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IONOSPHERIC DATA

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IONOSPHERIC DATA

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Washington, D.C.

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TERMINOLOGY AND SCALING PRACTICES

The symbols and terminology used in this report are those adopted by the International Radio Propagation Conference, and given in detail on pages 24 to 26 of the report IRPL-C61, "Report of International Radio Propagation Conference", and in the Section on "Terminology"; in reports IRPL-F1, 2, 3, 4, 5.

In the past, ionospheric conditions were summarized on a monthly basis by using average or mean values, for each hour of the day, for each month. The advantages of using median, instead of average values, were such, however, that beginning with data for 1 Jan. 1945, median values were used by the IRPL wherever possible. Consequently, all summarized data given in the IRPL-F series reports use median values, when such values are reported to the IRPL, or when detailed data are reported to IRPL to permit their calculation. Thus, median values are given for Washington, for all stations reporting directly to the IRPL, for the Canadian stations, and for all others sending in detailed tabulations to the IRPL.

Where average values are reported, they are the average for all days of the month; values missing for any reason are completely omitted from the average.

The monthly median values used here are the values equalled or exceeded on half the days of the month at the given hour. The following conventions are used in determining the medians for hours when no measured values are given, because of equipment limitations and ionospheric irregularities. Symbols used are those given in the report referred to above, IRPL-C61.

a. For all ionospheric characteristics:

Values missing because of A, B, C or F (see terminology referred to above) are omitted from the median count.

b. For critical frequencies and virtual heights:

Values missing because of E are counted as equal to or less than the lower limit of the recorder.

Values missing because of D are counted as equal to or greater than the upper limit of the recorder.

Values missing because of G are counted:

1. For f^oF2 , as equal to or less than f^oFl .

2. For h^oF2 , as equal to or greater than the median.

Values missing for any other reason are omitted from the median count.

c. For mu_f factors (M-factors):

Values missing for any reason are omitted from the median count.

d. For sporadic E (Es):

Values of fEs missing because no Es reflections appeared, the equipment functioning normally otherwise, are counted as equal to or less than the lower limit of the recorder.

Values of fEs missing for any other reason, and values of hEs missing for any reason at all, are omitted from the median count.

MONTHLY AVERAGE AND MEDIAN VALUES OF IONOSPHERIC DATA

The ionospheric data given here in graphical and tabular form were assembled by the Interservice Radio Propagation Laboratory for analysis and correlation, incidental to IRPL predictions of radio propagation conditions. The following are the sources of the ionospheric data which appear in the IRPL-F series reports.

Australian Council for Scientific and Industrial Research
Radio Research Board, Australia
Brisbane, Q., Australia
Mt. Stromlo, Canberra, NSW, Australia
Cape York, Q., Australia.

British National Physical Laboratory, and Inter-Services Ionosphere Bureau
Radio Research Station, Slough, England
Great Baddow, England
Burghead, Scotland
Delhi, India
Madras, India
Simonstown, Union of S. Africa

Canadian Department of National Defence, Naval Service
Churchill, Canada
Ottawa, Canada
St. John's, Canada

New Zealand Radio Research Committee
Kermadec Is.
Christchurch (Canterbury University College Observatory)
Campbell I.
Pitcairn I.
Rarotonga I.

Interdepartment Ionosphere Bureau, U.S.S.R. Scientific Experimental
Institute of Terrestrial Magnetism, Moscow, U.S.S.R.
Tykhi Bay, U.S.S.R.
Tomsk, U.S.S.R.
Sverdlovsk, U.S.S.R.
Moscow, U.S.S.R.

Carnegie Institution of Washington (Department of Terrestrial Magnetism)
Baffin I., Canada
Christmas I.
Fairbanks, Alaska (University of Alaska, College, Alaska)
Reykjavik, Iceland
Maui, Hawaii
Trinidad, Brit. West Indies
Huancayo, Peru
Watheroo, W. Australia

National Bureau of Standards, Washington, D.C.
 Stanford University, (San Francisco), California
 Louisiana State University, Baton Rouge, Louisiana
 University of Puerto Rico, San Juan, P.R.
 Harvard University, Boston, Mass.

The tables of "provisional data" give values as reported to the IRPL by telephone or telegraph. Any errors in these values will be corrected in later issues of the F-series reports.

The tables and graphs of "final data" are correct for the values reported to the IRPL, but, because of variations in practice in the interpretation of records and scaling and manner of reporting of values, may at times give an erroneous conception of typical ionospheric characteristics at the station. Some of these errors are due to:

- a. Differences in scaling records where spread echoes are present.
- b. Omission of values where f^0F2 is less than or equal to f^0F1 , leading to erroneously high values of monthly average or median values.
- c. Omission of values where critical frequencies are less than the lower frequency limit of the recorder, also leading to erroneously high values of monthly average or median values.

These effects were discussed on pages 6 and 7 of the previous F-series reports, IRPL-F1, 2, 3, 4, and 5. Discrepancies between predicted and observed values are often ascribable to these effects.

IONOSPHERIC DATA FOR EVERY DAY AND HOUR

These data, observed at Washington, D.C., follow the scaling practices given in the report IRPL-C61, "Report of International Radio Propagation Conference," pages 36 to 39, and the median values are determined by the conventions given under "Terminology and Scaling Practices" above.

IONOSPHERE DISTURBANCES

Table 63 presents ionospheric character figures for Washington, D.C., during May, 1945, as determined by the criteria presented in the report IRPL-R5, "Criteria for Ionospheric Storminess", together with American magnetic K-figures which are usually covariant with them.

Table 64 gives provisional radio propagation quality figures for North Pacific areas, for 01 to 12 and 13 to 24 GCT, January and February 1945, compared with IRPL daily radio disturbance warnings, the ISIB daily warnings, the IRPL semiweekly radio propagation forecasts, and the half-day American geomagnetic K figures.

Tables 65 and 66 give similar quality figures and comparisons for the North Atlantic and North Pacific areas, March and April 1945.

The radio propagation quality figures were prepared from radio traffic data, reported to IRPL, in the manner described in detail in report IRPL-R13, "Ionospheric and Radio Propagation Disturbances, October 1943 through February 1945," issued 24 May 1945.

NEW STATION

The one new station for which data appear in this report for the first time is St. John's, Newfoundland (47.5°N , 52.7°W), operated by the Canadian Department of National Defence. See Table 5.

ERRATA

The values erroneously reported as $\text{h}'\text{F}2$ for Slough for July and August 1944 in report IRPL-F5 (Tables 43 and 40) and for October 1944 in the previous issue IRPL-F9 (Table 33 and Fig. 27) were actually $\text{hm}'\text{F}2$ (the height of maximum ionization density for an assumed equivalent parabolic layer).

The longitude of Washington (Sterling, Va.) was erroneously reported as 77.4°W in Table 18 of the previous issue. The correct longitude is 77.5°W .

Table 1 (Provisional data)

Time	$h^{\circ}F2$	$f^{\circ}F2$	$h^{\circ}F1$	$f^{\circ}F1$	$h^{\circ}E$	$f^{\circ}E$	$F2-M3000$
00	260	4.0					
01	260	4.0					
02	260	3.9	220	3.1			
03	260	3.9	230	3.3			
04	310	5.9	230	3.3			
05	370	4.2	250	3.4	115	2.3	
06	470	4.2	250	3.4	115	2.4	
07	480	4.2	250	3.5	112	2.5	
08	470	4.2	250	3.5	110	2.8	
09	450	4.6	250	4.0	110	2.7	
10	430	4.3	230	4.1	111	2.6	
11	400	5.3	240	4.1	112	2.5	
12	440	4.8	240	3.9	110	2.8	
13	470	4.6	240	4.0	110	2.7	
14	450	4.7	250	3.9	110	2.7	
15	420	4.7	240	3.9	111	2.6	
16	410	4.7	240	3.8	112	2.5	
17	380	4.7	240	3.7	113	2.4	
18	340	4.6	240	3.6	114	2.5	
19	270	4.5	260	3.2			
20	270	4.4	230	3.1			
21	250	4.4					
22	250	4.3					
23	260	4.1					

Time: 75°W.
Length of time sweep: 2 sec to 16 sec in one minute.
Median values.

Table 3 (Provisional data)

Time	$h^{\circ}F2$	$f^{\circ}F2$	$h^{\circ}F1$	$f^{\circ}F1$	$h^{\circ}E$	$f^{\circ}E$	$F2-M3000$
00	280	3.6					
01	230	3.3					
02	230	3.9					
03	250	3.6					
04	240	3.7					
05	220	3.3	230	3.3			
06	220	4.0	210	3.5			
07	210	4.2	200	3.9	100	2.6	
08	340	4.5	200	4.0	80	2.7	
09	350	4.7	200	4.1	80	2.9	
10	330	4.3	190	4.2	80	3.1	
11	340	5.2	190	4.2	70	3.2	
12	350	5.3	190	4.3	70	3.2	
13	350	5.2	200	4.3	70	3.2	
14	340	5.3	190	4.3	80	3.1	
15	340	5.2	190	4.2	70	3.1	
16	360	5.2	200	4.1	80	2.8	
17	310	5.3	200	4.0	80	2.8	
18	270	5.2	210	3.9	100	2.5	
19	240	4.7					
20	230	4.7					
21	230	4.3					
22	280	3.7					
23	320	3.0					

Time: 75°W.
Length of time sweep: 2 sec to 16 sec in one minute.
Median values.

Table 3 (Provisional data)

Time	$h^{\circ}F2$	$f^{\circ}F2$	$h^{\circ}F1$	$f^{\circ}F1$	$h^{\circ}E$	$f^{\circ}E$	$F2-M3000$
00	280	3.6					
01	230	3.3					
02	230	3.9					
03	250	3.6					
04	240	3.7					
05	220	3.3	230	3.3			
06	220	4.0	210	3.5			
07	210	4.2	200	3.9	100	2.6	
08	340	4.5	200	4.0	80	2.7	
09	350	4.7	200	4.1	80	2.9	
10	330	4.3	190	4.2	80	3.1	
11	340	5.2	190	4.2	70	3.1	
12	350	5.3	190	4.3	70	3.2	
13	350	5.2	200	4.3	70	3.2	
14	340	5.3	190	4.3	80	3.1	
15	340	5.2	190	4.2	70	3.1	
16	360	5.2	200	4.1	80	2.8	
17	310	5.3	200	4.0	80	2.8	
18	270	5.2	210	3.9	100	2.5	
19	240	4.7					
20	230	4.7					
21	230	4.3					
22	280	3.7					
23	320	3.0					

Time: 75°W.
Length of time sweep: 2 sec to 16 sec in one minute.
Median values.

Table 3 (Provisional data)

Time	$h^{\circ}F2$	$f^{\circ}F2$	$h^{\circ}F1$	$f^{\circ}F1$	$h^{\circ}E$	$f^{\circ}E$	$F2-M3000$
00	280	3.6					
01	230	3.3					
02	230	3.9					
03	250	3.6					
04	240	3.7					
05	220	3.3	230	3.3			
06	220	4.0	210	3.5			
07	210	4.2	200	3.9	100	2.6	
08	340	4.5	200	4.0	80	2.7	
09	350	4.7	200	4.1	80	2.9	
10	330	4.3	190	4.2	80	3.1	
11	340	5.2	190	4.2	70	3.1	
12	350	5.3	190	4.3	70	3.2	
13	350	5.2	200	4.3	70	3.2	
14	340	5.3	190	4.3	80	3.1	
15	340	5.2	190	4.2	70	3.1	
16	360	5.2	200	4.1	80	2.8	
17	310	5.3	200	4.0	80	2.8	
18	270	5.2	210	3.9	100	2.5	
19	240	4.7					
20	230	4.7					
21	230	4.3					
22	280	3.7					
23	320	3.0					

Time: 75°W.
Length of time sweep: 2 sec to 16 sec in one minute.
Median values.

Table 3 (Provisional data)

Time	$h^{\circ}F2$	$f^{\circ}F2$	$h^{\circ}F1$	$f^{\circ}F1$	$h^{\circ}E$	$f^{\circ}E$	$F2-M3000$
00	280	3.6					
01	230	3.3					
02	230	3.9					
03	250	3.6					
04	240	3.7					
05	220	3.3	230	3.3			
06	220	4.0	210	3.5			
07	210	4.2	200	3.9	100	2.6	
08	340	4.5	200	4.0	80	2.7	
09	350	4.7	200	4.1	80	2.9	
10	330	4.3	190	4.2	80	3.1	
11	340	5.2	190	4.2	70	3.1	
12	350	5.3	190	4.3	70	3.2	
13	350	5.2	200	4.3	70	3.2	
14	340	5.3	190	4.3	80	3.1	
15	340	5.2	190	4.2	70	3.1	
16	360	5.2	200	4.1	80	2.8	
17	310	5.3	200	4.0	80	2.8	
18	270	5.2	210	3.9	100	2.5	
19	240	4.7					
20	230	4.7					
21	230	4.3					
22	280	3.7					
23	320	3.0					

Time: 75°W.
Length of time sweep: 2 sec to 16 sec in one minute.
Median values.

Table 3 (Provisional data)

Time	$h^{\circ}F2$	$f^{\circ}F2$	$h^{\circ}F1$	$f^{\circ}F1$	$h^{\circ}E$	$f^{\circ}E$	$F2-M3000$
00	280	3.6					
01	230	3.3					
02	230	3.9					
03	250	3.6					
04	240	3.7					
05	220	3.3	230	3.3			
06	220	4.0	210	3.5			
07	210	4.2	200	3.9	100	2.6	
08	340	4.5	200	4.0	80	2.7	
09	350	4.7	200	4.1	80	2.9	
10	330	4.3	190	4.2	80	3.1	
11	340	5.2	190	4.2	70	3.1	
12	350	5.3	190	4.3	70	3.2	
13	350	5.2	200	4.3	70	3.2	
14	340	5.3	190	4.3	80	3.1	
15	340	5.2	190	4.2	70	3.1	
16	360	5.2	200	4.1	80	2.8	
17	310	5.3	200	4.0	80	2.8	
18	270	5.2	210	3.9	100	2.5	
19	240	4.7					
20	230	4.7					
21	230	4.3					
22	280	3.7					
23	320	3.0					

Time: 75°W.
Length of time sweep: 2 sec to 16 sec in one minute.
Median values.

Table 3 (Provisional data)

Time	$h^{\circ}F2$	$f^{\circ}F2$	$h^{\circ}F1$	$f^{\circ}F1$	$h^{\circ}E$	$f^{\circ}E$	$F2-M3000$
00	280	3.6					
01	230	3.3					
02	230	3.9					
03	250	3.6					
04	240	3.7					
05	220	3.3	230				

Table 5 (Provisional data)

St. John's, Newfoundland (47.5°N, 52.7°W)							May, 1945											
Time	b'F2	f°F2	b'F1	f°F1	b'E	f'E	b'F2	f°F2	b'F1	f°F1	b'E	f'E	b'F2	f°F2	b'F1	f°F1	b'E	f'E
00	4.0						0.0	5.7					2.7					
01	3.5						0.1	5.3					2.7					
02	3.3						0.2	2.9					2.8					
03	3.1						0.3	2.3					2.9					
04	2.8						0.4	2.9					2.7					
05	3.5						0.5	3.6					3.0					
06	4.3						0.6	4.3					5.1					
07	4.7						0.7	4.7					5.0					
08	5.0						0.8	5.1					2.3					
09	5.2						0.9	5.4					2.3					
10	5.3						1.0	5.5					2.3					
11	5.4						1.1	5.5					2.3					
12	5.5						1.2	5.7					2.3					
13	5.5						1.3	5.8					2.3					
14	5.4						1.4	5.7					2.3					
15	5.8						1.5	5.7					2.3					
16	5.7						1.6	6.1					2.3					
17	5.9						1.7	6.2					2.3					
18	6.2						1.8	6.3					2.3					
19	6.1						1.9	6.5					3.0					
20	6.0						2.0	6.2					3.0					
21	5.8						2.1	5.4					2.9					
22	5.0						2.2	5.0					2.9					
23	4.5						2.3	4.2					2.7					

Median values.

Table 7 (Provisional data)

Boston, Massachusetts (42.4°N, 71.2°W)							May, 1945											
Time	b'F2	f°F2	b'F1	f°F1	b'E	f'E	b'F2	f°F2	b'F1	f°F1	b'E	f'E	b'F2	f°F2	b'F1	f°F1	b'E	f'E
00	3.5						3.0	3.0					2.7					
01	3.1						2.9	0.1					2.7					
02	2.8						3.0	0.2					2.7					
03	2.4						3.0	0.3					2.5					
04	2.4						3.1	0.4					2.5					
05	3.6						3.3	0.5					2.5					
06	4.3						3.2	0.6					2.5					
07	4.7						3.1	0.7					2.8					
08	5.0						3.1	0.8					2.8					
09	5.5						3.0	0.9					2.8					
10	5.5						3.0	1.0					2.5					
11	5.6						3.0	1.1					2.5					
12	5.7						3.0	1.2					2.5					
13	5.9						3.0	1.3					2.5					
14	5.7						3.0	1.4					2.5					
15	5.9						3.0	1.5					2.5					
16	5.9						3.0	1.6					3.0					
17	6.1						3.1	1.7					3.0					
18	6.3						3.1	1.8					3.1					
19	6.4						3.1	1.9					3.1					
20	6.0						3.1	2.0					3.0					
21	5.4						3.0	2.1					3.0					
22	4.7						3.0	2.2					2.6					
23	3.6						3.0	2.3					2.7					

Median values.

Table 7 (Provisional data)

San Francisco, Calif. (37.4°N, 122.2°W)							May, 1945											
Time	b'F2	f°F2	b'F1	f°F1	b'E	f'E	b'F2	f°F2	b'F1	f°F1	b'E	f'E	b'F2	f°F2	b'F1	f°F1	b'E	f'E
00	3.0						0.0	4.2					2.7					
01	3.1						0.1	4.2					2.7					
02	2.8						0.2	4.0					2.7					
03	2.4						0.3	3.6					2.5					
04	2.4						0.4	3.6					2.5					
05	3.6						0.5	3.9					2.5					
06	4.3						0.6	4.5					2.5					
07	4.7						0.7	5.1					2.8					
08	5.0						0.8	5.8					2.8					
09	5.5						0.9	6.2					2.8					
10	5.5						1.0	6.4					2.5					
11	5.6						1.1	6.3					2.5					
12	5.7						1.2	6.6					2.5					
13	5.9						1.3	6.8					2.5					
14	5.7						1.4	6.9					2.5					
15	5.9						1.5	6.7					3.0					
16	5.9						1.6	6.6					3.0					
17	6.1						1.7	6.5					3.0					
18	6.3						1.8	6.2					3.1					
19	6.4						1.9	6.4					3.1					
20	6.0						2.0	5.5					3.1					
21	5.4						2.1	4.9					3.0					
22	4.7						2.2	4.5					2.6					
23	3.6						2.3	4.2					2.7					

Median values.

Table 7 (Provisional data)

Ottawa, Canada (45.6°N, 75.8°W)							May, 1945											
Time	b'F2	f°F2	b'F1	f°F1	b'E	f'E	b'F2	f°F2	b'F1	f°F1	b'E	f'E	b'F2	f°F2	b'F1	f°F1	b'E	f'E
00	0.0						0.1	5.3					2.7					
01	0.1						0.2	2.9					2.8					
02	0.3						0.3	2.3					2.9					
03	0.1						0.4	2.9					2.7					
04	0.5						0.5	3.6					3.0					
05	0.6						0.6	4.3					3.0					
06	0.7						0.7	4.7					3.0					
07	0.8						0.8	5.7					3.0					
08	0.9						0.9	5.4					2.9					
09	0.9						1.0	5.5					2.9					
10	0.9						1.1	5.5					2.9					
11	0.9						1.2	5.5					2.9					
12	0.9						1.3	5.8					2.9					
13	0.9						1.4	5.8					2.9					
14	0.9						1.5	6.7					3.0					
15	0.9						1.6	6.6					3.0					
16	0.9						1.7	6.5					3.0					
17	0.9						1.8	6.2					3.0					
18	0.9						1.9	6.2					3.1					
19	0.9						2.0	6.4										

Violence (Provisional category)

Table 10 (Provisional)

1879, 14 $\frac{1}{2}$:

1545
28.2.9 1545

Time: 90°

20

On time sheet, Oct 1 column, line 6.

Cristina's Y. (2.0%, 1570.)		Eduardo's X. (2.0%, 1570.)	
Time	h:m:s	h:m:s	h:m:s
00	54.0	59.2	58.2
01	54.0	59.1	58.1
02	54.0	59.1	58.1
03	54.0	59.1	58.1
04	54.0	59.1	58.1
05	54.0	59.1	58.1
06	54.0	59.1	58.1
07	54.0	59.1	58.1
08	54.0	59.1	58.1
09	54.0	59.1	58.1
10	54.0	59.1	58.1
11	54.0	59.1	58.1
12	54.0	59.0	58.1
13	54.0	59.0	58.1
14	54.0	59.0	58.1
15	54.0	59.1	58.1
16	52.0	59.2	58.2
17	51.0	59.6	58.2
18	51.0	59.5	58.2
19	51.0	59.2	58.2
20	51.0	58.3	58.2
21	29.0	58.1	28.3
22	29.0	58.0	28.8
23	27.0	57.8	28.0

Time: 1500H. Length of time sweep: 1 min. operation.

Time: 0°
Average values.

Izumi, *Georgi* (20.90., 15r.50.)

1545
28.2.9 1545

Time	hF2	f ⁰ F1	z ⁰ F1	hE	f ⁰ E	z ⁰ E	hF2	f ⁰ F1	z ⁰ F1	hE	f ⁰ E	z ⁰ E	hF2	f ⁰ F1	z ⁰ F1	hE	f ⁰ E	z ⁰ E	
00	220	5.8					220	5.8					220	5.8					
01	250	5.5					250	4.5					250	4.5					
02	250	4.5					250	4.2					250	4.2					
03	250	4.2					260	4.4					260	4.4					
04	260	4.4					250	3.5					250	3.5					
05	250	3.5					250	4.5					250	4.5					
06	240	5.7					250	4.5					250	4.5					
07	240	4.7					250	4.4					250	4.4					
08	300	6.6					200	4.7					200	4.7					
09	300	7.4					200	4.3					200	4.3					
10	355	7.2					200	4.5					200	4.5					
11	380	6.3					200	4.9					200	4.9					
12	350	10.5					200	5.0					200	5.0					
13	350	10.3					200	4.5					200	4.5					
14	300	11.0					210	4.5					210	4.5					
15	320	11.4					210	4.5					210	4.5					
16	290	11.2					215	4.5					215	4.5					
17	270	11.2					215	4.5					215	4.5					
18	250	10.4					215	4.5					215	4.5					
19	230	5.0					215	4.5					215	4.5					
20	240	3.4					250	7.0					250	7.0					
21	21						250	7.0					250	7.0					
22	280						250	7.0					250	7.0					
23	280						250	7.0					250	7.0					

卷之三

ON THE SWEET COTTON

On time sheet, Oct 1 column left.

Time: 0°
Average values.

Table 15 (provisional data)

Time	$h^{\circ}T_2$	$f^{\circ}T_2$	$h^{\circ}T_1$	$f^{\circ}T_1$	$h^{\circ}E$	$f^{\circ}E$	$f^{\circ}S$	$f^{\circ}N$	$F^{\circ}E-M^{\circ}000$
00	3.4	3.4	3.0	3.0	4.6	4.6	3.1	3.1	3.5
01	3.4	4.2	4.0	4.0	4.4	4.4	3.4	3.4	3.4
02	3.2	3.2	3.0	3.0	3.9	3.9	3.4	3.4	3.4
03	3.2	3.2	3.0	3.0	3.6	3.6	3.4	3.4	3.4
04	3.2	4.6	2.9	2.9	2.5	2.5	3.0	3.0	3.0
05	3.6	4.6	2.9	2.9	2.6	2.6	3.5	3.5	3.5
06	3.9	5.0	2.9	2.9	4.1	4.1	3.2	3.2	3.2
07	4.2	4.2	2.9	2.9	6.6	6.6	3.3	3.3	3.3
08	4.4	5.4	2.6	2.6	8.5	8.5	3.3	3.3	3.3
09	4.6	5.4	2.5	2.5	9.5	9.5	3.4	3.4	3.4
10	4.6	5.4	2.6	2.6	10	9.9	3.4	3.4	3.4
11	5.0	5.0	2.6	2.6	11	9.6	3.5	3.5	3.5
12	5.1	5.1	2.6	2.6	12	9.4	3.1	3.1	3.1
13	5.0	5.0	2.6	2.6	13	9.3	3.1	3.1	3.1
14	5.4	5.4	2.5	2.5	14	10.0	3.1	3.1	3.1
15	5.5	5.5	2.3	2.3	15	10.2	3.0	3.0	3.0
16	5.2	5.2	2.1	2.1	16	10.4	3.1	3.1	3.1
17	5.1	5.1	2.0	2.0	17	10.6	3.1	3.1	3.1
18	5.0	5.0	1.9	1.9	18	10.8	3.1	3.1	3.1
19	4.6	4.6	1.8	1.8	19	11.0	3.1	3.1	3.1
20	4.3	4.3	1.8	1.8	20	11.2	3.0	3.0	3.0
21	4.1	4.1	1.8	1.8	21	11.4	3.0	3.0	3.0
22	3.9	3.9	1.8	1.8	22	11.6	3.0	3.0	3.0
23	3.6	3.6	1.8	1.8	23	11.8	3.0	3.0	3.0

Time: 0° .
Length of time sweep: Manual operation.
Average values.

Table 16 (provisional data)

Time	$h^{\circ}T_2$	$f^{\circ}T_2$	$h^{\circ}T_1$	$f^{\circ}T_1$	$h^{\circ}E$	$f^{\circ}E$	$f^{\circ}S$	$f^{\circ}N$	$F^{\circ}E-M^{\circ}000$
00	3.8	2.9	0.7	0.7	4.3	4.3	2.3	2.3	2.3
01	5.6	2.9	0.7	0.7	4.2	4.2	2.3	2.3	2.3
02	3.9	3.0	0.2	0.2	4.2	4.2	2.3	2.3	2.3
03	3.9	3.1	0.2	0.2	4.2	4.2	2.3	2.3	2.3
04	3.5	3.1	0.2	0.2	4.2	4.2	2.3	2.3	2.3
05	3.2	3.0	0.5	0.5	4.1	4.1	2.0	2.0	2.0
06	3.5	3.2	0.6	0.6	4.1	4.1	2.0	2.0	2.0
07	5.5	3.2	0.7	0.7	3.9	3.9	2.0	2.0	2.0
08	6.5	3.4	0.8	0.8	5.6	5.6	2.2	2.2	2.2
09	7.2	3.4	0.8	0.8	6.7	6.7	2.1	2.1	2.1
10	7.7	3.2	1.0	1.0	7.6	7.6	2.0	2.0	2.0
11	7.9	3.3	1.1	1.1	8.0	8.0	2.0	2.0	2.0
12	7.9	3.2	1.2	1.2	8.4	8.4	2.0	2.0	2.0
13	8.0	3.2	1.3	1.3	9.3	9.3	2.0	2.0	2.0
14	8.2	3.3	1.4	1.4	9.6	9.6	2.0	2.0	2.0
15	7.9	3.3	1.5	1.5	8.0	8.0	2.0	2.0	2.0
16	7.2	3.4	1.6	1.6	8.9	8.9	2.0	2.0	2.0
17	6.4	3.4	1.7	1.7	8.5	8.5	2.0	2.0	2.0
18	6.2	3.3	1.8	1.8	7.2	7.2	2.0	2.0	2.0
19	4.0	3.1	1.9	1.9	4.3	4.3	1.1	1.1	1.1
20	3.9	3.0	2.0	2.0	3.5	3.5	1.0	1.0	1.0
21	3.8	3.0	2.1	2.1	3.5	3.5	1.0	1.0	1.0
22	3.8	3.0	2.2	2.2	3.1	3.1	1.0	1.0	1.0
23	3.8	2.9	2.3	2.3	2.9	2.9	1.0	1.0	1.0

Time: 120° .
Length of time sweep: 1 sec to 0.5 sec in fifteen minutes.
Average values.

