+ 2	+ 3	+ 4	+ 6	+ 6	+ 6	+ 5	+ 3	- 1	- 5	- 7	- 7	- 4	+ 2	657			
27	+ 4	+ 4	+ 3	- 1	- 6	- 7	- 5	- 3	- 1	0	0	+ 2	+ 3	+ 4	+ 4	+ 6	+ 6	+ 4	0	- 4	- 8	- 8	- 4	0	657			
28	+ 5	+ 2	0	- 1	- 3	- 3	- 3	- 3	- 2	+ 2	+ 2	+ 3	+ 6	+ 6	+ 5	+ 5	+ 6	+ 7	+ 3	0	- 6	-12	-16	-14	654			
29																												
30																												
31																												
MEAN.	+ 1	0	- 2	- 3	- 4	- 4	- 2	- 1	0	+ 1	+ 2	+ 3	+ 3	+ 4	+ 5	+ 5	+ 5	+ 4	+ 1	- 3	- 4	- 5	- 4	- 1	655			

[200/1/39—17185

Vertical Intensity

(Z = 20000γ + Mean + ...)

G.M.T. March 1942.

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
	-14	- 8	- 4	- 4	- 4	- 4	- 3	+ 7	+16	- 9	-18	-14	-12	- 2	+ 5	+ 9	+11	+10	+ 7	+ 5	+ 2	+ 5	+ 8	+14	656			
1	0	- 4	- 2	- 2	- 2	0	+ 1	+ 3	+ 2	+ 2	+ 2	+ 2	+ 4	+ 3	+ 4	+ 4	+ 4	+ 4	0	- 3	- 5	- 8	- 8	- 5	664			
2	+ 2	+ 3	+ 1	- 1	- 3	- 2	- 1	0	- 2	- 1	- 3	- 2	+ 1	+ 1	+ 5	+ 6	+ 4	+ 4	+ 4	+ 1	- 3	- 8	- 9	- 5	663			
3	- 1	+ 3	+ 1	0	+ 1	+ 1	+ 2	+ 2	+ 1	- 1	0	- 1	0	+ 2	+ 4	+ 4	+ 4	+ 4	+ 4	+ 1	- 4	- 9	-12	-14	665			
4	-10	- 6	- 2	- 1	+ 2	+ 1	- 3	- 2	+ 1	+ 2	+ 2	+ 2	+ 3	+ 3	+ 5	+ 7	+ 5	+ 9	+ 5	- 2	- 5	- 5	- 2	+ 1	663			
5																												
6	- 1	- 3	- 5	- 8	- 7	- 3	- 1	+ 1	+ 3	+ 3	+ 1	+ 3	+ 2	+ 3	+ 3	+ 4	+ 5	+ 5	+ 4	+ 1	- 3	- 3	- 5	- 5	665			
7	0	- 4	- 3	- 3	- 4	- 4	- 2	0	0	+ 2	+ 2	+ 6	+ 3	+ 2	+ 4	+ 5	+ 4	+ 6	+ 4	0	- 1	- 5	- 7	- 5	663			
8	- 5	- 9	-11	-16	-12	- 8	- 4	- 3	- 1	+ 2	+ 3	+ 6	+ 7	+ 5	+ 6	+ 7	+ 9	+ 8	+ 6	+ 3	+ 1	- 1	- 2	- 3	660			
9	- 9	-11	- 9	- 9	-10	- 2	+ 1	+ 1	+ 3	+ 5	+ 6	+ 6	+ 8	+ 6	+ 6	+ 7	+ 5	+ 7	+ 5	+ 2	0	- 4	- 6	- 5	665			
10	- 1	- 2	- 3	- 6	- 7	- 4	- 2	0	+ 1	+ 2	+ 2	+ 5	+ 4	+ 4	+ 4	+ 5	+ 4	+ 1	0	+ 1	- 1	0	- 2	- 4	665			
11	- 2	- 8	- 9	- 7	- 5	- 5	- 3	0	+ 3	+ 4	+ 6	+ 7	+ 8	+ 8	+ 7	+ 7	+ 6	+ 5	+ 4	0	- 4	- 5	- 7	- 7	660			
+ 12	- 8	- 5	- 3	- 2	- 2	- 1	0	0	0	+ 1	+ 2	+ 4	+ 4	+ 4	+ 5	+ 5	+ 4	+ 4	+ 1	- 1	- 2	- 2	- 2	+ 2	662			
13	+ 5	0	+ 2	+ 1	- 5	- 4	- 3	- 2	- 3	- 4	- 1	+ 1	+ 4	+ 6	+ 7	+ 7	+ 6	+ 4	+ 1	- 4	- 5	- 7	- 5	- 1	661			
14	0	+ 1	+ 2	+ 1	+ 1	+ 1	- 1	- 5	- 6	- 3	+ 1	+ 5	+ 7	+ 7	+ 5	+ 5	+ 5	+ 3	+ 1	- 2	- 3	- 4	- 4	- 5	664			
15	- 2	0	0	0	- 2	- 3	- 4	- 4	- 2	0	+ 1	+ 2	+ 4	+ 8	+ 8	+ 6	+ 6	+ 4	+ 4	0	- 3	- 3	- 5	- 5	663			
+ 16	- 1	+ 2	+ 1	0	0	0	0	- 1	0	0	0	0	+ 2	+ 2	+ 4	+ 4	+ 5	+ 4	+ 2	0	- 4	- 5	- 5	- 2	663			
17	+ 1	0	0	- 1	+ 1	+ 1	- 1	- 2	- 2	- 1	- 1	0	+ 1	+ 2	+ 3	+ 4	+ 5	+ 6	+ 5	+ 2	- 3	- 7	- 8	- 9	662			
18	- 9	- 8	- 7	- 5	- 4	- 2	- 1	0	+ 1	0	+ 1	+ 2	+ 3	+ 4	+ 3	+ 3	+ 7	+ 6	+ 7	+ 5	+ 3	+ 2	- 1	- 2	660			
19	- 4	- 2	- 2	- 2	- 2	- 4	- 3	0	+ 1	+ 1	0	- 1	- 2	- 2	0	+ 2	+ 4	+ 5	+ 4	+ 4	+ 2	- 2	- 2	- 5	664			
20	- 6	- 9	-10	- 9	- 6	- 3	- 1	+ 3	+ 3	+ 2	+ 1	+ 3	+ 4	+ 4	+ 5	+ 5	+ 5	+ 6	+ 5	+ 3	0	- 2	- 2	- 1	663			
21	0	- 3	- 5	- 8	- 8	- 8	- 9	- 9	- 9	- 3	- 1	+ 1	+ 4	+ 6	+ 6	+ 7	+ 7	+ 8	+ 7	+ 3	0	+ 2	+ 2	0	662			
22	- 4	- 4	- 6	- 8	- 8	- 5	- 4	+ 1	+ 1	+ 1	+ 4	+ 3	+ 3	+ 4	+ 5	+ 5	+ 5	+ 5	+ 5	+ 4	+ 2	0	0	- 2	663			
23	- 2	- 3	- 4	- 4	- 5	- 3	- 2	- 2	- 1	0	0	+ 2	+ 2	+ 4	+ 3	+ 4	+ 4	+ 4	+ 5	+ 4	0	- 3	- 4	- 5	663			
24	- 6	- 4	- 3	- 4	- 7	- 7	- 4	- 2	+ 1	+ 4	+ 5	+ 5	+ 5	+ 4	+ 4	+ 5	+ 5	+ 5	+ 5	+ 2	0	- 2	- 3	- 4	662			
+ 25	- 4	- 5	- 6	- 6	- 6	- 4	- 2	- 2	0	0	+ 3	+ 3	+ 5	+ 3	+ 3	+ 4	+ 5	+ 5	+ 5	+ 3	0	- 1	- 1	0	660			
26	- 1	- 1	0	- 1	- 2	- 3	0	+ 1	+ 1	- 1	- 3	- 2	- 1	+ 1	0	+ 3	+ 5	+ 4	+ 4	0	- 4	- 5	- 5	- 2	660			
+ 27	- 4	- 4	- 6	- 6	- 6	- 4	- 3	- 2	- 1	0	+ 1	+ 3	+ 4	+ 5	+ 6	+ 7	+ 7	+ 7	+ 3	0	- 3	- 4	- 5	- 5	661			
+ 28	- 5	- 5	- 4	- 2	- 4	- 4	- 4	- 4	- 2	- 1	0	+ 2	+ 3	+ 3	+ 3	+ 4	+ 5	+ 5	+ 3	+ 3	+ 4	+ 3	+ 3	+ 3	661			
29	+ 2	+ 2	+ 2	0	- 4	- 5	- 5	- 5	- 4	- 3	- 1	0	+ 1	+ 2	+ 5	+ 4	+ 4	+ 2	+ 2	+ 1	- 1	- 1	- 1	+ 1	662			
30	+ 1	- 3	- 5	- 6	- 3	- 2	- 2	- 3	- 2	- 2	- 1	+ 1	+ 2	+ 3	+ 4	+ 4	+ 4	+ 4	+ 4	- 1	- 2	- 1	- 1	- 1	662			
31	- 1	- 3	- 1	- 1	- 1	- 1	- 1	- 1	- 2	- 2	0	+ 2	+ 3	+ 4	+ 6	+ 6	+ 6	+ 6	+ 4	+ 1	- 1	- 3	- 8	-10	663			
MEAN.	- 3	- 3	- 3	- 4	- 4	- 3	- 2	- 1	0	0	0	+ 2	+ 3	+ 3	+ 4	+ 5	+ 5	+ 5	+ 4	+ 1	- 1	- 3	- 4	- 3	663			

[200/1/39—17185

Vertical Intensity

G.M.T. (Z = 20000γ + Mean + ...) April 1942.

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	- 8	- 5	- 5	- 3	- 2	+ 1	+ 3	+ 1	- 1	- 2	- 1	0	+ 1	+ 4	+ 2	+ 3	+ 4	+ 4	+ 5	+ 3	+ 1	+ 1	+ 1	+ 2	661			
2	0	- 3	- 5	- 6	- 4	- 2	- 2	- 2	- 4	- 8	- 9	- 7	- 7	- 3	+ 3	+ 4	+ 7	+ 6	+ 6	+ 5	+ 3	+ 4	+ 5	+ 7	664			
3	0	- 1	0	- 2	- 6	- 6	- 4	- 5	- 4	- 3	0	+ 3	+ 5	+ 5	+ 9	+ 8	+ 8	+ 7	+ 5	+ 5	- 1	- 4	- 6	- 8	668			
4	- 7	- 9	- 9	- 7	- 2	- 1	- 8	- 3	- 1	0	0	0	+ 1	+ 4	+ 8	+10	+ 8	+ 7	+ 8	+ 4	0	+ 2	- 1	- 3	665			
5	- 7	- 8	- 6	- 5	- 2	0	+ 2	+ 2	+ 2	+ 4	+ 4	+ 2	+ 2	+ 4	+ 4	+ 4	+ 4	+ 4	+ 2	- 1	- 3	- 2	- 3	- 5	667			
6	- 6	- 8	-10	-11	- 9	- 5	- 1	+ 1	+ 2	+ 3	+ 3	+ 3	+ 3	+ 4	+ 3	+ 3	+ 3	+ 4	+ 5	+ 4	+ 4	+ 4	+ 3	+ 1	666			
+ 7	- 2	- 6	- 7	- 5	- 3	- 2	- 2	0	+ 2	+ 2	+ 3	+ 3	+ 3	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	0	+ 1	+ 2	+ 2	667			
8	0	- 3	- 9	- 9	- 9	- 5	- 4	- 7	- 7	- 2	+ 2	+ 5	+ 6	+ 5	+ 5	+ 6	+ 4	+ 3	+ 4	+ 4	+ 4	+ 5	+ 6	+ 4	667			
9	- 1	- 8	-11	-12	-10	- 7	- 4	- 3	- 1	+ 1	+ 3	+ 5	+ 5	+ 4	+ 5	+ 4	+ 4	+ 3	+ 3	+ 3	+ 3	+ 3	+ 3[I]	+ 3[II]	668			
10																												
11																												
12	- 2	- 3	- 1	0	+ 1	0	- 2	- 3	- 2	- 1	- 1	0	+ 1	+ 3	+ 3	+ 3	+ 2	+ 2	+ 1	- 1	- 2	- 2	- 2	- 3	667			
13	- 3	0	0	+ 1	+ 1	- 1	- 3	- 3	- 1	- 1	- 1	0	+ 1	+ 2	+ 7	+ 4	+ 3	+ 2	+ 1	0	- 5	- 6	- 5	- 4	665			
14	- 4	-11	-14	- 5	+ 1	+ 1	+ 1	0	- 2	0	+ 1	+ 1	+ 1	+ 2	+ 3	+ 5	+ 5	+ 3	+ 2	0	0	+ 1	0	0	664			
15	+ 3	+ 1	0	+ 1	+ 1	0	- 1	- 1	- 1	- 1	0	+ 1	+ 3	+ 4	+ 4	+ 5	+ 5	+ 5	+ 4	+ 2	- 2	- 8	- 8	- 9	661			
16	- 8	- 8	- 7	- 7	- 7	- 7	- 7	- 8	- 4	- 2	- 1	- 1	+ 1	+ 2	+ 5	+ 5	+ 7	+ 7	+ 9	+ 9	+ 7	+ 8	+ 6	+ 2	660			
17	- 9	-16	-15	-13	- 7	- 4	- 9	- 6	- 6	- 4	+ 5	+ 4	+ 4	+ 5	+ 8	+10	+ 8	+ 8	+ 8	+ 8	+ 6	+ 5	+ 1	+ 1	666			
18	0	- 5	- 7	- 4	- 2	- 4	- 5	- 5	- 3	- 2	+ 1	0	0	+ 1	+ 5	+ 7	+ 5	+ 6	+ 5	+ 5	+ 5	+ 5	+ 3	- 2	664			
19	- 4	- 6	- 6	- 6	- 4	0	- 1	0	+ 2	+ 4	+ 4	+ 2	+ 2	+ 4	+ 4	+ 5	+ 5	+ 6	+ 7	+ 4	+ 1	- 3	- 5	- 6	665			
20	- 9	-12	-12	- 9	- 7	- 3	- 2	- 1	0	+ 1	+ 2	+ 2	+ 2	+ 2	+ 3	+ 4	+ 5	+ 7	+ 7	+ 9	+ 7	+ 5	+ 2	- 3	662			
+21	- 5	- 9	-15	-14	-10	- 6	- 4	- 2	- 2	0	+ 1	+ 3	+ 3	+ 4	+ 5	+ 5	+ 6	+ 6	+ 6	+ 9	+ 8	+ 7	+ 4	+ 2	661			
+22	- 2	- 6	- 8	- 7	- 6	- 5	- 3	- 2	- 1	+ 1	+ 2	+ 3	+ 3	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 3	0	- 1	- 2	- 4	662			
23	- 1	- 3	- 5	- 5	- 3	- 1	- 3	0	+ 2	0	- 3	- 5	- 5	- 1	+ 1	+ 1	+ 4	+ 4	+ 5	+ 5	+ 6	+ 6	+ 5	+ 1	660			
24	- 5	- 8	-11	- 8	- 4	- 2	- 3	- 2	- 2	- 1	+ 1	+ 1	+ 3	+ 3	+ 4	+ 4	+ 4	+ 4	+ 4	+ 6	+ 5	+ 4	+ 3	0	661			
+25	- 2	- 7	-11	-11	- 7	- 5	- 3	- 2	- 1	0	+ 1	+ 2	+ 4	+ 4	+ 4	+ 4	+ 3	+ 4	+ 4	+ 5	+ 6	+ 7	+ 7	+ 5	660			
+26	+ 2	- 1	- 3	- 3	- 5	- 5	- 4	- 4	- 3	- 1	+ 1	+ 2	+ 3	+ 4	+ 4	+ 4	+ 4	+ 4	+ 3	+ 4	+ 4	+ 2	+ 1	0	- 2	660		
27	- 3	- 4	- 4	- 4	- 3	- 3	- 3	- 3	- 2	- 2	- 1	0	+ 2	+ 2	+ 2	+ 2	+ 3	+ 2	+ 1	+ 1	+ 1	+ 2	+ 5	+ 3	659			
28	- 7	- 9	- 8	- 5	- 5	- 3	- 2	- 2	- 1	0	+ 2	+ 3	+ 4	+ 4	+ 5	+ 5	+ 4	+ 4	+ 3	+ 3	+ 2	0	0	+ 1	662			
29	- 1	- 3	- 3	- 2	- 2	- 2	- 3	- 2	- 2	- 1	0	0	+ 2	+ 2	+ 3	+ 4	+ 3	+ 3	+ 3	+ 2	+ 1	- 1	- 1	- 1	662			
30	+ 1	+ 1	+ 2	+ 2	+ 1	0	- 1	- 1	- 1	- 1	- 1	- 1	- 1	0	0	+ 1	+ 3	+ 2	+ 2	+ 2	0	- 2	- 2	- 1	660			
31																												
MEAN.	- 3	- 6	- 7	- 6	- 4	- 3	- 3	- 2	- 2	- 1	+ 1	+ 1	+ 1	+ 2	+ 3	+ 4	+ 4	+ 5	+ 4	+ 4	+ 4	+ 2	+ 1	+ 1	- 1	663			

200/1/41—14357]

Vertical Intensity

(Z = 20000γ + Mean + ...)

G.M.T. May 1942.

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	- 2	- 4	- 3	- 1	- 1	- 5	- 7	- 8	- 7	- 3	0	+ 2	+ 4	+ 5	+ 7	+ 9	+ 9	+ 8	+ 7	+ 4	0	- 1	- 5	- 5	660			
2	- 4	- 4	- 3	- 2	- 2	- 2	- 2	- 1	- 2	- 4	- 4	- 4	- 2	0	+ 4	+ 8	+ 8	+ 8	+ 7	+ 6	+ 5	+ 1	- 3	- 6	661			
3	- 7	- 7	- 7	- 2	- 1	- 1	+ 1	+ 1	0	- 1	- 1	0	0	+ 1	+ 1	+ 3	+ 4	+ 5	+ 5	+ 4	+ 3	0	- 1	- 3	661			
4	- 3	- 4	- 5	- 6	- 2	- 1	- 1	- 2	- 1	- 1	- 1	0	0	0	+ 1	+ 3	+ 4	+ 5	+ 6	+ 5	+ 5	+ 4	+ 1	- 2	661			
5	- 5	- 9	- 9	- 8	- 8	- 7	- 4	- 3	- 1	+ 2	+ 2	+ 3	+ 5	+ 4	+ 3	+ 3	+ 4	+ 5	+ 5	+ 5	+ 5	+ 4	+ 4	+ 4	664			
6	+ 2	+ 1	0	0	- 1	- 2	+ 1	+ 1	0	0	+ 1	+ 1	+ 2	+ 2	+ 2	+ 2	+ 2	+ 1	+ 2	+ 2	0	- 2	- 4	- 4	664			
7	- 2	- 1	- 2	- 1	- 2	- 4	- 2	- 1	0	+ 1	+ 2	+ 4	+ 4	+ 3	+ 3	+ 2	+ 2	+ 3	+ 4	+ 3	+ 2	- 3	- 6	- 9	661			
8	- 8	- 4	- 4	- 4	- 4	- 3	- 3	- 2	- 1	- 1	0	0	+ 1	+ 1	+ 1	+ 1	+ 2	+ 3	+ 4	+ 4	+ 3	+ 3	+ 2	+ 1	659			
+ 9																												
10																												
11																												
+12																												
+13																												
14	- 6	- 6	- 3	- 2	- 3	- 6	-10	-15	-14	-12	- 4	0	+ 3	+ 6	+ 8	+ 9	+ 9	+ 9	+ 9	+ 8	+ 7	+ 5	+ 1	0	663			
15	- 2	- 1	0	0	- 1	- 3	- 4	- 3	- 4	- 3	0	+ 2	+ 2	+ 3	+ 3	+ 4	+ 5	+ 5	+ 5	+ 3	+ 1	- 1	- 3	- 6	666			
16	- 6	- 4	- 2	- 2	- 2	- 2	- 3	- 4	- 4	- 4	- 4	- 3	- 2	- 1	- 1	+ 1	+ 2	+ 2	+ 3	+ 4	+ 7	+ 9	+ 7	+ 4	667			
17	+ 1	- 1	- 2	- 2	- 1	- 1	- 1	- 1	- 2	- 2	- 2	- 1	0	+ 1	+ 1	+ 2	+ 3	+ 3	+ 4	+ 3	+ 3	+ 1	+ 1	- 1	668			
18	- 5	- 4	- 3	- 2	- 2	- 3	- 2	- 1	- 1	0	0	0	+ 1	+ 1	+ 2	+ 3	+ 3	+ 3	+ 3	+ 3	+ 1	+ 1	0	- 1	668			
19	0	- 1	- 2	- 2	- 2	- 2	- 2	- 2	- 1	- 1	0	0	0	0	+ 1	+ 2	+ 2	+ 3	+ 5	+ 6	+ 3	0	- 3	- 5	665			
20	- 4	- 4	- 5	- 4	- 2	- 2	- 2	- 3	- 2	- 1	+ 1	+ 1	+ 1	+ 1	+ 2	+ 5	+ 6	+ 5	+ 5	+ 5	+ 5	+ 1	- 4	- 5	664			
21	- 6	- 5	- 6	- 3	- 2	- 1	- 2	- 1	0	0	0	0	0	0	0	+ 1	+ 2	+ 3	+ 5	+ 6	+ 6	+ 6	+ 4	+ 2	665			
22	- 3	- 4	- 1	0	+ 1	- 1	- 1	- 2	- 3	- 2	0	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 2	0	- 1	- 1	- 3	666			
23	- 5	- 5	- 4	- 2	- 1	- 1	- 1	0	0	0	0	0	0	0	0	0	+ 1	+ 1	+ 2	+ 3	+ 2	+ 2	+ 1	0	667			
24	0	- 2	- 2	- 2	- 2	- 2	- 2	- 1	0	0	+ 1	+ 1	+ 1	0	+ 1	0	+ 1	+ 1	+ 2	+ 2	+ 2	+ 2	+ 2	0	665			
25	- 3	- 1	+ 2	+ 2	+ 1	0	- 1	- 1	- 1	- 1	0	+ 1	+ 1	+ 2	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	- 1	- 1	666			
+26	+ 1	0	0	+ 1	0	0	- 1	- 1	0	0	0	+ 1	+ 2	+ 2	+ 2	+ 2	+ 2	+ 1	+ 2	+ 1	0	- 4	- 5	- 5	663			
27	- 2	0	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 3	- 4	- 1	+ 2	+ 5	+ 5	+ 5	+ 3	+ 3	+ 3	+ 3	0	- 3		660			
28	- 5	- 4	- 2	0	- 2	- 7	- 8	- 6	- 3	- 1	0	+ 1	+ 2	+ 5	+ 4	+ 5	+ 4	+ 3	+ 3	+ 3	+ 2	+ 2	+ 1	- 1	663			
29	- 2	- 2	- 2	- 2	- 2	- 2	- 1	- 1	- 1	- 1	- 1	- 1	- 1	0	+ 1	+ 1	+ 2	+ 2	+ 3	+ 3	+ 1	+ 1	- 2	- 2	664			
30	- 1	- 3	0	0	0	0	0	- 1	- 1	- 1	- 1	- 1	0	+ 1	+ 2	+ 3	+ 4	+ 4	+ 4	+ 2	0	0	- 2	- 3	663			
+31	- 3	- 3	- 2	+ 1	+ 1	+ 1	+ 1	0	- 2	- 3	- 3	- 3	- 1	0	+ 1	+ 2	+ 3	+ 3	+ 4	+ 4	+ 3	+ 2	- 1	- 5	661			
MEAN.	- 3	- 3	- 3	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 1	0	+ 1	+ 2	+ 2	+ 3	+ 3	+ 3	+ 4	+ 4	+ 3	+ 1	- 1	- 2	664			

200/1/41—14357]

Vertical Intensity

G.M.T. (Z = 20000γ + Mean + ...) June 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	- 7	- 5	- 2	0	0	0	0	0	0	0	- 1	- 1	- 1	0	+ 1	+ 1	+ 3	+ 3	+ 5	+ 6	+ 5	+ 1	+ 1	+ 1	661			
+ 2	0	- 5	- 7	- 4	- 4	- 3	- 2	0	- 1	- 1	- 1	- 1	- 2	- 1	0	0	+ 1	+ 1	+ 4	+ 7	+ 7	+ 5	+ 5	+ 3	661			
3	+ 1	- 1	- 1	0	- 1	- 1	0	0	- 1	- 1	- 1	- 2	- 2	- 3	- 3	- 1	0	+ 1	+ 3	+ 5	+ 5	+ 5	+ 3	+ 4	661			
4	+ 2	+ 1	0	- 4	- 5	- 5	- 4	- 2	0	+ 1	+ 1	+ 1	+ 1	+ 1	0	0	0	+ 1	+ 1	+ 3	+ 4	+ 4	+ 3	0	661			
5																												
6																												
+ 7	+ 2	+ 2	+ 1	- 1	- 5	- 4	- 4	- 3	- 2	- 1	- 1	+ 1	+ 2	+ 3	+ 3	+ 3	+ 3	+ 2	+ 3	+ 3	+ 3	+ 1	- 1	- 4	663			
8	- 1	- 1	- 3	- 2	- 1	- 1	0	0	0	0	+ 1	+ 1	+ 1	+ 1	+ 2	+ 2	+ 1	+ 1	+ 1	+ 2	+ 1	- 1	- 3	- 6	660			
+ 9	- 6	- 5	- 4	- 5	- 5	- 4	- 3	- 3	- 2	- 2	0	0	+ 2	+ 2	+ 3	+ 3	+ 3	+ 3	+ 3	+ 4	+ 4	+ 3	+ 1	+ 1	659			
+10	- 1	- 2	- 2	- 2	- 2	- 1	- 1	- 1	0	0	+ 2	+ 2	+ 3	+ 3	+ 3	+ 3	+ 2	+ 2	+ 2	+ 1	- 2	- 5	- 5	- 6	659			
11	- 4	- 5	- 4	- 1	0	+ 2	0	0	0	+ 1	+ 1	+ 2	+ 4	+ 3	+ 4	+ 6	+ 6	+ 7	0	- 1	(- 2)	- 7	- 7	- 9	658			
12	- 8	-11	- 8	- 5	- 3	- 3	- 3	- 3	- 4	- 4	- 3	- 1	0	+ 1	+ 2	+ 2	+ 7	+ 6	+ 7	+ 6	+ 5	+ 4	+ 3	+ 1	655			
13	- 5	- 8	- 5	- 2	0	0	- 1	- 1	- 1	0	+ 1	+ 1	+ 1	+ 2	+ 2	+ 2	+ 3	+ 4	+ 5	+ 4	+ 2	+ 1	0	- 2	656			
14	- 3	- 1	0	0	0	- 1	0	0	0	0	0	0	0	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	(+ 2)	(- 1)	(- 3)	- 5	- 5	657			
15	- 7	- 5	- 5	- 5	- 3	- 2	0	- 1	- 2	- 2	0	0	0	+ 1	+ 2	+ 2	+ 2	+ 3	+ 3	+ 5	+ 5	+ 7	+ 9	+ 4	659			
16	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	+ 1	+ 2	+ 3	+ 3	+ 5	+ 3	+ 3	+ 2	0	- 2	663			
17	- 2	- 1	0	- 1	- 1	- 1	- 1	- 1	- 1	- 2	- 1	- 1	- 1	- 1	0	+ 1	+ 1	+ 1	+ 3	+ 5	+ 5	+ 5	+ 3	- 1	663			
18	- 3	- 6	- 8	- 7	- 5	- 4	- 2	- 1	0	0	0	0	0	0	0	0	0	0	+ 2	+ 4	+ 4	+ 4	+ 6	+ 6	662			
19	+ 2	- 2	- 2	- 3	- 2	- 2	- 2	- 1	- 1	- 1	- 1	- 1	- 2	- 3	- 2	- 1	- 1	0	+ 2	+ 3	+ 5	+ 5	+ 3	- 1	663			
20	- 2	- 3	- 3	- 4	- 5	- 3	- 1	- 1	- 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 3	+ 4	+ 5	+ 3	+ 3	+ 1	663			
21	- 2	- 3	- 3	- 2	- 3	- 3	- 2	- 2	- 1	0	0	- 1	- 1	- 1	- 2	- 1	0	0	+ 2	+ 4	+ 4	+ 5	+ 5	+ 4	664			
+22	+ 5	+ 3	+ 1	0	- 1	- 1	- 1	- 1	- 1	0	0	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 2	+ 3	+ 2	+ 1	- 1	- 6	663			
23	- 4	- 4	- 2	0	0	- 1	- 2	- 2	0	- 1	- 1	0	0	0	0	0	0	0	0	+ 1	+ 3	+ 4	+ 5	+ 5	661			
24	- 1	- 4	- 5	- 4	- 2	- 2	- 2	- 2	- 2	- 1	- 1	+ 1	+ 1	+ 2	+ 2	+ 3	+ 2	+ 1	+ 1	+ 1	+ 2	+ 2	+ 3	+ 1	663			
25																												
26	- 4	- 1	+ 2	+ 2	- 1	- 3	- 4	- 4	- 4	- 4	- 1	+ 1	+ 3	+ 4	+ 6	+ 6	+ 4	+ 3	+ 3	+ 1	0	0	0	- 1	660			
27	- 3	- 2	0	+ 1	0	- 1	- 1	- 3	- 3	- 3	- 2	- 1	0	+ 2	+ 3	+ 4	+ 3	+ 3	+ 3	+ 3	+ 2	0	- 2	- 1	661			
28	0	0	0	0	0	- 1	- 3	- 4	- 5	- 5	- 3	- 2	- 1	0	+ 2	+ 4	+ 7	+ 7	+ 6	+ 5	+ 2	- 3	- 5	- 7	661			
29	-13	-13	-11	- 7	- 5	- 3	- 3	- 3	- 2	- 3	- 3	- 1	0	+ 2	+ 3	+ 4	+ 6	+ 7	+ 7	+ 7	+ 6	+ 6	+ 5	+ 3	664			
30	- 4	- 9	- 9	- 6	- 7	- 5	- 2	0	+ 2	+ 2	0	0	+ 1	+ 1	+ 2	+ 3	+ 5	+ 5	+ 5	+ 5	+ 5	+ 3	+ 3	+ 4	665			
31																												
MEAN.	- 3	- 3	- 3	- 2	- 2	- 2	- 2	- 2	- 1	- 1	- 1	0	0	+ 1	+ 1	+ 2	+ 2	+ 3	+ 3	+ 4	+ 3	+ 2	+ 1	- 1	661			

Vertical Intensity

(Z = 20000γ + Mean + ...)

G.M.T.

July 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
	+ 2	- 4	- 6	- 5	- 2	0	0	- 3	- 2	- 1	- 2	- 3	- 2	0	0	+ 2	+ 2	+ 4	+ 5	+ 5	+ 5	+ 3	+ 1	- 3	666			
1	0	- 2	- 2	- 2	0	+ 3	+ 5	+ 6	+ 8	+ 8	+ 7	+ 6	+ 6	+ 3	0	- 1	- 2	- 4	- 6	- 7	- 6	- 5	- 4	- 4	658			
+ 2	- 7	- 5	- 4	- 4	- 4	- 4	- 4	- 2	0	0	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 2	+ 2	+ 4	+ 5	+ 5	+ 4	+ 1	662			
+ 3	- 3	- 5	- 5	- 4	- 4	- 3	- 2	- 1	0	+ 1	+ 1	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	+ 3	+ 4	+ 2	0	+ 1	+ 3	661			
+ 4	+ 5	+ 5	0	0	- 3	- 4	- 3	- 3	- 1	0	0	+ 1	0	0	0	+ 1	+ 2	+ 2	+ 3	+ 3	+ 2	0	- 1	0	661			
+ 5																												
6	+ 2	+ 1	- 1	- 4	- 6	- 6	- 6	- 4	- 3	- 1	+ 1	+ 2	+ 3	+ 3	+ 2	+ 1	+ 1	+ 1	+ 2	+ 2	+ 2	+ 2	- 1	- 1	662			
7	- 1	+ 1	+ 1	- 1	- 3	- 3	- 3	- 3	- 1	- 1	+ 1	+ 2	+ 2	+ 3	+ 2	+ 2	+ 1	+ 1	+ 1	+ 1	+ 1	0	0	+ 2	662			
8	0	- 3	- 4	- 3	- 3	- 3	- 3	- 3	- 3	- 3	- 2	- 1	0	0	+ 1	+ 1	+ 1	+ 1	+ 3	+ 2	+ 2	+ 4	+ 6	+ 4	666			
9	+ 7	+ 3	- 2	- 2	- 4	- 6	- 7	- 7	- 9	- 7	- 3	0	+ 2	+ 4	+ 7	+ 5	+ 4	+ 4	+ 5	+ 4	+ 4	0	- 5	- 7	663			
10	- 7	- 9	- 9	- 7	- 4	- 3	- 2	0	0	0	+ 2	+ 3	+ 3	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 3	+ 3	+ 3	663			
11	- 1	- 4	- 3	- 2	- 2	- 5	- 5	-12	-12	- 7	+ 1	+ 1	+ 4	+ 5	+ 7	+ 7	+ 7	+ 7	+ 7	+ 7	+ 4	+ 4	- 2	- 5	663			
12	- 6	- 5	- 3	- 4	- 5	- 6	- 2	0	0	- 2	- 4	- 2	0	+ 2	+ 3	+ 4	+ 5	+ 5	+ 5	+ 7	+ 7	+ 7	+ 5	0	663			
13	- 2	- 2	0	0	- 1	- 2	0	+ 1	- 2	- 1	- 1	0	0	+ 2	+ 3	+ 3	+ 4	+ 4	+ 4	+ 3	+ 1	- 1	- 2	- 2	663			
14	- 2	- 1	- 1	- 3	- 3	- 3	- 3	- 2	- 3	- 3	- 3	- 2	0	0	+ 1	+ 3	+ 4	+ 5	+ 6	+ 7	+ 4	+ 1	- 2	- 5	663			
15	- 2	- 1	- 3	- 3	- 3	- 2	- 2	- 3	- 2	0	0	- 1	- 1	- 1	+ 2	+ 1	+ 1	+ 2	+ 4	+ 4	+ 2	+ 1	- 1	- 3	664			
16	- 4	- 4	- 5	- 4	- 2	- 2	- 1	- 1	- 1	- 1	- 2	0	+ 1	+ 2	+ 3	+ 4	+ 4	+ 4	+ 5	+ 5	+ 4	0	- 4	- 5	662			
17	- 8	- 7	- 4	- 3	- 3	- 4	- 1	0	+ 1	+ 1	+ 2	+ 3	+ 2	+ 2	+ 2	+ 2	+ 3	+ 5	+ 6	+ 7	+ 6	0	- 1	- 1	661			
18	- 3	- 4	- 3	- 3	- 1	0	0	0	0	0	- 1	0	0	- 1	0	0	0	+ 2	+ 3	+ 6	+ 5	+ 5	+ 2	+ 2	661			
+ 19	0	- 4	- 5	- 3	- 2	- 2	- 1	0	0	0	0	- 2	- 3	- 3	- 1	0	+ 1	+ 2	+ 2	+ 4	+ 5	+ 5	+ 4	+ 2	661			
20	- 3	- 7	- 6	- 5	- 5	- 6	- 5	- 3	0	+ 1	+ 1	- 1	+ 2	+ 5	0	+ 1	+ 1	+ 2	+ 4	+ 6	+ 5	+ 3	+ 1	0	661			
21	- 4	-10	- 6	- 4	- 6	- 6	- 4	- 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	' 0	- 1	0	+ 1	+ 3	+ 6	+ 6	+ 6	+ 6	662			
22	0	- 5	- 8	- 9	- 8	- 7	- 2	- 4	- 3	- 1	- 1	0	+ 1	+ 1	+ 1	+ 1	+ 1	+ 2	+ 3	+ 6	+ 8	+ 6	+ 6	+ 5	665			
23	- 2	- 3	- 3	- 5	- 6	- 5	- 5	- 4	0	+ 1	+ 3	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 1	+ 2	0	- 1	- 4	- 3	0	666			
24	+ 7	+ 4	- 1	- 5	- 5	- 5	- 3	- 1	- 1	0	+ 1	+ 2	+ 2	+ 3	+ 3	+ 4	+ 2	0	0	0	0	0	0	+ 3	661			
25	+ 4	+ 4	+ 3	+ 1	- 1	- 1	- 2	- 4	- 4	- 1	- 1	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 3	+ 1	+ 1	0	- 2	- 6	- 9	662			
26	- 3	+ 1	+ 3	0	- 2	- 3	- 2	- 2	- 2	- 2	- 1	0	+ 1	+ 5	+ 4	+ 4	+ 5	+ 5	+ 5	+ 4	+ 1	- 3	- 9	- 9	660			
27	-11	- 9	- 6	- 4	- 4	- 2	- 2	+ 1	+ 1	- 2	+ 1	+ 1	+ 3	+ 5	+ 6	+ 7	+ 8	+ 7	+ 7	+ 6	+ 2	0	- 2	- 4	660			
28	- 3	- 1	- 2	- 3	- 3	- 2	0	- 1	0	- 1	0	0	0	+ 2	+ 4	+ 5	+ 6	+ 6	+ 6	+ 5	- 1	- 5	-11	-10	661			
29																												
30	- 9	-10	-10	- 9	- 4	- 2	0	- 2	- 2	- 2	+ 1	0	+ 1	+ 3	+ 3	+ 3	+ 3	+ 6	+ 6	+ 4	+ 3	+ 4	+ 3	0	660			
31																												
MEAN.	- 2	- 3	- 3	- 3	- 3	- 3	- 2	- 2	- 1	- 1	0	+ 1	+ 1	+ 2	+ 2	+ 3	+ 3	+ 3	+ 3	+ 4	+ 3	+ 1	0	- 1	662			

[200/3/42—18267

Vertical Intensity

G.M.T. (Z = 20000γ + Mean + ...) August 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1																												
2																												
3																												
4	+ 1	- 2	- 3	- 4	- 5	- 6	- 5	- 3	- 2	0	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 2	+ 3	+ 3	+ 4	+ 5	+ 5	- 1	660			
5	- 8	- 7	- 4	- 5	- 5	- 4	- 4	- 2	- 2	- 1	0	+ 1	+ 2	+ 3	+ 3	+ 3	+ 3	+ 4	+ 5	+ 6	+ 4	+ 2	0	+ 2	661			
6	+ 2	0	- 1	- 1	- 2	- 1	- 1	- 1	0	0	+ 1	+ 2	+ 2	+ 2	+ 1	- 1	+ 2	+ 2	+ 3	+ 2	+ 1	+ 1	- 2	- 7	661			
7	-10	-13	-14	- 9	- 5	- 3	- 5	- 2	0	- 2	- 1	+ 2	+ 5	+ 7	+ 7	+ 8	+ 7	+ 7	+ 7	+ 7	+ 5	0	- 2	- 4	661			
8	- 6	- 7	- 7	- 6	- 4	- 2	- 1	- 1	- 1	+ 1	+ 1	+ 2	+ 4	+ 4	+ 5	+ 5	+ 5	+ 5	+ 5	+ 3	+ 1	+ 1	- 2	- 4	662			
9	- 1	0	- 1	- 4	- 3	- 3	- 1	0	0	0	0	0	0	- 1	0	0	0	+ 1	+ 2	+ 2	0	- 1	0	- 2	661			
10	- 5	- 8	- 6	- 5	- 5	- 6	- 4	- 5	- 3	- 1	- 1	0	0	+ 3	+ 5	+ 5	+ 6	+ 3	+ 5	+ 6	+ 5	+ 5	+ 5	+ 3	661			
11	- 2	- 5	- 4	- 3	- 2	- 3	- 3	- 2	0	0	- 1	+ 1	0	0	+ 2	+ 3	+ 4	+ 4	+ 5	+ 5	+ 3	+ 1	- 2	- 5	663			
12	- 9	- 9	- 7	- 5	- 4	- 1	0	+ 1	0	- 1	+ 3	+ 3	+ 3	+ 4	+ 6	+ 6	+ 6	+ 6	+ 6	+ 5	+ 3	0	- 3	- 4	660			
13	- 1	- 2	- 1	0	0	+ 2	+ 2	+ 2	+ 2	+ 1	+ 1	+ 1	+ 2	+ 3	+ 3	+ 4	+ 4	+ 3	+ 3	+ 3	0	- 5	- 8	-10	658			
14	- 9	-11	- 9	- 7	- 4	- 2	- 1	+ 1	+ 2	+ 1	+ 1	+ 2	+ 2	+ 3	+ 4	+ 6	+ 7	+ 8	+ 8	+ 8	+ 6	+ 2	- 3	- 4	655			
15	- 8	- 9	- 8	- 5	- 2	0	+ 1	+ 2	+ 2	+ 2	+ 2	+ 1	+ 1	+ 1	+ 2	+ 4	+ 5	+ 5	+ 7	+ 6	+ 3	0	- 4	- 5	656			
16	- 4	- 3	- 8	-13	-12	-10	- 6	- 2	0	+ 2	+ 1	0	+ 1	+ 2	+ 3	+ 4	+ 5	+ 7	+10	+ 8	+ 4	+ 4	+ 2	- 3	656			
17	- 7	- 7	- 8	- 7	- 5	- 4	0	0	+ 1	0	- 1	+ 3	+ 3	+ 1	+ 1	+ 2	+ 3	+ 5	+ 6	+ 5	+ 3	+ 1	- 1	- 2	658			
18	- 2	- 4	- 3	- 2	- 1	- 2	- 4	- 4	- 3	+ 3	+ 2	+ 2	+ 3	+ 3	+ 5	+ 3	+ 4	+ 5	+ 5	+ 3	0	- 4	- 5	- 5	658			
19	- 4	- 6	- 7	- 6	- 3	- 2	- 1	- 1	+ 2	+ 4	+ 1	+ 3	+ 6	+ 4	+ 3	+ 2	+ 4	+ 3	+ 1	+ 2	+ 4	+ 2	- 3	- 1	657			
20	- 4	- 6	- 5	- 1	- 1	- 1	- 1	- 1	+ 2	+ 2	+ 4	+ 3	+ 2	+ 4	+ 3	+ 2	+ 2	+ 2	+ 3	+ 1	0	- 1	- 5	- 6	658			
21	- 8	- 6	- 5	- 5	- 5	- 6	- 5	- 5	- 3	- 1	+ 1	+ 2	+ 2	+ 3	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 5	+ 5	+ 1	- 1	659			
22	- 7	- 7	- 5	- 4	- 4	- 3	- 3	- 2	- 2	0	+ 1	+ 3	+ 3	+ 3	+ 3	+ 3	+ 3	+ 3	+ 3	+ 3	+ 3	+ 4	+ 1	0	660			
23	- 4	- 7	- 7	- 5	- 3	- 3	- 3	- 3	- 2	- 1	- 1	+ 2	+ 3	+ 5	+ 6	+ 6	+ 7	+ 4	+ 2	+ 2	+ 3	+ 3	- 1	+ 2	661			
24	+ 2	+ 2	- 3	- 3	- 1	0	- 1	- 1	- 1	0	+ 1	+ 2	+ 3	+ 4	+ 6	+ 5	+ 5	+ 5	+ 4	- 1	- 5	- 8	-10	-10	664			
25	- 5	- 4	- 6	- 6	- 7	- 4	- 4	- 3	- 1	+ 1	+ 1	+ 3	+ 5	+ 6	+ 6	+ 7	+ 8	+ 7	+ 7	+ 5	+ 3	- 2	- 5	- 7	660			
26	- 7	- 8	- 7	- 3	- 2	- 1	0	- 1	0	0	0	+ 2	+ 2	+ 3	+ 5	+ 6	+ 6	+ 6	+ 8	+ 5	+ 3	- 2	- 7	- 9	658			
27	-11	- 8	- 5	- 3	- 3	- 3	- 3	- 1	- 3	- 3	- 3	- 3	- 1	0	+ 3	+ 3	+ 3	+ 5	+ 6	+ 7	+ 6	+ 6	+ 3	+ 2	661			
28	+ 3	+ 3	+ 1	0	0	+ 1	+ 2	+ 2	+ 2	0	- 1	- 2	- 1	0	+ 1	+ 2	+ 3	+ 3	+ 5	+ 5	+ 2	- 4	- 7	-10	658			
29	- 6	- 8	-11	- 8	- 4	- 1	0	0	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 2	+ 3	+ 4	+ 6	+ 7	+ 8	+ 7	+ 4	+ 1	0	652			
30	- 4	- 6	- 3	- 1	- 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 3	+ 5	+ 6	+ 8	+ 6	+ 1	- 1	- 4	- 6	- 8	655			
31	- 8	- 7	- 7	- 6	- 6	- 6	- 6	- 4	- 2	0	0	- 1	- 1	+ 2	+ 3	+ 3	+ 4	+ 6	+ 9	+ 9	+ 8	+ 6	+ 2	- 1	654			
MEAN.	- 5	- 6	- 6	- 5	- 4	- 3	- 2	- 1	0	0	+ 1	+ 1	+ 2	+ 3	+ 3	+ 4	+ 4	+ 5	+ 5	+ 4	+ 3	+ 1	- 2	- 4	659			

Vertical Intensity

(Z = 20000γ + Mean + ...)

