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IONOSPHERIC DATA

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IONOSPHERIC DATA

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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. However, following the recommendations of the International Radio Propagation Conference, held in Washington 17 April to 5 May 1944, beginning with data for 1 Jan. 1945, median values were used by IRPL wherever possible. Thus, median values are given for Washington, for all stations reporting directly to the CRPL, for the Canadian stations, and for all others sending in detailed tabulations to the CRPL, from which medians can be computed.

Where averages are reported, they are, at any hour, the average for all the days during the month for which numerical data existed.

The monthly median values used here are the values equaled 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 $f^{\circ}F2$, as equal to or less than $f^{\circ}F1$.

2. For $h'F2$, as equal to or greater than the median.

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

c. For muf factors (M-factors):

Values missing because of G are counted as equal to or less than the median.

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

d. For sporadic E (E_s):

Values of f^0E_s missing because no E_s reflections appeared, the equipment functioning normally otherwise, are counted as equal to or less than the median f^0E , or equal to or less than the lower frequency count of the recorder.

Values of f^0E_s missing for any other reason, and values of hE_s missing for any reason at all, are omitted from the median count.

Beginning with data for November 1945, doubtful monthly median values for ionospheric observations at Washington, D.C., are indicated by parentheses, in accordance with the practice already in use for doubtful hourly values. The following are the conventions used to determine whether or not a median value is doubtful:

1. If only four values or less are available, no median value is computed, the data being considered insufficient.
2. For the F2 layer, if only five to nine values are available, the median is considered doubtful. The E and F1 layers are so regular in their characteristics that, so long as there are at least five values, the median is not considered as doubtful.
3. For all layers, if more than half of the values used to compute the median are doubtful (either doubtful or interpolated), the median is considered doubtful.

It is expected that this practice will be of assistance in evaluating the monthly median Washington data.

The same conventions are used by the CRPL in computing the medians from tabulations of daily and hourly data for stations other than Washington, beginning with the tables in IRPL-F18.

"Extent of E" is defined as follows: the highest value of f^0E . This is usually E_s , but may include cases of normal E which were difficult to distinguish from E_s , owing to the absence of a definite cusp.

MONTHLY AVERAGE AND MEDIAN VALUES OF WORLD-WIDE IONOSPHERIC DATA

The ionospheric data given here in Tables 1 to 80 and Figs. 1 to 87 were assembled by the Central Radio Propagation Laboratory for analysis and correlation, incidental to CRPL predictions of radio propagation conditions. The data are median values unless otherwise indicated. The following are the sources of the data:

Australian Council for Scientific and Industrial Research, Radio Research Board, Australia:

Brisbane, Australia
Canberra, Australia
Cape York, Australia
Hobart, Tasmania
Townsville, Australia

British Department of Scientific and Industrial Research (National Physical Laboratory):

Slough, England
Great Baddow, England
Burghead, Scotland
Capetown, Union of S. Africa
Colombo, Ceylon
Oslo, Norway
Cairo, Egypt
Falkland Is.
Tromso, Norway

Canadian Radio Wave Propagation Committee:

Churchill, Canada
Ottawa, Canada
St. John's, Newfoundland
Prince Rupert, Canada
Clyde, Baffin I.

New Zealand Radio Research Committee:

Kermadec Is.
Christchurch (Canterbury University College Observatory)
Campbell I.
Pitcairn I.
Rarotonga I.

South African Council for Scientific and Industrial Research: Johannesburg, Union of S. Africa

Scientific Research Institute of Terrestrial Magnetism, Moscow, U.S.S.R.:
Bukhta Tikhaya, U.S.S.R.
Tomsk, U.S.S.R.
Sverdlovsk, U.S.S.R.
Moscow, U.S.S.R.
Leningrad, U.S.S.R.
Alma Ata, U.S.S.R.

Carnegie Institution of Washington (Department of Terrestrial Magnetism):
Huancayo, Peru
Watheroo, W. Australia

United States Army Signal Corps:
Leyte, Philippine Is.
Tokyo, Japan
Okinawa, I.

National Bureau of Standards (Central Radio Propagation Laboratory):
Washington, D. C.
San Francisco, California (Stanford University)
Baton Rouge, Louisiana (Louisiana State University)
San Juan, Puerto Rico (University of Puerto Rico)
Boston, Massachusetts (Harvard University)
Fairbanks, Alaska (University of Alaska, College, Alaska)
Palmyra I.
Adak, Alaska
Guam I.
Maui, Hawaii
Trinidad, British West Indies

All India Radio (Government of India), New Delhi, India:
Bombay, India
Delhi, India
Madras, India
Peshawar, India

Radio Wave Research Laboratories, Central Broadcasting Administration:
Chungking, China
Peiping, China

National Wuhan University:
Wuchang, China

The tables of "provisional data" give values (1) as reported either to the CRPL or other central laboratory by telephone or telegraph; or (2) which are reported in summary form by stations from which monthly ionospheric data for every day and every hour may normally be expected at a later date.

The tables and graphs of "final data" are correct for the values reported to the CRPL, 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^oF2 is less than or equal to f^oF1 , 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.

The dashed-line prediction curves of the graphs of ionospheric data are obtained from the predicted zero-muf contour charts of the CRPL-D series publications. Predictions for individual stations used to construct the charts may be more accurate than the values read from the chart since some smoothing of the contours is necessary to allow for the longitude effect within a zone.

Discrepancies between predicted and observed values are often ascribable to these effects.

IONOSPHERIC DATA FOR EVERY DAY AND HOUR AT WASHINGTON, D. C.

The data given in Tables 69 to 80 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 above under "Terminology and Scaling Practices".

IONOSPHERE DISTURBANCES

Table 81 presents ionosphere character figures for Washington, D.C., during August 1946, 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 82 lists for the stations whose locations are given the sudden ionosphere disturbances observed on the continuous field intensity recordings made at the Sterling Radio Propagation Laboratory during August 1946.

Table 83 lists for the stations whose locations are given the sudden ionosphere disturbances observed at the Brentwood and Somerton, England receiving stations of Cable and Wireless Ltd. during July and August 1946.

Table 84 gives provisional radio propagation quality figures for North Atlantic and North Pacific areas, for 01 to 12 and 13 to 24 GCT, July 1946, compared with the CRPL daily radio disturbance warnings, which are primarily for the North Atlantic paths, the CRPL weekly radio propagation forecasts of probable disturbed periods, and the half-day American geomagnetic K-figures.

The radio propagation quality figures for the North Atlantic were prepared from radio traffic and ionospheric data reported to the CRPL, in the manner described in detail in report IRPL-R31, "North Atlantic Radio Propagation Disturbances October 1943 through October 1945," issued 1 Feb. 1946.

The radio propagation quality figures for the North Pacific were prepared from radio traffic and ionospheric data reported to the CRPL, in a manner similar to that of IRPL-R31. The master scale of IRPL-R31 was used to formulate conversion scales for the North Pacific reports. Currently, beginning with CRPL-F23, issued July 1946, the North Pacific radio propagation quality figures reported are prepared from these revised conversion scales rather than, as hitherto, from the conversion scales of report IRPL-R13, "Ionospheric and Radio Propagation Disturbances, October 1943 through February 1945," issued 24 May 1945.

These radio propagation quality figures give a consensus of opinion of actual radio propagation conditions as reported by the half day over the two general areas. It should be borne in mind, however, that though the quality may be disturbed according to the CRPL scale, the cause of the disturbance is not necessarily known. There are many variables that must be considered. In addition to ionospheric storminess itself as the

cause, conditions may be reported as disturbed because of seasonal characteristics, such as are particularly evident in the pronounced day and night contrast over North Pacific paths during the winter months, or because of improper frequency usage for the path and time of day in question. Insofar as possible, frequency usage is included in rating the reports. Where the actual frequency usage is not shown in the report to the CRPL, it has been assumed that the report is made on the use of optimum working frequencies for the path and time of day in question. Since there is a possibility that all of the disturbance shown by the quality figures is not due to ionospheric storminess alone, care should be taken in using the quality figures in research correlations with solar, auroral, geomagnetic, or other data. Nevertheless, these quality figures do reflect a consensus of opinion of actual radio propagation conditions as found on any one half-day in either of the two general areas.

AMERICAN RELATIVE SUNSPOT NUMBERS

Table 85 presents the daily median values of relative sunspot numbers as reported by American observers. The reports have been reduced, by appropriate constants, approximately to the Zurich scale of relative sunspot numbers. The monthly relative sunspot number is the mean of the daily median values listed in the table. This method was devised by Mr. A. H. Shapley of DTM, CIW. Details will be found in "Popular Astronomy," Vol. 54, No. 7, pp. 351 to 358, Aug. 1946; title, American Observations of Relative Sunspot Numbers in 1945 for Application to Ionospheric Predictions - by A. H. Shapley.

ERRATA

1. CRPL-F24:
Tables 1², 23, 24, 25, 27, and 28 should read median values, and not average values.
2. CRPL-F23:
Tables 18, 20, 21, 22, and 24 should read median values, and not average values.
3. IRPL-F22:
Table 15 should read median values, and not average values.

4. CRPL-F24, Table 56 should read at hours indicated:

<u>Time</u>	<u>f°F2</u>	<u>F2-M3000</u>
0000	10.3	
0300		3.1
1000	9.9	
1400	10.8	
1500	11.2	
1600	11.3	
1700	11.7	2.5
1900	(11.3)	(2.5)
2000	10.2	(2.4)
2100	(9.5)	(2.6)
2200	(9.8)	
2300	10.0	(2.7)

Corresponding changes in the graphs of Figs. 45 and 46 of same issue should be visualized.

5. CRPL-F24, Table 64 should read at hours indicated:

<u>Time</u>	<u>f°F2</u>	<u>F2-M3000</u>
0000	11.4	3.0
0100	11.2	
0300	7.1	
0400	6.1	
0600	4.6	
0700	7.7	
1000	11.1	
1100	10.4	
1200	10.3	
1300	10.9	
1400	11.5	
1500	12.0	
1600	12.5	2.5
1700	13.0	
1900	11.6	2.5
2100	11.5	(2.4)
2200	12.4	2.8
2300	11.8	(2.8)

Corresponding changes in the graphs of Figs. 60 and 61 of same issue should be visualized.

6. In previous issues of the IRPL-F and CRPL-F series, values of F2-M3000 for Slough, England were computed from average values, and were not median values.

Table 1 (Provisional data)

Clyde, Baffin I. (70.5°N, 68.6°W)

August 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	h'S	f'S	h'N	f'N	h'P2	f'P2	h'P1	f'P1	h'E	f'E	h'S	f'S	h'N	f'N
00		4.9			3.1						310	4.6			1.0	3.6	2.7			
01		5.2			3.0						300	4.4			1.1	3.3	2.6			
02		4.8			3.1						310	4.5			1.3	3.3	2.6			
03		4.5			3.2						310	4.5			1.7	3.0	2.6			
04		5.0			3.2						320	4.9			1.8	3.3	2.6			
05		4.9			3.1						350	5.4			2.2	3.3	2.6			
06		5.0			3.1						390	6.8			2.6	3.3	2.6			
07		5.2			3.1						360	6.2			2.8	3.4	2.7			
08		5.3			3.2						370	6.4			3.0	3.5	2.6			
09		5.4			3.1						370	6.8			3.2	3.6	2.6			
10		5.4			3.1						380	6.6			3.3	3.5	2.7			
11		5.3			2.9						390	6.7			4.8	3.3	4.0			
12		5.5			2.9						390	6.6			4.9	3.3	3.7			
13		5.4			2.8						410	6.6			4.9	3.3	3.7			
14		5.6			2.9						370	6.5			4.8	3.2	3.6			
15		5.4			2.8						380	6.3			4.6	3.1	2.7			
16		5.3			3.0						340	6.2			4.4	2.9	3.3			
17		5.4			3.0						270	6.2			4.3	2.7	3.7			
18		5.3			3.0						260	6.4			2.3	3.2	2.8			
19		5.3			3.0						20	5.8			2.0	3.2	2.9			
20		5.2			3.0						21	270	5.4		1.8	3.0	2.9			
21		5.1			3.0						22	270	5.0		1.5	3.1	2.8			
22		4.9			3.0						23	280	4.6		1.1	3.2	2.8			
23		4.9													1.0	3.5	2.7			

Time: 75.0°W.
Sweep: 2.0 Mc to 16.0 Mc in one minute.

Table 3 (Provisional data)

Churchill, Canada (58.8°N, 94.2°W)

August 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	h'S	f'S	h'N	f'N	h'P2	f'P2	h'P1	f'P1	h'E	f'E	h'S	f'S	h'N	f'N
00		4.8			2.8						00	4.5			3.0					
01		5.1			2.7						01	4.1			3.0					
02		4.8			2.8						02	3.8			2.9					
03		4.7			2.8						03	2.4			3.0					
04		4.6			2.9						04	3.3			3.0					
05		4.7			2.9						05	3.7			3.0					
06		5.2			3.0						06	4.7			3.0					
07		5.6			3.0						07	5.4			3.0					
08		6.1			2.9						08	6.0			3.0					
09		6.4			2.9						09	6.2			2.8					
10		6.4			2.8						10	6.8			2.9					
11		6.6			2.8						11	7.2			3.0					
12		6.8			2.7						12	7.4			2.8					
13		6.8			2.6						13	6.9			2.9					
14		6.8			2.7						14	6.8			3.2					
15		7.4			2.7						15	6.9			2.9					
16		7.3			2.6						16	6.5			3.0					
17		7.4			2.8						17	6.7			3.1					
18		6.9			2.8						18	6.4			3.2					
19		6.6			2.8						19	6.5			3.2					
20		6.0			2.9						20	6.2			3.1					
21		5.9			2.8						21	6.1			3.2					
22		5.8			2.8						22	5.9			3.2					
23		5.6			2.7						23	5.1			3.1					

Time: 90.0°W.
Sweep: 2.0 Mc to 16.0 Mc in one minute.