Table 14 (provisional data)

Time	$h^{\circ}T_2$	$f^{\circ}T_2$	$h^{\circ}T_1$	$f^{\circ}T_1$	$h^{\circ}E$	$f^{\circ}E$	$f^{\circ}S$	$f^{\circ}N$	$F^{\circ}E-M^{\circ}000$
00	0.0	0.0	0.1	0.1	3.9	3.9	3.1	3.1	3.5
01	0.2	0.0	0.2	0.2	3.9	3.9	3.1	3.1	3.4
02	0.2	0.0	0.3	0.3	3.6	3.6	3.1	3.1	3.3
03	0.2	0.0	0.4	0.4	3.5	3.5	3.1	3.1	3.1
04	0.2	0.0	0.5	0.5	3.5	3.5	3.1	3.1	3.1
05	0.6	0.0	0.6	0.6	3.5	3.5	3.1	3.1	3.1
06	0.9	0.0	0.6	0.6	3.5	3.5	3.1	3.1	3.1
07	1.2	0.0	0.7	0.7	3.5	3.5	3.1	3.1	3.1
08	1.4	0.0	0.8	0.8	3.5	3.5	3.1	3.1	3.1
09	1.7	0.0	0.9	0.9	3.5	3.5	3.1	3.1	3.1
10	1.7	0.0	1.0	1.0	3.5	3.5	3.1	3.1	3.1
11	1.9	0.0	1.1	1.1	3.5	3.5	3.1	3.1	3.1
12	2.1	0.0	1.2	1.2	3.5	3.5	3.1	3.1	3.1
13	2.2	0.0	1.3	1.3	3.5	3.5	3.1	3.1	3.1
14	2.2	0.0	1.4	1.4	3.5	3.5	3.1	3.1	3.1
15	2.2	0.0	1.5	1.5	3.5	3.5	3.1	3.1	3.1
16	2.2	0.0	1.6	1.6	3.5	3.5	3.1	3.1	3.1
17	2.2	0.0	1.7	1.7	3.5	3.5	3.1	3.1	3.1
18	2.2	0.0	1.8	1.8	3.5	3.5	3.1	3.1	3.1
19	2.2	0.0	1.9	1.9	3.5	3.5	3.1	3.1	3.1
20	2.2	0.0	2.0	2.0	3.5	3.5	3.1	3.1	3.1
21	2.2	0.0	2.1	2.1	3.5	3.5	3.1	3.1	3.1
22	2.2	0.0	2.2	2.2	3.5	3.5	3.1	3.1	3.1
23	2.2	0.0	2.3	2.3	3.5	3.5	3.1	3.1	3.1

Table 15 (provisional data)

Time	$h^{\circ}T_2$	$f^{\circ}T_2$	$h^{\circ}T_1$	$f^{\circ}T_1$	$h^{\circ}E$	$f^{\circ}E$	$f^{\circ}S$	$f^{\circ}N$	$F^{\circ}E-M^{\circ}000$
00	0.0	0.0	0.1	0.1	3.1	3.1	2.3	2.3	2.3
01	0.2	0.0	0.2	0.2	3.1	3.1	2.3	2.3	2.3
02	0.2	0.0	0.3	0.3	3.1	3.1	2.3	2.3	2.3
03	0.2	0.0	0.4	0.4	3.1	3.1	2.3	2.3	2.3
04	0.2	0.0	0.5	0.5	3.1	3.1	2.3	2.3	2.3
05	0.6	0.0	0.6	0.6	3.1	3.1	2.3	2.3	2.3
06	0.9	0.0	0.6	0.6	3.1	3.1	2.3	2.3	2.3
07	1.2	0.0	0.7	0.7	3.1	3.1	2.3	2.3	2.3
08	1.4	0.0	0.8	0.8	3.1	3.1	2.3	2.3	2.3
09	1.7	0.0	0.9	0.9	3.1	3.1	2.3	2.3	2.3
10	1.7	0.0	1.0	1.0	3.1	3.1	2.3	2.3	2.3
11	1.9	0.0	1.1	1.1	3.1	3.1	2.3	2.3	2.3
12	2.1	0.0	1.2	1.2	3.1	3.1	2.3	2.3	2.3
13	2.2	0.0	1.3	1.3	3.1	3.1	2.3	2.3	2.3
14	2.2	0.0	1.4	1.4	3.1	3.1	2.3	2.3	2.3
15	2.2	0.0	1.5	1.5	3.1	3.1	2.3	2.3	2.3
16	2.2	0.0	1.6	1.6	3.1	3.1	2.3	2.3	2.3
17	2.2	0.0	1.7	1.7	3.1	3.1	2.3	2.3	2.3
18	2.2	0.0	1.8	1.8	3.1	3.1	2.3	2.3	2.3
19	2.2	0.0	1.9	1.9	3.1	3.1	2.3	2.3	2.3
20	2.2	0.0	2.0	2.0	3.1	3.1	2.3	2.3	2.3
21	2.2	0.0	2.1	2.1	3.1	3.1	2.3	2.3	2.3
22	2.2	0.0	2.2	2.2	3.1	3.1	2.3	2.3	2.3
23	2.2	0.0	2.3	2.3	3.1	3.1	2.3	2.3	2.3

Time: 120° .
Length of time sweep: 2 sec to 1 sec in one minute.
Average values.

Table 16 (provisional data)

Time	$h^{\circ}T_2$	$f^{\circ}T_2$	$h^{\circ}T_1$	$f^{\circ}T_1$	$h^{\circ}E$	$f^{\circ}E$	$f^{\circ}S$	$f^{\circ}N$	$F^{\circ}E-M^{\circ}000$
00	0.0	0.0	0.1	0.1	3.1	3.1	2.3	2.3	2.3
01	0.2	0.0	0.2	0.2	3.1	3.1	2.3	2.3	2.3
02	0.2	0.0	0.3	0.3	3.1	3.1	2.3	2.3	2.3
03	0.2	0.0	0.4	0.4	3.1	3.1	2.3	2.3	2.3
04	0.2	0.0	0.5	0.5	3.1	3.1	2.3	2.3	2.3
05	0.6	0.0	0.6	0.6	3.1	3.1	2.3	2.3	2.3
06	0.9	0.0	0.6	0.6	3.1	3.1	2.3	2.3	2.3
07	1.2	0.0	0.7	0.7	3.1	3.1	2.3	2.3	2.3
08	1.4	0.0	0.8	0.8	3.1	3.1	2.3	2.3	2.3
09	1.7	0.0	0.9	0.9	3.1	3.1	2.3	2.3	2.3
10	1.7	0.0	1.0	1.0	3.1	3.1	2.3	2.3	2.3
11	1.9	0.0	1.1	1.1	3.1	3.1	2.3	2.3	2.3
12	2.1	0.0	1.2	1.2	3.1	3.1	2.3</td		

Table 17 (provisional data)

Delhi, India (28°0'N, 77°20'E)

April, 1945

Time	h°F2	f°F2	h°F1	f°F1	h°E	f°E	Time
							P2-M3000
00	3.9				2.9		00
01	3.9				2.9		0.1
02	3.9				2.9		0.2
03	4.0				3.0		0.2
04	3.9				3.0		0.6
05	3.5				3.0		0.4
06	3.3				3.0		0.6
07	5.0				3.0		0.6
08	6.0				3.0		0.6
09	6.8				3.0		0.7
10	6.9				3.0		0.7
11	7.4				3.0		1.1
12	8.0				3.0		1.2
13	7.9				3.1		1.2
14	7.8				3.0		1.3
15	7.9				3.0		1.3
16	7.4				3.0		1.4
17	6.6				3.0		1.4
18	5.6				3.0		1.4
19	5.0				3.0		1.4
20	4.8				3.0		1.4
21	4.4				3.0		1.5
22	4.1				3.0		1.5
23	3.9				3.0		1.5

Time: 160°E.
Length of time sweep: 1.6 sec to 12.6 sec in two minutes.
Average values.

Table 19

Washington, D.C. (39.0°N, 77.5°W)

May, 1945

Time	h°F2	f°F2	h°F1	f°F1	h°E	f°E	Time
							P2-M3000
00	2.80	3.6			2.9	2.9	00
01	2.80	3.5			1.0	2.9	0.1
02	2.80	3.5			1.6	2.9	0.2
03	2.00	2.9			1.0	2.9	0.3
04	2.80	2.6			2.3	3.0	0.3
05	2.60	3.2			1.4	3.2	0.4
06	2.60	4.1	240		3.4	2.1	3.1
07	3.20	4.9	220		3.6	2.6	3.0
08	3.40	5.2	220	4.1	120	3.0	3.0
09	3.50	5.4	220	4.2	120	3.2	3.0
10	3.30	5.6	200	4.4	120	3.3	3.1
11	3.80	5.6	200	4.5	120	3.3	3.1
12	3.70	5.7	220	4.5	120	3.5	3.1
13	3.60	5.8	220	4.5	120	3.5	3.1
14	3.60	5.8	240	4.4	120	3.4	3.0
15	3.40	6.0	220	4.3	120	3.3	3.0
16	3.40	6.0	220	4.2	120	3.1	3.0
17	3.00	6.2	240	3.9	120	2.7	3.0
18	2.80	6.2	240	3.5	120	2.2	3.0
19	2.40	6.5			130	3.4	3.2
20	2.40	6.3				3.6	3.0
21	2.40	5.6				3.8	3.1
22	2.60	4.6				3.5	3.1
23	2.80	4.0				3.2	2.1

Time: 150°E.
Length of time sweep: 1.6 sec to 12.6 sec in two minutes.
Average values.

Table 20

(Additions and corrections to previously published provisional data)

Fairbanks, Alaska (64.9°N, 147.8°W)

April, 1945

Time	h°F2	f°F2	h°F1	f°F1	h°E	f°E	Time
							P2-M3000
00	2.80	3.6			2.9	2.9	00
01	2.80	3.5			1.0	2.9	0.1
02	2.80	3.5			1.6	2.9	0.2
03	2.00	2.9			1.0	2.9	0.3
04	2.80	2.6			2.3	3.0	0.3
05	2.60	3.2	140		3.4	2.1	3.1
06	2.60	4.1	240		3.6	2.1	3.1
07	3.20	4.9	220	3.6	120	2.6	3.0
08	3.40	5.2	220	4.1	120	3.0	3.0
09	3.50	5.4	220	4.2	120	3.2	3.0
10	3.30	5.6	200	4.4	120	3.3	3.1
11	3.80	5.6	200	4.5	120	3.3	3.1
12	3.70	5.7	220	4.5	120	3.5	3.1
13	3.60	5.8	220	4.5	120	3.5	3.1
14	3.60	5.8	240	4.4	120	3.4	3.0
15	3.40	6.0	220	4.3	120	3.3	3.0
16	3.40	6.0	220	4.2	120	3.1	3.0
17	3.00	6.2	240	3.9	120	2.7	3.0
18	2.80	6.2	240	3.5	120	2.2	3.0
19	2.40	6.5			130	3.4	3.2
20	2.40	6.3				3.8	3.1
21	2.40	5.6				3.5	3.1
22	2.60	4.6				3.2	2.1
23	2.80	4.0				2.5	2.0

Time: 150°W.
Length of time sweep: 0.8 sec to 14 sec in two minutes.
Median values.

Time: 150°W.
Length of time sweep: 10 sec to 0.5 sec in fifteen minutes.
Median values.

Table 18 (provisional data)

March, 1945

Delhi, India (28°0'N, 77°20'E)

April, 1945

Time	h°F2	f°F2	h°F1	f°F1	h°E	f°E	Time
							P2-M3000
00	3.9				2.9		00
01	3.9				2.9		0.1
02	3.9				2.9		0.2
03	4.0				3.0		0.6
04	3.9				3.0		0.4
05	3.5				3.0		0.6
06	3.3				3.0		0.6
07	5.0				3.1		0.7
08	6.0				3.0		0.8
09	6.8				3.0		0.9
10	6.9				3.0		0.6
11	7.4				3.0		0.9
12	8.0				3.1		1.2
13	7.9				3.1		1.2
14	7.8				3.0		1.3
15	7.9				3.1		1.3
16	7.4				3.1		1.4
17	6.6				3.1		1.7
18	5.6				3.0		1.8
19	5.0				3.0		1.6
20	4.8				3.0		2.0
21	4.4				3.0		2.1
22	4.1				3.0		2.2
23	3.9				3.0		2.3

(Additions and corrections to previously published provisional data)

Fairbanks, Alaska (64.9°N, 147.8°W)

April, 1945

Time: 150°W.
Length of time sweep: 10 sec to 0.5 sec in fifteen minutes.
Median values.

Table 21

(Additions and corrections to previously published provisional data)

Reykjavik, Iceland (64.1°N., 21.7°E.)

April, 1945

(Additions and corrections to previously published provisional data)
Churchill, Canada (68.8°N., 94.2°W.)
April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f'E	h'F2	f°F2	h'F1	f°F1	h'E	f'E	Time
00	-	-	-	-	3.0	-	-	-	00	-	2.95	-	4.7
01	-	-	-	-	5.4	-	01	-	01	-	3.10	-	4.0
02	-	-	-	-	3.8	-	02	-	02	-	3.20	-	4.0
03	-	-	-	-	3.2	-	03	-	03	-	3.40	-	3.9
04	-	-	-	-	3.1	-	04	-	04	-	3.40	-	3.6
05	215	-	-	-	3.1	-	05	-	05	-	3.35	-	3.5
06	-	-	-	-	3.2	-	06	-	06	-	3.60	-	3.6
07	-	-	-	-	-	-	07	-	07	-	4.1	-	3.0
08	-	-	-	-	-	-	08	-	08	-	4.40	-	3.0
09	-	-	-	-	-	-	09	-	09	-	4.20	-	3.0
10	300	-	-	-	-	-	10	-	10	-	4.20	-	3.0
11	-	-	-	-	-	-	11	-	11	-	2.95	-	3.1
12	5.0	-	-	-	-	-	12	-	12	-	4.00	-	3.2
13	5.1	-	-	-	-	-	13	-	13	-	4.00	-	3.1
14	325	200	-	-	85	0.1	-	-	13	390	-	-	3.1
15	325	5.1	210	-	3.0	-	-	-	14	390	-	-	3.0
16	310	-	-	-	-	-	15	-	15	-	3.65	-	3.0
17	-	-	-	-	-	-	16	-	16	-	3.40	-	3.0
18	-	-	-	-	-	-	17	-	17	-	3.30	-	3.0
19	-	-	-	-	-	-	18	-	18	-	3.30	-	3.0
20	-	-	-	-	-	-	19	-	19	-	2.95	-	3.0
21	-	-	-	-	-	-	20	-	20	-	4.00	-	3.0
22	-	-	-	-	-	-	21	-	21	-	2.95	-	3.0
23	-	-	-	-	-	-	22	-	22	-	2.90	-	3.0
	-	-	-	-	-	-	23	-	23	-	3.00	-	3.0

Time: 150°.
Length of time sweep: 2 sec to 10 sec in one minute.
Median values.

Table 23

(Additions and corrections to previously published provisional data)

Ottawa, Canada (45.6°N., 75.0°E.)

April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f'E	h'F2	f°F2	h'F1	f°F1	h'E	f'E	Time
00	295	-	-	-	3.0	-	00	-	00	-	2.75	-	2.9
01	340	-	-	-	3.0	-	01	-	01	-	2.70	-	3.0
02	260	-	-	-	3.0	-	02	-	02	-	2.75	-	3.0
03	350	-	-	-	3.5	-	03	-	03	-	2.75	-	3.0
04	350	-	-	-	3.0	-	04	-	04	-	2.70	-	3.0
05	32.0	-	-	-	3.0	-	05	-	05	-	2.50	-	3.2
06	24.0	-	-	-	3.3	-	06	-	06	-	2.58	-	3.4
07	24.0	-	-	-	2.4	-	07	-	07	-	4.42	-	3.0
08	22.0	-	-	-	2.4	-	08	-	08	-	4.7	-	3.0
09	21.0	4.2	12.0	2.7	4.9	-	09	-	09	-	5.02	-	3.0
10	21.0	4.3	11.0	3.0	5.1	-	10	-	10	-	5.4	-	3.0
11	19.0	4.5	11.0	3.0	5.2	-	11	-	11	-	5.7	-	3.1
12	19.0	4.5	11.0	3.1	5.1	-	12	-	12	-	5.3	-	3.1
13	18.0	4.5	11.0	3.1	5.4	-	13	-	13	-	5.3	-	3.0
14	21.0	4.4	11.0	3.3	5.3	-	14	-	14	-	3.25	-	3.1
15	31.0	4.3	11.0	3.1	5.1	-	15	-	15	-	6.3	-	3.2
16	29.0	4.1	11.0	2.9	4.4	-	16	-	16	-	3.00	-	3.1
17	29.0	3.7	12.0	2.5	3.8	-	17	-	17	-	2.70	-	3.2
18	25.0	4.0	11.0	3.1	5.0	-	18	-	18	-	4.4	-	3.0
19	24.0	6.2	-	-	-	-	19	-	19	-	6.4	-	3.1
20	24.0	5.6	-	-	-	-	20	-	20	-	5.2	-	3.0
21	25.0	-	-	-	-	-	21	-	21	-	2.50	-	3.0
22	26.0	-	-	-	-	-	22	-	22	-	2.62	-	3.0
23	28.6	-	-	-	-	-	23	-	23	-	2.80	-	2.9

Boston, Massachusetts (42.1°N., 71.2°W.)
April, 1945
(Additions and corrections to previously published provisional data)

Time	h'F2	f°F2	h'F1	f°F1	h'E	f'E	h'F2	f°F2	h'F1	f°F1	h'E	f'E	Time
00	275	-	-	-	3.2	-	00	-	00	-	3.2	-	2.9
01	340	-	-	-	3.0	-	01	-	01	-	2.70	-	3.0
02	260	-	-	-	3.0	-	02	-	02	-	2.75	-	3.0
03	350	-	-	-	3.5	-	03	-	03	-	2.75	-	3.0
04	350	-	-	-	3.0	-	04	-	04	-	2.70	-	3.1
05	32.0	-	-	-	3.0	-	05	-	05	-	2.50	-	3.2
06	24.0	-	-	-	3.3	-	06	-	06	-	2.58	-	3.4
07	24.0	-	-	-	2.4	-	07	-	07	-	4.42	-	3.0
08	22.0	-	-	-	2.4	-	08	-	08	-	4.7	-	3.0
09	21.0	4.2	12.0	2.7	4.9	-	09	-	09	-	5.02	-	3.0
10	21.0	4.3	11.0	3.0	5.1	-	10	-	10	-	5.4	-	3.0
11	19.0	4.5	11.0	3.0	5.2	-	11	-	11	-	5.7	-	3.0
12	19.0	4.5	11.0	3.1	5.1	-	12	-	12	-	5.3	-	3.1
13	18.0	4.5	11.0	3.2	5.0	-	13	-	13	-	5.3	-	3.0
14	21.0	4.4	11.0	3.3	5.3	-	14	-	14	-	6.1	-	3.1
15	31.0	4.3	11.0	3.1	5.1	-	15	-	15	-	6.3	-	3.2
16	29.0	4.1	11.0	2.9	4.4	-	16	-	16	-	3.00	-	3.1
17	29.0	3.7	12.0	2.5	3.8	-	17	-	17	-	2.70	-	3.2
18	25.0	4.0	11.0	3.1	5.0	-	18	-	18	-	4.4	-	3.0
19	24.0	6.2	-	-	-	-	19	-	19	-	6.4	-	3.1
20	24.0	5.6	-	-	-	-	20	-	20	-	5.2	-	3.0
21	25.0	-	-	-	-	-	21	-	21	-	2.50	-	3.0
22	26.0	-	-	-	-	-	22	-	22	-	2.62	-	3.0
23	28.6	-	-	-	-	-	23	-	23	-	2.80	-	2.9

April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f'E	h'F2	f°F2	h'F1	f°F1	h'E	f'E	Time
00	275	-	-	-	3.2	-	00	-	00	-	3.2	-	2.9
01	340	-	-	-	3.0	-	01	-	01	-	2.70	-	3.0
02	260	-	-	-	3.0	-	02	-	02	-	2.75	-	3.0
03	350	-	-	-	3.5	-	03	-	03	-	2.75	-	3.0
04	350	-	-	-	3.0	-	04	-	04	-	2.70	-	3.1
05	32.0	-	-	-	3.0	-	05	-	05	-	2.50	-	3.2
06	24.0	-	-	-	3.3	-	06	-	06	-	2.58	-	3.4
07	24.0	-	-	-	2.4	-	07	-	07	-	4.42	-	3.0
08	22.0	-	-	-	2.4	-	08	-	08	-	5.02	-	3.0
09	21.0	4.2	12.0	2.7	4.9	-	09	-	09	-	5.4	-	3.0
10	21.0	4.3	11.0	3.0	5.1	-	10	-	10	-	5.7	-	3.0
11	19.0	4.5	11.0	3.0	5.2	-	11	-	11	-	5.3	-	3.1
12	19.0	4.5	11.0	3.1	5.1	-	12	-	12	-	5.3	-	3.1
13	18.0	4.5	11.0	3.2	5.0	-	13	-	13	-	5.3	-	3.0
14	21.0	4.4	11.0	3.3	5.3	-	14	-	14	-	6.1	-	3.1
15	31.0	4.3	11.0	3.1	5.1	-	15	-	15	-	6.3	-	3.2
16	29.0	4.1	11.0	2.9	4.4	-	16	-	16	-	3.00	-	3.1
17	29.0	3.7	12.0	2.5	3.8	-	17	-	17	-	2.70	-	3.2
18	25.0	4.0	11.0	3.1	5.0	-	18	-	18	-	4.4	-	3.0
19	24.0	6.2	-	-	-	-	19	-	19	-	6.4	-	3.1
20	24.0	5.6	-	-	-	-	20	-	20	-	5.2	-	3.0
21	25.0	-	-	-	-	-	21	-	21	-	2.50	-	3.0
22	26.0	-	-	-	-	-	22	-	22	-	2.62	-	3.0
23	28.6	-	-	-	-	-	23	-	23	-	2.80	-	2.9

April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f'E	h'F2	f°F2	h'F1	f°F1	h'E	f'E	Time
00	275	-	-	-	3.2	-	00	-	00	-	3.2	-	2.9

Table 25

(Additions to previously published provisional data)

San Francisco, Calif. (37.8°N , 122.2°W)

April, 1945

Time	$\text{h}^{\circ}\text{F2}$	$\text{f}^{\circ}\text{F2}$	$\text{h}^{\circ}\text{F1}$	$\text{f}^{\circ}\text{F1}$	h°E	f°E	h°S	f°S	F2-M3000
00	290				1.8				
01	280								
02	280								
03	280								
04	270								
05	280								
06	250								
07	270								
08	270								
09	316								
10	340								
11	340								
12	330								
13	340								
14	330								
15	320								
16	305								
17	295								
18	270								
19	240								
20	220								
21	225								
22	240								
23	260								
24	280								

Time: 120°W .
Length of time sweep: 0.8 Mc to 12 Mc in six minutes. Record centered
on the hour.
Median values.

Table 27

(Additions and corrections to previously published provisional data)

Maui, Hawaii (20.8°N , 166.5°W)

April, 1945

Time	$\text{h}^{\circ}\text{F2}$	$\text{f}^{\circ}\text{F2}$	$\text{h}^{\circ}\text{F1}$	$\text{f}^{\circ}\text{F1}$	h°E	f°E	h°S	f°S	F2-M3000
00	5.0								
01									
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13	330		11.3						
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									

Time: 120°W .
Length of time sweep: 0.8 Mc to 1.9 Mc in three minutes thirty seconds.
Median values.

Table 28

(Additions and corrections to previously published provisional data)

San Juan, Puerto Rico (18.4°N , 66.1°W)

April, 1945

Time	$\text{h}^{\circ}\text{F2}$	$\text{f}^{\circ}\text{F2}$	$\text{h}^{\circ}\text{F1}$	$\text{f}^{\circ}\text{F1}$	h°E	f°E	h°S	f°S	F2-M3000
00	5.1								
01									
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									

Time: 90°W .
Length of time sweep: 1.9 Mc to 9.8 Mc in three minutes thirty seconds.
Median values.

Table 29

(Additions and corrections to previously published provisional data)

Baton Rouge, Louisiana (30.5°N , 91.2°W)

April, 1945

Time	$\text{h}^{\circ}\text{F2}$	$\text{f}^{\circ}\text{F2}$	$\text{h}^{\circ}\text{F1}$	$\text{f}^{\circ}\text{F1}$	h°E	f°E	h°S	f°S	F2-M3000
00	300								
01	300								
02	290								
03	290								
04	290								
05	290								
06	250								
07	280								
08	280								
09	280								
10	280								
11	280								
12	280								
13	280								
14	280								
15	280								
16	280								
17	280								
18	280								
19	280								
20	280								
21	280								
22	280								
23	280								

Time: 120°W .
Length of time sweep: 2 Mc to 16 Mc in one minute.
Median values.

Table 30

(Additions and corrections to previously published provisional data)

San Juan, Puerto Rico (18.4°N , 66.1°W)

April, 1946

Time	$\text{h}^{\circ}\text{F2}$	$\text{f}^{\circ}\text{F2}$	$\text{h}^{\circ}\text{F1}$	$\text{f}^{\circ}\text{F1}$	h°E	f°E	h°S	f°S	F2-M3000
00	5.1								
01									
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									

Time: 90°W .
Length of time sweep: 2.7 Mc to 11.4 Mc in twelve minutes.
Median values.

Table 31

(Additions and corrections to previously published provisional data)

Baton Rouge, Louisiana (30.5°N , 91.2°W)

April, 1946

Time	$\text{h}^{\circ}\text{F2}$	$\text{f}^{\circ}\text{F2}$	$\text{h}^{\circ}\text{F1}$	$\text{f}^{\circ}\text{F1}$	h°E	f°E	h°S	f°S	F2-M3000
00	300								
01	300								
02	300								
03	300								
04	290								
05	290								
06	250								
07	280								
08	280								
09	280								
10	280								
11	280								
12	280								
13	280								
14	280								
15	280								
16	280								
17	280								
18	280								
19	280								
20	280								

Table 30

Christmas I. (2.6°N., 157.0°W.)

April, 1945

(Additions and corrections to previously published provisional data)

Time	$h^{\circ}P_2$	$f^{\circ}P_2$	$h^{\circ}P_1$	$f^{\circ}P_1$	$h^{\circ}E$	$f^{\circ}E$	$h^{\circ}W$	$f^{\circ}W$	F_2-M_{2000}
00	220	9.2			2.1	3.2			
01	210	7.6			2.0	3.3	0.0	220	
02	230	6.5			3.3	0.1	230		
03	220	6.1			3.4	0.2	240		
04	220	5.0			3.4	0.3	240		
05	230	4.5			3.4	0.4	250		
06	230	3.5			3.3	0.5	270		
07	240	2.2			3.2	0.6	260		
08	220	7.8	115	2.3	3.2	0.7	240		
09	210	8.2	215		3.3	0.8	280	4.4	
10	310	0.0	200	4.6	7.5	2.6	09	310	230
11	330	5.0			3.0	2.6	10	320	220
12	330	3.4	195	4.7	3.2	2.6	11	340	220
13	320	3.4	205	4.7	3.2	2.6	12	360	210
14	320	3.0	206	4.8	7.5	2.6	13	340	210
15	320	9.1	200	4.5	7.4	2.7	14	320	210
16	290	9.7	200		7.4	2.7	15	300	210
17	220	9.4			7.3	2.6	16	230	
18	240	5.2			5.6	2.7	17	260	
19	270	9.0			2.8	2.8	18	280	
20	270	9.2			2.3	2.7	19	300	
21	260	9.0			2.5	2.7	20	280	
22	250	9.0			2.2	2.5	21	250	
23	240	3.2			2.8	2.2	22	230	
					5.2	2.3	23	230	7.6

Time: 150°.
Length of time sweep: 16 hr to 0.5° in fifteen minutes.
Median values.

Table 31

Hartotona I. (21.4°S., 159.6°W.)

April, 1945

(Additions and corrections to previously published provisional data)

Time	$h^{\circ}P_2$	$f^{\circ}P_2$	$h^{\circ}P_1$	$f^{\circ}P_1$	$h^{\circ}E$	$f^{\circ}E$	$h^{\circ}W$	$f^{\circ}W$	F_2-M_{2000}
00							00		
01		4.2					01	256	4.47
02		3.5					02		
03		3.5					03		
04		3.7					04	302	2.76
05							05	238	7.38
06							06	238	2.75
07	243	6.5					07	07	
08	254	9.1	227	4.3	3.0		08	248	9.27
09	266	10.2	230	4.7	3.3		09	10	216
10	266	10.1	233	4.4	3.1		10	250	4.37
11							11	11	215
12							12	297	4.60
13	286	9.4	234	4.8	3.4		13	14	243
14	286	7.2					14	14	243
15	263	5.2					15	15	243
16							16	16	243
17	243	9.0					17	17	241
18							18	18	241
19							19	19	
20							20	20	
21							21	21	
22							22	22	
23		4.7					23	23	

Time: 157.5°.
Length of time sweep: manual operation.
Average values.

Fuancayo, Peru (12°S., 75.3°W.)

April, 1945

(Additions and corrections to previously published provisional data)

Time	$h^{\circ}P_2$	$f^{\circ}P_2$	$h^{\circ}P_1$	$f^{\circ}P_1$	$h^{\circ}E$	$f^{\circ}E$	$h^{\circ}W$	$f^{\circ}W$	F_2-M_{2000}
00							00		
01							01	256	4.47
02							02		
03							03		
04							04	302	2.76
05							05	238	7.38
06							06	238	2.75
07							07	07	
08							08	248	9.27
09							09	10	216
10							10	250	4.37
11							11	11	215
12							12	297	4.60
13							13	13	243
14							14	14	243
15							15	15	243
16							16	16	243
17							17	17	241
18							18	18	241
19							19	19	
20							20	20	
21							21	21	
22							22	22	
23							23	23	

Time: 150°.
Length of time sweep: manual operation.
Average values.

Table 33

Brisbane, Queensland, Australia (27°5' S., 153°E.)

April, 1945

Kermadec Is. (29°20' S., 177°50' E.)

Table 34

April, 1945

F2-M3000

Time	$h^{\circ}F2$	$f^{\circ}F2$	$h^{\circ}F1$	$f^{\circ}F1$	$h^{\circ}E$	$f^{\circ}E$	$F2-M3000$	Time	$h^{\circ}F2$	$f^{\circ}F2$	$h^{\circ}F1$	$f^{\circ}F1$	$h^{\circ}E$	$f^{\circ}E$	$F2-M3000$
00	282	4.3			3.0			00	297	4.26					
01	279	4.2			3.0			01	293	4.16					
02	272	4.3			3.1			02	291	4.09					
03	268	4.4			3.2			03	276	4.11					
04	253	3.7			3.2			04	276	3.39					
05	252	3.5			3.2			05	269	3.69					
06	254	4.1			3.2			06	261	4.00					
07	222	5.9			3.5			07	257	6.21					
08	221	6.7			3.5			08	238	7.23					
09	252	7.7	213	4.4	110	2.9		09	251	7.41	223	4.09	115	2.35	3.4
10	249	3.6	210	4.0	107	3.1		10	271	7.12	226	4.30	112	2.11	3.4
11	350	7.9	204	4.0	108	3.2		11	271	7.12	210	4.43	112	1.9	3.0
12	260	7.4	199	4.0	108	3.2		12	271	7.12	214	4.52	110	3.25	3.4
13	251	3.1	137	4.0	108	3.2		13	279	7.91	224	4.60	112	3.20	3.5
14	252	2.5	212	4.5	111	3.2		14	252	8.15	256	4.42	113	3.17	3.5
15	254	5.5	216	4.2	112	2.6		15	265	8.03	236	4.26	114	2.98	3.4
16	230	7.9			120	2.5		16	255	8.11	244	3.79	115	2.66	3.5
17	219	7.2			21			17	242	7.23	117	2.22			
18	211	4.1			21			18	237	6.95					
19	211	3.3			21			19	238	5.76					
20	20	3.1			21			20	273	5.03					
21	206	4.6			21			21	275	5.04					
22	202	4.2			21			22	263	4.75					
23	202	3.3			23			23	275	4.41					

Time: 1300^c.
Search of tire sweep: 2.2 s to 12.5 s in two minutes thirty seconds.
-selected vehicles.

Table 35

April, 1945

Campbell Is. (52°5' S., 168°3' E.)

April, 1945

-airfield vehicles, 142. (43°5' S., 172°8' E.)