G.M.T. September 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	- 6	- 6	- 6	- 7	- 6	- 3	- 1	0	+ 1	+ 2	+ 2	+ 5	+ 3	- 1	- 1	- 1	0	+ 2	+ 6	+ 8	+7	+ 4	+ 2	0	654			
2	- 2	- 3	- 6	- 4	- 3	- 5	- 5	- 6	- 5	0	+ 2	+ 5	+ 5	+ 5	+ 6	+ 6	+ 6	+ 6	+ 7	+ 5	+ 2	0	- 6	-10	656			
3	- 8	- 7	- 9	- 8	- 7	- 4	- 3	- 2	- 1	+ 1	+ 5	+ 6	+ 6	+ 6	+ 6	+ 7	+ 6	+ 6	+ 6	+ 5	+ 3	+ 1	- 7	-11	655			
4	-11	- 9	- 4	- 2	- 3	- 1	- 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 2	+ 6	+ 7	+ 7	+ 4	+ 1	+ 1	+ 1	0	- 1	- 1	+ 1	657			
5	+ 2	+ 1	0	- 1	- 2	- 2	- 1	- 1	- 1	- 1	- 2	+ 1	+ 2	+ 4	+ 4	+ 4	+ 5	+ 5	+ 4	0	- 1	- 3	- 5	- 3	659			
6	0	0	- 2	- 2	- 2	- 1	- 2	- 2	0	+ 2	+ 2	+ 2	+ 2	+ 3	+ 5	+ 3	+ 2	+ 2	+ 3	+ 2	0	- 1	- 5	- 7	658			
7	- 4	- 1	0	+ 2	0	- 1	- 2	0	0	0	0	+ 2	+ 3	+ 3	+ 3	+ 2	+ 3	+ 3	+ 2	- 1	- 4	- 3	- 5	- 7	658			
8	- 6	- 5	- 4	- 3	- 2	- 1	- 2	- 3	- 2	0	+ 2	+ 4	+ 4	+ 5	+ 5	+ 5	+ 5	+ 5	+ 4	+ 2	0	- 2	- 3	- 2	656			
9	+ 1	+ 3	+ 3	+ 2	+ 1	0	+ 1	0	- 1	- 1	- 1	+ 3	+ 3	+ 3	+ 5	+ 6	+ 5	+ 5	+ 4	+ 2	- 3	- 9	-11	-11	655			
10	- 9	- 8	- 6	- 5	- 3	- 1	- 1	- 3	- 3	- 3	- 1	+ 1	+ 3	+ 4	+ 6	+ 8	+ 8	+ 9	+ 9	+ 7	+ 3	- 1	- 4	- 3	654			
11																												
12	-17	-14	-11	-13	- 9	- 4	- 9	- 5	- 2	- 1	+ 5	+ 6	+ 6	+ 8	+ 9	+ 9	+10	+10	+ 9	+ 8	+ 3	0	- 2	- 1	658			
13	- 4	- 6	- 4	- 4	- 3	- 2	- 2	0	0	0	0	+ 1	+ 1	+ 1	+ 3	+ 6	+ 8	+ 8	+ 7	+ 3	+ 1	- 1	- 8	-12	660			
14	-13	-10	-10	-10	- 7	- 5	- 3	0	+ 1	+ 2	+ 3	+ 4	+ 4	+ 4	+ 4	+ 6	+ 7	+ 9	+ 9	+ 5	+ 2	0	- 3	- 7	661			
15	- 7	-10	-10	-10	-11	- 7	- 1	+ 2	+ 5	+ 4	+ 6	+ 6	+ 4	+ 5	+ 6	+ 7	+ 9	+ 7	+ 5	+ 2	- 1	- 5	- 4	- 3	661			
16	- 2	- 6	-10	- 9	- 9	- 6	- 2	+ 1	+ 2	+ 2	+ 4	+ 4	+ 4	+ 4	+ 3	+ 3	+ 4	+ 5	+ 6	+ 4	+ 3	- 2	- 3	- 8	660			
17	- 7	- 7	- 4	- 3	- 2	- 3	- 4	- 2	+ 2	+ 3	+ 8	+ 5	+ 2	+ 1	+ 4	+ 6	+ 5	+ 2	+ 1	+ 1	+ 1	- 2	- 6	- 4	660			
18	- 6	- 7	- 9	- 7	- 5	- 2	- 2	+ 1	+ 1	+ 3	+ 5	+ 3	+ 3	+ 3	+ 4	+ 3	+ 3	+ 3	+ 1	+ 3	+ 3	+ 2	+ 1	+ 1	660			
19	- 2	- 5	- 7	- 7	- 6	- 4	- 5	- 1	+ 2	+ 5	+ 7	+ 7	+ 7	+ 9	+ 7	+ 4	+ 4	+ 2	+ 2	- 2	- 4	- 6	- 6	- 4	659			
20	- 2	- 2	- 1	- 1	- 2	- 1	- 1	- 1	0	+ 1	+ 2	+ 4	+ 7	+ 5	+ 3	+ 3	+ 2	+ 1	0	- 2	- 4	- 5	- 4	- 8	657			
21	- 8	- 7	- 6	- 6	- 5	- 6	- 3	0	- 1	+ 1	+ 1	+ 5	+ 7	+ 8	+ 7	+ 5	+ 7	+ 5	+ 1	- 2	- 3	- 3	0	+ 2	656			
22																												
23																												
24																												
+ 25																												
+ 26																												
27																												
+ 28	-10	-11	-11	- 8	- 5	- 2	- 1	+ 1	+ 2	+ 2	+ 2	+ 2	+ 3	+ 3	+ 4	+ 5	+ 6	+ 6	+ 6	+ 4	+ 2	+ 1	- 1	- 2	655			
+ 29	- 6	- 7	- 5	- 5	- 4	- 3	- 2	- 1	0	0	+ 1	0	0	+ 1	+ 2	+ 4	+ 5	+ 6	+ 7	+ 5	+ 4	+ 1	- 2	- 6	656			
+ 30																												
31																												
MEAN.	- 6	- 6	- 6	- 5	- 4	- 3	- 2	- 1	0	+ 1	+ 2	+ 4	+ 4	+ 4	+ 5	+ 5	+ 5	+ 5	+ 5	+ 3	+ 1	- 2	- 4	- 5	657			

1200/3/42—18267

Vertical Intensity

G.M.T. (Z = 20000γ + Mean + ...) October 1942

DAY.		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
+1		-1	-4	-6	-6	-5	-4	-2	-1	+1	+1	+1	+1	+1	+1	+1	+2	+3	+4	+4	+3	+2	+1	+1	0	-1	655			
2																													
3		-5	-8	-10	-8	-9	-3	-4	0	+2	+3	+7	+6	+5	+6	+4	+3	+2	+2	0	0	+1	+3	+1	+1	659			
4		-1	-1	+1	+1	-2	-2	-4	-1	-1	-1	+2	+5	+5	+4	+2	+1	+1	0	-1	-1	-1	-1	-2	0	660			
5		+2	+4	+4	-1	-1	0	+1	-1	+2	+3	+2	+1	+2	+3	+3	+2	+2	+1	+1	-1	-4	-6	-6	-8	660			
6		-4	-3	-3	-3	-3	-3	-2	-3	-1	+1	+2	+2	+4	+4	+5	+5	+5	+4	+2	-1	-3	-3	-3	-3	657			
7		-8	-9	-8	-6	-4	-4	-2	-2	-1	0	+1	+3	+5	+8	+6	+6	+6	+4	+4	+1	0	0	0	-2	658			
8		-1	-2	-2	-2	-2	-2	-3	-4	-4	-4	-2	-1	+1	+4	+7	+7	+7	+4	+2	+2	+2	-1	+2	+4	660			
+9																													
10		+1	0	0	0	+1	+3	+1	+2	0	-1	-2	0	+1	+3	+3	+6	+6	+6	+4	0	-4	-7	-10	-10	661			
11		-7	-6	-5	-4	-3	-2	-2	-1	-2	-2	-2	-1	+1	+4	+4	+7	+9	+10	+6	+6	-3	-4	-4	-2	658			
12		-3	-2	-5	-6	-4	-1	0	0	0	-3	+1	-1	-3	-1	0	+4	+4	+3	+3	+3	+3	+3	+1	-2	659			
13		-5	-5	-4	-3	-2	-2	+1	0	-2	0	0	+1	+1	+1	+3	+4	+5	+6	+6	+3	+4	+2	-5	-5	661			
14		-5	-7	-5	-3	-2	-1	+1	+2	+3	+1	+3	+3	+3	+1	+1	+3	+3	+3	+3	0	-2	-5	-5	-2	661			
15		-2	-2	-2	-5	-8	-4	-2	+1	+2	+4	+3	+2	+2	+2	+2	+2	+2	+2	+3	+1	-1	-1	-3	-4	-2	663			
16		0	-1	-3	-4	-4	-4	-1	0	+2	+3	+3	+2	+3	+3	+2	0	+1	+1	-1	0	0	0	0	-2	662			
17		-4	-5	-5	-7	-9	-6	-2	-2	+1	+2	+2	+2	+4	+3	+2	+1	+1	0	0	+1	+2	+5	+8	+8	663			
18		+4	+1	-3	-6	-6	-5	-4	-3	-1	0	+3	+4	+4	+5	+4	+2	+2	0	-1	-3	-3	-1	+6	+9	665			
19		+10	+4	-1	-1	-3	-3	0	+1	+2	+4	+5	+5	+7	+7	+5	+3	+2	-1	-3	-5	-8	-8	-7	-6	662			
20		0	0	-1	-2	-3	-2	0	0	+1	+2	+3	+6	+9	+7	+8	+6	+6	0	-6	-9	-12	-11	-7	-3	658			
21		0	-2	-3	-4	-5	-5	-2	-2	-1	0	+2	+3	+3	+6	+6	+6	+6	+4	0	-2	-3	-4	-4	-2	656			
+22		-2	-2	-3	-4	-3	-2	0	-1	-1	0	0	+1	+4	+4	+4	+4	+4	+2	+1	0	0	0	+1	+4	658			
+23		+7	+5	+4	+3	+1	0	-1	-1	-2	-2	0	+1	+3	+4	+6	+7	+6	+4	+2	-3	-5	-8	-11	-11	655			
+24		-6	-6	-6	-5	-3	-3	-2	-1	-1	0	+1	+2	+2	+4	+5	+5	+6	+6	+5	0	-1	-2	0	0	654			
25																													
26		-7	-9	-9	-6	-6	-4	-1	+1	+1	+1	+1	+1	+1	+3	+4	+6	+6	+6	+4	+3	+1	+1	0	+1	655			
27		-4	-6	-4	-3	-3	-1	0	+1	0	0	0	0	0	+1	+2	+2	+4	+5	+5	+5	+5	+5	-1	-5	657			
28		-5	-6	-5	-4	-4	-2	0	0	0	0	0	0	0	0	-1	-3	+3	+3	+6	+9	+6	+2	+4	+3	656			
29		-3	-3	-3	-1	-1	0	+2	0	-3	+2	+9	+7	+3	+4	+4	+5	+5	+5	0	-3	-2	-5	-7	-7	662			
30		-5	-3	-3	-3	-3	-2	+1	+2	+6	+6	+4	+3	+4	+3	+4	+3	+3	+1	+1	-2	-2	-3	-2	-2	661			
31		-3	-5	-5	-5	-3	-3	-3	+1	+2	+3	+5	+5	+3	+2	+3	+5	+3	+2	+1	+2	-1	-4	-4	-2	659			
MEAN.		-2	-3	-3	-4	-4	-2	-1	-1	0	+1	+2	+2	+3	+3	+3	+4	+4	+3	+2	0	-1	-2	-2	-2	659			

1000/3/42—18267

Vertical Intensity

(Z = 20000Y + Mean + ...)

G.M.T. November 1942

DAY.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1	- 4	- 4	- 4	- 3	- 3	- 3	- 4	- 3	- 1	- 1	0	+ 2	- 1	- 1	- 1	0	0	0	- 1	+ 5	+ 6	+ 5	+ 3	+ 2	662			
2	+ 5	+ 3	- 1	- 4	- 4	- 4	- 3	- 1	- 1	- 1	0	+ 2	+ 3	+ 5	+ 3	+ 3	+ 2	+ 2	+ 2	+ 2	+ 2	- 1	- 4	- 4	659			
3	- 4	- 6	- 8	- 6	- 4	- 2	- 3	- 1	+ 1	+ 1	- 1	- 1	- 1	+ 1	+ 2	+ 2	+ 4	+ 4	+ 4	0	+ 1	+ 2	+ 4	+ 4	660			
4	- 1	- 1	- 2	- 5	- 5	- 4	- 4	- 4	- 4	- 2	- 1	+ 2	+ 4	+ 4	+ 5	+ 5	+ 4	+ 2	+ 1	- 1	+ 1	- 1	- 1	+ 2	660			
5	+ 5	+ 3	0	- 3	- 3	- 2	- 1	- 1	- 1	- 1	0	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	0	+ 1	- 1	- 2	- 4	- 4	- 5	659			
6	- 4	- 4	- 5	- 5	- 4	- 2	- 2	- 2	- 1	- 2	0	+ 2	+ 3	+ 5	+ 6	+ 6	+ 8	+ 5	+ 2	+ 1	+ 2	- 1	- 1	+ 3	656			
7	+ 4	+ 1	0	0	- 3	- 3	- 4	- 3	- 3	- 3	- 2	0	+ 1	+ 4	+ 4	+ 6	+ 5	+ 3	0	- 2	- 4	- 4	- 4	- 3	658			
8	- 1	- 1	0	+ 1	+ 3	+ 4	+ 1	- 1	- 4	- 3	- 3	- 1	+ 1	+ 3	+ 6	+ 7	+ 7	+ 5	+ 2	- 1	- 4	- 6	- 7	-10	655			
+ 9	-11	-10	- 9	- 5	- 2	0	+ 1	+ 2	+ 1	+ 2	+ 2	+ 3	+ 5	+ 6	+ 8	+ 9	+ 9	+ 9	+ 6	+ 2	- 1	- 5	- 7	- 7	653			
10	- 6	- 5	- 5	- 3	- 2	- 2	- 1	0	0	+ 1	+ 2	+ 2	+ 2	+ 1	+ 2	+ 4	+ 5	+ 7	+ 5	+ 2	0	- 2	- 2	- 2	654			
11	- 4	- 4	- 2	- 2	- 2	- 1	- 1	- 1	- 1	- 1	0	0	+ 2	+ 2	+ 2	+ 3	+ 5	+ 4	+ 2	- 1	- 2	- 2	- 2	- 4	656			
12	- 2	- 2	- 2	- 2	- 2	0	+ 2	+ 2	+ 1	0	0	0	0	0	+ 2	+ 3	+ 3	+ 3	+ 2	0	- 2	- 2	- 2	- 2	656			
13	- 4	- 4	- 3	- 4	- 2	- 1	0	+ 1	+ 2	+ 1	0	0	+ 1	0	+ 3	+ 3	+ 2	+ 3	+ 3	0	- 2	- 2	- 2	0	656			
14	0	- 3	- 4	- 7	- 6	- 5	- 4	- 3	0	+ 2	+ 2	+ 2	+ 3	+ 3	+ 3	+ 3	+ 3	+ 3	+ 1	0	- 2	0	+ 1	+ 3	658			
15	+ 2	+ 1	- 2	- 4	- 4	- 4	- 3	- 1	- 1	+ 1	+ 2	+ 2	+ 1	+ 1	+ 2	+ 1	+ 1	0	- 1	- 4	- 4	- 2	+ 1	+ 3	660			
+ 16	+ 3	+ 3	0	- 3	- 5	- 5	- 4	- 2	0	+ 2	+ 2	+ 3	+ 3	+ 3	+ 2	+ 2	+ 2	+ 2	+ 2	- 1	- 1	- 1	0	+ 1	659			
+ 17	- 1	- 2	- 2	- 5	- 6	- 5	- 5	- 5	- 4	- 1	+ 1	+ 2	+ 4	+ 2	+ 2	+ 3	+ 2	+ 2	+ 1	+ 2	+ 1	+ 2	+ 4	+ 4	660			
18																												
+ 19																												
20																												
21																												
+ 22																												
23	+ 1	+ 2	+ 1	0	- 1	- 1	- 1	- 1	- 1	- 1	- 2	- 3	0	+ 2	0	0	+ 3	+ 5	+ 5	+ 5	+ 3	- 3	- 7	- 8	659			
24	- 7	- 9	- 6	- 4	- 4	- 1	+ 2	+ 1	+ 2	+ 2	+ 4	+ 4	+ 8	+ 8	+ 9	+ 9	+ 9	+ 7	+ 3	- 4	- 8	- 6	- 4	- 4	660			
25	- 6	- 6	- 6	- 3	- 1	0	+ 2	+ 3	+ 2	0	+ 4	+ 4	+ 2	+ 5	+ 5	+ 5	+ 6	+ 4	+ 2	- 3	- 3	- 8	- 8	- 6	662			
26	- 5	- 2	- 2	- 4	- 7	- 4	- 2	- 1	0	+ 1	- 1	0	+ 3	+ 4	+ 4	+ 4	+ 2	+ 4	+ 4	+ 2	+ 1	+ 2	+ 2	+ 2	663			
27	+ 4	+ 2	- 1	- 3	- 3	- 1	0	0	- 1	+ 2	0	- 1	+ 1	+ 2	+ 2	+ 3	+ 3	+ 3	- 1	- 3	+ 2	- 1	- 2	+ 1	665			
28	0	- 2	- 6	- 8	- 7	- 6	- 3	- 2	0	+ 3	+ 5	+ 5	+ 5	+ 6	+ 7	+ 7	+ 6	+ 3	+ 2	+ 3	+ 2	+ 1	- 5	- 4	662			
29	- 7	- 6	- 5	- 5	- 3	- 2	0	+ 1	+ 3	+ 5	+ 7	+ 5	+ 5	+ 5	+ 4	+ 4	+ 5	+ 4	+ 3	0	- 3	- 5	- 6	- 6	664			
30	- 6	- 3	- 4	- 4	- 4	- 3	- 1	+ 2	+ 2	+ 2	+ 2	+ 3	+ 3	+ 3	+ 3	+ 3	+ 2	0	0	+ 2	+ 2	+ 3	+ 2	0	665			
31																												
MEAN.	- 2	- 2	- 3	- 4	- 3	- 2	- 2	- 1	0	0	+ 1	+ 2	+ 2	+ 3	+ 3	+ 4	+ 4	+ 3	+ 2	0	- 1	- 2	- 2	- 2	659			

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Vertical Intensity

(Z = 20000γ + Mean + ...)

G.M.T.

December 1942

DAY.		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean.	Maximum. H. M. γ	Minimum. H. M. γ	Range.
1		+2	-3	-4	-6	-6	-5	-3	0	+2	+2	+3	+3	+3	+3	+4	+4	+4	+2	0	+1	+2	+2	0	-1	662			
2		-5	-3	-3	-5	-5	-3	-2	-2	-2	0	+1	+2	+2	+1	+1	+1	0	0	0	+1	+1	+5	+5	+3	664			
3		+4	-1	-4	-4	-4	-4	-2	-1	+1	+2	+4	+5	+5	+5	+4	+4	+4	+2	-1	-4	-6	-8	-6	-6	659			
4		-6	-4	-4	-4	-5	-7	-8	-8	-5	-2	-1	+2	+2	+2	+3	+4	+1	0	+1	+2	+4	+4	+8	+15	659			
5		+15	+12	+6	+2	0	-1	-1	-1	-1	0	+1	+2	+2	+2	+2	+2	+2	-1	-4	-7	-10	-11	-10	-10	661			
6		-2	-1	-1	-1	-3	-3	-3	-3	-2	-2	-1	+1	+2	+2	+4	+5	+5	+4	+1	-2	-2	-1	+2	+3	656			
7		+4	+3	+3	0	-2	-3	-4	-2	-2	-1	-1	0	+2	+3	+5	+6	+7	+3	0	-4	-4	-4	-4	0	655			
8		+1	+1	-1	-2	-3	-2	-2	-2	-3	-3	-2	-2	+1	+1	+3	+3	+4	+4	+1	-1	-1	+2	+5	+6	657			
9		+5	+6	+3	+3	+2	+1	+1	0	-2	-3	-2	-1	0	+1	+4	+4	+3	+1	-2	-3	-6	-9	-5	-5	660			
10		-4	0	+2	+2	+2	+3	+2	+2	0	0	+1	+2	+2	+3	+5	+5	+6	+6	+4	0	-5	-11	-13	-14	661			
11		-10	-7	-7	-6	-6	-3	0	+1	+1	0	0	+1	+3	+4	+3	+4	+4	+4	+4	+3	+1	0	+2	-2	660			
12		-2	0	0	0	0	0	0	-1	-2	0	0	+1	0	-1	-2	0	+1	+1	0	0	0	+2	0	-4	661			
13		-3	-3	-1	-2	-1	0	0	0	+1	+1	+2	+3	+2	+2	+2	+3	+3	+3	+1	+2	0	0	0	-3	658			
14		-4	-4	-7	-7	-6	-3	0	+2	+2	0	0	+2	+1	+1	+1	0	0	0	0	+3	+5	+5	+8	+10	658			
15		+8	+5	0	-3	-4	-3	-3	-2	-1	0	+1	+1	+2	+1	0	0	-1	-2	-3	-4	-2	+3	+2	0	660			
16		0	-4	-4	-4	-3	-3	-2	-2	-1	+1	+4	+6	+4	+2	+3	+3	+1	+1	-2	-4	-3	-2	-2	0	657			
+ 17		-2	-5	-9	-9	-9	-8	-6	-5	-3	-1	+1	+1	+2	+4	+3	+2	+1	-1	-1	-1	+4	+12	+12	+9	658			
- 18		-1	-3	-6	-6	-5	-5	-4	-2	-2	-1	0	0	0	0	0	0	-1	-2	-3	-3	0	+7	+13	+15	662			
+ 19		+13	+7	+2	-5	-7	-7	-7	-6	-4	-3	-1	0	+2	+2	+2	+1	0	-1	-3	-3	0	+2	+3	+2	660			
20		+1	+1	0	+1	0	-2	-2	-3	-4	-3	-2	-2	0	+1	+3	+3	+3	+1	+1	0	-1	+1	+3	+3	656			
21																													
22		0	+2	0	-2	-3	-3	-1	-1	0	+1	+2	+4	+1	+2	+3	+3	+3	+2	0	-3	-3	0	-1	-2	657			
23		+3	+3	+2	-1	-2	-3	-3	-3	-3	-1	-2	-2	+2	+3	+2	+4	+4	+5	+4	-2	-3	-1	+2	+2	655			
24		-4	-6	-6	-4	-1	-1	+1	+2	+1	+2	+2	+2	+2	+2	+4	+4	+4	+2	+1	+1	-1	-2	-5	-6	658			
25		-6	-7	-9	-6	-1	0	+1	+1	-1	+1	-1	-1	0	+1	+2	+3	+4	+4	+5	+5	+5	+4	+1	-1	658			
26		-3	-5	-6	-6	-6	-4	-1	+2	+4	+2	+3	+2	+2	+4	+5	+5	+4	+2	+2	+4	+4	+2	-2	-4	658			
27		-2	-2	-3	-5	-6	-5	-2	0	+1	+1	+1	+1	0	+1	+1	+1	+1	+2	+3	+1	+1	+4	+7	+7	659			
28		+3	+2	+2	+3	+2	+3	+2	+2	-1	0	-2	-1	-3	-3	-3	-3	-3	-3	-1	-1	+1	0	0	-3	665			
29		-3	-3	-4	-5	-4	-3	-1	0	0	0	0	0	-2	-3	-1	0	0	+1	+2	+2	+5	+9	+9	+7	660			
+ 30		+4	+3	0	-3	-3	-3	-1	0	0	+1	+1	0	-1	-1	-2	-2	-2	-3	-1	-1	-1	+3	+6	+6	663			
+ 31		+6	+4	+2	-1	-2	-1	+1	+1	+1	+1	+2	+4	+4	+2	+2	+1	+1	-1	-1	-1	-2	-2	-4	-5	-4	-4	661			
MEAN.		0	0	-2	-3	-3	-3	-2	-1	-1	0	+1	+1	+1	+1	+2	+2	+2	+2	+1	0	-1	-1	0	+1	0	659			

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SEISMOLOGY, 1942

The following summary of earthquakes recorded at Apia is based on the quarterly bulletins which have already appeared in print. The preliminary identification of phases given in the quarterly bulletins has sometimes been revised after comparison with reports received from other observatories. As a general rule, the positions of epicentres given by the United States Coast and Geodetic Survey have been used; but in some cases, more especially for near earthquakes, the position of the epicentre has been calculated at the Observatory.

The lithological foundation is coral sand on volcanic rock. The instruments in use are a Wiechert 1000 kilogram horizontal seismograph for the east and north components and a Wiechert 80 kilogram seismograph for the vertical component. Time breaks on the records at the commencement of minute intervals are put on by electrical contact from a Synchronome clock. The clock is rated daily and its correction known to 0.1 second. On the horizontal seismograph rollers there is a device which assists in smooth running betwee he minute breaks. It is considered that cumulati.e errors may result in final times being in error by an amount not exceeding one second.

Due to the construction of the seismograph room, the temperature conditions inside are, remarkably uniform (See Annual Report 1939).

In deducing epicentral distances the following tables and charts have been in use:-

H. Jeffreys and K.E. Bullen, Revised Travel-Time Tables (1935)
H. Jeffreys, Tables of P. & S. (1932)
B. Gutenberg and C.F. Richter, Materials for the Study of Deep-focus Earthquakes (1936)
G.J. Brunner and J.B. Macelwane, The Brunner focal depth-time distance chart.
H. Jeffreys, Table for the Near Earthquake Pulses
H. Jeffreys, Times of P & S., M.N.R.A.S., Vol 4, 7, 1939.
H.Jeffreys, Times of Transmission for Small Distances, M.N.R.A.S., Vol. 4, 8, 1939.

Abbreviations used in the report are as follows:-

U.S.C.G.S. = United States Coast & Geodetic Survey
J.S.A. = Jesuit Seismological Association
H = hypocentral time

M.M. = Modified Mercalli scale of intensity.

Other symbols have their usually accepted meanings; see page 500 of Volume 25, Part II, Handbuch der Experimentalphysik (Wien-Harms), "Seismik" by O. Meisser and Krumbach - Leipzig 1931.

The seismograph constants were as follows:-

January 30th 1942

E-W Free period 12.0 seconds; static magnification 154; coefficient of friction 0.0020 Cms/sec^2; damping ratio 14.8; total friction 3.2 dynes.

N-S Free period 11.2 seconds; static magnification 177; coefficient of friction 0.0018; damping ratio 11.3; total friction 2.3 dynes.

Z Free period 4.3 seconds; static magnification 80; coefficient of friction 0.0022; damping ratio 2.1; total friction 3.6 dynes.

May 7th 1942

E-W Free period 12.0 seconds; static magnification 155; coefficient of friction 0.0019; damping ratio 4.5; total friction 3.1 dynes.

N-S Free period 10.5 seconds; static magnification 172; coefficient of friction 0.0018; damping ratio 5.7; total friction 2.7 dynes.

Z Free period 4.2 seconds; static magnification 78; coefficient of friction 0.0028; damping ratio 2.0; total friction 3.4 dynes.

June 23rd 1942

E-W Free period 12.1 seconds; static magnification 151; coefficient of friction 0.0022; damping ratio 8.9; total friction 3.9 dynes.

N-S Free period 10.0 seconds; static magnification 202; coefficient of friction 0.0016; damping ratio 7.5; total friction 1.5 dynes.

Z Free period 4.2 seconds; static magnification 78; coefficient of friction 0.0034; damping ratio 2.0; total friction 4.0 dynes.

August 5th 1942

E-W Free period 11.7 seconds; static magnification 155; coefficient of friction 0.0025; damping ratio 4.0; total friction 5.1 dynes.

N-S Free period 10.7 seconds; static magnification 211; coefficient of friction 0.0018; damping ratio 5.8; total friction 2.1 dynes.

Z Free period 4.3 seconds; static magnification 56; coefficient of friction 0.0023; damping ratio 2.1; total friction 5.2 dynes.

September 17th 1942

E-W Free period 10.0 seconds; static magnification 176; coefficient of friction 0.0024; damping ratio 3.5; total friction 3.0 dynes.

N-S Free period 11.0 seconds; static magnification 184; coefficient of friction 0.0012; damping ratio 4.9; total friction 1.4 dynes.

Z Free period 4.1 seconds; static magnification 55; coefficient of friction 0.0022; damping ratio 2.3; total friction 5.8 dynes.

November 12th 1942

E-W Free period 9.8 seconds; static magnification 162; coefficient of friction 0.0020; damping ratio 4.1; total friction 3.0 dynes.

N-S Free period 10.8 seconds; static magnification 198; coefficient of friction 0.0014; damping ratio 3.7; total friction 1.4 dynes.

Z Free period 4.2 seconds; static magnification 52; coefficient of friction 0.0022; damping ratio 2.0; total friction 5.8 dynes.

December 22nd 1942

E-W Free period 9.9 seconds; static magnification 173; coefficient of friction 0.0023; damping ratio 5.1; total friction 3.1 dynes.

N-S Free period 10.9 seconds; static magnification 196; coefficient of friction 0.0015; damping ratio 6.2; total friction 1.8 dynes.

Z Free period 4.1 seconds; static magnification 55; coefficient of friction 0.0014; damping ratio 1.9; total friction 3.2 dynes.

Earthquakes, 1942

January

2nd. iP 14h 08m 45s iS 09m 21s Distance 2.9°

2nd. Weak trace of near earthquake commencing at 17h 14½m.

5th. eP 11h 12m 43s iS 13m 04s Distance 1.5° Times uncertain

7th. eP 11h 07m 11s eS 07m 45s Distance 2.8°

10th. iP 00h 47m 20s iS 47m 39s Distance 1.4° H = 00h 47m 00s.

16th. iP 21h 25m 19s iS 26m 29s Epicentre (U.S.C.G.S.) 15°S 177½°W. Depth possibly 400 km. Near Tonga Distance about 6°.

17th. iP 10h 26m 36s iS 26m 58s Distance 1.7° H = 10h 26m 12s First wave compression from SW

17th. iP 20h 12m 11s iS 12m 33s Distance 1.6° H = 20h 11m 48s First wave compression from NW

23rd. eP 02h 51m 27s iS 51m 50s Distance 1.8° H = 02h 50m 47s

27th. eP 13h 38m 39s ePP 40m 38s eS 46m 07s Distance about 53° Epicentre (U.S.C.G.S.) 3.9°S 135.3°E

28th. eP 01h 05m 31s iS 06m 04s Distance 2.6° H = 01h 04m 54s Felt locally M.M. II.

29th. i(S?) 03h 07m 59s

29th. iP 07h 32m 55s iS 33m 56s Distance 5.2° H = 07h 31m 41s Epicentre near Tonga First wave compression.

29th. iP 08h 10m 50s iS 11m 34s iZ 12m 17s Distance = 3.7° H = 08h 09m 57s Epicentre to S.W.

29th. iP 09h 28m 08s i 28m 43s eS 31m 39s Distance about 19° Epicentre (U.S.C.G.S.) 19°S 169°E Depth possibly 150 km.

Slight tremors: 11d 07h 45m 16d 12h 53m 19d 23h 32m 24d 02h 46m

February

5th. iP 12h 32m 26s iS 32m 45s Distance 1.4° H = 12h 32m 06s

5th. iP 15h 22m 34s iS 22m 53s Distance 1.4° H = 15h 22m 14s

6th. eP 01h 26m 02s iS 26m 22s Distance 1.4° H = 01h 25m 42s

8th. eP 00h 07m 03s iS 07m 23s Distance 1.4° H = 00h 06m 43s

13th. iP 06h 20m 39s iS 21m 51s Distance about 7.0° Epicentre (U.S.C.G.S.) 20°S 175°W H = 06h 18.9m

16th. iP 18h 12m 58s eS 17m 08s eSS 17m 37s i 20m 38s i 22m 22s Distance about 23° Epicentre (U.S.C.G.S.) in region of 11½°S 167½°E H = 18h 08.1m

21st. iP 09h 22m 55s iS 23m 15s Distance 1.4° H = 09h 22m 35s

22nd. e 09h 28m 29s e 29m 25s Record obscured by large microseisms.

27th. e 08h 41m 07s e 41m 55s Record obscured by large microseisms.

Slight tremors: 2d 13h 14m 25d 01h 56m

March

2nd. eP 02h 58m 38s iS 59m 29s Distance 4.3° H = 02h 57m 37s

6th. iP 12h 58m 40s iS 59m 01s Distance 1.5° H = 12h 58m 19s

6th. iP 16h 38m 58s iS 39m 18s Distance 1.5° H = 16h 38m 37s

6th. Weak record of distant earthquake e 20h 21m 21s e 22m 16s e 24m 09s.

7th. iP 23h 52m 09s iS 52m 29s Distance 1.4° H = 23h 51m 49s First wave compression from S.W. Felt locally - M.M. IV.

11th. iP 15h 52m 12s iS 52m 32s Distance 1.4° H = 15h 51m 52s First wave compression from S.W. Felt locally - M.M. III.

12th. iP 06h 35m 43s iS 36m 06s Distance 1.7° H = 06h 35m 19s First wave compression, Vertical record only.

12th. Weak record of distant earthquake: vertical component only, commencing at about 09h 33m. i 09h 36m 04s i 36m 17s i 36m 46s i 37m 37s

13th. eP 16h 06m 45s iS 07m 02s (in time gap) Distance 1.2° H 16h 06m 28s

21st. Weak record of distant earthquake commencing 23h 53m 40s Probably L waves.

23rd. eP 23h 36m 14s iS 36m 47s Distance 2.7° H = 23h 35m 35s

25th. Very weak record commenced about 06h 53m.

26th. Weak record of distant earthquake commences about 01h 27m e 28m 33s (ca).

27th. First movement, probably S, of medium distance earthquake commencing at 02h 58m 38s

29th. i 05h 39m 15s Start of earthquake missed: clock stopped.

Slight tremors: 16d 06h 54m 17d 14h 59m 19d 05h 14m
26d 18h 50m 26d 22h 03m 28d 05h 39m 28d 15h 04m

April

3rd. iP 16h 22m 40s iS 23m 24s iS+ 23m 34s Felt locally M.M. IV. Distance 3.1° Azimuth 220° H = 16h 21m 42s Epicentre 16.6°S 174.0°W

8th. eP 15h 51m 46s ePP 54m 46s (ca) eS 16h 01m 22s Distance 73° (approx) Times may be up to 4 seconds earlier. Epicentre (U.S.C.G.S.) 12½°N 120°E.

20th. Weak record commencing 18h 13m 47s

24th. eP 06h 11m 45s e 12m 24s

29th. iP 15h 45m 33s e 46m 07s e 47m 37s e 50m 03s Weak record

Slight tremors: 5d 21h 09m nine tremors between
7d 07h to 8d 00h 8d 07h 44m 9d 05h 41m
12d 08h 16m 13d 08h 06m 14d 22h 29m
18d 06h 10m 20d 02h 17m 27d 03h 27m
27d 15h 33m 30d 15h 27m

May

2nd. eP 10h 02m 38s 1S 02m 58s Distance 1.4° H = 10h 02m 12s

2nd. eP 15h 38m 36s 1S 38m 55s Distance 1.4° H = 15h 38m 16s

3rd. eP 10h 02m 50s 1S 03m 48s Distance 5.1° H = 10h 01m 37s

10th. eP 10h 28m 53s eS 29m 44s Distance 4.3° H = 04h 27m 52s

14th. iP 00h 20m 15s 1S 20m 46s Distance 2.5° First wave compression H = 00h 19m 39s

14th. eP 02h 26m 49s ePP 30m 09s e 36m 15s 1SKS 37m 13s eSS 44m 02s (ca) 1Lq? 55m 32s Distance (from P and PP) about 88° Epicentre (U.S.C.G.S.) 0.3°S 80.0°W H = 2h 13m 21s.

17th. iP 09h 57m 02s 1S 57m 25s Distance 1.8° First wave compression H = 09h 56m 36s

19th. iP 15h 11m 00s 1S 11m 37s Distance 3.0° First wave dilatation H = 15h 10m 17s

27th. eP 06h 36m 22s ePP 36m 44s 1S 40m 05s Distance about 20° Epicentre (Wellington) 34°S 177°W H = 06h 31.8m

28th. iP 01h 12m 25s isPZ 13m 06s e(pPP or ScP) 16m 27s 1S 21m 03s (in time gap) Distance 66° Epicentre (U.S.C.G.S.) 0.4°S 122.6°E Depth about 100 km. H = 01h 01m 45s

Slight tremors: 7d 10h 21m 7d 18h 24m 8d 12h 53m
8d 22h 43m 12d 02h 49m 14d 01h 39m 15d 07h 21m
22d 16h 21m 24d 07h 25m 24d 15h 19m 28d 18h 45m
31d 06h 26m

June

6th. Weak record commences at 03h 24m

11th. eP 16h 08m 09s 1S 08m 32s i 08m 42s Distance 1.8° H = 16h 07m 43s

13th. eP 16h 16m 45s SE 18m 15s (ca) eS+N 18m 42s Distance about 8° H = 16h 14.9m

13th. Part of trace of middle distance earthquake from 19h 23m All initial phases lost in changing horizontal records. No sign of earthquake on vertical component record.

14th. eP 10h 45m 42s iS 46m 06s i 46m 16s Distance 1.9° H = 10h 45m 15s

14th. eP 20h 59m 12s iS 59m 33s Distance 1.5° H = 20h 58m 51s

15th. eP 13h 51m 05s eS 54m 25s (approx) Weak record Distance about 20° Epicentre (U.S.C.G.S.) 33°S 176°W South of Kermadec Islands. Depth approximately 300 km.

17th. eP 15h 07m 34s eS 08m 14s eS_+ 08m 27s Distance 3.3° H = 15h 06m 27s Weak record

17th. iP 15h 47m 30s eS 48m 11s (ca) Distance 3.4° (ca) H = 15h 46m 43s

18th. eP 09h 40m 45s iS 47m 52s eL_Q 52m 30s Distance (from S-P) about 49° Epicentre (U.S.C.G.S.) 9.5°N 138.9°E H = 9h 30m 52s

24th. eP 11h 22m 40s iPP 23h 30s iPPP 23m 43s eS 27m 30s Distance 29° Destructive in New Zealand. Epicentre (Wellington) 40.9°S 175.9°E H = 11h 16.5m

Slight tremors: 6d 03h 24m 7d 05h 29m 13d 06h 17m 16d 01h 29m 16d 14h 14m 17d 00h 51m 18d 08h 31m 18d 16h 03m 29d 03h 43m

<u>July</u>

7th. eP 02h 55m 56s eS 57m 18s iS_+ 57m 41s Distance 7.2° H = 02h 54m 09s

8th. Weak record of distance earthquake begins at 07h 19½m (probahly S) with eL at 07h 39½m

11th. eP 15h 40m 06s iS 40m 48s i 40m 52s Distance 3.5° H = 15h 39m 11s

12th. Weak record of distant earthquake commences at 05h 47m Probably earthquake given by U.S.C.G.S. at 0.3°S 80.1°W H = 5h 05m 16s

12th. eP 14h 02m 44s eS 03m 33s Distance 4.2° H = 14h 01m 39s

13th. iP 01h 38m 24s iS 39m 03s Distance 3.3° H = 01h 37m 33s First wave compression from S.W. Felt locally M.M. II.

14th. Record of medium distance earthquake commences 15h 44m (approx) Unable to distinguish phases.

15th. iP 19h 57m 17s iS 57m 48s iS+ 57m 51s Distance 2.5° H = 19h 57m 36s First wave dilatation from S.

28th. eP 14h 57m 07s iS 57m 26s Distance 1.5° H = 14h 56m 40s

29th. eP 04h 37.8m (ca) eS 39m 53s Distance about 11°

29th. eP 22h 59m 28s eS 23h 07m 59s Distance (from S-P) 63.8°. Epicentre (U.S.C.G.S.) 2.8°S 127.9°E which is distant about 60° H = 22h 49m 13s

Slight tremors: 03h 04h 25m 06d 22h 34m 08d 04h 10m
11d 21h 15m 12d 17h 55m 13d 01h 51m 13d 10h 18m
14d 21h 38m 15d 11h 45m 17d 17h 29m 18d 06h 27m
19d 07h 41m 21d 09h 03m 28d 00h 48m 29d 23h 48m

<u>August</u>

1st. eP 12h 40.1m (ca) e 46½m Destructive in New Zealand. Epicentre (U.S.C.G.S.) 41.1°S 176.2°E H = 12h 34m 03s Distance about 29°

2nd. iP 15h 19m 45s iS 20m 15s Distance 2.4° H = 15h 19m 06s

3rd. iP 19h 59m 26s iS 59m 44s Distance 1.4° H = 19h 59m 03s First wave dilatation from N.W. Felt locally, M.M. IV.