Table 2 (Provisional data)

Fairbanks, Alaska (64.9°N, 147.8°W)

August 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	h'S	f'S	h'N	f'N	h'P2	f'P2	h'P1	f'P1	h'E	f'E	h'S	f'S	h'N	f'N
00		3.1			4.6						00	310	4.6		1.0	3.6	2.7			
01		3.0			4.4						01	310	4.4		1.1	3.3	2.6			
02		3.1			4.5						02	310	4.5		1.3	3.3	2.6			
03		3.2			4.9						03	320	4.9		1.7	3.0	2.6			
04		3.1			5.0						04	320	5.0		1.8	3.3	2.6			
05		3.0			5.4						05	350	5.4		2.2	3.3	2.6			
06		3.1			5.6						06	390	5.6		2.5	3.3	2.6			
07		3.1			6.2						07	360	6.2		2.8	3.4	2.7			
08		3.2			6.2						08	240	4.2		3.0	3.5	2.6			
09		3.1			6.4						09	240	4.5		3.0	3.5	2.6			
10		3.0			6.8						10	230	4.6		3.2	3.6	2.6			
11		3.0			6.8						11	230	4.6		3.3	3.5	2.7			
12		3.0			6.9						12	230	4.8		4.8	3.0	2.7			
13		3.0			6.9						13	230	4.8		2.7	3.2	2.8			
14		3.0			6.9						14	230	4.8		2.8	3.2	2.8			
15		3.0			7.0						15	230	4.8		2.9	3.2	2.8			
16		3.0			7.0						16	230	4.8		6.5	3.0	2.9			
17		3.0			7.0						17	230	4.8		6.7	3.0	2.9			
18		3.0			7.0						18	230	4.8		6.4	3.1	2.9			
19		3.0			7.0						19	230	4.8		6.5	3.2	3.2			
20		3.0			7.0						20	230	4.8		6.2	3.2	3.2			
21		3.0			7.0						21	230	4.8		6.1	3.2	3.2			
22		3.0			7.0						22	230	4.8		5.9	3.2	3.2			
23		3.0			7.0						23	230	4.8		5.7	3.1	3.1			

Table 2 (Provisional data)

Prince Rupert, Canada (54.3°N, 130.3°W)

August 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	h'S	f'S	h'N	f'N	h'P2	f'P2	h'P1	f'P1	h'E	f'E	h'S	f'S	h'N	f'N
00		4.8			2.8						00	4.5			3.0					
01		5.1			2.7						01	4.1			3.0					
02		4.8			2.8						02	3.8			2.9					
03		4.7			2.8						03	3.4			3.0					
04		4.6			2.9						04	3.3			3.0					
05		4.7			2.9						05	3.7			3.0					
06		5.2			3.0						06	4.7			3.0					
07		5.6			3.0						07	5.4			3.0					
08		6.1			2.9						08	6.0			3.0					
09																				

Table 5 (Provisional data)

August 1946						
Time	h'F2	f ⁰ F2	h'E	f ⁰ E	foE	F2-M5000
00	280	5.4			4.2	2.8
01						
02						
03						
04						
05	380	6.4	220	4.1	2.5	2.9
06	350	7.0	230	4.5	2.7	4.5
08	310	7.4	220	4.7	2.8	6.0
09	300	7.8	210	4.9	2.8	5.3
10	310	8.0	220	5.1	2.8	5.0
11						
12	310	8.1	210	5.1	2.9	5.2
13	310	7.6	220	5.3	3.0	4.7
14	300	7.6	220	5.1	2.8	3.1
15						
16						
17						
18	250	7.4			3.9	3.2
19	260	7.4			4.0	3.2
20	250	7.2			3.5	3.0
21	250	6.9			3.4	3.0
22	260	6.4			3.5	2.9
23	280	5.5			3.9	2.9

Time: 180.0°W.
Sweep: Manual operation.

Table 6 (Provisional data)

St. John's, Newfoundland (47.6°N, 52.7°W) August 1946						
Time	h'F2	f ⁰ F2	h'E	f ⁰ E	foE	F2-M5000
00	00					
01	01					
02	02					
03	03					
04	04					
05	05					
06	06					
07	07					
08	08					
09	09					
10	10					
11	11					
12	12					
13	13					
14	14					
15	15					
16	16					
17	17					
18	18					
19	19					
20	20					
21	21					
22	22					
23	23					

Time: 52.5°N,
Sweep: Manual operation.

Table 7 (Provisional data)

Ottawa, Canada (45.5°N, 75.8°W) August 1946						
Time	h'F2	f ⁰ F2	h'E	f ⁰ E	foE	F2-M5000
00	5.2					
01	4.9					
02	4.5					
03	3.8					
04	3.5					
05	3.7					
06	4.9					
07	5.8					
08	6.0					
09	6.5					
10	6.6					
11	6.6					
12	6.6					
13	6.9					
14	7.0					
15	7.0					
16	7.4					
17	7.4					
18	7.8					
19	7.6					
20	7.5					
21	7.0					
22	6.2					
23	5.4					

Time: 75.0°W.
Sweep: Manual operation.

Table 6 (Provisional data)

St. John's, Newfoundland (47.6°N, 52.7°W) August 1946						
Time	h'F2	f ⁰ F2	h'E	f ⁰ E	foE	F2-M5000
00	00					
01	01					
02	02					
03	03					
04	04					
05	05					
06	06					
07	07					
08	08					
09	09					
10	10					
11	11					
12	12					
13	13					
14	14					
15	15					
16	16					
17	17					
18	18					
19	19					
20	20					
21	21					
22	22					
23	23					

Boston, Massachusetts (42.4°N, 71.2°W) August 1946						
Time	h'F2	f ⁰ F2	h'E	f ⁰ E	foE	F2-M5000
00	00					
01	01					
02	02					
03	03					
04	04					
05	05					
06	06					
07	07					
08	08					
09	09					
10	10					
11	11					
12	12					
13	13					
14	14					
15	15					
16	16					
17	17					
18	18					
19	19					
20	20					
21	21					
22	22					
23	23					

Boston, Massachusetts (42.4°N, 71.2°W) August 1946						
Time	h'F2	f ⁰ F2	h'E	f ⁰ E	foE	F2-M5000
00	00					
01	01					
02	02					
03	03					
04	04					
05	05					
06	06					
07	07					
08	08					
09	09					
10	10					
11	11					
12	12					
13	13					
14	14					
15	15					
16	16					
17	17					
18	18					
19	19					
20	20					
21	21					
22	22					
23	23					

Boston, Massachusetts (42.4°N, 71.2°W) August 1946						
Time	h'F2	f ⁰ F2	h'E	f ⁰ E	foE	F2-M5000
00	00					
01	01					
02	02					
03	03					
04	04					
05	05					
06	06					
07	07					
08	08					
09	09					
10	10					
11	11					
12	12					
13	13					
14	14					
15	15					
16	16					
17	17					
18	18					
19	19					
20	20					
21	21					
22	22					
23	23					

Boston, Massachusetts (42.4°N, 71.2°W) August 1946						
Time	h'F2	f ⁰ F2	h'E	f ⁰ E	foE	F2-M5000
00	00					
01	01					
02	02					
03	03					
04	04					
05	05					
06	06					
07	07					
08	08					
09	09					
10	10					
11	11					
12	12					
13	13					
14	14					
15	15					
16	16					
17	17					
18	18					
19	19					
20	20					
21	21					
22	22					
23	23					

Boston, Massachusetts (42.4°N, 71.2°W) August 1946						
Time	h'F2	f ⁰ F2	h'E	f ⁰ E	foE	F2-M5000
00	00					

Table 9 (Provisional data)

San Francisco, California (37°4'N, 122°2'W)						August 1946					
Time	h ¹ F2	2 ⁰ F2	h ¹ Hf	f ⁰ T ₁	h ¹ E	f ⁰ E	f ⁰ T ₁	h ¹ E	f ⁰ E	f ⁰ T ₁	P2-M3000
00	5.3	2.6	8.5	3.4	2.6	5.4	2.6	0.0	5.4	2.6	2.9
01	5.1	2.6	8.2	3.4	2.7	5.4	2.7	0.1	5.4	2.7	3.0
02	5.0	2.6	8.4	3.4	2.7	5.2	2.7	0.2	5.2	2.7	3.0
03	4.8	2.7	8.4	3.4	2.7	4.9	2.7	0.3	4.9	2.7	3.0
04	4.8	2.7	8.5	3.4	2.7	4.6	2.7	0.4	4.6	2.7	3.0
05	4.4	2.8	8.5	3.4	2.8	4.4	2.8	0.5	4.4	2.8	3.0
06	5.8	3.0	8.4	3.4	3.0	5.1	3.0	0.6	5.1	3.0	3.0
07	7.1	3.0	8.7	3.4	3.0	6.6	3.0	0.7	6.6	3.0	3.0
08	7.7	2.8	8.5	2.8	2.8	7.5	2.8	0.8	7.5	2.8	3.2
09	8.2	2.7	8.4	2.7	2.7	7.4	2.7	0.9	7.4	2.7	3.0
10	8.4	2.8	8.5	2.8	2.8	8.0	2.8	1.0	8.0	2.8	3.0
11	8.5	2.8	8.4	2.8	2.8	8.0	2.8	1.1	8.0	2.8	2.9
12	8.4	2.8	8.4	2.8	2.8	8.5	2.8	1.2	8.5	2.8	2.9
13	8.7	2.8	8.5	2.8	2.8	9.2	2.8	1.3	9.2	2.8	2.9
14	8.5	2.8	8.5	2.8	2.8	9.5	2.8	1.4	9.5	2.8	2.9
15	8.4	2.9	8.4	2.9	2.9	9.1	2.9	1.5	9.1	2.9	3.0
16	8.2	2.9	8.5	2.9	2.9	9.3	2.9	1.6	9.3	2.9	3.0
17	7.8	3.0	7.8	3.0	3.0	9.2	3.0	1.7	9.2	3.0	3.0
18	7.8	3.0	7.8	3.0	3.0	8.5	3.0	1.8	8.5	3.0	3.1
19	7.2	3.1	7.1	2.9	3.1	7.6	2.9	1.9	7.6	2.9	3.1
20	7.1	2.9	6.3	2.9	2.9	6.5	2.9	2.0	6.5	2.9	3.1
21	6.3	2.9	5.8	2.8	2.8	6.1	2.8	2.1	6.1	2.8	3.1
22	5.8	2.8	5.4	2.8	2.8	5.8	2.8	2.2	5.8	2.8	3.0
23	5.4	2.6	5.4	2.6	2.6	5.6	2.6	2.3	5.6	2.6	2.9

Time: 120°0'W.
Sweep: 0.8 Mc to 12.0 Mc in six minutes. Record centered on the hour.

Table 11 (Provisional data)

Maui, Hawaii (20°8'N, 156°5'W)						August 1946					
Time	h ¹ F2	2 ⁰ F2	h ¹ Hf	f ⁰ T ₁	h ¹ E	f ⁰ E	f ⁰ T ₁	h ¹ E	f ⁰ E	f ⁰ T ₁	P2-M3000
00	300	8.5	200	5.6	3.6	3.4	200	8.1	250	8.1	3.0
01	250	8.2	300	7.3	3.6	3.6	250	8.4	250	8.8	3.0
02	250	6.7	300	7.3	3.3	3.3	250	8.0	250	8.0	3.1
03	250	6.5	200	5.6	3.2	3.2	240	7.0	240	7.0	3.0
04	250	5.3	200	5.6	3.5	3.5	240	6.2	260	6.5	3.1
05	260	6.3	200	7.8	3.4	3.4	260	6.5	260	6.5	3.1
06	250	7.5	200	4.4	3.4	3.4	230	7.4	230	7.4	2.2
07	250	8.0	250	4.6	3.6	3.6	250	8.1	220	8.1	3.1
08	250	8.4	200	5.6	3.3	3.3	250	8.4	220	8.4	3.3
09	250	9.3	220	5.6	3.4	3.4	320	8.9	300	8.9	3.0
10	400	10.6	220	5.6	3.4	3.4	320	10.2	220	5.6	3.0
11	400	11.6	210	5.6	3.4	3.4	340	11.3	220	5.6	3.1
12	400	11.8	230	5.4	3.4	3.4	340	12.0	220	5.7	3.1
13	360	12.4	250	5.3	3.3	3.3	340	12.3	220	5.6	2.7
14	350	12.4	210	5.1	3.4	3.4	330	12.7	220	5.6	2.7
15	330	12.5	210	5.1	3.4	3.4	320	12.8	220	5.5	2.8
16	300	12.4	250	4.9	3.6	3.6	310	12.5	230	5.3	2.8
17	290	11.0	200	4.0	3.9	3.9	280	12.0	230	5.3	2.8
18	250	11.9	200	10.2	3.6	3.6	260	10.1	270	10.8	2.8
19	280	10.2	100	3.4	3.4	3.4	19	270	20	11.0	3.3
20	300	10.3	9.5	3.4	3.4	3.4	21	260	11.2	11.0	2.8
21	300	9.5	9.4	3.4	3.4	3.4	22	270	10.4	2.6	2.8
23	300	8.2	8.2	3.4	3.4	3.4	23	260	10.1	1.8	2.8

Time: 150°0'W.
Sweep: 2.2 Mc to 16.0 Mc in one minute.

Table 12 (Provisional data)

Baton Rouge, Louisiana (30°5'N, 91°2'W)						August 1946					
Time	h ¹ F2	2 ⁰ F2	h ¹ Hf	f ⁰ T ₁	h ¹ E	f ⁰ E	f ⁰ T ₁	h ¹ E	f ⁰ E	f ⁰ T ₁	P2-M3000
00	5.4	0.1	5.4	0.1	9.3	0.3	5.4	0.1	270	9.3	3.0
01	5.4	0.2	5.4	0.2	9.3	0.4	5.4	0.2	250	8.8	3.0
02	5.4	0.3	5.4	0.3	9.3	0.5	5.4	0.3	250	8.0	3.1
03	5.4	0.4	5.4	0.4	9.3	0.6	5.4	0.4	240	7.0	3.0
04	5.4	0.5	5.4	0.5	9.3	0.7	5.4	0.5	240	6.2	3.1
05	5.4	0.6	5.4	0.6	9.3	0.8	5.4	0.6	260	6.5	3.1
06	5.4	0.7	5.4	0.7	9.3	0.9	5.4	0.7	260	6.5	3.1
07	5.4	0.8	5.4	0.8	9.3	1.0	5.4	0.8	230	7.4	2.2
08	5.4	0.9	5.4	0.9	9.3	1.1	5.4	0.9	220	8.1	3.1
09	5.4	1.0	5.4	1.0	9.3	1.2	5.4	1.0	300	8.9	3.0
10	5.4	1.1	5.4	1.1	9.3	1.3	5.4	1.1	320	10.2	2.7
11	5.4	1.2	5.4	1.2	9.3	1.4	5.4	1.2	340	11.3	4.6
12	5.4	1.3	5.4	1.3	9.3	1.5	5.4	1.3	340	12.0	2.7
13	5.4	1.4	5.4	1.4	9.3	1.6	5.4	1.4	340	12.3	4.6
14	5.4	1.5	5.4	1.5	9.3	1.7	5.4	1.5	330	12.7	2.7
15	5.4	1.6	5.4	1.6	9.3	1.8	5.4	1.6	320	12.8	4.6
16	5.4	1.7	5.4	1.7	9.3	1.9	5.4	1.7	310	12.5	2.8
17	5.4	1.8	5.4	1.8	9.3	2.0	5.4	1.8	280	12.0	4.6
18	5.4	1.9	5.4	1.9	9.3	2.1	5.4	1.9	260	10.1	2.8
19	5.4	2.0	5.4	2.0	9.3	2.2	5.4	2.0	270	10.8	2.8
20	5.4	2.1	5.4	2.1	9.3	2.3	5.4	2.1	270	11.0	3.3
21	5.4	2.2	5.4	2.2	9.3	2.4	5.4	2.2	260	11.2	2.8
22	5.4	2.3	5.4	2.3	9.3	2.5	5.4	2.3	270	10.4	2.8
23	5.4	2.4	5.4	2.4	9.3	2.6	5.4	2.4	260	10.1	2.8

Time: 90.0°W.
Sweep: 1.9 Mc to 9.8 Mc in three minutes, thirty seconds.

Time: 60.0°W.
Sweep: Manual operation.

Table 13 (Provisional data)

Brisbane, Australia (27.5°S, 153.0°E)

August 1946

Time	h ¹ P2	f ¹ P2	h ¹ F1	f ¹ F1	h ¹ E	f ¹ E	f ¹ E	f ² E	F2-M3000
00	5.2		3.0		3.9				2.8
01	4.8		3.0		4.6				2.8
02	4.7		3.0		4.1				2.9
03	4.5		3.0		4.2				2.8
04	4.1		2.8		4.0				2.9
05	4.0		2.9		4.0				3.1
06	4.6		3.0		4.3				3.4
07	7.0		3.2		6.6				3.4
08	8.8		3.2		8.4				3.2
09	9.8		3.2		9.4				3.1
10	10.3		3.2		9.7				3.1
11	10.2		3.1		9.9				3.1
12	9.6		3.1		10.0				3.0
13	9.3		3.0		9.9				3.0
14	9.2		3.1		9.9				3.0
15	9.1		3.0		9.6				3.0
16	8.6		3.1		9.0				3.0
17	8.2		3.1		8.7				3.1
18	7.6		3.0		7.9				3.0
19	6.7		3.0		6.4				3.0
20	6.0		2.9		5.5				3.0
21	5.8		2.9		4.8				3.0
22	5.5		2.9		4.5				2.9
23	5.4		2.9		4.1				2.9

Time: Local.
Sweep: 2.0 Mc to 12.5 Mc in two minutes thirty seconds.