Table 35

April, 1945

F2-M3000

Time	$h^{\circ}F2$	$f^{\circ}F2$	$h^{\circ}F1$	$f^{\circ}F1$	$h^{\circ}E$	$f^{\circ}E$	$F2-M3000$	Time	$h^{\circ}F2$	$f^{\circ}F2$	$h^{\circ}F1$	$f^{\circ}F1$	$h^{\circ}E$	$f^{\circ}E$	$F2-M3000$
00	230	5.3			2.0			00	00						
01	230	5.2			2.0			01	01						
02	21	6.0			2.0			02	02						
03	230	2.3			2.7			03	02						
04	260	3.0			2.0			04	06						
05	260	2.9			2.5			05	06						
06	250	2.7			1.0			06	06						
07	240	4.5			100	1.8		07	240	4.3					
08	240	5.6			103	2.4		08	08						
09	260	6.0	240	3.3	100	2.0		09	238	5.9	217	3.6	125	2.6	3.4
10	260	6.4	240	4.0	103	2.3		10	238	5.9	217	3.6	125	2.6	3.4
11	270	7.0	220	4.2	100	3.0		11	253	6.6	210	4.0	124	2.9	3.4
12	270	7.0	250	4.2	103	3.0		12	259	7.0	218	4.2	123	2.9	3.4
13	270	6.7	240	4.2	100	3.0		13	263	6.7	221	3.7	119	2.9	3.3
14	285	6.7	240	4.1	100	2.3		14	257	6.7	257	5.2	136	2.3	3.3
15	275	6.3	240	3.3	100	2.6		15	252	6.7	20				
16	250	7.7	250	3.2	100	2.1		16	237	5.5					
17	240	6.4			100	2.5		17	229	6.2					
18	240	6.6			100	2.4		18	249	7.1					
19	250	6.2			100	2.3		19	257	5.7					
20	250	4.1			100	2.1		20	20						
21	250	3.1			100	2.0		21	288	4.0					
22	290	3.6			100	2.3		22	22						
23	290	3.4			100	2.3		23	25						

Time: 172°5' E.
Length of time site 2: 13 to 12 to in two minutes.
Median values.

Time: 165°3'.
Average values.

(Additions and corrections to previously published provisional data)

(Additions and corrections to previously published provisional data)

Table 38

Time: 15° N.
Length of time sweeten: 2 hrs to 16 hrs in one minute.

Timo: 00

Table 38

Time	$h\pi_2$	$f\pi_2$	$h\pi_1$	$f\pi_1$	h^1g	f^{0g}	f^{0g}	f_{Rg}	f_{Rg}	$P2-M5000$
00					2.4					
01					2.5					
02					2.5					
03					2.3					
04					1.9					
05					1.7					
06					2.6					
07					3.5					
08					4.0					
09					4.4					
10					4.3					
11					5.2					
12					5.4					
13					5.4					
14					5.5					
15					5.4					
16					5.2					
17					5.4					
18					5.1					
19					5.1					
20					4.7					
21					3.9					
22					3.0					
23					2.3					

Time: 0°.

Time	h^1F_2	h^1D_2	h^1F_1	h^1D_1	h^1E	h^1B	f^1R_8	f^1R_6	$P_2 - h^1D_2$
00	-	-	-	-	-	-	2.6	2.6	-
01	-	-	-	-	-	-	2.4	2.4	-
02	-	-	-	-	-	-	3.5	3.5	-
03	-	-	-	-	-	-	4.5	4.5	-
04	-	-	-	-	-	-	5.4	5.4	-
05	-	-	-	-	-	-	6.6	6.6	-
06	-	-	-	-	-	-	5.6	5.6	-
07	-	-	-	-	-	-	5.7	5.7	-
08	-	-	-	-	-	-	5.3	5.3	-
09	-	-	-	-	-	-	4.4	4.4	-
10	-	-	-	-	-	-	4.0	4.0	-
11	-	-	-	-	-	-	5.5	5.5	-
12	-	-	-	-	-	-	3.0	3.0	-
13	-	-	-	-	-	-	2.4	2.4	-
14	-	-	-	-	-	-	2.5	2.5	-
15	-	-	-	-	-	-	2.4	2.4	-
16	-	-	-	-	-	-	3.1	3.1	-
17	-	-	-	-	-	-	3.0	3.0	-
18	-	-	-	-	-	-	3.2	3.2	-
19	-	-	-	-	-	-	3.0	3.0	-
20	-	-	-	-	-	-	3.4	3.4	-
21	-	-	-	-	-	-	2.4	2.4	-
22	-	-	-	-	-	-	2.5	2.5	-

Time: 150°^o. Length of time sweep: Manual operation.

... Additions and corrections to previously published provisional data
for Oct. 1945 Australia (41.0°S, 147.0°E)

(Additions and corrections to previously published provisional data)
March, 1945
Tauranga I. (21.4°S, 159.0°E.)

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	F_{FB}	$F_{2-M5000}$
00	242	7.0						3.1
01	222	7.0						3.2
02	203	5.5						3.5
03	216	4.5						3.3
04	225	3.4						0.3
05	246	3.0						0.4
06	250	2.7						0.6
07	225	4.6						3.1
08	236	6.6	22.1	4.0	10.1	2.5		0.6
09	277	7.2	21.3	4.4	10.2	3.0		0.7
10	301	6.2	20.4	4.7	10.0	3.3		0.9
11	302	9.2	19.5	4.7	10.0	3.4		1.0
12	290	10.4	19.0	4.6	10.1	3.5		1.1
13	291	10.9	19.2	4.8	10.0	3.6		1.2
14	202	11.2	19.0	4.7	10.0	3.4		1.3
15	261	11.2	20.6	4.7	10.1	3.3		1.4
16	254	10.6	21.2	4.4	10.2	3.0		1.5
17	239	8.9	20.8	3.8	10.2	2.7		1.6
18	235	7.3						1.7
19	242	7.1						1.8
20	250	6.6						1.9
21	260	6.7						2.0
22	263	6.2						2.1
23	265	6.1						2.2
								2.3
								2.4
								2.5

Time: 150°E.
Average values.

Table 43

(Additions and corrections to previously published provisional data)
Christiansburg, N.Z. (43.5°S, 172.0°E.)

(Additions and corrections to previously published provisional data)
March, 1945
Tauranga I. (21.4°S, 159.0°E.)

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	F_{FB}	$F_{2-M5000}$
00	208	4.0						2.6
01	202							2.6
02	260	4.5						2.7
03	257							2.7
04	260	3.5						2.8
05	255	3.0						2.9
06	220	4.2						3.0
07	217	5.5						3.1
08	245	6.1	4.2	1.14	2.7			3.1
09	277		21.1	4.4	11.2	3.0		3.2
10	275	20.5	4.5	1.14	3.1			3.2
11	294	7.5	20.3	4.7	11.2	3.3		3.3
12	275	20.1	4.6	1.11	3.3			3.4
13	278	7.5	20.2	4.6	10.9	3.3		3.4
14	206	20.5	4.5	1.13	3.2			3.5
15	201	21.6	4.4	1.11	3.0			3.5
16	253		4.1	12.0	2.7			3.6
17	237	6.5						3.6
18	224							3.7
19	237	5.6						3.7
20	267							3.8
21	287							3.8
22	283							3.8
23	291							3.8

Time: 157.5°E.
Average values.

Table 44

(Additions and corrections to previously published provisional data)
Christchurch, N.Z. (43.5°S, 172.0°E.)

(Additions and corrections to previously published provisional data)
March, 1945
Tauranga I. (21.4°S, 159.0°E.)

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	F_{FB}	$F_{2-M5000}$
00	260	3.9						2.6
01	250	3.7						2.6
02	250	3.5						2.7
03	250	3.2						2.7
04	240	2.6						2.8
05	260	2.4						2.9
06	240	2.2						3.0
07	235	4.5						3.1
08	250	5.3						3.1
09	280	5.7						3.2
10	270	6.2						3.2
11	275	6.3						3.2
12	290	6.5						3.3
13	290	6.6						3.4
14	290	7.0						3.5
15	275	6.4						3.5
16	255	6.3						3.5
17	240	6.1						3.6
18	240	6.2						3.6
19	240	6.2						3.6
20	240	5.8						3.6
21	250	5.2						3.6
22	250	4.8						3.6
23	250	4.2						3.6

Time: 150°E.
Length of time sweep: 2.2 hr to 12.5 hr in two minutes thirty seconds.
Average values.

Time: 172.5°E.
Length of time sweep: 2.6 hr to 12 hr in two minutes.
Median values.

Table 46
(Additions and corrections to previously published provisional data)

Campbell I. (52°5'S., 169°0'E.)						March, 1945						Baffin I. (70°5'N., 68°6'W.)						February, 1945									
Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F
00							00							00													
01							01							01													
02							02							02													
03							03							03													
04							04							04													
05							05							05													
06							06							06													
07							07							07													
08							08							08													
09							09							09													
10							10							10													
11							11							11													
12							12							12													
13							13							13													
14							14							14													
15							15							15													
16							16							16													
17							17							17													
18							18							18													
19							19							19													
20							20							20													
21							21							21													
22							22							22													
23							23							23													

Time: 166°E.
Average values.

Time: 75°W.
Length of time sweep: 2 sec to 16 sec in one minute.

Table 47
Median values.

Cape York, Australia (11°0'S., 142°4'E.)						February, 1945						Baffin I. (70°5'N., 68°6'W.)						February, 1945									
Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F
00	245	7.6					00	245	7.6					00	245	7.6											
01	212	7.1					01	220	6.2					01	223	5.3											
02							02							02													
03							03							03													
04							04							04													
05							05							05													
06							06							06													
07							07							07													
08							08							08													
09							09							09													
10							10							10													
11							11							11													
12							12							12													
13							13							13													
14							14							14													
15							15							15													
16							16							16													
17							17							17													
18							18							18													
19							19							19													
20							20							20													
21							21							21													
22							22							22													
23							23							23													

Time: 150°E.
Average values.

Table 48

(Additions and corrections to previously published provisional data)

Baffin I., Canada (70.5°N, 68.6°E) January, 1945

Table 49

Sverdlovsk, U.S.S.R. (56°7'N, 61°1'E) January, 1945

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	F2-M3000
00	270	2.3					
01	270	2.8					
02	270	2.8					
03	270	2.3					
04	260	2.8					
05	260	2.4					
06	270	2.4					
07	280	2.2					
08	230	3.6					
09	210	5.2					
10	210	6.0					
11	210	6.3					
12	210	6.5					
13	210	6.3					
14	210	5.9					
15	210	5.3					
16	210	4.9					
17	210	3.8					
18	230	2.3					
19	250	2.2					
20	270	2.1					
21	270	2.4					
22	270	2.6					
23	260	2.6					

Time, 175°C.
Length, mm.
Length of time sweep: 2 sec to 16 sec in one minute.
Median values.

Time, 600°
f^oP₂ median values; others average values.

RESTRICTED

TABLE 51
IONOSPHERE DATA-2
Washington, D. C.

Ionosphere Station

(Location)

National Bureau of Standards
(Institution)

Hourly values of F_2 in Mo for May 1945
TIME: 75° W MERIDIAN

Records measured by: S.M.O.
A.F.

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	5.1	4.6	4.2	3.8	2.8	3.1	4.1	5.2	5.6	6.8	7.0	6.4	6.4	6.4	6.8	6.7	6.8	6.6	6.8	6.6	6.6	5.6	5.0			
2	4.9	4.5	(4.4)	3.6	2.9	3.0	3.6	4.7	5.4	6.4	6.4	6.4	6.4	6.5	6.5	6.8	6.8	6.8	6.6	6.6	5.7	5.5	5.1			
3	5.0	4.5	4.3H	3.5	2.6	(2.9)	4.5	5.2	5.3	5.6	5.4	5.6	6.0	5.8	6.0	5.6	6.3	6.2	5.8	6.5	6.3	5.9	5.1	4.8		
4	4.0	3.6	(3.4)	[2.9]A	[2.7]A	3.4	[4.8]A	5.4	5.8	5.7	5.8	6.4	6.4	6.0	6.6	(7.2)	6.4	6.7	6.5	6.4	6.6	5.6	5.1	4.6		
5	4.1	3.6	3.4	3.2J	3.2	3.3	4.7	5.6	[5.8]C	5.6	5.7	5.4	5.8	5.7	6.4	6.4	6.4	6.6	6.6	6.8	5.6	4.3	3.7			
6	3.1	(2.9)	2.8	2.9	2.8	3.2	4.8	(5.5)	5.0	5.0	5.0	[5.2]C	5.0	5.3	5.4	5.7	5.5	5.5	5.8	6.0	5.2	3.9	2.9	2.2F		
7	2.3F	2.3F	2.3	[2.5]A	2.3	3.0	4.1	5.0	5.5	5.5	5.4	5.6	5.5	5.8H	5.7	5.7	5.8	6.2	6.6	[7]A	(7.2)	6.0	4.4F	3.9		
8	3.7F	3.3	3.0	2.7F	2.4F	3.0	3.9	4.3	5.2	5.4	[5.6]B	6.2	6.2	5.8	5.7	5.6	6.0	6.3	(6.6)	(6.4)	5.1	3.9	3.3			
9	3.2	3.1	2.8	2.6	3.3	4.9	5.6	6.3	6.0	6.2	5.8	6.6	6.0	6.6	6.6	6.6	6.6	(7.4)K	8.0K	(8.4)K	(8.0)K	(7.6)K	4.6K	3.9K		
10	3.5K	3.1K	2.7K	2.2K	2.2K	3.1K	4.0K	4.0K	4.8K	4.5K	<4.2K	4.7K	4.6K	4.8K	5.0K	5.0K	5.4K	5.5K	6.0K	6.0K	5.8K	4.8K	[3.6]K	3.1K		
11	4.9K	[1.7]A	1.6K	1.9K	(1.7)K	2.6K	3.5K	4.1K	4.2K	<4.0K	4.4K	4.8K	4.5K	<4.1K	<4.1K	4.0K	4.4K	4.6K	4.6K	4.6K	5.0K	5.0K	3.8K	2.6K		
12	2.5K	2.5K	2.4K	(2.0)K	1.9	C	C	C	C	5.5	5.8	5.6	5.8	5.8	6.6	6.6	6.6	7.0	7.2	7.4	(7.0)	5.8	4.0	2.5		
13	2.2	2.1	1.9	1.7	1.7	3.0	3.6	3.9	<4.0G	4.5	5.5	5.5	5.6	5.9	6.7	6.6	6.4	5.4	5.4	5.8	5.6	5.2	4.1	3.4		
14	3.1	2.5	2.1F	2.0F	1.9F	(2.9)	3.7	4.2	4.4	5.0	4.9	5.8	6.8	[6.1]A	(6.0)	C	C	5.9	[6.0]A	(5.9)	5.4	4.6	3.6	2.8		
15	2.2	2.1	2.4	2.4	2.4	3.1	4.0	4.5	4.6	4.9	4.8	5.1	5.5	5.7	5.7	5.6	5.6	5.6	5.6	5.9	5.9	5.5	4.8	4.0		
16	3.8	3.5	3.4	2.8	A	3.8	4.5	4.9	5.1	5.6	5.5	5.5	5.7	5.1	5.3	5.4	5.6	5.6	5.6	6.2	6.2	6.6	5.6	5.1	4.5	4.0
17	3.7	3.4	2.9	2.5	2.0	3.0	4.1	4.9	4.6	5.1	5.0	5.6	5.4	5.8	5.8	5.8	6.0	6.2	6.6	5.9	5.7	4.5	3.7	3.3		
18	3.1	2.9	[2.6]C	2.3	1.9	3.2	3.9	[4.2]C	[4.4]C	[4.8]C	[4.9]C	5.0	5.5	5.8	6.0	6.2	5.8	6.3	(6.8)	(7.2)	(7.4)	5.6	4.6	4.0		
19	3.7	3.4	3.2	3.0	2.6F	2.9	3.8	4.3	4.5	4.9	4.9	<4.4G	4.9	4.9	5.4	5.5	A	A	6.2	6.0	[5.6]A	4.7	3.9	3.5		
20	3.4	3.2	2.3	2.3	2.4	3.1	4.1	5.3	4.9	5.0J	5.9	(6.0)	5.5	6.4	6.0	6.3	6.0	6.0	6.5	6.4	5.8	4.9	4.6			
21	4.0	3.7	3.4	3.0	2.7	3.3	4.4	4.9	5.3	5.1	5.5	5.5	5.8	6.1	5.7	5.8	5.6	5.8	6.0	5.3	4.9	4.4				
22	3.9F	3.6F	3.3F	3.2	3.0F	3.8	4.8	5.4	[5.7]A	[5.7]A	[5.7]A	5.5	5.7	C	C	6.2	6.3	6.3	6.7	(7.0)	7.0	5.9	4.4	4.0		
23	3.8	3.3	2.9	2.8	3.0	3.6	4.8	5.4	5.4	6.2	(6.1)	6.2	6.6	(6.2)	(6.3)	(6.5)	6.4	(6.6)	(6.8)	6.7	5.7	5.2	4.8			
24	4.6	4.1	4.1	3.5	3.1	3.4	C	C	C	C	C	C	C	C	C	C	5.5	6.3	(6.6)	(6.6)	6.0	(5.7)	4.7	(4.7)		
25	4.2	(4.3)	(3.7)	3.5	3.3	[3.6]A	(4.4)X	(4.7)X	(4.7)X	<4.28	<4.39	(4.7)X	<4.48	C	C	C	C	5.6	5.7	5.7	5.7	5.7	4.8	(4.6)		
26	4.1	3.5	3.4	3.1	2.7F	(3.8)	4.6	5.5	(5.9)	6.2	[6.2]A	(5.7)	C	C	C	C	6.3	6.7	(6.7)	(6.7)	(6.6)	5.8	5.5	4.9		
27	4.7	4.4	4.2	3.9	3.5	4.7	5.1	(5.2)	(5.7)	6.3	[6.6]C	(6.6)	(6.7)	(6.7)	(6.7)	(6.7)	(6.6)	(5.6)J	(6.7)	(6.7)	(6.3)	5.6	4.8			
28	4.7	4.4	3.6	3.3	(3.6)	4.3	4.9	(5.0)	5.5	5.6	5.8	6.0	(6.2)	(6.7)	6.2	6.0	(6.4)	6.8	6.2	(5.8)	5.6	5.1				
29	5.1	4.9	4.4	4.1	3.4	4.5	4.9	(5.3)	5.2	5.3	5.1	5.3	5.3	[5.8]C	5.9	5.7	5.8	5.7	5.6	6.2	5.8	5.4	(4.7)A			
30	4.5	4.4	3.6F	(3.8)	3.5	3.4	4.1	4.6	5.3	5.6	6.5	6.0	6.2	6.4	6.4	6.4	6.4	(6.4)	(6.4)	6.3	5.7	5.1				
31	4.8	4.3	3.9	3.6	3.3	3.2	<3.4G	4.3	5.0	(4.7)	5.1	(5.4)	(5.6)A	(5.7)	(5.7)	(5.6)	5.8	5.8	5.8	(6.0)	5.5	(4.8)F	(4.0)F			
Sum	3.8	3.5	3.3	2.9	2.6	3.2	4.1	4.9	5.2	5.4	5.6	5.6	5.7	5.8	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6	4.0			
Median	3.8	3.5	3.3	2.9	2.6	3.2	4.1	4.9	5.2	5.4	5.6	5.6	5.7	5.8	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6	4.0			

Washington, D.C.
 (Location)
National Bureau of Standards
 (Institution)

TABLE 52
 IONOSPHERE DATA-3

Ionosphere Station

TIME: 75° W MERIDIAN
 (Institution)

Half hourly values of f_{F2} in Mo for May 5
 (Month) 1945
 A.F.

Records measured by S.M.O.

RESTRICTED

Day	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330					
1	4.9	4.4	3.9	3.3	(2.8)	4.0	5.0	5.6	6.4	6.8	6.8	6.8	6.7	6.6	(6.8)	6.8	6.7	6.6	5.8	5.4	F	5.0	4.7						
2	4.6	4.4	4.1	3.2	2.7	3.5	4.2	4.9	6.3	6.2	6.7	6.4	6.4	6.6	6.7	6.8	6.4	6.8	6.0	5.6	5.2	5.2	4.2						
3	4.8	4.5	3.8	3.0	2.4	4.0	(5.0)	(5.2)	5.4	5.4	5.5	5.5	5.9	5.8	5.6	6.2	6.1	6.4	6.6	6.2	5.4	4.8	4.2						
4	3.8	3.4	3.4	(2.4)	2.5	3.9	5.0	5.6	5.6	5.6	(5.6)	6.6	5.8	(5.9)	(6.9)	6.6	6.4	6.4	6.4	5.9	5.6	4.7	4.2						
5	[4.0] ^c	3.5	3.4	3.3	2.9	4.1	4.9	[5.7] ^c	5.8	[5.7] ^c	5.7	5.6	(5.7) ^c	6.4	6.4	6.4	6.4	7.0	6.8	6.2	5.0	4.2	3.4						
6	2.9	[2.8] ^a	2.8	2.7	2.8	3.9	5.2	5.1	5.2	5.0	5.2	5.1	5.1	5.3	5.5	5.6	5.2	5.5	5.9	5.8	4.5	3.2	2.3						
7	2.3	F	2.3	[2.4] ^a	2.3	2.4	3.3	4.6	5.2	5.7	5.2	5.6	5.6	5.6	5.7	5.8	6.0	6.2	7.0	(7.0)	6.4	5.5	4.1	3.8					
8	3.4	F	3.2	2.9	2.6	2.6	3.3	4.1	4.6	5.4	5.2	5.5	5.6	6.2	6.2	5.7	5.6	6.0	6.2	6.4	6.6	5.8	4.4	3.4	3.2				
9	3.1	2.9	2.6	2.6	2.6	4.0	5.2	5.8	5.7	5.9	6.2	6.4	6.4	6.6	6.5	6.6	6.6	K	[7.9] ^c	8.2	(8.6) ^c	(7.8) ^c	5.7	K	4.2	3.8			
10	3.3	K	2.8	K	2.5	K	2.3	K	2.2	K	3.5	K	4.8	K	4.8	K	5.1	K	5.3	K	5.5	K	5.5	K	4.1	K	3.2		
11	2.4	K	(1.6) ^c	1.8	K	2.0	K	3.2	K	3.8	K	4.1	K	<4.0	K	4.3	K	<4.2	4.3	K	4.7	K	4.8	K	5.3	K	4.4	K	2.7
12	2.5	K	2.4	K	2.3	K	2.1	K	C	C	C	C	5.6	5.7	5.4	5.4	5.2	<4.1	<4.1	4.3	K	4.5	K	4.7	K	3.1	K	2.7	
13	2.1	2.0	2.1	1.7	1.6	1.9	3.2	(3.6)	<4.0	<4.0	<4.1	4.7	5.1	5.5	5.7	6.4	6.4	6.4	6.4	6.2	5.6	5.8	5.7	5.4	4.9	3.8	3.3		
14	2.6	2.4	(2.1) ^F	1.9	F	(2.2)	3.5	4.0	[4.3] ^a	4.9	4.5	5.7	[6.1] ^c	[6.8] ^c	(5.8)	A	C	C	6.0	(6.0)	[6.0]	[6.0]	5.8	5.3	4.4	3.2	2.5		
15	2.2	(2.1)	2.4	2.4	2.2	(3.7)	4.2	4.6	4.7	(4.9)	5.1	5.1	5.1	5.6	5.5	5.6	5.6	5.7	6.2	5.8	5.8	5.0	4.5	4.1	3.8				
16	3.8	3.3	3.0	3.0	3.6	A	3.5	4.2	4.6	5.5	5.7	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.5	5.8	6.4	6.6	(6.2)	[5.3] ^c	5.3	4.3			
17	3.5	3.1	2.9	2.2	2.3	3.5	4.6	4.8	5.0	5.1	(5.0)	5.6	5.4	5.8	5.8	5.9	5.9	5.7	6.4	6.7	[6.3] ^c	5.8	5.1	3.9	3.6	3.1			
18	3.1	2.8	2.3	2.0	2.4	3.4	[4.2] ^c	[4.2] ^c	[4.2] ^c	[4.8] ^c	[4.8] ^c	[5.2] ^c	5.3	5.7	5.7	5.8	5.9	5.9	6.8	(7.0)	[7.4] ^c	6.6	5.0	4.2	3.6				
19	3.4	F	3.2	2.8	F	2.7	3.4	3.9	4.5	4.8	4.6	<4.4	4.8	4.9	4.9	5.6	5.3	5.2	A	A	[6.1] ^a	[5.7] ^a	[5.2] ^a	4.2	3.6	3.5			
20	3.4	2.7	2.4	2.4	2.4	3.3	3.4	3.4	3.6	4.8	5.6	5.5	(6.3)	6.0	5.8	6.2	6.2	6.0	6.2	6.8	6.5	6.3	5.2	4.7	4.3				
21	3.8	3.4	3.2	2.8	2.6	3.9	4.3	5.5	5.5	5.3	5.5	5.5	5.7	5.5	5.6	5.6	5.8	5.8	5.7	5.9	5.8	5.0	4.5	4.1					
22	3.7	F	3.5	3.2	F	3.1	3.0	4.1	5.1	(5.7)	5.7	[5.7] ^c	(5.6)	C	C	(5.8)	6.4	(6.3)	6.4	(6.8)	(6.8)	6.7	5.1	4.2	3.9				
23	3.5	3.1	2.9	3.0	3.1	4.2	4.8	(6.2)	(6.1)	(6.6)	(6.4)	(6.4)	(6.7)	(6.1)	(6.4)	6.4	6.4	6.4	(7.0)	(6.8)	6.0	5.4	4.8	4.7					
24	4.3	4.1	3.8	3.3	3.0	C	C	C	C	C	C	C	C	C	C	C	(5.6)	5.7	5.6	5.8	6.6	6.6	(6.6)	5.8	5.3	(4.6)			
25	(4.4)	4.1	3.6	3.3	(3.1)	4.1	4.3	K	[4.2] ^a	<4.2	6	6.0	(4.9)	<4.4	5.5	5.5	5.6	5.9	5.4	5.6	5.5	5.8	5.0	4.6	4.3				
26	4.1	3.6	3.2	2.9	3.0	4.8	(5.4)	6.0	(6.0)	(5.4)	[5.9] ^a	[5.7]	[6.5] ^c	(6.6)	C	C	(6.3)	(6.2)	(6.4)	(6.5)	(6.5)	(6.1)	5.8	5.2	4.8				
27	4.4	4.3	3.9	3.5	3.5	(4.5)	(5.1)	(5.8)	(5.7)	[6.5] ^c	(6.6)	[6.7] ^a	(6.3)	(6.0)	(5.8)	(5.7)	(5.8)	(5.8)	(6.8)	(6.7)	(6.4)	6.2	5.2	4.9					
28	4.6	4.1	3.5	3.4	3.4	3.8	4.7	(5.1)	(5.4)	5.6	[5.9] ^c	6.0	6.3	6.3	5.9	(6.1)	(6.1)	(6.1)	(6.6)	6.0	5.7	5.2	5.4						
29	5.0	4.7	4.4	3.6	3.4	4.1	4.6	4.9	5.4	(5.3)	[5.2] ^a	5.2	[5.5] ^c	5.8	5.8	5.8	5.6	5.8	(6.2)	(5.4)	(5.2)	4.5							
30	4.4	(3.9)	[3.8] ^a	3.3	3.1	F	3.5	4.4	5.1	5.5	6.0	(6.0)	(5.5)	5.7	5.5	6.1	6.8	6.6	(6.2)	(6.4)	5.2	5.0							
31	4.4	4.4	3.7	3.4	3.1	(3.6)	4.2	5.0	(5.1)	(4.9)	[5.7] ^a	A	[5.7] ^a	(5.6)	(5.4)	5.5	5.6	(5.6)	[5.7] ^a	5.7	(5.6)	(4.5)	3.8						
Median	3.7	3.3	3.0	2.8	2.7	3.7	4.6	5.0	5.4	5.5	5.6	5.7	5.8	5.8	5.8	6.0	6.2	6.4	6.5	5.8	5.2	4.3	3.9						

RESTRICTED

TABLE 67
IONOSPHERE DATA-4

Washington, D.C. Ionosphere Station
Location

National Bureau Of Standards
(Institution)

TIME: 75° W MERIDIAN

h_{F_1} in km for May 1945
(Month)

Hourly values of S.I.U.O.
A.F.

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
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24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								

Meters

RECORDED BY: S.I.U.O.

A.F.