3rd. eP 20h 11m 39s iS 13m 44s Distance about 11° Times are only approximate due to failure of time marks. Epicentre (U.S.C.G.S.) in region of 25°S 174°W.

6th. iP 23h 49m 41s ePP 52m 19s iS 7d 00h 00m 19s L_Q 15m (ca) Epicentre (U.S.C. G.S.) 14.1°N 90.9°W H = 23h 36m 57s Distance about 85½°

13th. Very weak record of distance earthquake commences about 15h 58m (N-S component only)

18th. eP 09h 31m 48s iS 32m 27s Distance 3.3° H = 09h 30m 57s Probably deeper than normal.

19th. Weak record of distant earthquake commences 05h 56m

24th. eP 23h 03m 46s eSKS 14m 14s iS 14m 51s eSS 21m 27s eL 33m 12s Distance 93° (ca) Epicentre (U.S.C.G.S.) 14.7°S 75.0°W Near Lima Depth possibly 150 km.

29th. iP 01h 42m 14s iS 44m 42s Distance about 13° Epicentre (U.S.C.G.S.) in region of 26°S 177°W Depth approximately 500 km.

29th. eP 18h 15m 05s iS(?) 15m 39s Distance 2.9° (?)

Slight tremors: 7d 15h 03m 16d 20h 03m 17d 15h 39m
18d 09h 52m 18d 16h 00m 19d 14h 49m 20d 09h 25m
26d 00h 03m 30d 00h 30m 30d 08h 29m

<u>September</u>

3rd. iP 11h 20m 49s iS 21m 07s Distance 1.4° H = 11h 20m 26s Felt locally, M.M. IV to V.

4th. iP 10h 12m 13s iS 12m 33s Distance 1.6° H = 10h 11m 45s Felt locally, M.M. III

7th. iP 23h 33m 28s iS 34m 03s Distance 3.0° H = 23h 32m 42s

13th. eP 22h 43m 10s iS 43m 42s Distance 2.7° H = 22h 42m 28s

14th. iP 11h 35m 06s iPP 35m 35s iS 38m 27s Distance about 18½° Epicentre (U.S.C.G.S.) in region of 22°S 172°E Depth approximately 200 km H = 11h 31.2m

17th. Weak record of middle distance earthquake commences at 08h 36m 50s e 38m 36s e 40m 33s

20th. iP 23h 47m 24s e 51m 23s Weak record.

22nd. Very weak record commences at 01h 16.6m and a further phase at 01h 20.5m

23rd. Signs of very weak seismic activity at 21h 14m 35s and 21h 24m 13s.

27th. Weak record commences about 13h 46m e 13h 48m

28th. eP 16h 36m 57s iS 38m 21s Distance 7.4° H = 16h 35m 08s

Slight tremors: 2d 05h 33m 7d 07h 21m 10d 01h 30m
12d 10h 53m 17d 10h 17m 17d 11h 34m 17d 21h 29m
21d 05h 17m 26d 10h 18m

October

10th. iP 01h 01m 04s iS 01m 45s Distance 3.5° H = 01h 00m 11s Felt locally, M.M. III.

16th. eP 02h 58m 12s iS 58m 42s Distance 2.5° H = 02h 57m 33s

16th. eP 11h 33m 02s (in time gap) iS 33m 41s Distance 3.3° H = 11h 32m 11s

17th. eP 19h 18m 24s iS 18m 44s Distance 1.6° H = 19h 17m 58s

20th. iP 23h 32m 56s eE 34m 30s eS 42m 10s eL 51½m Distance (S-P interval) 71.3° Probably epicentre (U.S.C.G.S.) 7°N 123°E which is distant 68° H = 23h 21.8m Mindoro Sea, Philippines.

21st. Very weak record commences at 22h 27m

22nd. iP 19h 48m 09s iS 48m 24s Distance 1.2° H = 19h 47m 48s First wave compression from SE.

23rd. iP 01h 49m 40s iS 50m 03s Distance 1.8° H = 01h 49m 08s First wave compression from S.W.

25th. Record of middle distance earthquake commences at 06h 00m 57s First phase probably S.

26th. L waves of distant earthquake commence about 21h 40m on N-S component. Most of record lost due tooverlapping.

28th. iP 15h 29m 11s iS 29m 32s Distance 1.7° First wave compression Azimuth 240° H = 15h 28m 43s Epicentre 14.7°S 173.1°W Felt locally M.M. IV to V

30th. Very weak record commences on N-S component at 03h 17½m

Slight tremors: 18d 04h 08m 28d 08h 46m 28d 10h 57m
28d 11h 38m

November

3rd. eP 00h 00m 56s iS 01m 58s iS_+ 02m 17s Distance 5.3° H = 2d 23h 59m 39s large amplitude S waves.

5th. Very weak record of medium distance earthquake commences about 11h 30m

13th. iP 01h 09m 08s iS 09m 33s Distance 2.1° H = 01h 08m 37s Felt locally M.M. II

16th. eP 19h 47m 53s iS 48m 14s Distance 1.7° H = 19h 47m 27s

17th. eP 10h 05m 47s eS 07m 51s Distance 11.1° H = 10h 03m 08s

20th. eP 11h 46m 49s iS 47m 09s Distance 1.6° H = 11h 46m 23s Felt locally M.M. III

23rd. iP 07h 30m 23s iS 30m 44s Distance 1.7° H = 07h 29m 55s First wave compression from S.E.

26th. iP 09h 54m 54s iS 55m 15s Distance 1.7° H = 09h 54m 26s First wave dilatation from S.W. Azimuth 225° Epicentre 15.0°S 172.9°W

26th. eP 10h 35m 48s iS 36m 06s Distance 1.4° H = 10h 35m 25s

26th. iP 12h 58m 38s iS 58m 58s Distance 1.6° H = 12h 58m 12s First wave dilatation from S.W.

Slight tremors: 12d 03h 00m 23d 11h 29m 26d 10h 50m 26d 21h 21m

December

4th. Weak record of distant earthquake commences at 15h 40m 51s

16th. iP 09h 09m 27s iS 09m 42s Distance 1.0° H = 09h 09m 09s First wave compression Azimuth 210° Felt locally M.M. IV Epicentre 14.7°S 172.3°W

17th. eP 20h 30m 50s (ca) iS 31m 14s Distance about 2°

22nd. iP 04h 15m 31s eS 16m 23s Distance 4.5° H = 04h 14m 23s Large amplitude S waves.

23rd. iP 05h 22m 20s iS 22m 51s Distance 2.6° H = 05h 21m 39s First wave compression Azimuth 215° Felt locally M.M. III Epicentre 15.9°S 173.3°W

28th. iP 03h 05m 41s iS 06m 02s Distance 1.7° H = 03h 05m 13s First wave compression from S.W. Felt locally M.M. II.

Slight tremors: 01d 12h 24m 15d 17h 54m 29d 09h 17m
30d 12h 47m

NOTE:

For ease in typing the P star and S star phases of Jeffreys have been printed as P_* and S_*.

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Notes on Observations and Instruments

The observations comprise eye observations of the meteorological elements and usual instruments; continuous autographic records of air temperature, pressure, humidity, rainfall, and the direction and velocity of the wind; registration of the duration of bright sunshine and general record of occasional phenomena.

The surface observations were made regularly at 0.30 a.m., 8.0 a.m., 9.0 a.m., noon, 2.0 p.m., 3.0 p.m., and 7.0 p.m. until December 6th. From December 7th to 31st the observations were made at 1.0 a.m., 7.0 a.m., 9.0 a.m., noon, 1.0 p.m., 3.0 p.m., and 7.0 p.m. Only the 9.0 a.m. and 3.0 p.m. observations, which continue the series for climatological purposes, are published in this report. The noon readings were used mainly to provide an additional check on the self recording instruments while the observations at the four remaining times were for synoptic purposes.

Cloud

The observations of cloud form were made in accordance with international classification, the abridged edition (1932) of the International Atlas being used as a guide. Some additions have been made to the usual abbreviations for cloud forms. Fractostratus and Fractocumulus have been entered as Fs and Fc respectively. Further the meduim cloud sheet which sometimes has the appearances of Ac with parts like As, or As with parts like Ac, has been entered in the tables as Ac-As.

The cloud form given in the tables is the predominating cloud at each level: thus an observation of Cumulus 4, Stratocumulus 2. is shown under low cloud as "Cu 6."

The cloud amount was found by estimating the proportion of the sky covered by cloud, the result being expressed in terms of the numerical scale ranging from 0, cloudless, to 10, completely covered. The symbol 9+ has been used to indicate that the sky was not completely covered but that the amount of cloud was more than 9/10. When computing monthly means of cloud 9+ has been counted as 9.

Weather and State of Sky

The weather and the state of sky have been described by the use of the usual Beaufort letters. In addition a few other symbols have been used with the following meanings.

A capital letter indicates "intense"
The suffix o indicates "slight"
A letter repeated indicates "continuous"
The letter "i" indicates "intermittent"
The letter "j" indicates "within sight but not at station"
A line slightly inclined means "within the hour preceding the observation:" thus c/r = cloudy sky after rain which has fallen in the last hour.

When there are only small quantities of cloud or blue sky present, c is not used unless the sky is more than a quarter covered, and b unless there is more than a quarter of the sky free from cloud.

Visibility

The method of determining visibility is, as nearly as possible, in accordance with that described in the "Meteorological Observer's Handbook, 1939" (London), page 58. The observation of visibility consists of determining the most distant object of a selected series which is visible on any given occasion. Letters have been assigned to the objects and the appropriate letter is recorded at each observation. The reference objects are as follows:-

Indicn. Letter of Object	Description of object	Actual Distance	Standard Distance	Code Figure
D	Platform in lagoon	340 yds.	220 yds.	2
E	Lagoon House	540 yds.	550 yds.	3
F	Watson's Island	1040 yds.	1100 yds.	4
G	Pilot Station	1½ miles	1¼ miles	5
H	Tree on sky-line to west or Island huts to N.W.	2¾ miles 2 miles	2½ miles	6
J	House at Tapatapao	5¾ miles	6¼ miles	7
K	Saluafata Promontory or Mount Tofua	12½ miles 13 miles	12½ miles	8
M	Promontory of Savaii and Puga Hill	35 miles	31 miles	9

Suitable objects corresponding to I (4⅓ miles) and L

(18½ miles) have not been chosen. When the observer estimates that one of these objects would be visible if it existed the corresponding letter is recorded. Conditions in Samoa are such that the necessity for objects closer than 220 yards does not arise.

Wind

The wind speed and direction have been measured as in former years by means of a Dines pressure tube anemometer. The vane is at an elevation of 80 feet above the ground in order to avoid the sheltering influence of the trees. As a check on the instrumental recordings it has been customary for the observer to estimate the wind force and direction before reading the anemometer.

Pressure

The standard barometer in use is a Kew pattern station model instrument, G 3939. The corrections for temperature, gravity and reduction to mean sea level are made by means of a correction card which was computed at the Observatory. For the range of pressure recorded at Samoa the instrument has no index error. Temperature readings from the attached thermometer 51104 and pressure readings rounded off to the nearest ten millibars are used to enter the correction card. The standard temperature of the instrument is 284.9°a at 1000 mb.

A continuous record of pressure was obtained with Grand Model barograph No. 102030, which was made by Jules Richard of Paris. The barograms were scaled at exact hours of zone time, the readings being instantaneous values at these hours, and suitable corrections were applied. The corrections were known at the times of the control readings, (seven per day) and it was assumed that the change in the correction w was linear during the intervals between control readings.

Temperature

The standard thermometer, Fuess No. 652, the maximum and minimum as well as the wet and dry bulb thermometers are exposed in a Stevenson screen which differs from the standard pattern. The screen, which has been in use for many years, has additional protection in the form of a thatched shelter and two louvered walls.

The minimum temperature on the grass was recorded by a spirit thermometer, set on two small wooden pegs, with its bulb at a height of one or two inches above

the ground. This thermometer is read at 9.0 a.m. and set in the early evening. The maximum and minimum thermometers are read and set at 9.0 a.m. each day. The entries in the tables of this report are made in such a way that readings at 9.0 a.m. of maximum temperature are credited to the preceding day while minimum readings are entered to the day on which they are read.

The thermograph was exposed in a Stevenson screen of approved pattern. The thermograms were scaledat exact hours of zone time and corrections were applied in the same manner as for pressure. The charts are changed once a week.

Humidity

The humidity of the air has been derived from the readings of the wet and dry bulb thermometers using tables which were computed at the Apia Observatory. The tables are based on the formula used by the British Meteorological Office, which, converted to degrees centigrade, is:-

$$x = f - 0.000799(t-t')p$$

where

x = vapour pressure corresponding with given readings of dry and wet bulb thermometers.
f = saturation vapour pressure at the temperature of the wet bulb. (obtained from the 5th revised edition of the Smithsonian Meteorological Tables)
t = temperature of the dry bulb in degrees centigrade.
t' = temperature of the wet bulb in degrees centigrade
p = pressure of the air.

The tables were based on a pressure of 1010 millibars so the formula reduced to:-

$$x = f - 0.807(t-t').$$

A continuous record of humidity has also been obtained by means of a hair hydrograph which is exposed in a Stevenson screen of approved pattern together with the thermograph. The chart is changed once a week and instantaneous values are read from the chart at exact even hours of Zone Time. Corrections to the hygrograph readings were applied only when they were different from those given by the wet and dry bulb thermometers by more than five per cent.

Rain

A self recording rain gauge, Dines tilting syphon pattern (M.O. 28/37), was in operation throughout the year. The diameter of the collecting rim is 11.31 inches and the height of the rim above the ground is 28 inches. The records of this gauge are controlled by means of the standard gauge.

The standard gauge, which was constructed by Fuess, has a rim 15.95 centimetres in diameter. Its height above the ground is 65 centimetres (25½ inches). The rain collected in the inner vessel is measured each morning at 9.0 a.m. by means of a glass measuring cylinder, the readings being in millimetres. The rainfall measured at 9.0 a.m. is credited to the previous day in the tables.

Another gauge, of the pattern used by the Meteorological Office, London, is in use as a check on the older German gauges. The rim of this gauge, which is 5 inches in diameter, is at a height of one foot above the ground. Like the standard gauge, its capacity is not adequate for the torrential downpours of rain which sometimes occur in Samoa. In order to avoid loss of records on such occasions measurements are also obtained by a tropical Fuess rain-gauge which has a very large internal capacity. The standard and tropical gauges are of the Snowdon type in that they have not splayed bases like the pattern used by the Meteorological Office, London.

The rain-gauges are placed in an open grass plot and are free from shielding.

Sunshine

The sunshine recorder, M.O. 265, was mounted on a wooden platform near the sea. The exposure is good, there being no loss of record due to shielding apart from that which occurs when the sun is setting behind the low lying hills to the west. Since the sunshine is seldom, if ever, sufficiently intense to burn when the sun is so low in altitude, the loss may be considered negligible.

In one column of the table which occurs later the recorded sunshine has been expressed as a percentage of the possible duration of sunshine. In this computation the possible duration of sunshine is based on the intervals between sunrise and sunset during a year which is half way between two leap years.

Evaporation

The instrument in use to measure evaporation is a Piche evaporimeter which is exposed in a small Stevenson screen. It consists of a graduated tube which is filled with water and hangs mouth downwards. Evaporation takes place from a small disc of absorbent paper which is clamped over the mouth of the tube and the fall of level of the water inside the tube is measured. The area effective for evaporation is approximately 12½ square centimetres.

The volume of water evaporated has been divided by the exposed area of the paper disc (1250 square millimetres) to give the equivalent depth of water evaporated and the depth has been entered in millimetres and tenths in the tables.

The amount of evaporation in 24 hours, ending at 9.0 a.m., has been credited to the preceding day.

Miscellaneous Notes

Non-cyclic change.

In the tables of diurnal changes of temperature and pressure the departures from the mean of the day have been adjusted for non-cyclic change. A short method of computing the correction has been employed. The value at midnight at the beginning of the month has been subtracted from the value at midnight at the end of the month and the difference has been divided by the number of days in the month. Necessary modifications were made when there were missing days. The number so obtained has been divided proportionately assuming that the non-cyclic change comes in at a uniform rate.

Time

The time standard, upon which all the meteorological tables that follow are based, is that of the meridian 165° west of Greenwich. (i.e. zone time, which is 11 hours slow on Greenwich time).

Seasons

In tables where seasonal means are given for the Wet and Dry Seasons the means have been derived from the following grouping of months:-

Wet Season - November 1941 to February 1942 (inclusive)
Dry Season - May 1942 to August 1942 (inclusive).

Normals

The Normal values of temperature, pressure and rainfall are based on the period 1890 to 1935. Sunshine normals are based on twenty years as follows:- 1905, 1906, 1917, 1919, 1924, 1925 to 1933 and 1935 to 1940.

Meteorological Instruments in use during 1942

Anemometer: Dines pressure tube No. 233 supplied by R.W. Munro of London, 1933. The vane is 80 feet above the ground.

Barograph : Grand Model No. 102030 made by Jules Richard of Paris.

Barometers: (i) Kew pattern, station model, mercury barometer number G 3939.
(ii) Kew pattern, marine model, M.O. 2233 made by S. & A. Calderara.
(iii) Kew pattern, station model, by Fuess, No. 1469.

Evaporimeter: Piché

Hygrograph : Casella No. 1141 (M.O. 195/32).

Raingauges : (i) Casella No. 1593/32 M.O.
(ii) Fuess Standard gauge
(iii) Dines Tilting Syphon Rain-gauge M.O. 28/37
(iv) Tropical size gauge for exceptional precipitation.

Sunshine Recorder: Campbell Stokes pattern by J. Hicks, London M.O. 265/30; sphere M.O. 355/30.

Thermograph : Short and Mason No. 273.

Thermometers: Grass minimum Casella 36182.
(In screen):
Dry Bulb Calderara No. 34490
Wet Bulb Calderara No. 34491
Maximum Casella No. 17250
Minimum Calderara No. 34686

Synoptic Meteorology in the South West Pacific Region

The Observatory carried out a programme of synoptic meteorology under the direction of the Director of

Meteorological Services, Air Department, Wellington, New Zealand. The scope of this work was much the same as in 1941 except for slight modifications necessary in view of war-time conditions.

Notes on the Weather of 1942 at Apia Observatory

January

The weather during the month was generally cloudy. Showers occurred rather frequently, and often rain fell at night or in the early morning. Thunder and lightning occurred on many days, and a moderate thunderstorm brought heavy rain in the evening of the 21st. Clearer weather was experienced on the 11th.,,12th., 13th. and 19th; while from the 27th. to the 31st. the weather was generally dull, with rain.

As in December 1941, the rain recorded was only about half the normal value, although appreciable amcunts fell on nineteen days. The sunshine was greatly in excess of the normal value. Winds were generally light and variable, with a slight predominance of northwesterlies. Temperatures varied from a minimum of 73.0°F on the 13th. to a maximum of 91.0°F on the 19th. The latter was the highest temperature recorded since April 1922. The mean temperature was nearly two degrees higher than the normal value.

A trough of low pressure was centred near the Phoenix Islands at the beginning of the month, and moved southwards during the month in a series of surges associated with frontal activity. The general advance of equatorial air over the islands brought showery conditions, with westerly to northerly winds on the northern side of the trough. For some time lowest pressure was situated near Niue Island, where pressure fell to 1001 millibars. As pressure was low over a wide area, frequently extending as far as Sunday Island, strong winds were not generally experienced. The equatorial trough was situated south of Samoa for the greater part of the month. This was unusual for January. The variation from normal conditions was reflected in the predominance of northwesterly winds and in the mean pressure of 1006.5 millibars, which was 1.1 millibars less than the normal value.

February

Conditions were more typical of the "wet season"

than in the three previous months. The weather was cloudy to dull on the first three days with some rain, but fair to fine from the 4th. to the 7th.; cloudy and showery from the 8th. to the 11th.; cloudy from the 12th. to the 16th. with rain at times; cloudy, showery and thundery from the 17th. to the 23rd.; and dull, wet and squally from the 24th. to the 28th.

Rain fell on twenty days, and amounts of over an inch were recorded on four days. The total was a little less than the normal value. The heaviest rain fell on the 12th. The amount of sunshine recorded was about normal. Winds were again mainly light and variable, with a slight predominance of northwesterlies. Temperatures varied from a minimum of 75.0°F on the 11th. and 13th. to a maximum of 90.9°F on the 21st. In spite of the wetness and cloudiness of the month, the mean temperature was the highest on record for February since 1914.

The month opened with the formation of a wave on the eastern front near Rotuma. This caused unsettled weather in the Fiji-Tonga-Samoa area. More settled conditions were experienced until the arrival of another front from the southwest, and the formation of a wave on it between Niue and Tonga. A second wave later formed to the west of Tonga, causing considerable rain and strong winds in Samoa and northern Tonga. Behind this wave a trough of low pressure remained, with centres near Rotuma and Danger Island; showers and thunderstorms were frequent in this situation. The centre near Danger Island deepened, and a cyclone of considerable intensity formed between here and Suwarrow on the 19th. Considerable damage was done at these two islands and at Nassau, and the winds probably reached hurricane force. The cyclone moved slightly northeastwards, striking Rakahanga and Manihiki on the 22nd. Another centre formed between Niue and Palmerston islands on the 23rd. and caused considerable damage in this area. At the same time, frontogenesis occurred in the trough, bringing unsettled and squally conditions over Samoa and the Cook Islands. Still another cyclone originated in this trough and remained stationary between the Ellice Islands and Fiji for some days.

March

The weather was fair and showery from the 1st. to the 9th.; fair to fine from the 10th. to the 15th.; cloudy from the 16th. to the 23rd., with showers on most days; cloudy to dull from the 24th. to the 31st., frequently with rain. Throughout the month thunder and lightning were unusually frequent, and a very fine

display of lightning occurred in the early evening of the 23rd.

Rain fell on 17 days, but the total was less than two-thirds of the normal value. The sunshine recorded was about normal. Easterly winds prodominated, but on the last five days of the month winds were light and variable. Temperatures varied from a minimum of 73.9°F on the 30th. to a maximum of 88.9°F on the 13th., and the mean was more than a degree in excess of the normal value.

For some time the synoptic situation was dominated by the cyclone which had formed north of Fiji in February. This caused an invasion of tropical air in Fiji, Samoa and Tonga. A wave was induced on the reformed eastern front, giving rise to an intense cyclone in the New Hebrides. This move southwards, and reached its maximum intensity at Noumea on the 4th. Travelling southwestwards from Noumea, it deepened once more off the south Queensland coast, passed Lord Howe Island as an intense cyclone on the 8th., and reached the west coast of New Zealand on the 9th. Meanwhile anticyclonic conditions had been established between Sunday Island and Rapa, giving typical "Trade Wind" weather in Samoa, Fiji and Tonga. This re-establishment of the eastern front in this area caused further disturbed weather. The front became stationary across Samoa and the southern Cook Islands on the 19th., and a wave travelled over the latter group, causing considerable rain. Another small wave later travelled over Samoa, and the front still remained active at the end of the month.

April

The weather was mainly rather cloudy, but with a fine, dry spell from the 16th. to the 22nd. From the 3rd. to the 15th. thundery and showery conditions occurred frequently, with rain at times. The weather was rather unsettled again on the 25th. and 26th., and the 28th. was wet and squally.

Rain fell on 12 days. The sunshine recorded was about normal. Easterly winds predominated, and were generally lighter than in March. Temperatures varied from a minimum of 70.9°F on the 22nd. to a maximum of 87.6°F on the 2nd. The mean temperature was somewhat above the normal value, but much less than in April 1941.

At first a belt of high pressure extended eastwards from south of Sunday Island. Weak frontal activity continued in Samoa and the surrounding islands. A

cyclone formed in the New Hebrides on the 8th. A new outburst of polar air from the south increased the intensity of the storm, which reached a maximum at Noumea on the 10th. After this the low diminished in intensity, but continued to move southwards, affecting Norfolk Island and northern New Zealand. Meanwhile an anticyclone centred to the southeast was affecting this region. An invasion of equatorial air occurred on the 18th., and a wave in the front formed north of Palmerston Island. The low persisted in this area, and soon became associated with part of a rather well-defined equatorial front extending eastwards from the Ellice Islands. Moving southwestwards, the same low induced a wave on an eastward-moving meridional front. The wave later affected Sunday Island. The frontal activity was again rather weak in the Samoan region; but yet another invasion of equatorial air on the 29th. was associated with rain over a wide area.

<u>May</u>

From the 1st. to the 13th. the weather was mainly cloudy. There were thunderstorms on the 3rd., and 4th., some rain on the 5th., and showers on the 6th., 7th., 8th. and 11th. From the 14th. to the 24th. the weather was mainly fine and dry. For the remainder of the month the weather was rather variable, with light showers on the 28th., 29th. and 30th.

Rain fell on only 11 days, and the total was less than the normal value. Nearly half of the total rainfall fell in an hour in a violent thunderstorm on the 4th. This amount of 2.04 inches was the greatest recorded in one hour since 1939. The sunshine was considerably above the normal value. Temperatures varied from a minimum of 70.3°F on the 21st. to a maximum of 89.2°F on the 26th. Easterly winds predominated, and were in general light to moderate.

A wave formed west of Tonga on a southward moving warm front. The cold front passed over Samoa and the wave affected the southern Cook Islands. Anticyclones remained centred for some time south of Sunday Island and east of Rapa, with a slight trough between them. A new anticyclone reached Sunday Island behind a meridional front. A low formed in the New Hebrides and moved rapidly southwards, inducing a wave on another eastward-moving meridional front. During this time anticyclonic conditions persisted from Suva to Papeete, but on the 17th. a low formed east of the southern Cook Islands, and remained stationary in this area for some days. To the north and east of the low, showers and thunderstorms were frequent, but fine weather prevailed in the wedge to the west. Towards the end of the month another meridional front passed over Tonga and Fiji.

June

From the 1st. to the 9th. the weather was mainly fair and at times windy. Two days of wet squally weather followed, with a spell of fine weather again to the 16th. From the 17th. to the 20th. the weather was cloudy to dull, and squally on the 18th. and 19th., with both rain and showers. From the 21st. to the 24th. the weather was mainly fair to fine, with showers on the 21st. The 25th. and 26th. were cloudy, with showers and rain. The month closed with four days of fair to fine weather.

The rainfall was a little above average, but there were only 11 rain days. The sunshine was slightly above normal. Temperatures varied from a minimum of 71.1°F on the 30th. to a maximum of 88.0°F on the 2nd., and were generally above normal. Easterly winds predominated, and were strongest on the 10th. and 11th., when they averaged 20 miles per hour over the two-day period.

The low which had originated in eastern Australia late in May moved over Sunday Island, while the associated cold front moved over Fiji and northern Tonga. After this frontolysis occurred, and an anticyclone formed with centre east of Rarotonga. Meantime another low formed near Lord Howe Island and moved eastwards. The cold front associated with this low passed over Fiji and southern Tonga, and later over northern Tonga and then disappeared. On the 9th. and 10th. a large anticyclone centred over New Zealand gave straight isobars in the Pacific Islands, but showery conditions soon set in, with squalls in Samoa. On the 12th. a low developed northeast of Norfolk Island, and the passage of the associated cold front caused disturbed conditions over Fiji and Tonga. The front passed over Samoa with little disturbance, but returned as a warm front on the 18th., and caused squally and showery weather in this area for some days. The front moved southward over the northern Tongan stations, and wave formation then occurred near Niue. The cold front once again passed over Samoa and northwards, while the wave moved over Rarotonga. Behind the front an anticyclone centred south of Sunday Island gave more settled conditions.

July

From the 1st. to the 10th. the weather was mainly fine with several clear cool nights. From the 11th. to the 14th., the weather was squally, showery and windy. Two fine days followed, but there was further unsettled weather on the 17th. and 18th., with a

thunderstorm on the latter day. The alternation of fine weather with unsettled weather continued: the 20th. was dull and wet, the 23rd. and 24th. showery and squally. Rain occurred again on the 25th., and finer weather prevailed for remainder of the month, except for further rain on the 28th.

The rainfall was about twice the normal value. The sunshine was normal. Temperatures varied from a minimum of 68.2°F on the 6th. to a maximum of 85.8°F on the 16th., and were generally above normal, but considerably less so than in June. Easterly winds predominated and averaged 22 miles per hour on the 15th. Relative humidities of less than 60 per cent were recorded on the 5th., 9th., and 22nd.

The month started with a pronounced anticyclonic development between Rapa and Sunday Island, and a quasi-stationary front north of Samoa. A wave formed south of Suwarrow and moved over Rarotonga. In the resulting low a new front was formed lying north of Samoa and south of Tahiti. This front persisted for many days, and gave squally and unsettled weather over Samoa and the Manihiki islands. Meantime a cold front had advanced from the west, and had passed over Fiji and Tonga by the 25th. Behind this front an anticyclone formed in the Rarotonga - Papeete region. The next cold front from the south-west became stationary over Fiji and Tonga, and wave-formation occurred.

August

From the 1st. to the 10th. the weather was particularly fine except for rain on the 3rd. From the 11th. to the 21st., the weather was more variable; the 11th. to the 13th. were showery, and the 15th. was dull, with rain; the weather was also rather unsettled from the 18th. to the 21st. From the 22nd. to the 27th. the weather was again fine, but from the 28th. to the 31st. it was rather showery.

The rainfall was somewhat below normal. The sunshine was normal. Temperatures varied from a minimum of 71.6°F on the 16th. to a maximum of 86.2°F on the 5th., and were generally above normal. Winds during the day were almost exclusively easterly, and the mean wind force of 12.1 m.p.h. was the highest on record since the new anemometer was installed in 1933. Squalls occurred several times in the early part of the month. Low relative humidities were recorded on the 23rd, and 27th.

The synoptic charts showed again a succession of cold fronts passing from southwest to northeast, with

anticyclones between, the associated pressure changes being clearly visible at Rapa. The tendency for these fronts to become quasi-stationary in the Samoa region was much less than in July, and in general the fronts were less active.

September

The weather was generally rather showery. There were two short spells of fair to fine weather, the 2nd. to the 4th., and the 12th. to the 15th. The 6th., 7th., and 8th. were dull with rain, and a thunderstorm with heavy rain occurred in the evening of the 18th. Otherwise the weather was showery. Squally weather was experienced with the showers from the 16th. to the 20th., and on the 23rd. and 24th.

The rainfall was considerably above normal, and the number of rain days, 18, was also unusually large for September. The sunshine was below normal. Temperatures varied from a minimum of 68.4°F on the 5th. to a maximum of 87.6°F on the 24th., and were generally a little above normal. Winds during the day were from an easterly quarter, except for light northerly to westerly winds on the 20th. and 21st. Strong easterlies were recorded every day from the 12th. to the 18th.; but for the month the mean wind-force was considerably less than in August.

At the beginning of the month an anticyclone was centred east of Rapa and another near Sunday Island, with a cold front stretching from Samoa through the Cook Islands to a point west of Rapa. The easterly anticyclone remained nearly stationary for some time, resulting in wave formation on the front. The northern end of the front retained activity as a warm front till the 11th., when it passed over Suva and northern Tonga. A second eastward-moving cold front passed over the area more rapidly, but the anticyclone behind it remained stationary for some days southeast of Rapa. As a result, the third meridional front of the month became nearly stationary as it stretched from the Ellice Islands across northern Tonga and further southeastward. A fourth meridional front passed over Tonga and the Cook Islands at the end of the month, and the anticyclone which had remained nearly stationary east of Rapa for 12 days moved on eastward.

October

There were two spells of fair and dry weather, the 6th. to the 10th. and the 16th. to the 19th. Otherwise the weather was mainly showery. Rain occurred on the

11th. and 12th., the 20th. to the 22nd., and the 31st. Thunderstorms were associated with the rain on the 20th., 22nd. and 31st.

The rainfall was considerably above normal and rain fell on 16 days. The sunshine was above normal, and there were only three days with less than 3 hours sunshine. Temperatures varied from a minimum of 70.9°F on the 17th. to a maximum of 86.4°F on the 8th. and 29th and were only slightly above normal. Winds were generally from an easterly quarter, and not quite as strong as in September.

At the beginning of the month anticyclones were centred over New Zealand and east of Rapa respectively, while between them lay a quasi-stationary front, extending to the north of northern Tonga, and between the Cook Islands and the Austral Islands. As the westerly anticyclone extended further eastwards, the southeastern end of the front moved over the Society Islands. In the Samoa-Tonga area, however, the front showed little movement at first, and a wave formed between Tonga and Niue. The front then moved slowly northeastwards, while the wave moved over the Cook Islands and Rapa. The advance of the next meridional front did not affect the Samoa-Tonga area; but with an anticyclone centred south of Rapa on the 20th., an influx of equatorial air occurred north of Samoa. Wave formation occurred in the warm front, and the wave affected Tonga and Niue. The last days of the month saw the passage of another meridional front over Tonga and Niue.

November

For the most part the weather was fair to cloudy with showers. Rain occurred on the 6th. and 7th., the 19th. and 20th., and the 23rd. and 24th. On the 6th., 23rd. and 24th. thunderstorms were associated with the rain. From the 25th. to the 31st. the weather was fair to fine.

The rainfall was about normal, but the showery nature of the weather made the number of rain days, 18, rather large. The sunshine was considerably above normal. Temperatures varied from a minimum of 70.2°F on the 26th. to a maximum of 86.7°F on the 13th. and were only slightly above normal. Winds were predominantly from an easterly quarter, but at times northerly winds were reported. Squalls were experienced on several occasions.

In the early part of the month, a meridional front moved slowly from the southwest and considerable wave-

formation occurred in the Samoa-Tonga-Rarotonga area. The waves were shallow, with lowest pressures 1002 millibars. The front finally moved over the Puamotus, and dissolved in that area. A low was left extending from Samoa to northern New Zealand, with a cold front which moved over Samoa and Tonga. As the low moved on, the area came under the influence of an anticyclone extending from Sunday Island to Rapa. In the northern Cook Islands and the Tokelaus, however, a surge of equatorial air occurred during this period.

December

From the 1st. to the 18th. the winds were easterly, and the weather was mainly showery, with thunderstorms on three occasions. From the 19th. to the 25th. the winds were mainly light and variable, and the weather dull and wet. From the 25th. to the 29th. the weather was showery, and winds northerly to westerly. The 30th. and 31st. were dull with rain and squalls, the winds being northerly to easterly.

The rainfall of 20.53 inches was considerably above normal, and the highest for December since 1938. Temperatures varied from a minima of 71.2°F on the 1st. and 24th. to a maximum of 86.9°F on the 9th. The mean temperature was below normal. In spite of the high rainfall the sunshine was above normal.

The surge of equatorial air in the Manihiki-Ellice islands area continued its slow southward motion as far as Fiji and southern Tonga, while an anticyclone remained stationary east of Sunday Island. A weaker surge of equatorial air crossed Samoa on the 13th. The anticyclone moved on eastwards and behind it a meridional front crossed southern Tonga. A wave formed on the front near Niue Island, and as the front lay across Samoa, another surge of equatorial air occurred on the 22nd. There was little change in the position of these fronts for some days, and further wave-formation occurred, this time northwest of Fiji. A tropical cyclone developed quickly out of this second wave on the 28th., and moved towards Fiji.

1,000/7/32—3911] APIA OBSERVATORY

METEOROLOGICAL OBSERVATIONS.

9 a.m. JANUARY 1942

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	WEATHER. Since previous Observation.	At Time.	Visibility.	WIND. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	TEMPERATURE AND HUMIDITY. Dry Bulb (°C).	Wet Bulb (°C).	Relative Humidity (%).	Vapour Pressure (Millibars).	UPPER CLOUD. Type observed.	Direction whence coming.	Speed : Height Ratio.
1	Cu	-	-	3	3	3500		bc b bc	bc	M	E	3	1009.2	29.8	26.8	78%	32.9			
2	Cu	Ac	Ci	2	9	3000		bccprc	c	M	E	1	1009.6	28.1	25.1	78	29.5			
3	Cu	-	Ci	3	9	2000		cltcprc	c	M	E	4	1009.9	29.7	26.8	79	32.9			
4	Cu	Ac	Ci	4	7	3000		cprqlpr	bc	K	CALM	0	1009.3	28.6	26.0	81	31.5			
5	Cu	Ac	Ci	1	9	3500		bcjprc	c	M	NW	1	1007.3	28.2	25.0	75	29.1			
6	Sc	Ac	Ci	Tr.	9+	3000		c l	c	M	SE	1	1005.6	28.6	25.8	79	31.0			
7	Cu	Ac	Ci	1	9	3500		c l irc	c	M	WSW	1	1005.0	28.9	26.1	79	31.6			
8	Sc	Ac	-	6	10	2500		cprlrq	c/pr	K	SSE	2	1006.5	27.0	25.4	88	31.2			
9	Fs	As	Cs	6	9+	3000		corrltc	cpro	K	ENE	3	1006.9	27.0	25.6	88	31.7			
10	Sc	Ac	Ci	2	8	3500		cpr$_o$ltc	c	K	NNE	1	1008.2	28.2	25.8	82	31.4			
11	Sc	Ac	Ci	9	9	3000		bcblbcc	c	M	CALM	0	1009.4	27.9	24.2	72	27.2			
12	Cu	-	Ci	2	8	3500		bcbbcc	c	M	NNE	1	1010.1	27.7	22.7	63	23.6			
13	Sc	-	Ci	Tr.	1	3500		bc b	b	M	CALM	0	1009.2	27.8	24.3	74	27.6			
14	Sc	Ac	-	6	8	3000		bcprc	c	M	SSW	1	1008.1	27.3	25.4	85	30.9			
15	Sc	-	Ci	2	2	3500		bcpclbc	b	M	NE	2	1007.5	27.9	24.8	77	28.8			
16	Cu	Ac	Ci	6	8	3000		bclcpbc	cjpr	M	NNE	1	1007.9	28.3	25.4	78	30.1			
17	Sc	Ac	-	9	9+	3500		clpr$_o$ c	c	M	CALM	0	1007.9	27.0	24.8	83	29.5			
18	Sc	Ac	Ci	8	9+	3000		crcprc	cjr	M	SW	2	1006.0	27.0	25.6	89	31.7			
19	Sc	-	Ci	3	4	3000		c bc l	bc	M	WNW	2	1004.0	29.1	25.1	71	28.7			
20	Cu	-	Ci	1	8	3500		bc c l	c	M	W	2	1005.3	28.7	25.5	76	30.1			
21	Sc	Ac	Cs	8	9	3000		c bc	c	M	E	1	1008.3	28.8	25.7	77	30.5			
22	Cu	Ac	Ci	3	7	3000		cptlRbc	bc	M	WSW	1	1009.8	29.7	26.9	80	33.3			
23	Cu	Ac	Ci	4	7	3000		bcclrr	bc	M	E	1	1010.2	29.2	26.2	78	31.6			
24	Sc	Ac	Ci	5	9	3500		cpr$_o$lbc	c	M	CALM	0	1009.6	28.8	25.5	76	30.0			
25	Sc	Ac	Ci	7	9	3000		cpr$_o$ c	cjpr	K	SE	3	1008.2	26.6	25.2	89	30.9			
26	Cu	Ac	Ci	1	6	3000		c l bc	bc	M	NW	2	1006.9	28.9	25.8	77	30.7			
27	Sc	As	Ci	4	9+	1000		cprccrr	c	M	N	1	1006.3	27.3	25.9	89	32.3			
28	Sc	As	-	6	10	1500		cr$_o$r$_o$	c	K	S	2	1004.8	28.9	25.5	75	29.9			
29	Cu	Ac	Ci	1	9	3000		cr$_o$r$_o$ c	c	M	W	3	1003.7	29.1	26.1	78	31.4			
30	Sc	Ac	Ci	2	8	4000		c bc c	c	M	CALM	0	1004.7	29.7	25.8	72	30.1			
31	Fs	Ns	-	2	10	400		c crr c	ciR	G	W	1	1006.3	25.8	25.1	94	31.3			
Means	-	-	-	3.8	7.8	2900		-	-	-	-	1.4	1007.4	28.3	25.5	79.4	30.4			

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METEOROLOGICAL OBSERVATIONS.

APIA OBSERVATORY — 3 p.m. JANUARY 1942

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	WEATHER. Since previous Observation.	At Time.	Visibility.	WIND. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	TEMPERATURE AND HUMIDITY. Dry Bulb (°C).	Wet Bulb (°C).	Relative Humidity (%).	Vapour Pressure (Millibars).	UPPER CLOUD. Type observed.	Direction whence coming.	Speed: Height Ratio.
1	Cu	Ac	Ci	5	7	3000		bc	bc	M	ENE	3	1008.4	30.3	26.8	75%	32.4			
2	Cb	-	Ci	2	9	4000		c	c	M	E	4	1008.0	30.7	26.9	73	32.4			
3	Cb	Ac	Ci	6	9	3000		c	c/pr	M	ESE	6	1007.2	31.0	27.6	76	34.2			
4	Cu	Ac	Ci	3	7	3000		bc jpr	bcjpr	K	E	4	1006.3	30.3	26.8	75	32.4			
5	Sc	Ac	Ci	4	8	3000		c	c	M	SSW	1	1004.8	28.9	25.8	77	30.7			
6	Cu	Ac	Ci	5	9+	3000		c	c	M	NNE	2	1003.8	29.0	26.0	78	31.2			
7	Cu	As	Ci	3	10	3000		c	c	M	NNW	4	1004.3	29.3	26.8	82	33.3			
8	Sc	As	-	6	10	2000		cprt	c	K	W	1	1004.7	28.0	26.2	86	32.6			
9	Cu	Ac	Ci	4	9	3000		c	cjpr	K	WNW	3	1004.4	28.8	26.0	79	31.4			
10	Cu	Ac	Cs	3	5	3000		c bc	bc	M	N	3	1005.2	29.0	25.8	76	30.7			
11	Cu	-	Ci	3	4	3000		c bc	bc	M	SSW	3	1007.2	30.1	24.3	60	25.7			
12	Sc	Ac	Cs	2	4	3500		bc b bc	bc	M	ENE	2	1007.0	29.0	24.3	66	26.6			
13	Cu	Ac	Ci	1	3	3500		b bc	bc	M	NNE	2	1006.1	28.5	23.8	66	25.7			
14	Sc	Ac	-	6	7	3000		c bc t	bc	M	N	2	1005.6	28.6	25.0	74	28.8			
15	Sc	Ac	Ci	6	6	2000		b bc	bc/t	K	NE	2	1005.4	29.7	25.8	72	30.1			
16	Cu	As	-	3	9+	2000		c bc c	c	M	NW	2	1005.7	28.6	25.2	75	29.3			
17	Sc	Ac	Ci	5	9	2000		c	cpr_o	M	E	3	1005.1	29.0	25.7	76	30.4			
18	Sc	As	Ci	5	9	1500		cpr_o	c	M	NW	2	1003.7	28.0	25.8	83	31.5			
19	Cu	-	Ci	1	3	3000		$bcpr_o$bc	bc	M	W	3	1001.4	31.8	25.8	64	29.0			
20	Cb	Ac	Ci	4	9+	3000		c	c	K	WNW	5	1004.6	29.6	26.0	74	30.7			
21	Sc	Ac-As	Ci	3	9	3000		c	c	M	ENE	1	1006.3	29.6	26.0	74	30.7			
22	Cb	Ac	Ci	1	4	3000		bc	bc	M	NW	1	1007.2	30.0	26.9	78	33.0			
23	Sc	-	Cs	6	9+	3000		c	cjpr	K	SE	3	1008.1	30.0	26.0	72	30.4			
24	Sc	As-Ac	Cs	4	9+	3000		ctpr	c/pr_o	M	N	1	1006.4	29.4	26.9	82	33.5			
25	Sc	Ac	Cs	4	9+	3000		$cjpr^oc$	c	M	NW	1	1005.4	28.7	26.6	84	33.2			
26	Cb	Ac-As	Ci	2	7	3000		bc	bcjpr	K	NW	3	1004.1	29.7	26.3	75	31.5			
27	Fs	Ac	Ci	8	9+	1000		bc cpr_o	cpr_o	K	CALM	0	1005.0	27.9	26.1	86	32.4			
28	Fs	As	-	4	10	1000		c r_or_o	cr_or_o	K	E	1	1002.4	27.9	26.4	94	33.9			
29	Sc	Ac	Ci	4	9	3000		c	c	M	WNW	5	1001.8	29.4	26.7	80	32.9			
30	Sc	Ns	-	6	10	3000		cpr cr_o	cr_or_o	H	N	3	1003.6	26.1	25.3	93	31.6			
31	Sc	As	-	7	10	1500		c1R c	cjr	M	NW	5	1004.5	28.2	26.0	83	31.9			
Means	-	-	-	4.1	7.8	2700		-	-	-	-	2.6	1005.3	29.2	26.0	77.0	31.1			

METEOROLOGICAL OBSERVATIONS.