Table 15 (Provisional data; supersedes Table 1, CRPL-P24)

Clyde, Baffin I. (70.5°N, 68.6°W)

July 1946

Time	h ¹ P2	f ¹ P2	h ¹ F1	f ¹ F1	h ¹ E	f ¹ E	f ¹ E	f ² E	F2-M3000
00	300	4.3			8.4				4.4
01	300	4.5			8.3				4.6
02	330	4.6			7.8				4.5
03	340	4.4			6.9				3.6
04	370	4.3			6.3				3.2
05	445	4.2			6.0				2.7
06	490	4.4			6.5				3.2
07	460	4.6			7.4				3.0
08	485	4.6			7.5				3.0
09	(440)	(5.0)			7.6				2.7
10	445	5.0			5.5				3.8
11			3.2		10				4.0
12	(470)	(4.8)			11				5.8
13	(430)	(4.9)			12				2.5
14	450	4.7			13				5.8
15	480	4.9			10.8				4.0
16	440	5.0			14				5.5
17	445	4.7			10.7				2.6
18	380	4.7			15				2.7
19	390	4.6			10.9				3.8
20	345	4.6			11.1				5.1
21	310	4.5			17				2.8
22	320	4.5			18				5.5
23	300	4.4			19				2.8

Time: Local.
Sweep: 2.0 Mc to 16.0 Mc in one minute.

Table 16 (Provisional data)

Orkney I. (26.3°N, 127.8°E)

July 1946

Time	h ¹ P2	f ¹ P2	h ¹ F1	f ¹ F1	h ¹ E	f ¹ E	f ¹ E	f ² E	F2-M3000
00					8.4				2.6
01					8.3				2.7
02					7.8				2.8
03					6.9				2.7
04					6.3				2.7
05					6.0				2.7
06					6.5				3.0
07					7.4				3.2
08					7.5				3.0
09					7.6				2.7
10					7.9				3.8
11					8.8				2.5
12					5.6				5.8
13					11.0				2.7
14					10.8				5.8
15					10.7				4.0
16					10.9				5.5
17					11.1				2.8
18					11.4				5.5
19					18				5.3
20					19				4.7
21					20				4.6
22					21				2.6
23					22				3.5
					23				2.0

Time: 75.0°W.
Sweep: 2.0 Mc to 16.0 Mc in one minute.

Time: 135.0°E.

Table 17 (Provisional data)

Guam I. (13.5°N, 144.8°E)							July 1946																																		
Time	h ¹ F2	f ⁰ F2	h ¹ F1	f ⁰ F1	h ¹ E	f ⁰ E	f ⁰ S	Time	h ¹ F2	f ⁰ F2	h ¹ F1	f ⁰ F1	h ¹ E	f ⁰ E	f ⁰ S	Time	h ¹ F2	f ⁰ F2	h ¹ F1	f ⁰ F1	h ¹ E	f ⁰ E	f ⁰ S	Time	h ¹ F2	f ⁰ F2	h ¹ F1	f ⁰ F1	h ¹ E	f ⁰ E	f ⁰ S	Time	h ¹ F2	f ⁰ F2	h ¹ F1	f ⁰ F1	h ¹ E	f ⁰ E	f ⁰ S		
00	300	9.0			3.4	2.9		00			9.0					00			9.0					2.6	2.7						00			9.0					2.6	2.7	
01	280	7.8			3.8	2.9		01			7.7					01			7.7					1.6	1.6						01			7.7					1.6	2.9	
02	290	7.2			3.0	2.8		02			7.1					02			6.6					1.6	1.6						02			6.6					1.6	2.9	
03	290	6.6			3.6	2.9		03			6.1					03			6.1					1.6	1.6						03			6.1					1.6	3.0	
04	280	6.4			2.2	2.9		04			6.1					04			5.8					1.6	1.6						04			5.8					1.6	3.0	
05	250	5.6			3.6	3.2		05			5.2					05			5.2					1.6	1.6						05			5.2					1.6	3.1	
06	270	5.5			2.8	3.1		06			5.1					06			5.1					1.6	1.6						06			5.1					1.6	3.1	
07	240	8.0			5.2	3.1		07			7.1					07			7.1					2.3	2.3						07			7.1					2.3	2.3	
08	250	8.7	220		6.5	3.0		08			6.8					08			6.8					3.0	3.0						08			6.8					3.0	3.0	
09	290	8.9	210	5.0	6.5	2.7		09			9.3					09			9.3					3.5	3.5						09			9.3					3.5	3.5	
10	330	9.7	210	5.4	6.0	2.5		10			10.1					10			10.1					3.9	3.9						10			10.1					3.9	3.9	
11	380	10.2	200	5.7	6.1	2.4		11			11					11			10.3					4.2	4.2						11			10.3					4.2	4.2	
12	400	10.8	200	5.6	4.2	6.0		12			12					12			10.4					4.3	4.3						12			10.4					4.3	4.3	
13	400	11.0	200	5.6	5.9	2.4		13			13					13			10.2					4.2	4.2						13			10.2					4.2	4.2	
14	400	11.5	200	5.6	6.2	2.4		14			14					14			10.2					4.2	4.2						14			10.2					4.2	4.2	
15	390	11.8	220	5.5	6.6	2.4		15			15					15			10.1					5.6	5.6						15			10.1					5.6	5.6	
16	340	12.2	220	5.2	7.0	2.5		16			16					16			10.6					7.4	7.4						16			10.6					7.4	7.4	
17	310	12.6	230	4.8	6.2	2.6		17			17					17			10.5					7.1	7.1						17			10.5					7.1	7.1	
18	260	12.1	280	11.8	6.8	2.6		18			18					18			10.3					5.9	5.9						18			10.3					5.9	5.9	
19	280	11.6	200	10.6	5.2	2.5		19			19					19			10.2					4.8	4.8						19			10.2					4.8	4.8	
20	350	10.6	360	10.2	3.6	2.5		20			20					20			9.4					2.2	2.2						20			9.4					2.2	2.2	
21	360	9.5	330	9.5	3.4	2.6		21			21					21			8.9					1.6	1.6						21			8.9					1.6	1.6	
22	330	9.6	320	9.6	4.0	2.8		22			22					22			9.0					2.7	2.7						22			9.0					2.7	2.7	
23								23			23					23			8.9													23			8.9						

Time: 150.00E.
Sweep: Manual operation.

Table 17 (Provisional data)

Guam I. (13.5°N, 144.8°E)							July 1946																																	
Time	h ¹ F2	f ⁰ F2	h ¹ F1	f ⁰ F1	h ¹ E	f ⁰ E	f ⁰ S	Time	h ¹ F2	f ⁰ F2	h ¹ F1	f ⁰ F1	h ¹ E	f ⁰ E	f ⁰ S	Time	h ¹ F2	f ⁰ F2	h ¹ F1	f ⁰ F1	h ¹ E	f ⁰ E	f ⁰ S	Time	h ¹ F2	f ⁰ F2	h ¹ F1	f ⁰ F1	h ¹ E	f ⁰ E	f ⁰ S									
00	2.7		2.8		3.0			00			3.0					00			0.0					3.1	3.1						00			0.0					3.1	3.1
01			2.9		3.1			01			3.0					01			2.9					3.2	3.2						01			2.9					3.2	3.2
02			2.9		3.1			02			3.1					02			2.8					3.2	3.2						02			2.8					3.2	3.2
03			3.0		3.1			03			3.1					03			2.7					3.3	3.3						03			2.7					3.3	3.3
04			2.6		3.1			04			3.1					04			2.7					3.4	3.4						04			2.7					3.4	3.4
05			2.6		3.1			05			3.1					05			2.6					3.4	3.4						05			2.6					3.4	3.4
06			2.6		3.1			06			3.1					06			2.5					3.4	3.4						06			2.5					3.4	3.4
07			5.7		3.7			07			3.7					07			3.3					3.6	3.6						07			3.3					3.6	3.6
08			8.1		3.4			08			3.4					08			5.9					7.4	7.4						08			5.9					7.4	7.4
09			9.0		3.4			09			3.4					09			7.4					8.1	8.1						09			7.4					8.1	8.1
10			9.7		3.3			10			3.3					10			8.1					8.3	8.3						10			8.3					8.3	8.3
11			9.5		3.3			11			3.3					11			7.5					7.5	7.5						11			7.5					7.5	7.5
12			9.5		3.2			12			3.2					12			9.5					6.4	6.4						12			9.5					6.4	6.4
13			9.5		3.1			13			3.1					13			9.5					5.3	5.3						13			5.3					5.3	5.3
14			9.5		3.1			14			3.1					14			9.5					4.5	4.5						14			9.5					4.5	4.5
15			9.5		3.1			15			3.1					15			8.8					3.2	3.2						15			8.8					3.2	3.2
16			9.5		3.1			16			3.1					16			8.8					3.4	3.4						16			8.8					3.4	3.4
17			8.9		3.2			17			3.2					17			8.8					3.3	3.3						17			8.8					3.3	3.3
18			6.5		3.4</td																																			

Table 21

Washington, D.C. (39.0°N, 77.5°W) August 1946

Table 22 (Supersedes Table 2, CRPL-124)

Time: 75.00%
Sweep: 0.75 Mc to 11.5 Mc in 3.4 minutes.

Table 23 (Supersedes Table 3 - EPL-F2/1)

Time: 90.00%.
Sweat: 2.0 Ml to 16.0 Ml in one minute

Table 22 (Supersedes Table 2, CRPL-F2a)
Fairbanks, Alaska (64°9'N, 147°8'W) July 1946

Time	h1E2	f1E2	h1F1	f1F1	h1E	f1E	h1F	f1F	TES	F2-N3000
	00	300	4.5	4.4	1.8	3.5	2.7	2.7	5.5	2.7
01	312	4.8	4.8	4.8	2.1	4.2	2.6	2.6	5.0	2.6
02	330	5.0	5.0	5.0	2.4	5.0	2.6	2.6	5.1	2.6
03	385	4.8	4.8	4.8	2.6	5.1	2.6	2.6	3.6	2.6
04	425	5.0	298	3.6	3.0	3.6	3.0	3.0	3.6	3.0
05	415	5.4	5.2	5.2	4.1	3.2	3.2	3.2	3.6	3.2
06	460	5.2	245	4.1	4.0	3.6	3.6	3.6	3.6	3.6
07	470	5.2	235	4.0	3.3	3.2	3.2	3.2	3.5	3.2
08	460	5.4	230	4.4	3.5	3.3	3.3	3.3	3.5	3.2
09	525	5.5	220	4.5	3.5	3.3	3.3	3.3	3.5	3.2
10	495	5.5	226	4.6	3.4	3.5	3.5	3.5	3.5	3.2
11	530	5.5	220	4.6	3.5	3.5	3.5	3.5	3.5	3.2
12	515	5.6	225	4.7	3.5	3.2	3.2	3.2	3.2	3.2
13	500	5.5	225	4.7	3.3	3.2	3.2	3.2	3.2	3.2
14	510	5.5	230	4.7	3.7	3.3	3.3	3.3	3.3	3.2
15	450	5.6	225	4.6	3.3	3.2	3.2	3.2	3.2	3.2
16	445	5.7	230	4.5	3.2	3.1	3.1	3.1	3.2	3.1
17	400	5.6	230	4.3	3.0	3.0	3.0	3.0	3.0	3.0
18	320	5.6	250	3.9	2.8	2.8	2.8	2.8	2.8	2.8
19	270	5.6	280	3.8	2.5	2.5	2.5	2.5	2.5	2.5
20	280	5.5	288	3.8	2.1	2.1	2.1	2.1	2.1	2.1
21	288	5.2	272	3.8	1.9	1.9	1.9	1.9	1.9	1.9
22	272	5.0	285	3.8	1.6	1.6	1.6	1.6	1.6	1.6
23	285	5.0	272	3.8	1.6	1.6	1.6	1.6	1.6	1.6

Time: 150.099.
Speed: 16.0 Km to 0.5 Km in fifteen minutes.

Tabelle 2/ (Sinnverstehen nach Schäfer / 1991-1994)

Time	h ¹ R2	10 ² R2	h ¹ R1	10 ² R1	h ¹ E	10 ² E	TOE	T ₂₈	F ₂₈	F ₂₋₁₄₃₀₀₀
00	245	4.2						3.0	3.0	3.0
01	260	3.5						3.0	3.0	3.0
02	270	3.2						3.0	3.0	3.0
03	270	3.2						3.0	3.0	3.0
04	270	3.2						3.0	3.0	3.0
05	230	4.1	240		3.2	105	1.8	2.6	2.6	2.8
06	280	4.8	210	2.0	2.7	90	2.3	2.6	2.6	2.8
07	390	5.2	200	4.0	4.0	90	2.9	3.7	3.7	2.8
08	415	5.2	190	4.2	4.2	80	2.9	3.9	3.9	2.7
09	430	5.5	180	4.4	4.4	80	3.2	3.7	3.7	2.7
10	470	5.6	170	4.6	4.6	80	3.4	3.9	3.9	2.6
11	410	5.8	170	4.8	4.8	80	3.5	3.8	3.8	2.8
12	420	5.8	180	4.8	4.8	80	3.6	3.9	3.9	2.8
13	420	5.7	180	4.9	4.9	80	3.6	3.9	3.9	2.7
14	430	5.7	180	4.9	4.9	80	3.5	3.8	3.8	2.7
15	410	5.8	180	4.9	4.9	80	3.5	3.8	3.8	2.8
16	400	5.8	180	4.7	4.7	80	3.4	4.0	4.0	2.8
17	370	5.8	190	4.6	4.6	80	3.2	3.5	3.5	2.9
18	320	5.8	190	4.6	4.6	80	3.4	3.9	3.9	3.0
19	280	6.0	200	4.0	4.0	90	2.6	3.0	3.0	2.9
20	240	5.9					2.9	3.0	3.0	2.9
21	220	5.7					2.4	2.1	2.1	2.4
22								1.7	1.7	1.7
23								2.4	2.4	2.4

Time: 120.04. Sweep: Manual operation.