TABLE 54
IONOSPHERE DATA - 5
Washington, D.C. Ionosphere Station
(Location)
National Bureau Of Standards
(Institution)

TIME : 75° W MERIDIAN

Hourly values of f_1^o in Mc for May 1945

(Month)

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
1									3.9	4.3	4.5	4.6	4.7	4.8	[4.8] ^c	4.6	4.5	4.2									
2									4.4 ^H	4.3	4.5	4.5	6.7	4.7	4.7	4.5	4.4	4.2	A								
3									(4.3)		4.5	4.5	4.6	4.6	4.6	4.5	4.4	4.2	3.8	3.4							
4									4.1	4.4	4.5	4.6	4.6	4.6	4.6	4.6	(4.2)	4.2									
5									3.8	[4.0] ^c	4.3	4.4	4.6	4.5 ^H	[4.5] ^B	4.3	4.3	4.2	3.8	3.3							
6									(3.7)	4.1	4.2	4.3	[4.4] ^C	[4.6] ^B	4.4 ^H	4.2	4.3	4.1	3.8								
7									3.3	3.7	4.0	4.2	4.3	4.4	4.4 ^H	4.5 ^H	4.4	4.2	4.1	3.9	A						
8									3.8 ^r	3.9	4.1	4.4	[4.4] ^B	4.5	4.4	4.3	4.2	4.1	3.8	A							
9									3.3	3.8 ^r	4.1	4.3	4.4	4.5	4.5	4.4	4.3	4.2	3.9 ^K	K							
10									3.7 ^K	3.9 ^K	4.1 ^K	4.2 ^K	4.3 ^K	4.2 ^K	3.8 ^K	[3.6] ^K	3.3 ^K										
11									K	3.9 ^K	4.0 ^K	4.1 ^K	4.1 ^K	4.1 ^K	4.1 ^K	4.0 ^K	3.9 ^K	3.6 ^K	3.3 ^K								
12									C	C	C	4.2	4.3	4.5	4.5	4.4	4.3	4.2	4.1	3.7	[3.2] ^A						
13									3.6	4.0	4.1	4.1	4.4	4.4	4.3	4.3	4.2	4.1	3.6	3.4							
14									4.1	4.2	4.4	4.4	[4.4] ^B	[4.4] ^B	A	C	C	C	3.8	A							
15									3.8	4.0	4.3 ^H	4.3	4.4	4.5	4.5	4.4	4.3	4.1	3.8	[3.3]							
16									3.4	(3.7)	4.2	4.2	4.5	4.5	4.5	4.5	4.4	4.3	4.1	3.9	3.5						
17									3.7	4.0	4.3	4.3	4.4	4.5	4.5	4.5	4.4	4.3	4.2	4.1	3.6	3.4					
18									3.5 ^H	[3.6] ^C	[4.0] ^C	[4.2] ^C	[4.3] ^C	4.5	4.5	4.5	4.4	4.3	4.2	3.8	(3.4)						
19									3.3	A	4.0	4.1	4.4 ^H	4.4	4.5	4.5	4.4	4.3	4.1	3.8	[3.5]						
20									3.7	4.2	4.4	4.5	4.7 ^H	4.5	4.5	4.4	4.4	4.3	4.2	3.9	3.5						
21									3.9	4.4	4.3	4.4	4.5	4.5	4.5	4.5	4.4	4.4	4.1	3.9	3.5						
22									4.0	[4.1] ^A	A	A	4.6	4.6	C	C	C	C	4.3	4.0	3.5						
23									(3.5)	(4.1) ^H	4.3	4.4	4.6	4.6 ^H	4.7	4.6	4.5	4.2	4.0	3.6							
24									C	C	C	C	C	C	C	C	C	4.2	3.9	3.5							
25									K	(3.8) ^X	[4.1] ^X	(4.2) ^X	(4.3) ^X	(4.4)	4.4	4.4	4.4	4.2	4.0	(3.4)							
26									4.1	4.3	A	A	(4.5)	[4.5] ^C	[4.5] ^C	[4.5] ^C	[4.5] ^C	4.3	4.2								
27									(3.6)	(4.1)	[4.2] ^C	4.4	(4.5)	(4.6)	(4.6)	(4.6)	(4.6)	(4.4)	4.3	4.2							
28									3.6	3.9	4.2	4.4	(4.5)	4.6	4.6	4.6	4.6	4.4	4.2	4.1	3.6						
29									4.0	4.1	4.2	4.4	[4.4] ^H	4.6	4.6	4.6	4.6	4.4	4.3	4.0 ^H	3.5						
30									4.1	4.3	4.5	4.5	[4.5] ^A	(4.5)	4.6	4.5	4.4	4.2	4.1	3.6							
31									(3.4)	3.9	4.3	4.2	4.5	4.5	[4.6] ^A	(4.6)	(4.5)	4.4	4.2	4.0	A						
									3.4	3.8	4.1	4.2	4.4	4.5	4.5	4.4	4.3	4.2	3.9	3.5							

Median

Records measured by S.M.O.
A.F.

Washington, D. C.		Ionosphere Station		National Bureau Of Standards		Ionosphere Data-6		TIME: 75°W MERIDIAN		May		1945		REstricted	
(Location)	(Institution)							Hourly values of $\frac{h}{E}$ in $\frac{m}{km}$	for Month	1945	Month	Records measured by S. M. O. A. F.			
Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1								120	120	120	120	120	120	120	120
2								120 H	120	110	120	120	120	120	120
3								120	120	120	120	120	120	120	120
4								120	120	120	120	120	120	120	120
5								120 [120]C	110	110	120	120	120	120	120
6								120	120	120	120	120	120	120	120
7								120	120	120	120	120	120	120	120
8								120	110	120	120	120	120	120	120
9								120	120	120	110	120	120	120	120
10								K	120 X	120 X	120 X	120 X	120 X	120 X	120 X
11								K	120 X	120 X	120 X	120 X	120 X	120 X	120 X
12								C	C	120	120	120	120	120	120
13								120	120	120	120	120	120	120	120
14								120	120	120	120	120	120	120	120
15								120	120	120	120	120	120	120	120
16								120	120	120	120	120	120	120	120
17								120 H	120	120	120	120	120	120	120
18								120	120	120	120	120	120	120	120
19								120	120	120	120	120	120	120	120
20								120	120	120	120	120	120	120	120
21								120	120	110	120	120	120	120	120
22								120	110	120	110	110	C	120	120
23								120	120	110	120	110	110	120	120
24								120	120	120	120	120	120	120	120
25								120 X	110 X	120 X	110 X	120 X	120 X	120 X	120 X
26								110	120	120	110	110	120	120	120
27								120	100	110	110	120	120	120	120
28								120	110	120	110	110	110	120	120
29								110	120	110	120	100	110 C	120	120
30								110	110	120	110	120	110	120	120
31								120	110	120	110	120	120	120	120
								Sum							
								Median							

TABLE 56

IONOSPHERE DATA - 7

Washington, D.C. Ionosphere Station

(Location)

National Bureau Of Standards

(Institution)

IONOSPHERE DATA - 7
Records measured by S.M.O.
A.F.

TIME: 75° W MERIDIAN

Day	Hourly values of f_E for												May 1945														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
1								A	2.7	3.1	3.4	[3.2]A	A	C	A	3.4	3.1	2.7	(2.2)								
2								2.1	2.6	2.9	A	A	(3.5)	A	A	3.3	3.1	2.7	(2.0)								
3								1.9	2.5	2.8	[3.2]A	(3.2)	3.5	[3.5]B	[3.3]B	3.2	3.0	2.6	2.2								
4								2.0	2.5	3.0	3.2	A	A	B	A	3.4	(3.2)	2.7	2.2								
5								2.0	2.5	[2.9]C	3.2	C	B	B	3.5	3.3	3.0	2.6	(2.0)								
6								1.9	[2.5]A	[2.8]A	[3.2]A	3.4	A	B	3.4	3.3	3.0	2.6	2.0								
7								(1.9)	2.6	[3.0]A	3.2	3.3	[3.3]B	(3.3)	[3.4]B	3.4	3.2	3.1	2.7	A							
8								2.0	2.6	2.8	3.1	A	A	A	[3.4]B	3.3	3.2	3.0	2.6	(2.0)							
9								(1.9)	2.5	2.8	3.1	3.2	[3.3]B	(3.5)	[3.5]B	3.5	3.3	3.0	2.6	K							
10								K	2.1	K	2.4	K	2.9	K	3.3	K	3.3	K	3.3	K	3.2	K	2.9	K	2.5	K	
11								K	(1.8)K	2.4	K	2.8	K	3.0	K	(3.2)K	[3.2]A	3.2	K	3.2	K	3.0	K	2.7	K	2.4	K
12								C	C	C	3.0	3.2	3.3	3.4	3.4	3.4	3.2	3.0	2.6	2.2							
13								2.0	2.5	2.9	3.0	A	A	A	B	3.3	3.2	3.0	2.6	2.1							
14								2.1	(2.6)	2.9	3.1	3.3	3.2	A	A	A	C	C	A	(2.1)							
15								2.1	[2.6]A	(2.9)	3.2	3.3	B	A	A	A	A	A	A	2.0							
16								A	A	A	A	B	A	A	A	A	(3.2)	3.0	A	A							
17								1.3	H	2.1	2.6	2.9	.3.2	A	B	A	3.5	[3.5]B	3.4	(3.0)	(2.5)	1.9					
18								1.9	[2.9]C	[3.0]C	[3.3]C	3.3	(3.4)	3.4	3.4	3.2	3.0	A	A	A	A						
19								2.1	2.6	2.9	3.1	3.3	A	B	3	B	[3.3]A	[3.2]A	2.8	A							
20								1.4	H	2.1	2.7	3.1	3.2	[3.3]B	(3.4)	3.4	A	B	[3.3]A	3.1	2.8	A					
21								1.4	2.0	[2.0]A	[3.0]A	3.2	[3.7]A	A	A	(3.6)	3.5	[3.3]A	3.1	2.7	2.2						
22								A	A	(2.6)	(2.9)	A	A	A	C	C	A	(3.0)	2.8	(2.3)							
23								2.3	[2.7]A	3.0	[3.2]A	(3.3)	[3.4]B	B	B	B	B	B	3.2	2.8	(2.3)						
24								(2.3)	[2.7]A	(3.0)	(3.1)	A	C	B	A	A	A	[3.4]A	3.2	2.8	(2.3)						
25								(2.2)K	(2.6)K	(3.0)K	[3.2]K	[3.4]K	3.5K	(3.5)K	(3.5)K	(3.4)	[3.3]A	[3.3]A	3.2	2.8	2.0H						
26								(2.3)	2.8	3.0	A	A	A	B	A	B	(3.3)	[3.4]A	2.8	(2.4)	A						
27								(1.6)	2.3	(2.8)	(3.2)	3.3	(3.5)	A	A	A	(3.4)	(3.3)	3.0	2.4	A						
28								A	2.4	2.8	3.1	(3.3)	(3.4)	A	A	A	A	(3.2)	(2.8)	A							
29								(2.3)F	[2.8]A	(3.2)	A	A	A	3.5	[3.5]C	3.4	3.1	2.8	2.4	A							
30								A	A	(3.1)	A	A	A	A	A	A	A	(3.2)	(2.9)	2.4	(1.7)						
31								(2.3)F	[2.8]A	3.0	(3.3)	(3.4)	3.5	(3.5)	3.5	(3.4)	(3.2)	2.8	A								
								1.4	2.1	2.6	3.0	3.2	3.3	3.3	3.5	3.4	3.4	3.3	3.1	2.7	2.2						

Median

Sum

Washington, D.C.

Ionosphere Station

TABLE 57
IONOSPHERE DATA - 8

(Location) National Bureau Of Standards

(Institution)

TIME 75°W MERIDIAN

Hourly values of E_S in $\text{m} \text{ sec}^{-1}$ for May 1945 (Month)

A.F.

REstricted

Records measured by: S.M.O.

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
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22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Sum																								
Median	2.9	1.0	1.6	1.0	2.3	3.2	3.3	3.6	4.2	4.0	4.1	3.8	3.6	3.9	3.8	3.5	4.1	3.4	3.8	3.3	3.2	2.5		

TABLE 58
IONOSPHERE DATA—9

Washington, D.C. Ionosphere Station

(Location) National Bureau Of Standards

(Institution)

TIME 75°W ME. RIDIAN
Hourly values of F2-M(500 tor.) May 1945
(Month)

RESTRICTED

A.F.

Records measured by: S.M.O

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	1.9	2.0	1.9	2.0	1.9	2.0	2.1	2.0	2.1	2.0	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	1.8	
2	1.8	1.8	(1.9)	1.9	1.9	2.0	2.1	2.0	1.8	2.2	(1.9)	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	1.9	
3	1.9	2.0	1.9 ^H	2.0	2.0	A	2.2	(2.3)	(1.8)	2.2	1.8	(1.9)	1.9	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
4	1.9	2.1	A	A	A	A	A	A	A	2.2	2.4	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0		
5	1.9	2.0	1.9	J	2.0	2.3	2.4	C	2.1	2.4	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1		
6	1.9	A	1.9	1.9	2.0	2.1	2.3	1.9	(1.8)	C	1.9	(1.8)	B	1.7	1.8	1.8	1.9	2.0	2.1	2.1	2.1	2.1	1.9	1.9F	
7	1.8 ^F	1.9 ^F	1.8	A	1.8	2.0	2.0	2.3	2.3	2.1	1.7	2.1	1.9	1.9 ^H	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.1	1.9 ^F	
8	2.0 ^F	2.0	2.0	(1.9) ^F	2.1	2.1	1.8	2.0	2.1	1.9	B	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.0	
9	1.9	2.0	2.0	2.0	2.0	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9 ^K	
10	2.0 ^K	2.1 ^K	1.9 ^K	1.9 ^K	2.0 ^K	2.0 ^K	2.2 ^K	2.2 ^K	1.5 ^K	2.1 ^K	1.8 ^X	G	K	1.9 ^K	1.7 ^K	1.6 ^K	1.8 ^K	1.9 ^K	1.9 ^K	1.9 ^K	2.1 ^K	2.3 ^K	C	1.8 ^K	
11	2.0 ^X	A ^X	1.9 ^X	1.9 ^X	(2.0) ^X	1.9 ^X	2.0 ^X	2.1 ^X	1.6 ^X	G	K	1.4 ^X	1.8 ^X	1.7 ^X	G	K	1.6 ^X	1.8 ^X	2.1 ^X	(2.1) ^X	2.1 ^X	2.1 ^X	1.9 ^K		
12	1.8 ^X	1.8 ^X	1.9 ^X	(2.0) ^X	2.0 ^X	C	C	C	C	2.0	2.3	1.9	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.8 ^X	
13	1.9	1.9	2.0	2.0	2.0	2.1	2.3	2.0	6	1.8	2.1	1.9	1.9	1.9	1.9	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
14	2.1	1.9	2.1 ^F	2.0 ^F	2.1 ^F	A	2.0	(2.1)	1.6	2.1	(1.6)	2.0	1.9	A	A	C	C	2.1	A	2.1	2.1	2.1	2.1	2.1	2.1
15	2.0	2.0	2.0	2.0	2.0	1.9	2.1	2.1	2.5	2.1	1.9	1.8	3.0	1.9	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.0	1.9	
16	1.9	2.0	2.0	2.0	2.1	A	A	A	2.0	2.1	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	1.9	
17	1.9	2.0	1.9	1.9	2.1	2.1	2.0	2.0	1.8	1.7	1.7	1.7	1.9	2.0	2.0	2.0	2.0	2.2	2.2	2.2	2.1	2.1	2.0	2.0	
18	2.0	1.9	C	1.8	2.0	2.1	1.9	C	C	C	C	C	C	1.6	1.9	2.0	1.9	2.1	1.9	1.9	(2.0)	2.1	2.1	2.0	
19	2.0	2.0	1.9	2.0	2.4 ^F	1.9	1.9	A	1.9	1.9	1.8	G	B	1.7	1.8	1.7	A	A	A	A	A	(2.0)	2.0	2.0	
20	1.9	1.9	1.8	1.9	1.8	2.0	2.1	2.4	2.0	J	2.1	1.7	1.9	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.0		
21	1.9	2.0	1.9	2.1	2.2	2.1	2.1	1.9	2.0	2.0	1.8	2.0	2.0	1.8	2.0	1.8	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	
22	2.1 ^F	2.0 ^F	2.1	2.1 ^F	2.3	2.3	2.0	A	A	2.1	2.1	2.0	C	C	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	1.9	
23	1.9	1.9	1.8	1.8	2.2	2.2	2.3	2.0	(2.1)	(2.1)	(2.0)	2.1	(2.1)	2.0	(2.0)	2.0	(2.0)	2.1	(2.2)	2.1	2.1	2.1	2.0	1.8	
24	1.8	1.8	1.8	1.9	(2.1)	1.8	2.0	C	C	C	C	C	C	C	C	C	C	2.0	1.9	2.0	(2.2)	(2.3)	2.2	(2.2)	
25	1.8	(2.0)	(2.0)	(2.0)	2.0	A	(2.3) ^X	(2.0) ^X	A	2.1	2.1	2.1	G	K	G	K	C	(2.1)	1.9	2.0	2.2	2.1	2.1	1.9	(2.0)
26	1.9	2.0	2.0	2.0	2.0 ^F	2.1	2.1	2.1	(2.3)	(2.3)	2.1	C	C	(2.6)	C	2.1	2.0	C	(2.3)	(2.2)	2.2	1.9	2.0		
27	1.9	1.9	1.9	2.0	2.1	2.1	2.2	2.2	(2.3)	(2.3)	1.9	C	(2.1)	(2.2)	(2.2)	J	(2.3)	(2.3)	(2.2)	(2.2)	2.0	2.0	2.0		
28	2.0	2.0	2.0	2.0	2.1	2.1	2.2	(2.4)	1.8	1.9	(1.9)	2.0	2.0	(2.0)	2.0	2.0	(2.1)	(2.2)	(2.2)	(2.2)	2.1	1.8	2.0		
29	1.9	1.9	2.1	2.1	(2.0)	2.1	2.1	2.2	2.2	1.9	(1.7)	A	1.6	1.6	C	1.9	1.9	2.0	2.1	2.1	2.1	2.1	A		
30	1.9	(2.0)	(2.1)	(2.1)	1.8	2.1	1.8	2.0	2.0	2.1	(2.1)	1.8	1.8	2.1	(2.0)	2.1	2.1	(2.0)	(2.2)	(2.2)	2.1	2.1	2.0		
31	1.9	1.9	(1.9)	(1.9)	1.8	1.8	G	1.8	2.0	2.0	1.7	(1.8)	A	1.8	(1.9)	2.0	2.1	2.1	A	2.2	2.2	2.1	2.1	2.0	
Sum	Medien.	1.9	2.0	1.9	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	

TABLE 60
IONOSPHERE DATA-II

Washington, D.C. Ionosphere Station
(Institution) National Bureau Of Standards

Ionosphere Station
Hourly values of F2-M3500_{res} May 1945
(Month)

RESTRICTED

Records measured by S.M.O.
A.F.

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	3.0	3.2	3.0	3.1	3.1	3.2	3.3	3.2	3.4	3.4	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.3	3.3	3.4	3.4	3.2	3.1	2.9	
2	2.9	2.9	(3.0)	3.1	3.1	3.1	3.2	3.3	3.0	3.0	3.4	(3.0)	3.5	3.1	3.1	3.1	3.2	3.2	3.3	(3.3)	3.3	3.4	3.0	3.0	3.1
3	3.1	3.2	3.1 ^H	3.2	3.2	A	3.4	(3.5)	(3.0)	3.4	2.9	(3.1)	3.1	3.1	3.2	3.2	3.2	3.2	3.1	3.1	3.2	3.0	3.2	3.2	3.2
4	3.0	3.2	A	A	A	A	3.4	3.6	3.4	3.1	3.2	3.3	3.2	(3.2)	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1
5	3.1	3.1	J	3.2	3.5	3.6	C	3.3	3.6	3.1	3.2	3.2	3.2	3.3	3.1	3.1	3.3	3.3	3.3	3.4	3.2	3.2	3.3	3.3	
6	3.1	A	3.0	3.1	3.0	3.2	3.3	3.5	3.1	(3.0)	C	B	2.8	3.0	3.1	3.0	3.0	3.3	3.0	3.0	3.3	3.0	3.0	3.0	3.1 ^F
7	3.0 ^F	3.0 ^F	3.0	A	3.0	3.1	3.2	3.5	3.5	3.3	2.8	3.3	3.1	3.1	3.2	3.2	3.2	3.2	A	(3.2)	3.3	3.4 ^F	3.0		
8	3.1 ^F	3.2	3.2	(3.1) ^F	(3.0) ^F	3.3	3.3	3.0	3.2	3.3	3.1	B	3.1	3.2	3.2	3.2	3.2	3.3	3.2	(3.4)	(3.3)	3.3	3.2	3.1	3.1
9	3.1	3.1	3.1	3.2	3.2	3.4	3.4	3.5	3.4	3.3	3.3	3.2	3.3	3.3	3.3	3.2	3.2	3.2	(3.2)	(3.5) ^K	(3.5) ^K	3.2	3.0	3.0	
10	3.2 ^K	3.3 ^K	3.1 ^K	3.1 ^K	3.0 ^K	3.1 ^K	3.4 ^K	3.4 ^K	3.1 ^K	2.9 ^K	G	K	2.6 ^K	2.9 ^K	2.7 ^K	3.0 ^K	2.9 ^K	3.0	3.0	3.3 ^K	3.3 ^K	3.3 ^K	C	K	2.9 ^K
11	3.1 ^K	A	K	3.0 ^K	(3.1) ^K	3.0 ^K	3.2 ^K	3.2 ^K	2.6 ^K	G	2.3 ^K	2.9 ^K	2.8 ^K	G	G	2.6 ^K	3.0 ^K	3.0 ^K	3.0 ^K	3.3 ^K	3.3 ^K	3.0	K	2.9 ^K	
12	3.0 ^K	2.9 ^K	3.1 ^K	(3.2) ^K	3.5	C	C	C	C	C	3.2	3.5	3.0	3.2	3.3	3.3	3.4	3.2	3.2	3.2	(3.4)	3.2	3.1	3.0	2.9
13	3.0	3.0	3.1	3.1	3.1	3.2	3.5	3.2	G	2.9	3.4	3.1	3.0	3.0	3.0	3.1	3.0	3.0	3.2	3.2	3.2	3.2	3.2	3.3	
14	3.3	3.0	3.3 ^F	3.2 ^F	3.3 ^F	A	3.3	(3.3)	2.7	3.3	(2.6)	3.1	3.0	A	A	C	C	3.3	A	3.5	3.3	3.1	3.4	3.3	3.3
15	3.1	3.2	3.1	3.2	3.0	3.3	3.3	3.7	3.3	3.1	2.9	3.2	3.1	3.1	3.3	3.4	3.3	3.4	3.4	3.4	3.2	3.2	3.2	3.1	
16	3.1	3.2	3.1	3.3	A	A	3.1	3.0	3.3	3.2	3.1	3.3	3.3	3.3	3.2	3.1	3.2	3.2	3.4	3.3	3.3	3.3	3.2	3.1	
17	3.1	3.2	3.1	3.1	3.1	3.2	3.3	3.2	3.2	2.9	2.8	3.1	3.0	3.2	3.2	3.2	3.2	3.2	3.4	3.5	3.3	3.2	3.2	3.2	
18	3.2	3.1	C	2.9	3.2	3.3	3.1	C	C	C	2.7	3.1	3.1	3.2	3.0	3.2	3.0	3.0	(3.2)	(3.4)	3.3	3.4	3.2	3.2	
19	3.1	3.2	3.1	3.1	3.5 ^F	3.1	3.0	A	3.0	3.1	3.0	G	B	2.8	2.9	A	A	A	A	(3.2)	3.1	3.2	3.1	3.2	
20	3.0	3.0	3.0	3.0	2.9	3.1	3.3	3.6	3.2	3.2	2.8	3.1	3.1	3.2	3.2	3.1	3.1	3.2	3.2	3.3	3.2	3.3	3.1		
21	3.1	3.1	3.1	3.2	3.4	3.3	3.0	3.2	3.1	3.0	3.2	3.1	3.0	3.1	3.2	3.2	3.3	3.2	3.3	3.2	3.3	3.2	3.2	3.2	
22	3.2 ^F	3.2 ^F	3.3	3.3 ^F	3.5	3.2	A	A	A	3.3	3.2	C	C	C	C	C	C	3.2	3.4	(3.5)	3.5	3.4	3.3	3.1	
23	3.1	3.0	2.9	2.9	3.0	3.5	3.3	3.5	(3.3)	(3.4)	(3.2)	3.1	(3.3)	3.2	(3.2)	3.3	(3.4)	3.3	3.4	3.4	3.1	3.1	3.2	3.0	
24	2.8	2.9	3.1	(3.3)	3.0	3.2	C	C	C	C	C	C	C	C	C	C	C	C	(3.4)	(3.5)	3.4	(3.4)	(3.4)	(3.2)	
25	3.0	(3.2)	(3.2)	3.2	A	(3.0) ^K	(3.2) ^K	A	K	G	G	2.6 ^K	G	C	K	(3.2)	3.0	3.2	3.4	3.2	3.3	3.1	3.2	(3.3)	
26	3.0	3.1	3.2	3.2	3.2	3.2	(3.5)	3.4	3.3	(3.5)	A	(3.1)	C	C	(3.2)	3.3	3.2	C	(3.5)	(3.4)	3.4	3.0	3.2		
27	3.1	3.1	3.2	3.2	3.3	3.5	3.4	(3.5)	(3.2)	3.1	C	(3.3)	(3.4)	(3.2)	(3.3)	J	(3.2)	(3.5)	(3.4)	(3.4)	3.3	3.1			
28	3.1	3.2	3.1	3.2	3.4	(3.6)	3.0	3.1	(3.1)	3.2	3.2	3.1	(3.2)	3.2	3.1	(3.4)	(3.4)	(3.4)	(3.4)	(3.4)	3.3	3.0	3.2		
29	3.1	3.3	3.1	3.2	3.2	3.3	3.4	3.0	3.1	(2.7)	(2.9)	A	2.7	2.8	C	3.0	3.1	3.2	3.2	3.2	3.1	3.3	A		
30	3.0	(3.2)	(3.3) ^F	(3.0)	3.3	3.3	(3.2)	2.9	3.1	3.2	3.3	(3.2)	3.4	3.0	3.0	3.0	3.0	3.0	(3.2)	(3.4)	3.4	3.2	3.2		
31	3.0	3.0	(3.1)	(3.1)	3.0	3.0	G	2.9	3.4	3.1	2.8	(3.1)	A	3.0	(3.2)	3.2	3.4	3.2	A	3.5	(3.2)	(3.3) ^F	(3.3)		
Sum	Median	3.1	3.1	3.2	3.2	3.3	3.3	3.2	3.2	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.3	3.2	3.1		

Washington, D.C. Ionosphere Station
Location)

TABLE 61
IONOSPHERE DATA - 12

Ionosphere station

National Bureau Of Standards
Institution

Washington, D.C.
 (Location)

Ionosphere Station

TABLE 62
 IONOSPHERE DATA - 13

National Bureau Of Standards
 (Institution)

RESTRICTED

TIME: 75°W MERIDIAN
 Hourly values of E-M (1500_{for}) May
 (Month) 1945

Records measured by S.N.O.
 A.F.

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1					A	4.0	4.0	4.0	4.0	4.0	A	A	C	A	4.1	(4.2)	4.0	(3.8)							
2					3.8	4.2 ^H	(4.4)	A	A	A	(3.8)	A	A	A	4.0	4.0	4.0	4.0	A						
3					3.8	3.9	4.1	A	(4.1)	4.1	B	B	B	A	4.0	4.0	4.0	4.0							
4					4.0	4.1	4.0	A	A	A	B	B	A	A	4.4	(4.0)	4.1	4.1							
5					(4.1)	4.3	C	4.2	C	B	B	B	B	B	4.0	4.1	4.0	4.0	(4.0)						
6					4.1	A	A	(4.2)	A	B	(4.0)	B	(4.0)	4.0	4.0	4.1	4.1	4.1	4.2						
7					4.1	(4.1)	A	(4.1)	4.1	B	(4.1)	B	(3.8)	4.1	3.9	4.0									
8					(4.0)	4.2	4.1	4.1	A	A	A	B	B	4.0	(4.0)	4.0	4.0	4.1	(4.1)	K					
9					(4.1)	4.1	4.2	4.1	4.1	B	(4.0)	B	B	4.1	4.0	4.0	4.0	4.1	K						
10					K	(4.0) ^K	(4.2) ^K	4.1 ^K	3.9 ^K	(4.0) ^K	4.1 ^K	4.2 ^K	B	K	4.0 ^K	4.1 ^K	4.0 ^K	4.1 ^K	3.9 ^K	K					
11					K	(4.1) ^K	3.8 ^K	4.0 ^K	4.2 ^K	(4.0) ^K	A	K	4.1 ^K	4.2 ^K	4.0 ^K	4.0 ^K	4.0 ^K	4.0 ^K	(4.0) ^K	K					
12					C	C	C	4.0	4.0	4.1	(4.1)	4.0	4.0	4.0	4.1	4.1	4.1	4.3	4.1						
13					3.9	4.0	4.1	4.1	A	A	B	3.9	3.9	4.0	4.0	4.0	4.0	3.8							
14					(3.8)	(3.9)	4.0	4.0	4.0	4.0	A	A	A	C	C	A	C	A	(4.0)						
15					3.9	A	(4.1)	4.2	4.2	4.1	B	A	A	A	A	A	A	A	A	A	A	A	A		
16					A	A	A	A	B	A	A	A	A	A	A	(4.1)	A	A	A	A	A	A	A		
17					4.1 ^H	3.9	4.0	4.1	4.2	A	B	A	4.1	B	4.0	4.2	4.2	4.3							
18						4.1	C	C	C	C	4.2	(3.9)	4.1	4.0	4.0	4.0	4.0	A	A	A	A	A	A	A	
19					3.8 ^H	3.8	3.9	3.8	4.0	4.0	A	B	B	B	B	B	B	A	A	A	A	A	A	A	
20						3.8 ^H	4.1	3.9	4.0	4.2	B	4.2	4.1	A	B	A	B	A	4.2	(3.9)	A				
21						4.0	(4.0)	A	A	4.1	A	A	(4.1)	4.0	A	4.0	4.0	4.0	4.2						
22						A	A	(4.0)	(4.2)	A	A	A	C	C	A	(4.0)	4.1	(4.1)							
23						3.9	A	(4.0)	A	(4.1)	B	B	B	B	B	B	(4.1)	4.1	(4.0)						
24						(4.0)	A	A	(4.1)	A	C	B	A	A	A	A	3.9	3.9	(4.0)						
25						A	K	A	K	4.2 ^K	A	K	4.1 ^K	(4.0) ^K	(4.1)	K	(3.9)	A	4.1	4.0	(4.3) ^H				
26						A	A	4.1	A	A	B	A	B	B	4.1	A	A	A	A	A	A	A	A	A	
27						(3.5)	(4.2)	(4.1)	4.1	4.1	A	A	A	A	(4.1)	(4.0)	3.9	4.0	A						
28						A	3.7	3.9	4.0	4.0	(4.2)	A	A	A	A	(4.1)	C	(4.1)	4.1	3.9	(3.8)	A			
29						F	A	A	A	A	A	A	A	A	A	A	A	A	(3.9)	(4.0)	(3.6)				
30						(3.7) ^F	A	(4.0)	A	(4.3)	(4.1)	A	(4.1)	4.1	(4.0)	(4.1)	3.9	A							
31							3.9	4.0	4.0	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	

Median

Table 63

Ionospheric Storminess, May, 1945

Day	Ionospheric Character*		Principal Storms		Magnetic Character**	
	00-12 GCT	12-24 GCT	Beginning GCT	End GCT	00-12 GCT	12-24 GCT
May						
1	1	0			2	2
2	1	1			3	2
3	0	3			2	2
4	1	1			2	1
5	1	2			2	1
6	3	3			1	2
7	3	2			0	1
8	2	2			2	1
9	3	1	2130		1	3
10	4	5			2	2
11	4	6			3	3
12	4	2		0900	2	2
13	3	3			2	2
14	3	3			1	2
15	3	2			1	1
16	2	2			1	2
17	2	1			2	2
18	3	3			1	3
19	2	3			2	2
20	3	2			2	1
21	0	1			1	2
22	1	1			1	1
23	2	2			2	1
24	2	2			2	2
25	2	4	1100	1900	3	2
26	1	1			2	2
27	0	3			1	2
28	0	1			1	2
29	0	3			2	2
30	2	1			2	3
31	1	2			2	2

*Ionosphere character figure (I-figure) for ionospheric storminess at Washington, D.C., during 12-hour period, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

**Average for 12 hours of American magnetic K-figure, determined by a number of observatories, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

/ Dashes indicate continuance of disturbance.