JANUARY 1942

Day of Month.	Thermometers.				Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
	Maximum (°C)	Minimum (°C)	Grass Minimum (°)	Black Bulb in vacuo (°)				
1	31.1	24.5	22.7		3.8	10.1		1.9
2	31.0	24.2	22.9		Trace	11.6		2.6
3	31.3	25.2	23.9		4.6	9.8		1.6
4	30.8	25.6	24.0		-	9.2		2.6
5	30.6	24.3	22.3		-	8.8		2.2
6	30.6	25.2	23.7		12.2	5.1		1.5
7	29.7	25.2	25.0		18.8	2.7		0.7
8	28.7	25.7	24.6		12.5	0.2		0.2
9	29.7	24.7	23.6		Trace	4.7		2.4
10	29.9	24.7	22.8		2.6	10.3		2.3
11	30.4	24.2	22.4		-	9.7		3.5
12	30.0	23.9	20.7		-	11.2		3.0
13	29.4	22.8	21.2		1.1	11.9		3.0
14	29.8	24.7	23.2		12.8	7.5		1.3
15	30.4	24.3	23.2		0.2	11.7		2.2
16	29.2	24.8	23.5		11.6	6.1		1.8
17	30.4	24.4	23.8		13.9	3.7		1.4
18	29.3	25.3	24.6		Trace	3.4		2.2
19	32.8	25.8	24.2		-	11.5		3.8
20	30.7	26.2	23.7		-	7.6		2.9
21	30.2	24.4	23.2		34.1	3.8		1.8
22	30.7	25.1	24.4		21.0	10.4		1.9
23	30.6	25.2	24.2		Trace	7.8		2.1
24	31.1	24.9	23.8		0.3	7.2		2.0
25	29.8	26.0	24.9		-	1.9		1.8
26	30.1	25.4	24.3		13.3	10.3		2.1
27	29.9	25.6	24.8		2.3	3.0		1.8
28	29.2	26.1	25.0		8.9	0.0		1.4
29	30.8	26.1	24.5		-	9.7		3.3
30	30.8	25.1	23.4		22.2	3.7		0.3
31	28.6	24.4	23.5		50.8	0.6		0.2
Sum	-	-	-		247.0	215.2		61.8
Mean	30.3	25.0	23.6		-	6.9		2.0

1,000/7/32—3911] APIA OBSERVATORY

METEOROLOGICAL OBSERVATIONS. 9 a.m. FEBRUARY 1942.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	At Time.	Visibility.	Wind. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°F).	Wet Bulb (°F)	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed; Height Ratio.
1	Sc	As	-	3	10	2500		coRcrr	c	M	S	1	1007.0	25.8	25.0	93%	31.1			
2	Sc	Ac	-	2	8	3000		crrcpr$_o$	c	M	ENE	1	1008.2	27.6	25.1	81	29.9			
3	Sc	-	-	9+	9+	2000		cpr$_o$rr	c	K	CALM	0	1010.6	27.2	25.4	86	31.0			
4	Sc	Ac	Ci	4	8	3000		c	c	M	CALM	0	1010.9	29.0	25.8	76	30.7			
5	Cu	-	Ci	1	5	3000		c bc	bc	K	CALM	0	1010.4	28.3	25.3	77	29.9			
6	Cu	-	Ci	2	3	2000		ctpr$_o$bc	bc	M	CALM	0	1009.1	29.0	25.4	74	29.6			
7	Cu	Ac	Ci	1	4	3500		bc	bc	M	CALM	0	1007.7	29.3	25.9	75	30.7			
8	Cu	As-Ac	Cs	1	9+	3500		c bc c	c	M	ESE	1	1006.8	27.7	25.6	84	31.2			
9	Cu	-	Ci	4	6	3000		c bc	bc	M	E	1	1007.4	28.8	26.0	79	31.4			
10	Cu	Ac	Ci	2	6	3500		bc	bc	M	ESE	1	1006.2	29.6	26.1	75	31.0			
11	Sc	-	Ci	2	7	2000		bcbbcPR	bc	M	CALM	0	1004.0	29.0	25.8	76	30.7			
12	Sc	Ac	Ci	4	9+	2000		c	c	M	CALM	0	1004.6	28.5	25.9	81	31.4			
13	Sc	As	-	3	10	2000		cqRRccr	c	M	WNW	4	1004.5	27.8	25.3	81	30.3			
14	Sc	Ac	-	3	9+	2000		bcclprc	c	M	W	2	1004.0	28.3	25.6	79	30.7			
15	Cu	Ac	Cs	1	9	3000		c bc c	c	K	CALM	0	1006.4	28.1	25.5	80	30.6			
16	Cu	-	Ci	3	9+	3000		c bc c	c	M	CALM	0	1006.3	28.4	26.0	82	31.7			
17	Cu	Ac	Ci	1	8	3000		cpr$_o$bcl	c	M	CALM	0	1005.0	29.2	26.2	78	31.6			
18	Sc	-	Ci	6	9+	3000		cjptlpr	cjpr	M	E	4	1005.3	30.0	27.3	80	34.1			
19	Sc	As	Ci	4	9+	3000		cprltc	c	K	W	3	1005.9	27.8	26.1	87	32.5			
20	Sc	Ac	-	6	10	2000		ctlpr	cpr$_o$	M	CALM	0	1004.3	26.6	25.4	90	31.5			
21	Sc	-	Ci	7	8	3000		cbwbcc	cjpr	M	CALM	0	1003.4	29.3	26.3	78	31.8			
22	Sc	Ac	Ci	3	7	3000		bcpr$_o$b	bc	M	CALM	0	1002.5	28.9	26.2	80	31.9			
23	Cu	-	Cs	1	9	3000		bc c	c	M	CALM	0	1001.8	28.4	25.7	80	30.9			
24	Cb	-	-	10	10	3000		c cpr	cqR	K	NW	5	1004.0	27.5	25.9	88	32.2			
25	Sc	Ac	Cs	7	9+	2000		cpr c	cpr$_o$	K	WNW	4	1006.2	27.8	25.3	81	30.3			
26	Sc	Ns	-	2	10	3000		coRqcr$_o$	cr$_o$f$_o$	M	CALM	0	1006.8	25.1	24.4	94	30.0			
27	Sc	As	-	9	9+	1000		cir$_o$orq	cjr/r	K	N	4	1007.6	28.4	26.0	82	31.7			
28	Sc	As	Ci	3	9+	2500		cr$_o$ oR	c	K	ENE	5	1009.7	28.3	25.4	78	30.1			
29																				
30																				
31																				
Means	-	-	-	3.7	8.1	2700		-	-	-	-	1.3	1006.3	28.2	25.7	81.3	31.1			

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METEOROLOGICAL OBSERVATIONS.

APIA OBSERVATORY — 3 p.m. FEBRUARY 1942.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	WEATHER. Since previous Observation.	At Time.	Visibility.	WIND. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	TEMPERATURE AND HUMIDITY. Dry Bulb (°C).	Wet Bulb (°C).	Relative Humidity (%).	Vapour Pressure (Millibars).	UPPER CLOUD. Type observed.	Direction whence coming.	Speed: Height Ratio.
1	Cu	Ac	Ci	6	9	3000		cpr$_o$ c	cpr$_o$	K	N	1	1006.0	28.8	25.6	76%	30.3			
2	Sc	As	Ci	7	9+	2000		c	cpr$_o$	M	NE	1	1007.0	29.0	26.0	78	31.2			
3	Sc	Ac-As	Ci-Cs	2	9	1500		cpr$_o$ c	c	M	E	1	1008.0	28.3	25.8	81	31.2			
4	Cb	Ac	Ci.	6	7	3000		c bc	bc	M	N	1	1009.3	29.8	25.8	71	30.0			
5	Cb	Ac	Ci	5	6	2000		bc	bcjpr	M	ENE	3	1008.5	31.1	27.7	76	34.4			
6	Cb	-	-	9	9	2500		bcjpr	cpr$_o$	M	S	1	1006.5	29.1	26.1	78	31.4			
7	Cb	Ac	Ci	5	8	3000		b c t c	c	M	ENE	1	1005.2	30.8	26.7	71	31.8			
8	Cb	Ac	Ci	6	9	2000		cctpr	cjpr	K	ENE	3	1005.2	28.1	26.3	87	32.8			
9	Cu	-	Ci	6	8	3000		bcjpr	c	M	NW	1	1005.1	29.1	26.0	77	31.1			
10	Cb	As-Ac	Ci	5	8	4000		ctlpr	cj/pr	M	S	1	1004.2	26.5	25.2	90	31.0			
11	Fs	As-Ac	Ci	5	8	2500		bcjprtc	cjpr	M	NW	3	1002.9	29.8	26.8	78	32.9			
12	Fs	As	-	6	10	2000		cbccpr$_o$	cpr$_o$	K	NW	4	1003.9	28.8	26.3	81	32.2			
13	Sc	Ac	Ci	3	7	2000		c bc	bc	K	NW	6	1001.7	29.2	26.5	80	32.5			
14	Cu	-	Cs	2	9	3000		c	c	K	E	2	1002.8	30.8	27.0	74	32.6			
15	Sc	As	-	8	9+	2000		cir	cir$_o$	K	CALM	0	1004.4	27.4	25.9	88	32.2			
16	Cu	Ac	Cs	3	9+	2500		cjpr	c	K	WSW	1	1004.0	30.2	26.6	74	32.0			
17	Cb	Ac	Ci	7	9+	1500		c t	cjprt	M	WSW	2	1003.2	29.9	26.6	76	32.2			
18	Cu	Ac	Ci	4	9	3000		c	c	K	ESE	5	1003.6	30.9	27.8	78	34.9			
19	Fs	-	Cs	8	9+	2000		ctpr c	ctjr	K	WSW	1	1003.0	28.0	26.1	85	32.3			
20	Sc	As	Ci	5	9+	2000		cpr c	cjpr	M	NE	2	1001.9	29.0	26.4	81	32.4			
21	Cu	-	Ci	4	7	3000		bc	bc	M	ESE	1	1000.4	31.5	26.9	69	31.8			
22	Cu	-	Ci	5	7	2500		bc	bcpr$_o$	M	N	1	999.7	30.0	26.1	72	30.7			
23	Cb	As	Cs	5	9+	3000		cprtc	c	K	SSW	1	1000.8	29.0	26.2	79	31.8			
24	Sc	As-Ac	-	3	10	3000		crr c	c	M	W	4	1001.6	28.1	25.6	80	30.9			
25	Sc	Ac-As	-	8	9+	2500		cpr$_o$ c	cjpr	K	NW	6	1004.1	28.9	26.4	81	32.4			
26	Sc	As	-	5	10	1500		cir$_o$	cir$_o$	K	N	3	1004.7	27.1	25.5	87	31.4			
27	Sc	Ns	-	5	10	1000		cr$_o$q	cr	H	NNE	3	1005.7	27.2	26.0	90	32.7			
28	Sc	As	-	4	10	2500		cqiR	ci°R	E	NNE	1	1008.4	26.1	25.2	93	31.3			
29																				
30																				
31																				
Means	-	-	-	5.3	8.6	2400		-	-	-	-	2.1	1004.3	29.0	26.3	79.7	31.9			

METEOROLOGICAL OBSERVATIONS.

FEBRUARY 1942.

Day of Month.	Thermometers. Maximum (°)	Minimum (°)	Grass Minimum (°)	Black Bulb in vacuo (°)	Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
1	29.3	24.9	24.3		13.0	3.2		0.2
2	29.3	24.8	24.1		8.0	3.0		1.5
3	29.2	25.0	24.4		6.2	4.6		1.4
4	30.3	24.9	23.9		-	10.4		2.2
5	31.4	24.7	23.7		Trace	11.1		2.1
6	31.4	24.7	23.3		-	9.9		2.3
7	31.3	25.0	23.7		-	9.8		2.1
8	29.9	25.2	23.7		2.1	3.0		1.5
9	29.9	24.1	22.8		-	9.0		2.1
10	30.8	24.9	23.5		30.9	7.4		1.0
11	30.6	23.9	23.1		0.4	8.6		2.1
12	29.9	25.2	24.4		93.5	4.7		0.8
13	30.7	23.9	23.4		Trace	6.6		3.0
14	31.0	26.2	24.0		-	5.0		2.2
15	29.3	24.9	23.5		5.7	5.1		1.4
16	30.5	24.7	23.5		Trace	9.3		2.0
17	31.7	25.0	23.8		2.7	7.3		1.8
18	31.3	26.6	25.3		8.4	6.9		1.8
19	29.6	26.1	25.0		2.9	2.4		1.2
20	29.5	25.2	24.5		0.4	0.8		1.4
21	32.7	25.4	24.0		0.5	11.3		2.8
22	30.5	25.5	24.0		1.8	9.9		2.2
23	30.0	25.4	23.8		3.8	5.6		2.2
24	28.4	26.0	25.7		22.0	0.2		1.2
25	29.1	25.2	24.0		54.2	3.7		0.7
26	28.6	24.1	23.6		11.2	0.0		1.2
27	28.6	24.8	-		32.1	0.0		1.7
28	30.2	24.4	24.0		38.7	2.2		0.6
29								
30								
31								
Sum	-	-	-		338.5	161.0		46.7
Mean	30.2	25.0	24.0		-	5.7		1.7

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METEOROLOGICAL OBSERVATIONS.

APIA OBSERVATORY — 9 a.m. MARCH 1942.

Day of Month.	Cloud. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	At Time.	Visibility.	Wind. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°C).	Wet Bulb (°C).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed: Height Ratio.
1	Sc	Ac	Ci	7	9	2000		c iR c	cpr$_o$	K	ESE	2	1010.9	27.0	25.4	87%	31.2			
2	Sc	Ac	Ci	5	8	2500		cpltcPR	cjpr$_o$	K	NE	3	1012.2	29.0	26.8	84	33.5			
3	Sc	Ac	Ci	6	9	3000		cltprc	c	K	NW	1	1013.9	25.9	24.3	87	29.1			
4	Cu	-	Ci	5	5	2000		bccpr$_o$b	bcjpr	M	ESE	1	1013.1	29.1	25.7	75	30.3			
5	Cu	-	Ci	3	3	2000		bctb bc	bc	M	Var	1	1012.8	28.7	25.0	73	28.7			
6	Cu	Ac	Ci	4	6	3000		bctlpr	bc	M	ESE	3	1013.0	27.1	25.2	85	30.5			
7	Cu	Ac	Ci	4	6	2000		ctprqpr	bc	K	ESE	4	1012.6	29.2	26.2	78	31.6			
8	Cu	-	Ci	4	5	4000		c pr bc	bc	M	ESE	4	1011.8	29.0	26.0	78	31.2			
9	Sc	Ac	Ci	4	9+	2000		clqpr$_o$c	c	M	ESE	4	1011.8	27.6	25.1	81	29.9			
10	Cb	Ac	-	2	8	2000		ctlprcr	cjpr	M	SE	2	1012.1	27.9	25.0	78	29.4			
11	Cu	-	Ci	3	4	3000		bc cbbc	bc	M	ESE	3	1010.9	29.5	26.0	75	30.8			
12	Cu	-	-	2	2	3000		bc b	b	M	E	4	1011.4	29.9	26.2	73	31.1			
13	Cu	-	-	2	2	3000		bc l b	b	M	ESE	2	1010.6	29.5	26.2	76	31.4			
14	Cu	Ac	Ci	2	5	2000		bcl bc	bc	M	SE	2	1008.8	28.9	25.7	76	30.5			
15	Cu	Ac	Ci	1	6	3000		bc lcbc	bc	K	E	4	1008.1	29.8	25.8	71	30.0			
16	Cu	Ac	Ci	5	8	3500		bcclbcc	cpr$_o$	M	E	5	1009.2	28.4	26.1	83	32.0			
17	Cu	Ac	Ci	1	8	3000		clbc c	c	M	WSW	1	1009.4	27.9	25.4	81	30.5			
18	Cu	Ac	Ci	1	8	2500		cbcbbcc	c	M	ESE	2	1008.0	28.3	25.6	79	30.7			
19	Cu	Ac	Cs	2	9+	3000		cqpr$_o$ c	c	M	Calm	0	1007.8	27.2	25.1	84	30.2			
20	Sc	Ac	-	6	9+	1500		ccpr$_o$	cpr$_o$	K	ESE	4	1009.8	25.9	24.8	91	30.4			
21	Cu	Ac	Ci	3	4	3000		cbcbbc	bc	M	ESE	1	1009.3	28.7	25.1	73	29.0			
22	Sc	Ns	-	3	10	1500		ctlpr$_o$	cr$_o$r$_o$	H	SSW	2	1009.3	24.7	23.7	91	28.4			
23	Sc	Ac	Ci	3	8	3000		cprlbcc	c	M	ESE	3	1010.3	28.8	26.2	81	31.9			
24	Cu	Ac	Ci	3	8	3000		ctlprqc	c	M	E	5	1010.0	29.8	25.8	71	30.0			
25	Sc	As	Ci	1	9+	2000		ctlrrc	cpr$_o$	M	SSE	1	1009.5	25.8	24.0	85	28.4			
26	Cu	-	Ci	1	9	3000		c bc c	c	K	ESE	3	1010.1	29.0	26.6	82	32.9			
27	Cu	Ac	Ci	3	5	3000		cbcPRbc	bcjpr	K	ESE	1	1009.4	28.4	25.7	80	30.9			
28	Sc	As	Cs	6	10	3000		bccrltc	c	K	ENE	2	1010.2	25.4	24.3	91	29.7			
29	Fs	-	-	10	10	3000		cjprltr	crr	H	E	2	1008.6	25.2	24.2	92	29.4			
30	Sc	-	-	9	9	2000		cRcpr$_o$t	cpr$_o$	K	Calm	0	1009.7	26.0	24.2	86	28.8			
31	Sc	-	Cs	6	9+	6000		cprbclc	cpr$_o$	K	SSW	1	1010.9	26.1	23.4	79	26.6			
Means	-	-	-	3.8	7.1	2700		-	-	-	-	2.4	1010.5	27.9	25.3	81	30.3			

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METEOROLOGICAL OBSERVATIONS.

APIA OBSERVATORY — 3 p.m. MARCH 1942.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	At Time.	Visibility.	Wind. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°C).	Wet Bulb (°C).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed: Height Ratio.
1	Sc	Ac	Ci	5	9	2000		cpr$_o$ c	c	M	E	4	1008.1	29.7	26.7	78%	32.6			
2	Cu	Ac	-	6	6	2000		cpr$_o$	cpr$_o$	M	NE	3	1010.1	29.9	27.0	79	33.3			
3	Cu	Ac	Ci	1	6	3000		bc	bc	M	E	3	1010.4	30.1	28.0	85	36.1			
4	Cu	Ac	Ci	2	3	3000		bccprbc	bc	M	ENE	2	1010.7	29.7	25.9	73	30.4			
5	Cb	Ac	Ci	4	6	2500		bc t	bcjpr	M	E	4	1010.0	30.1	27.0	78	33.2			
6	Cb	-	Ci	4	5	3000		bcjpr t	bc	M	ESE	5	1010.0	30.5	27.3	78	33.8			
7	Cu	-	Ci	5	8	2500		bc cpr	cjpr	L	E	5	1010.4	29.5	26.9	81	33.4			
8	Cb	-	Ci	4	7	3000		t bc	bc	M	E	2	1009.5	29.1	25.9	77	30.9			
9	Cb-Fs	-	Ci	8	9	3000		c cjpr	cjpr	K	E	2	1009.1	29.1	26.0	77	31.1			
10	Cr	-	Ci	2	5	3000		cjprcbc	bc	M	E	3	1008.2	30.2	26.5	74	31.7			
11	Cu	-	Ci	3	3	3500		bc pr	bc	M	E	3	1008.6	30.3	26.1	71	30.5			
12	Cu	-	Ci	2	3	3000		b bc	bc	M	E	4	1008.1	30.3	27.0	77	33.0			
13	Cb	-	Ci	4	5	2000		bt bcjr	bc	M	E	3	1007.4	30.9	26.9	72	32.3			
14	Cu	Ac	Ci	4	4	3000		b bc	bc	K	E	5	1006.0	31.1	27.2	73	33.0			
15	Cu	Ac	-	3	3	3000		bccprbc	bc	M	E	4	1006.1	31.5	27.1	70	32.3			
16	Cb	-	Ci	5	9	3000		cpr$_o$ t	cjpr	K	E	3	1007.0	28.6	26.0	81	31.5			
17	Cu	Ac	Cs	2	9	3000		c t	c	M	E	3	1006.9	30.4	26.4	72	31.2			
18	Cb	Ac	Ci	4	8	2500		bcpr$_o$ c	cjpr	M	E	3	1005.9	29.7	25.8	72	30.1			
19	Fs	As	Ci	5	9+	3000		ct cpr$_o$	cpr$_o$	M	ESE	3	1006.4	27.5	24.7	79	28.9			
20	Cu	As	Ci	4	9	2500		cpr$_o$ c	c	M	E	4	1006.4	29.0	26.0	78	31.2			
21	Cb	Ac	Ci	6	9	2500		bc c t	cjpr	K	E	5	1006.9	29.9	26.6	76	32.2			
22	Sc	Ac	Ci	6	9+	3000		cir$_o$ c	c	K	E	4	1007.9	28.6	25.7	78	30.7			
23	Cu	Ac	Ci	3	9+	3000		cpr$_o$ c	c	M	E	4	1007.6	30.3	27.2	78	33.6			
24	Sc	Ac	Cs	5	9+	3000		ctlpr$_o$	cpr$_o$	M	ESE	2	1007.6	27.6	25.0	80	29.6			
25	Cu	As	Cs	1	9+	2500		cjpr$_o$	c	M	ESE	3	1007.3	29.1	25.9	77	30.9			
26	Cb	Ac	Ci	5	9	2000		cjpr$_o$ct	cjpr	K	E	2	1007.2	29.6	26.5	77	32.2			
27	Sc	Ac	Ci	4	7	2000		bctpr$_o$	bc	K	SE	1	1006.5	27.2	25.8	89	32.1			
28	Sc	Ac	Ci	3	9+	3000		cpr$_o$c	c	M	NNW	1	1006.1	27.2	24.7	81	29.1			
29	Cb	Ac	Ci	5	9+	3000		crrjpc	cjpr	K	WNW	1	1005.3	28.7	24.9	72	28.4			
30	Cb	Ac	Cs	5	9	3000		ctprbc	cjpr	K	SE	1	1007.4	26.9	25.0	85	30.2			
31	Sc	As	Ci	2	9+	2500		cir$_o$ c	cir$_o$	M	CALM	0	1007.9	28.0	24.3	72	27.4			
Means	-	-	-	3.9	7.2	2700		-	-	-	-	3.0	1007.8	29.4	26.2	77	31.5			

METEOROLOGICAL OBSERVATIONS.

March 1942.

Day of Month.	Thermometers.				Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
	Maximum (°C)	Minimum (°C)	Grass Minimum (°C)	Black Bulb in vacuo (°)				
1	30.4	24.2	24.4		23.2	7.1		2.6
2	30.4	25.8	23.4		3.7	8.8		1.9
3	30.6	25.0	23.5		Trace	9.2		2.1
4	30.3	24.0	22.0		1.9	10.0		2.2
5	30.8	24.0	22.4		1.6	9.5		2.2
6	30.8	24.4	23.2		1.7	7.6		2.5
7	31.3	25.7	23.8		10.8	5.6		1.8
8	30.7	24.8	22.7		Trace	7.3		2.2
9	29.4	24.7	22.7		8.4	1.5		1.6
10	30.4	24.5	-		-	9.9		2.2
11	31.1	24.2	22.4		0.5	11.3		2.6
12	30.8	24.2	22.4		-	10.7		2.6
13	31.6	24.9	23.2		-	11.0		2.5
14	31.3	24.3	22.7		-	10.6		3.0
15	31.5	24.4	22.4		Trace	10.2		2.5
16	31.3	25.3	23.6		Trace	3.9		1.7
17	30.4	24.1	22.4		-	5.6		2.2
18	31.2	24.1	22.6		0.9	7.0		2.5
19	30.0	24.2	22.4		0.1	2.8		2.0
20	29.8	24.2	22.7		Trace	2.5		2.1
21	30.7	23.8	22.1		2.8	6.8		2.2
22	29.1	24.6	23.5		1.4	1.9		1.8
23	31.2	24.2	22.6		Trace	6.5		2.6
24	30.4	24.1	22.6		11.6	4.0		0.8
25	29.9	24.4	23.4		Trace	2.4		1.8
26	31.1	23.9	22.7		20.6	7.3		0.7
27	30.9	23.7	22.2		37.8	7.8		1.2
28	28.2	24.4	23.4		4.5	1.5		1.4
29	29.2	23.7	22.7		59.5	1.9		0.6
30	29.6	23.3	22.2		21.1	4.1		0.2
31	28.3	23.7	23.0		Trace	0.0		1.3
Sum	-	-	-		212.1	44.2		59.6
Mean	30.4	24.3	22.8		-	-		1.9

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METEOROLOGICAL OBSERVATIONS.

APIA OBSERVATORY — 9 a.m. APRIL 1942.

Day of Month.	CLOUD. Form. Low.	Form. Medium.	Form. High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	Weather. At Time.	Visibility.	Wind. Direction.	Wind. Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°C).	Wet Bulb (°C).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed; Height Ratio.
1	Cb	Ac	Ci	3	9	4500		cir$_o$lcw	c	M	ESE	1	1011.6	27.6	25.0	80	29.6			
2	Cu	Ac	Cc	1	9+	3000		c w	c	M	ESE	1	1010.9	28.9	25.3	74	29.4			
3	Sc	As-Ac	-	6	9+	3000		c cr$_o$	c	M	CALM	0	1010.4	26.8	24.3	81	28.4			
4	Cu	Ac	Ci	4	7	3000		c bc	bc	M	E	3	1008.6	28.5	25.9	81	31.4			
5	Sc	As	-	8	9+	3000		cprtlbc	c	M	ESE	1	1010.1	26.8	24.3	81	28.4			
6	Fs	As	-	8	9+	500		cpr l c	cqpr	G	N	4	1011.1	25.1	24.1	92	29.2			
7	Sc	Ac	Ci	8	9+	2500		bctlprc	cjpr	M	ESE	1	1011.2	25.5	24.3	90	29.4			
8	Sc	Ac	Ci	4	5	3500		cbcbbc	bc	M	ESE	1	1011.1	28.6	25.5	77	30.2			
9	Sc	Ac	Ci	6	8	4000		cpbcbbc	c	M	E	2	1011.7	28.9	25.9	78	31.0			
10	Sc	Ac	Ci	3	7	2800		cprRcbc	bc	M	WSW	1	1013.5	27.1	25.1	84	30.3			
11	Sc	Ac	Ci	1	7	3500		bcbwbc	bc	M	E	1	1012.7	27.9	25.3	80	30.2			
12	Cu	Ac	-	1	1	3500		orrcbcb	b	M	ESE	2	1011.3	27.8	24.7	77	28.6			
13	Cu	-	Ci	3	3	3500		bcbbc	bc	M	CALM	0	1009.5	27.1	24.2	78	27.9			
14	Sc	-	Ci	2	4	3500		cbcbbc	bc	M	VAR.	1	1009.6	27.8	24.8	77	28.9			
15	Sc	Ac	-	6	8	3000		bccpr$_o$c	c	M	SE	1	1011.2	27.3	24.7	80	29.0			
16	Cu	Ac	Ci	3	8	3000		cirbcc	cjpr	M	ESE	1	1011.6	27.3	25.1	83	30.1			
17	Cb	As	Cs	2	9+	2000		cbcpr$_o$c	c	K	CALM	0	1012.3	26.6	24.5	83	29.1			
18	Cu	Ac	Ci	1	2	3500		bcpr$_o$ b	b	K	W	1	1011.1	27.8	24.0	72	26.8			
19	Cu	-	Ci	Tr.	Tr.	3500		b w	b w	M	NE	1	1009.2	27.7	23.7	70	26.1			
20	Sc	Ac	Ci	3	3	3500		b bc	bc	M	W	1	1009.8	27.7	24.3	74	27.7			
21	Sc	-	Ci	1	9	3500		cpr$_o$bcc	c	M	SW	1	1011.0	27.3	23.2	69	25.1			
22	Sc	-	-	7	7	3000		b bc	bc	M	CALM	0	1011.3	27.2	22.6	66	23.7			
23	Sc	As	-	8	9+	3000		cpbcbbc	cjpr	K	ESE	2	1010.3	26.2	24.6	87	29.7			
24	Sc	Ac	Ci	2	3	3000		c bc	bc	M	E	1	1009.1	27.9	25.0	78	29.4			
25	Sc	Ac	Ci	3	3	3000		bcbbc	bc	M	E	2	1010.0	29.0	25.9	77	30.9			
26	Cu	Ac	Ci	1	6	2000		bc b w	bc	M	ESE	4	1011.6	28.8	25.8	78	30.8			
27	Cu	Ac	Ci	2	8	3500		bcprc	c	M	E	1	1012.3	28.8	25.6	76	30.3			
28	Sc	Ac	-	2	3	3000		bc prbc	bc	M	E	5	1011.2	29.4	26.2	77	31.5			
29	Sc	Ac	Ci	7	9	2500		orrtlpr	cjpr	K	ENE	4	1011.0	28.8	26.8	85	33.7			
30	Cu	Ac	Ci	Tr.	9	2000		cpr$_o$ c	c	K	ESE	1	1011.7	27.8	25.0	79	29.4			
31																				
Means	-	-	-	3.5	6.4	3000		-	-	-	-	1.5	1010.9	27.7	24.9	79	29.3			

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APIA OBSERVATORY — METEOROLOGICAL OBSERVATIONS.

3 p.m. APRIL 1942.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	WEATHER. Since previous Observation.	At Time.	Visibility.	WIND. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	TEMPERATURE AND HUMIDITY. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	UPPER CLOUD. Type observed.	Direction whence coming.	Speed: Height Ratio.
1	Cb	Ac	Ci	3	8	3000		c	c	M	E	3	1009.0	30.6	26.6	72%	31.6			
2	Cb	Ac	Ci	4	7	3000		c	cpr$_o$	M	E	5	1008.2	30.0	26.8	77	32.7			
3	Cb	Ac	Ci	4	8	2500		c	cltjp	M	E	3	1007.5	29.6	26.3	76	31.6			
4	Sc	Ac	Cs	7	9+	4000		bccprjp	cjpr	M	E	3	1006.0	29.0	26.0	78	31.2			
5	Sc	As	-	8	9+	3000		c cjpr	cjpr	M	ENE	2	1006.7	28.8	24.9	72	28.4			
6	Cb	Ac	-	1	2	2500		cprbcb	bjpr	M	WNW	2	1007.5	27.9	25.3	80	30.2			
7	Cu	Ac	Ci	1	3	2500		cjpr c	c	M	CALM	0	1007.9	28.2	25.1	77	29.5			
8	Cu	Ac	-	8	8	1500		bcjppr$_o$	cjpr	M	S	2	1008.2	28.1	25.3	79	30.0			
9	Cu	Ac	-	9	9	1500		cjprpr$_o$	cpr$_o$	K	E	2	1008.7	27.9	25.2	79	29.9			
10	Cu	Ac	Ci	1	7	3000		c bc	bc	M	NNW	2	1009.9	28.0	25.1	78	29.5			
11	Fs	-	-	10	10	3000		cpr	c rr	E	SE	2	1010.3	25.8	24.8	92	30.5			
12	Cu	-	-	5	5	3000		b bc	bc	M	ENE	4	1007.0	29.1	25.1	71	28.7			
13	Cb	Ac	Ci	2	8	2500		cpr	c	M	SSE	1	1007.6	26.8	24.8	84	29.7			
14	Cu	-	Ci	1	2	3500		bc b	b	M	ENE	1	1008.0	29.9	25.4	68	28.8			
15	Fs	Ac	-	6	10	1500		cqltpR	cr	F	W	3	1010.9	24.9	24.2	94	29.7			
16	Cb	Ac	Ci	4	8	3000		bctpr$_o$c	cjpr	M	E	3	1008.6	29.1	27.0	84	30.0			
17	Sc	Ac	Ci	2	9	3000		cpr$_o$ c	cjpr	K	E	5	1009.0	29.1	25.0	70	28.4			
18	Cu	Ac	Ci	2	2	4000		b	b	M	ENE	3	1008.1	29.8	25.7	71	29.7			
19	Cu	Ac	Ci	1	2	3500		b	b	M	NNE	1	1007.0	29.3	24.9	69	28.0			
20	Sc		Ci	4	5	3500		b bc	bc	K	ENE	1	1007.0	29.4	25.0	69	28.1			
21	Sc	Ac	Ci	2	6	4000		cbc y	bc y	M	ENE	2	1008.5	30.1	23.0	52	22.4			
22	Cb	Ac	-	8	8	2000		bcpr$_o$ c	cjpr	M	CALM	0	1008.6	28.1	25.1	77	29.5			
23	Fs	-	-	9	9	2000		cpr	cjpr$_o$	H	SSE	2	1007.3	25.9	25.0	93	31.0			
24	Sc	-	Ci	4	5	2000		bccjpr	bc	M	E	2	1006.9	28.9	25.9	78	31.0			
25	Cu	-	-	2	2	2500		c bc b	b	M	E	2	1008.2	30.3	27.0	78	33.3			
26	Cu	-	Ci	1	7	2500		b bc	bc	M	E	5	1008.8	29.6	26.0	74	30.7			
27	Cu	-	Ci	3	6	3500		c bc	bc	M	E	4	1009.2	30.1	26.3	73	31.2			
28	Fs	As	-	6	10	1000		cprqorq	orr	H	SSE	2	1009.8	24.8	24.2	95	29.7			
29	Cu	Ac	Ci	5	9	2000		c cjpr	c	M	NE	1	1009.4	29.5	27.0	82	33.7			
30	Sc	Ac-As	Ci	5	9	2500		cpr$_o$ c	c	M	ENE	2	1008.8	28.9	26.5	82	32.7			
31																				
Means	-	-	-	4.3	6.7	2700		-	-	-	-	2.3	1008.3	28.6	25.5	77	30.1			

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METEOROLOGICAL OBSERVATIONS.

APRIL 1942.

Day of Month.	Thermometers.				Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
	Maximum (°)	Minimum (°)	Grass Minimum (°)	Black Bulb in vacuo (°)				
1	30.6	23.8	22.3		-	5.4		2.2
2	30.9	24.4	22.3		Trace	7.0		2.0
3	30.1	24.5	23.1		-	5.4		2.2
4	29.7	23.9	22.4		Trace	4.3		1.6
5	29.3	24.1	23.0		8.3	1.0		1.2
6	29.1	23.8	22.4		10.2	7.6		1.7
7	28.9	24.3	23.4		-	7.9		1.8
8	29.6	24.4	23.4		7.0	8.2		1.8
9	29.9	23.7	22.2		44.4	5.0		1.4
10	28.8	23.9	22.5		-	9.5		1.8
11	30.0	24.5	23.2		32.7	4.9		1.0
12	29.9	23.4	21.4		-	10.5		2.6
13	30.2	23.3	21.0		3.5	6.3		1.8
14	29.8	23.3	21.5		Trace	11.5		2.6
15	29.7	24.3	23.0		49.8	1.7		0.2
16	30.6	23.0	22.0		Trace	9.0		2.4
17	30.1	24.5	23.1		Trace	4.0		2.2
18	30.8	23.0	20.9		-	10.6		3.1
19	29.9	21.8	18.3		-	10.9		2.3
20	29.9	23.1	20.4		Trace	9.3		2.5
21	30.3	22.5	19.5		-	10.7		3.2
22	29.3	21.6	17.7		Trace	7.4		1.4
23	28.4	24.1	22.4		4.6	1.7		1.4
24	29.6	23.8	22.5		-	8.4		2.0
25	30.3	23.3	21.3		18.0	8.5		1.5
26	30.0	23.7	21.9		0.6	11.1		2.5
27	30.8	24.1	22.1		2.3	9.0		2.1
28	30.5	24.7	23.0		29.4	4.0		0.2
29	30.3	24.2	24.8		Trace	6.3		1.9
30	29.9	25.1	23.9		Trace	3.4		1.8
31								
Sum	-	-	-		21.1	210.5		56.4
Mean	29.9	23.7	22.0		-	7.0		1.9

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METEOROLOGICAL OBSERVATIONS.

9 a.m. MAY 1942.

Day of Month.	Cloud. Form. Low.	Form. Medium.	Form. High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	Weather. At Time.	Visibility.	Wind. Direction.	Wind. Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars)	Upper Cloud. Type observed.	Direction whence coming.	Speed: Height Ratio.
1	Cu	Ac	Ci	Tr.	9+	3500		cbc w c	c	M	CALM	0	1011.1	28.4	25.7	80%	30.9			
2	Cu	Ac	-	1	1	3500		cbc b w	b w	M	CALM	0	1011.1	28.8	25.7	77	30.5			
3	Sc	Ac	Ci	5	9	3000		c	cpr.	M	ESE	3	1010.8	27.4	25.1	82	30.0			
4	Fs	Ns	-	4	10	1000		bccpLTc	oRRt	E	SE	4	1012.6	23.9	23.2	94	27.9			
5	Sc	Ac	Cs	3	9+	4000		cprcrrc	c	M	WSW	1	1010.8	25.8	23.8	84	27.9			
6	Sc	Ac	Ci	8	9	2500		c cpr	cj/pr	M	SSE	1	1011.6	26.7	25.5	90	31.7			
7	Cb	Ac	Ci	4	7	3000		cprlcbc	bc	M	ESE	1	1012.1	27.8	25.4	82	30.5			
8	Sc	Ac	Cs	2	9+	2500		cprltc	c	M	SE	2	1012.4	26.3	24.0	82	28.0			
9	Cu	Ac	Ci	1	7	2500		cplcbcc	bc	M	CALM	0	1012.6	26.3	24.6	86	29.6			
10	Cu	Ac	Ci	2	4	3000		bcbbc	bc	M	E	3	1011.8	28.9	25.4	74	29.7			
11	Sc	Ac	Ci	7	9	3000		bcbbccp	cpr.	M	E	5	1013.0	27.0	25.6	89	31.7			
12	Cu	Ac	Ci	3	9	3000		bccqprc	c	M	ESE	2	1012.5	28.3	25.3	77	29.9			
13	Cu	Ac	Cs	3	9+	3500		cbclbcc	c	M	ESE	3	1011.1	28.3	24.9	75	28.8			
14	Cu	-	Ci	1	1	3500		bccpbcb	b	K	ESE	4	1010.1	28.2	24.4	72	27.5			
15	Cu	-	Ci	1	2	3500		b w	b	M	CALM	0	1011.8	27.7	24.8	78	29.0			
16	Cu	Ac	Ci	3	5	3000		blbc	bc	M	E	4	1012.7	28.8	25.8	78	30.8			
17	Cu	Ac	Ci	3	5	3000		bbcpr.	bcjpr	K	ESE	4	1010.4	29.0	25.9	77	30.9			
18	Cu	Ac	Ci	2	7	3000		bcbbcpr	bc	M	CALM	0	1009.4	27.4	24.6	79	28.7			
19	Sc	Ac	Ci	3	4	3000		bc cbc	bc	M	CALM	0	1009.4	27.5	24.0	74	27.0			
20	Cu	Ac	Ci	1	7	4500		b w bc	bc	M	ENE	1	1010.7	26.6	23.3	75	26.2			
21	Cu	Ac	Ci	1	6	4500		blwbc	bc	M	CALM	0	1012.2	26.5	22.6	70	24.3			
22	Sc	Ac	Ci	2	3	3000		bwbcjpr	bcjpr	M	CALM	0	1011.4	26.4	23.6	78	26.9			
23	Cu	Ac	Ci	3	9+	2500		cbcbbcc	c	M	ESE	1	1010.2	27.2	24.7	81	29.1			
24	Cu	Ac	Ci	2	2	3500		cbc b	b	M	CALM	0	1010.8	28.0	24.6	75	28.2			
25	Cu	Ac	Ci	1	8	2500		bc c	c	M	CALM	0	1012.5	27.3	24.2	76	27.7			
26	Sc	Ac	Ci	5	6	2500		lbcjpr	bc	M	NE	1	1012.7	28.9	25.0	72	28.5			
27	Sc	Ac	Ci	3	8	3000		cbccjpc	c/pr.	M	SE	2	1012.1	26.8	24.8	84	29.7			
28	Sc	-	Ci	4	8	2500		bccprlc	cjpr	K	ESE	2	1010.0	28.1	25.3	79	30.0			
29	Cu	-	-	2	2	3500		c bc b	b	M	ESE	3	1008.6	28.7	25.8	80	31.1			
30	Cu	Ac	Ci	6	7	1500		bbclprc	cjpr	K	ENE	3	1008.9	29.2	27.7	81	33.0			
31	Cu	-	-	1	1	2500		cprbcb	b	M	S	1	1010.5	28.1	24.8	75	28.7			
Means	-	-	-	2.8	6.2	3000		-	-	-	-	1.6	1011.2	27.5	24.8	79	29.2			

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METEOROLOGICAL OBSERVATIONS. 3 p.m. MAY 1942.