July 1976

Time	h _{1/2}	f _{1/2}	h _{1/1}	f _{1/1}	h _{1/2}	f _{1/2}	TEB	TEB	F2-N3000
00	300	4.5					1.8	3.5	2.7
01	312	4.4						5.5	2.7
02	330	4.8						5.0	2.6
03	385	4.8	425	5.0	298	3.6	2.1	4.2	2.6
04			415	5.4	452	3.9	2.4	5.0	2.6
05			460	5.2	245	4.1	2.6	5.1	2.6
06			470	5.2	235	4.0	3.6	3.6	2.6
07			460	5.4	230	4.4	3.2	3.5	2.5
08			525	5.5	220	4.5	3.3	3.5	2.5
09			495	5.5	226	4.6	3.4	3.5	2.5
10			530	5.5	220	4.6	3.5	3.5	2.4
11			530	5.6	225	4.7	3.5	3.2	2.4
12			500	5.5	225	4.7	3.3	3.2	2.5
13			510	5.5	230	4.7	3.3	3.2	2.5
14			450	5.6	225	4.6	3.3	3.2	2.5
15			445	5.7	230	4.5	3.2	3.1	2.6
16			400	5.6	230	4.3	3.0	3.0	2.6
17			320	5.6	250	3.9	2.8	3.0	2.7
18			270	5.6	280	3.8	2.5	3.2	2.8
19			288	5.2			2.1	3.2	2.8
20							1.9	3.2	2.8
21							1.6	3.2	2.9
22							1.2	3.0	2.8
23							1.1	3.0	2.9

Price : 160.00/-

July 1974

Time	h ¹ R2	10 ² R2	h ¹ R1	10 ² R1	h ¹ E	10 ² E	TOE	T ₂₈	F ₂₈	F ₂₋₁₄₃₀₀₀
00	245	4.2						3.0	3.0	3.0
01	260	3.5						3.0	3.0	3.0
02	270	3.2						3.0	3.0	3.0
03	270	3.2						3.0	3.0	3.0
04	270	3.2						3.0	3.0	3.0
05	230	4.1	240		3.2	105	1.8	2.6	2.6	2.8
06	280	4.8	210	2.0	2.7	90	2.3	2.6	2.6	2.8
07	290	5.2	200	4.0	4.0	90	2.9	3.7	3.7	2.8
08	415	5.2	190	4.2	80	2.9	3.9	2.7	2.7	2.7
09	430	5.5	180	4.4	80	3.2	3.7	2.7	2.7	2.7
10	470	5.6	170	4.6	80	3.4	3.9	2.6	2.6	2.6
11	410	5.8	170	4.8	80	3.5	3.8	2.8	2.8	2.8
12	420	5.8	180	4.8	80	3.6	3.9	2.8	2.8	2.8
13	420	5.7	180	4.9	80	3.6	3.9	2.7	2.7	2.7
14	430	5.7	180	4.9	80	3.8	3.5	2.7	2.7	2.7
15	410	5.8	180	4.9	80	3.5	3.8	2.8	2.8	2.8
16	400	5.8	180	4.7	80	3.4	4.0	2.8	2.8	2.8
17	370	5.8	190	4.6	80	3.2	3.5	2.9	2.9	2.9
18	320	5.8	190	4.3	80	3.4	3.9	3.0	3.0	3.0
19	280	6.0	200	4.0	90	2.9	3.0	2.9	2.9	2.9
20	240	5.9						2.9	2.9	2.9
21	220	5.7						2.1	2.1	2.1
22								1.7	1.7	1.7
23								3.4	3.4	3.4
								3.1	3.1	3.1
								2.9	2.9	2.9
								2.1	2.1	2.1
								2.0	2.0	2.0
								1.9	1.9	1.9
								2.1	2.1	2.1

Time: 120.0%
Sweep: Manual operation.

Table 25

The Pas, Manitoba (54.0°N, 101.0°W)								July 1946							
Time	h ¹ F2	f ² F2	h ¹ H	f ² H	h ¹ E	f ² E	ES	F2-M3000	Time	h ¹ F2	f ² F2	h ¹ H	f ² H	ES	F2-M3000
00	300	4.3					5.9	(2.6)	00	280	5.5				2.7
01	230	2.6					5.0	(2.5)	01						
02	355	4.1					5.2	(2.4)	02						
03	350	4.6					4.4	(2.4)	03						
04	330	4.4					4.0	(2.5)	04						
05	350	4.2					4.0	(2.5)	05						
06	380	4.8	260	3.7			3.0	(2.3)	06	420	5.8	250	4.3	4.5	2.6
07	420	4.8	235	4.0	110	2.9	2.5		07	370	(6.5)	250	4.3	2.8	2.5
08	450	5.0	215	4.3	100	2.4	3.2		08	(415)	6.1	225	4.5	3.0	2.7
09	490	5.2	210	4.4	100	3.0	2.3		09	(412)	(6.3)	210	4.9	2.9	2.5
10	500	5.2	200	4.6	100	3.0	2.4		10	410	6.5	210	5.0	3.2	2.7
11	520	5.3	200	4.6	100	3.5	2.3		11	385	(5.6)			(5.0)	2.9
12	470	5.5	205	4.7	100	3.4	2.3		12	390	6.6	195	5.1	3.3	2.7
13	475	5.4	215	4.8	100	3.5	2.4		13	425	6.4	200	5.0	3.2	2.7
14	485	5.8	210	4.8	100	3.4	2.3		14	405	6.1	200	5.0	4.1	2.7
15	430	5.7	200	4.6	100	3.4	2.3		15	438	(5.9)	208	4.9	3.2	2.8
16	430	5.6	210	4.6	100	3.4	2.4		16	372	6.0	230	4.8	5.9	2.9
17	390	5.0	215	4.6	110	3.2	2.5		17	340	(5.8)			(4.1)	3.0
18	360	5.6	215	4.3	100	2.9	2.5		18	290	6.1			4.5	2.0
19	315	6.0	240	4.0	110	2.6	2.6		19	278	6.4			4.4	2.0
20	260	6.0	120	4.0	120	2.6	2.6		20	262	6.4			5.0	2.0
21	250	5.5	115	2.0	2.0	2.4	2.6		21	270	6.8			4.0	2.8
22	270	4.8	110	2.6	2.5	2.7	2.7		22	268	6.4			2.6	2.8
23	275	4.8	110	2.6	2.8	2.7	2.7		23	290	6.0			2.3	2.7

Time: 90.0°W.
Sweep: 1.2 Mc to 16.0 Mc in approximately two minutes.

Table 26

Adak, Alaska (51.9°N, 176.6°W)								July 1946							
Time	h ¹ F2	f ² F2	h ¹ H	f ² H	h ¹ E	f ² E	ES	F2-M3000	Time	h ¹ F2	f ² F2	h ¹ H	f ² H	ES	F2-M3000
00	280	5.5					5.9	(2.6)	00	280	5.5				2.7
01	230	2.6					5.0	(2.5)	01						
02	355	4.1					5.2	(2.4)	02						
03	350	4.6					4.4	(2.4)	03						
04	330	4.4					4.0	(2.5)	04						
05	350	4.2					4.0	(2.5)	05						
06	380	4.8	260	3.7	110	2.9	2.3		06	270	4.6	230	4.0	120	2.9
07	420	4.8	235	4.0	100	3.5	2.4		07	305	4.8	220	4.2	3.0	2.9
08	450	5.0	215	4.3	100	3.4	2.3		08	375	5.0	210	4.6	110	2.7
09	490	5.2	210	4.4	100	3.3	2.3		09	400	5.9	210	4.9	110	3.0
10	500	5.2	200	4.6	100	3.3	2.4		10	420	6.0	200	5.0	110	2.7
11	520	5.3	200	4.6	100	3.5	2.4		11	420	6.1	200	5.1	110	2.7
12	470	5.5	205	4.3	100	3.6	2.5		12	495	5.8	200	5.2	110	2.7
13	475	5.4	215	4.3	100	3.5	2.5		13	470	6.0	205	5.1	110	2.5
14	485	5.8	210	4.8	100	3.4	2.3		14	420	6.4	210	5.0	110	2.6
15	430	5.7	200	4.6	100	3.2	2.3		15	400	6.3	210	5.0	110	2.6
16	430	5.6	190	4.7	90	3.2	2.3		16	370	6.2	210	4.9	110	3.4
17	390	5.0	190	4.9	90	3.5	2.7		17	360	6.5	220	4.7	120	3.2
18	360	5.2	190	5.0	90	3.6	3.0		18	310	6.9	230	4.3	120	2.7
19	315	6.1	190	5.1	90	3.6	3.0		19	260	7.1	265	3.7	120	2.8
20	260	7.0	210	3.6	100	2.4	2.7		20	260	7.1	265	3.7	120	2.8
21	240	6.8	190	5.0	90	3.1	2.7		21	270	6.9	22	6.4	2.8	2.8
22	250	6.6	210	4.2	100	2.7	2.7		22	270	6.4	295	5.0	2.8	2.8
23	255	6.6	210	4.2	100	2.7	2.7		23	295	5.0				

Time: 90.0°W.
Sweep: 1.2 Mc to 16.0 Mc in approximately two minutes.

Table 26 (Supersedes Table 5, CRPL-F24)

Adak, Alaska (51.9°N, 176.6°W)								July 1946							
Time	h ¹ F2	f ² F2	h ¹ H	f ² H	h ¹ E	f ² E	ES	F2-M3000	Time	h ¹ F2	f ² F2	h ¹ H	f ² H	ES	F2-M3000
00	280	5.5					5.9	(2.6)	00	300	5.0				2.9
01	230	2.6					5.0	(2.5)	01	300	4.7				
02	355	4.1					5.2	(2.4)	02	320	3.9				
03	350	4.6					4.4	(2.4)	03	310	3.6				
04	330	4.4					4.0	(2.5)	04	320	3.3				
05	350	4.2					4.0	(2.5)	05	270	3.8				
06	380	4.8	220	3.9	95	95	2.0		06	270	4.6	230	4.0	120	2.9
07	420	4.8	200	4.0	100	3.8	3.2		07	305	4.8	220	4.2	3.0	2.9
08	450	5.0	200	4.6	90	3.0	3.0		08	375	5.0	210	4.6	110	2.7
09	490	5.2	190	4.7	90	3.2	2.9		09	400	5.9	210	4.9	110	3.0
10	500	5.2	190	4.9	90	3.5	3.0		10	420	6.0	200	5.0	110	2.7
11	520	5.3	190	5.0	90	3.6	3.0		11	420	6.1	200	5.1	110	2.7
12	470	5.5	180	5.1	90	3.6	3.0		12	495	5.8	205	5.1	110	2.7
13	475	5.4	190	5.1	90	3.6	3.0		13	470	6.0	205	5.1	110	2.6
14	485	5.8	190	5.0	90	3.6	3.0		14	420	6.4	210	5.0	110	2.6
15	430	5.7	190	5.0	90	3.5	3.0		15	400	6.3	210	5.0	110	2.6
16	430	5.6	190	4.8	90	3.2	3.4		16	370	6.2	210	4.9	110	3.4
17	390	5.0	200	4.6	90	3.0	3.1		17	360	6.5	220	4.7	120	3.2
18	360	5.2	210	4.2	100	2.7	2.7		18	310	6.9	230	4.3	120	2.7
19	315	6.1	210	3.6	100	2.4	2.7		19	260	7.1	265	3.7	120	2.8
20	260	7.0	210	3.6	100	2.4	2.7		20	260	7.1	265	3.7	120	2.8
21	240	6.8	190	5.0	90	3.1	2.7		21	270	6.9	22	6.4	2.8	2.8
22	250	6.6	210	4.2	100	2.7	2.7		22	270	6.4	295	5.0	2.8	2.8
23	255	6.6	210	4.2	100	2.7	2.7		23	295	5.0				

Ottawa, Canada (45.5°N, 75.8°W)								July 1946							
Time	h ¹ F2	f ² F2	h ¹ H	f ² H	h ¹ E	f ² E	ES	F2-M3000	Time	h ¹ F2	f ² F2	h ¹ H	f ² H	ES	F2-M3000
00	260	5.9					3.0		00	300	5.0				2.9
01	260	5.9					3.0		01	300	4.7				
02	240	5.3					3.4		02	320	3.9				

Table 29 (Supersedes Table 8, CRPL-F2A)

Boston, Massachusetts (42.4°N, 71.2°W)

July 1946

Time	hF2	f0F2	hF1	f0F1	hE	f0E	fE	F2-M3000
00	300	6.1			2.7			
01	300	5.4			2.6			
02	300	4.9			2.7			
03	295	4.6			2.7			
04	290	4.6			2.7			
05	275	4.3			2.8			
06	300	4.6			2.8			
07	300	5.1			2.8			
08	250	5.6	125	1.9	2.8			
09	300	5.6	140	2.7	2.8			
10	250	6.0	255	4.5	2.8			
11	250	6.5	250	4.7	2.8			
12	(4.90)	(6.5)	245	4.8	2.8			
13	(4.00)	(6.6)			2.5			
14	(4.20)	(6.7)			2.7			
15	(4.90)	(6.7)			2.6			
16	400	6.8	260	4.9	2.6			
17	400	6.5	275	4.7	2.6			
18	350	6.8	350	4.9	2.7			
19	318	6.6			2.7			
20	300	6.7			2.7			
21	280	6.6			2.7			
22	292	6.7			2.7			
23	295	6.5			2.6			

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 21

Time	hF2	f0F2	hF1	f0F1	hE	f0E	fE	F2-M3000
00	275	7.5			4.0	2.9		
01	260	7.4			3.4	3.0		
02	250	7.2			3.8	3.0		
03	260	6.4			3.2	3.0		
04	270	6.2			3.0	3.0		
05	250	6.4	240	1.8	2.8	3.0		
06	240	7.6	210	105	2.5	3.1		
07	270	7.6	210	4.6	3.0	5.1		
08	260	7.8	200	5.0	100	3.4	5.2	
09	300	7.7	190	5.3	100	3.6	5.1	
10	300	7.9	200	5.2	100	3.8	5.2	
11	320	8.2	200	5.6	100	3.8	5.2	
12	320	8.5	250	5.4	100	5.4	6.4	
13	310	8.8	220	5.4	100	3.9	7.9	
14	310	8.8	215	5.4	100	3.7	5.6	
15	300	8.5	220	5.2	100	3.8	5.6	
16	300	8.1	210	4.9	100	3.5	5.1	
17	270	8.1	210	4.6	100	3.1	5.4	
18	260	8.2	210	3.8	100	2.5	5.2	
19	230	7.6	235					
20	240	7.6						
21	280	7.7						
22	270	7.6						
23	270	7.5						

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 22

Time	hF2	f0F2	hF1	f0F1	hE	f0E	fE	F2-M3000
00	275	7.5			4.0	2.9		
01	260	7.4			3.4	3.0		
02	250	7.2			3.8	3.0		
03	260	6.4			3.2	3.0		
04	270	6.2			3.0	3.0		
05	250	6.4	240	1.8	2.8	3.0		
06	240	7.6	210	105	2.5	3.1		
07	270	7.6	210	4.6	3.0	5.1		
08	260	7.8	200	5.0	100	3.4	5.2	
09	300	7.7	190	5.3	100	3.6	5.1	
10	300	7.9	200	5.2	100	3.8	5.2	
11	320	8.2	200	5.6	100	3.8	5.2	
12	320	8.5	250	5.4	100	5.4	6.4	
13	310	8.8	220	5.4	100	3.9	7.9	
14	310	8.8	215	5.4	100	3.7	5.6	
15	300	8.5	220	5.2	100	3.8	5.6	
16	300	8.1	210	4.9	100	3.5	5.1	
17	270	8.1	210	4.6	100	3.1	5.4	
18	260	8.2	210	3.8	100	2.5	5.2	
19	230	7.6	235					
20	240	7.6						
21	280	7.7						
22	270	7.6						
23	270	7.5						

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 23

Time	hF2	f0F2	hF1	f0F1	hE	f0E	fE	F2-M3000
00	275	7.5			4.0	2.9		
01	260	7.4			3.4	3.0		
02	250	7.2			3.8	3.0		
03	260	6.4			3.2	3.0		
04	270	6.2			3.0	3.0		
05	250	6.4	240	1.8	2.8	3.0		
06	240	7.6	210	105	2.5	3.1		
07	270	7.6	210	4.6	3.0	5.1		
08	260	7.8	200	5.0	100	3.4	5.2	
09	300	7.7	190	5.3	100	3.6	5.1	
10	300	7.9	200	5.2	100	3.8	5.2	
11	320	8.2	200	5.6	100	3.8	5.2	
12	320	8.5	250	5.4	100	5.4	6.4	
13	310	8.8	220	5.4	100	3.9	7.9	
14	310	8.8	215	5.4	100	3.7	5.6	
15	300	8.5	220	5.2	100	3.8	5.6	
16	300	8.1	210	4.9	100	3.5	5.1	
17	270	8.1	210	4.6	100	3.1	5.4	
18	260	8.2	210	3.8	100	2.5	5.2	
19	230	7.6	235					
20	240	7.6						
21	280	7.7						
22	270	7.6						
23	270	7.5						