Table 64

Provisional Radio Propagation Quality Figures
North Pacific
Compared with IRPL Warnings and IRPL A-Zone Forecasts.

Day	Quality Figure	January 1945			February 1945			Quality Figure and Forecast Scale:								
		IRPL Warning	A-Zone Forecast	Geo-magnetic netto KA	IRPL Warning	A-Zone Forecast	Geo-magnetic netto KA	1 = Useless	2 = Very poor	3 = Poor	4 = Poor to fair	5 = Fair	6 = Fair to good	7 = Good	8 = Very good	9 = Excellent
1	(4) 5	X X	5	2 2	5 6	5 5	6	X	X	6	2 1	1	1	1	1	1
2	5 6	6	6	2 2	5 5	5 5	X X	6	6	2 1	1 1	1	1	1	1	1
3	5 5	6	6	2 2	5 6	5 6	X X	5	3	2						
4	(4) 5	5	(4)	2 1	5 5	X X	X X	5	3	2						
5	(4) 5	X X	(4)	2 1	6 5	X X	X X	5	3	2						
6	(4) 6			2 1	5 5	(4) 5	5 5	5	1	1						
7	5 5	5	5	1 1	(4) 5	5 5	5 5	5	1	1						
8	(4) 7	5	5	1 1	(4) 5	5 5	5 5	5	3	2						
9	6 6	X X	5	1 3	6 5	6 5	X X	5	3	2						
10	5 6	X X	(4)	4 2	6 5	5 5	X X	5	2	1						
11	5 6	(4)	0	0	5 5	5 5	(4)	2	1							
12	5 5	(4)	1 2	6 5	X X	(4)	5	2	1							
13	5 5	(4)	2 0	6 6	6 6	(4) 6	5	0	2							
14	(4) 5	X	5	3 4	(4) 6	6	(4)	4	3							
15	(4) 6	X X	5	3 2	5 6	X X	5	3	3							
16	(4) 5	X X	5	3 2	5 6	X X	5	2	2							
17	5 5	X X	5	3 2	5 6	X X	5	2	1							
18	5 6	X X	5	0 2	6 6	6 6	(4)	1	1							
19	(4) 6	5	5	2 2	6 6	6 6	(4)	1	1							
20	5 6	5	2	6 6	6 6	6 6	(4)	1	1							
21	5 6	6	2 1	6 6	6 6	6 6	X X	5	2							
22	6 7	X X	6	1 1	6 6	6 6	6 6	6	1	2						
23	6 6	X X	(4)	1 0	6 6	6 6	6 6	6	1	2						
24	5 6	X X	(4)	0 0	6 6	6 6	6 6	5	2	2						
25	6 7	(4)	0 0	6 6	6 6	6 6	6 6	(4)	3	2						
26	6 7	(4)	1 2	5 6	5 7	5 7	5 6	(4)	2	3						
27	6 6	5	1 2	5 6	4 3	4 3	5 6	5	2	2						
28	5 6	5	2 1	6 6	5 5	5 5	5 5	6	1	2						
29	5 6	5	2 2	6 6	X X	5 5	5 5	5	1	1						
30	6 5	5	2 1	6 6	X X	5 5	5 5	5	1	1						
31	5 5	5	1 1	6 6	X X	5 5	5 5	5	1	1						
<u>Score:</u>			4	2				0	1							
H	M	G	5	7				3	2							
		(S)	13	16				16	19							
		S	8	4				9	3							
			1	2				0	3							

Quality Figure and Forecast Scale:

1 = Useless
 2 = Very poor
 3 = Poor
 4 = Poor to fair
 5 = Fair
 6 = Fair to good
 7 = Good
 8 = Very good
 9 = Excellent

Symbols:

X = Warning given.
 N = No warning.
 H = Quality 4 or worse on day or half-day following warning.
 M = Quality 4 or worse on day or half-day following no warning.
 G = Quality 5 or better on day following no warning.
 (S) = Quality 5 on day following warning.
 S = Quality 6 or better on day following warning.
 () = Quality or forecast 4 or worse (disturbed).

Geometric KA on the standard scale of 0 to 9, 9 representing the greatest disturbance.

Provisional Radio Propagation Quality Figures

March 1945

Compared with I.R.L. and ISIR Warnings and IRPL-A-Zone Forecasts.

Day	North Atlantic			North Pacific			Forecast Scale:		
	Quality Figure	IRPL	ISIR	A-Zone Forecast	Geo-magnetic K _A	Quality Figure	IRPL	A-Zone Forecast	Geo-magnetic K _A
1	6	7	5	2	1	5	7	5	2
2	5	7	6	1	2	6	6	6	1
3	5	7	6	3	1	6	7	6	1
4	6	7	6	1	1	6	(4)	1	4
5	5	6	(4)	2	3	5	6	(4)	2
6	6	X	X	5	2	6	X	5	2
7	5	6	X	5	2	6	X	5	3
8	5	6	X	5	2	6	X	5	3
9	6	7	X	(3)	1	1	6	7	1
10	6	6	X	(4)	1	1	6	7	1
11	(4)	5	X	5	4	3	(4)	X	5
12	(3)(4)	X	X	5	3	5	(4)	X	5
13	(3)(3)	X	X	5	3	1	(4)	X	5
14	(4)	5	X	5	2	2	5	X	5
15	(3)(4)	X	X	(4)	4	4	5	X	5
16	(3)(4)	X	X	5	3	3	5	X	5
17	(4)	5	X	5	2	1	5	X	5
18	(4)	5	X	5	2	2	6	X	6
19	5	6	X	5	1	1	7	6	2
20	5	6	X	6	2	3	6	6	2
21	5	6	X	6	2	2	6	6	2
22	5	7	X	X	6	1	7	X	6
23	6	7	X	X	5	1	0	7	1
24	5	7	X	X	(4)	2	2	6	7
25	5	7	X	X	(4)	1	3	5	(4)
26	(4)	5	X	X	X	4	4	(4)	5
27	(4)	5	X	X	X	5	3	(4)	4
28	(3)(4)	X	X	X	(4)	5	3	(3)	3
29	(4)	5	X	X	(4)	3	2	(4)	5
30	5	7	X	X	(4)	0	1	X	2
31	6	7	X	X	(4)	1	1	(4)	1
<hr/>									
Score:									
E	11	6	3					6	2
M	11	6	9					0	4
G	11	19	11					12	16
(S)	4	0	4					3	5
S.	4	0	0					4	4

Symbols:

X = Warning given.
 E = Quality 4 or worse on day or half-day following warning.
 M = Quality 4 or worse on day or half-day following no warning.
 G = Quality 5 or better on day following no warning.
 S = Quality 6 or better on day following warning.
 () = Quality or forecast 4 or worse (disturbed)

Geomagnetic K_A on the Standard scale of 0 to 9, 9 representing the greatest disturbance.

Table 66

Provisional Radio Propagation Quality Figures

April 1945

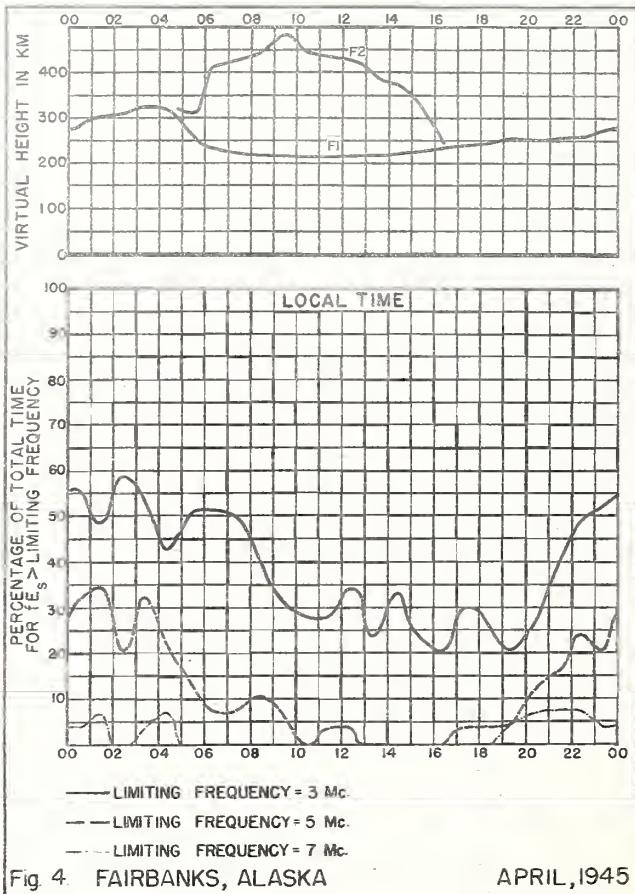
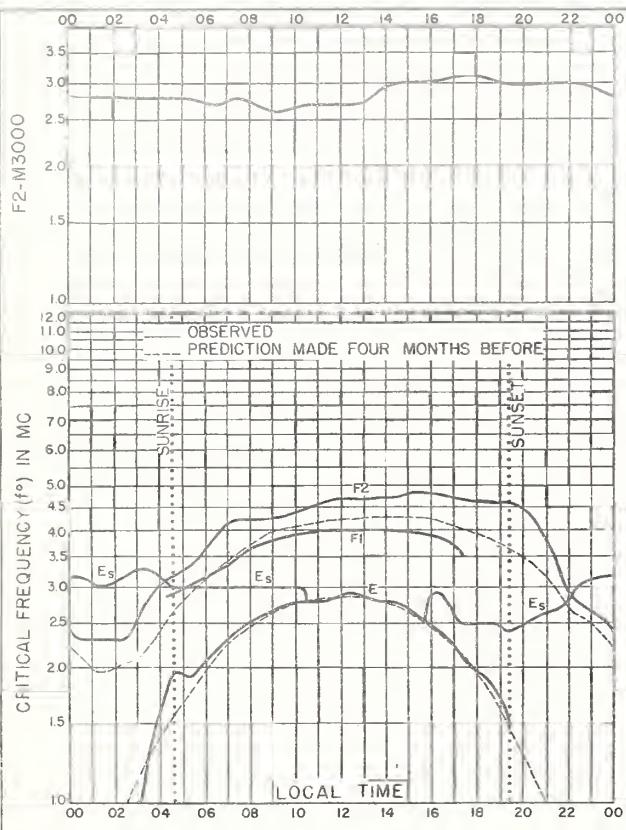
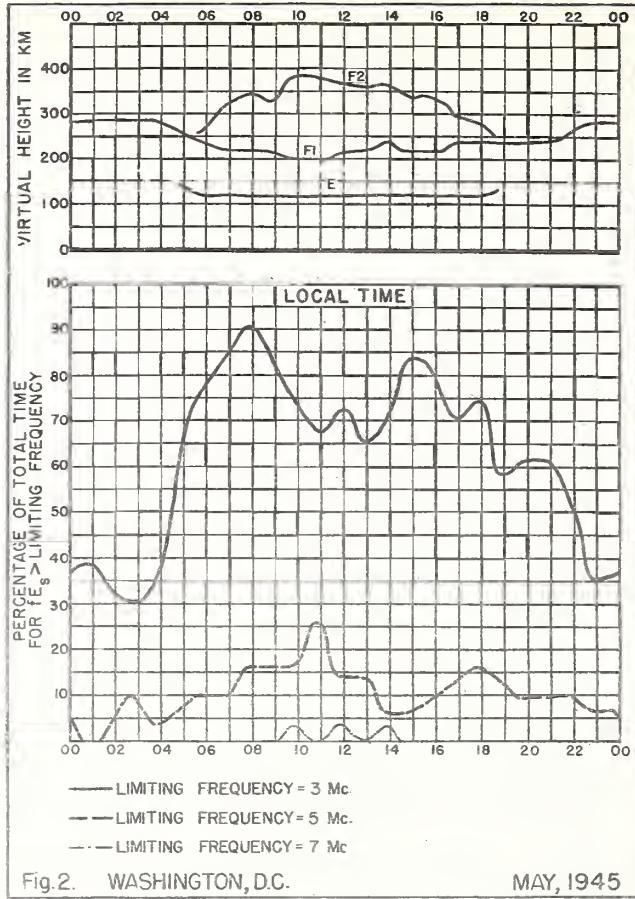
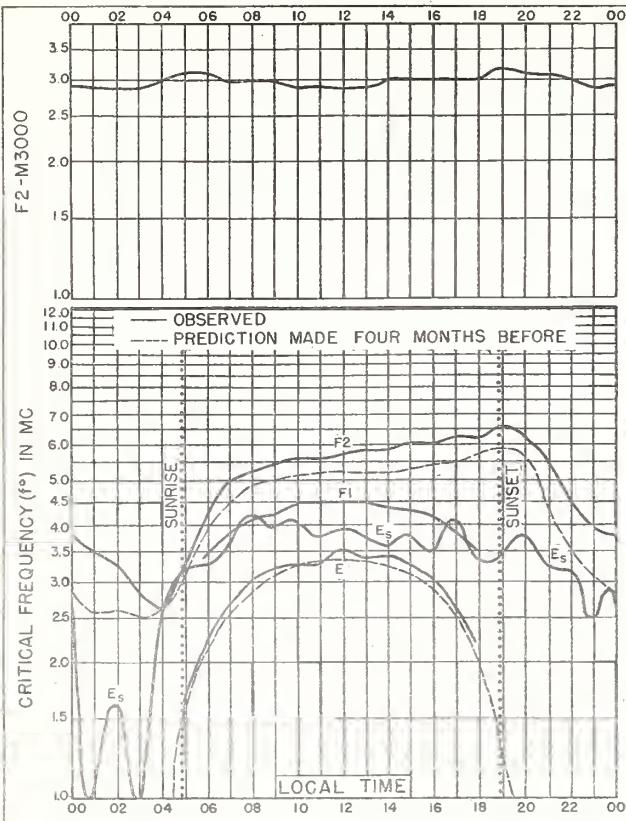
Compared with IRPL and ISIR Warnings and IRPL-A-Zone Forecasts.

Day	North Atlantic						North Pacific						Geo-magnetic KA	A-Zone Forecast	Geo-magnetic KA	A-Zone Forecast	Geo-magnetic KA	A-Zone Forecast	
	Quality Figure	IRPL	ISIB	A-Zone Warning	Geo-magnetic Forecasts	Quality Figure	IRPL	A-Zone Warning	Geo-magnetic Forecast	Quality Figure	IRPL	A-Zone Warning							
1	(4)	5	X	X	(4)	4	4	5	5	5	5	(4)	4	4	4	4	4	4	
2	(4)	5	X	X	(4)	3	2	5	7	X	X	(4)	3	2	5	2	1	3	
3	5	6	X	X	5	2	1	6	7	X	X	5	1	2	5	2	1	3	
4	6	6	X	X	5	1	2	6	7	X	X	5	3	3	4	3	2	1	
5	5	5	X	X	5	1	3	(4)	(5)	X	X	5	3	3	H = Quality 4 or worse on day or half-day following warning.	4	3	2	
6	(4)	5	X	X	5	3	3	(4)	6	X	X	(4)	3	2	M = Quality 4 or worse on day or half-day following no warning.	5	2	1	
7	5	6	X	X	(4)	3	2	6	6	X	X	(4)	3	2	S = Quality 6 or better on day following warning.	6	1	1	
8	5	6	X	X	(4)	5	2	5	7	X	X	(4)	1	0	() = Quality or forecast 4 or worse (disturbed).	7	0	1	
9	6	7			(4)	1	0	5	6	(4)	(4)	5	1	1	G = Quality 5 or better on day following no warning.	8	1	1	
10	6	6			5	1	1	6	7	X	X	5	1	1	(S) = Quality 5 on day following warning.	9	0	1	
11	5	6			X	5	3	4	5	6	X	(4)	4	3	() = Quality or forecast 4 or worse (disturbed).	10	1	1	
12	(4)	5	X	X	(4)	4	3	5	7	X	X	5	3	3	G geomagnetic KA on the standard scale of 0 to 9, 9 representing the greatest disturbance.	11	1	1	
13	(4)	5	X	X	5	5	2	6	7	X	X	5	2	1		12	1	1	
14	(4)	6	X	X	6	3	2	6	6	X	X	6	5	2		13	1	1	
15	5	5			6	2	1	7	7	X	X	6	2	1		14	1	1	
16	5	6			6	1	1	6	7	X	X	6	1	1		15	1	1	
17	6	7			6	1	1	6	7	X	X	6	1	1		16	1	1	
18	6	7			6	1	1	6	7	X	X	6	1	1		17	1	1	
19	7	7			6	2	2	6	7	X	X	6	2	2		18	1	1	
20	6	6			X	5	3	2	6	7	X	X	5	3	2		19	1	1
21	5	6			X	5	5	1	1	7	7	X	5	1		20	1	1	
22	6	6			(4)	1	2	7	7	(4)	(4)	1	2	3		21	1	1	
23	6	7			(4)	2	3	7	7	X	X	(4)	2	3		22	1	1	
24	5	6			(4)	3	2	7	6	X	X	(4)	3	2		23	1	1	
25	5	6			(4)	5	2	1	6	6	X	(4)	2	1		24	0	1	
26	6	6			(4)	5	0	1	7	7	X	(4)	5	0		25	1	1	
27	7	7			(4)	5	0	1	7	6	X	(4)	5	1		26	1	1	
28	6	7			(4)	0	1	8	5	1	2	7	5	1		27	1	1	
29	6	7			X	2	2	7	7	X	X	(4)	1	1		28	1	1	
30	6	7			(4)	2	2	7	7	X	X	(4)	2	2		29	1	1	
															Score:				
	H	5														2	0		
M	1	5														0	2		
G	14	23														14	16		
(S)	5	1														5	6		
S	5	0														9	7		

Quality Figure and Forecast Scale:
 1 = Useless
 2 = Very poor
 3 = Poor
 4 = Fair to good
 5 = Fair
 6 = Fair to good
 7 = Good
 8 = Very good
 9 = Excellent

Symbol:
 X = Warning Given.
 H = Quality 4 or worse on day or half-day following warning.
 S = Quality 6 or better on day following warning.
 () = Quality or forecast 4 or worse (disturbed).

G = Quality 5 or better on day following no warning.
 (S) = Quality 5 on day following warning.
 () = Quality or forecast 4 or worse (disturbed).



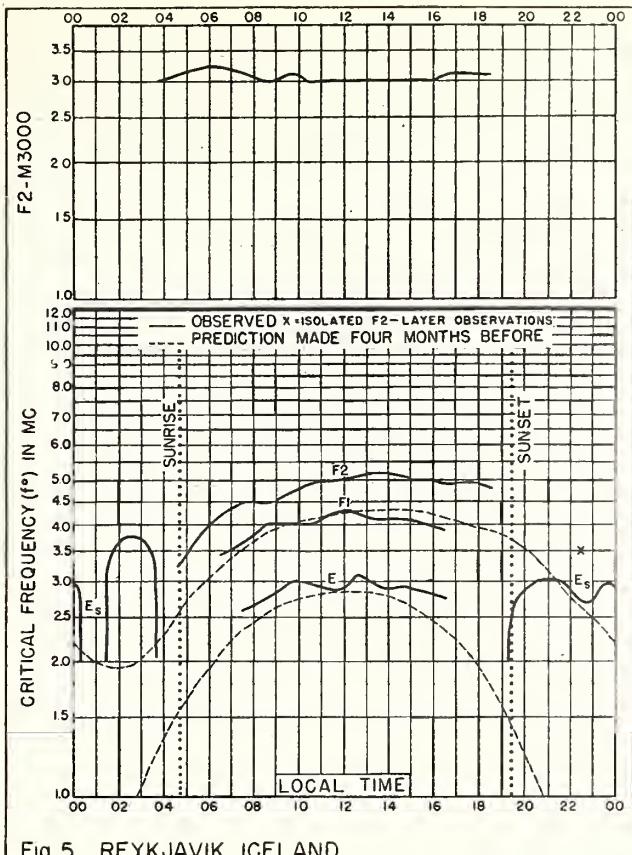


Fig. 5. REYKJAVIK, ICELAND
64°N, 21.7°W APRIL, 1945

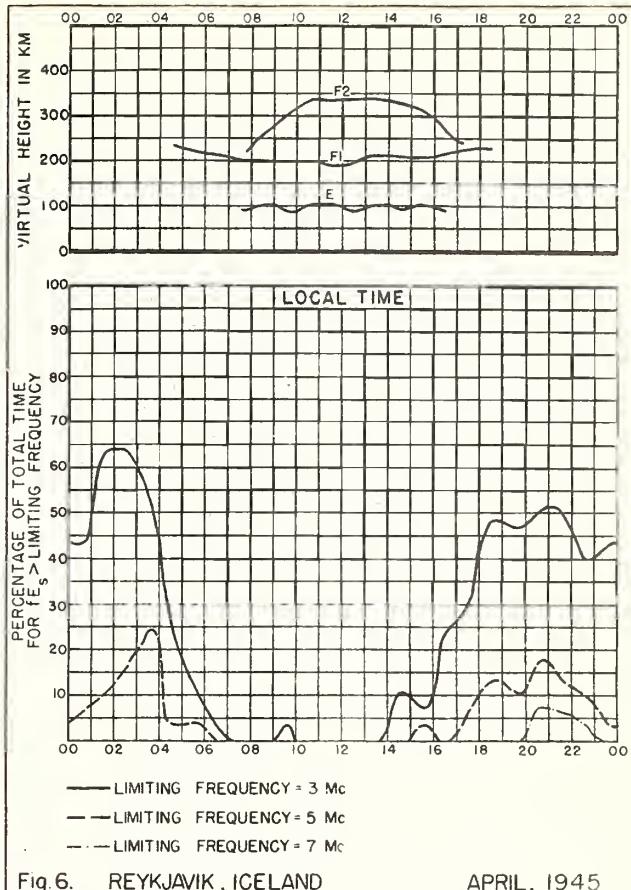


Fig. 6. REYKJAVIK, ICELAND APRIL, 1945

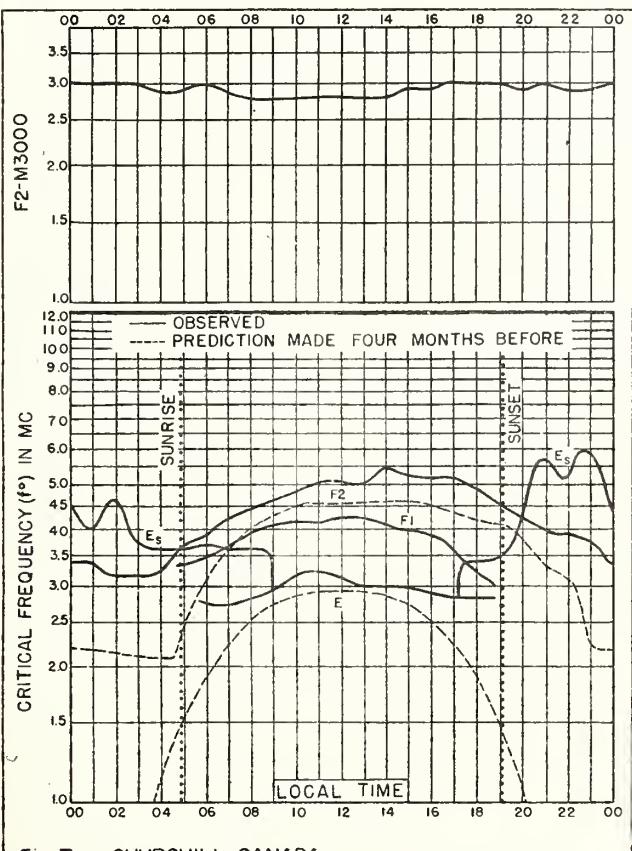


Fig. 7. CHURCHILL, CANADA
58.8°N, 94.2°W APRIL, 1945

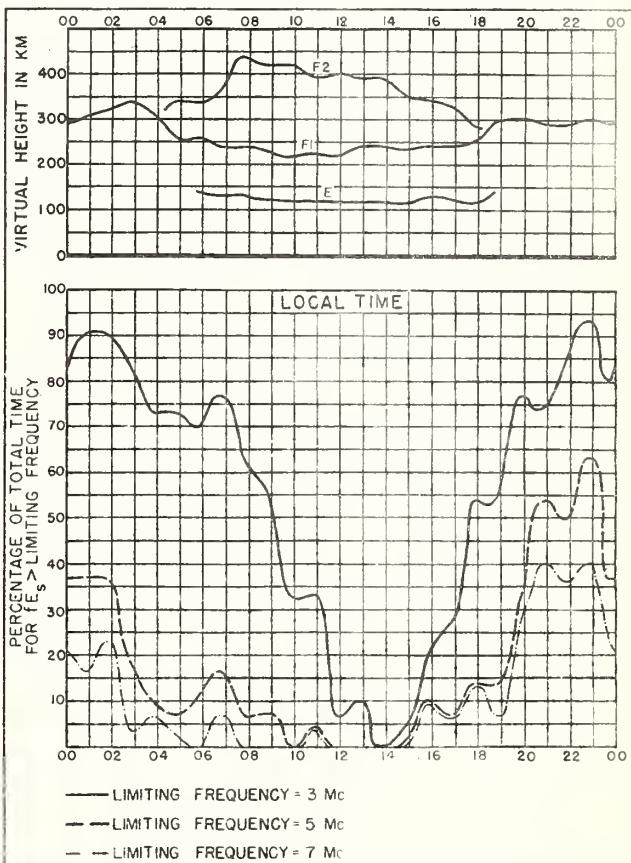
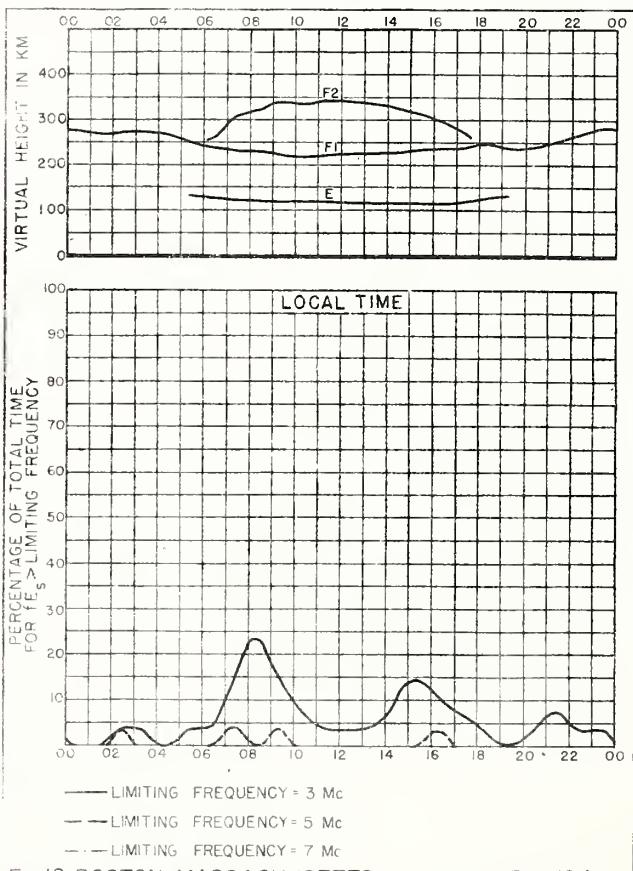
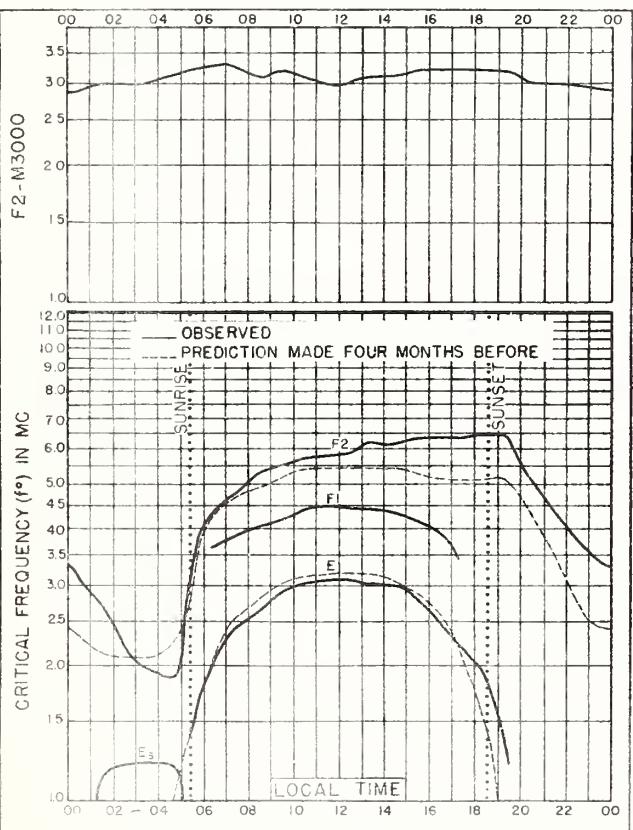
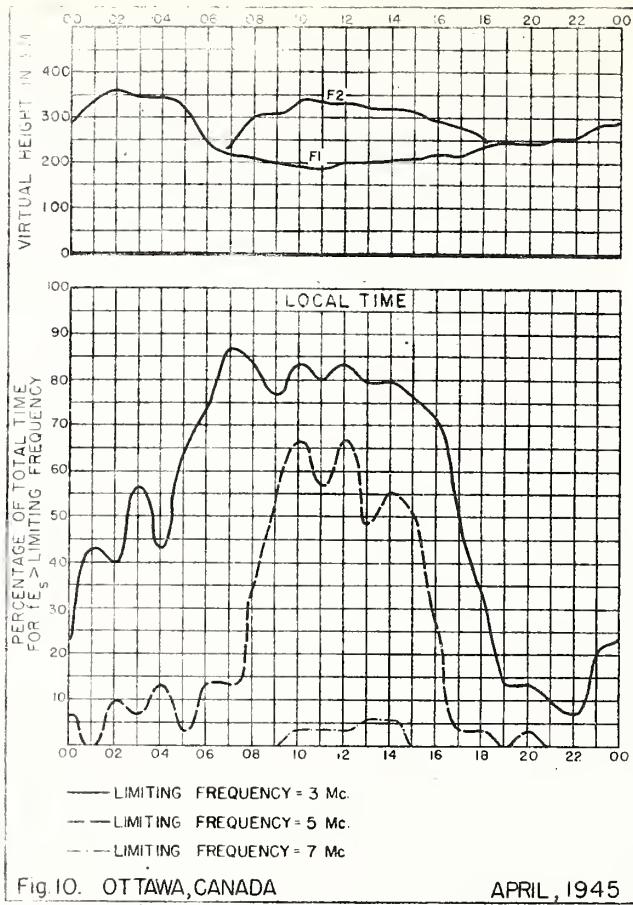
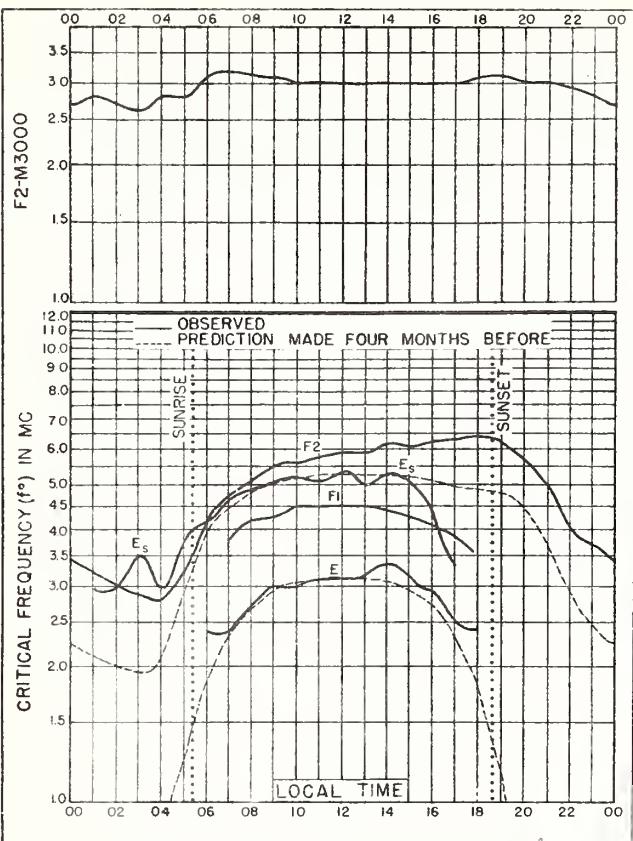