Day of Month.	CLOUD. Form. Low.	Form. Medium.	Form. High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	Weather. At Time.	Visibility.	Wind. Direction.	Wind. Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed : Height Ratio.
1	Sc	Ac	Ci	2	7	2500		c	c	M	NW	1	1007.4	29.1	26.0	77%	31.1			
2	Cu	Ac	-	5	7	2000		b bc c	bc	K	NNE	1	1009.3	29.7	26.0	73	30.7			
3	Cu	-	Ci	3	7	2500		cpr$_o$ bc	bc	M	E	2	1008.6	30.5	27.0	75	32.9			
4	Sc	As	Ci	3	9+	3000		oRRtlc	cjpr	M	ESE	3	1008.3	28.0	25.2	79	29.8			
5	Cu	Ac	Ci	2	7	3500		c bc	c	M	E	3	1008.3	29.1	25.6	74	30.0			
6	Fs	As	-	8	10	2000		cprc	cPR	K	ENE	1	1009.5	26.2	24.9	90	30.5			
7	Cu	Ac	Ci	5	8	3000		bcjpr$_o$c	c	M	ENE	1	1009.4	29.0	26.0	78	31.2			
8	Cu	Ac	Ci	6	8	2000		c pr	cjpr	M	SE	2	1010.0	27.5	25.6	85	31.3			
9	Sc	Ac	Ci-Cs	6	9+	2000		bc cjp	cjpr	M	ENE	3	1008.0	28.6	25.3	76	29.6			
10	Cu	Ac	Ci	1	7	3000		c bc	bc	M	E	3	1009.5	30.2	26.2	72	30.8			
11	Cu	Ac	Ci	3	6	3500		cjpr$_o$bc	bc	M	E	6	1009.3	29.8	26.2	74	31.1			
12	Cu	Ac	Ci	3	8	3500		c	c	M	ESE	5	1009.3	29.0	26.1	79	31.5			
13	Fs	Ac	Ci	5	8	2000		cjpr	cpr$_o$	K	E	6	1007.8	28.8	25.9	78	31.1			
14	Cu	Ac	-	2	2	3000		b	b	K	E	5	1008.3	29.8	25.9	72	30.3			
15	Cu	-	Ci	1	2	3500		b	b	M	ENE	5	1009.6	29.8	25.9	72	30.3			
16	Cb	-	Ci	2	3	2500		bc b	bc	M	E	4	1010.4	29.9	26.8	78	32.8			
17	Cu	Ac	Ci	1	7	2000		bc	bc	K	E	5	1007.6	29.7	25.9	73	30.4			
18	Cu	-	Ci	4	7	3000		bc c	bc	M	E	4	1005.0	29.0	25.8	76	30.7			
19	Sc	Ac	Ci	4	4	3000		bbc	bc	M	NNE	1	1007.2	28.7	24.3	68	26.9			
20	Cu	Ac	Ci	2	5	4000		bc	bc	M	N	1	1008.7	28.9	23.9	64	25.7			
21	Cu	-	Ci	1	3	3000		b	bc	M	E	2	1008.8	29.2	24.4	66	26.7			
22	Sc	Ac	Ci	5	8	2500		bc	c	M	NE	2	1008.4	29.2	25.0	72	28.3			
23	Cu	Ac	Ci	1	9	3500		c	c	M	NE	1	1007.4	29.0	25.0	71	28.5			
24	Cu	Ac	Ci	5	6	2500		bt bc	bc	M	E	3	1008.0	29.5	25.5	71	29.4			
25	Cu	-	Ci	2	4	3000		c bc	bc	M	E	2	1009.5	30.2	25.9	70	30.0			
26	Sc	-	-	8	8	3000		bc	c	M	E	4	1009.2	30.8	25.6	65	28.7			
27	Cu	Ac	Ci	2	5	3500		c bc c	bc	M	E	5	1008.4	30.0	26.0	72	30.4			
28	Cu	Ac	-	4	4	2500		cbcprbc	bc	M	E	5	1007.1	30.3	26.9	76	32.7			
29	Cu	-	-	3	3	3500		b	b	M	E	3	1005.8	30.8	26.5	70	31.4			
30	Cu	Ac	-	9	9	2500		bc cpr	cpr	M	N	3	1006.8	29.4	26.5	79	32.3			
31	Cu	-	-	9	9+	2500		bbcpr	cpr	M	CALM	0	1008.6	29.1	25.6	74	30.0			
Means	-	-	-	3.8	6.4	2800		-	-	-	-	3.0	1008.4	29.3	25.7	74	30.2			

METEOROLOGICAL OBSERVATIONS.

MAY 1942.

Day of Month.	Thermometers. Maximum (°)	Minimum (°)	Grass Minimum (°)	Black Bulb in vacuo (°)	Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
1	29.7	24.6	23.2		-	10.2		2.2
2	30.2	24.4	22.9		-	10.2		2.2
3	30.8	25.0	23.4		64.0	8.0		1.8
4	28.3	23.9	23.9		10.4	0.3		1.1
5	29.8	23.3	22.5		0.8	5.9		2.2
6	30.3	25.4	24.3		17.0	2.8		1.2
7	30.3	24.2	22.8		2.4	7.3		1.5
8	29.8	24.2	23.0		10.8	4.0		1.6
9	30.1	23.9	22.4		-	5.0		1.8
10	30.6	23.9	22.4		1.1	10.8		2.3
11	29.9	24.1	22.6		8.5	7.3		1.9
12	30.3	24.3	22.7		-	7.3		2.5
13	30.1	24.4	22.5		Trace	6.8		2.6
14	29.8	23.9	22.0		-	11.0		2.7
15	30.1	23.3	21.9		-	10.9		2.6
16	30.5	23.9	22.4		Trace	9.0		2.2
17	30.2	23.5	-		0.7	7.0		2.5
18	30.2	23.3	22.0		-	8.3		2.3
19	29.3	23.0	21.1		-	10.8		2.6
20	29.1	21.6	20.2		-	9.9		2.6
21	29.6	21.3	19.4		-	11.1		2.5
22	29.9	23.0	21.4		-	10.2		2.6
23	29.4	23.0	21.6		-	6.1		2.2
24	30.6	23.3	21.6		-	11.0		2.6
25	30.9	23.4	21.6		-	11.1		2.6
26	31.8	24.6	22.2		-	9.3		2.5
27	31.0	24.6	22.7		Trace	7.6		2.4
28	31.1	24.4	22.8		-	9.4		2.7
29	30.4	24.1	23.3		0.6	10.4		2.6
30	30.2	26.0	24.5		0.3	8.6		2.1
31	29.9	24.4	22.9		Trace	8.2		2.2
Sum	-	-	-		116.6	255.8		69.4
Mean	30.1	23.9	22.4		-	8.3		2.2

1,000/7/32—3911] APIA OBSERVATORY

METEOROLOGICAL OBSERVATIONS. 9 a.m. JUNE 1942.

Day of Month.	CLOUD. Form. Low.	Form. Medium.	Form. High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	Weather. At Time.	Visibility.	Wind. Direction.	Wind. Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°C).	Wet Bulb (°C).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed : Height Ratio.
1	Cu	-	Ci	Tr.	1	2500		cpr$_o$bcb	b	M	S	1	1012.0	28.7	25.0	73%	28.7			
2	Cu	-	Ci	3	5	2500		cbcbbc	bc	M	E	4	1012.8	29.7	25.7	71	29.8			
3	Cu	-	Ci	3	9+	2500		cpr$_o$ lc	c	M	SSE	1	1013.6	27.3	25.6	87	31.5			
4	Fs	As	Ci	4	9	3000		c	cpr$_o$	M	E	4	1015.1	29.1	26.1	78	31.4			
5	Cu	Ac	Ci	2	3	3000		bbcpr$_o$	bcpr$_o$	M	ESE	4	1014.8	28.1	25.1	77	29.5			
6	Cu	-	Ci	2	2	3000		bbc l b	b	M	ESE	3	1013.8	27.7	23.8	71	26.4			
7	Cu	-	Ci	1	2	3000		b	b	M	E	4	1013.3	28.6	24.0	67	26.1			
8	Cu	Ac	Ci	3	8	2500		bcpr$_o$lc	c	K	E	4	1014.9	28.2	25.3	77	29.8			
9	Cu	Ac	Ci	2	6	3000		c bc	bc	M	E	5	1014.4	28.1	24.6	74	28.1			
10	Fs	Ns	-	4	10	1000		bccqprR	oR/lt	G	ENE	5	1016.2	25.4	24.8	95	30.9			
11	Sc	As-Ac	Cs	3	9+	2500		cbcprlc	c	K	SE	3	1013.6	27.6	25.7	85	31.5			
12	Cu	-	-	2	2	3000		cq prbc	b	M	ENE	3	1012.0	28.9	25.0	72	28.5			
13	Cu	-	Ci	2	4	2500		cprqbc	bc	M	SE	1	1012.1	28.2	25.4	79	30.2			
14	Cu	-	Ci	1	8	2500		bcpr$_o$ c	c	K	SE	2	1012.9	28.1	25.0	77	29.2			
15	Cu	-	Ci	Tr.	2	4000		bc b	b	M	S	1	1012.4	26.7	23.2	73	25.6			
16	Cu	-	Ci	1	5	2500		bcbbc	bc	M	CALM	0	1012.2	26.9	23.8	76	27.0			
17	Sc	Ac	Ci	6	9	3000		bbccpr$_o$	cjpr	M	CALM	0	1011.5	26.1	24.1	84	28.4			
18	Fs	Ac	-	8	9+	2000		bbcqcpr	cjr	M	WSW	1	1011.3	25.7	24.3	89	29.3			
19	Fs	Ns	-	Tr.	10	3000		cqproqR	orr	H	ESE	2	1011.4	23.4	22.8	95	27.3			
20	Sc	Ac	-	8	9	2500		orrcor$_o$	cjr	K	ESE	4	1009.4	27.8	24.0	78	27.8			
21	Sc	Ac	Ci	3	3	3000		c bc	bc	K	ESE	5	1009.2	28.1	25.5	80	30.6			
22	Cu	-	-	1	1	3000		bcpr$_o$b	b	K	ESE	2	1010.9	28.2	25.2	77	29.7			
23	Cu	Ac	Ci	5	6	3000		bc b bc	bc	M	SSW	1	1010.6	25.1	23.7	88	28.2			
24	Cu	-	Ci	1	4	4500		b w bc	bc	M	CALM	0	1009.7	27.1	24.7	81	29.2			
25	Cu	Ac	Ci	1	9	3000		cjprpr$_o$	c	M	SSW	1	1009.9	27.0	24.5	81	28.9			
26	Sc	As-Ac	-	8	9	2500		clprcR	cjr	M	ESE	1	1011.2	26.2	24.4	86	29.1			
27	Sc	Ac	-	2	3	3000		cjpr l	bc	M	SE	1	1011.4	27.8	24.4	75	27.8			
28	Sc	Ac	Ci	2	6	3000		bc	bc	M	SE	1	1011.7	27.2	24.1	76	27.5			
29	Sc	-	-	2	2	2500		c bc	b	M	SE	2	1011.7	26.7	23.6	76	26.7			
30	Cu	-	Ci	1	3	2500		cbcbbc	bc	M	NW	1	1013.1	26.1	22.2	70	23.6			
31																				
Means	-	-	-	2.7	5.6	2800		-	-	-	-	2.2	1012.3	27.3	24.5	79	28.6			

1,000/7/32—3911] APIA OBSERVATORY

METEOROLOGICAL OBSERVATIONS. 3 p.m. JUNE 1942.

Day of Month.	Cloud. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	At Time.	Visibility.	Wind. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°C).	Wet Bulb (°C).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed : Height Ratio.
1	Cu	-	Ci	3	8	3000		b bc	cjpr	M	E	3	1010.8	30.6	26.4	71%	31.1			
2	Fs	-	Ci	9	9+	2000		bc cjpr	cjpr	M	NE	5	1010.3	29.0	24.7	69	27.7			
3	Fs	Ac	Ci	5	9+	2000		c cjpr	c	M	E	3	1011.0	29.2	26.0	77	31.1			
4	Cu	-	Ci	3	4	3000		cpr$_o$cbc	bc	M	E	3	1012.6	30.2	26.3	72	31.1			
5	Cu	-	Ci	2	4	3500		bcpr$_o$bc	bc	M	E	5	1011.6	30.2	26.6	74	32.0			
6	Cu	-	-	1	1	3000		b	b	M	E	6	1010.6	29.9	25.0	66	27.7			
7	Cu	-	Ci	1	2	4000		b	b	K	ENE	6	1010.4	29.4	24.6	66	27.1			
8	Cu	-	Ci	2	6	3500		c	c	K	E	4	1012.5	30.0	25.2	66	28.2			
9	Cu	-	Ci	3	8	3500		bc	c	M	E	5	1012.1	29.8	25.0	66	27.8			
10	Sc	Ns	-	6	9	3000		cRq pr	cpr	K	E	6	1011.9	29.1	26.0	77	31.1			
11	Cu	As	Ci	4	9	2500		cq pr	cjpr	K	E	6	1010.3	27.7	23.0	79	29.5			
12	Cu	-	Ci	2	3	2500		bcpr$_o$	bc	K	ENE	3	1008.7	30.1	26.0	71	30.3			
13	Cu	-	Ci	1	3	3000		bc	bc	K	ENE	2	1010.5	29.6	26.1	75	31.0			
14	Cu	Ac	Ci	1	8	3000		c	c	M	ENE	2	1009.6	29.4	25.3	71	29.0			
15	Cu	Ac	Ci	5	7	3500		b bc	bc	M	ENE	1	1009.3	30.2	25.0	64	27.5			
16	Cu	Ac	Ci	3	4	2500		bc c	bcjpr	M	E	4	1009.4	29.4	26.2	77	31.5			
17	Cb	Ac	Ci	5	7	2000		cpr c	cjpr$_o$	K	E	4	1008.6	29.2	25.8	75	30.5			
18	Cb	Ac	Ci	2	7	2000		bcqcpr$_o$	bc	K	E	6	1008.0	29.2	26.0	76	31.1			
19	Fs	Ns	-	3	10	1500		oq rr	or	F	ESE	5	1009.8	23.8	23.1	94	27.7			
20	Fs-Fc	Ns	Ci	5	9+	3000		c t r	cr$_o$	K	ESE	1	1007.5	25.6	24.0	87	28.6			
21	Cu	Ac	-	4	6	2500		c bc	bc	K	E	4	1006.6	29.3	26.2	78	31.5			
22	Cu	-	Ci	2	4	2500		b bc	bc	K	E	3	1007.7	29.9	26.1	73	30.8			
23	Sc	-	Ci	6	7	2500		bcpr$_o$bc	bcjpr	M	E	4	1007.0	29.2	26.4	79	32.2			
24	Cu	-	Ci	3	8	2500		bc c	c	M	ENE	3	1007.4	29.0	26.2	79	31.8			
25	Cu	Ac	Ci	2	8	2500		c	c	M	NE	2	1007.5	28.3	25.1	80	29.7			
26	Sc	Ac	Ci	7	9+	2000		cjprpr$_o$	cjpr	M	NE	1	1008.7	27.0	25.0	84	30.1			
27	Cb	-	-	2	2	3000		b bc	b	M	NNE	1	1009.0	28.7	25.3	75	29.5			
28	Sc	Ac	-	8	8	3500		bc c bc	c	K	ESE	1	1009.3	28.9	24.4	68	27.0			
29	Sc	Ac	-	9	9	2500		bc bc	c/jpr	M	WNW	3	1010.0	26.0	24.0	84	28.3			
30	Sc	Ac	-	5	6	4000		bc c	bc	M	E	2	1011.6	27.9	22.2	59	22.2			
31																				
Means	-	-	-	3.8	6.5	2800		-	-	-	-	3.4	1009.7	28.9	25.3	74	29.5			

METEOROLOGICAL OBSERVATIONS.

JUNE 1942.

Day of Month.	Thermometers.				Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
	Maximum (°C)	Minimum (°C)	Grass Minimum (°C)	Black. Bulb in vacuo (°)				
1	30.8	24.0	22.7		-	10.1		2.5
2	31.1	24.0	22.9		3.7	5.0		1.9
3	30.9	25.3	24.0		-	1.9		2.2
4	31.0	24.9	23.6		Trace	10.6		2.5
5	30.9	23.4	21.7		Trace	10.2		2.5
6	30.8	23.3	21.4		-	10.6		3.7
7	30.0	23.6	20.9		Trace	10.6		3.8
8	30.6	25.3	23.6		-	8.2		3.1
9	30.7	24.2	22.9		23.4	10.4		3.6
10	29.6	25.0	24.1		8.5	1.2		1.7
11	30.2	24.6	23.8		1.6	3.8		3.4
12	30.5	26.0	24.7		1.3	9.8		3.0
13	29.9	26.0	24.7		Trace	9.8		2.3
14	30.0	24.2	23.4		-	10.1		2.7
15	30.5	24.4	23.6		-	10.2		2.6
16	29.9	22.8	20.9		Trace	9.5		2.3
17	30.2	23.6	21.9		1.6	6.4		2.2
18	29.9	24.3	23.2		42.8	4.7		1.0
19	27.8	23.4	22.8		25.4	0.0		1.5
20	28.3	23.2	24.2		3.9	1.1		1.7
21	29.7	24.8	23.8		0.5	9.5		2.3
22	29.9	25.2	23.8		-	10.6		1.9
23	30.0	23.5	22.0		-	7.7		1.8
24	29.8	23.8	22.4		Trace	8.0		1.8
25	29.1	23.8	22.2		35.0	7.0		1.6
26	28.4	24.1	23.5		Trace	2.8		1.4
27	29.0	23.8	22.6		-	11.0		2.2
28	29.8	23.7	22.4		-	7.3		3.1
29	29.4	24.0	21.5		Trace	5.0		2.3
30	28.7	21.7	19.5		-	7.5		2.7
31								
Sum	-	-	-		147.7	220.6		71.2
Mean	29.9	24.1	22.8		-	7.4		2.4

1,000/7/32—3911] APIA OBSERVATORY

METEOROLOGICAL OBSERVATIONS. 9 a.m. JULY 1942.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	WEATHER. Since previous Observation.	At Time.	Visibility.	WIND. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	TEMPERATURE AND HUMIDITY. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	UPPER CLOUD. Type observed.	Direction whence coming.	Speed : Height Ratio.
1	Cu	-	Ci	1	9	2500		cbcbbcc	c	M	S	1	1013.4	26.2	22.9	74%	25.3			
2	Sc	-	-	9	9+	2500		c cjpr	cjpr	M	ESE	1	1013.8	26.0	24.1	85	28.5			
3	Cu	Ac	-	4	4	3000		cjprcbc	bcjpr	M	E	1	1012.5	25.2	22.5	78	25.1			
4	Sc	-	-	9+	9+	2500		cjprpr$_o$	cpr$_o$	K	SW	1	1012.3	25.7	22.2	73	24.0			
5	Cu	-	-	2	2	3000		cbc bw	by	M	CALM	0	1012.7	26.6	21.0	58	20.4			
6	Cu	-	-	1	1	3000		bc b	b	M	CALM	0	1012.5	25.2	22.1	75	24.1			
7	Cu	-	-	1	1	3000		bcjprbw	b	M	SE	1	1011.3	25.7	22.7	76	25.2			
8	Cu	-	Ci	Tr.	8	3000		bc b bc	c	M	S	1	1010.9	24.7	21.2	72	22.4			
9	Sc	Ac	Ci	Tr.	9+	3000		bc c	c	M	CALM	0	1011.7	24.6	21.3	73	22.7			
10	Cu	Ac	Ci	1	1	3500		b bc	b	M	ESE	2	1012.1	26.1	22.2	70	23.6			
11	Sc	-	-	9+	9+	2000		bbccjpr	cpr$_o$	J	ESE	3	1013.0	24.9	23.5	88	27.9			
12	Sc	As	Ci	5	9	2500		bcbbccp	cpr	M	ESE	4	1012.2	25.6	22.6	76	25.0			
13	Sc	Ac	Cs	5	9+	2500		c q prc	c	K	ESE	4	1013.3	26.3	23.7	79	27.2			
14	Cu	Ac	Cs	3	9+	3000		cqprcir	c	K	ESE	4	1013.4	26.6	22.7	70	24.5			
15	Sc	Ac	Ci	3	9	5000		cjprbcc	c	K	SSE	1	1012.6	25.4	23.0	81	26.2			
16	Cu	-	-	7	7	2500		bcbbcpr	bc	M	SE	3	1011.5	27.8	24.5	75	28.1			
17	Cu	Ac	Ci	5	7	2500		bcblbcp	bc	M	E	6	1011.7	27.3	25.0	82	29.8			
18	Sc	As	-	9	10	2000		c q pr	cpr$_o$	K	NNE	3	1011.3	27.3	25.3	85	30.7			
19	Cu	Ac	Ci	1	4	3000		orlcpbc	bc	M	ESE	3	1012.0	26.3	24.2	83	28.5			
20	Cu	Ac	-	3	3	2500		b	bc	M	SW	1	1011.9	26.2	23.7	80	27.3			
21	Cu	-	-	2	2	2500		cpoirbc	b	K	ESE	4	1012.6	26.9	23.0	70	25.0			
22	Cu	Ac	Ci	1	5	3000		bc	bc	M	ESE	3	1013.6	26.0	21.0	63	21.1			
23	Sc	-	Ci	6	8	3000		bccpr$_o$c	c	K	ESE	4	1013.8	26.0	22.5	73	24.5			
24	Sc	Ac	-	6	7	2500		bccoprq	bcjpr	K	E	5	1012.3	27.5	24.6	78	28.6			
25	Fs	Ns	-	6	10	1000		cpr l	c RR	J	WSW	2	1012.4	24.3	23.5	93	28.3			
26	Sc	Ac	Ci	5	7	3000		crrprbc	bc	K	E	3	1013.6	27.5	24.8	79	29.1			
27	Sc	-	Ci	1	4	3000		c bc	bc	M	SE	2	1014.4	26.2	22.7	73	24.8			
28	Sc	Ac	-	7	8	2500		bccprir	cjpr	K	ESE	5	1013.0	26.8	24.3	81	28.4			
29	Sc	-	-	4	4	3000		cpr$_o$ bc	bc	M	ESE	1	1012.7	27.3	24.6	79	28.8			
30	Sc	-	-	4	4	2500		cpr$_o$ bc	bc	M	E	3	1012.2	27.7	24.2	74	27.4			
31	Sc	Ac	Ci	2	2	3000		bc b	b	M	E	3	1013.3	26.8	23.1	72	25.3			
Means	-	-	-	3.9	6.1	2800		-	-	-	-	2.4	1012.6	26.2	23.2	76	26.1			

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METEOROLOGICAL OBSERVATIONS.

APIA OBSERVATORY — 3 p.m. JULY 1942.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	At Time.	Visibility.	Wind. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed; Height Ratio.
1	Sc	Ac	Ci	4	8	3500		c	c	M	E	4	1011.4	28.1	24.3	72%	27.3			
2	Cu	Ac	Ci	3	5	3000		cpr$_o$ bc	bcjpr	M	ENE	2	1010.5	28.7	25.7	78	30.6			
3	Sc	Ac	-	7	8	2000		bc cjpr	cjpr	M	SW	1	1009.5	27.8	24.1	72	27.1			
4	Sc	Ac-As	-	8	9+	2500		cpir$_o$c	cir$_o$	M	S	1	1009.9	26.3	22.2	69	23.5			
5	Sc	Ac	-	3	3	3000		b bc y	bc y	M	S	4	1010.1	27.7	21.6	56	20.9			
6	Sc	Ac	-	5	6	2500		b bcpr	bcjpr	M	N	1	1009.3	26.6	22.1	66	23.0			
7	Sc	-	Ci	1	1	4000		b	b	M	E	3	1007.9	28.1	23.2	65	24.5			
8	Cu	Ac	Ci	3	6	3000		bc	bc	M	NNW	1	1008.9	27.8	22.8	64	23.7			
9	Cu	Ac	Ci	2	4	3500		cbcbcy	bc	M	E	2	1009.1	28.8	23.2	60	23.9			
10	Cu	-	-	2	2	3500		b	b	M	E	4	1010.0	28.8	24.1	66	26.3			
11	Sc	Ac	Ci	7	9+	3000		b cjprc	cjpr	M	E	5	1009.6	27.9	25.2	79	29.9			
12	Fc	Ac	Ci	2	8	3000		cpr c	c	M	E	5	1010.3	28.6	23.5	63	24.9			
13	Sc	-	Ci	5	7	2500		cqpr	cjpr	K	E	6	1010.3	28.7	25.1	73	29.0			
14	Sc	Ac	Ci	6	9	3000		c cjpr	cjpr	H	ESE	6	1011.5	27.8	23.0	65	24.2			
15	Sc	Ac	Ci	4	7	3500		c	bc	K	ENE	6	1009.8	28.8	25.2	74	29.2			
16	Cu	Ac	-	2	3	3000		bc	bc	K	ENE	2	1009.5	29.2	24.9	69	28.0			
17	Sc	As	-	4	10	3500		bc c	c	K	E	5	1010.1	28.8	24.1	66	26.3			
18	Fs	Ns	-	2	10	500		orrtl	orr	G	S	1	1010.7	23.7	23.2	96	28.1			
19	Cu	Ac	Ci	1	2	2500		bc	b	M	E	2	1009.4	28.9	25.3	74	29.4			
20	Fs	Ac	-	9	9+	1500		bc prc	cpr	K	S	3	1008.7	25.7	23.5	82	27.2			
21	Sc	-	-	3	3	2500		bc	bc	K	E	4	1009.8	27.9	23.1	65	24.4			
22	Cu	-	Ci	1	4	4000		bc	bc	K	E	6	1011.3	27.7	22.2	60	22.3			
23	Cu	Ac	Ci	3	4	3000		cpr$_o$ bc	bc	K	ESE	5	1010.1	28.0	24.2	72	27.1			
24	Sc	Ac	Ci	6	7	3000		bcqpr$_o$	c	K	E	4	1009.0	28.8	25.3	74	29.5			
25	Fs	As	-	6	10	2000		cRR oir	cr$_o$r$_o$	J	CALM	0	1009.9	25.0	23.8	90	28.5			
26	Cu	-	Ci	3	10	3000		bc	c	K	E	4	1011.4	28.8	24.9	72	28.4			
27	Cu	-	Ci	Tr.	2	3500		bc b	b	K	ENE	4	1011.1	28.5	24.9	73	28.6			
28	Cu	Ac	-	2	2	3000		bc b	b	K	ENE	3	1010.7	28.4	24.4	71	27.4			
29	Cu	-	-	4	4	3500		bc b	bc	M	ENE	1	1010.5	29.0	25.8	76	30.7			
30	Cu	Ac	Ci	3	4	3000		bc	bc	K	E	3	1010.6	29.0	25.1	72	28.7			
31	Sc	-	-	2	2	3000		b	b	K	E	2	1010.7	29.3	25.0	69	28.2			
Means	-	-	-	3.6	5.7	2900		-	-	-	-	3.2	1010.1	28.0	24.0	71	26.8			

METEOROLOGICAL OBSERVATIONS.

JULY 1942.

Day of Month.	Thermometers.				Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
	Maximum (°C)	Minimum (°C)	Grass Minimum (°C)	Black Bulb in vacuo (°C)				
1	29.1	22.0	20.4		-	7.8		2.6
2	28.7	22.9	21.4		Tr.	4.3		1.8
3	29.2	21.8	20.4		Tr.	6.7		2.2
4	28.3	22.9	21.6		Tr.	3.1		3.1
5	28.7	23.4	19.7		-	10.7		3.5
6	28.2	20.1	17.6		Tr.	9.5		3.0
7	28.8	21.1	19.2		-	10.8		3.4
8	28.2	20.8	19.2		-	10.4		3.1
9	29.2	20.9	19.0		-	9.6		2.7
10	29.1	21.1	18.9		Tr.	10.7		2.9
11	28.8	22.1	20.0		0.3	5.6		2.0
12	29.4	22.8	21.3		4.6	7.5		3.8
13	29.1	23.4	22.3		22.4	7.1		2.6
14	28.5	23.4	22.4		-	6.5		2.9
15	29.5	24.7	23.2		1.2	6.3		2.6
16	29.9	23.5	22.1		Tr.	9.9		2.9
17	28.3	23.3	20.9		1.2	2.4		2.9
18	28.0	25.0	24.3		41.9	0.1		0.5
19	28.9	22.3	21.2		-	10.8		2.0
20	28.9	22.6	21.1		20.8	4.4		1.4
21	28.6	23.6	21.4		-	10.9		3.8
22	28.0	22.1	20.4		Tr.	9.2		4.8
23	28.2	23.7	21.8		1.7	5.6		-
24	28.8	24.9	23.9		6.1	7.4		2.3
25	27.7	23.7	22.6		56.0	0.0		0.6
26	29.1	23.5	22.0		-	9.2		2.4
27	28.9	22.2	20.9		6.8	10.6		2.8
28	29.0	22.9	21.8		Tr.	7.2		2.4
29	29.3	24.1	22.6		Tr.	7.2		2.4
30	29.3	25.1	22.7		-	9.7		3.0
31	29.7	23.1	20.9		0.3	10.4		2.3
Sum	-	-	-		163.3	232.0		78.7
Mean	28.8	22.9	21.0		-	7.5		2.5

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APIA OBSERVATORY — METEOROLOGICAL OBSERVATIONS. — 9 a.m. AUGUST 1942.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	WEATHER. Since previous Observation.	At Time.	Visibility.	WIND. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	TEMPERATURE AND HUMIDITY. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	UPPER CLOUD. Type observed.	Direction whence coming.	Speed : Height Ratio.
1	Sc	Ac	-	3	5	3000		bccprbc	bc	K	ESE	3	1013.9	27.7	24.8	78%	29.0			
2	Cu	-	-	1	1	3000		bccbcb	b	K	E	3	1013.7	27.4	23.1	68	24.8			
3	Sc	As	-	7	8	3500		b bc	cjpr	K	ESE	4	1013.3	27.3	24.1	76	27.5			
4	Sc	Ac	-	2	9	3500		crrlcpr	c	K	ESE	3	1014.9	27.2	23.8	74	26.8			
5	Cu	-	-	2	2	3000		b	b	K	ESE	4	1015.2	28.1	24.0	70	26.5			
6	Cu	-	-	7	7	3500		bpr$_o$bcq	bcpr$_o$	K	ESE	6	1014.4	26.5	23.7	78	27.1			
7	Cu	-	-	1	1	3000		b	b	K	ESE	4	1012.8	27.2	23.1	69	25.0			
8	Cu	-	Ci	1	1	3000		b	b	K	ESE	3	1012.7	27.0	23.2	71	25.4			
9	Sc	As	-	8	9	3000		cpr bcb	cjpr	K	E	1	1012.9	27.9	23.5	68	25.4			
10	Sc	Ac	-	3	3	3000		bc c	bc	M	ESE	4	1012.9	27.0	22.9	69	24.6			
11	Sc	Ac	Ci	5	6	3000		cqpr$_o$bc	bcjpr	K	ESE	5	1012.7	26.8	23.1	72	25.3			
12	Sc	Ac	Ci	5	8	3000		bc cprc	cjpr	K	ESE	4	1014.2	26.8	23.3	73	25.8			
13	Sc	Ac	-	3	4	3000		cbclpr	bc	K	E	6	1012.6	26.9	24.1	78	27.8			
14	Cu	Ac	Ci	1	2	3000		cpr bcb	b	K	E	5	1012.2	27.7	23.8	71	26.4			
15	Sc	Ac	-	9	9+	2500		b bccr$_o$	cjpr	K	ESE	3	1012.3	26.5	24.3	83	28.6			
16	Cu	Ac	Ci	1	5	2500		cprlbc	bc	K	ESE	2	1013.2	27.2	23.8	74	26.8			
17	Sc	Ac	Ci	6	6	3000		c bc b	bc	M	W	1	1012.8	26.4	23.3	76	26.1			
18	Cu	Ac	-	1	1	3000		bc b	b	M	ESE	1	1011.7	26.7	23.3	74	25.9			
19	Sc	Ac	Cs-Ci	2	7	2500		clpcrr	bc	M	SW	1	1011.6	26.2	24.1	83	28.3			
20	Sc	Ac	Cs	9	9	2500		bcpr c	cpr	K	E	2	1010.4	26.4	24.7	87	29.8			
21	Sc	As	-	3	9+	3000		crcpr$_o$c	c	M	SE	1	1010.0	25.2	22.1	75	24.1			
22	Sc	-	-	2	2	2500		cpr bc	b	M	SE	3	1010.6	26.3	22.1	68	23.2			
23	Sc	-	-	7	7	3000		c bc	bc y	M	ESE	3	1013.4	26.0	20.5	59	19.7			
24	Cu	-	Ci	1	6	3000		bc c w	bc	M	ESE	4	1013.5	26.1	22.4	71	24.1			
25	Sc	-	-	6	6	3000		bc b	bc	K	ESE	6	1013.2	26.7	23.0	71	25.1			
26	Sc	-	-	7	7	3000		bcpr$_o$	bcjpr	K	ESE	5	1014.2	27.2	24.0	76	27.3			
27	Sc	-	-	5	5	3000		bbcjpr	bc	K	SE	2	1013.1	26.1	22.9	75	25.4			
28	Sc	Ac	Ci	6	8	2500		bbc cpr	cjpr	J	E	3	1013.0	27.5	25.1	82	29.9			
29	Sc	Ac	Ci	5	6	2000		clprbc	bc	K	E	5	1012.9	27.0	24.9	84	29.8			
30	Cu	-	Cs	1	6	3000		bcprbcb	bc	K	ESE	3	1011.4	27.7	24.4	75	27.5			
31	Sc	Ac	-	7	7	3000		b bc	bc	M	SSW	1	1012.7	26.0	23.5	80	27.0			
Means	-	-	-	4.1	5.5	2900		-	-	-	-	3.3	1012.9	26.9	23.5	74	26.3			

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APIA OBSERVATORY — METEOROLOGICAL OBSERVATIONS. — 3 p.m. AUGUST 1942.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	WEATHER. Since previous Observation.	At Time.	Visibility.	WIND. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	TEMPERATURE AND HUMIDITY. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	UPPER CLOUD. Type observed.	Direction whence coming.	Speed : Height Ratio.
1	Cu	-	-	6	6	3000		bc	bcjpr	K	E	5	1011.2	28.4	25.3	77%	29.8			
2	Cu	-	-	1	1	4000		b	b	K	E	6	1010.7	28.2	24.2	71	27.0			
3	Fs	As	-	6	10	2000		czjpr	ozqr	J	E	7	1011.5	28.0	24.8	76	28.7			
4	Cu	-	Ci	2	4	3500		c bc	bc	J	E	6	1012.0	28.7	25.5	76	30.1			
5	Cu	Ac	Ci	4	4	4000		b bc	bc	K	ESE	5	1012.1	29.8	24.1	61	25.5			
6	Cu	-	-	2	2	4000		bcpr$_o$	b	K	E	7	1011.1	28.2	24.7	74	28.3			
7	Cu	-	-	1	1	3500		b	b	K	E	6	1009.9	27.8	23.5	68	25.5			
8	Cu	-	Ci	1	1	3000		b bc	b	K	E	5	1010.4	28.3	24.6	73	28.0			
9	Sc	-	-	9	9	6000		bc c	cjr	K	E	6	1010.8	28.6	24.2	68	26.7			
10	Sc	Ac	-	9	9+	2500		bc c	cjpr	J	E	4	1010.1	28.0	24.2	72	27.1			
11	Sc	Ac	Ci	4	7	3000		bcjprc	bcyjp	K	ESE	5	1010.4	28.4	22.7	59	23.0			
12	Sc	Ac	Ci	6	8	3000		cjpr c	c	K	E	6	1011.2	27.7	24.1	73	27.1			
13	Sc	-	-	7	7	2500		bccjpr	bcpr$_o$	K	E	6	1010.3	27.9	24.7	76	28.6			
14	Cu	Ac	Ci	1	4	4000		b bc	bc	K	E	5	1009.8	28.4	23.9	67	26.1			
15	Fs	As	-	7	9+	1500		cir$_o$cjr	cir$_o$	K	ESE	2	1010.2	26.1	24.4	86	29.2			
16	Sc	Ac	-	8	9	3000		bc c	c	K	E	4	1010.8	29.0	26.0	78	31.2			
17	Sc	-	-	4	4	3500		bc b	bc	M	E	4	1009.7	28.8	25.0	72	28.6			
18	Cb	Ac	Ci	2	6	2500		b bc t	bc	M	E	3	1008.6	27.6	25.0	80	29.6			
19	Cb	Ac	Ci	3	4	3500		bcjprt	bcjpr	M	ENE	5	1008.5	28.5	25.2	75	29.4			
20	Sc	Ac	Ci	4	9+	3000		c	c	K	E	2	1007.5	28.9	25.1	72	28.8			
21	Sc	As	-	5	10	2000		c	cjpr	M	E	3	1008.1	26.8	24.1	79	27.9			
22	Cu	Ac	-	6	7	3000		bc y c	cjpr	M	SSE	3	1008.1	26.5	21.5	62	21.6			
23	Sc	Ac	-	5	6	6000		bc y	bc y	M	E	4	1011.3	27.9	21.7	56	21.0			
24	Cu	Ac	-	4	4	3000		bc	bc	K	E	6	1010.7	27.7	23.9	71	26.5			
25	Sc	-	Ci	3	4	3500		bc	bc	K	E	6	1011.1	28.1	23.9	69	26.3			
26	Cu	-	-	2	2	3500		bccjprb	b	K	E	5	1011.4	28.8	24.8	71	28.1			
27	Cu	Ac	Ci	2	3	3000		bc y	bc	K	E	5	1010.9	28.6	23.1	60	23.8			
28	Fs	As	-	8	9+	2000		bccjpr	cpr	J	NE	5	1010.3	27.8	25.2	80	30.0			
29	Cu	Ac	Ci	3	3	3500		cpr bc	bc	K	E	1	1009.3	29.2	25.6	74	30.0			
30	Cu	-	Ci	1	1	3000		bc	b	K	E	5	1008.9	28.5	24.8	73	28.3			
31	Sc	-	-	8	8	2500		bc	cpr$_o$	M	E	2	1009.7	28.9	25.6	76	30.2			
Means	-	-	-	4.3	5.5	3200		-	-	-	-	4.7	1010.2	28.2	24.4	72	27.5			

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METEOROLOGICAL OBSERVATIONS.

AUGUST 1942.

Day of Month.	Thermometers.				Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
	Maximum (°)	Minimum (°)	Grass Minimum (°)	Black Bulb in vacuo (°)				
1	28.9	24.1	22.5		-	8.7		2.5
2	28.8	22.6	21.1		-	10.5		3.0
3	29.2	23.1	21.1		14.0	2.8		2.2
4	29.1	23.8	22.6		-	8.5		-
5	30.1	25.8	23.5		Trace	10.5		4.0
6	28.8	26.2	24.2		Trace	9.2		3.9
7	28.4	24.9	22.6		-	10.6		3.7
8	28.8	23.8	20.9		-	9.5		3.7
9	29.6	24.2	21.4		-	5.2		1.9
10	29.9	22.7	20.8		Trace	7.7		4.0
11	29.3	24.5	23.4		Trace	7.9		4.2
12	28.9	25.1	23.0		7.2	5.6		2.8
13	28.4	24.1	23.0		2.5	6.8		3.2
14	28.8	25.0	23.6		2.1	9.4		3.1
15	27.5	24.3	22.6		1.0	0.6		1.7
16	29.2	22.0	20.7		-	7.6		2.3
17	29.4	22.6	21.0		-	10.6		2.6
18	29.6	22.2	20.6		18.8	9.3		1.8
19	29.0	23.6	22.2		5.6	8.2		2.2
20	29.2	24.1	22.8		5.1	4.5		2.8
21	27.1	24.2	21.5		2.5	0.4		1.9
22	28.7	22.8	21.6		-	8.9		4.3
23	28.1	22.9	20.4		-	7.0		3.9
24	28.0	23.2	20.2		-	10.1		3.6
25	28.2	23.9	22.0		Trace	10.1		3.7
26	28.9	24.9	24.4		-	9.9		3.4
27	28.9	23.8	21.8		Trace	9.8		3.4
28	30.0	25.4	22.7		4.1	8.2		2.1
29	29.2	24.5	23.9		0.8	6.4		1.9
30	29.0	22.3	20.8		Trace	11.0		2.6
31	29.8	22.2	19.5		4.3	6.4		2.1
Sum	-	-	-		68.0	242.0		88.5
Mean	28.9	23.8	22.0		-	7.8		2.9

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METEOROLOGICAL OBSERVATIONS. 9 a.m. SEPTEMBER 1942.

Day of Month.	Cloud. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	At Time.	Visibility.	Wind. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed ; Height Ratio.
1	Sc	Ac	-	9	9	2000		bc cpr	cjpr	K	CALM	0	1013.3	25.9	23.2	79%	26.3			
2	Sc	-	-	2	2	3000		cpr$_o$bcb	b	K	ESE	3	1012.9	27.0	23.1	70	25.1			
3	Sc	Ac	-	9	9	3000		c bc	cjpr	M	ESE	4	1013.9	26.7	23.2	73	25.6			
4	Cu	-	-	3	3	3500		b bc	bc	M	ESE	3	1014.2	27.0	22.4	66	23.4			
5	Sc	Ac	Ci	4	6	3500		bc	bc	M	SW	1	1014.1	24.8	21.2	71	22.3			
6	Sc	Ac-As	-	7	9+	2000		cpr$_o$ltc	cjpr	K	E	1	1012.5	27.1	24.0	76	27.4			
7	Fs	As	-	5	9+	1000		cprir$_o$c	cr$_o$r$_o$	K	E	1	1011.4	26.0	24.0	84	28.3			
8	Sc	As	-	4	9+	2500		cpr c	cjpr	M	ESE	1	1010.8	26.2	23.4	79	26.7			
9	Sc	-	-	9+	9+	1000		cir$_o$ pr	c	K	ENE	3	1011.6	25.2	23.9	89	28.6			
10	Cu	Ac	Ci	Tr.	6	4000		c	bc v	M	SSW	1	1013.8	26.9	23.6	75	26.5			
11	Cu	Ac	-	1	8	3000		bc b bc	c	M	ESE	2	1014.3	27.2	24.2	77	27.8			
12	Cu	-	Cs	2	4	3000		cpr$_o$bcb	bc	M	ENE	4	1016.5	27.9	24.7	76	28.6			
13	Cu	-	-	2	2	3000		b	b	M	E	4	1015.4	28.4	24.6	72	27.9			
14	Cu	-	-	1	1	3500		b	b	M	E	4	1015.2	28.2	23.3	65	24.7			
15	Cu	Ac	Ci	1	8	3000		bcbbcc	c	K	E	4	1014.9	28.7	23.6	64	25.0			
16	Sc	Ac	Ci	5	8	3000		bcbbcc	c	K	ESE	2	1015.2	27.3	23.7	73	26.4			
17	Cu	Ac	Ci	2	4	3000		bcqprbc	bc	K	ESE	6	1014.7	28.1	24.6	75	28.2			
18	Cu	-	-	4	4	3000		cqrbcpr	bc	K	E	6	1013.2	28.2	23.6	67	25.4			
19	Sc	Ac	-	7	9+	2000		coRRltc	cjr	K	ENE	5	1011.5	27.2	24.9	82	29.7			
20	Fs	Ac	-	7	8	2000		corq bc	c	K	ESE	1	1009.3	23.8	23.0	93	27.5			
21	Cb	Ac	Cs	5	7	3000		cpr ir	bcjpr	M	WNW	3	1009.3	27.2	24.6	80	28.9			
22	Sc	As	Cs	6	9	1000		cprcir$_o$	cjpr	M	CALM	0	1013.2	24.8	23.6	90	28.2			
23	Sc	Ac	Ci	4	8	3000		cjpr c	c	M	ESE	1	1014.3	27.1	23.6	73	26.3			
24	Sc	Ac	Ci	2	2	3000		ctqprbc	b	M	ESE	4	1015.2	28.3	23.7	67	25.6			
25	Sc	As	Cs	4	9+	2500		cqpr$_o$	cjpr	K	ESE	5	1013.4	27.5	24.9	80	29.4			
26	Cu	-	-	2	2	3000		cjprbc	b	M	ENE	4	1011.9	28.1	24.2	71	27.1			
27	Sc	Ac	Cs	6	8	3000		bc cpr$_o$	cjpr	K	ESE	5	1011.0	27.9	24.9	77	29.1			
28	Sc	-	Ci	6	6	2500		bccqrpr	bc	M	ENE	2	1011.5	27.9	25.8	84	31.5			
29	Sc	Ac	Ci	4	5	3000		bcjprpr	bc	M	ESE	3	1012.0	28.0	25.6	82	30.9			
30	Cu	-	-	3	3	3000		bcprbc	bc	K	E	3	1011.1	28.6	25.0	74	28.8			
31																				
Means	-	-	-	4.2	6.2	2700		-	-	-	-	2.9	1013.1	27.1	23.9	76	27.2			

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METEOROLOGICAL OBSERVATIONS.