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 24

Time	hF2	f0F2	hF1	f0F1	hE	f0E	fE	F2-M3000
00	275	7.5			4.0	2.9		
01	260	7.4			3.4	3.0		
02	250	7.2			3.8	3.0		
03	260	6.4			3.2	3.0		
04	270	6.2			3.0	3.0		
05	250	6.4	240	1.8	2.8	3.0		
06	240	7.6	210	105	2.5	3.1		
07	270	7.6	210	4.6	3.0	5.1		
08	260	7.8	200	5.0	100	3.4	5.2	
09	300	7.7	190	5.3	100	3.6	5.1	
10	300	7.9	200	5.2	100	3.8	5.2	
11	320	8.2	200	5.6	100	3.8	5.2	
12	320	8.5	250	5.4	100	5.4	6.4	
13	310	8.8	220	5.4	100	3.9	7.9	
14	310	8.8	215	5.4	100	3.7	5.6	
15	300	8.5	220	5.2	100	3.8	5.6	
16	300	8.1	210	4.9	100	3.5	5.1	
17	270	8.1	210	4.6	100	3.1	5.4	
18	260	8.2	210	3.8	100	2.5	5.2	
19	230	7.6	235					
20	240	7.6						
21	280	7.7						
22	270	7.6						
23	270	7.5						

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 25

Time	hF2	f0F2	hF1	f0F1	hE	f0E	fE	F2-M3000
00	275	7.5			4.0	2.9		
01	260	7.4			3.4	3.0		
02	250	7.2			3.8	3.0		
03	260	6.4			3.2	3.0		
04	270	6.2			3.0	3.0		
05	250	6.4	240	1.8	2.8	3.0		
06	240	7.6	210	105	2.5	3.1		
07	270	7.6	210	4.6	3.0	5.1		
08	260	7.8	200	5.0	100	3.4	5.2	
09	300	7.7	190	5.3	100	3.6	5.1	
10	300	7.9	200	5.2	100	3.8	5.2	
11	320	8.2	200	5.6	100	3.8	5.2	
12	320	8.5	250	5.4	100	5.4	6.4	
13	310	8.8	220	5.4	100	3.9	7.9	
14	310	8.8	215	5.4	100	3.7	5.6	
15	300	8.5	220	5.2	100	3.8	5.6	
16	300	8.1	210	4.9	100	3.5	5.1	
17	270	8.1	210	4.6	100	3.1	5.4	
18	260	8.2	210	3.8	100	2.5	5.2	
19	230	7.6	235					
20	240	7.6						
21	280	7.7						
22	270	7.6						
23	270	7.5						

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 26

Time	hF2	f0F2	hF1	f0F1	hE	f0E	fE	F2-M3000

<tbl_r cells="9" ix="3" maxcspan="1" maxrspan="1" usedcols="9

Table 33

Maui, Hawaii (20.8°N, 156.5°W)

July 1946

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

July 1946

Table 34

July 1946

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	f_{OE}	f_{SE}	$F_2\text{-M3000}$
00	275	8.0			2.8				
01	270	7.8			2.8				
02	270	7.1			2.8				
03	270	6.8			2.8				
04	290	5.9			2.8				
05	280	5.4			2.8				
06	260	5.4	250	2.7	2.9				
07	250	6.8			2.9				
08	250	7.0			3.0				
09	350	7.9	240	5.0	3.2				
10	400	9.0	230	5.5	2.4				
11	420	9.4	210	5.4	2.3				
12	405	9.9	220	5.5	2.4				
13	380	10.4	220	5.5	2.5				
14	360	11.0	220	5.4	2.6				
15	350	11.5	230	5.2	2.7				
16	320	11.4	230	5.1	2.8				
17	300	11.3	240	4.9	3.0				
18	255	10.3	240	4.0	3.0				
19	250	9.5			2.9				
20	265	8.9			2.7				
21	300	9.0			2.7				
22	290	9.0			2.7				
23	290	8.4			2.7				

Time: 150.0°W.
Sweep: 2.2 Mc to 16.0 Mc in one minute.

Table 35 (Supersedes Table 11, CRPL-F24)

Trinidad, British West Indies (10.6°N, 61.2°W)

July 1946

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	f_{OE}	f_{SE}	$F_2\text{-M3000}$
00	260	9.4			2.9				
01	255	9.0			2.9				
02	250	8.4			2.9				
03	260	7.8			3.0				
04	250	7.0			3.1				
05	260	6.4			3.1				
06	250	6.8			3.2				
07	260	7.2			3.1				
08	280	7.9	220	5.0	120	2.6			
09	350	8.7	220	5.3	110	3.2			
10	360	9.5	220	5.6	110	3.5			
11	370	10.8	215	5.5	120	3.8			
12	350	11.4	220	5.6	110	4.1			
13	350	11.8	220	5.5	120	4.0			
14	355	11.7	220	5.4	120	4.0			
15	335	11.8	220	5.3	110	4.0			
16	320	11.8	230	5.1	120	3.8			
17	310	11.3	225	4.7	120	3.4			
18	260	10.4	110	2.2	110	2.8			
19	270	10.0			4.4	2.8			
20	290	10.0			3.8	2.7			
21	280	10.5			2.4	2.8			
22	280	10.1			2.8	2.1			
23	270	10.0			2.9	2.1			

Time: 150.0°W.
Sweep: 2.2 Mc to 16.0 Mc in one minute.

Table 36 (Supersedes Table 11, CRPL-F24)

Huancayo, Peru (12.0°S, 75.3°W)

July 1946

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	f_{OE}	f_{SE}	$F_2\text{-M3000}$
00	220	7.0			2.9				
01	220	7.0			2.9				
02	230	6.6			2.9				
03	230	5.6			3.0				
04	240	4.8			3.1				
05	240	4.1			3.1				
06	280	4.3			3.2				
07	240	7.2			3.1				
08	230	8.7			3.4				
09	220	9.4			2.9				
10	290	9.2			2.9				
11	325	8.9			2.9				
12	345	9.0			2.9				
13	340	8.9			2.9				
14	320	8.8			2.9				
15	210	8.8			2.9				
16	230	8.8			2.9				
17	255	8.8			2.9				
18	300	8.4			2.9				
19	310	8.1			2.9				
20	300	8.0			2.9				
21	260	8.3			2.9				
22	235	7.8			2.9				
23	230	7.4			2.9				

Time: 60.0°W.
Sweep: Record centered on the hour.

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	f_{OE}	f_{SE}	$F_2\text{-M3000}$
00	220	7.0			2.9				
01	220	7.0			2.9				
02	230	6.6			2.9				
03	230	5.6			3.0				
04	240	4.8			3.1				
05	240	4.1			3.1				
06	280	4.3			3.2				
07	240	7.2			3.1				
08	230	8.7			3.4				
09	220	9.4			2.9				
10	290	9.2			2.9				
11	325	8.9			2.9				
12	345	9.0			2.9				
13	340	8.9			2.9				
14	320	8.8			2.9				
15	210	8.8			2.9				
16	230	8.8			2.9				
17	255	8.8			2.9				
18	300	8.4			2.9				
19	310	8.1			2.9				
20	300	8.0			2.9				
21	260	8.3			2.9				
22	235	7.8			2.9				
23	230	7.4			2.9				

Time: 60.0°W.
Sweep: 16.0 Mc to 0.5 Mc in fifteen minutes.Time: 60.0°W.
Sweep: Manual operation.Time: 75.0°W.
Sweep: 16.0 Mc to 0.5 Mc in fifteen minutes.

Table 37

Peiping, China (39.9°N, 116.4°E)

June 1946

Chungking, China (29.4°N, 106.8°E)

June 1946

Time h'P2 f°P2 h'P1 f°P1 h'P2 f°P2 h'P1 f°P1 h'P2 f°P2 h'P1 f°P1 h'P2 f°P2 h'P1 f°P1

Time	h'P2	f°P2	h'P1	f°P1													
00	8.9	260	8.2	240	8.3	240	7.8	240	6.9	260	6.6	240	6.3	260	6.0	240	5.8
01	8.4	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
02	8.7	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
03	8.9	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
04	8.8	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
05	9.0	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
06	8.6	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
07	9.5	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
08	9.6	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
09	10.2	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
10	10.2	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
11	10.3	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
12	10.5	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
13	10.7	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
14	10.6	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
15	10.0	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
16	10.6	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
17	10.5	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
18	10.5	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
19	9.8	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
20	10.0	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
21	8.8	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
22	8.3	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8
23	8.5	240	7.8	240	7.8	240	7.8	240	6.9	240	6.6	240	6.3	240	6.0	240	5.8

Time: 120.0°E.
Sweep:

Table 39 (Supersedes Table 18, CRPL-P24)

Time	h'P2	f°P2	h'P1	f°P1												
00	8.6	2.6	2.8	2.6	8.6	2.4	2.8	2.6	8.6	2.2	2.8	2.6	8.6	2.0	2.8	2.6
01	7.0	2.4	2.8	2.4	7.0	2.2	2.8	2.4	7.0	2.0	2.8	2.4	7.0	1.8	2.8	2.4
02	6.9	2.2	2.8	2.2	6.9	2.0	2.8	2.2	6.9	1.8	2.8	2.2	6.9	1.6	2.8	2.2
03	6.6	-	-	-	6.6	-	-	-	6.6	-	-	-	6.6	-	6.6	-
04	6.4	-	-	-	6.4	-	-	-	6.4	-	-	-	6.4	-	6.4	-
05	5.5	-	-	-	5.5	-	-	-	5.5	-	-	-	5.5	-	5.5	-
06	6.0	-	-	-	6.0	-	-	-	6.0	-	-	-	6.0	-	6.0	-
07	7.3	-	-	-	7.3	-	-	-	7.3	-	-	-	7.3	-	7.3	-
08	8.2	-	-	-	8.2	-	-	-	8.2	-	-	-	8.2	-	8.2	-
09	8.7	-	-	-	8.7	-	-	-	8.7	-	-	-	8.7	-	8.7	-
10	9.5	-	-	-	9.5	-	-	-	9.5	-	-	-	9.5	-	9.5	-
11	9.7	-	-	-	9.7	-	-	-	9.7	-	-	-	9.7	-	9.7	-
12	10.1	-	-	-	10.1	-	-	-	10.1	-	-	-	10.1	-	10.1	-
13	10.4	-	-	-	10.4	-	-	-	10.4	-	-	-	10.4	-	10.4	-
14	11.3	-	-	-	11.3	-	-	-	11.3	-	-	-	11.3	-	11.3	-
15	11.5	-	-	-	11.5	-	-	-	11.5	-	-	-	11.5	-	11.5	-
16	11.8	-	-	-	11.8	-	-	-	11.8	-	-	-	11.8	-	11.8	-
17	11.8	-	-	-	11.8	-	-	-	11.8	-	-	-	11.8	-	11.8	-
18	11.7	-	-	-	11.7	-	-	-	11.7	-	-	-	11.7	-	11.7	-
19	11.4	-	-	-	11.4	-	-	-	11.4	-	-	-	11.4	-	11.4	-
20	10.3	-	-	-	10.3	-	-	-	10.3	-	-	-	10.3	-	10.3	-
21	9.2	-	-	-	9.2	-	-	-	9.2	-	-	-	9.2	-	9.2	-
22	8.1	-	-	-	8.1	-	-	-	8.1	-	-	-	8.1	-	8.1	-
23	8.4	-	-	-	8.4	-	-	-	8.4	-	-	-	8.4	-	8.4	-

Time: 150.0°E.
Sweep: Manual operation.Time: 105.0°E.
Sweep: 2.1 Mc to 16.1 Mc in fifteen minutes.Table 39 (Supersedes Table 18, CRPL-P24)
Guam Island (13.5°N, 144.8°E) June 1946

Time	h'P2	f°P2	h'P1	f°P1												
00	8.6	2.6	2.8	2.6	8.6	2.4	2.8	2.6	8.6	2.2	2.8	2.6	8.6	2.0	2.8	2.6
01	7.0	2.4	2.8	2.4	7.0	2.2	2.8	2.4	7.0	2.0	2.8	2.4	7.0	1.8	2.8	2.4
02	6.9	2.2	2.8	2.2	6.9	2.0	2.8	2.2	6.9	1.8	2.8	2.2	6.9	1.6	2.8	2.2
03	6.6	-	-	-	6.6	-	-	-	6.6	-	-	-	6.6	-	6.6	-
04	6.4	-	-	-	6.4	-	-	-	6.4	-	-	-	6.4	-	6.4	-
05	5.5	-	-	-	5.5	-	-	-	5.5	-	-	-	5.5	-	5.5	-
06	6.0	-	-	-	6.0	-	-	-	6.0	-	-	-	6.0	-	6.0	-
07	7.3	-	-	-	7.3	-	-	-	7.3	-	-	-	7.3	-	7.3	-
08	8.2	-	-	-	8.2	-	-	-	8.2	-	-	-	8.2	-	8.2	-
09	8.7	-	-	-	8.7	-	-	-	8.7	-	-	-	8.7	-	8.7	-
10	9.5	-	-	-	9.5	-	-	-	9.5	-	-	-	9.5	-	9.5	-
11	9.7	-	-	-	9.7	-	-	-	9.7	-	-	-	9.7	-	9.7	-
12	10.1	-	-	-	10.1	-	-	-	10.1	-	-	-	10.1	-	10.1	-
13	10.4	-	-	-	10.4	-	-	-	10.4	-	-	-	10.4	-	10.4	-
14	11.3	-	-	-	11.3	-	-	-	11.3	-	-	-	11.3	-	11.3	-
15	11.5	-	-	-	11.5	-	-	-	11.5	-	-	-	11.5	-	11.5	-
16	11.8	-	-	-	11.8	-	-	-	11.8	-	-	-	11.8	-	11.8	-
17	11.8	-	-	-	11.8	-	-	-	11.8	-	-	-	11.8	-	11.8	-
18	11.7	-	-	-	11.7	-	-	-	11.7	-	-	-	11.7	-	11.7	-
19	11.4	-	-	-	11.4	-	-	-	11.4	-	-	-	11.4	-	11.4	-
20	10.3	-	-	-	10.3	-	-	-	10.3	-	-	-	10.3	-	10.3	-
21	9.2	-	-	-	9.2	-	-	-	9.2	-	-	-	9.2	-	9.2	-
22	8.1	-	-	-	8.1	-	-	-	8.1	-	-	-	8.1	-	8.1	-
23	8.4	-	-	-	8.4	-	-	-	8.4	-	-	-	8.4	-	8.4	-

Time: 135.0°E.
Sweep: Manual operation.Table 40 (Supersedes Table 19, CRPL-P24)
Leyte, Philippine Is. (11.0°N, 125.0°E) June 1946

Time	h'P2	f°P2	h'P1	f°P1												
00	8.4	2.6	2.8	2.6	8.4	2.4	2.8	2.6	8.4	2.2	2.8	2.6	8.4	2.0	2.8	2.6
01	7.6	2.4	2.8	2.4	7.6	2.2	2.8	2.4	7.6	2.0	2.8	2.4	7.6	1.8	2.8	2.4
02	6.8	2.2	2.8	2.2	6.8	2.0	2.8	2.2	6.8	1.8	2.8	2.2	6.8	1.6	2.8	2.2
03	6.3	-	-	-	6.3	-	-	-	6.3	-	-	-	6.3			

Table A1 (Supersedes Table 20, CRPL-P24.)

Brisbane, Australia (27.5° S., 152° 0' E.)