Fig. 8. CHURCHILL, CANADA APRIL, 1945



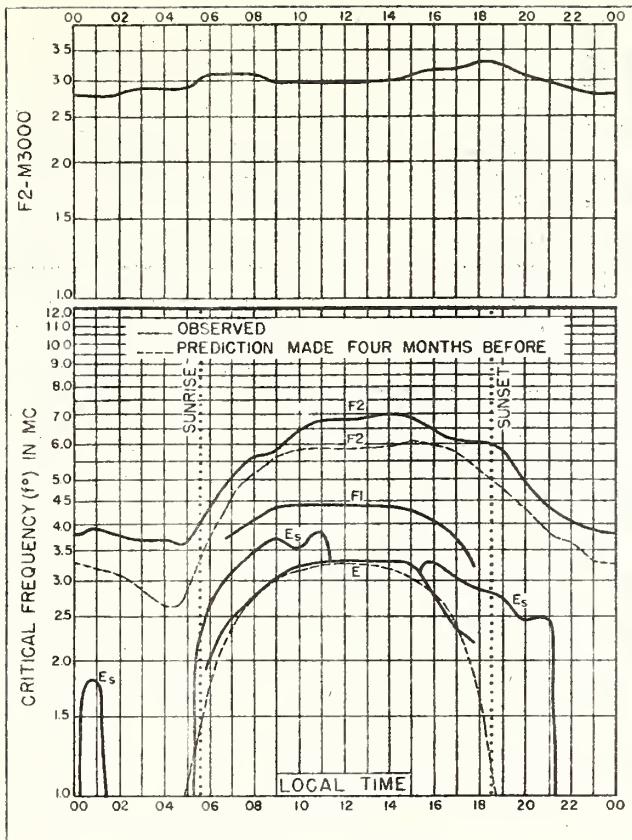


Fig 13 SAN FRANCISCO, CALIFORNIA
37.4°N, 122.2°W APRIL, 1945

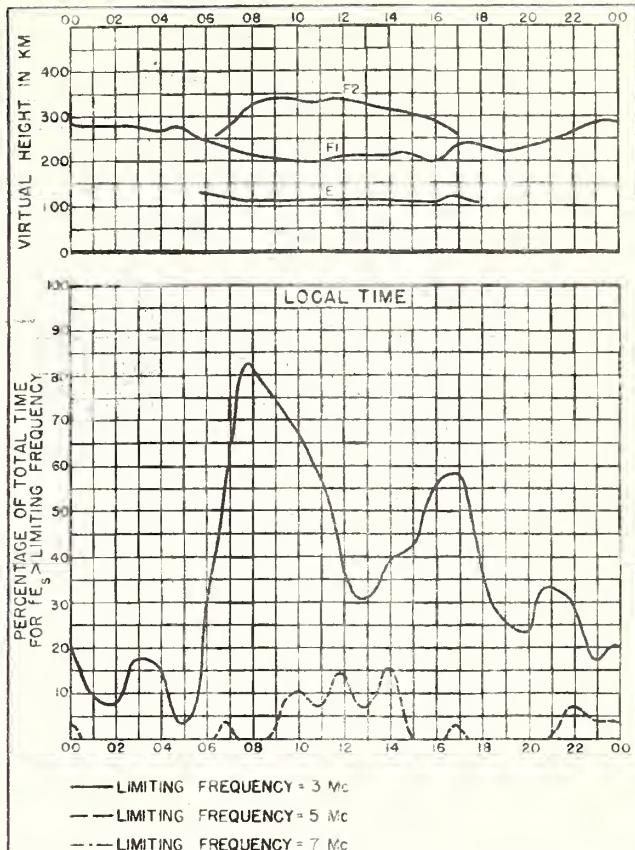


Fig 14 SAN FRANCISCO, CALIFORNIA APRIL, 1945

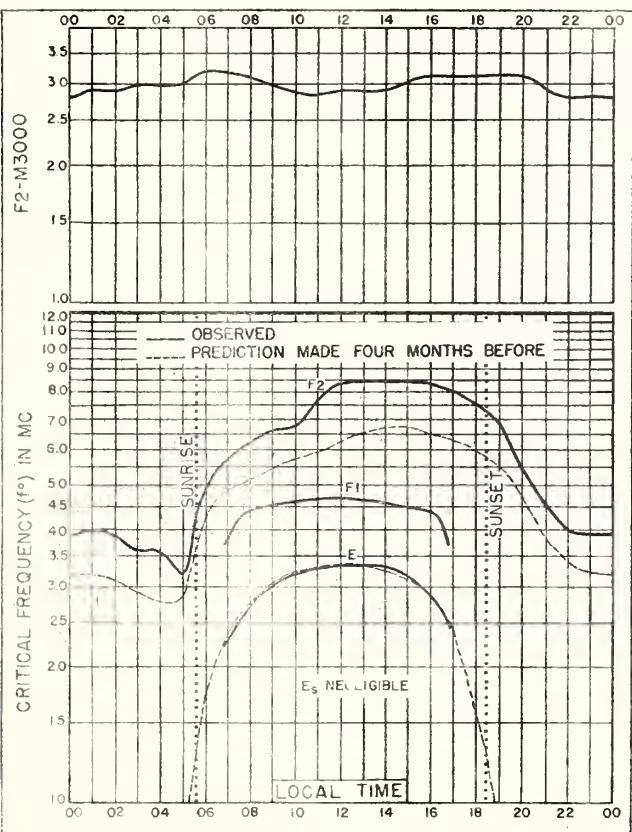


Fig 15. BATON ROUGE, LOUISIANA
30.5°N, 91.2°W APRIL, 1945

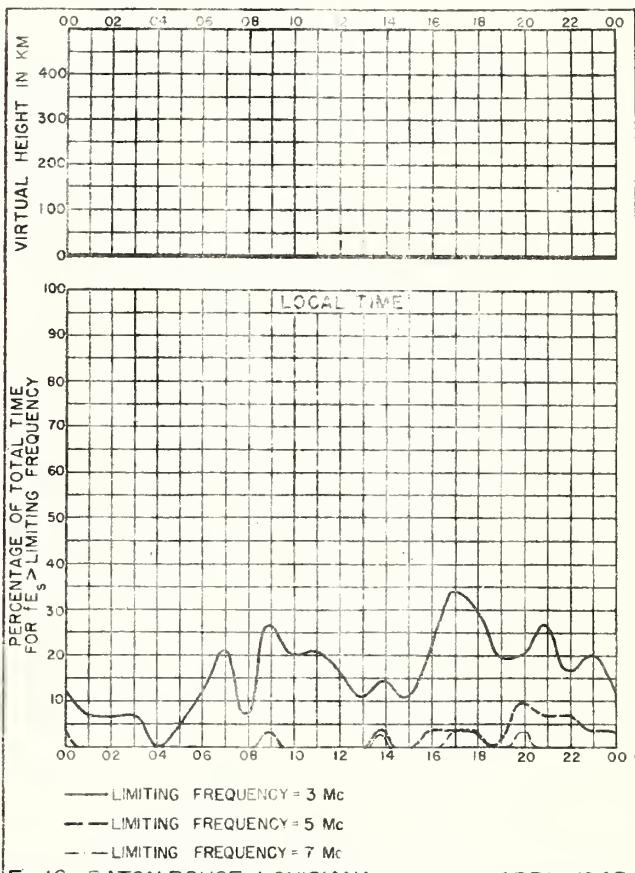
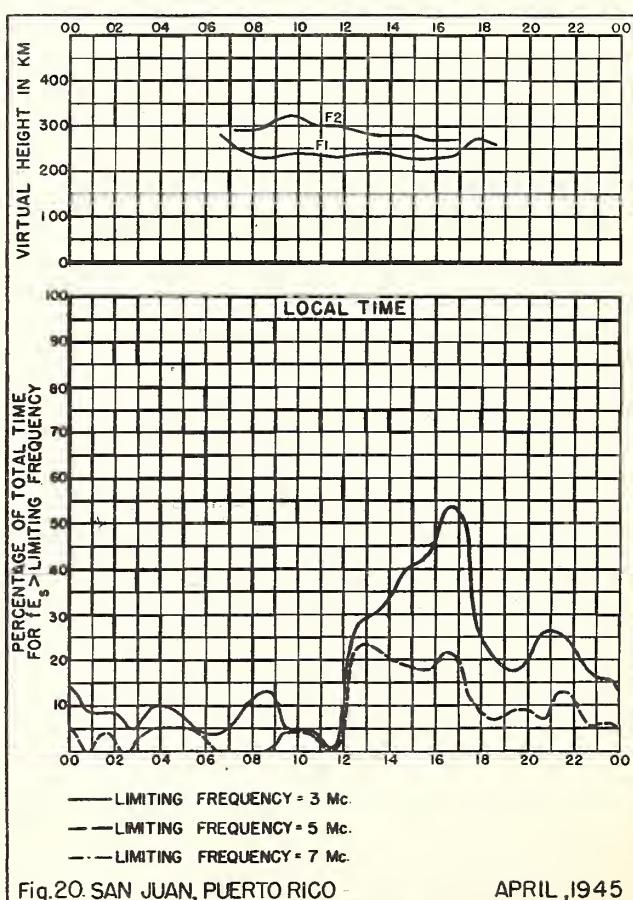
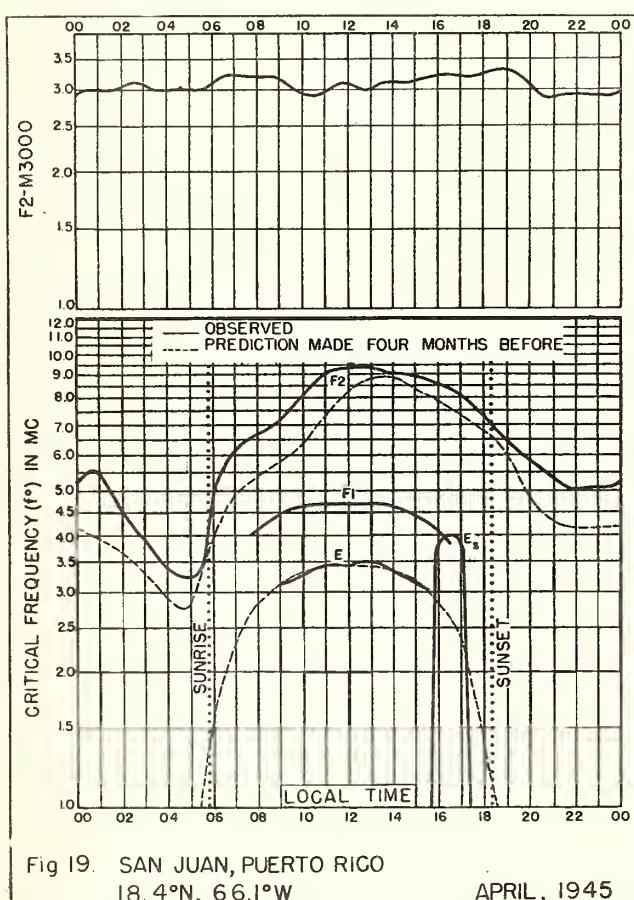
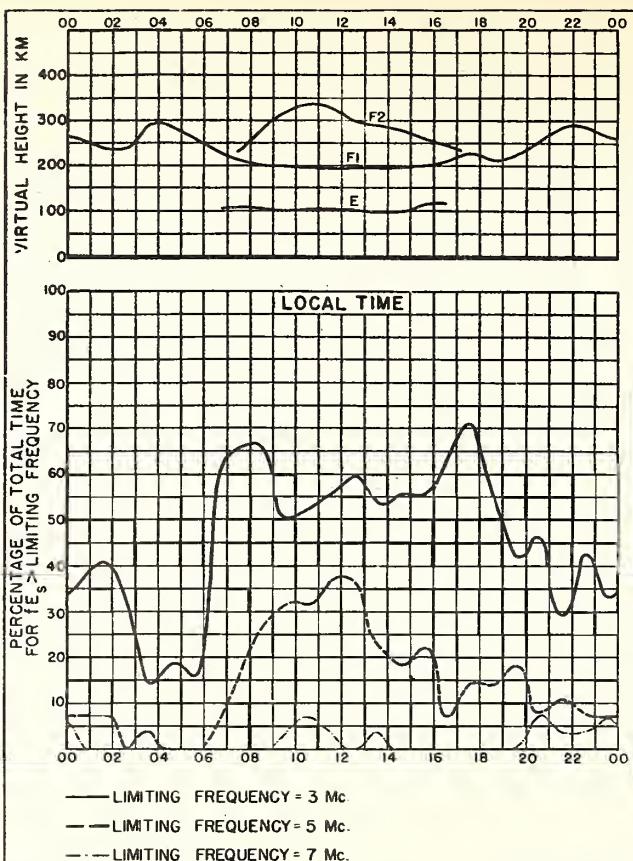
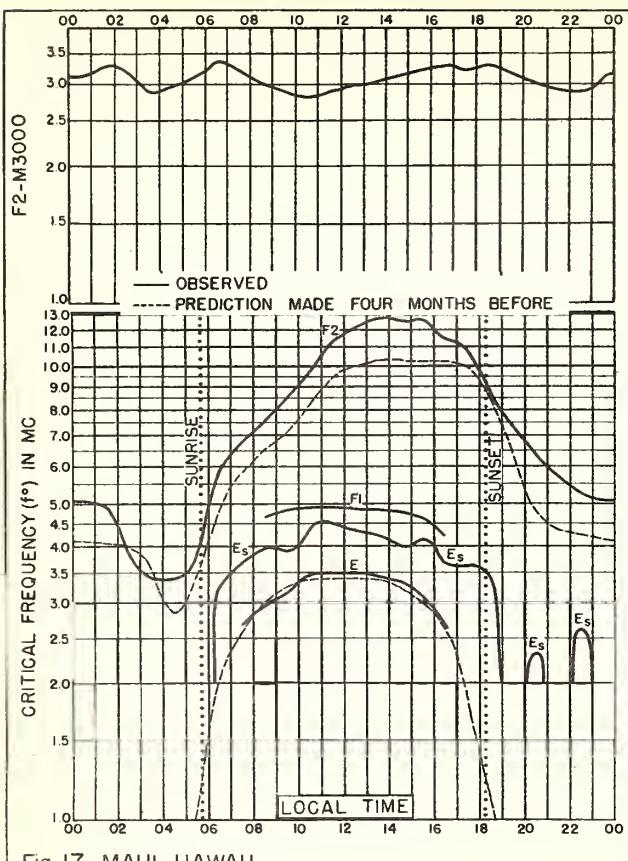


Fig 16 BATON ROUGE, LOUISIANA APRIL, 1945



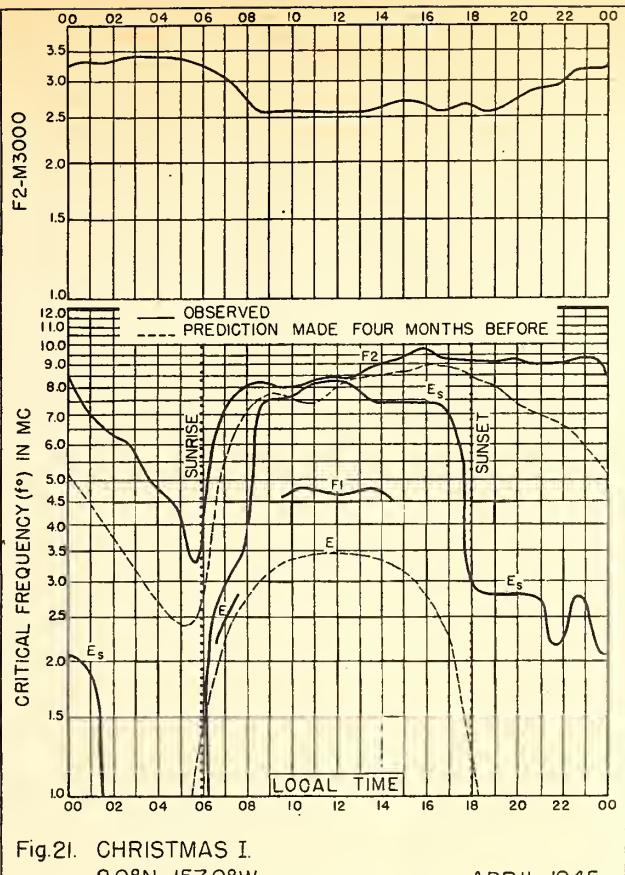


Fig.21. CHRISTMAS I.
2.0°N, 157.0°W

APRIL, 1945

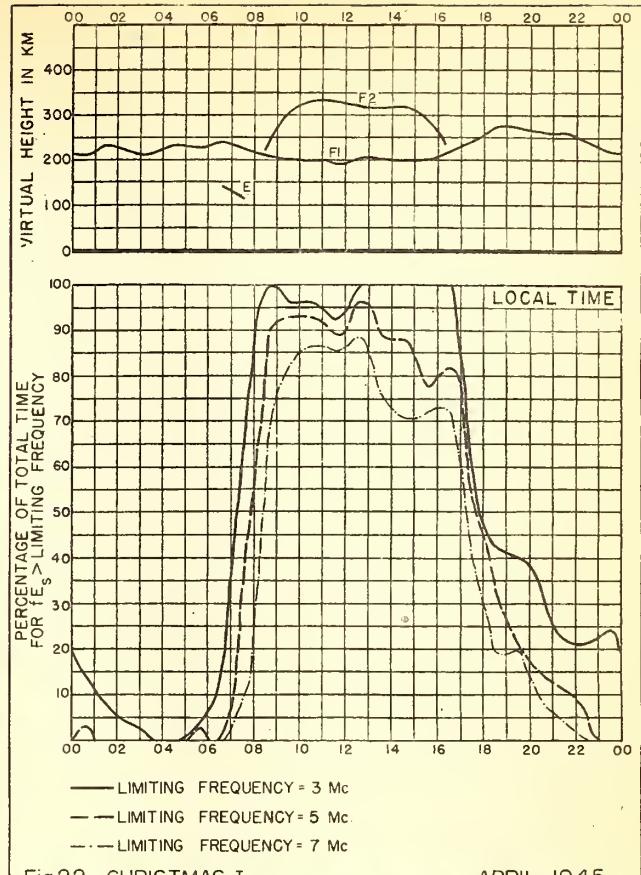


Fig.22. CHRISTMAS I.

APRIL, 1945

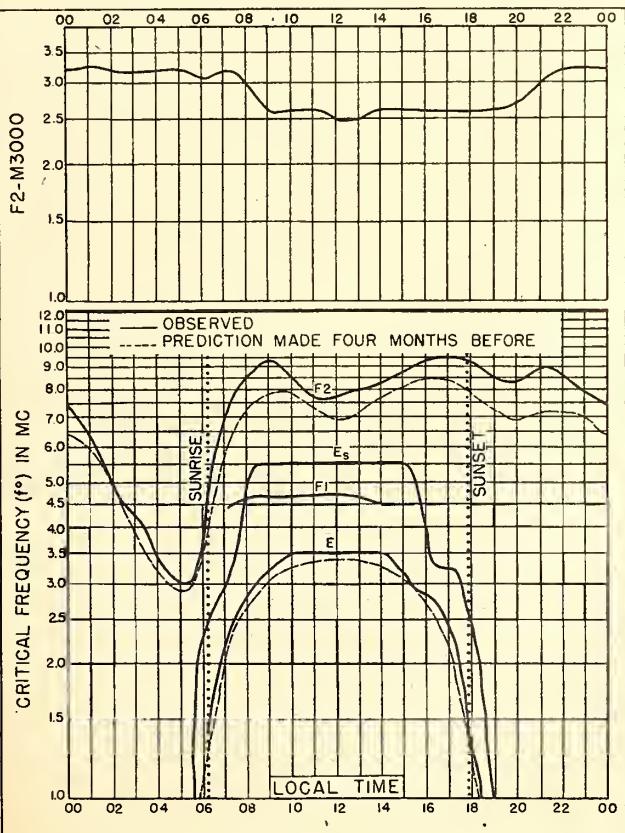


Fig.23 HUANCAYO, PERU
12.0°S, 75.3°W

APRIL, 1945

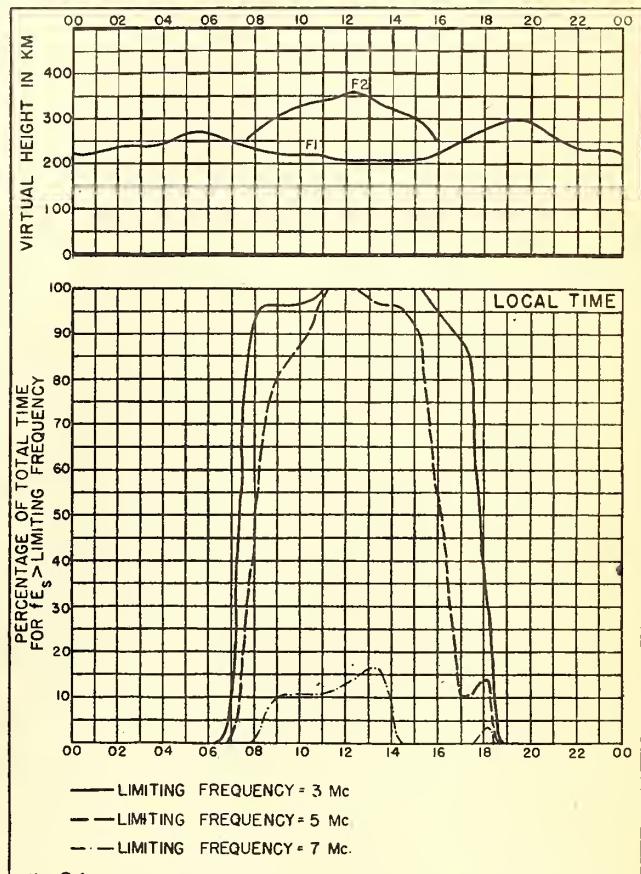


Fig.24. HUANCAYO, PERU

APRIL, 1945

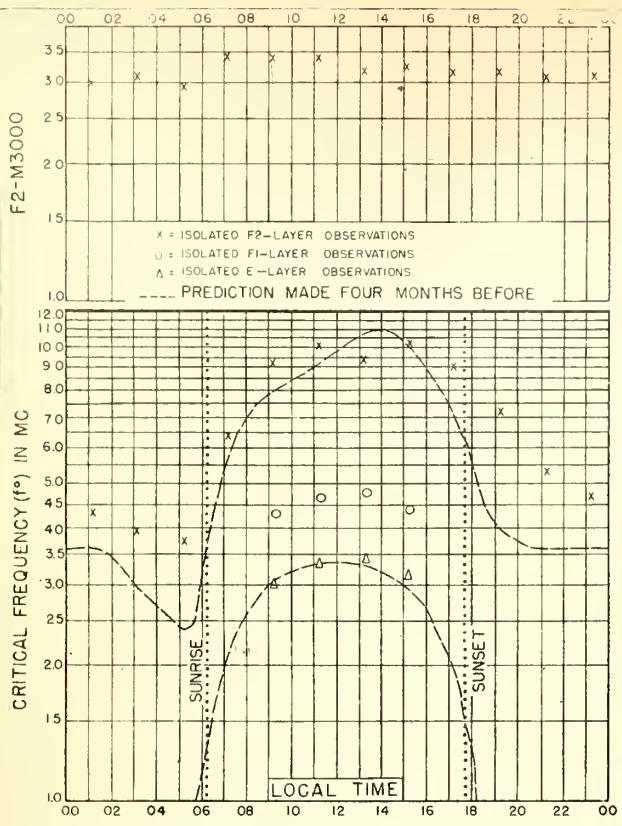


Fig 25. RAROTONGA I.
21°4'S, 159°6'W

APRIL, 1945

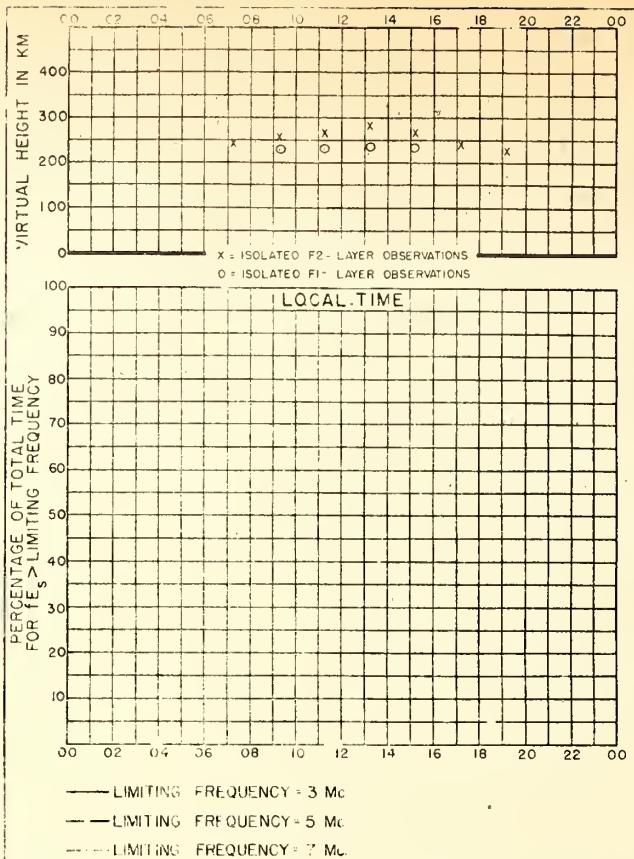


Fig 26. RAROTONGA I.