APIA OBSERVATORY — 3 p.m. SEPTEMBER 1942.

Day of Month.	Cloud. Form. Low.	Form. Medium.	Form. High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	Weather. At Time.	Visibility.	Wind. Direction.	Wind. Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed : Height Ratio.
1	Sc	Ac	-	9	9+	2500		cpr$_o$jpr	cpr$_o$	J	CALM	0	1010.5	27.6	23.4	69%	25.4			
2	Sc	-	-	8	8	2500		b bc c	c	K	E	5	1010.2	27.8	23.7	70	26.0			
3	Sc	-	-	7	7	3000		c	bc	K	E	5	1011.5	27.8	24.1	72	27.1			
4	Cu	-	-	3	3	3500		bc	bc	M	E	4	1011.1	28.6	23.6	64	25.1			
5	Sc	Ac-As	-	6	9+	2500		c cpr$_o$	cjpr	M	NNW	2	1011.1	27.4	23.4	70	25.6			
6	Cu	Ac-As	-	8	9+	2000		c cpr$_o$	cjpr	K	CALM	0	1009.1	26.8	24.3	81	28.4			
7	Fs	As	-	8	9	500		cr$_o$r$_o$ o	cjpr	H	N	2	1008.1	25.7	23.9	85	28.2			
8	Sc	-	Ci	9+	9+	1000		cir$_o$	cir$_o$	K	SE	1	1008.8	25.5	23.6	85	27.6			
9	Sc	Ac	-	9	9+	2000		cpr$_o$	cjpr	M	N	3	1009.2	27.4	23.9	73	26.9			
10	Cu	-	Ci	1	4	4000		bc	bc	M	NNW	1	1011.0	27.7	23.6	69	25.8			
11	Fs	As	-	8	10	1500		c	cr$_o$	K	ESE	1	1012.5	26.9	24.8	84	29.6			
12	Cu	Ac	Ci	1	1	3000		bc b	b	M	E	6	1013.0	28.5	25.8	80	31.1			
13	Cu	-	-	1	1	3500		b	b	K	E	6	1013.0	29.3	25.4	72	29.3			
14	Cu	-	Ci	1	3	4000		b	bc	K	E	6	1012.3	29.0	24.2	66	26.3			
15	Cu	-	Ci	1	7	3500		c	bc	K	E	6	1011.5	28.8	24.6	70	27.6			
16	Cu	Ac	Ci	1	6	3500		c bc	bc	K	E	6	1012.9	29.4	25.0	69	28.1			
17	Cu	Ac	-	3	4	3500		bc	bc	K	E	6	1011.1	29.7	24.8	66	27.4			
18	Sc	-	Ci	2	4	3500		bcqprbc	bc	K	E	6	1008.9	28.7	24.8	72	28.2			
19	Sc	As	-	8	10	1500		cpr	cjpr	K	N	2	1007.9	26.4	24.3	83	28.7			
20	Sc	Ac	-	5	9	1500		cpr c	c	K	NNE	3	1006.2	27.5	24.9	80	29.4			
21	Sc	Ac	Ci	4	5	2500		bc	bc	M	NNW	3	1007.3	28.0	25.2	79	29.8			
22	Fs	As	-	5	10	500		cjprir$_o$	cir$_o$	G	ENE	1	1011.5	25.0	23.7	89	28.3			
23	Sc	Ac	-	8	9	3500		bc cjpr	cjpr	M	E	5	1012.1	28.5	25.0	74	28.9			
24	Sc	-	Ci	7	7	3500		b bc	bc	M	N	1	1011.8	29.0	23.3	60	24.0			
25	Cu	-	Ci	2	9+	3000		c	c	K	E	5	1010.8	28.8	24.2	67	26.5			
26	Cu	Ac	-	2	3	3500		bcjprb	bc	K	E	6	1008.8	28.6	25.1	74	29.0			
27	Cu	Ac	-	4	6	3000		c bc	bc	K	E	5	1009.6	29.0	25.8	76	30.7			
28	Cu	Ac	Ci	3	5	3000		bc	bc	K	NE	3	1009.1	29.6	26.0	74	30.7			
29	Cu	-	Ci	2	4	4000		bc	bc	M	E	3	1009.4	29.8	26.1	73	30.9			
30	Cu	Ac	Ci	3	5	3000		bc b	bc	K	E	3	1008.0	29.1	25.9	77	30.9			
31																				
Means	-	-	-	4.6	6.5	2700		-	-	-	-	3.5	1010.3	28.1	24.5	74	28.1			

METEOROLOGICAL OBSERVATIONS.

SEPTEMBER 1942

Day of Month.	Thermometers. Maximum (°)	Minimum (°)	Grass Minimum (°)	Black Bulb in vacuo (°)	Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
1	28.2	24.2	22.9		0.2	4.3		2.2
2	28.7	21.7	20.0		-	4.7		3.4
3	28.9	24.7	23.6		-	6.5		2.6
4	28.8	21.2	18.6		-	10.3		2.8
5	28.9	20.2	18.0		Trace	4.3		2.3
6	27.1	23.5	21.6		1.7	1.5		1.0
7	26.6	23.5	21.8		3.5	2.4		1.3
8	27.9	22.9	21.6		12.4	2.2		1.0
9	28.2	23.5	22.2		1.8	1.7		3.0
10	28.2	22.2	20.8		-	10.8		2.6
11	29.5	22.7	20.9		0.4	3.5		1.8
12	29.3	23.2	21.9		-	11.0		3.1
13	29.5	23.0	21.2		-	11.1		4.2
14	29.1	23.0	21.6		-	11.1		3.6
15	29.4	24.0	21.8		-	9.2		3.6
16	30.0	25.6	22.8		1.0	6.2		3.8
17	29.9	24.3	22.9		3.6	9.6		3.8
18	29.1	23.7	22.5		55.7	8.8		1.9
19	27.8	22.7	22.0		24.0	0.0		0.7
20	28.0	23.6	23.1		29.4	2.9		1.0
21	28.5	23.3	22.5		6.6	8.1		1.8
22	27.5	23.3	22.6		0.8	0.9		1.1
23	28.8	23.6	22.2		0.2	7.5		2.0
24	30.9	22.8	20.8		0.2	9.0		3.4
25	29.1	24.4	23.1		-	6.3		2.7
26	29.1	22.3	20.0		Trace	9.9		3.2
27	29.8	25.9	24.0		33.6	6.7		1.0
28	29.8	23.3	22.2		0.9	10.0		2.1
29	30.0	23.9	22.6		2.0	10.0		2.3
30	29.8	24.2	23.0		-	9.6		2.2
31								
Sum	-	-	-		178.0	200.1		71.5
Mean	28.9	23.3	21.8		-	6.7		2.4

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METEOROLOGICAL OBSERVATIONS.

9 a.m. OCTOBER 1942.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	At Time.	Visibility.	Wind. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed; Height Ratio.
1	Sc	Ac	Ci	2	2	4000		bc b	b	M	CALM	0	1009.2	27.5	24.2	75%	27.5			
2	Cu	-	Ci	1	5	3000		cjpr pr	bcjpr	M	E	1	1009.8	28.2	24.2	71	27.0			
3	Cb	Ac	Ci	4	6	3000		bccprbc	bcjpr	M	E	3	1010.3	28.6	25.0	74	28.8			
4	Cu	-	Ci	4	6	2000		bc pr	bcjpr	M	NNW	3	1010.4	28.0	25.3	80	30.1			
5	Sc	Ac	-	4	8	3000		c cjpr	c	M	WNW	2	1010.1	28.1	25.1	77	29.5			
6	Sc	Ac	Ci	2	3	2500		cprcrbc	bc	M	NNW	1	1010.8	27.1	22.9	68	24.5			
7	Sc	Ac	-	2	2	3500		bc b bc	b	M	ESE	2	1012.4	27.7	24.3	74	27.7			
8	Cu	Ac	Cs	3	7	2500		bc c bc	bcjpr	M	SSE	2	1014.2	27.5	22.9	66	24.2			
9	Sc	-	Ci	3	9	3000		cbcbbc	cjpr	M	E	3	1014.4	28.1	23.8	69	26.0			
10	Sc	Ac	Ci	5	9	2500		cbclpr$_o$	cjpr	K	E	5	1013.6	26.1	23.6	80	27.1			
11	Cu	Ac	Ci	5	8	3000		cbclprc	cjpr	K	E	3	1012.8	28.4	25.3	77	29.8			
12	Sc	Ac	Ci	4	7	3000		crrlcir	bc	M	ESE	2	1013.4	27.2	23.0	68	24.7			
13	Sc	-	-	9	9	2000		cpr$_o$lbc	cjpr	M	E	4	1012.8	28.0	24.4	73	27.7			
14	Cu	Ac	-	1	2	3000		b w	b	M	CALM	0	1013.1	26.7	22.5	68	23.9			
15	Sc	-	-	6	6	2500		b bc	bc	M	WNW	1	1013.0	26.2	21.2	62	21.2			
16	Cu	-	-	3	3	2000		cprqbc	bc	M	ESE	5	1013.1	27.2	22.6	66	23.7			
17	Cu	Ac	Cc	2	7	2500		bc b bc	bc	K	ESE	4	1013.7	28.0	23.4	66	25.1			
18	Sc	-	-	4	4	3000		b bc	bc	K	ESE	3	1014.1	27.0	21.9	62	22.2			
19	Sc	Ac	Cs	4	9+	3000		cjpr	c	K	ESE	4	1014.2	26.2	22.7	73	24.8			
20	Cu	Ac	Ci	4	7	3000		c pr	bc	K	ESE	2	1011.2	28.7	25.1	73	28.7			
21	Sc	-	-	9+	9+	2000		clt RR	cjpr	K	ESE	2	1010.8	25.7	24.0	86	28.5			
22	Sc	Ac	-	7	7	3000		cr$_o$ prq	bcpr$_o$	K	E	4	1009.8	27.2	24.2	77	27.8			
23	Sc	-	-	7	7	2500		ctpr r$_o$	bc	K	N	2	1008.8	26.2	22.8	74	25.0			
24	Cu	-	Ci	1	2	3500		bc l b	b	M	NNE	1	1010.5	27.0	22.9	69	24.6			
25	Sc	Ac	Ci	7	8	2500		bclcprc	cjpr	K	E	4	1012.2	27.2	25.0	83	29.9			
26	Cu	-	Ci	1	2	3000		cbcl b	b	K	E	4	1011.8	28.7	25.2	74	29.2			
27	Cu	Ac	Ci	1	2	3000		bccpr$_o$l	b	K	E	4	1012.4	29.0	26.0	78	31.2			
28	Cu	Ac	Ci	1	2	3000		bcpr$_o$ b	b	K	E	4	1012.6	29.0	25.1	72	28.7			
29	Cu	-	Ci	2	4	3000		bcprcbc	bc	K	E	5	1011.4	28.7	25.4	76	29.8			
30	Sc	Ac-As	-	6	9+	2000		bbcprc	c	K	E	3	1012.3	28.1	25.3	79	30.0			
31	Fs	Ns	-	4	10	1500		coRRlt	or$_o$r$_o$	G	SSE	2	1013.8	24.2	23.2	93	27.8			
Means	-	-	-	3.8	5.8	2700		-	-	-	-	2.7	1012.0	27.5	23.9	71	27.0			

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APIA OBSERVATORY — METEOROLOGICAL OBSERVATIONS. — 3 p.m. OCTOBER 1942.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	WEATHER. Since previous Observation.	At Time.	Visibility.	WIND. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	TEMPERATURE AND HUMIDITY. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	UPPER CLOUD. Type observed.	Direction whence coming.	Speed : Height Ratio.
1	Sc	Ac	-	9	9	1000		bc cjpr	cjpr	M	E	2	1006.0	27.9	24.1	72%	27.0			
2	Cb	-	Ci	2	6	3000		bcjpr	bcjpr	M	ESE	2	1007.8	28.9	25.9	78	31.0			
3	Fs	-	Ci	9	9+	1000		bc cpr	cjpr	K	E	3	1008.6	26.9	25.2	87	30.7			
4	Sc	Ac	Ci	4	9	2500		bccjpr	c	K	NW	3	1007.8	28.1	25.5	80	30.6			
5	Sc	Ac	Ci	5	9	2000		bc cpr	cjpr	K	W	2	1007.2	27.8	26.1	87	32.5			
6	Cu	Ac	Ci	3	5	2500		bc	bc	M	ENE	2	1008.7	28.9	24.8	70	28.0			
7	Cu	-	-	6	6	3000		bc	bc	M	NW	1	1010.1	29.3	24.7	67	27.4			
8	Sc	-	Ci	6	8	3000		bcjpr c	c	M	W	2	1011.9	29.1	24.0	64	25.7			
9	Sc	As-Ac	Ci	8	10	3500		cjpr c	cpr_o	K	E	5	1011.8	27.7	23.9	72	26.6			
10	Cu	Ac	Ci	1	9	3500		cjpr c	c	M	E	5	1011.7	27.8	24.6	76	28.4			
11	Cb	Ac-As	Ci	2	9+	2500		cpr	cpr_o	M	E	4	1010.5	27.6	25.1	81	29.9			
12	Cu	Ac	Ci	2	7	3500		bc	bcjpr	M	E	6	1010.9	28.1	24.9	76	28.1			
13	Sc	-	-	4	4	3000		bcjpr	bc	K	E	5	1009.9	28.9	24.3	67	26.7			
14	Cu	-	-	4	4	3500		b	bc	M	ENE	5	1010.8	28.2	23.7	67	25.7			
15	Sc	As	-	8	9+	2000		bc cpr	cjpr	K	W	1	1010.7	26.0	23.1	77	25.9			
16	Cu	-	Ci	3	4	3000		b bc	bc	K	E	6	1010.9	27.8	23.0	65	24.2			
17	Sc	-	-	9	9	3000		bc cjpr	cjpr	J	E	5	1011.6	27.5	23.8	72	26.5			
18	Sc	-	Ci	4	8	3000		bc c	cjpr	K	E	5	1012.3	27.5	23.2	68	25.0			
19	Sc	Ac	Ci-Cs	2	7	3000		c cjpr	c	K	E	5	1010.0	29.2	25.0	70	28.3			
20	Cu	As	Ci-Cs	4	9	3000		bcpr_o	c	M	E	2	1008.1	28.2	24.7	74	28.3			
21	Fs	As	-	10	10	2000		oRRqo	o RR	M	E	3	1008.4	25.0	22.9	83	26.3			
22	Sc	Ac	-	7	8	3500		ct pr_o	cjpr	K	S	1	1007.6	26.8	23.3	73	25.8			
23	Sc	-	Ci	4	5	3000		bc	bc	K	NE	1	1006.7	28.2	24.0	69	26.5			
24	Cu	Ac	Ci	1	2	3500		b	b	M	NE	2	1008.4	28.9	24.2	66	26.4			
25	Cu	Ac	Ci	2	8	3000		cjprbcc	c	M	ENE	3	1009.6	29.1	24.8	69	27.9			
26	Sc	Ac	Ci	2	6	3500		b bc	bc	L	E	5	1010.2	29.3	26.1	77	31.3			
27	Cu	-	Ci	1	3	3500		bc	bc	K	E	5	1011.1	29.0	25.8	76	30.7			
28	Cu	Ac	Ci	2	5	3500		bc pr_o	bc	K	E	5	1010.4	29.7	26.4	76	31.8			
29	Cu	-	-	2	2	3500		bc b	b	K	E	5	1009.4	29.4	26.1	76	31.2			
30	Cu	Ac	Ci	3	9	3000		cpr c	c	K	E	3	1010.3	29.2	26.1	77	31.3			
31	Cu	Ac-As	-	1	9+	3000		or_or_o c	c	M	E	4	1010.1	28.2	25.3	78	29.9			
Means	-	-	-	4.2	7.0	2900		-	-	-	-	3.5	1009.7	28.2	24.7	74	28.3			

METEOROLOGICAL OBSERVATIONS.

OCTOBER 1942.

Day of Month.	Thermometers.				Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
	Maximum (°)	Minimum (°)	Grass Minimum (°)	Black Bulb in vacuo (°)				
1	29.2	22.8	21.0		1.3	5.8		1.9
2	29.8	22.9	21.5		Trace	9.9		2.2
3	29.9	24.0	23.0		15.1	7.0		1.9
4	28.8	25.2	23.5		-	6.2		2.4
5	28.9	24.9	22.7		2.2	6.8		2.1
6	29.2	23.8	21.9		-	9.5		2.9
7	29.3	24.2	22.2		-	10.2		3.0
8	30.2	24.4	22.4		-	8.2		3.7
9	29.1	23.0	20.9		0.3	4.9		2.9
10	29.4	24.7	-		0.3	5.7		2.4
11	29.8	23.9	22.9		39.2	4.9		1.7
12	29.8	23.1	21.7		Trace	8.8		1.8
13	29.4	22.9	22.1		-	7.3		2.9
14	28.7	22.0	19.8		-	11.4		3.9
15	27.9	22.6	18.0		1.2	6.2		2.5
16	29.0	23.5	21.5		-	11.5		3.8
17	29.3	21.6	19.8		-	5.5		4.0
18	29.1	23.4	20.6		-	9.1		3.1
19	29.9	23.1	22.5		0.8	8.3		3.0
20	29.9	23.2	21.8		77.0	6.4		1.0
21	27.3	23.0	-		37.2	0.8		0.9
22	27.8	22.3	21.9		6.1	2.9		1.4
23	29.2	22.1	20.5		-	11.5		3.6
24	29.5	22.1	20.5		11.4	11.3		2.5
25	29.6	23.6	22.6		-	6.3		2.6
26	29.5	24.9	23.3		Trace	11.9		2.9
27	29.6	25.2	24.0		Trace	11.7		2.9
28	29.8	23.2	21.8		2.5	11.0		3.1
29	30.2	25.0	23.8		7.9	10.6		2.5
30	29.0	24.8	23.4		63.8	5.5		1.7
31	28.8	23.0	22.3		9.2	0.4		1.8
Sum	-	-	-		275.5	237.5		79.0
Mean	29.3	23.5	21.7		-	7.7		2.5

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METEOROLOGICAL OBSERVATIONS.

APIA OBSERVATORY — 9 a.m. NOVEMBER 1942

Day of Month.	CLOUD. Form. Low.	Form. Medium.	Form. High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	Weather. At Time.	Visibility.	Wind. Direction.	Wind. Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed; Height Ratio.
1	Sc.	Ac-As	-	5	8	3000		cprlbcc	c	K	E	5	1011.1	27.1	24.9	83%	29.7			
2	Cu.	Ac.	Ci.	2	3	3000		cbcprbc	bc	K	ESE	2	1008.4	28.2	25.0	76	29.1			
3	Cu.	Ac.	Cs.	2	4	3000		bc b bc	bc	M	NNE	3	1009.2	29.1	25.6	74	30.0			
4	Cu.	Ac.	Ci.	3	8	3000		bccpr c	c	M	ENE	2	1010.5	28.0	25.7	83	31.2			
5	Cu.	Ac.	Ci.	3	7	2500		cbcprbc	bcjpr	K	NE	3	1010.6	28.2	25.3	78	29.9			
6	Cu.	Ac.	Ci.	2	6	3000		cpr bc	bc	K	CALM	0	1008.9	28.0	25.1	78	29.5			
7	Fs.	-	-	10	10	1500		coltrr	orᵒrᵒ	H	CALM	0	1008.9	24.9	24.0	92	29.1			
8	Sc.	-	Ci.	4	8	2000		cbccjpr	c	M	NNW	1	1009.7	26.8	24.4	81	28.6			
9	Cu.	Ac.	-	5	5	3000		b bcjpr	bc	K	E	3	1010.2	28.4	25.7	80	30.9			
10	Sc.	Ac.	Ci.	6	7	2500		bc prbc	bcjpr	M	ENE	1	1010.7	28.1	25.2	78	29.7			
11	Cu.	Ac.	Ci.	4	5	3000		bclbbc	bc	M	E	2	1010.3	29.1	26.1	78	31.4			
12	Cu.	-	Cs.	1	9	2500		cprᵒlbc	c	M	E	1	1008.6	28.0	25.0	77	29.3			
13	Sc.	-	-	5	5	3000		b bc	bcjpr	M	WNW	3	1008.1	28.0	26.0	85	32.0			
14	Sc.	-	-	9	9	2500		cbclbbc	bc	M	CALM	0	1006.6	27.1	23.5	73	26.1			
15	Sc.	Ac-As.	Ci-Cs.	5	10	2500		c	cjpr	K	ENE	1	1005.5	27.4	24.6	79	28.7			
16	Sc.	Ac.	Ci.	2	4	4000		cprbc	bc	M	S	2	1004.6	27.1	22.4	65	23.2			
17	Sc.	As.	-	8	10	4000		bccrprc	cjr	K	SE	1	1007.0	25.1	23.0	83	26.4			
18	Sc.	Ac.	Cc.	2	8	4500		cpr bc	c	M	S	1	1008.6	28.5	24.7	72	28.1			
19	Fs.	-	-	9+	9+	1500		cpr cjr	c/prᵒ	K	N	2	1009.1	26.6	24.4	83	28.8			
20	Fs.	Ns.	-	3	10	500		corqtl	orr/t	H	E	2	1010.8	24.0	23.0	91	27.3			
21	Sc.	As.	Cs.	1	9	3000		cjproir	c	M	E	1	1012.0	27.8	25.0	79	29.4			
22	Cu.	Ac.	Ci.	1	5	4000		c bc	bc	M	ESE	4	1014.1	28.9	26.2	80	31.9			
23	Cu.	Ac.	Ci.	1	4	3000		bcclprᵒ	bc	M	E	4	1013.7	29.2	26.0	77	31.1			
24	Sc.	Ac.	Ci.	3	5	3000		cprl bc	bc	M	N	1	1011.4	27.9	24.3	73	27.5			
25	Sc.	Ac.	-	6	8	2500		cpr bc	c	M	NE	1	1010.9	26.3	23.3	77	26.2			
26	Cu.	-	-	1	1	3000		bc b	b	M	NNE	1	1011.8	26.7	23.0	72	25.1			
27	Sc.	-	-	4	4	3000		bbcprᵒb	bc	M	E	4	1011.7	28.8	24.9	72	28.4			
28	Cu.	-	-	1	1	3000		bc prᵒb	b	K	E	4	1011.1	28.8	24.8	71	28.1			
29	Cu.	-	-	2	2	3000		bcbcb	b	K	ESE	5	1010.3	28.3	24.1	69	26.7			
30	Cu.	-	-	2	2	3000		b bc b	b	K	E	6	1009.8	28.5	24.3	69	27.0			
31																				
Means	-	-	-	3.7	6.2	2800		-	-	-	-	2.2	1009.8	27.6	24.7	78	28.7			

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APIA OBSERVATORY — METEOROLOGICAL OBSERVATIONS. — NOVEMBER 3 p.m. 1942.

Day of Month.	CLOUD. Form. Low.	Form. Medium.	Form. High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	Weather. At Time.	Visibility.	Wind. Direction.	Wind. Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed; Height Ratio.
1	Cu.	Ac.	Cs.	4	9	2500		c cjpr	cjpr	K	E	4	1008.0	27.9	25.1	79%	29.6			
2	Cb.	Ac.	Ci.	4	5	3000		bc	bc	K	NNE	1	1005.7	28.9	25.0	72	28.5			
3	Cu.	Ac.	Ci.	5	7	3500		bc	bc	M	E	3	1007.4	29.3	26.0	76	31.0			
4	Sc.	As.	-	9	9+	500		cjprcpr	cpr	G	NE	3	1008.8	26.2	25.0	90	30.7			
5	Sc.	Ac.	Ci.	7	9	1500		cqprpr$_o$	cjpr	K	ESE	1	1008.1	27.2	25.0	83	29.9			
6	Sc.	Ac.	Ci.	6	7	3000		bc	bc	K	NNW	2	1005.7	28.1	25.2	78	29.7			
7	Fs.	As.	Ci.	5	9	1500		oRRoir$_o$	c	K	NW	3	1006.7	26.0	24.4	87	29.3			
8	Sc.	Ac.	-	7	7	2500		bcjpr	bc	M	E	4	1007.6	29.7	26.3	75	31.5			
9	Cu.	Ac.	-	2	4	3000		bc	bc	M	E	4	1007.6	29.5	26.8	80	33.1			
10	Cu.	Ac.	Ci.	1	4	4000		cbcpr$_o$	bc	M	NNW	1	1008.2	29.2	25.3	72	29.1			
11	Cu.	-	Cs.	5	9+	2500		bctpr$_o$c	c	K	E	1	1008.1	28.5	25.9	81	31.4			
12	Cb.	Ac.	Ci.	2	7	3000		c bc	bc	M	NE	2	1006.4	29.3	26.2	78	31.6			
13	Sc.	Ac.	Ci.	7	9	3500		bcrcpt	cjpr	K	ESE	3	1005.8	27.7	25.7	85	31.4			
14	Sc.	Ac.	-	7	9+	3000		cpr$_o$	c	M	CALM	0	1004.4	28.3	24.9	75	29.0			
15	Sc.	-	Cs.	8	9+	2000		cpr	cjpr	K	WNW	1	1003.5	27.0	24.6	81	29.0			
16	Sc.	Ac.	-	6	7	3500		bc	bc	M	E	3	1002.7	28.7	23.9	65	25.8			
17	Sc.	Ac.	Ci.	6	8	2000		c	c	K	E	3	1004.7	27.1	24.9	83	29.7			
18	Sc.	As.	-	8	10	2500		bcccqpr	cjpr	M	W	3	1006.0	27.3	24.6	79	28.8			
19	Cu.	Ac.	Ci.	3	8	3000		bc c r	c	M	NNW	1	1006.5	28.3	25.5	79	30.4			
20	Sc.	As.	-	6	10	1000		orr c	c	K	E	1	1008.9	25.0	23.2	85	27.0			
21	Cu.	Ac-As.	Ci.	2	9+	2000		c	c	M	ENE	2	1010.6	28.8	25.9	78	31.1			
22	Cu.	-	Cc.	1	3	3000		bc	bc	M	E	3	1012.2	29.9	26.7	77	32.5			
23	Fs.	-	Cs.	9	10	2500		cqrot	cjpr	K	E	2	1011.9	27.0	25.0	84	30.1			
24	Fs.	-	-	9	9	2000		cRt cjr	cir$_o$	J	SSE	1	1009.5	25.9	24.5	89	29.6			
25	Cu.	-	Ci.	3	4	3000		c bc	bc	K	NNW	2	1008.7	29.3	24.0	63	25.6			
26	Sc.	-	-	4	4	3500		b bc	bc	M	ENE	4	1009.4	28.7	23.8	65	25.6			
27	Cu.	-	-	3	3	3500		bc	bc	K	E	6	1009.3	29.0	25.5	74	29.8			
28	Sc.	Ac.	-	6	7	2000		bcjpr	bcjpr	K	E	6	1009.0	28.3	24.9	75	28.8			
29	Cu.	Ac.	Ci.	1	2	3500		b	b	K	E	5	1007.8	29.5	24.4	64	26.5			
30	Sc.	Ac.	-	8	8	3500		bcjpr c	c	K	E	6	1007.5	28.7	23.8	65	25.6			
31																				
Means	-	-	-	5.1	7.2	2700		-	-	-	-	2.7	1007.6	28.1	25.1	77	29.4			

METEOROLOGICAL OBSERVATIONS.

NOVEMBER 1942.

Day of Month.	Thermometers.				Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
	Maximum (°)	Minimum (°)	Grass Minimum (°)	Black Bulb in vacuo (°)				
1	29.9	24.2	23.0		3.0	4.4		2.2
2	29.2	24.1	23.5		-	11.0		2.6
3	30.2	23.7	22.8		4.2	11.8		2.6
4	29.4	25.3	23.5		7.5	5.8		1.4
5	28.8	24.9	23.4		7.7	4.8		1.3
6	28.9	23.7	-		58.2	9.4		0.9
7	28.9	23.9	23.4		60.4	1.9		0.9
8	29.8	23.6	22.7		-	8.3		1.9
9	30.1	23.5	22.5		4.0	8.7		1.9
10	29.9	24.3	23.3		0.8	9.8		2.1
11	29.9	24.3	23.3		Trace	6.9		1.8
12	29.8	23.7	22.6		-	10.8		2.2
13	30.4	24.3	22.6		4.5	6.6		1.8
14	29.8	23.6	21.7		0.6	3.0		2.3
15	27.4	24.2	22.6		5.2	1.5		1.2
16	29.9	22.2	20.0		5.1	8.7		2.7
17	28.5	23.1	22.2		0.9	2.4		1.6
18	29.2	23.6	22.0		4.7	6.6		2.0
19	29.0	24.3	23.4		20.9	4.2		1.7
20	27.9	22.5	22.0		20.5	0.0		0.5
21	29.6	22.7	22.1		-	4.8		2.2
22	30.1	23.0	21.8		Trace	10.9		2.4
23	30.0	23.6	22.2		4.7	4.3		1.6
24	29.2	23.2	21.8		29.4	5.2		1.2
25	30.1	23.0	21.9		-	10.1		3.0
26	29.1	21.2	18.9		Trace	11.7		3.5
27	29.2	22.5	20.7		Trace	10.3		3.2
28	29.7	22.4	21.4		-	8.0		3.7
29	29.9	22.0	20.3		-	12.1		3.8
30	29.5	25.1	22.8		-	10.0		4.0
31								
Sum	-	-	-		242.3	214.0		64.2
Mean	29.4	23.5	22.2		-	7.1		2.1

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METEOROLOGICAL OBSERVATIONS.

APIA OBSERVATORY — 9 a.m. DECEMBER 1942.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	Weather. Since previous Observation.	At Time.	Visibility.	Wind. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	Temperature and Humidity. Dry Bulb (°).	Wet Bulb (°).	Relative Humidity (%).	Vapour Pressure (Millibars).	Upper Cloud. Type observed.	Direction whence coming.	Speed: Height Ratio.
1	Cu.	-	Ci.	1	5	3500		cbcbbc	bc	M	ESE	4	1010.3	28.1	23.8	69%	26.0			
2	Cu.	-	Ci-Cs	1	5	3000		c bc	bc	M	E	6	1010.3	28.5	24.3	69	27.0			
3	Sc.	As.	Ci-Cs	4	9+	3000		c cjprc	c	K	ESE	3	1009.5	26.6	24.0	80	27.8			
4	Cu.	Ac.	Ci-Cs	3	4	3000		cbcjpr	bcjpr	M	E	4	1010.5	28.8	25.0	72	28.6			
5	Cb.	Ac-As.	Ci-Cs	6	9+	3000		cpr_obcc	cpr	K	ESE	3	1011.5	27.0	24.2	78	28.0			
6	Sc.	As.	Cs.	4	9+	2500		$cbccpr_o$	cjpr	M	SSE	2	1012.4	26.1	24.0	83	28.2			
7	Sc.	Ac.	Ci.	6	8	2500		cbcprc	cjpr	K	ESE	3	1011.1	27.1	24.8	82	29.5			
8	Cu.	Ac.	Ci.	2	5	3000		cprltbc	bc	K	E	3	1011.2	29.0	26.0	78	31.2			
9	Cu.	-	Ci.	3	4	2000		bccprbc	bc	K	E	4	1012.1	29.0	25.9	77	30.9			
10	Cb.	Ac.	Ci-Cs	2	4	3000		cpr_o bc	$bcpr_o$	M	E	5	1012.3	28.9	25.2	73	29.1			
11	Cu.	-	Ci.	2	2	3000		bc	bc	K	E	6	1011.5	28.9	25.1	72	28.8			
12	Fs.	As.	-	8	10	2500		corrLTc	cpr_o	K	E	2	1011.5	27.1	25.0	83	30.0			
13	Sc.	As-Ac.	Cs.	4	9+	4000		cbcprtc	c	M	ESE	1	1012.1	27.4	24.1	75	27.4			
14	Cu.	Ac.	-	2	3	3000		cbc b	bc	M	E	5	1011.6	29.2	25.8	75	30.4			
15	Cu.	As.	-	1	2	3000		cTLRbcb	b	M	E	4	1011.6	28.9	25.9	78	31.0			
16	Sc.	-	-	4	4	3000		ctqprbc	bc	M	E	5	1012.2	28.7	25.1	73	29.0			
17	Cu.	Ac.	-	3	3	3000		bc b bc	bcpr	M	E	3	1010.2	28.1	24.5	73	27.9			
18	Sc.	-	Ci.	4	4	3000		bccpcqr	bc	K	E	5	1010.1	28.5	25.5	78	30.2			
19	Cu.	-	-	2	2	3000		bcprbc	b	M	E	2	1011.5	29.0	25.2	72	29.0			
20	Cb.	Ac.	Cs.	4	7	1500		bc pr c	bcjpr	K	NE	2	1010.9	26.1	24.0	83	28.2			
21	Fs.	As.	-	7	9+	2500		or_oprRR	cjpr	K	W	2	1010.7	24.3	23.0	89	27.1			
22	Cb.	Ac.	Ci-Cs	4	6	3000		cr_or_otc	bcjpr	K	E	1	1009.1	26.1	23.8	82	27.7			
23	Fs.	-	-	10	10	1500		co_ltRR	or_o	K	N	5	1009.9	25.1	23.8	89	28.5			
24	Sc.	As.	-	10	10	1500		orr	o	K	CALM	0	1010.7	23.8	23.0	93	27.5			
25	Fs.	As.	-	8	10	3000		oRR	ojr	K	S	3	1011.4	23.3	23.0	97	27.9			
26	Sc.	As.	-	7	8	2000		cr_opr_o	cjpr	K	SE	1	1010.1	26.7	24.8	85	29.8			
27	Cu.	Ac.	-	2	3	3000		c	bc	K	CALM	0	1010.0	27.2	23.7	73	26.5			
28	Cu.	-	Ci.	1	7	3000		clPRbc	bc	K	NNW	3	1008.1	27.8	25.0	79	29.5			
29	Sc.	-	Ci.	6	9	2000		cpr rrc	c	M	E	1	1007.0	25.8	23.5	82	27.1			
30	Sc.	Ac.	Ci.	3	8	3500		c	c	K	ESE	2	1006.2	28.0	24.9	77	29.0			
31	Sc.	As.	-	3	10	1500		c or_o	o/pr_o	K	NNE	3	1007.2	27.9	24.7	76	28.6			
Means	-	-	-	4.1	6.4	2700		-	-	-	-	3.0	1010.5	27.3	24.5	79	28.6			

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METEOROLOGICAL OBSERVATIONS. DECEMBER 1942. 3 p.m.

Day of Month.	CLOUD. Form. Low.	Medium.	High.	Amount of Low.	Total Amount.	Height of Base.	How Height was obtained.	WEATHER. Since previous Observation.	At Time.	Visibility.	WIND. Direction.	Force (Beaufort Scale).	Barometer reduced to M.S.L. (Millibars).	TEMPERATURE AND HUMIDITY. Dry Bulb (°C).	Wet Bulb (°C).	Relative Humidity (%).	Vapour Pressure (Millibars).	UPPER CLOUD. Type observed.	Direction whence coming.	Speed : Height Ratio.
1	Sc.	Ac.	Ci.	6	8	3500		c	c	M	E	4	1007.8	28.9	24.9	71%	28.3			
2	Sc.	–	Ci.	4	8	3500		bc c	c	M	E	5	1007.3	29.6	25.5	71	29.3			
3	Sc.	Ac-As	–	4	9+	3500		c c	c	M	E	3	1007.3	28.9	25.1	72	28.8			
4	Cb.	Ac.	Ci-Cs	3	7	2500		bccjpr	bcjpr	K	ENE	5	1008.1	27.8	24.9	78	29.2			
5	Cu.	Ac-As	Ci.	1	8	2500		cjrcrrc	c	M	E	1	1008.9	27.8	24.6	76	28.4			
6	Cu.	As.	Ci-Cs	2	7	2500		cjprpro	cjpr	M	E	4	1010.0	29.3	25.6	73	29.9			
7	Cb.	Ac.	Ci.	7	9	2000		bcjprpr	cjpr	K	ESE	2	1009.0	27.0	25.2	86	30.6			
8	Cu.	–	Ci.	3	7	2500		bc	bc	M	E	3	1009.5	30.0	26.0	72	30.4			
9	Cu.	–	–	3	3	4000		bc	bc	M	E	4	1010.4	30.1	26.3	73	31.2			
10	Sc.	Ac.	Ci.	6	7	3500		bc pro	bc	K	E	6	1010.4	30.0	26.3	73	31.3			
11	Fs.	–	–	9	9	3000		bcjpr	cprq	J	ENE	6	1009.1	29.1	26.1	78	31.4			
12	Sc.	As.	Cs.	5	9+	2000		cpro	cjpr	M	ENE	3	1009.5	28.9	26.4	81	32.4			
13	Cu.	Ac.	Cs.	1	10	2500		cjpr t	c	M	E	1	1010.4	27.7	24.4	75	27.9			
14	Cb.	–	Ci.	3	4	3500		b bcjpr	bc t	M	E	5	1010.0	29.3	26.0	76	31.0			
15	Cu.	–	Ci.	5	5	3000		b bc	bcjpr	M	E	3	1010.0	29.4	26.2	77	31.5			
16	Cu.	–	Ci.	3	3	3500		bc	bc	M	ENE	3	1009.4	29.4	25.4	71	29.2			
17	Cb.	–	Ci.	3	4	3500		bcbcjpr	bc	M	E	5	1007.8	28.6	24.9	73	28.5			
18	Cu.	Ac.	Ci.	2	4	4000		bc	bc	M	E	3	1008.5	29.2	25.5	73	29.7			
19	Cu.	–	Cs.	3	8	2500		bc c	c	M	NNE	2	1009.5	28.9	25.2	73	29.1			
20	Fs.	–	–	10	10	1500		bccpr	orror	H	S	2	1009.8	25.0	23.9	92	29.1			
21	Sc.	As.	Cs.	7	9	2500		cjpr	cpro	K	ENE	3	1007.6	27.4	24.4	77	28.2			
22	Cb.	As.	–	6	10	2000		cjpropr	cjpr	K	ESE	1	1007.5	25.9	24.0	85	28.3			
23	Sc.	As.	–	7	10	1000		orRqc	cjpr	K	N	5	1008.9	25.4	23.5	85	27.5			
24	Fs.	As.	–	2	10	1500		oorrojr	or	M	SSW	2	1009.7	25.5	23.8	86	28.1			
25	Fs.	Ns.	–	5	10	1500		cjrorq	orr	J	S	3	1009.7	23.1	22.5	95	26.8			
26	Cu.	Ac.	Ci.	4	5	2500		cprbc	bc	K	NE	1	1007.8	28.4	25.1	75	29.2			
27	Cu.	Ac.	Ci.	2	5	4500		bc b bc	bc	M	N	1	1007.2	28.9	24.9	72	28.5			
28	Cu.	–	Cs.	8	10	2000		c t	cpro	K	NW	3	1005.8	28.2	25.3	78	29.9			
29	Sc.	Ac.	Cs.	8	9+	8000		c	c	K	WNW	3	1004.6	28.6	25.1	74	29.0			
30	Sc.	As.	Cs.	4	9+	2000		ccqpr	cpro	M	NNE	1	1004.8	26.7	24.3	81	28.5			
31	Cu.	As.	–	5	10	2000		opr qo	ojpr	K	NNE	3	1004.9	28.2	25.6	79	30.8			
Means	–	–	–	4.5	7.7	2900		–	–	–	–	3.1	1008.4	28.1	25.1	77	29.4			

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METEOROLOGICAL OBSERVATIONS.

DECEMBER 1942.

Day of Month.	Thermometers. Maximum (°)	Minimum (°)	Grass Minimum (°)	Black Bulb in vacuo (°)	Rainfall (mm.)	Sunshine (hrs.)	Heat Integrator.	Evaporimeter.
1	29.9	21.8	19.9		0.2	8.9		3.4
2	30.1	24.4	23.0		-	11.1		3.1
3	29.1	24.0	22.3		-	0.7		2.4
4	29.9	23.8	21.9		Trace	6.9		2.6
5	29.0	23.8	21.7		8.8	7.2		1.8
6	29.9	23.7	22.5		1.0	5.6		2.2
7	30.3	24.0	22.5		7.8	7.3		1.6
8	30.2	23.5	22.2		4.3	10.5		2.6
9	30.5	25.5	24.1		Trace	11.2		2.9
10	30.2	24.7	22.9		Trace	10.7		3.6
11	30.0	25.9	23.7		18.1	7.5		1.8
12	29.9	24.1	23.2		2.0	4.2		1.6
13	29.5	24.4	23.8		-	0.0		2.0
14	29.9	23.3	21.3		23.1	9.6		2.3
15	30.0	23.5	22.2		4.3	9.4		2.1
16	30.0	22.9	21.5		Trace	12.0		2.6
17	30.1	24.3	22.6		14.4	9.6		2.0
18	30.2	23.5	22.9		5.4	9.1		2.2
19	29.5	24.6	23.5		1.7	10.3		2.2
20	27.7	24.1	22.8		62.1	2.9		0.6
21	27.5	22.5	21.7		3.6	2.5		1.1
22	27.5	22.8	22.0		146.2	2.3		0.4
23	25.5	22.8	22.8		54.9	0.0		0.2
24	26.3	21.8	-		91.6	0.0		-
25	28.7	22.6	22.8		25.9	1.9		0.3
26	29.1 =	23.1	22.5		0.6	7.3		2.3
27	29.6	23.0 =	-		21.0	11.0		0.9
28	28.6	24.8 =	23.0		3.4	6.7		1.7
29	29.0	23.6	21.6		-	5.2		2.6
30	29.0	23.3	21.3		5.8	2.6		2.2
31	28.5	24.0	22.0		15.3	0.2		1.2
Sum	-	-	-		521.5	194.4		58.5
Mean	29.2	23.6	22.4		-	6.3		1.9

= Estimated from thermograph.