June 1946

Time	h	F2	foF2	h'F1	foF1	h'E	foE	foE	F2-H3000
00		280	4.0			3.0			
01		270	4.2			3.0			
02		280	4.1			3.0			
03		280	4.2			3.0			
04		275	4.1			3.0			
05		250	4.0			3.0			
06		265	3.8			3.2			
07		220	6.5			3.5			
08		215	7.9			2.5			
09		230	9.0	210	110	2.9	3.4		
10		240	9.3	210	105	3.3	3.4		
11		250	8.7	200	4.7	100	3.3	3.8	
12		250	8.9	200	4.8	100	3.3	3.8	
13		240	8.5	200	4.6	100	3.3	3.8	
14		260	8.8	200	4.6	4.6	3.2	3.8	
15		220	8.8		110	3.0	4.4	3.3	
16		220	8.3			2.4	3.9	3.4	
17		210	7.5						
18		220	6.3						
19		230	5.0						
20		255	4.5						
21		275	4.5						
22		275	4.2						
23		270	4.0						

Time: 150.0°E.
Sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds.Time: 150.0°E.
Sweep: 1.0 Mc to 13.0 Mc in one minute, fifty-five seconds.

Table A2

Townsville, Australia (19.4°S., 146.5°E.)

June 1946

Time	h	F2	foF2	h'F1	foF1	h'E	foE	foE	F2-H3000
00		300	4.0			2.8			
01		300	4.0			2.8			
02		300	3.9			2.7			
03		305	4.0			2.1			
04		300	4.1			2.1			
05		270	4.1			2.8			
06		260	3.6			1.8			
07		250	4.5			2.5			
08		250	6.6			2.4			
09		250	8.0			2.3			
10		260	8.5	240	4.2	110	3.0	3.1	
11		250	8.5	240	4.3	110	3.2	3.5	
12		260	8.6	245	4.3	110	3.2	4.0	
13		270	8.5	245	4.4	110	3.2	4.4	
14		280	8.6	240	4.0	110	3.0	4.0	
15		250	8.5	250	4.0	110	2.8	3.6	
16		250	8.0			120	2.4	3.1	
17		250	7.4			2.4	3.0	3.0	
18		250	6.0						
19		250	5.0						
20		260	4.4						
21		290	4.0						
22		300	3.9						
23		300	3.8						

Time: 150.0°E.
Sweep: 1.6 Mc to 12.5 Mc in two minutes.Time: 150.0°E.
Sweep: 1.0 Mc to 13.0 Mc in one minute, fifty-five seconds.

Table A3

Townsville, Australia (19.4°S., 146.5°E.)

June 1946

Time	h	F2	foF2	h'F1	foF1	h'E	foE	foE	F2-H3000
00		300	4.0			2.8			
01		300	4.0			2.8			
02		300	3.9			2.7			
03		305	4.0			2.1			
04		300	4.1			2.1			
05		270	4.1			2.8			
06		260	3.6			1.8			
07		250	4.5			2.5			
08		250	6.6			2.4			
09		250	8.0			2.3			
10		260	8.5	240	4.2	110	3.0	3.1	
11		250	8.5	240	4.3	110	3.2	3.5	
12		260	8.6	245	4.3	110	3.2	4.0	
13		270	8.5	245	4.4	110	3.2	4.4	
14		280	8.6	240	4.0	110	3.0	4.0	
15		250	8.5	250	4.0	110	2.8	3.6	
16		250	8.0			120	2.4	3.1	
17		250	7.4			2.4	3.0	3.0	
18		250	6.0						
19		250	5.0						
20		260	4.4						
21		290	4.0						
22		300	3.9						
23		300	3.8						

Time: 150.0°E.
Sweep: 1.6 Mc to 12.5 Mc in two minutes.Time: 150.0°E.
Sweep: 1.0 Mc to 13.0 Mc in one minute, fifty-five seconds.

Table A4

Hobart, Tasmania (42.8°S., 147.4°E.)

June 1946

Time	h	F2	foF2	h'F1	foF1	h'E	foE	foE	F2-H3000
00		250	4.0			2.8			
01		260	4.2			2.7			
02		240	4.3			3.0			
03		300	4.0			2.1			
04		300	4.1			2.1			
05		270	4.1			2.8			
06		260	3.6			1.8			
07		250	4.5			2.5			
08		250	6.6			2.4			
09		250	8.0			2.3			
10		260	8.5	240	4.2	110	3.0	3.1	
11		250	8.5	240	4.3	110	3.2	3.5	
12		260	8.6	245	4.3	110	3.2	4.0	
13		270	8.5	245	4.4	110	3.2	4.4	
14		280	8.6	240	4.0	110	3.0	4.0	
15		250	8.5	250	4.0	110	2.8	3.6	
16		250	8.0			120	2.4	3.1	
17		250	7.4			2.4	3.0	3.0	
18		250	6.0						
19		250	5.0						
20		260	4.4						
21		290	4.0						
22		300	3.9						
23		300	3.8						

Time: 150.0°E.
Sweep: 1.6 Mc to 12.5 Mc in two minutes.Time: 150.0°E.
Sweep: 1.0 Mc to 13.0 Mc in one minute, fifty-five seconds.Time: 150.0°E.
Sweep: 1.0 Mc to 13.0 Mc in one minute, fifty-five seconds.Time: 150.0°E.
Sweep: 1.6 Mc to 12.5 Mc in two minutes.

Table 45

Tromsø, Norway (69.7°N, 18.9°E)

May 1946

Name	$\lambda^{*}F2$	F^*F2	$b^{*}F1$	$f^{*}F1$	$b^{*}E$	$f^{*}E$	$f^{*}S$	$F2-M3000$
00	362	(5.3)						
01	320	(5.7)						
02	320	(5.5)						
03	320	5.5						
04	327	(5.5)						
05	320	5.7						
06	355	5.9						
07	350	5.8						
08	324	6.0						
09	360	6.0						
10	260	6.0						
11	340	6.1						
12	355	6.1						
13	280	6.0						
14	350	5.9						
15	327	5.9						
16	324	6.0						
17	300	5.9						
18	310	5.7						
19	319	5.5						
20	340	5.3						
21	340	5.6						
22	350	5.2						
23	350	5.3						

time: 0.00E.
between: 0.8 Mcallen / Mc in five minutes

Table 47

Time	$h^{\circ}R2$	$g^{\circ}R2$	$h^{\circ}Pl$	$g^{\circ}Pl$	$h^{\circ}E$	$g^{\circ}E$	fOE	278	$F2-H3000$
00	8.8	8.8	8.0	8.0	7.4	7.1	7.0	3.5	(2.7)
01	8.0	8.0	8.0	8.0	7.4	7.1	7.0	3.4	2.8
02	8.0	8.0	8.0	8.0	7.4	7.1	7.0	3.4	2.8
03	8.0	8.0	8.0	8.0	7.4	7.1	7.0	3.0	(2.9)
04	8.0	8.0	8.0	8.0	7.4	7.1	7.0	3.0	2.9
05	8.0	8.0	8.0	8.0	7.4	7.1	7.0	3.4	3.1
06	8.0	8.0	8.0	8.0	7.4	7.1	7.0	4.5	3.0
07	8.8	8.8	8.8	8.8	8.8	8.8	8.8	5.4	3.0
08	8.6	8.6	8.6	8.6	8.6	8.6	8.6	6.6	2.7
09	9.0	9.0	9.3	9.3	9.6	9.6	9.6	5.6	2.7
10	9.0	9.0	9.6	9.6	10.5	11.1	11.1	5.6	3.0
11	10.5	10.5	11.1	11.1	11.3	11.3	11.3	6.2	3.0
12	11.0	11.0	11.3	11.3	11.6	11.6	11.6	6.2	2.8
13	11.6	11.6	11.6	11.6	11.9	11.9	11.9	5.0	2.8
14	11.9	11.9	11.9	11.9	12.2	12.2	12.2	4.5	2.9
15	12.2	12.2	12.2	12.2	12.6	12.6	12.6	4.8	2.8
16	12.6	12.6	12.6	12.6	13.4	13.4	13.4	4.8	3.0
17	12.6	12.6	12.6	12.6	13.4	13.4	13.4	4.8	3.0
18	13.4	13.4	13.4	13.4	14.4	14.4	14.4	5.0	3.0
19	13.4	13.4	13.4	13.4	14.4	14.4	14.4	5.6	2.8
20	14.0	14.0	14.0	14.0	15.0	15.0	15.0	6.0	2.8
21	14.0	14.0	14.0	14.0	15.0	15.0	15.0	6.0	2.8
22	14.0	14.0	14.0	14.0	15.0	15.0	15.0	6.0	2.8
23	14.0	14.0	14.0	14.0	15.0	15.0	15.0	6.0	2.8

Time: 30.00E.

Table 16

Batchelor 26 (2008) 116–180

BOSTONIANA 26 NOVEMBER 1985

Time: 120.00E.

Time	H _{IP2}	F _{IP2}	H _{IF1}	F _{IF1}	H _E	F _E	Rate	F2-15000
00	9.1 (9.2)				5.0		(2.8) (2.9)	
01	2.8				5.9		(3.1)	
02	7.6				5.2		2.9	
03	6.8				4.2		2.8	
04	6.5				4.0		2.9	
05	6.8				4.0		3.1	
06	7.8				4.0		3.1	
07	8.2				4.0		3.2	
08	8.5				3.7		3.1	
09	8.7				3.4		2.9	
10	10.5				5.0		2.7	
11	12.0				5.6		2.7	
12	12.8				5.7		2.7	
13	13.0				5.5		2.8	
14	13.0				5.4		2.8	
15	13.2				5.2		2.9	
16	13.2				5.0		2.8	
17	13.2				4.6		2.9	
18	12.6				3.0		3.0	
19	11.5				3.0		2.5	
20					4.9		4.9	
21					9.9		6.9	
					9.0		6.0	
					8.9		6.1	

Time: 135.00E

22

22

Time: 120.00E.

Time	H _{IP2}	F _{IP2}	H _{IF1}	F _{IF1}	H _E	F _E	Rate	F2-15000
00	9.1 (9.2)				5.0		(2.8) (2.9)	
01	2.8				5.9		(3.1)	
02	7.6				5.2		2.9	
03	6.8				4.2		2.8	
04	6.5				4.0		2.9	
05	6.8				4.0		3.1	
06	7.8				4.0		3.1	
07	8.2				4.0		3.2	
08	8.5				3.7		3.1	
09	8.7				3.4		2.9	
10	10.5				5.0		2.7	
11	12.0				5.6		2.7	
12	12.8				5.7		2.7	
13	13.0				5.5		2.8	
14	13.0				5.4		2.8	
15	13.2				5.2		2.9	
16	13.2				5.0		2.8	
17	13.2				4.6		2.9	
18	12.6				3.0		3.0	
19	11.5				3.0		2.5	
20	9.9				4.9		4.9	
21	9.0				6.0		6.0	
	8.9							2.6

Time: 135.00

Table 59

Figure 1. (13.5°N, 144.2°E)

May 1976

Time: 150.00

Table 5] (continued)

Time: 0.00

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Table 52 (Supersedes Table 22, CRPL-FP23)

Time: 30.00.

Slough, England (51.5°N, 0.6°W)

April 1946

Colombo, Ceylon (6.6°N, 80.0°E)

April 1946

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	f_{TE}	F_{TE}	$F_2 - M3000$
00	5.5	5.5			0.8				
01	5.4		1.2						
02	4.9		0.5						
03	4.5		0.5						
04	4.2		1.0						
05	4.1								
06	5.3								
07	5.8								
08	6.4								
09	7.2								
10	7.8								
11	8.1								
12	8.4								
13	8.6								
14	8.5								
15	8.6								
16	8.4								
17	8.3								
18	8.5								
19	8.2								
20	7.4								
21	6.9								
22	6.2								
23	5.9								

Time: 0.0°
 Sweep: 6.5 Mc to 16.0 Mc in four minutes.

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	f_{TE}	F_{TE}	$F_2 - M3000$
00	(298)				4.2				
01					4.5				
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									

Time: Local.
 Sweep: 2.0 Mc to 16.0 Mc in one minute.
 Data sheet labeled "Extent of E".

Table 52

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	f_{TE}	F_{TE}	$F_2 - M3000$
00	(298)				4.2				
01					4.5				
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									

Time: 0.0°
 Sweep: 0.8 Mc to 11.4 Mc in five minutes.
 No observations recorded from the thirteenth through the twenty-seventh day of the month.

Table 53 (Supersedes Table 23, CRFL-F23)

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	f_{TE}	F_{TE}	$F_2 - M3000$
00	(11.0)				9.7				
01					9.1				
02					8.2				
03					6.8				
04					6.3				
05					5.3				
06					5.2				
07					5.0				
08					4.8				
09					4.6				
10					4.4				
11					4.2				
12					4.0				
13					3.8				
14					3.6				
15					3.4				
16					3.2				
17					3.0				
18					2.8				
19					2.6				
20					2.4				
21					2.2				
22					2.0				
23					1.8				

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	f_{TE}	F_{TE}	$F_2 - M3000$
00	(11.0)				9.7				
01					9.1				
02					8.2				
03					6.8				
04					6.3				
05					5.3				
06					5.2				
07					5.0				
08					4.8				
09					4.6				
10					4.4				
11					4.2				
12					4.0				
13					3.8				
14					3.6				
15					3.4				
16					3.2				
17					3.0				
18					2.8				
19					2.6				
20					2.4				
21					2.2				
22					2.0				
23					1.8				

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	f_{TE}	F_{TE}	$F_2 - M3000$
00	(11.0)				9.7				
01					9.1				
02					8.2				
03					6.8				
04					6.3				
05					5.3				
06					5.2				
07					5.0				
08					4.8				
09					4.6				
10					4.4				
11					4.2				
12					4.0				
13					3.8				
14					3.6				
15					3.4				
16					3.2				
17					3.0				
18					2.8				
19					2.6				
20					2.4				
21					2.2				
22					2.0				
23					1.8				

Time	$h^{\circ}F_2$	$f^{\circ}F_2$	$h^{\circ}F_1$	$f^{\circ}F_1$	$h^{\circ}E$	$f^{\circ}E$	f_{TE}	F_{TE}	$F_2 - M3000$
00	(11.0)				9.7				
01					9.1				
02					8.2				
03					6.8				
04					6.3				
05					5.3				
06					5.2				
07					5.0				
08					4.8				
09					4.6				
10					4.4				
11					4.2				
12					4.0				
13					3.8				
14					3.6				
15									

Table 57 (Supersedes Table 24, CRFL-F22)

Moscow (Krasnaya Pekhra), U.S.S.R. (55.5°N, 37.2°E) March 1946

Name	h ¹ F2	f ¹ F2	h ¹ F1	f ¹ F1	foE	foS	foE	foS	F2-M3000
00	3.7								
01	3.5								
02	3.2								
03	3.2								
04	2.9								
05	2.8								
06	4.2								
07	5.8								
08	7.1								
09	8.2								
10	9.2								
11	9.6								
12	10.1								
13	10.0								
14	10.0								
15	9.5								
16	9.2								
17	8.5								
18	8.2								
19	7.0								
20	5.3								
21	2.6								
22	4.3								
23	4.1								

Time: 30.0°E.
Sweep: 1.8 Mc to 10.0 Mc in ten minutes. Manual operation.

Time: 0.0°O.
Sweep: 0.5 Mc to 16.0 Mc in four minutes.
Median values except for F2-M3000, which are computed from average values.

Name	h ¹ F2	f ¹ F2	h ¹ F1	f ¹ F1	foE	foS	F2-M3000
Burghhead, Scotland (57.7°N, 3.5°E)							
00	3.4						
01	3.4						
02	3.4						
03	3.1						
04	3.0						
05	3.2						
06	3.0						
07	3.6						
08	5.2						
09	6.2						
10	7.2						
11	7.4						
12	7.6						
13	7.7						
14	7.7						
15	7.6						
16	7.4						
17	7.2						
18	6.6						
19	5.6						
20	4.4						
21	4.0						
22	3.8						
23	3.6						

Time: 0.0°O.
Sweep: 1.0 Mc to 13.0 Mc. Manual operation.