APRIL, 1945

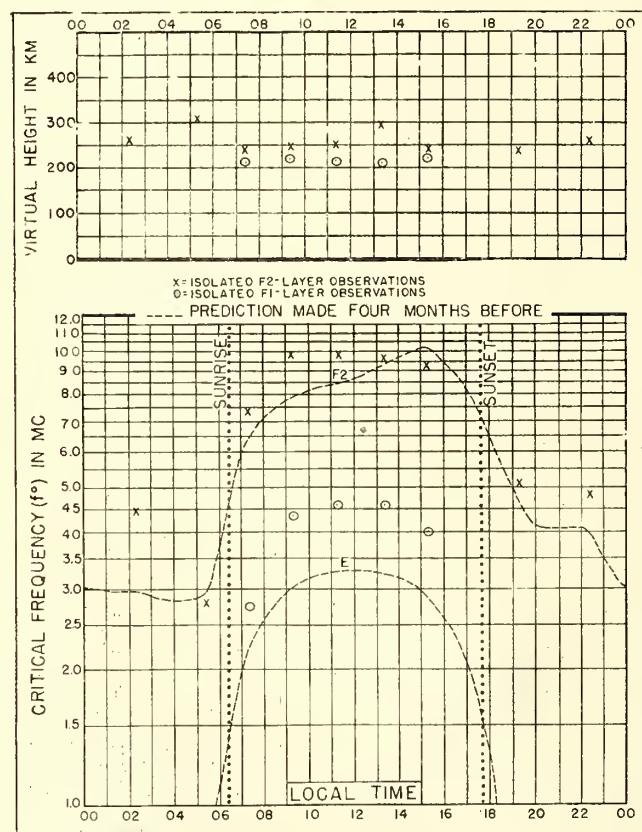


Fig 27. PITCAIRN I.
25.0°S, 130.0°W

APRIL, 1945

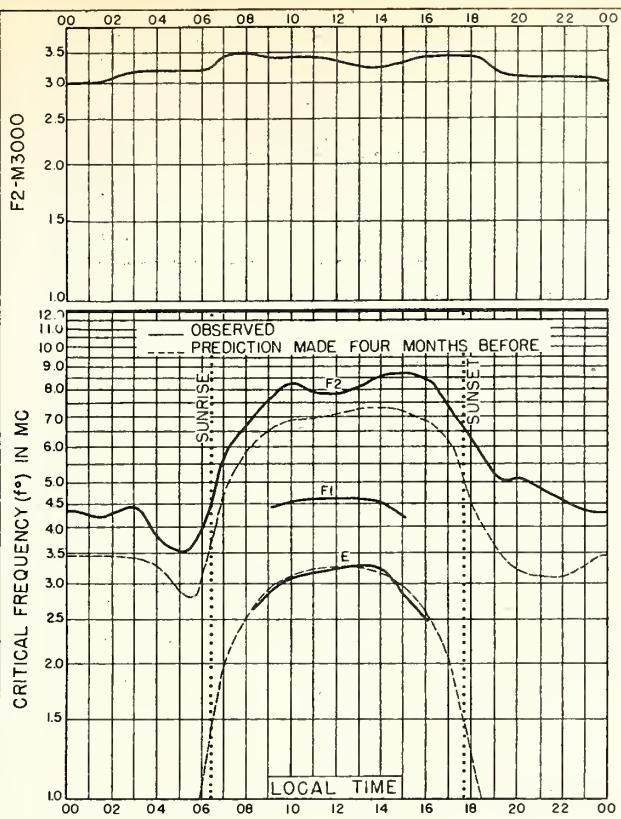


Fig 28. BRISBANE, Q., AUSTRALIA
27.5°S, 153°0'E APRIL, 1945

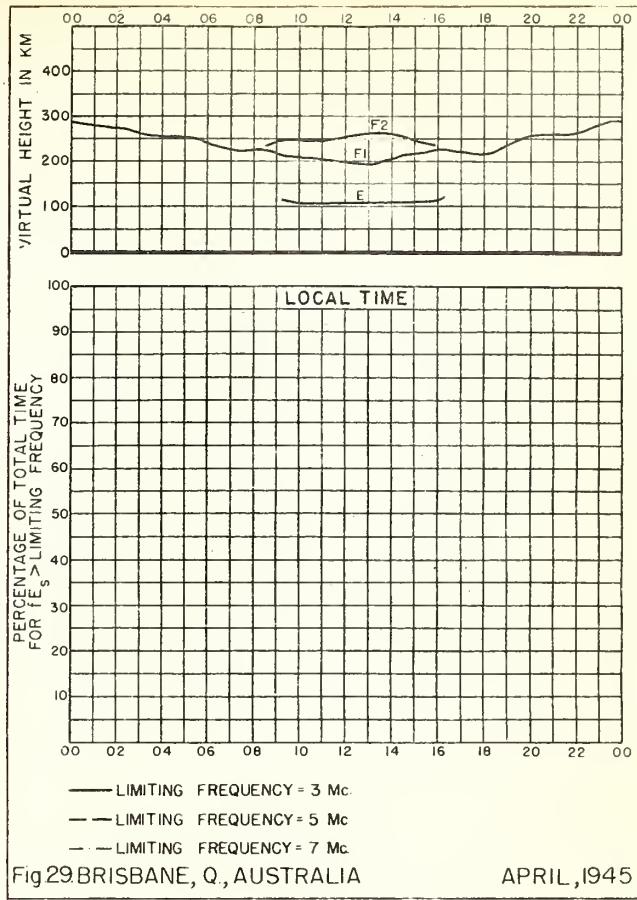


Fig 29. BRISBANE, Q., AUSTRALIA APRIL, 1945

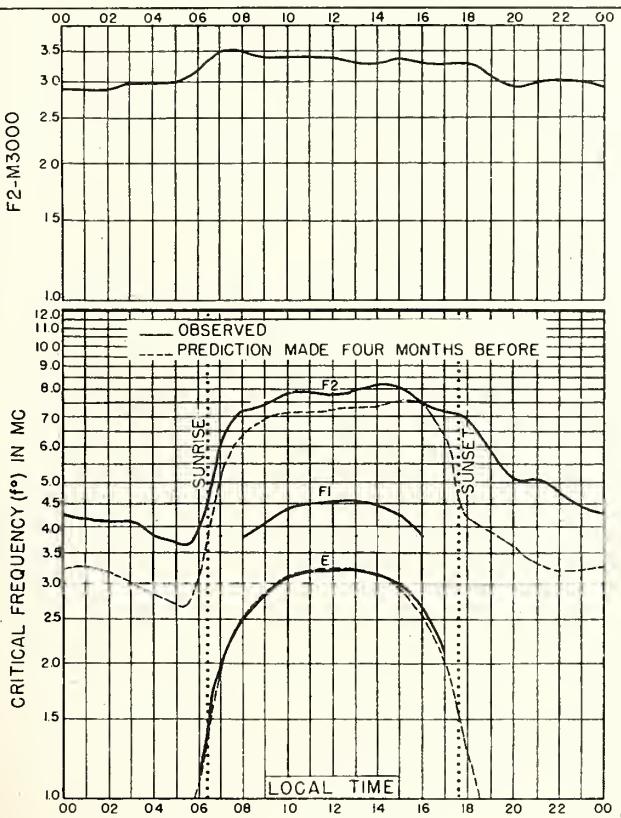


Fig 30. KERMADEC IS
29.2°S, 177.9°W APRIL, 1945

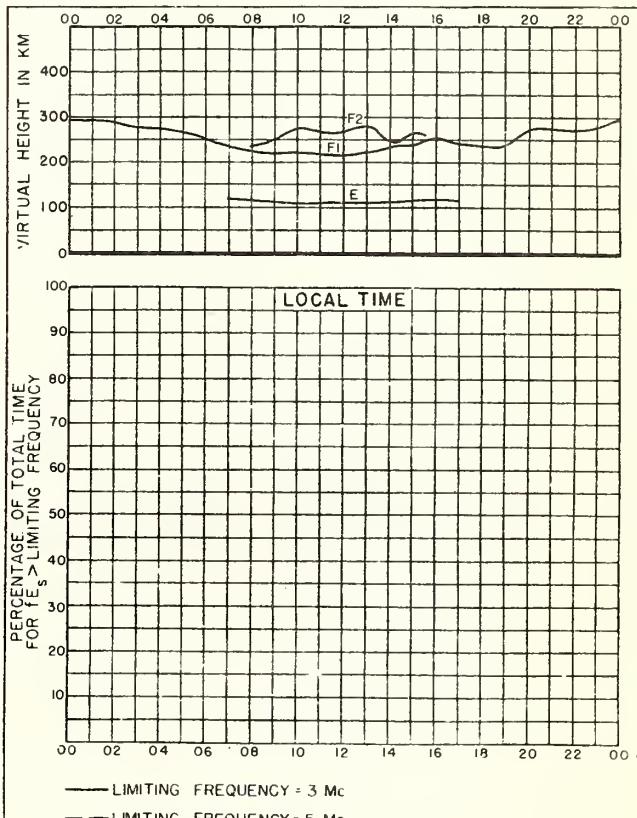


Fig 31. KERMADEC IS APRIL, 1945

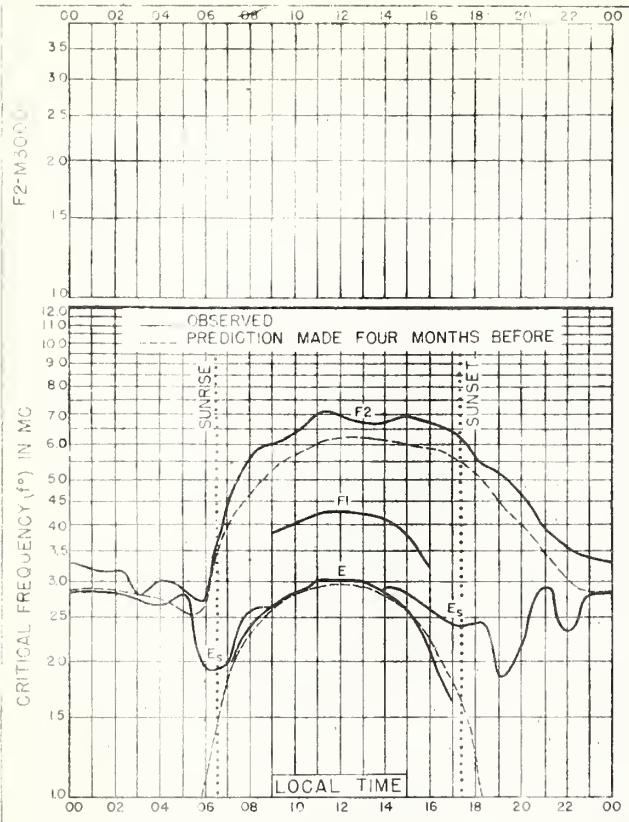


Fig. 32. CHRISTCHURCH, NEW ZEALAND
43.5°S, 172.6°E APRIL, 1945

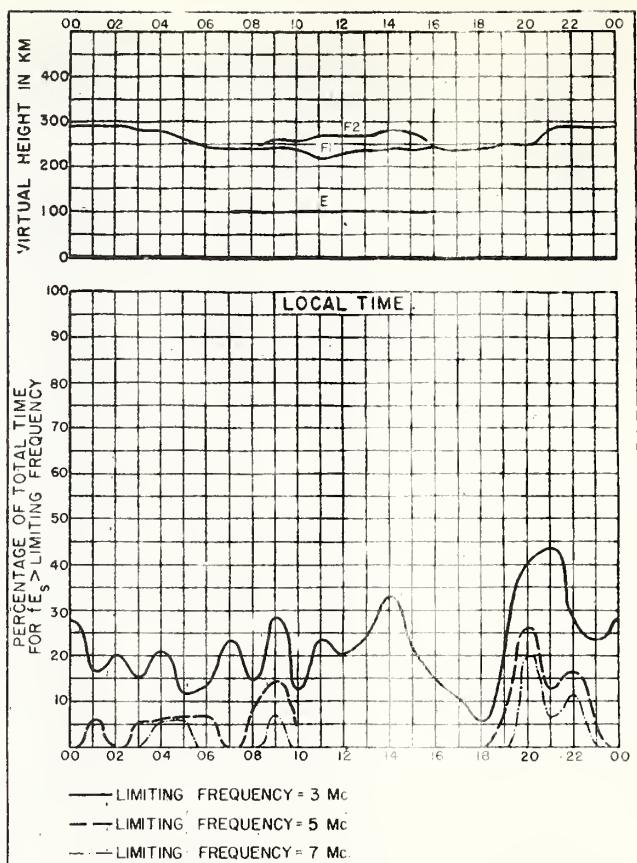


Fig. 33. CHRISTCHURCH, NEW ZEALAND APRIL, 1945

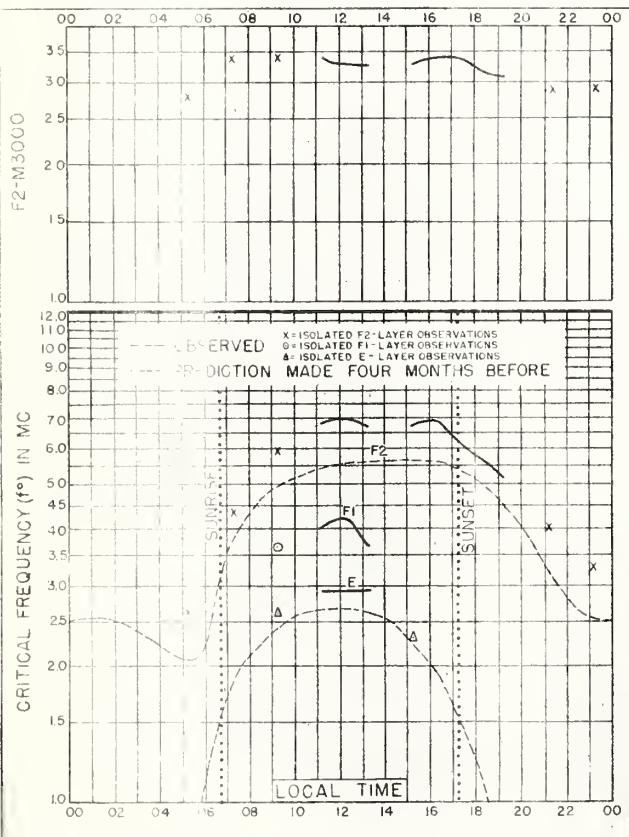


Fig. 34 CAMPBELL I
52.5°S, 169.0°E APRIL, 1945

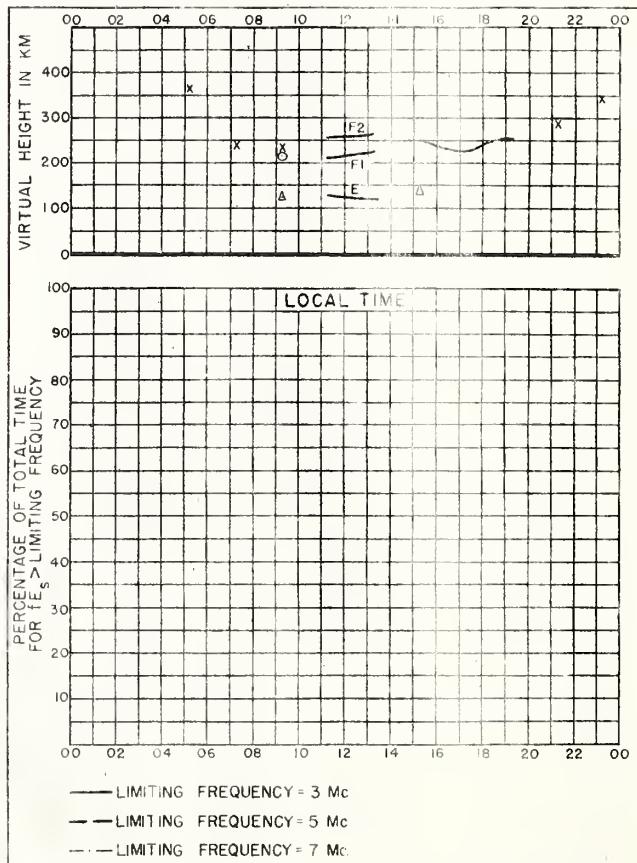


Fig. 35. CAMPBELL I APRIL, 1945

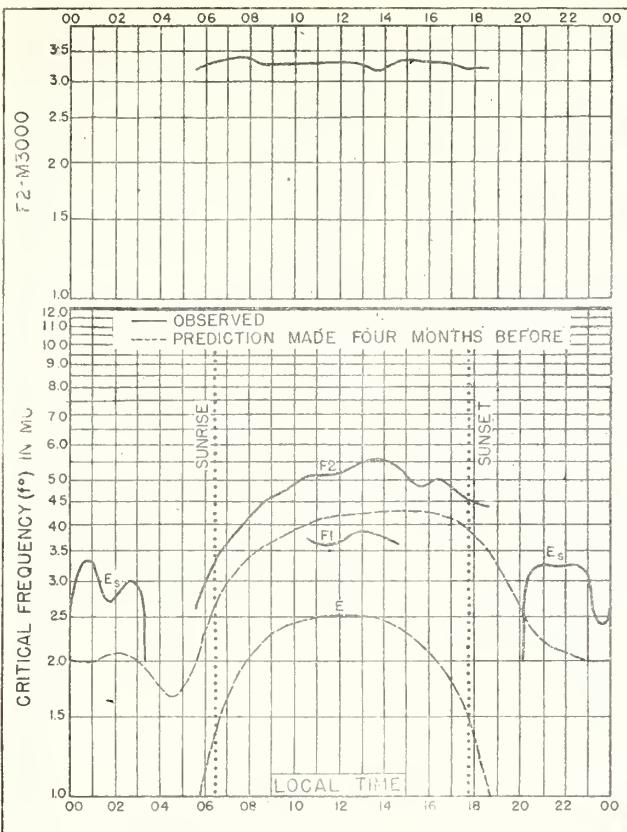


Fig 36. REYKJAVIK, ICELAND
64.1°N, 217°W

MARCH, 1945

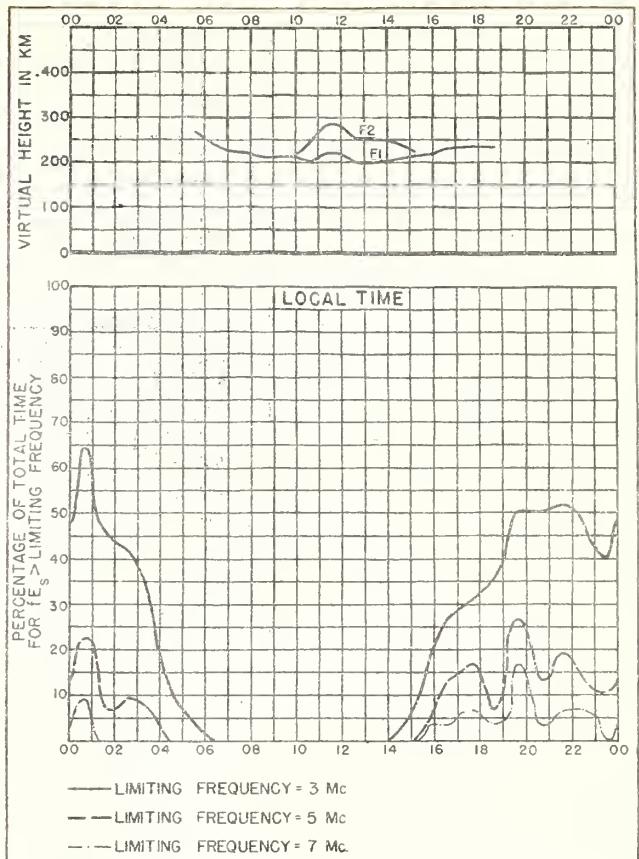


Fig.37. REYKJAVIK, ICELAND

MARCH, 1945

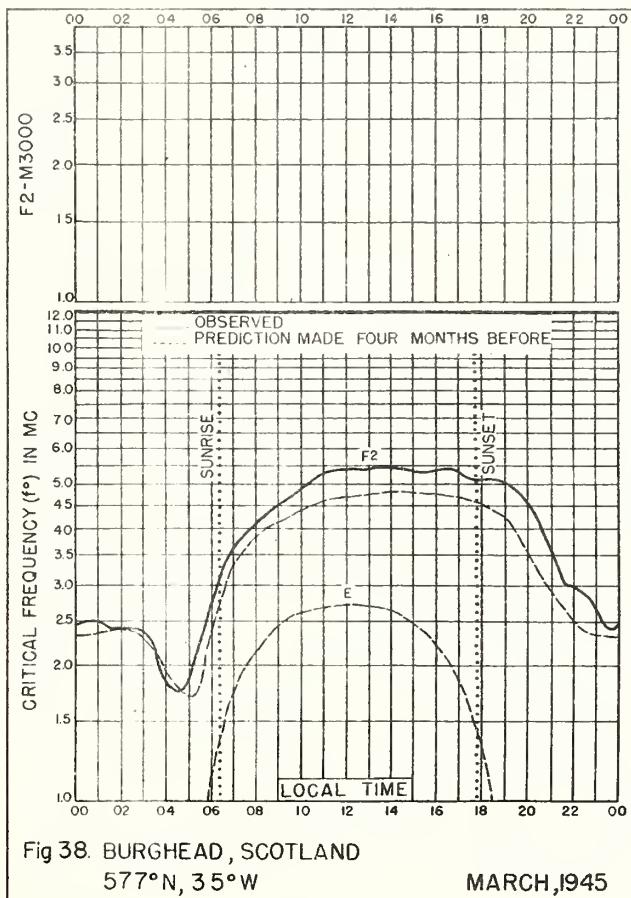


Fig 38. BURGHEAD, SCOTLAND

57.7°N, 35°W

MARCH, 1945

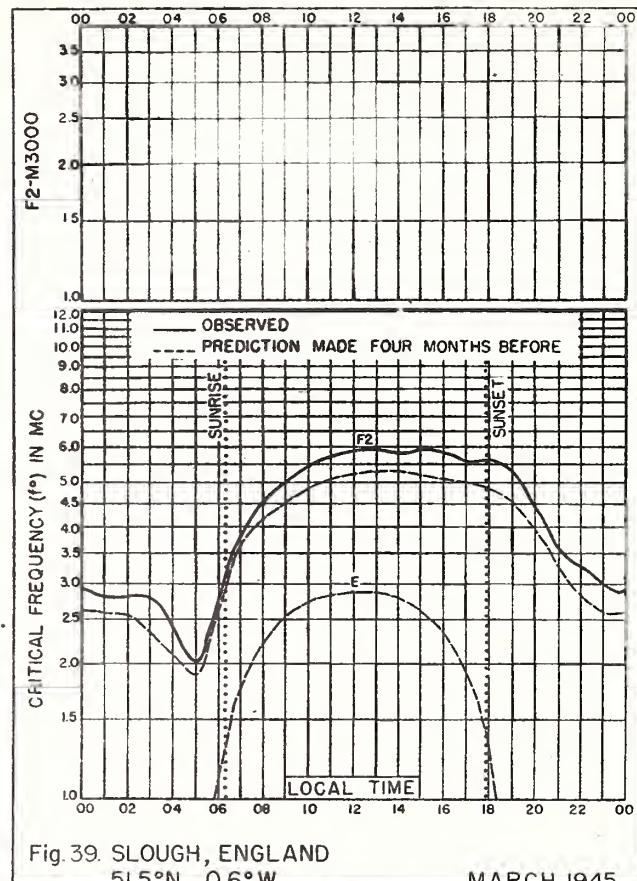


Fig. 39. SLOUGH, ENGLAND
51.5°N, 0.6°W

MARCH, 1945

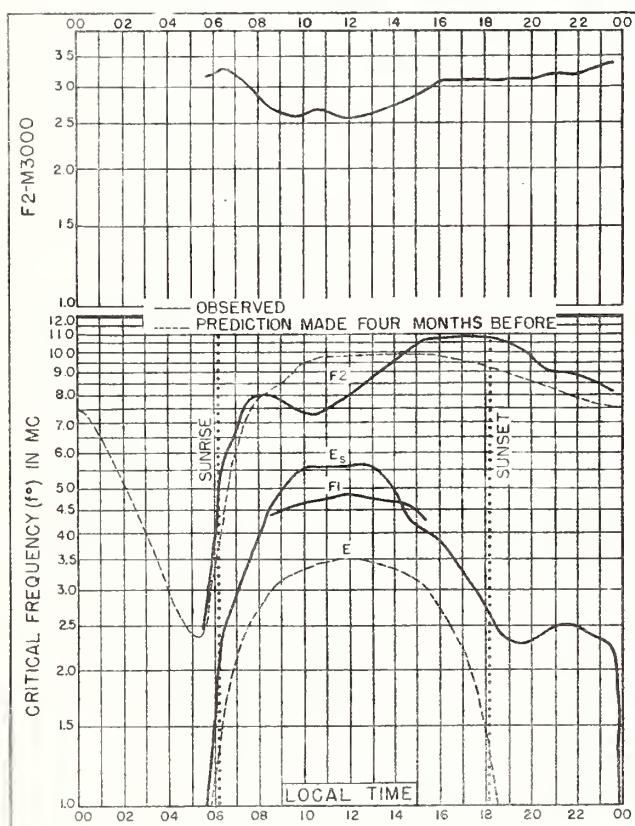


Fig 40 CHRISTMAS IS
2.0°N, 157.0°W

MARCH, 1945

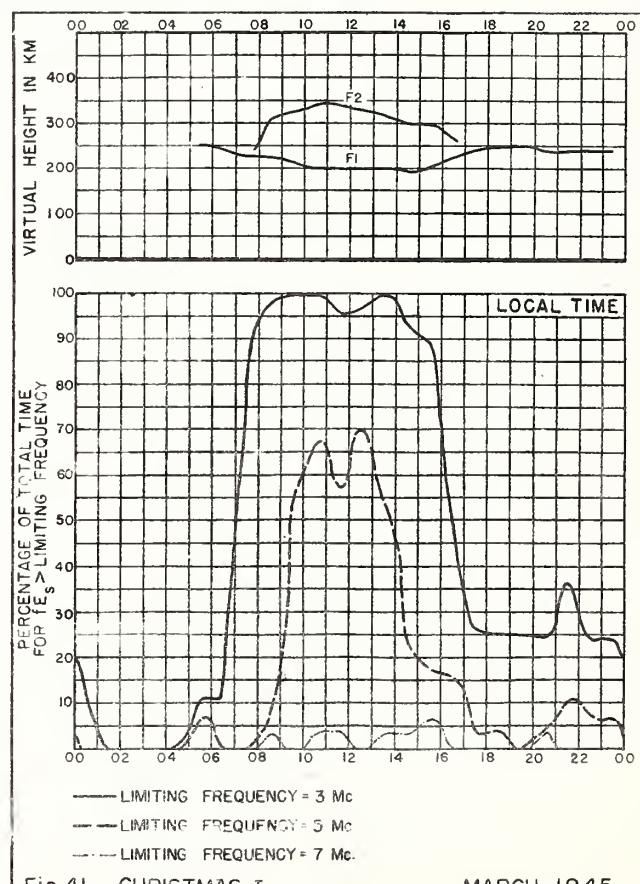
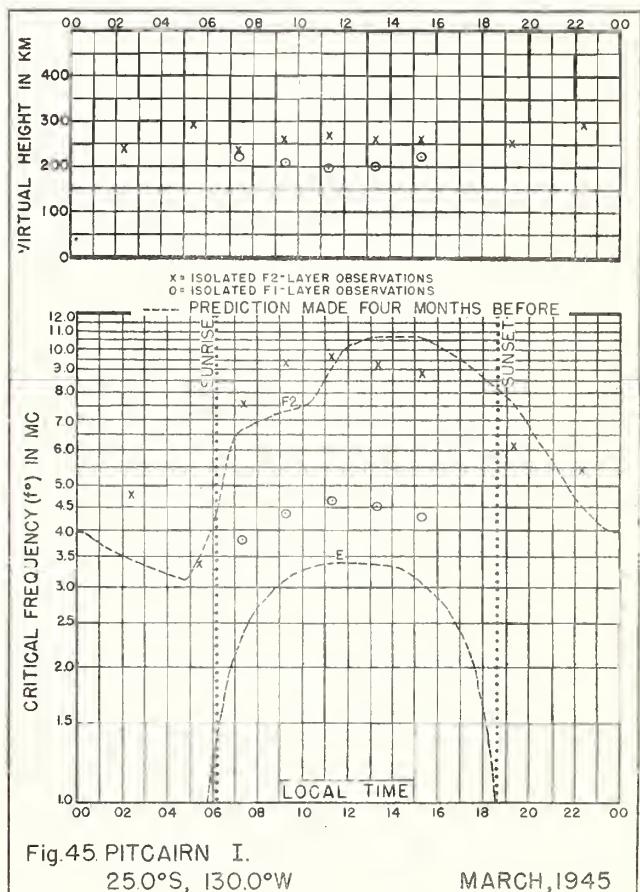
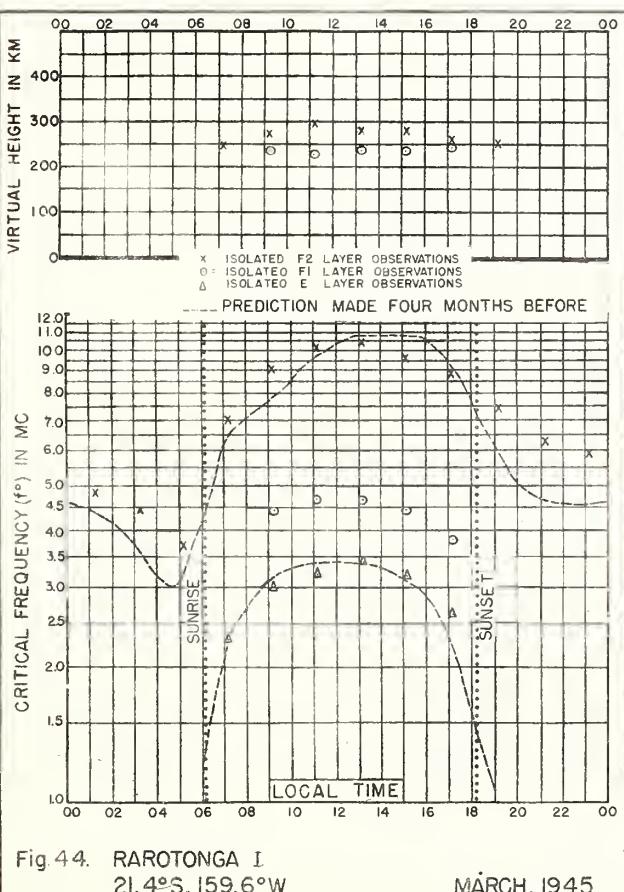
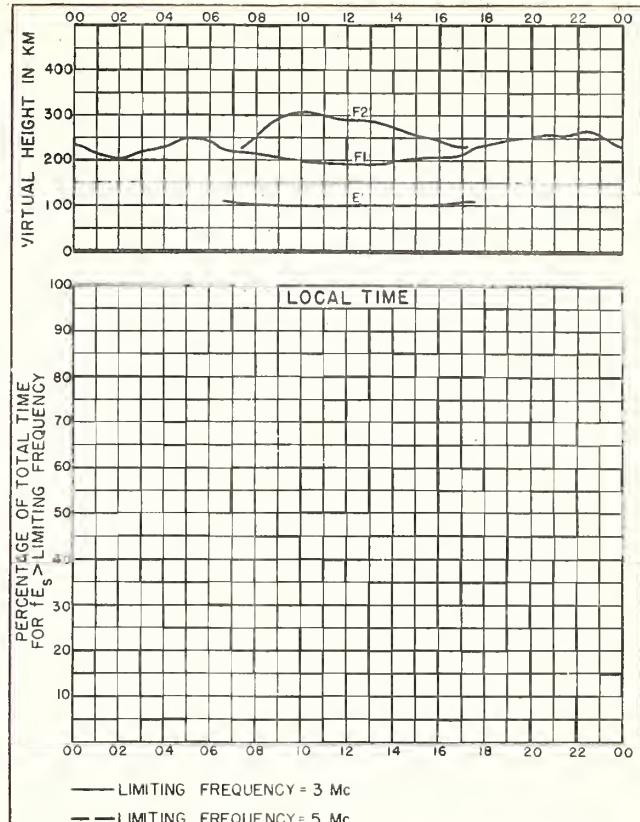
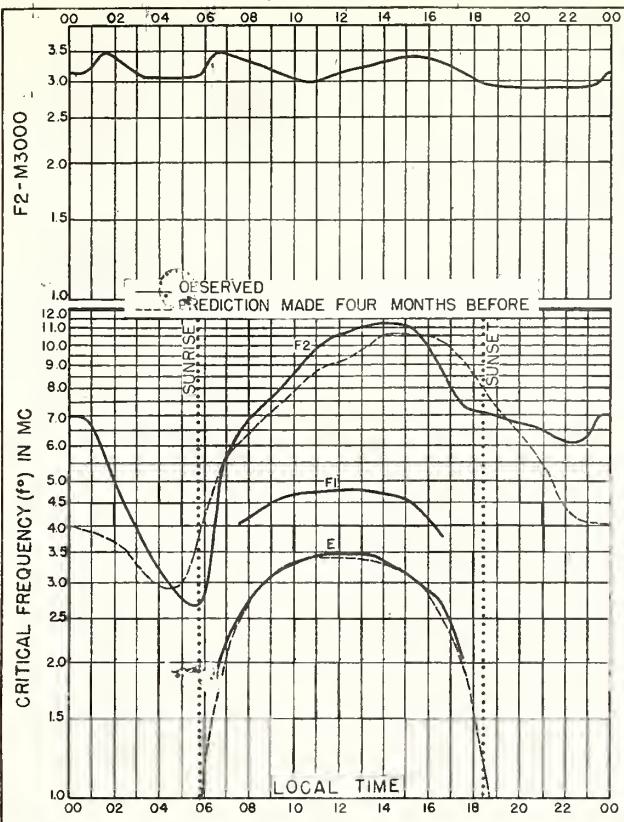


Fig. 41. CHRISTMAS I.