METEOROLOGICAL ELEMENTS: EXTREME VALUES, NORMALS AND VARIATIONS, 1942

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
PRESSURE													
Normal (mb).	1007.6	1008.3	1009.1	1009.8	1010.9	1011.5	1011.7	1012.1	1012.0	1011.2	1009.3	1008.1	1010.1
Variation 1942	-1.1	-2.8	+0.2	-0.1	-1.0	-0.5	-0.3	-0.5	-0.4	-0.4	-0.7	+1.4	-0.5
Absolute Maximum ..	1010.7	1011.5	1013.9	1013.3	1013.8	1016.2	1014.4	1015.3	1016.5	1015.0	1014.4	1013.2	1016.5
Absolute Minimum ..	1001.4	999.5	1004.6	1005.9	1005.0	1006.6	1007.8	1007.2	1006.1	1006.0	1002.1	1004.4	999.5
TEMPERATURE													
Normal (°C).	26.27	26.26	26.31	26.18	25.97	25.59	25.29	25.59	25.79	26.07	26.08	26.32	25.98
Variation 1942	+1.10	+1.08	+0.64	+0.22	+0.69	+1.12	+0.34	+0.56	+0.23	+0.05	+0.10	-0.07	+0.50
Absolute Maximum ..	32.8	32.7	31.6	30.9	31.8	31.1	29.9	30.1	30.9	30.2	30.4	30.5	32.8
Absolute Minimum ..	22.8	23.9	23.3	21.6	21.3	21.7	20.1	22.0	20.2	21.6	21.2	21.8	20.1
Greatest daily range	7.0	7.3	7.2	8.1	8.3	7.5	8.3	7.6	8.7	7.7	7.9	8.1	8.7
Mean Maximum	30.2	30.2	30.4	29.9	30.1	29.9	28.8	28.9	28.9	29.3	29.4	29.2	29.6
Mean Minimum	25.0	25.0	24.3	23.7	23.9	24.1	22.9	23.8	23.3	23.5	23.5	23.6	23.9
RAINFALL													
Normal (m.m.)	455	385	358	255	161	130	82	89	133	169	267	370	2854
Variation 1942	-208	-46	-146	-44	-44	+18	+81	-21	+45	+106	-25	+151	-133
SUNSHINE													
Normal (hours)	160	158	185	195	215	210	232	238	224	222	187	174	2400
Variation 1942	+55	+ 3	+11	+16	+41	+11	0	+ 4	-24	+15	+27	+20	+179

PRESSURE: MEANS OF HOURLY VALUES, 1942

From readings in millibars at exact hours (1000 mb. + tabular values)

Hour	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
Month																									
January	7.01	6.46	6.09	5.91	5.90	6.19	6.84	7.38	7.47	7.46	7.24	6.83	6.26	5.75	5.28	4.98	5.08	5.42	6.19	6.55	6.95	7.35	7.55	7.37	6.48
February	5.80	5.36	4.96	4.79	4.86	5.04	5.51	6.14	6.31	6.37	6.16	5.69	5.27	4.73	4.35	4.17	4.24	4.60	5.25	5.73	6.20	6.45	6.57	6.35	5.45
March	9.72	9.31	8.95	8.75	8.73	8.95	9.36	10.05	10.50	10.61	10.40	9.70	9.14	8.40	7.87	7.67	7.77	8.14	8.81	9.35	9.75	10.06	10.20	10.00	9.26
April	10.28	9.76	9.37	9.19	9.19	9.28	9.87	10.65	10.93	11.07	10.98	10.31	9.59	8.85	8.29	8.07	8.17	8.52	9.25	9.77	10.35	10.63	10.68	10.53	9.73
May	10.29	9.97	9.76	9.49	9.41	9.53	10.07	10.65	11.22	11.27	11.10	10.40	9.75	9.04	8.36	8.18	8.32	8.67	9.51	9.99	10.53	10.73	10.73	10.62	9.90
June	11.34	11.03	10.78	10.54	10.59	10.73	11.13	11.81	12.30	12.43	12.22	11.65	10.96	10.25	9.70	9.55	9.67	10.04	10.70	11.08	11.51	11.68	11.73	11.55	11.04
July	11.85	11.51	11.07	10.83	10.81	10.92	11.35	11.95	12.58	12.87	12.56	11.91	11.17	10.55	10.05	9.85	10.08	10.44	11.15	11.57	12.01	12.20	12.17	11.99	11.39
August	12.01	11.55	11.20	10.92	10.88	11.10	11.62	12.34	12.85	13.16	12.85	12.04	11.34	10.67	10.21	10.13	10.21	10.47	11.25	11.69	12.17	12.44	12.45	12.29	11.58
September	11.89	11.32	10.97	10.80	10.89	11.18	11.87	12.69	13.05	13.10	12.89	12.24	11.44	10.74	10.28	10.08	10.23	10.62	11.32	11.81	12.21	12.45	12.44	12.29	11.61
October	10.99	10.56	10.10	9.99	10.15	10.42	10.99	11.84	12.03	12.04	11.82	11.26	10.59	10.00	9.66	9.50	9.57	9.86	10.67	11.11	11.48	11.83	11.96	11.59	10.83
November	8.69	8.07	7.67	7.66	7.85	8.27	8.83	9.47	9.81	9.75	9.49	8.99	8.38	7.92	7.56	7.30	7.42	7.80	8.47	8.91	9.35	9.59	9.61	9.24	8.58
December	10.03	9.28	8.88	8.79	8.90	9.29	10.03	10.37	10.48	10.52	10.26	9.73	9.27	8.89	8.43	8.12	8.20	8.60	9.25	9.84	10.24	10.52	10.69	10.52	9.55
Year	9.99	9.51	9.15	8.97	9.01	9.24	9.79	10.45	10.79	10.89	10.66	10.06	9.43	8.82	8.34	8.13	8.25	8.60	9.32	9.78	10.23	10.49	10.57	10.36	9.62
Wet Season 1941-42	7.69	7.20	6.79	6.64	6.70	6.97	7.54	8.09	8.20	8.18	7.95	7.52	7.01	6.48	6.05	5.80	5.87	6.22	6.97	7.41	7.87	8.21	8.41	8.18	7.25
Dry Season 1942	11.37	11.01	10.70	10.45	10.42	10.57	11.04	11.69	12.24	12.43	12.18	11.50	10.81	10.13	9.58	9.43	9.57	9.91	10.65	11.08	11.55	11.76	11.77	11.61	10.98

PRESSURE: DIURNAL CHANGES, 1942

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

Hour	Mean	1	2	3	4	5	6	7	8	9	10	11	noon	13	14	15	16	17	18	19	20	21	22	23	24
Month	1000 +																								
January	6.48	+0.48	-0.07	-0.44	-0.61	-0.61	-0.32	+0.33	+0.88	+0.98	+0.97	+0.75	+0.35	-0.21	-0.72	-1.19	-1.48	-1.37	-1.03	-0.26	+0.11	+0.52	+0.92	+1.12	+0.95
February	5.45	+0.41	-0.04	-0.44	-0.62	-0.58	-0.38	+0.09	+0.71	+0.88	+0.93	+0.72	+0.24	-0.19	-0.73	-1.12	-1.30	-1.24	-0.88	-0.24	+0.24	+0.70	+0.95	+1.06	+0.83
March	9.26	+0.47	+0.05	-0.31	-0.51	-0.53	-0.31	+0.10	+0.79	+1.24	+1.35	+1.14	+0.44	-0.12	-0.86	-1.39	-1.59	-1.49	-1.12	-0.45	+0.09	+0.49	+0.80	+0.93	+0.73
April	9.73	+0.54	+0.02	-0.37	-0.55	-0.55	-0.46	+0.13	+0.91	+1.20	+1.34	+1.25	+0.58	-0.14	-0.88	-1.44	-1.65	-1.55	-1.20	-0.57	+0.05	+0.63	+0.91	+0.96	+0.81
May	9.90	+0.40	+0.08	-0.13	-0.40	-0.48	-0.36	+0.18	+0.76	+1.32	+1.37	+1.20	+0.50	-0.15	-0.86	-1.54	-1.73	-1.59	-1.24	-0.40	+0.08	+0.62	+0.82	+0.82	+0.71
June	11.04	+0.34	+0.03	-0.23	-0.47	-0.42	-0.29	+0.11	+0.78	+1.27	+1.40	+1.18	+0.61	-0.08	-0.80	-1.35	-1.50	-1.39	-1.02	-0.37	+0.01	+0.44	+0.60	+0.65	+0.47
July	11.39	+0.45	+0.11	-0.33	-0.57	-0.59	-0.48	-0.05	+0.55	+1.19	+1.48	+1.17	+0.52	-0.22	-0.84	-1.34	-1.53	-1.30	-0.94	-0.23	+0.19	+0.63	+0.82	+0.79	+0.61
August	11.58	+0.42	-0.04	-0.39	-0.67	-0.71	-0.49	+0.03	+0.75	+1.27	+1.58	+1.27	+0.46	-0.24	-0.91	-1.37	-1.44	-1.36	-1.10	-0.32	+0.12	+0.60	+0.87	+0.88	+0.72
September	11.61	+0.24	-0.33	-0.67	-0.84	-0.75	-0.45	+0.24	+1.07	+1.43	+1.48	+1.28	+0.63	-0.17	-0.86	-1.32	-1.52	-1.36	-0.97	-0.26	+0.23	+0.63	+0.88	+0.87	+0.78
October	10.83	+0.20	-0.24	-0.70	-0.81	-0.66	-0.39	+0.18	+1.02	+1.21	+1.22	+0.99	+0.43	-0.24	-0.84	-1.18	-1.34	-1.28	-0.99	-0.18	+0.25	+0.62	+1.10	+0.72	+0.72
November	8.58	+0.08	-0.54	-0.93	-0.94	-0.75	-0.32	+0.24	+0.88	+1.22	+1.16	+0.91	+0.41	-0.20	-0.65	-1.01	-1.27	-1.15	-0.77	-0.09	+0.35	+0.79	+1.04	+1.06	+0.69
December	9.55	+0.43	-0.31	-0.71	-0.79	-0.68	-0.29	+0.46	+0.80	+0.92	+0.96	+0.71	+0.18	-0.28	-0.65	-1.11	-1.41	-1.33	-0.92	-0.27	+0.32	+0.73	+1.01	+1.19	+1.02
Year	9.62	+0.38	-0.11	-0.47	-0.65	-0.61	-0.38	+0.17	+0.83	+1.18	+1.27	+1.05	+0.45	-0.19	-0.80	-1.28	-1.48	-1.37	-1.02	-0.30	+0.17	+0.61	+0.89	+0.91	+0.75
Wet Season 1941-42	7.25	+0.43	-0.06	-0.47	-0.62	-0.56	-0.29	+0.29	+0.84	+0.95	+0.93	+0.71	+0.27	-0.23	-0.76	-1.20	-1.44	-1.37	-1.01	-0.27	+0.17	+0.63	+0.98	+1.20	+0.95
Dry Season 1942	10.98	+0.40	+0.04	-0.27	-0.53	-0.55	-0.41	+0.07	+0.71	+1.26	+1.46	+1.21	+0.52	-0.17	-0.85	-1.40	-1.55	-1.41	-1.07	-0.33	+0.10	+0.57	+0.78	+0.88	+0.63

TEMPERATURE: MEANS OF HOURLY VALUES, 1942

From readings in degrees centigrade at exact hours.

Hour / Month	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
January	25.94	25.77	25.60	25.53	25.29	25.20	25.54	27.14	28.21	28.99	29.10	29.07	29.09	29.09	29.13	29.02	28.83	28.47	27.90	27.48	27.11	26.67	26.45	26.22	27.37
February	26.09	25.93	25.74	25.57	25.52	25.50	25.63	26.90	28.16	28.84	29.04	29.25	29.06	29.00	28.94	28.73	28.63	28.40	27.95	27.30	26.88	26.59	26.33	26.20	27.34
March	25.35	25.20	24.95	24.77	24.70	24.64	24.97	26.13	27.77	28.70	28.98	29.25	29.36	29.24	29.31	29.22	28.53	27.88	27.50	26.77	26.39	25.99	25.75	25.51	26.95
April.	24.62	24.48	24.42	24.23	24.22	24.12	24.25	25.66	27.62	28.65	28.76	28.57	28.69	28.80	28.54	28.12	27.97	27.44	26.91	26.14	25.74	25.41	25.21	24.92	26.40
May	24.80	24.66	24.44	24.35	24.23	24.29	24.34	25.54	27.52	28.86	29.19	29.19	29.51	29.41	29.25	28.96	28.44	27.81	27.24	26.20	25.83	25.45	25.25	25.03	26.61
June	25.37	25.10	24.95	24.80	24.76	24.62	24.70	25.67	27.28	28.29	28.93	29.01	29.03	29.01	28.80	28.46	28.09	27.56	27.10	26.31	26.14	25.82	25.64	25.51	26.71
July	24.12	23.84	23.75	23.60	23.61	23.55	23.71	24.44	26.13	27.43	27.98	28.01	28.15	28.13	27.85	27.31	26.85	26.24	26.10	25.35	25.12	24.83	24.66	24.37	25.63
August	24.87	24.89	24.78	24.63	24.54	24.48	24.60	25.51	26.79	27.64	28.12	28.30	28.37	28.50	28.11	27.41	27.06	26.48	26.14	25.75	25.45	25.25	25.13	24.95	26.15
September	24.59	24.38	24.20	24.11	24.09	24.12	24.50	25.73	27.04	27.62	27.98	27.90	28.06	28.09	27.94	27.56	27.06	26.71	26.22	25.84	25.57	25.35	25.10	24.81	26.02
October	24.58	24.37	24.24	24.16	24.06	23.93	24.37	26.25	27.44	27.79	28.04	28.26	28.25	28.38	28.13	27.84	27.41	26.72	26.09	25.74	25.57	25.30	25.11	24.96	26.12
November	24.62	24.42	24.23	24.12	23.97	23.95	24.64	26.77	27.67	27.97	27.94	27.86	28.06	28.30	28.03	27.79	27.48	27.08	26.53	26.06	25.59	25.29	25.09	24.86	26.18
December	24.86	24.55	24.35	24.34	24.21	24.15	25.01	26.30	27.29	27.94	28.06	28.22	28.22	27.98	28.05	27.66	27.30	27.04	26.69	26.34	25.82	25.45	25.28	25.01	26.25
Year	24.98	24.80	24.64	24.52	24.43	24.38	24.69	26.00	27.41	28.23	28.51	28.57	28.65	28.66	28.51	28.17	27.80	27.32	26.86	26.27	25.93	25.62	25.42	25.20	26.48
Wet Season 1941-1942	25.71	25.54	25.35	25.21	25.06	25.03	25.52	27.15	28.20	28.84	29.03	29.05	29.03	29.04	29.00	28.76	28.50	28.12	27.66	27.15	26.75	26.39	26.13	25.93	27.17
Dry Season 1942	24.79	24.62	24.48	24.34	24.29	24.23	24.34	25.29	26.93	28.05	28.55	28.63	28.77	28.76	28.50	28.03	27.61	27.02	26.65	25.90	25.63	25.33	25.17	24.97	26.29

TEMPERATURE: DIURNAL CHANGES, 1942

The departures in degrees centigrade from the mean of the day are adjusted for non-cyclic change.

Hour	Mean	1	2	3	4	5	6	7	8	9	10	11	noon	13	14	15	16	17	18	19	20	21	22	23	24
Month																									
January	27.37	-1.42	-1.59	-1.76	-1.83	-2.07	-2.16	-1.82	-0.22	+0.85	+1.62	+1.73	+1.70	+1.72	+1.72	+1.75	+1.64	+1.45	+1.09	+0.52	+0.10	-0.27	-0.71	-0.93	-1.16
February	27.34	-1.25	-1.41	-1.60	-1.77	-1.82	-1.84	-1.71	-0.44	+0.82	+1.50	+1.70	+1.91	+1.72	+1.66	+1.60	+1.39	+1.29	+1.06	+0.61	-0.04	-0.46	-0.75	-1.01	-1.14
March	26.95	-1.63	-1.78	-2.02	-2.20	-2.27	-2.33	-1.99	-0.83	+0.81	+1.74	+2.03	+2.30	+2.41	+2.30	+2.37	+2.28	+1.59	+0.95	+0.57	-0.16	-0.54	-0.93	-1.17	-1.41
April	26.40	-1.76	-1.90	-1.96	-2.15	-2.17	-2.27	-2.14	-0.73	+1.23	+2.25	+2.36	+2.17	+2.29	+2.40	+2.13	+1.71	+1.56	+1.03	+0.50	-0.28	-0.68	-1.01	-1.21	-1.51
May	26.66	-1.87	-2.00	-2.22	-2.31	-2.43	-2.37	-2.32	-1.12	+0.86	+2.20	+2.53	+2.53	+2.85	+2.75	+2.59	+2.30	+1.78	+1.15	+0.58	-0.46	-0.83	-1.21	-1.40	-1.62
June	26.71	-1.38	-1.64	-1.79	-1.94	-1.97	-2.11	-2.03	-1.05	+0.56	+1.57	+2.22	+2.30	+2.32	+2.31	+2.10	+1.78	+1.40	+0.87	+0.41	-0.37	-0.54	-0.86	-1.03	-1.16
July	25.63	-1.46	-1.75	-1.84	-2.00	-1.99	-2.05	-1.90	-1.17	+0.51	+1.81	+2.35	+2.38	+2.52	+2.49	+2.21	+1.66	+1.20	+0.58	+0.44	-0.31	-0.55	-0.84	-1.02	-1.31
August	26.15	-1.30	-1.28	-1.39	-1.54	-1.62	-1.68	-1.56	-0.65	+0.63	+1.49	+1.97	+2.15	+2.22	+2.35	+1.97	+1.26	+0.92	+0.34	0.00	-0.40	-0.68	-0.90	-1.00	-1.17
September	26.02	-1.43	-1.64	-1.82	-1.91	-1.93	-1.90	-1.52	-0.29	+1.02	+1.60	+1.96	+1.88	+2.04	+2.07	+1.92	+1.54	+1.04	+0.69	+0.20	-0.18	-0.45	-0.67	-0.92	-1.21
October	26.12	-1.52	-1.73	-1.86	-1.94	-2.05	-2.18	-1.74	+0.14	+1.33	+1.67	+1.92	+2.14	+2.13	+2.26	+2.00	+1.71	+1.28	+0.59	-0.04	-0.50	-0.57	-0.84	-1.03	-1.19
November	26.18	-1.57	-1.77	-1.96	-2.07	-2.22	-2.24	-1.54	+0.59	+1.49	+1.79	+1.76	+1.68	+1.88	+2.12	+1.85	+1.61	+1.30	+0.91	+0.36	-0.11	-0.58	-0.88	-1.08	-1.31
December	26.25	-1.37	-1.69	-1.89	-1.90	-2.03	-2.09	-1.23	+0.06	+1.04	+1.69	+1.81	+1.97	+1.97	+1.73	+1.80	+1.40	+1.04	+0.78	+0.43	+0.08	-0.44	-0.81	-0.99	-1.26
Year	26.48	-1.50	-1.68	-1.84	-1.96	-2.05	-2.10	-1.79	-0.48	+0.93	+1.74	+2.03	+2.09	+2.17	+2.18	+2.02	+1.69	+1.32	+0.84	+0.38	-0.22	-0.55	-0.87	-1.07	-1.29
Wet Season 1941-42	27.17	-1.47	-1.64	-1.82	-1.96	-2.11	-2.14	-1.65	-0.02	+1.03	+1.66	+1.86	+1.88	+1.85	+1.87	+1.83	+1.58	+1.33	+0.95	+0.49	-0.02	-0.42	-0.78	-1.04	-1.25
Dry Season 1942	26.29	-1.50	-1.67	-1.81	-1.95	-2.00	-2.05	-1.95	-1.00	+0.64	+1.77	+2.27	+2.34	+2.48	+2.47	+2.22	+1.75	+1.32	+0.73	+0.36	-0.39	-0.65	-0.95	-1.[illegible]	-1.31

FOURIER COEFFICIENTS: BAROMETRIC PRESSURE AND TEMPERATURE, 1942

Values of P_n and A_n in the series $\Sigma P_n \sin(15nt+A_n)$, t being Zone Time (11h 00m slow on Greenwich) expressed in hours from midnight.

Period	P_1	A_1	P_2	A_2	P_3	A_3	P_4	A_4
				Barometric Pressure				
	mb	°	mb	°	mb	°	mb	°
Wet Season 1941-42	0.45	30	1.03	145	0.09	98	0.05	341
Dry Season 1942	0.48	10	1.08	152	0.16	341	0.07	251
Y e a r 1942	0.42	15	1.09	145	0.07	17	0.04	283
				Temperature				
	°C	°	°C	°	°C	°	°C	°
Wet Season 1941-42	2.01	237	0.45	108	0.35	11	0.16	253
Dry Season 1942	2.24	237	0.68	76	0.24	338	0.18	196
Y e a r 1942	2.12	237	0.54	89	0.28	360	0.16	224

RELATIVE HUMIDITY, 1942

Percentages at exact even hours

Hour	2	4	6	8	10	noon	14	16	18	20	22	24	Mean
Month													
January	86	86	86	83	77	78	78	78	80	83	86	86	82
February	89	89	89	87	81	80	81	81	82	87	89	89	85
March	87	87	86	85	80	78	77	78	81	84	86	86	83
April	89	89	89	86	76	77	78	79	81	87	87	89	84
May	87	88	88	86	76	74	75	76	79	85	87	87	82
June	86	86	86	85	77	75	76	76	79	83	85	86	82
July	82	82	82	79	70	70	70	71	75	79	80	82	77
August	79	80	80	78	72	72	71	74	76	77	80	80	77
September	84	84	83	80	75	75	75	76	78	80	82	83	79
October	84	84	84	78	75	75	75	76	78	81	82	83	80
November	84	84	84	79	77	78	77	77	79	82	83	85	81
December	84	84	85	80	77	77	79	79	81	83	84	85	81
Year	85.1	85.2	85.2	82.2	76.1	75.7	76.0	76.7	79.1	82.6	84.3	85.1	81.1
Wet Season 1941-42	86.5	87.0	86.5	82.0	77.7	77.7	78.7	78.7	81.0	83.5	86.3	86.5	82.7
Dry Season 1942	83.5	84.0	84.0	82.0	73.7	72.7	73.0	74.3	77.3	81.0	83.0	83.7	79.5

VAPOUR PRESSURE, 1942

Mean values in millibars at exact even hours

Hour	2	4	6	8	10	noon	14	16	18	20	22	24	Mean
Month													
January	28.6	28.2	27.6	29.9	30.9	31.4	31.4	31.3	31.0	30.5	30.0	29.3	29.9
February	29.9	29.2	29.1	30.9	32.2	32.6	32.5	32.0	31.8	31.5	31.0	30.4	30.9
March	28.0	27.2	26.7	28.8	31.5	31.8	31.4	31.7	30.5	29.5	29.0	28.2	29.5
April	27.4	27.0	26.8	28.4	29.8	30.1	30.9	30.1	29.6	29.5	28.3	28.1	28.9
May	27.1	26.8	26.7	28.2	30.2	30.0	30.8	30.4	29.5	29.0	28.4	27.7	28.7
June	27.4	26.9	26.6	28.0	29.6	30.1	30.5	29.5	29.1	28.4	28.2	28.1	28.8
July	24.3	23.9	23.0	24.2	25.7	26.5	26.7	25.8	25.6	25.6	25.1	25.1	25.3
August	24.9	24.8	24.6	25.5	26.6	27.7	27.6	27.1	26.3	25.5	25.7	25.3	26.1
September	25.7	25.3	25.1	26.5	27.7	28.2	28.5	28.0	27.4	26.6	26.6	26.0	26.7
October	25.7	25.4	25.0	26.6	28.0	28.8	29.0	28.5	27.4	26.9	26.5	26.2	27.2
November	25.7	25.4	25.0	27.8	29.1	29.2	29.6	28.7	28.4	27.6	26.8	26.7	27.5
December	25.9	25.6	25.6	27.4	29.0	29.4	29.8	29.3	29.0	28.5	27.4	27.0	27.6
Year	26.6	26.2	26.1	27.7	29.2	29.5	29.9	29.3	28.7	28.2	27.4	27.4	28.1
Wet Season 1941-42	28.3	27.9	27.5	29.5	30.8	31.2	31.2	31.1	30.9	30.1	29.6	28.9	29.9
Dry Season 1942	25.9	25.6	25.5	26.5	27.9	28.5	28.9	28.1	27.6	27.1	26.9	26.5	27.2

RAINFALL AT APIA OBSERVATORY - 1942

Month	Number of Days on which stated Amounts of Precipitation were recorded (Amount of rain in millimetres)					Total Rain Days	Total Rain-fall	Greatest Amount in 24 hours		Greatest Amount in one hour		
	0.2 - 0.9	1.0 - 9.9	10.0 - 24.9	25.0 - 99.9	100 and over		mm.	mm.	Date	mm.	Date	Time
January	2	6	9	2	0	19	247.0	50.8	31st.	17.9	21st.	9-10 p.m.
February	3	9	3	5	0	20	338.5	93.5	12th.	33.5	12th.	5- 6 p.m.
March	2	8	5	2	0	17	212.1	59.5	29th.	40.9	29th.	9-10 p.m.
April	1	5	2	4	0	12	210.8	49.8	15th.	27.8	9th.	5- 6 p.m.
May	4	3	3	1	0	11	116.6	64.0	3rd.	51.7	4th.	8- 9 a.m.
June	1	6	1	3	0	11	147.7	42.8	18th.	26.8	19th.	6- 7 a.m.
July	2	6	2	2	0	12	163.3	56.0	25th.	41.0	25th.	9-10 a.m.
August	1	9	2	0	0	12	68.0	18.8	18th.	8.9	3rd.	4- 5 p.m.
September	6	7	2	3	0	18	178.0	55.7	18th.	X	18th.	
October	3	7	2	4	0	16	275.5	77.0	20th.	24.6	31st.	5- 6 a.m.
November	3	10	2	3	0	18	242.3	60.4	7th.	27.2	7th.	10-11 a.m.
December	2	11	5	4	1	23	521.5	146.2	22nd.	30.7	25th.	8- 9 a.m.
Y e a r	3(	87	38	33	1	189	2721.3	146.2	22nd. Dec.	51.7	4th. May	8- 9 a.m.

NOTE: (1) Rainfall is measured at 9.0 a.m. and entered to the previous day. Greatest amounts for one hour are entered to the date on which the fall actually occurred.

(2) X Recording rain-gauge failed during heavy rain.

RAINFALL IN SAMOA, 1942

(Expressed in inches)

Station	Elevation (feet)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	Authority
UPOLU															
Alafua	185	16.27	23.69	6.10	10.93	4.75	6.51	5.43	1.88	7.80	12.27	9.57	28.11	133.31	Mr. M.R. Mecham
Aleisa	910	23.75													N.Z. Reparation Estates
Casala	700	12.24	16.21	20.13	11.69	7.04	1.41	4.71	2.71						Mr. P.L.M. Morgan
Lotofaga	40	14.50	14.70	21.74	19.74	14.68	12.41	11.36	5.06	18.28	12.33	12.77	11.07	168.64	Rev. Father Beauchemin
Magia	215	10.76	16.29	13.13											Mr. G. Miedecke
Mulifanua	14	6.88	11.04	9.58	6.28	2.18	6.98	5.36	0.60	4.28	6.34	7.10	11.20	77.82	N.Z. Reparation Estates
Mulinu'u	5	9.73	13.33	8.35	8.30	4.59	5.79	6.43	2.68	7.01	10.85	9.54	20.53	107.13	The Observatory
Mulivai	6		19.31	14.63	4.89										Rev. Father Gaucher
Piula	65	12.87	17.92	13.10	6.27	5.85	8.69	7.29	6.69	9.88	15.76	13.85	27.60	145.77	Rev. N.G. Pardey
Samatau	10	12.13	15.85	25.59	11.19	12.34									The Observatory
Satapuala									1.60	4.80	7.64	7.02	15.06		U.S. Marine Corps
Tafa'igata	550	10.97	18.02	5.77		4.96	4.63	6.78							N.Z. Reparation Estates
Tuanai'mato	105	14.60	18.96	6.25	8.83	4.25	4.47	6.32	1.88	7.24	11.51	8.96	19.41	112.68	N.Z. Reparation Estates
Vailele	25	11.90	16.05									10.84	25.71		N.Z. Reparation Estates
Vailima	616	12.35	19.71	6.10	10.79	3.89	3.10	5.39	2.36	9.03	9.78	9.47	27.30	119.27	Government House, Vailima
Vaipapa	720	16.57	23.60	19.50	12.56	6.59	7.96	4.78	1.71	7.85	11.24	8.90	19.32	140.58	N.Z. Reparation Estates
Vaipoto	400	15.33	16.30	6.43	13.08	6.00	4.94	8.42	1.94	13.51	14.92	11.39	23.66	135.92	Mr. A.R. Coborcft
Vaitele	20	10.01	12.79	7.03	5.81	3.74	4.83	5.38	2.08	7.48	9.77	7.16	17.59	93.67	N.Z. Reparation Estates
Savai'i															
Fagamalo	8	10.54	19.18	10.50	13.75	1.67	12.24	8.18	4.23	12.38	5.78	18.90	11.93	129.28	The Wireless Operator
Falealupo	8	11.44	13.38	6.63	4.16	1.58	1.85	3.28	2.39	7.09	1.10	6.78	12.26	71.94	Rev. Father Bourke
Gagaemalae				3.63	6.41	6.62	13.97	3.58	3.99	15.25	12.74	13.13			Tolo Laupu'e
Tuasivi	25	9.86	13.51	6.73	12.90	4.03	4.34	4.53	2.23	8.83	9.40	9.18	7.34	92.88	The Resident Commissioner
Vaipouli	210	13.29	24.95	10.67	13.39	3.04	5.61	4.98	4.21	7.30	8.65	14.13			The Superintendent of Schools
Tutuila (Am.) (Samoa)															
Pago Pago (X)		14.82	17.06	26.08	19.11	9.10	5.94	9.16	7.98	10.24	8.17	8.77	21.58	158.01	U.S. Naval Station.

NOTE:
(1) The rim of the gauge is generally at a height of one or two feet above the ground.
(2) Most of the gauges in use are of the Meteorological Office (London) pattern with a deep funnel five inches in diameter. A tapered glass measure reading in inches is used.
(3) Some of the sites are not strictly conventional owing to the profuse growth of vegetation, i.e. surrounding objects may be nearer the gauge than twice their own height.
(4) The readings of the rain gauges at many of the stations given in this table are made in the morning and entered "thrown back" to the previous day while at other stations the readings are entered to the same day.
(5) X There was a change of exposure at Pago Pago on June 6th. 1942. The site of the gauge up to that date was at the Radio Station. After June 6th. measurements were made at the Naval Air Station, Tafuna.

DURATION OF BRIGHT SUNSHINE, 1942

Aggregate duration of bright sunshine occurring between the exact hours of apparent solar time and the percentage of possible duration of sunshine for the month.

Hour of day	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	Totals	%
Month																
January	1.6	14.3	18.8	19.8	22.5	22.5	22.1	20.3	18.9	17.9	16.3	11.1	7.6	1.5	215.2	54
February	0.5	7.9	14.6	16.0	18.5	20.7	17.6	16.0	12.8	12.7	10.5	8.0	4.5	0.7	161.0	46
March	0.0	9.5	16.7	22.2	21.6	21.1	20.0	16.9	17.0	17.6	15.0	12.4	6.3	0.0	196.3	52
April	0.0	10.0	20.4	21.2	23.3	20.9	18.6	21.5	20.8	18.6	15.9	12.4	6.9	0.0	210.5	60
May	0.0	7.6	21.3	25.1	26.7	27.7	26.7	28.0	25.2	22.6	21.1	16.5	7.3	0.0	255.8	72
June	0.0	6.3	20.0	22.4	21.7	23.8	22.8	24.1	22.6	19.2	17.5	15.2	5.0	0.0	220.6	65
July	0.0	6.8	19.9	23.2	25.7	25.0	23.3	24.6	23.8	21.6	20.2	14.0	4.9	0.0	232.0	66
August	0.0	6.6	21.5	22.9	25.9	25.7	26.9	26.2	25.7	20.0	17.0	17.9	5.7	0.0	242.0	67
September	0.0	9.9	21.4	19.6	23.8	18.7	18.0	18.6	18.4	18.2	17.5	12.8	4.2	0.0	200.1	55
October	0.1	15.9	21.6	26.3	24.0	22.4	23.4	24.6	21.5	17.5	15.5	14.1	10.2	0.4	237.5	62
November	0.7	16.4	23.9	21.2	19.5	20.7	19.6	19.6	17.2	15.3	15.3	13.1	10.0	1.5	214.0	56
December	0.4	12.6	16.7	18.8	20.5	20.8	23.4	19.2	14.6	13.4	12.7	11.4	9.3	0.6	194.4	48
Totals	3.3	123.8	236.8	259.3	272.7	270.0	262.4	258.7	238.5	213.6	194.5	158.9	81.9	4.7	2579.4	60

ANALYSIS OF SUNSHINE, 1942

Clear Days - more than 7 hours bright sunshine

Cloudy Days - less than 3 hours bright sunshine

Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
Clear	18	11	15	16	23	20	20	21	15	16	15	16	206
Partly Cloudy	8	11	8	11	6	5	8	7	8	12	11	5	100
Cloudy	5	6	8	3	2	5	3	3	7	3	4	10	59

WIND, 1942

Means of Hourly Values of Wind Speed in Miles per hour

Hour	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
M o n t h																									
January	4.7	4.1	4.5	4.3	3.6	3.4	2.9	2.8	3.3	4.6	6.2	7.7	7.7	8.2	8.0	8.2	8.0	7.3	5.3	4.9	4.3	4.3	4.2	4.1	5.3
February	4.4	5.0	4.3	3.8	4.5	4.7	4.1	3.6	3.9	5.1	6.6	8.3	8.0	6.9	7.4	6.4	5.9	5.9	5.2	4.3	3.3	3.6	3.8	3.9	5.1
March	3.9	3.4	3.7	3.6	3.9	3.7	3.8	4.0	5.5	9.0	10.1	10.3	10.7	9.7	9.9	10.2	9.6	9.9	7.8	5.8	4.7	4.9	4.7	4.0	6.5
April	2.9	3.0	2.8	2.9	2.9	3.3	3.0	2.6	3.4	5.2	7.2	8.6	8.2	7.7	8.2	6.9	6.4	5.2	3.8	2.5	2.5	2.7	2.7	2.8	4.5
May	3.1	3.1	2.9	3.1	3.1	3.1	2.9	2.8	3.6	5.9	7.5	8.5	9.0	9.5	9.6	9.5	8.9	8.8	7.4	3.4	2.5	3.3	3.1	3.2	5.3
June	6.5	6.5	6.4	5.8	5.7	5.6	6.1	5.3	5.7	8.2	10.7	12.2	11.9	12.4	12.9	12.2	10.7	10.6	9.5	8.0	8.0	8.2	7.6	7.0	8.5
July	6.7	6.1	6.3	5.5	5.8	5.5	6.2	5.9	6.7	9.9	12.1	12.9	12.9	13.5	12.9	12.9	12.4	10.9	9.9	7.9	7.7	7.4	7.9	6.5	8.8
August	8.9	8.9	9.6	9.5	8.3	8.5	8.0	8.5	10.5	13.5	16.6	17.8	18.5	18.7	18.5	18.2	16.9	15.3	13.3	9.5	8.0	8.8	8.7	8.4	2.1
September	5.0	5.9	5.3	5.4	5.7	5.4	5.5	5.5	8.3	11.8	13.0	13.3	13.6	13.4	13.3	12.7	12.2	9.6	9.0	6.0	5.9	5.8	6.1	6.2	8.5
October	4.5	4.2	3.6	3.9	4.2	4.1	3.9	4.8	8.2	9.7	10.9	12.1	12.1	12.4	12.2	11.8	10.8	9.9	8.3	5.7	5.5	4.5	4.3	5.1	7.4
November	3.0	3.3	3.5	3.1	3.4	3.2	3.3	3.6	5.8	8.4	9.0	9.8	8.9	8.4	9.5	9.0	8.1	6.3	5.5	3.7	3.0	3.0	3.0	3.2	5.5
December	4.3	3.3	4.6	5.0	4.8	4.3	4.2	4.4	7.7	10.3	10.4	11.8	12.3	12.4	10.6	10.2	9.9	10.8	9.9	7.8	6.3	5.5	5.7	5.3	7.5
Y e a r	4.8	4.7	4.8	4.7	4.7	4.6	4.5	4.5	6.1	8.5	10.0	11.1	11.1	11.1	11.1	10.7	10.0	9.2	7.8	5.8	5.1	5.2	5.1	5.0	7.1
Wet Season 1941-42	4.6	4.6	4.1	4.1	4.0	4.5	4.2	4.8	6.0	7.8	9.5	11.1	11.3	11.1	11.3	10.8	10.1	9.5	7.9	6.4	5.1	4.8	5.1	5.0	7.0
Dry Season 1942	6.3	6.2	6.3	6.0	5.7	5.7	5.8	5.6	6.6	9.4	11.7	12.9	13.1	13.5	13.5	13.2	12.2	11.4	10.0	7.2	6.5	6.9	6.8	6.3	8.7

PERCENTAGE FREQUENCIES OF WINDS, 1942

(This table is based on observations every three hours commencing at midnight)

Month	Calm	N	NE	E	SE	S	SW	W	NW	Variable	Number of observations
January	2	9	6	13	7	22	16	12	11	2	248
February	7	8	10	7	10	21	18	8	9	2	224
March	1	1	9	29	26	24	8	1	1	0	246
April	3	3	9	21	15	29	16	2	2	0	240
May	4	2	11	26	13	27	15	2	0+	0	248
June	2	0+	6	38	22	21	10	0	1	0	240
July	3	1	7	32	27	18	11	1	0+	0	248
August	1	0	2	51	28	14	3	0	1	0	248
September	1	4	7	37	25	14	8	1	3	0+	240
October	2	3	6	33	25	16	8	3	3	1	248
November	1	6	11	21	17	24	15	2	2	1	240
December	1	5	8	30	22	20	10	2	2	0+	244
Y e a r	2	3	8	28	20	21	11	3	3	1	2914

NOTE: 0+ means that there were some observations but less than 0.5%.

MONTHLY WIND SPEED AND DIRECTION, 1942

Speed in miles per hour

Month		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
Mean speed for month		5.3	5.1	6.5	4.5	5.3	8.5	8.8	12.1	8.5	7.4	5.5	7.5	7.1
Greatest speed in Gust		35	43	42	45	32	50	51	47	47	44	33	38	51
Direction of Gust		NNW	ESE	E	ENE	ENE	E	ESE	ESE	E	ESE	E	NE	ESE
Greatest speed for one hourly period		22	28	23	29	23	29	29	31	27	26	28	26	31
Prevailing direction of Wind	9 a.m.	CALM	CALM	ESE	ESE	CALM	ESE	ESE	ESE	ESE	E	E	E	ESE
	3 p.m.	NW	NW	E	E	E	E	E	E	E	E	E	E	E
Most frequent direction of Wind (Eight points only).		S	S	E	S	S	E	E	E	E	E	S	E	E

THUNDER AND LIGHTNING, 1942

Month	Number of days with Lightning only	Lightning and Thunder	Total
January	11	7	18
February	3	9	12
March	5	20	25
April	2	10	12
May	10	4	14
June	6	2	8
July	2	1	3
August	4	3	7
September	3	5	8
October	8	4	12
November	4	6	10
December	4	9	13
Year	62	80	142

Pilot Balloon Ascents 1942

The usual method of observing the balloon with a single theodolite was used during 1942, assuming a constant rate of ascent calculated from the formula.

$$V = qL^{\frac{1}{2}}/(L+W)^{\frac{1}{3}}$$

where

V = rate of ascent in feet per minute
q = 275
L = free lift in grams
W = weight of balloon in grams.

The rate of ascent (V) used normally was 500 feet per minute.

The surface winds are taken from the anemometer, the vane of which is at a height of 80 feet above the ground.

The measurements are expressed in the form recommended in Resolutions LIV and LVII of the Commission for Synoptic Weather Information at Salzburg, September 1937. (O.M.I. Publication No. 37, pages 53 and 57). Values have also been given at the additional heights recommended in Resolution XXXIX of the Meteorological Conference for the Southwest Pacific, 1937 (O.M.I. Publication No. 42, page 37).

Details of the form are as follows:

YYGG $HHddv_5$ $HHddv_5$ ----- ----- C_LC_MHHM

where

YY = Greenwich day of month; GG hour of Greenwich time

HH = The height in hectametres of the centre of a layer about 300 metres thick. When the height of the balloon was above 9900 metres the hundreds digit of the code figure for HH was dropped. (e.g. when the height was 10000 metres HH was given as 00). In the original computations the heights are expressed in feet and hence a certain approximation is made when converting to metres. The order of this approximation is shown in the annual report for 1941.

dd = direction of wind using 36 points; thus 270° is expressed as 27.

v_5 = average wind velocity in the layer expressed in code (see below)

C_LC_M = usual information about clouds

M = reason for the ending of the observation (see below)

Code for V_5 in miles per hour.

dd = 01 - 36		dd = 51 - 86	
V_5	m.p.h.	V_5	m.p.h.
0	0- 1	0	30-32
1	2- 4	1	33-35
2	5- 7	2	36-38
3	8-10	3	39-41
4	11-14	4	42-45
5	15-17	5	46-48
6	18-20	6	49-51
7	21-23	7	52-54
8	24-26	8	55-57
9	27-29	9	58-60

i.e. if the wind is equal to or greater than 30 miles per hour then 50 is added to dd and the code on the right above is used for V_5.

Code for M in last group

0 = observation abandoned
1 = obscured by passing clouds
2 = balloon burst
3 = lost in haze
4 = lost near the sun
5 = entered cloud layer
6 = lost accidentally
7 = obscured by rain
8 = confused with star
9 = for use when none of the above apply.