Name	h ¹ F2	f ¹ F2	h ¹ F1	f ¹ F1	foE	foS	F2-M3000
Moscow (Krasnaya Pekhra), U.S.S.R. (55.5°N, 37.2°E)							
00	2.6						
01	2.6						
02	2.6						
03	2.4						
04	2.4						
05	2.4						
06	2.6						
07	4.6						
08	6.8						
09	8.1						
10	9.0						
11	9.4						
12	8.9						
13	9.2						
14	8.8						
15	8.2						
16	7.7						
17	6.0						
18	4.6						
19	4.0						
20	3.2						
21	2.9						
22	2.7						
23	2.6						

Name	h ¹ F2	f ¹ F2	h ¹ F1	f ¹ F1	foE	foS	F2-M3000
Slough, England (51.5°N, 0.6°E)							
00	3.9						
01	3.9						
02	3.9						
03	3.8						
04	3.8						
05	3.9						
06	3.6						
07	2.7						
08	2.1						
09	1.7						
10	1.6						
11	1.6						
12	1.6						
13	1.6						
14	1.6						
15	1.6						
16	1.6						
17	1.6						
18	1.6						
19	1.6						
20	1.6						
21	1.6						
22	1.6						
23	1.6						

Name	h ¹ F2	f ¹ F2	h ¹ F1	f ¹ F1	foE	foS	F2-M3000
March 1946							
00	1.1						
01	1.0						
02	0.7						
03	0.7						
04	0.7						
05	0.7						
06	0.7						
07	0.7						
08	0.7						
09	0.7						
10	0.7						
11	0.7						
12	0.7						
13	0.7						
14	0.7						
15	0.7						
16	0.7						
17	0.7						
18	0.7						
19	0.7						
20	0.7						
21	0.7						
22	0.7						
23	0.7						

Time: 0.0°O.
Sweep: 1.8 Mc to 10.0 Mc in ten minutes. Manual operation.

Time: 0.0°O.
Sweep: 1.0 Mc to 13.0 Mc. Manual operation.

Time: 30.0°E.
Sweep: 1.8 Mc to 16.0 Mc in four minutes.

Median values except for F2-M3000, which are computed from average values.

Table 61

Slough, England (51.5°N, 0.6°W) February 1940

Table 62

Time: 0.00
Sweep: 0.5 Mc to 16.0 Mc in four minutes.
 Median values except F2-#3000, which are computed
 Average values

Time	h ¹ P2	f ⁰ P2	h ¹ F1	f ⁰ F1	h ¹ E	f ⁰ E	h ¹ B	f ⁰ B	F-M(%)
00	351	2.9					2.7		
01	359	2.9					2.7		
02	353	3.0					2.7		
03	352	2.8					2.8		
04	335	2.4					2.9		
05	324	2.3					2.9		
06	310	2.2					2.9		
07	320	2.4					2.9		
08	251	4.2					2.0		
09	241	6.1					2.0		
10	236	6.6					2.5		
11	234	7.0					2.5		
12	236	7.2					2.6		
13	243	7.1					2.6		
14	249	6.8					2.6		
15	233	6.7					2.6		
16	242	5.7					3.5		
17	275	4.8					2.4		
18	282	4.0					2.2		
19	297	3.2					2.0		
20	322	3.0					2.9		
21	356	2.8					2.8		
22	348	2.8					2.8		
	350						2.9		

Time: 0.0°
 Sweep: 0.5 Mc to 16.0 Mc in four minutes.
 Median values except for F2-W3000 values, which are

January 1946

Time: 6C.00C.
Power: 1.5 Mc to 12.0 Mc in five to thirteen minutes. Manual operation.

卷之三

Sverdlovsk. U.S.S.R. (56°7'N 61°10'E)

卷之三

Time: 6C.00C.
Power: 1.5 Mc to 12.0 Mc in five to thirteen minutes. Manual operation.

25

time: Local. Manual operation.
 *M3000, average values; other columns, median values.

Bombay, India (19.0°N, 73.0°E)

January 19/6

Time	h'P2	f'P2	h'P1	f'P1	h'E	f'E	f'G	f'G	F2-M3000
00	330	2.9							2.8
01	330	2.9							
02	360	2.6							
03	360	2.5							
04	360	2.5							
05	225	2.5							
06	245	2.8							
07	310	4.7							
08	230	6.7							
09	330	7.4							
10	310	7.6							
11	360	8.5							
12	360	9.4							
13	345	8.2							
14	360	8.5							
15	360	8.3							
16	360	7.5							
17	360	6.7							
18	330	5.5							
19	360	5.2							
20									
21	330	3.1							
22	330	3.9							
23	330	3.0							

Time: Local.
 Sweep: Manual operation.
 *M3000, average values; other columns, median values.
 **Height at 0.83 f'P2.

Table 67

Medras, India (13.0°N, 80.2°E)

January 19/6

Time	h'P2	f'P2	h'P1	f'P1	h'E	f'E	f'G	f'G	F2-M3000
00									2.9
01									
02									
03									
04									
05									
06									
07	300	5.7							
08	330	8.2							
09	360	8.9							
10	360	9.0							
11	420	8.8							
12	420	8.9							
13	420	9.0							
14	420	9.6							
15	420	9.7							
16	375	9.8							
17	360	9.8							
18	360	9.6							
19	360	9.0							
20	320	8.4							
21	300	8.0							
22	300	7.6							
23									

Time: Local.
 Sweep: Manual operation.
 *M3000, average values; other columns, median values.
 **Height at C.83 f'P2.

Table 68

Oslo, Norway (59.9°N, 11.0°E)

November 19/5

Time	h'P2	f'P2	h'P1	f'P1	h'E	f'E	f'G	f'G	F2-M3000
00									2.5
01									2.6
02									2.4
03									2.4
04									2.5
05									2.5
06									2.4
07									2.4
08									2.5
09									4.6
10									6.0
11									7.2
12									8.2
13									8.1
14									8.2
15									7.8
16									7.2
17									6.3
18									5.8
19									5.1
20									3.4
21									3.3
22									3.2
23									2.7

Time: Local.
 Sweep: Manual operation.
 *M3000, average values; other columns, median values.
 **Height at 0.83 f'P2.

Time: 15.0°E.
 Sweep: Manual operation.
 *M3000, average values; other columns, median values.
 **Height at 0.83 f'P2.

Time: Local.
 Sweep: Manual operation.
 *M3000, average values; other columns, median values.
 **Height at 0.83 f'P2.

Washington, D.C.

Ionosphere Station

TABLE 69.
IONOSPHERE DATA - I

National Bureau Of Standards
(Institution)

TIME: 75° W MERIDIAN

Hourly values of $\text{H} \cdot F_2$ in km for August 1946
(Hours)

Records measured by A.K.B.
J.L.S.

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	270	250	300	310	310	290	(310)	350	350	350	(320)	390	400	410	360	360	360	350	(290)	300	260	240	260	280		
2	[270] ^a	280	(290)	C	C	C	C	C	C	C	(4-30)	(4-30)	(5-30)	360	440	360	370	340	[320] ^c	290	250	240	250	280	(310) ^b	
3	290	280	280	240	290	(280)	(330)	350	390 ^a	380	[400] ^c	(4-50)	(4-40)	420	380	380	330	300	260	240	270	270	270	270	270	
4	280	280	290	270	260	260	240	260	270	340	340	330	360	330	350	(360)	300	310	280	270	260	250	250	280		
5	280	270	250	250	270	280	240	260	270	320	360	390	(380)	370	350	380	340	330	280	240	240	250	250	270	(280)	
6	300	280	280	270	[280] ^a	(280)	310	(290)	300	330	(390)	(400)	360	410	[420] ^c	390	390	360	330	300	250	250	260	280	310	
7	[310] ^a	310	280 ^a	280 ^a	[260] ^b	300 ^a	(310) ^a	460 ^a	440 ^a	450 ^a	480 ^a	[500] ^b	[450] ^b	480 ^a	[500] ^b	[450] ^b	450 ^a	440 ^a	380 ^a	310 ^a	270 ^a	280 ^a	280 ^a	270 ^a		
8	300 ^a	280 ^a	280 ^a	270 ^a	280 ^a	260 ^a	270	300	410	370	400	370	400	380	380	360	360	[330] ^a	(320)	240	[240] ^b	(270)	260	270		
9	[280] ^a	(290)	270	300	(300)	(280)	240	290	260	[320] ^a	(340)	330	350	380	340	330	320	320	290	280	(270)	[250] ^a	250	270	290	
10	270	270	250	250	260	260	220	270	320	290	300	340	310	320	340	(320)	320	300	270	270	260	250	270	270	260	
11	280	300	320	300	280 ^a	280 ^a	250	250	500 ^a	590 ^a	440 ^a	460 ^a	G	K	460 ^a	[500] ^b	500 ^a	500 ^a	480 ^a	480 ^a	360 ^a	410 ^a	310 ^a	290 ^a	280 ^a	
12	250	240 ^a	260 ^a	260 ^a	260 ^a	270 ^a	230	260	270	300	410	400	370	400	380	380	410 ^a	450 ^a	470 ^a	390 ^a	340 ^a	300 ^a	250 ^a	280 ^a		
13	[280] ^a	310 ^a	310 ^a	310 ^a	300 ^a	300 ^a	(270) ^a	350 ^a	300 ^a	300 ^a	(4-10) ^a	(4-10) ^a	(3-9) ^a	(3-9) ^a	(4-10) ^a	(3-7) ^a	370 ^a	370 ^a	350 ^a	300 ^a	[270] ^a	250 ^a	(250) ^a	(270) ^a	310 ^a	
14	320 ^a	300 ^a	300 ^a	320 ^a	270 ^a	310 ^a	310 ^a	380 ^a	[500] ^b	[450] ^b	[450] ^b	[450] ^b	[400] ^b	[420] ^b	410 ^a	400 ^a	390 ^a	350 ^a	350 ^a	280	260	240	270	240		
15	300	300	270	260	250	250	260	340	310	280 ^a	280 ^a	250	260	340	320	[340] ^c	(380)	440	(370)	360	350	290	280	250	270	290
16	290	270	280	280	300	290	290	270	260 ^a	300 ^a	[270] ^a	(240) ^a	410 ^a	400 ^a	410 ^a	400 ^a	450 ^a	450 ^a	470 ^a	380 ^a	390 ^a	370 ^a	300 ^a	250 ^a	280 ^a	
17	320	300 ^a	300 ^a	300 ^a	290 ^a	290 ^a	260 ^a	260 ^a	530 ^a	520	570 ^a	550 ^a	520	480 ^a	450 ^a	450 ^a	450 ^a	380 ^a	380 ^a	310 ^a	260 ^a	270 ^a	300	290		
18	290	270	300	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
19	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
20	270	270	260	250	270	260	250	250	290	310	320	310	340	320	370	370	360	360	360	360	360	360	360	360	270	
21	280	280	250	250	260	260	250	240	240	260	310	310	320	320	340	350	330	300	300	300	270	250	230	220	210	
22	[300] ^a	270	260	240	240	240	250	250	270	270	270	270	270	270	270	270	(330) ^c	(350)	(340)	(310)	300	270	260	230	220	
23	C	270	260	250	250	250	250	250	260	300	280	320	330	320	330	[340] ^c	330	330	[320] ^c	300	290	260	250	230	260	
24	260	260	270	290	280	280	250	250	270	300	330	330	330	330	320	320	300	270	270	260	240	240	250	290	260	
25	280	C	C	270	[260] ^a	310	[310] ^a	340	430	430	430	430	430	430	430	[4-0] ^c	[3-7] ^c	350	340	(270)	230	260	240	250	240	240
26	260	260	250	260	260	250	250	250	260	260	280	270	270	270	270	270	[3-3] ^c	[3-2] ^c	300	270	250	250	230	[240] ^a	250	
27	280	300	280	280	260	260	250	250	250	270	300	320	320	320	320	320	320	320	320	320	300	280	260	260	260	
28	270	280	270	270	280	280	250	250	270	310	320	320	320	320	320	320	320	320	320	320	270	250	240	240	240	
29	270	270	250	250	270	270	240	230	230	230	250	250	250	250	250	250	250	250	250	250	250	250	250	240	240	
30	270	[280] ^a	230	250	250	270	240	240	310	310	320	310	310	310	310	310	310	310	310	310	290	270	260	260	280	
31	350 ^a	410 ^a	390 ^a	390 ^a	370 ^a	300 ^a	230 ^a	250 ^a	260 ^a	430 ^a	430 ^a	430 ^a	430 ^a	430 ^a	430 ^a	430 ^a	430 ^a	430 ^a	430 ^a	430 ^a	430 ^a	430 ^a	430 ^a	430 ^a		
Sum	280	280	270	270	275	275	250	280	315	320	340	355	380	380	360	360	340	300	280	250	240	250	260	280	280	
Median	29	29	27	28	28	28	28	28	30	30	30	30	30	30	30	30	30	29	29	30	29	29	29	29	29	
Count	29	29	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	

TABLE 70

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

IONOSPHERE DATA-2

Hourly values of F_2 for August 1946
 (Month)

Records measured by: A.K.B.
 J.L.S.