MARCH, 1945



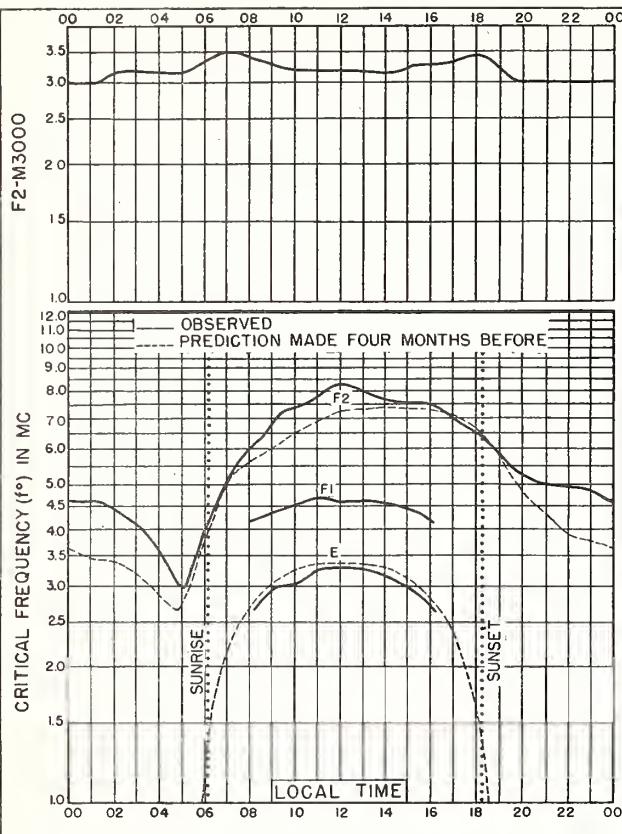


Fig. 46. BRISBANE, Q. AUSTRALIA
27.5°S, 153.0°E MARCH, 1945

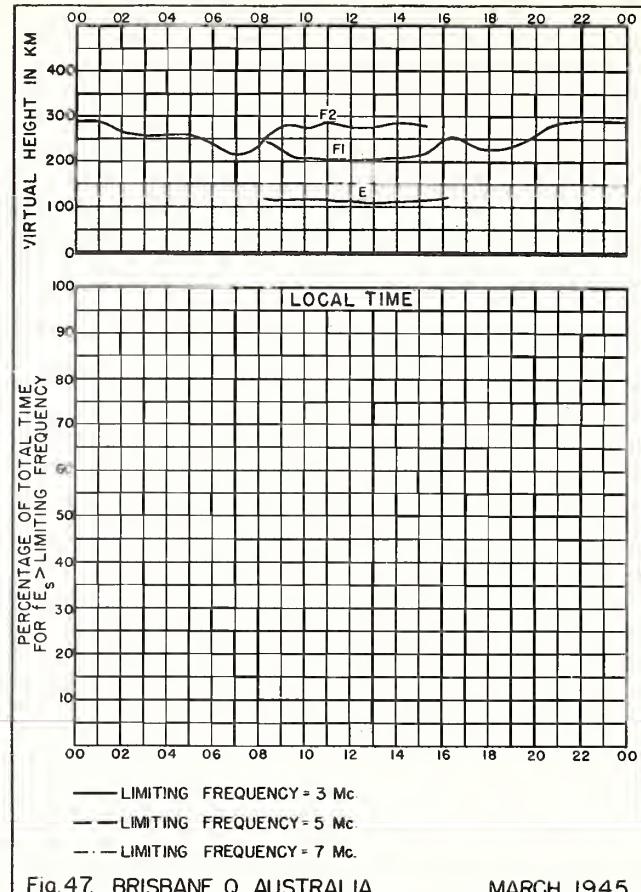


Fig. 47. BRISBANE, Q., AUSTRALIA MARCH, 1945

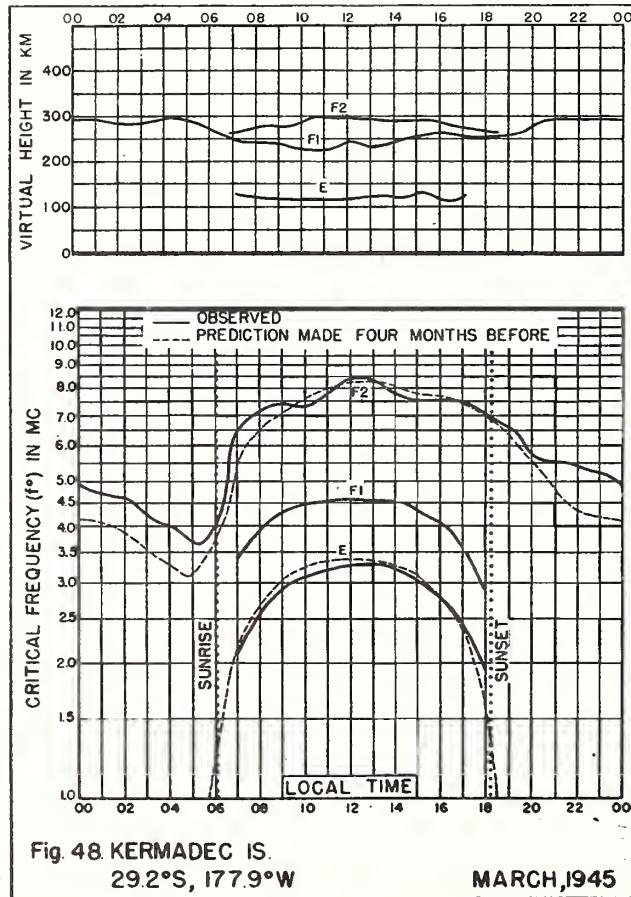


Fig. 48. KERMADEC IS.
29.2°S, 177.9°W MARCH, 1945

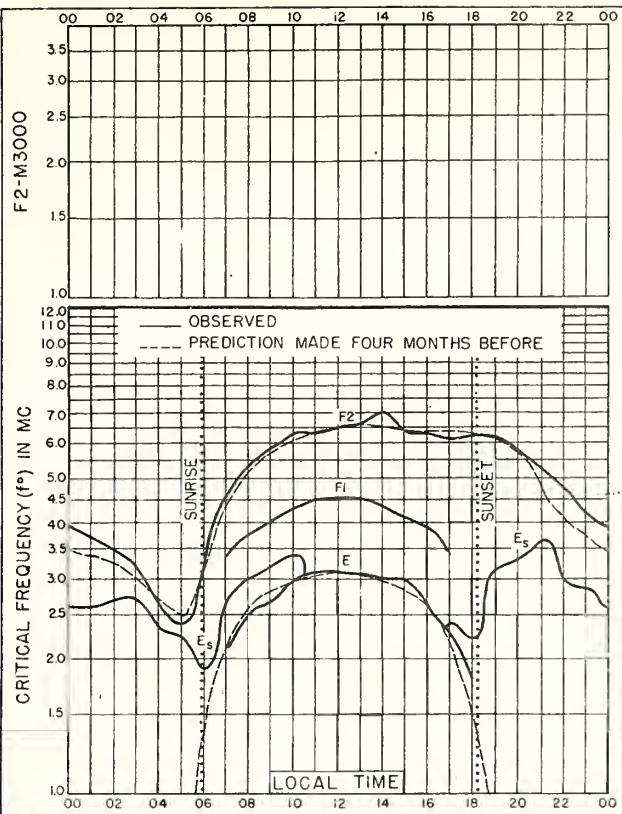


Fig. 49. CHRISTCHURCH, NEW ZEALAND
43°5'S, 172°6'E MARCH, 1945

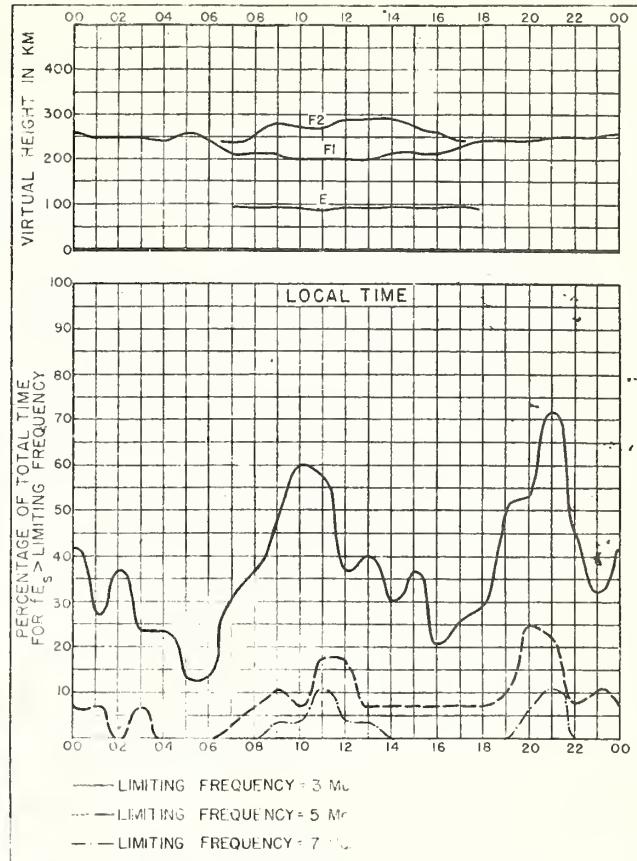


Fig. 50. CHRISTCHURCH, NEW ZEALAND MARCH, 1945

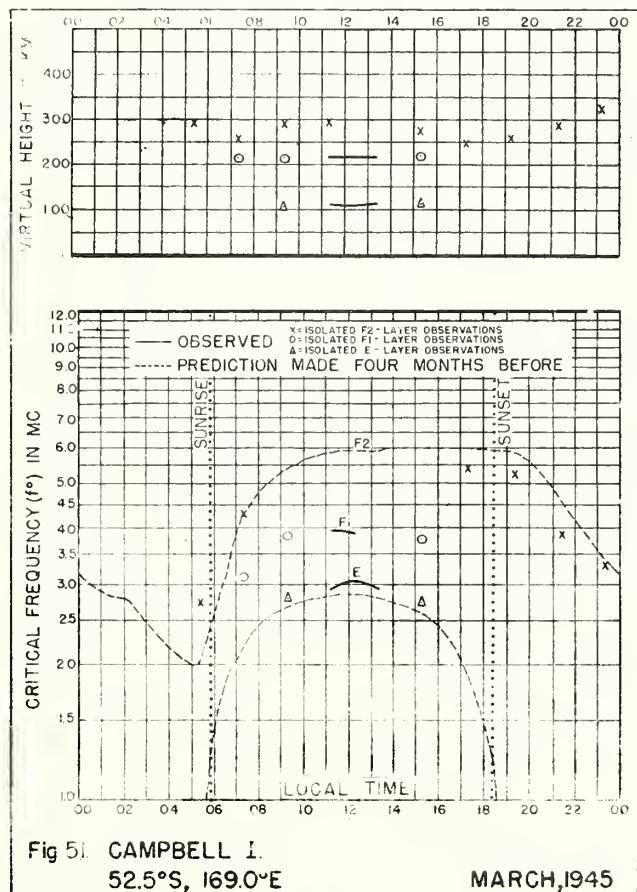


Fig. 51. CAMPBELL I.
52.5°S, 169.0°E MARCH, 1945

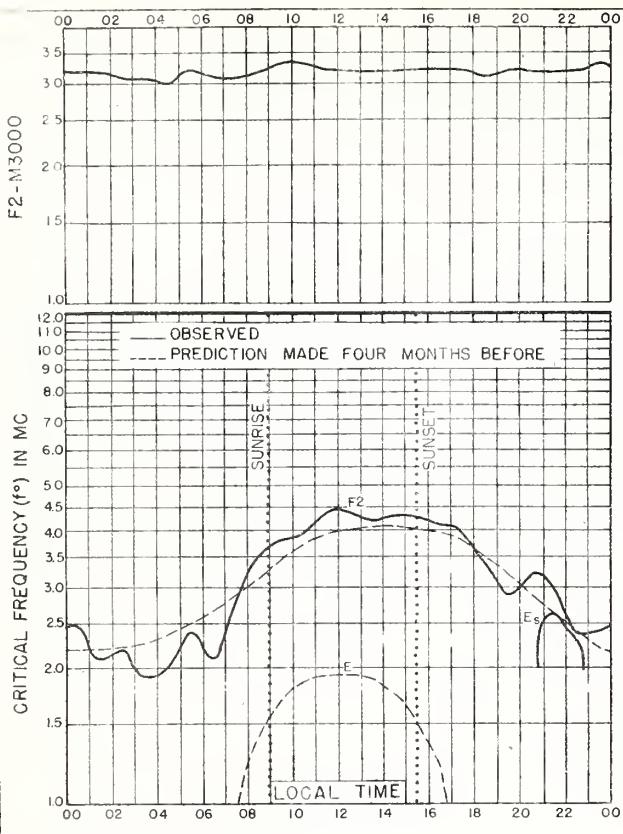


Fig. 52. BAFFIN I., CANADA
70.5°N, 68.6°W

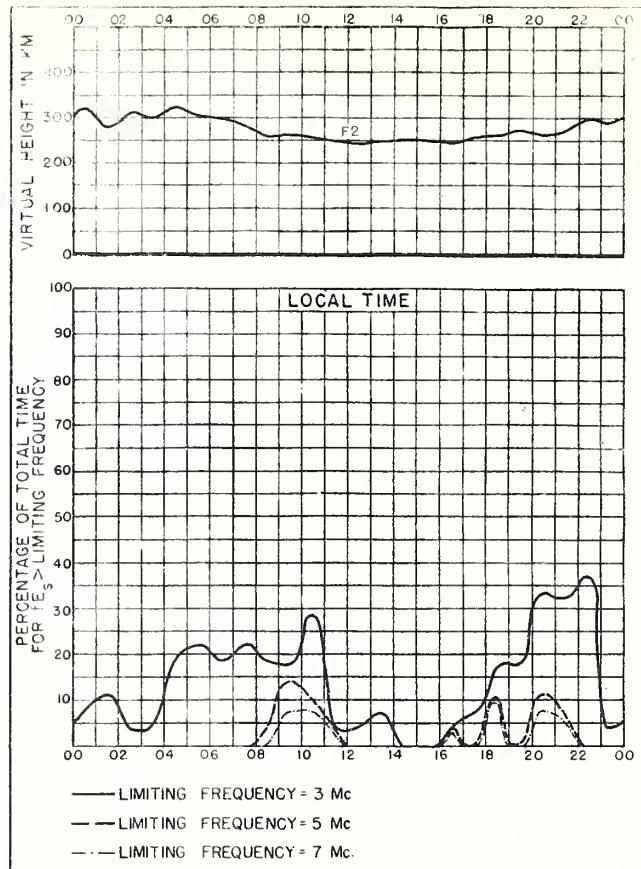


Fig. 53. BAFFIN I., CANADA
FEBRUARY, 1945

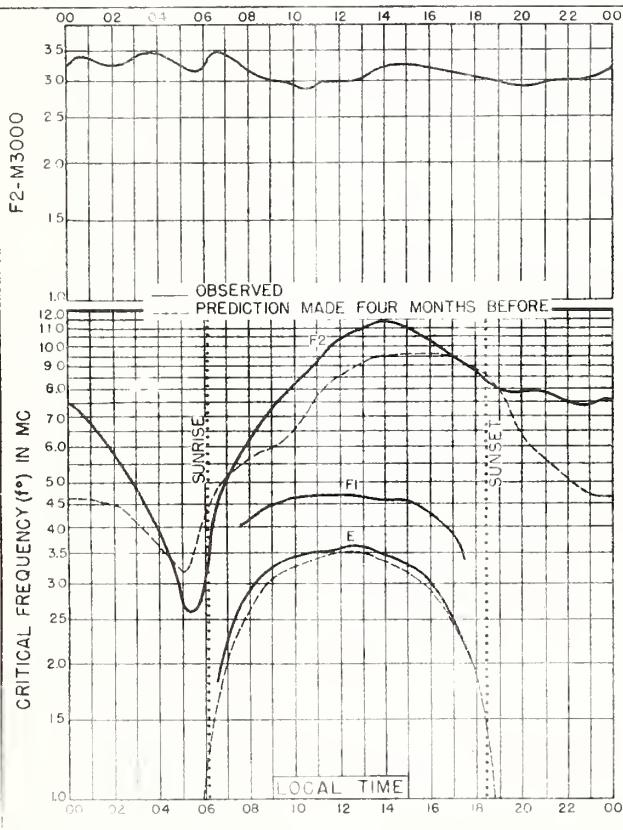


Fig. 54. CAPE YORK, Q., AUSTRALIA
110°S, 142 4°E

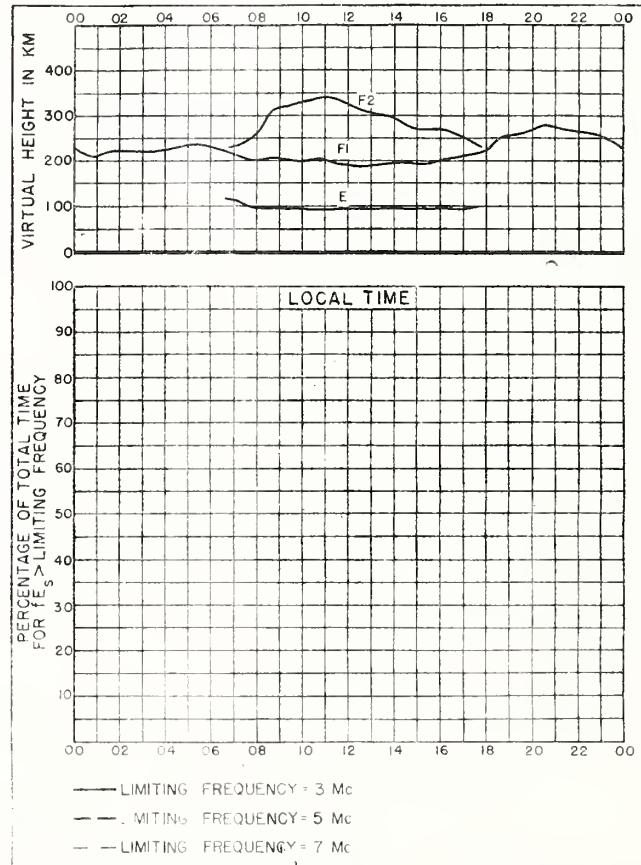


Fig. 55. CAPE YORK, Q., AUSTRALIA
FEBRUARY, 1945

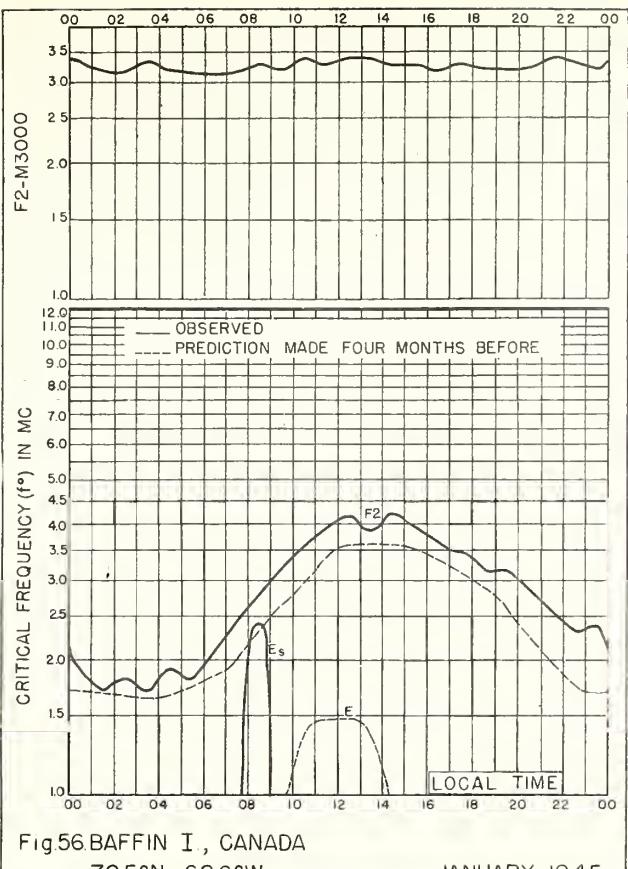


Fig 56 BAFFIN I, CANADA

70.5°N, 68.6°W

JANUARY, 1945

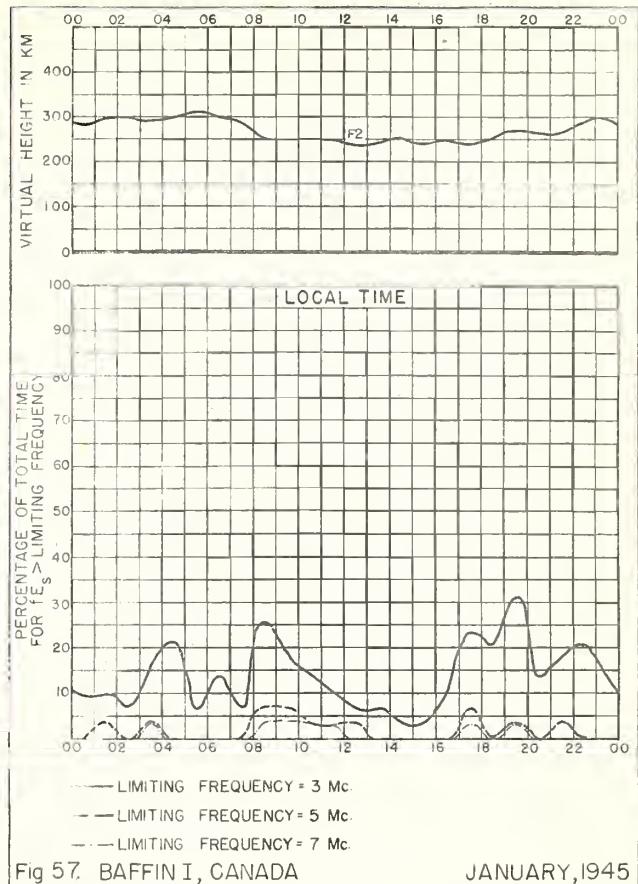


Fig 57. BAFFIN I, CANADA

JANUARY, 1945

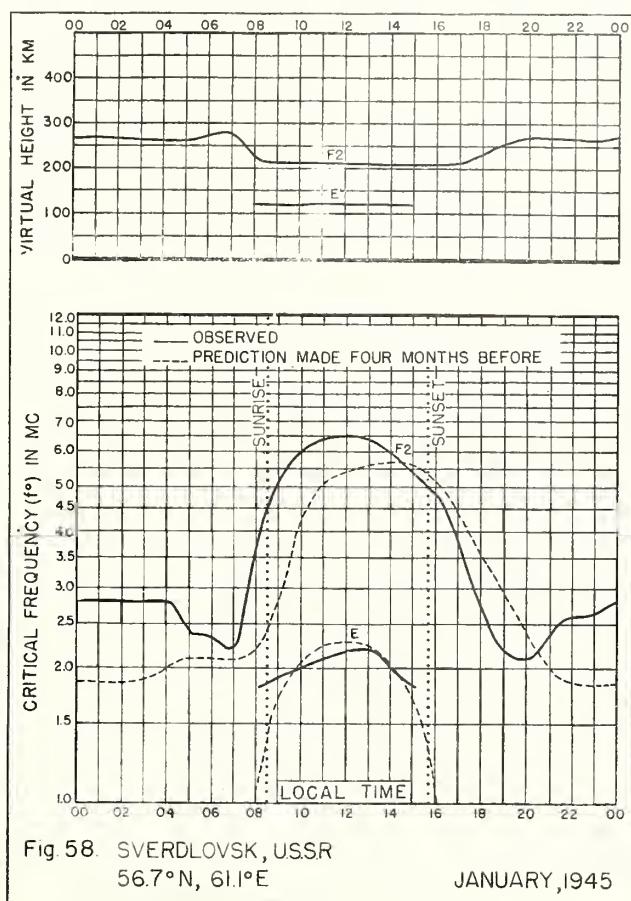
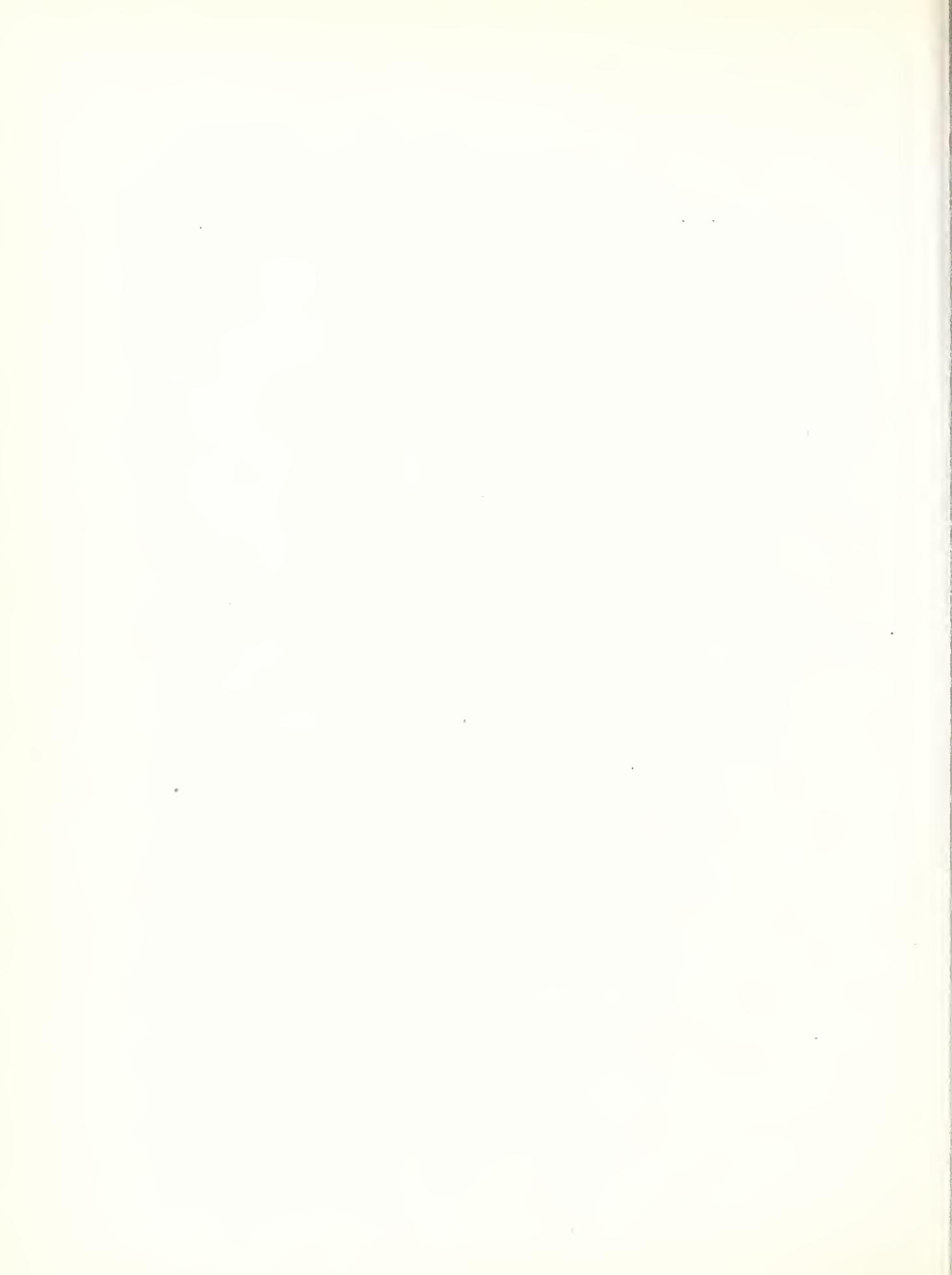


Fig. 58. SVERDLOVSK, USSR

56.7°N, 61.1°E

JANUARY, 1945





Daily:

Telephoned and telegraphed reports of ionospheric, solar, geomagnetic, and radio propagation data from various places.
Radio disturbance warnings.

Semiweekly:

IRPL-J. Radio Propagation Forecast.

Semimonthly:

IRPL-Ja. Semimonthly Frequency Revision Factors for IRPL Basic Radio Propagation Prediction Reports. (Issued with IRPL-J series from 4 to 7 days in advance).

Monthly:

IRPL-D. Basic Radio Propagation Predictions - Three months in advance. (War Dept. TB 11-499-, monthly supplements to TM 11-499; Navy Dept. DNC-13-1 (), monthly supplements to DNC-13-1).

IRPL-F. Ionospheric Data.

Bimonthly:

IRPL-G. Correlation of D.F. Errors with Ionospheric Conditions.

Quarterly:

*IRPL-A. Recommended Frequency Bands for Ships and Aircraft in the Atlantic and Pacific.
IRPL-B. Recommended Frequency Bands for Submarines in the Pacific.
*IRPL-H. Frequency Guide for Operating Personnel.
**IRPL-M. Frequency Guide for Merchant Ships.

Special Reports, etc.:

IRPL Radio Propagation Handbook, Part 1. (War Dept. TM 11-499; Navy Dept. DNC-13-1).
IRPL-C1 through C51. Reports and papers of the International Radio Propagation Conference, 17 April to 5 May 1944.

IRPL-R. Unscheduled reports:

R1. Maximum Usable Frequency Graph Paper.

R2 and R3. Obsolete.

R4. Methods Used by IRPL for the Prediction of Ionosphere Characteristics and Maximum Usable Frequencies.

R5. Criteria for Ionospheric Storminess.

R6. Experimental studies of ionospheric propagation as applied to a navigation system.

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R13. Ionospheric and Radio Propagation Disturbances, October 1943 through February 1945.

IRPL-T. Reports on Tropospheric Propagation.

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