January

0109 00171 02123 05105 10083 20212 30182 40251
47021 23539
0122 00083 02073 05074 10082 20161 30126 40125
50093 60097 26620
0209 00141 02123 05093 10072 20111 27192 20299
0222 00095 02096 05092 10114 17162 86185
0309 00161 02123 05115 10095 20084 24084 33261
0322 00095 02095 05105 10106 20094 20242
0409 00095 02096 05098 10089 20075 36233
0422 00096 02086 05103 10162 18124 33232
0509 00181 02131 05132 10122 20112 30115 40094
10469
0522 00323 02333 05342 10131 20105 30115 40124
50094 60123 24619
0609 00191 02191 05032 10330 20042 80261
0622 00061 02082 05092 10281 20282 30304 40284
50284 60273 87642
0722 00012 02343 05343 10314 20337 27317 20292

January (Contd.)

0809	00345	02344	31055				
0822	00335	02337	05319	87085			
0922	00264	02267	05276	10285	20283	80265	
1009	00282	02222	05204	10244	80121		
1022	00022	02034	05032	10202	20254	30249	40315
1109	00181	02132	05102	10311	14272	43152	
1122	00361	02012	05192	10193	15285	10181	
1209	00171	02132	05122	10176	20259	25285	30256
	40381						
1222	00082	02073	05072	10073	20051	24077	10279
1309	00201	02xxx	05072	10342	20042	30044	10358
1322	00031	02011	05361	10334	20285	20352	
1408	00041	02022	05022	10363	15334	50175	
1422	00312	02313	05335	10325	20325	20353	46215
1508	00211	02231	05312	10292	15262	40185	
1522	00083	02084	05074	10061	20274	80235	
1609	00181	02211	05321	10013	20211	30312	40312
	40499						
1622	00002	02362	05344	10344	20362	30353	96325
1709	00191	02211	05272	10312	20331	26353	30354
	40365	12415					
1722	00062	02074	05074	10331	20313	30296	40296
	49316	27505					
1809	00181	02101	05024	10353	50145		
1822	00332	02334	05333	10334	20288	27258	87295
1909	00271	02292	50035				
1922	00274	02277	05256	10275	20255	20211	
2009	00262	02243	05255	10284	20295	30287	35289
	50379						
2022	00314	02304	05254	30082			
2023	00313	02293	05273	10234	20286	30288	40287
	20439						
2109	00201	02232	05273	10285	15287	50178	
2122	00061	02051	05050	10313	20305	30308	39309
	40409						
2222	00301	02312	05312	10353	20344	30351	40324
	50315	26581					
2309	00201	02251	05012	10012	20362	32231	
2322	00102	02122	05122	10104	36145		
2409	00181	02xx1	05041	10084	5x129		
2422	00092	02083	05094	08095	80092		
2509	00190	02151	05093	10104	20103	80229	
2522	00360	02331	05351	10092	15042	87175	
2609	00171	02123	05112	10151	15272	20332	30351
	10349						
2622	00353	02333	05303	10272	20252	30313	37312
	83382						
2709	00142	02131	05331	10343	20303	83245	
2722	00031	02362	05362	10273	20284	30272	83359
2822	00361	02351	05354	10177	62127		
2922	00293	02283	05264	10254	20264	24269	29274
	80309						

January (Contd.)

3009 00000 02111 05082 10292 80155
3022 00351 02353 05343 09352 62112
3109 00231 02212 05274 10305 81145
3122 00000 02342 05344 10326 20356 30318 86325

February

0109 00161 02141 05344 10338 9x145
0122 00091 02101 05361 10282 10122
0222 00111 02102 05041 10112 20065 30094 27384
0309 00201 02241 05310 10041 15073 23205
0322 00014 02355 05354 10034 52155
0409 00181 02151 05361 10033 20031 24072 23269
0422 02052 05051 10062 20073 30074 40074 50075
60076 23642
0509 00191 02231 05331 10120 20094 30114 40388
0522 00021 02042 05083 10112 20115 30094 40133
50107 60107 70115 20769
0609 00180 02181 05331 10114 20097 00239
0622 00092 02084 05102 10153 20134 30114 40096
50095 60105 70076 80114 20822
0709 00190 02111 05114 10113 20103 30061 40389
0722 00072 02073 05083 10112 20123 30093 40091
25482
0810 00201 02211 05030 10123 20152 30231 40378
0822 00072 02092 05093 10112 20132 30181 40212
27432
0909 00131 02082 05071 10061 20222 30193 50379
0922 00320 02352 05363 10302 20131 30154 40251
20411
1009 00191 02242 05252 10252 20242 44259
1022 00042 02033 05043 10132 14351 80155
1109 00191 02191 05343 10343 20362 30314 40323
44469
1122 00343 02333 05292 10263 20306 27326 20292
1209 00151 02122 05112 10xx1 14312 36159
1222 00052 02042 05042 10333 20293 24286 27262
1309 00233 02273 05314 10304 52125
1322 00305 02309 05800 10800 46125
1409 00221 02282 05292 08243 47095
1422 00111 02162 05224 10225 20266 30751 20351
1509 00000 02212 05223 10254 20265 30226 40234
46233 44493
1522 00332 02333 05313 08252 40092
1609 00181 02120 05102 10241 20243 25181 30142
50352
1622 00350 02042 05074 10102 20114 30094 20352
1709 00191 02201 05112 10123 20114 30094 40321
1719 00072 02072 05083 10124 20107 20242
1809 00191 02000 05000 10095 20095 23075 40241
1822 00107 02601 05108 41085
1909 00103 02116 05108 10099 18099 31205

February (Contd.)

1922	00292	02341	05114	10135	20128	30108	40600
	44109	20473					
2009	00112	02082	05361	10144	20124	62185	
2022	00000	02263	05283	10185	20174	23152	62245
2109	00201	02261	05301	10174	20193	30238	
2122	00182	02173	05184	10195	20214	30214	40203
	50214	20529					
2209	00131	02162	05142	10174	20132	25182	10262
2222	00022	02042	05193	10176	15152	10192	
2309	00191	02301	05311	10153	20182	20326	
2322	00313	02314	05313	08332	57115		
2409	00000	02262	05274	10305	20306	29305	10309
2501	00000	02273	05277	10790	14814	52155	
2509	00202	02233	05293	10307	17155		
2522	00313	02304	05315	84085			
2622	00071	02081	05015	09357	62115		
2709	00014	02026	05025	62085			
2722	00307	02027	05018	10359	62155		
2822	00064	02075	05056	10029	17532	93295	

March

0109	00131	02093	05055	10057	40125		
0122	00063	02065	05055	10046	15047	46175	
0210	00075	02056	05056	10046	17034	20034	20232
0222	00064	02055	05045	67065			
0309	00000	02061	05054	10034	20066	24065	33273
0322	00091	02052	05053	10063	20093	30114	40127
	50117	60590	70096	24791			
0409	00181	02132	05102	10105	20095	30086	13343
0422	00401	02072	05084	10103	20085	30077	40097
	20442						
0509	00181	02112	05104	10114	20124	27136	13299
0522	00805	02086	05097	10116	20116	27113	30292
0609	00181	02133	05125	10106	18106	40209	
0622	00086	02099	05108	10118	14115	34152	
0709	00131	02124	05105	10096	20086	30211	
0723	00115	02107	05108	10106	20096	26094	33275
0809	00131	02115	05106	10096	20095	29116	50309
0822	00093	02094	05095	10094	20064	30093	40112
	50163	20549					
0909	00094	02105	05124	10102	50145		
0922	00091	02093	05074	10046	20066	27053	84295
1009	00151	02123	05084	10033	20014	42215	
1022	00083	02084	05085	10084	20053	30044	33345
1109	00181	02124	05105	10115	20114	30104	20389
1122	00093	02095	05094	10086	20064	30035	40056
	47035	20502					
1209	00191	02124	05095	10124	20133	30083	20349
1222	00096	02087	05097	10115	20104	30074	37045
	20382						

March (Contd.)

1309	00141	02114	05106	10105	20114	40269	
1322	00084	02076	05095	10114	20124	30135	40113
	50104	60064	66073	20672			
1409	00181	02122	05115	10124	20124	30134	40134
	47152	40499					
1422	00098	02097	05107	10119	20107	30107	33106
	24359						
1509	00123	02125	05117	10119	20125	30124	38135
	40419						
1521	00096	02096	05105	10105	20094	30134	23351
1609	00211	02162	05122	10132	20082	30082	40389
1622	00095	02105	05117	10095	20093	24235	
1709	00182	02171	05052	10032	15092	10179	
1722	00093	02094	05094	64081			
1809	00191	02132	05103	10104	15095	40182	
1822	00095	02087	05095	10144	20135	30125	40092
	46261	50152	60142	20612			
1909	00000	02113	05083	10093	50141		
1922	00073	02074	05074	10092	20122	30041	35021
	27375						
2010	00162	02123	05084	10076	20104	40211	
2022	00105	02126	05136	10104	20125	30104	40094
	57445						
2109	00131	02101	05121	10124	20103	10239	
2122	00096	02106	05106	10124	20126	23232	
2209	00131	02117	05119	10109	15096	20085	25106
	30279						
2223	00000	02105	05117	10118	12116	62131	
2309	00163	02124	05084	10054	20354	24242	
2322	00106	02107	05096	10095	20192	25215	
2409	00111	02124	05108	10087	15087	32171	
2422	00095	02107	05134	10135	20105	30104	24325
2519	00132	02135	05154	10105	20094	30032	40045
	48048	22495					
2601	00104	02122	05151	10106	20096	30075	40064
	42412						
2609	00211	02113	05125	07106	20099		
2709	00191	02104	05096	10095	20083	27073	24288
2810	00132	02091	05051	67065			
2822	00321	02321	05323	52085			
2909	00133	02114	05311	10292	84129		
2923	00270	02272	05343	10344	4x122		
3022	00132	02062	05054	10014	20344	44212	
3110	00171	02081	05033	09363	36102		
3122	00090	02310	05291	10011	20044	52245	

April

0109	00111	02104	05103	10073	36119		
0122	00083	02084	05105	10103	20084	30074	53323
0210	00191	02141	05143	10124	20083	23229	
0222	00096	02097	05096	10114	20104	27094	23292

April (Contd).

0309	00191	02123	05125	10115	20113	23222	
0323	00105	02105	05125	10119	18118	83205	
0409	00104	02115	05136	10114	20144		
0422	00084	02085	05097	10073	15074	34172	
0509	00290	02251	05091	10341	15322	36165	
0522	00141	02132	05162	09133	52102		
0609	00201	02121	05103	10082	20092	50275	
0622	00301	02271	05282	10305	26142		
0722	00061	02062	05042	09352	40115		
0809	00191	02090	05341	10313	12304	40135	
0822	00051	02063	05042	10xx1	20263	30288	38802
	20409						
0909	00190	02082	05051	08081	40092		
0922	00123	02094	05075	10074	83125		
1009	00180	02102	05073	10351	40122		
1022	00312	02323	05323	10315	14305	40155	
1109	00200	02081	05081	07141	40092		
1122	00052	02062	05062	09231	44115		
1209	00191	02114	05115	10126	41129		
1222	00103	02085	05101	10143	14144	20153	
1309	00000	02104	05114	09124	10102		
1322	00083	02084	05093	10112	46155		
1409	00000	02081	05111	10123	20111	29124	20309
1420	00190	02101	05062	10062	20052	30064	26352
1509	00161	02114	05083	10032	20052	30032	50349
1522	00132	02094	05064	62067			
1609	00191	02112	05092	10053	20113	30123	40073
	51465						
1622	00096	02095	05103	10114	20115	30114	40123
	44133	29461					
1709	00191	02142	05117	10118	20126	30145	20329
1719	00190	02152	05134	10124	20135	30112	40146
	27415						
1809	00141	02112	05123	10126	30141		
1822	00000	02031	05091	10172	20051	30342	40304
	50294	60275	62277	20649			
1909	00151	02111	05041	10222	20273	30293	34315
	10359						
1921	00300	02331	05021	10164	20262	30315	38308
	42284	50274	60263	70162	80202	90313	00317
	10821	20329	10242				
2009	00201	02151	05031	10121	15262	40179	
2022	00340	02012	05011	10171	15204	20174	
2109	00212	02194	05194	10192	20215	30233	40232
	40439						
2122	00192	02232	05223	10233	20245	30255	40258
	47268	40499					
2209	00201	02213	05241	10221	20244	30256	40252
	50242	40539					
2222	00070	02061	05062	10162	90145		
2309	00191	02112	05032	10174	20153	30294	40275
	43xx8						

April (Contd.)

2322	00081	02042	05032	10230	20231	24251	80265
2409	00181	02231	05301	10131	15152	83175	
2422	00021	02042	05062	10091	20011	30082	40084
	80449						
2509	00181	02112	05072	10031	20352	20212	
2522	00092	02083	05074	10054	14044	80155	
2609	00181	02123	05094	10062	20043	30041	40032
	50021	20529					
2621	00094	02096	05107	10105	20094	30093	40022
	50113	60361	70273	10760			
2709	00181	02113	05094	10074	20054	10269	
2722	00084	02094	05103	10103	20084	30054	40055
	50044	55044	24569				
2808	00150	02114	05116	10105	20095	29064	20379
2822	00107	02107	05108	10099	15594	20364	27354
	9x295						
2909	00104	02106	05098	10077	15087	20075	26249
2922	00084	02086	05086	10077	57125		
3009	00032	02053	05024	10024	26122		
3022	00093	02083	05084	10064	53125		

May

0109	00120	02122	05082	10052	15101	20111	25360
	30012	43359					
0122	00352	02342	05331	10252	20221	27032	20292
0209	00191	02231	05301	10282	15241	20181	30061
	10349						
0223	00341	02322	05361	10090	20141	30052	40024
	50354	60026	70366	20760			
0309	00180	02000	06081	10152	20231	30052	40034
	53412						
0322	00093	02104	05095	10083	20053	23212	
0422	00134	02116	05097	10064	20015	30336	40339
	27445						
0509	00221	02191	05123	10133	20084	51271	
0522	00312	02302	05111	10133	20091	30363	40354
	46336	25472					
0609	00112	02115	05106	10085	18042	20219	
0622	00094	02094	05094	08073	23095		
0709	00181	02113	05094	10073	20054	24033	30053
	40023	43332	50443				
0722	00072	02093	05083	10062	20054	30054	40364
	44014	49354	44501				
0822	00112	02112	05083	10052	20052	30343	35365
	40353	27415					
0909	00191	02121	05083	10054	20131	40219	
0922	00000	02092	05102	10093	20121	30252	35264
	43324	24449					
1009	00181	02123	05105	10094	40122		
1022	00092	02103	05094	10084	20074	24064	80262

May (Contd.)

1110	00181 10358	02125	05115	10124	20083	25053	30064
1122	00106 23389	02106	05116	10096	20125	30095	37095
1222	00093 50072	02104 24529	05124	10106	20085	30076	40085
1309	00151	02134	05126	10108	40155		
1322	00098	02107	05126	10127	20126	27084	43292
1409	00132	02115	05106	10106	40151		
1422	00096 40055	02106 50134	05114 60113	10074 70152	20054 80233	30122 90226	34271 10940
1509	00181	02133	05133	10082	18092	10209	
1522	00095	02095	05105	10094	20065	26084	10272
1609	00180	02152	05124	10125	14105	20189	
1622	00095	02107	05110	10106	20097	20242	
1709	00181	02113	05116	10106	20124	24134	10279
1722	00085 26470	02106	05106	10095	20085	30134	40152
1809	00160 40194	02124 10449	05114	10082	20102	25133	30184
1822	00000	02051	05041	10162	20234	20232	
1909	00000	02000	05221	10222	40155		
1922	00042	02033	05331	10284	20255	24247	20262
2009	00181	02231	05292	10234	20283	30231	40379
2022	00051	02051	05071	10194	15233	43174	
2109	00181	02161	05131	10111	20252	30262	40262
2122	00092 50241	02094 60101	05084 70363	10085 24729	20203	30262	40241
2222	00030 50224	02062 23524	05113	10132	20234	30111	40264
2309	00181 13479	02133	05082	10151	20203	30232	40203
2321	00101 50192	02122 60042	05052 70316	10053 80805	20262 27875	30171	40172
2409	00181	02112	05092	10101	20162	73292	
2422	00103	02094	05103	10112	20114	24112	20262
2509	00191	02113	05104	10103	20085	25104	10309
2522	00081 50013	02092 60284	05112 70247	10093 80763	20056 20829	30102	40072
2609	00191	02301	05291	10101	10129		
2622	00330 20372	02312	05203	10154	20182	30002	35342
2709	00191	02112	05124	10115	15103	10171	
2722	00093 53295	02114 29552	05084	10056	20074	30313	40284
2809	00131	02112	03103	4x055			
2822	00094	02095	05085	10096	14074	40155	
2909	00162	02113	05084	08074	10095		
2922	00094	02095	05095	10074	20044	26075	10272
3009	00162	02113	05084	10064	20064	23044	20241
3022	00052	02053	05054	10035	15035	20175	
3109	00181	02112	05062	10112	20342	30354	20302
3122	00000 40312	02301 50172	05270 60234	10252 20672	20232	23331	30312

June

0109	00191	02061	05111	10090	15130	40189	
0122	00053	02054	05074	10072	20033	26012	23272
0209	00161	02123	05124	10134	20064	27054	10299
0222	00097	02107	05109	10075	14075	50155	
0309	00141	02103	05084	10085	15085	40185	
0322	00101	02104	05063	10064	20078	30077	22355
0409	00132	02113	04084	4x055			
0422	00094	02095	05095	10104	15084	20172	
0509	00181	02134	05115	10123	20094	26085	10272
0522	00097	02106	05107	10612	20104	20232	
0609	00191	02123	05125	10107	20106	30109	10349
0622	00097	02109	05115	10135	20129	30104	40105
	50076	10512					
0709	00131	02124	05116	14118	15115	20119	25613
	30134	40132	40439				
0722	00097	02600	05108	10118	20142		
0809	00105	02116	05107	4x026			
0822	00095	02106	05096	10095	23155		
0909	00201	02114	05108	10118	14108	40175	
0922	00096	02107	05107	10106	23155		
1009	00125	02116	05117	10079	15571	40209	
1022	00097	02107	62035				
1109	00108	02107	05108	40065			
1122	00098	02109	05601	10590	20098	30079	27365
1209	00076	02065	50055				
1222	00073	02074	05084	10056	14056	26152	
1309	00085	02086	05086	10065	50121		
1322	00101	02072	05053	10033	20025	20232	
1409	00073	02074	05073	40089			
1422	00092	02093	05103	10082	15052	10182	
1509	00181	02122	05082	10071	10149		
1522	00000	02092	05091	10173	15141	20051	30081
	40043	20432					
1609	00201	02121	05181	10131	15102	20122	25112
	10302						
1622	00085	02095	05104	10124	20113	30073	40093
	48063	20502					
1709	00191	02182	05162	10124	20124	23114	40248
1722	00105	02116	05137	10128	20108	24265	
1809	00112	02125	05117	10591	15592	51175	
1822	00095	02107	05128	10611	17591	24182	
2009	00105	02610	05610	51095			
2019	00125	02118	05600	10590	20087	30034	36323
	40315	50316	60329				
2122	00105	02105	05085	10056	20046	14201	
2209	00094	02095	05105	10114	20141		
2222	00093	02094	05094	10083	20043	30054	20372
2309	00201	02112	05114	10133	20112	10249	
2322	00180	02113	05115	10124	20124	30096	40113
	50143	60191	64103	24699			
2409	00201	02111	05113	10103	20103	20209	

June (Contd.)

2422	00072	02072	05021	10000	20141	30062	40093
	49232	24502					
2501	00072	02063	05053	10051	20071	30012	20345
2509	00190	02093	05094	40085			
2522	00081	02072	05051	10331	20182		
2622	00080	02061	05352	10333	57142		
2709	00191	02030	05352	10342	33149		
2722	00020	02031	05131	10041	20311	31232	24352
2809	00191	02231	05360	10311	44115		
2822	00082	02084	05084	10361	15322	20292	25263
	29262	96305					
2909	00190	02311	05311	10230	15090	50195	
2922	00095	02104	05141	10162	20152	30161	50341
3009	00151	02133	05161	10134	15062	16199	
3022	00000	02360	05000	10182	20111	30031	40351
	50441						

July

0109	00191	02143	05134	10123	14072	20043	30051
	40041	10449					
0122	00096	02107	05116	10116	20152	30182	40172
	40412						
0209	00170	02132	05134	10115	15096	50172	
0222	00112	02092	05053	10032	20021	30361	50322
0309	00103	02115	05115	10162	15154	20183	30182
	40389						
0322	00084	02085	05085	10104	20194	30161	20342
0409	00121	02101	05142	10172	20050	27274	30284
	40262	10479					
0422	00151	02092	05142	10162	20152	26163	50275
0510	00192	02153	05164	10202	20273	30791	50322
0521	00191	02132	05152	10184	14185	23155	
0609	00221	02192	05193	10186	15184	10179	
0622	00021	02022	05241	10011	20130	30191	40021
	46031	20472					
0709	00092	02112	05164	10174	50149		
0722	00093	02094	05093	10094	20105	30201	40171
	50221	60242	10672				
0809	00161	02114	05094	10052	15000	20134	30312
	40033	10419					
0822	00021	02352	05311	10310	20020	30090	40111
	44271	10462					
0909	00201	02121	05061	10270	20000	26313	30112
	10312						
0922	00030	02051	05081	10061	20232	30031	40213
	49244	13502					
1009	00181	02141	05151	08162	10099		
1022	00094	02085	05095	10114	20132	30242	40192
	50232	56252	23582				
1109	00181	02114	05106	10094	20362	30312	10348

July (Contd.)

1122	00105	02115	05124	10082	20042	30335	40222
	50254	55212	23562				
1209	00130	02124	05133	10134	20122	27213	80299
1222	00134	02125	05126	10623	20113	23341	47249
1309	00600	02603	05601	09604	4x115		
1322	00107	02107	05600	10591	20065	30023	40312
	43042	50012	26562				
1422	00118	02107	05119	10097	20095	30074	40584
	43441						
1509	00142	02104	05096	10085	20072	53215	
1522	00067	02077	05087	10115	20133	30104	40064
	50073	75572					
1609	00141	02114	05105	10115	20093	30032	40349
1622	00063	02074	05074	10094	20046	30074	40294
	48313	14532					
1709	00141	02114	05094	10041	20013	30343	10359
1722	00098	02098	05590	10580	20580	57235	
1809	00097	02097	62065				
1822	00043	02023	05033	62083			
1909	00131	02092	05082	10024	20024	40269	
1921	00102	02114	05084	10062	17042	53202	
2009	00191	02112	05083	10082	15052	20022	30052
	20329						
2022	00094	02093	05103	10132	20102	30142	83341
2109	00201	02141	50055				
2122	00105	02095	05115	10113	20114	30133	20321
2209	00131	02113	05125	40089			
2222	00136	02115	05114	10xxxx	15113	20103	30124
	40134	50144	13522				
2322	00099	02109	05099	10078	20022	30033	37033
	43381						
2409	00097	02098	05099	10078	50115		
2422	00116	02099	05089	10057	15046	20171	
2509	00132	02094	05085	26085			
2522	00000	02262	05252	10032	20360	30090	40020
	43442						
2609	00201	02112	05104	10094	56115		
2621	00084	02096	05095	10108	15114	20134	50212
2709	00132	02113	05085	10085	40115		
2722	00094	02095	05105	10122	20065	20242	
2809	00104	02115	05108	09085	40115		
2822	00097	02109	05097	10077	15065	24171	
2910	00131	02124	05094	10055	20037	24036	40269
2922	00092	02093	05064	10035	20046	20242	
3009	00131	02093	05073	10053	20353	27063	20292
3022	00083	02074	05074	10082	15112	20132	25052
	30045	40073	20432				
3109	00132	02104	05084	10112	15131	20122	26011
	13279						
3122	00113	08084	10075	15032	20053	30052	40063
	49026	20172					

August

0109	00151	02xxx	06065	10065	15054	53189	
0122	00085	02096	05096	10123	15143	20163	30065
	40054	50271	60025	20641			
0209	00191	02133	05136	10124	15123	40172	
0221	00104	02105	05115	10118	10142		
0309	00121	02124	05126	10098	15089	18079	40209
0323	00106	02117	05119	10106	87145		
0409	00124	02117	05099	10581	15066	50175	
0422	00108	02109	05117	10138	15119	20105	29135
	27309						
0509	00131	02124	05127	10117	10122		
0522	00107	02118	05xxx	12117	15106	20108	30085
	40115	20442					
0609	00105	02115	05117	10108	15099	40208	
0622	00610	02601	05614	10595	20125		
0709	00125	02115	05118	10098	15087	20076	40209
0722	00108	02107	05117	10114	15191	20191	30364
	40058	50065	20582				
0809	00132	02114	05106	10104	15091	20072	30011
	40379						
0822	00107	02107	05117	10107	15095	20181	25094
	30074	10322					
0909	00181	02132	05116	08129	41095		
0922	00124	02195	05197	10118	15106	50172	
1009	00123	02124	05127	10095	15087	20094	27133
	40309						
1022	00096	02115	05135	10119	15092	40182	
1109	00094	02114	05611	10600	15096	20084	50245
1122	00134	02114	05124	10115	15082	20113	30124
	24372						
1209	00094	02125	05118	10096	15102	20182	30123
	40329						
1222	00097	02109	05119	10097	15107	44202	
1309	00099	02109	05611	10099	15097	20113	54235
1322	00099	02097	05109	5x065			
1409	00096	02105	05095	08097	50095		
1422	00116	02106	05108	10108	15133	20143	23232
1509	00142	02125	05118	10095	50111		
1522	00086	02075	05086	9x065			
1609	00094	02094	05085	10085	57125		
1622	00009	02083	05092	10092	15064	20084	30044
	37053	23382					
1709	00091	02113	05115	10114	15163	20113	53241
1722	00031	02052	05081	24085			
1809	00201	02152	05115	10104	15114	20155	30133
	37133	10402					
1822	00104	02094	05074	10083	15093	20103	30142
	40222	50234	60303	70293	20734		
1909	00163	02113	05094	10094	9x141		
1922	00094	02094	05091	10123	15103	20083	30363
	24302						

August (Contd.)

2009	00161	02103	05116	10095	15094	20084	30073
	35084	14379					
2022	00083	02085	05086	10076	14068	24155	
2122	00142	02134	05114	10102	15253	20254	26205
2209	00251	02231	05192	10193	15234	20232	46249
2222	00187	02158	05156	10153	15050	23182	
2309	02191	05120	10123	15122	20112	24102	53261
2323	00085	02106	05114	09153	70105		

September

0203	00121	02122	05142	10154	5x125		
0209	00104	02113	05122	10144	40115		
0222	00096	02105	05114	10113	15075	20043	7x215
0309	00115	02125	05124	10115	17074	50185	
0322	00106	02106	05124	10135	15082	8x155	
0409	00151	02114	05126	10134	15222	20102	30132
	10329						
0422	00107	02109	05106	10124	15154	20174	44245
0521	00271	02262	05161	10089	15056	20056	29087
	44321						
0609	00094	02103	05105	10104	15074	57175	
0621	00060	02071	05061	10271	57121		
0809	00000	02321	05341	10172	5x126		
0822	00085	02076	05075	10075	15065	20085	29084
	50305						
0910	00181	02171	05343	08012	52095		
0922	00000	02072	05084	10054	15054	20054	50235
1009	00023	02014	05013	09032	51115		
1022	00340	02352	05313	10312	15312	20312	25302
	15272						
1109	00201	02113	05094	10043	15032	20023	50269
1122	00093	02094	05084	10073	15013	20362	30081
	40042	13435					
1209	00182	02122	05093	10063	15072	20063	29075
	40309						
1222	00096	02087	05105	10114	15105	20189	
1309	00131	02123	05125	10116	15105	20084	23075
	40269						
1321	00096	02108	05118	10129	15109	20108	26108
	20299						
1409	00114	02116	05118	10600	15108	20098	29082
	10309						
1422	00107	02601	05602	10127	xx152		
1509	00123	02125	05118	10610	15098	20580	23076
	40241						
1522	00128	02612	05109	10107	15094	20107	20242
1609	00113	02116	05117	10088	15098	20570	10249
1622	00096	02105	05125	10146	15115	20107	30105
	84352						
1709	00114	02116	05118	10098	15087	20086	24076
	44269						

September (Contd).

1722	00098	02119	05602	10590	15089	20087	13212
1809	00116	02119	05600	08604	10593	14581	44159
1822	00594	02600	05105	10115	61145		
1823	00097	02107	05099	60095			
1922	00085	02088	05087	10079	15077	20066	92215
2009	00123	02107	05099	1008x	22xx1		
2023	00073	02074	05055	57085			
2109	00033	02034	05014	10365	15366	20357	30354
	23349						
2122	00324	02326	05301	10308	15800	20318	27309
	39299						
2209	00111	02101	05192	10232	15293	20273	25283
	26279						
2222	00341	02012	05113	10123	15171	20131	46215
2309	00201	02162	05136	10126	15117	20117	5x261
2322	00086	02095	05113	10093	15094	20086	36212
2409	00160	02114	05105	10087	15087	20076	30076
	20352						
2422	00084	02103	05132	10133	15095	20096	30074
	23351						
2509	00094	02114	05097	10099	15097	20089	4x211
2522	00107	02107	05108	10116	15105	20124	24134
	20279						
2609	00200	02131	05123	10177	15136	20136	44219
2622	00099	02600	05118	10095	15086	20075	20249
2710	00114	02117	05109	10098	15097	20097	29086
	40302						
2722	00106	02108	05108	10088	15077	80175	
2809	00161	02104	05095	10063	9x125		
2822	00071	02082	05062	10054	15043	20033	30042
	24352						
2909	00161	02103	05084	10065	14065	3x157	
2922	00102	02094	05094	20085			
2923	00103	02104	05095	10074	15064	20063	24025
3009	00151	02113	05094	10074	15053	20052	20239
3022	00104	02095	05094	10093	15083	20093	30302
	14322						

October

0109	00191	02131	10079				
0110	00181	02101	05122	10162	15101	20161	10238
0122	00083	02074	05092	10132	15153	46235	
0209	00191	02111	05081	10061	15361	20101	40249
0222	00063	02073	05042	10301	15302	20301	30292
	20322						
0309	00230	02111	05071	10361	15330	5x209	
0322	02105	05085	10054	15044	20054	23242	
0410	00101	02052	9x055				
0421	00323	02323	05334	10346	15347	20347	40211
0509	00181	02311	05314	10326	15316	20306	26287
	54271						

October (Contd.)

0522	00302	02303	05304	10292	15284	20275	26265
	23262						
0609	00000	02180	05172	10222	15234	20255	8x245
0622	00341	02342	05241	08212	10321	15331	20331
	53245						
0704	00111	02103	05112	10312	13142		
0709	00201	02192	05081	10282	15333	20312	40231
0722	00011	02362	05341	10041	15322	20352	30314
	40266	49295	13502				
0809	00000	02000	05162	10131	40121		
0822	00082	02083	05131	10152	15301	20342	30352
	40363	14412					
0909	00122	02114	05135	10104	15094	18042	80209
0922	00094	02095	05115	10084	15105	50175	
1009	00122	02124	05125	10115	15063	20043	30013
	23345						
1022	00095	02116	05086	10076	15076	20064	30154
	40072	42442					
1109	00111	02093	05104	10062	15075	20065	25044
	30072	37271	54405				
1121	00102	02122	05094	10084	15074	20075	30054
	26329						
1209	00131	02114	05085	10067	15068	5x185	
1222	00096	02106	05125	10106	15074	20112	10242
1309	00131	02114	05116	10094	15114	20115	40215
1322	00106	02107	05126	10105	15115	20134	24125
	46265						
1409	00090	02132	05153	10191	15191	20183	40249
1422	00106	02084	05081	10173	15243	20251	25312
	30151	10322					
1509	00131	02143	05164	10242	15162	20194	25176
	10299						
1522	00011	02021	05360	10051	15030	20051	30051
	50325						
1609	00161	02112	05124	10127	15117	20135	50215
1622	00117	02106	05106	10137	15129	20630	30146
	35185	40095	20439				
1709	00113	02115	05117	10115	15072	20353	10232
1722	00115	02118	05116	10143	15113	50183	
1809	00114	02127	05119	10124	15271	20282	13232
1822	00104	02105	05117	10118	15125	18134	50202
1909	00091	02123	05115	10116	15113	20072	30172
	5x335						
1922	00104	02113	05114	10103	15093	20123	50241
2009	00122	02114	05118	10097	15107	20093	30094
	20358						
2022	00072	02094	05095	10075	15086	40175	
2222	00072	02084	97045				
2302	00000	02111	05104	10124	15103	49205	
2309	00221	02101	05113	10156	14166	44159	
2322	00332	02322	05352	10203	50112		

October (Contd.)

2323	00352	02332	05331	10202	15222	50171	
2409	00192 50279	02203	05244	10293	15322	20292	26295
2422	00322 20329	02322	05341	10292	15353	20354	30324
2509	00112	02103	05094	51065			
2522	00102	02092	05065	10045	14035	46151	
2609	00094 23309	02094	05085	10075	15074	20093	29123
2622	00092	02096	05106	10095	14106	54152	
2709	00142	02125	05117	10108	15600	10179	
2722	00096	02096	05104	10084	10155		
2809	00151 10299	02114	05106	10096	15095	20075	27087
2822	00096 23322	02107	05109	10097	15086	20086	30087
2909	00141	02114	05105	50065			
2922	00084 20321	02107	05096	10096	15098	20082	30091
3009	00132	02114	05096	08085	40095		
3022	00094	02095	05096	10075	20115		
3109	00131 40295	02104	05095	10084	15085	20093	26084
3123	00113	02114	05115	08106	52095		

November

0109	00132 4x351	02115	05107	10108	15117	20106	30094
0121	00114 23289	02115	05116	10087	15085	20074	27092
0209	00171 27295	02132	05103	10086	15077	20065	27092
0222	00031 40291	02043 50254	05051 13532	10043	15061	20362	30292
0309	00200 14339	02112	05082	10112	15122	20101	30131
0322	00064 50303	02085 60042	05085 24559	10084	20092	30072	40xx3
0409	00111 40272	02093	05084	10073	15073	20073	26062
0422	00072	02073	05053	10054	14054	23151	
0509	00161 5x299	02102	05054	10035	15044	20054	27074
0601	00000	02031	05043	07044	27085		
0609	00201 40269	02242	05022	10025	15014	20014	24015
0622	00021 13242	02362	05353	10345	15335	20344	23335
0709	00343	02344	05314	10334	62105		
0722	00060	02180	05302	08303	62095		

November (Contd.)

0810	00071 50309	02053	05090	10091	15240	20341	29251
0822	00095	02074	05134	10051	15151	20120	13235
0909	00191 50264	02123	05115	10061	15052	20082	24083
0922	00106 17305	02085	05085	10074	15074	20074	29074
1009	00181	02153	05184	09195	60115		
1022	00231 87295	02171	05024	10083	15073	20055	27043
1109	00161 10299	02113	05073	10053	15053	20092	27083
1122	00074	02074	05083	09071	50115		
1208	00181 53267	02221	05331	10172	15183	20183	24173
1222	00072 40231	02064 50214	05083 57246	10053 20604	15102	20113	30242
1308	00181 35184	02161 13378	05201	10362	15012	20320	30213
1322	00113	02142	05232	10222	15231	30175	
1409	00221 10309	02213	05206	10265	15265	20275	29265
1422	00361 17345	02021	05164	10164	15143	20194	30214
1509	00181	02211	05151	10201	15261	20273	57219
1523	00231 37326	02222 47385	05202	10292	15282	20314	30304
1608	00000 43279	02000	05210	10272	15294	20285	26288
1622	00333 40306	02072 50324	05152 54539	10253	15296	20800	30793
1708	00191	02142	05042	10302	50125		
1722	00361	02022	05101	61767			
1801	00061	02092	05230	10271	15292	18293	87205
1808	00000	02043	05023	10064	51915		
1822	00341	02342	05333	10317	15307	20298	84202
1908	00000	02292	05324	10325	15318	56153	
2001	00290	02312	05295	10314	15305	20308	20185
2008	00073	02063	05022	10364	24095		
2103	00061 62345	02072	05042	10274	15305	20308	30810
2108	00000 51265	02021	05xxxx	10024	15333	20262	25325
2122	00021 23375	02083	05074	10012	15033	20033	30024
2208	00101 57249	02132	05092	10082	15053	20065	25055
2222	00104 40033	02105 50323	05096 26500	10105	15086	20064	30046
2308	00141 35032	02124 86321	05095	10084	15085	20073	30051

November (Cont'd.)

2322	00094 40101	02094 84355	05095	10095	15075	20114	30102
2408	00161 40292	02101 74409	05103	10094	15112	20102	30282
2422	00061	02061	05101	10311	80115		
2508	00181 24359	02232	05232	15243	20224	30244	40246
2522	00000 35271	02322 46355	05252	10291	15261	20261	30241
2608	00141	02212	05171	10151	15161	74179	
2621	00051 40274	02022 50212	05141 60302	10282 70243	15294 80264	20333 90246	30323 10903

December

1222	00114 97295	02103	05083	10075	15075	20096	26115
1308	00142 35083	02104 71351	05094	10084	15084	20104	30092
1321	00061 40192	02102 50103	05052 72465	10043	15064	20076	30133
1408	00000	02133	05105	10085	20086	41179	
1422	00096 40173	02097 50202	05114 60152	10124 24623	15104	20063	30152
1522	00096	02590	05097	10087	15097	20086	30235
1608	00181 50329	02112	05082	10074	15096	20095	30123
1622	00093	02105	05106	10096	15116	70176	
1708	00162	02114	05095	10064	15075	20075	10279
1722	00095	02095	05106	10113	15105	20108	20211
1808	00143	02114	05106	10098	15096	20085	10269
1822	00096 20275	02097	05098	10094	15115	20114	25096
1908	00074	02083	05083	10074	15094	20181	
1922	00071 35003	02052 20385	05062	10071	15052	20042	30033
2008	00262 40291	02152 20409	05282	10041	15241	20311	30362
2022	00343 27301	02323	05292	10262	15273	20293	30284
2108	00182	02142	05084	10082	15180	20214	54291
2122	00051 38161	02072 27405	05101	10152	15261	20141	30141
2209	00141	02143	05143	10333	14323	52155	
2222	00363	02354	05343	10313	15303	52175	
2501	00353	02012	05363	10353	62131		
2508	00074	02082	05023	09022	62105		
2522	00000 27305	02101	05022	10366	15026	20364	30355
2608	00141	02103	05034	10035	20033	51235	
2622	00131	02112	05053	10016	15018	83195	

December

2708	00272 50349	02313	05354	10013	15013	20012	30232
2722	00041 40361	02042 23432	05022	10014	15364	20014	30321
2808	00000 60327	02022	05342	10353	15014	20014	30291
2821	00303	02314	05293	10294	15304	20172	
2922	00313	02293	05273	10274	15294	20316	20242
3008	00000	02171	10322	15345	25206		
3022	00032	05034	10015	15365	20016	82248	
3108	00181	02082	05024	10016	15025	52185	
3123	00093	02055	05035	10037	15037	92155	

CLIMATOLOGICAL SUMMARY, 1942

Mean Values and Frequencies of Meteorological Elements

Station - Atafu Lat. 8° 32'S. Long. 172° 31'W. Altitude: 10 feet above sea level (barometer cistern). Hour of observation 8.0 a.m. Local Time. (Time standard: +11h 1.e. slow on Greenwich).

Month	Barometer (millibars)	Temperature (°F). Dry Bulb	Wet Bulb	Mean Maximum	Absolute Maximum	Date	Mean Minimum	Absolute Minimum	Date	Rainfall (inches)	Wind - Number of observations of: Forces 8 or more	Forces 4 - 7	Forces 1 - 3	Calm	N	NE	E	SE	S	SW	W	NW	Variable	Cloud - Number of observations of: Clear Sky 0-2	Partly clouded 3 - 7	Overcast 8-10	Number of daily reports available.
January	1007.8	81.1	78.6	89.6	94.1	26th.	77.8	74.1	3rd.	20.31	0	2	28	1	9½	6	4	1	0	1	3	5½	0	0	11	20	31
February	1007.0	81.3	78.4	86.8	91.8	12th.	77.4	74.3	13,25.	20.46	0	10	18	0	5	1	1	0	0	2	11½	7½	0	0	3	25	28
March	1009.4	82.1	78.8	89.9	93.2	12th.	78.6	75.0	26th.	10.54	0	0	31	0	1½	5	18	4½	1	0½	0½	0	0	0	22	9	31
April	1010.1	81.2	78.3	89.9	93.0	19th.	78.3	74.8	27th.	12.43	0	0	29	1	5	4½	8½	5½	2½	1	2	0	0	0	17	13	30
May	1009.5	81.5	78.8	88.9	92.1	1,10th.	78.6	76.1	4th.	10.11	0	1	29	1	1	4½	16	1½	2½	1½	2½	0½	0	1	17	13	31
June	1010.3	81.1	78.1	87.7	90.7	23rd.	78.1	74.8	8th.	10.96	0	6	23	1	1	1	18½	6½	0	1	1	0	0	0	17	13	30
July	1010.7	79.7	76.9	86.8	90.5	2nd.	77.3	73.6	13th.	11.20	0	5	25	1	0½	5½	16½	6½	1	0	0	0	0	1	10	20	31
August	1010.5	80.1	76.7	86.9	93.9	3rd.	77.0	72.0	7th.	13.36	0	7	24	0	0½	5	18	5½	2	0	0	0	0	0	22	9	31
September	1011.4	80.4	76.3	86.3	90.7	7th.	75.8	73.8	7th.	7.94	0	5	25	0	0	9½	18	2½	0	0	0	0	0	0	14	16	30
October	1010.7	80.6	77.0	87.6	91.8	4,5th.	76.6	72.7	19th.	11.22	0	4	27	0	2½	6½	14	5	0	1	1	1	0	0	16	15	31
November	1009.5	80.6	77.0	86.9	92.3	15th.	75.9	74.3	28th.	13.26	0	1	28	1	7	11½	8½	0½	0	0	1	0½	0	0	14	16	30
December	1009.4	81.3	76.3	88.6	91.4	4th.	78.7	73.4	5th.	5.87	0	2	28	1	1½	19	9	0½	0	0	0	0	0	0	19	12	31
Year	1009.7	80.9	77.6	88.0	94.1	26th.Jan	77.5	72.0	7th.Aug.	147.56	0	45	315	7	35	79	150	39½	9	8	22½	15	0	2	182	181	365

SOURCE OF DATA:

Monthly meteorological reports supplied by the native radio operator, Simi. Readings of pressure were obtained from a Kew pattern mercury barometer (C 117539) and temperatures were read from mercury thermometers which are exposed in a Stevenson screen of standard pattern. The readings of the barometer are corrected for index error, temperature, gravity and elevation above mean sea level.

NOTE:

The frequencies of wind have been condensed to eight principal points by crediting one half of the frequencies of intermediate points to each of the neighbouring principal points; e.g. a frequency of 5 observations of wind from NNE is expressed as N 2½ and NE 2½.