TIME: 75°W MERIDIAN

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	(7.2) (5.8) ^J	5.1	4.8	3.9 ^F	3.9	5.1	5.9	6.4	(7.0) ^J	(7.2)	7.2	7.2	7.6	8.0	7.6	7.3	7.4	7.8	(7.1)	(7.1)	(6.8)	6.8	(6.9) ^J	
2	6.1	(5.4) ^J	5.2	C	C	C	C	C	(6.3) ^J	6.4	(7.4)	(6.8)	7.6	7.6	7.6	[7.8] ^C	7.6	(7.0)	7.4	6.7	(6.7)	(6.1)		
3	(6.1) ^J	6.0	(6.1)	(5.2)	(4.6)	(4.2) ^J	5.3	5.8	(6.1) ^H	(6.0)	(6.4)	[6.1] ^C	(6.4)	6.4	6.6	6.6	6.6	6.7	(6.2) ^J	(6.2)	(6.4)	(5.8)	(5.4) ^J	
4	5.0 ^R	4.9 ^F	4.9 ^F	(4.5) ^J	4.4 ^F	4.3 ^F	(6.0)	7.3	7.6	7.4	8.4	8.6	8.2	8.4	8.1	7.9	7.8	8.2	(8.2)	(7.2)	7.0	(6.4)		
5	6.1	6.1	5.8	(5.6) ^J	4.9	4.9	6.4	(7.6)	(7.2)	7.2	7.2	7.0	7.2	7.2	(7.2)	7.2	7.2	7.4	7.8	(8.4)	(7.4)	(6.8)	(6.0) ^J	
6	(5.6) ^J	5.3	4.9 ^F	4.4 ^F	3.9 ^F	4.0 ^F	5.2	6.2	6.5	6.8	5.3 ^K	(4.9) ^K	(5.7) ^K	5.9	[5.9] ^C	6.0 ^K	6.0 ^K	5.8 ^K	(5.8) ^K	5.5 ^K	5.7 ^K	5.3 ^K	4.7 ^K	
7	5.4	5.3	5.6 ^K	4.9 ^K	3.6 ^K	3.4 ^K	4.5 ^K	5.0 ^K	5.2	5.3 ^K	[4.9] ^K	(5.7) ^K	5.9	[5.9] ^C	6.0 ^K	6.0 ^K	5.8 ^K	(5.8) ^K	5.5 ^K	5.7 ^K	5.3 ^K	4.7 ^K		
8	(4.2) ^K	4.2 ^K	4.0 ^K	3.8 ^K	3.7 ^K	(4.1) ^K	(5.7) ^J	(6.0)	6.7	6.6	6.8	6.8	6.8	7.0	7.0	6.8	7.2	[7.3] ^A	(7.4)	(7.4)	(6.9)	(6.8)		
9	[5.5] ^A	(5.4) ^J	4.3	(3.9)	3.7	5.0	(5.8) ^J	6.9	7.6	7.8	7.8	7.9	7.6	8.4	8.0	8.0	7.5	7.8	(8.2)	7.8	(6.4) ^J	6.0	(5.6) ^J	
10	5.8	(5.3)	4.9	(4.2) ^J	4.0	4.0	5.5	6.9	8.0	8.7	9.0	8.8	9.0	(8.4)	8.7	8.6	8.6	8.6	(9.2)	8.8	(7.4)	7.0	(6.4) ^J	
11	6.0	(5.5) ^J	5.4	5.2	5.1 ^K	4.6 ^K	4.7 ^K	(5.0) ^K	(5.5) ^J	<5.0	5.7 ^K	(5.4) ^K	5.8 ^K	[6.0] ^K	6.2 ^K	6.4 ^K	7.0 ^K	(6.2) ^K	(6.3) ^K	6.0 ^K	6.0 ^K	(6.4) ^J		
12	5.0 ^K	4.4 ^K	3.8 ^K	3.1 ^K	2.8 ^K	2.9 ^K	4.4 ^K	5.0 ^K	(5.3) ^J	(5.8) ^K	6.0 ^K	(5.7) ^K	6.0 ^K	6.3 ^K	6.0 ^K	6.2 ^K	6.2 ^K	(6.2) ^K	(6.2) ^K	6.6 ^K	(7.2) ^K	(4.5) ^K		
13	3.6 ^K	3.2 ^K	(3.2) ^K	(2.9) ^J	(2.7) ^J	(2.7) ^J	3.1 ^K	4.7 ^K	5.2 ^K	(5.2) ^K	(5.6) ^K	(5.0) ^K	(6.0) ^K	6.0 ^K	6.2 ^K	6.2 ^K	6.2 ^K	6.2 ^K	6.3 ^K	(6.4) ^K	(6.0) ^K	(5.1) ^K		
14	4.9 ^K	4.6 ^K	4.4 ^K	4.2 ^K	3.6 ^K	3.0 ^K	3.9 ^K	(4.7) ^K	(5.0) ^K	(6.0) ^K	(5.0) ^K	(5.2) ^K	(6.2) ^K	6.6 ^K	(6.2) ^K	6.0 ^K	6.2 ^K	6.7 ^K	6.7 ^K	7.0 ^K	7.6 ^K	8.0	(6.4) ^J	
15	(4.7)	(4.8)	3.9	2.8	2.8	2.8	4.5	5.3	6.7	(7.2)	7.2	(6.9)	7.4	7.0	7.1	7.3	7.1	7.1	7.6	(7.8)	6.9	(6.0) ^J	(5.0)	4.9
16	4.8	(4.5)	3.9	3.7	(3.4) ^J	(2.7)	4.2 ^K	4.9 ^K	5.3 ^K	5.6 ^K	5.4 ^K	6.0 ^K	6.1 ^K	6.6 ^K	6.8 ^K	6.8 ^K	7.7 ^K	8.0 ^K	8.6 ^K	(8.8) ^K	7.5 ^K	(7.2) ^K	(5.7) ^K	
17	3.9 ^K	4.0 ^K	3.5 ^K	(3.1) ^J	(2.1) ^J	(2.1) ^J	4.1 ^K	5.1 ^K	5.1 ^K	5.3 ^K	5.2 ^K	5.3 ^K	5.3 ^K	5.4 ^K	5.7 ^K	5.7 ^K	5.6 ^K	6.0 ^K	6.0 ^K	(6.0) ^K	5.7 ^K	(5.0) ^K	(4.8)	
18	(4.5) ^J	3.9 ^J	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
19	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
20	5.2	4.8	4.6	4.1	3.8	3.4	4.9	6.0	6.7	7.2	7.5	(7.4) ^J	7.3	7.4	7.6	7.6	7.9	7.9	8.4	(8.2)	8.5	(7.6)	(6.5)	(5.5) ^J
21	5.3	5.2	5.1	4.5	4.0	3.7	5.6	7.2	(8.0) ^J	8.5	8.4	8.6	8.6	8.7	8.8	8.8	8.5	8.6	(8.4)	(8.8)	[8.25] ^C	(7.4)	(6.5) ^J	
22	[6.0] ^C	5.9	5.6	5.2	4.6	4.2	(5.5)	[6.6] ^C	8.1	8.0	8.4	8.4	8.5	9.0	8.7	[6.8] ^C	6.8	(7.1)	(7.3)	(7.2)	6.9	(6.4) ^J	6.0	(5.4) ^J
23	C	5.6	5.4	5.0	4.6	[4.3] ^C	6.0	7.8	8.4	8.8	(8.9) ^J	8.9	9.0	8.9	(8.9)	[8.9] ^C	8.9	(8.6)	C	C	C	C	C	(6.0)
24	(5.9)	5.7	5.2	5.1	4.9	4.8	5.8	7.6	8.6	9.2	9.5	10.0	(10.2)	10.0	(9.5)	9.1	8.8	8.4	8.5	(8.5)	(8.2)	7.1	[6.7] ^C	6.4
25	(6.1)	C	C	C	4.6	(4.0)	5.0	5.5	6.1	5.8	6.6	6.7	7.0	[7.0] ^C	[7.7] ^C	7.1	7.0	6.6	6.9	7.0	6.8	6.1	(5.8)	
26	5.3	5.1	4.9	4.5	4.1	3.9	(5.5)	7.1	8.4	8.3	8.6	8.6	8.6	8.9	[8.9] ^C	8.8	8.5	8.4	(8.9)	8.4	(7.6) ^J	(6.3)	6.0	
27	5.6	5.3	5.0	5.3	4.7	5.7	7.6	8.2	8.2	8.7	8.7	8.9	8.9	8.9	8.7	8.7	8.5	8.7	(8.1)	(7.3)	6.3	6.0		
28	5.7	5.6	5.5	5.3	5.0	(4.1)	4.9	5.4	6.3	6.9	7.3	8.0	8.0	8.9	8.5	8.9	8.7	8.7	8.5	(7.8) ^C	[7.3] ^C	[6.8] ^C	(6.4)	
29	(5.9)	(5.8)	5.6	4.8	4.5	3.8	(5.7)	[7.5] ^C	8.3	8.8	(9.2)	(8.8)	9.5	(9.8)	9.6	9.4	(9.2)	9.2	(9.4)	(9.0)	(8.2)	(7.2)	(7.3)	(6.8)
30	(6.3)	5.9	5.5	5.0	4.5	4.3	5.4	6.6	7.2	8.0	8.3	(8.4)	8.8	8.8	9.0	8.8	9.2	(9.2)	(9.0)	C	C	C	C	
31	6.0 ^K	2.6 ^K	(2.8) ^K	(3.5) ^K	3.8 ^K	4.1 ^K	4.8 ^K	(5.5)	6.0 ^K	(5.7) ^K	(6.0) ^K	(6.0) ^K	5.7 ^K	6.0 ^K	[5.8] ^K	(5.8) ^K	5.8 ^K	6.0 ^K	6.2 ^K	5.8 ^K	4.8 ^K			
Total	5.6	5.3	4.9	4.5	4.0	4.0	5.2	6.0	7.0	7.2	7.1	7.4	7.4	7.5	7.6	7.8	(7.8)	7.2	(6.7)	(6.0)	(5.6)			
Count	29	27	29	29	27	27	26	28	30	30	30	30	30	30	30	30	30	30	30	30	27	27	29	

TABLE 71
IONOSPHERE DATA - 3

Washington, D.C.
(Location)

National Bureau Of Standards
(Institution)

Ionosphere Station
Hour hourly values of $\delta^{\circ} F_2$ in $\frac{1}{10}$ for August 1946
(Month)

TIME: 75°W MERIDIAN

Records measured by: A.K.B.
J.L.S.

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	6.2	5.2	4.8	(4.4) ^J	4.0	4.5	5.4	(6.4) ^J	6.6	(7.0)	7.0	7.6	7.9	7.8	7.4	(7.4) ^J	7.5	7.8	(7.2)	7.1	6.8	6.2	6.1		
2	(5.8) ^J	5.4	C	C	C	C	C	C	6.2	(6.0)	[6.3] ^C	7.0	7.0	7.4	7.4	7.8	7.9	7.6	7.5	(7.4)	(7.0)	(6.2)	(6.1)		
3	6.0	6.2	(5.8) ^J	(5.0)	4.3	4.7	5.6	6.1	6.4	[6.2] ^C	5.9	(6.2)	6.4	6.4	6.5	6.8	6.6	6.7	(6.2) ^J	(6.2)	6.2	(5.2) ^J	(5.1)		
4	5.1 ^F	4.9 ^F	4.7 ^F	4.5 ^F	4.2 ^F	5.0	6.6	(7.2)	7.2	7.8	8.6	8.4	8.3	8.2	8.1	7.8	8.0	7.8	8.2	(7.5)	7.2	6.8	6.3		
5	(6.2)	6.0	(5.8) ^J	5.1	4.6	(5.8) ^J	7.2	7.3	(7.8)	(7.4)	(7.0)	7.4	(7.3)	7.3	7.2	7.2	7.3	7.8	(8.2)	(8.0)	(7.0) ^J	(6.4) ^J	(5.5) ^J		
6	(5.5) ^J	5.2	5.0	4.2	3.9	4.7	5.8	6.4	6.6	7.0	7.2	7.0	6.9	7.0	7.0	7.0	7.3	7.6	7.0	(6.4) ^J	(6.2)	(5.7)	5.5		
7	(5.4)	5.4	(5.3) ^K	4.0 ^K	(3.4) ^K	3.9 ^K	4.8 ^K	5.2 ^K	(5.5) ^K	(5.3) ^K	(6.0) ^K	(5.9) ^K	(5.9) ^K	(5.9) ^K	6.2 ^K	5.9 ^K	(5.8) ^K	(5.8) ^K	5.8 ^K	5.5 ^K	5.9 ^K	5.5 ^K	5.0 ^K		
8	4.2 ^K	4.0 ^K	3.8 ^K	3.7 ^K	3.7 ^K	4.1 ^K	5.1 ^K	6.6	6.8	7.0	(6.6)	(6.8) ^J	6.7	7.0	6.8	7.2	7.2	7.4	7.8	(7.2)	7.2	6.6	(5.8)	5.7	
9	(5.5)	(5.2)	(4.3)	4.0	3.7	4.2	5.3	6.3	7.3	[7.7] ^A	7.8	7.8	7.8	7.8	8.2	8.0	8.0	7.6	(8.2)	(8.0)	(8.0)	(6.4) ^J	6.0		
10	(5.5) ^J	5.3	4.7	4.3	3.8	4.7	6.2	7.6	8.5	8.8	8.8	8.8	8.6	9.0	8.4	8.6	9.0	8.8	[9.0] ^C	(8.2)	7.0	6.8	6.2		
11	5.6	(5.3)	(5.4) ^J	5.1	5.0 ^K	4.5 ^K	4.7 ^K	4.9 ^K	(5.3) ^K	(5.3) ^K	(5.5) ^C	<5.0 ^K	(5.5) ^K	6.0 ^K	6.0 ^K	6.3 ^K	(6.0) ^K	6.3 ^K	(6.4) ^K	(6.4) ^K	5.7 ^K	(5.6) ^J	5.3 ^K		
12	4.8 ^K	4.2 ^K	3.5 ^K	2.9 ^K	2.9 ^K	(2.6) ^J	3.6 ^K	4.6 ^K	5.2 ^K	5.6 ^K	(5.8) ^J	(5.8) ^J	(5.8) ^K	(5.8) ^K	(6.0) ^K	(6.2) ^K	6.2 ^K	6.4 ^K	(6.2) ^K	6.0 ^K	6.4 ^K	6.2 ^K	3.8 ^K		
13	3.4 ^F	(3.3) ^K	(3.0) ^J	(3.0) ^J	(2.8) ^J	3.8 ^K	4.9 ^K	5.2 ^K	(5.2) ^K	(5.6) ^J	(5.6) ^J	(5.6) ^K	(5.6) ^K	(5.6) ^K	6.0 ^K	5.8 ^K	6.0 ^K	6.2 ^K	6.4 ^K	6.4 ^K	6.6 ^K	(4.8) ^J			
14	4.9 ^K	4.3 ^K	(4.1) ^K	2.8 ^K	(4.2) ^J	(4.4) ^K	4.5 ^K	(5.5) ^C	(6.0) ^K	6.4 ^K	6.4 ^K	6.4 ^K	6.4 ^K	6.4 ^K	6.8 ^K	7.0 ^K	7.2 ^K	7.9 ^K	7.7 ^K	(7.2)	6.6	(6.4)	5.5		
15	(4.7)	(4.5)	4.0	3.1	2.4	3.7	5.0	(6.2) ^J	(7.4)	7.7	[7.1] ^C	6.9	7.0	7.4	7.5	7.1	7.1	(7.2)	(7.8)	(7.8)	(7.8)	6.2	(5.4)	(4.8)	4.9
16	4.6	4.2	3.9	(3.6) ^J	2.7 ^F	(3.7)	3.6 ^K	4.6 ^K	5.2 ^K	5.2 ^K	(5.8) ^J	(5.8) ^J	(5.8) ^K	(5.8) ^K	(6.0) ^K	(6.2) ^K	6.2 ^K	6.4 ^K	(6.2) ^K	(6.0) ^K	6.4 ^K	6.3 ^K	3.9 ^K		
17	3.9 ^K	3.6 ^K	3.2 ^K	(2.6) ^J	(1.9) ^J	3.3 ^K	4.5 ^K	<4.8 ^K	(5.0) ^K	5.2 ^K	(5.2) ^K	(5.6) ^J	(5.6) ^J	(5.6) ^K	(5.6) ^K	(5.7) ^K	(5.8) ^K	(5.8) ^K	(6.2) ^K	(5.9) ^K	(5.9) ^K	5.3 ^K	4.4		
18	4.4 ^F	4.2 ^F	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
19	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
20	4.9	4.7	4.3	4.0	(3.4) ^J	4.1	4.5 ^K	5.1 ^K	5.7 ^K	5.7 ^K	(5.3) ^K	(5.4) ^J	(5.6) ^J	(5.6) ^J	6.4 ^K	6.7 ^K	6.8 ^K	7.2 ^K	7.2 ^K	8.0 ^K	8.6 ^K	[8.7] ^C	(8.4) ^K	4.7 ^K	
21	5.3	5.1	4.8	4.2	3.7	4.6	6.4	7.6	8.3	8.2	8.6	8.4	8.3	8.8	8.9	8.6	8.5	(8.6)	8.6	8.8	[8.5] ^C	(8.5) ^J	6.8	[6.2] ^C	
22	5.7	5.9	5.6	5.1	4.3	4.8	[6.0] ^C	7.2	(8.4) ^J	8.3	8.4	8.6	8.6	8.8	8.8	8.7	(8.6)	8.6	C	C	C	C	C	C	
23	C	C	5.5	5.2	4.7	4.4	5.1	[6.6] ^C	8.2	8.4	(9.0) ^J	8.8	9.0	8.9	9.1	9.1	9.0	8.5	C	C	C	C	C	C	
24	(5.9)	5.4	5.0	5.0	4.7	4.9	6.6	8.1	9.2	9.4	10.2	(10.2)	(9.7)	9.2	8.9	8.7	8.5	8.5	8.5	(8.4)	(7.8) ^J	(7.8)	(6.6)	6.4	
25	(5.7)	C	C	4.8	4.2	4.5	5.6	5.8	6.1	6.4	6.4	[6.9] ^C	6.9	[7.0] ^C	7.0	6.8	6.8	6.8	6.8	(7.2)	(6.9)	(6.2)	6.0	5.5	
26	5.3	5.0	4.6	4.2	3.9	4.6	6.3	8.0	8.9	8.8	8.4	8.9	9.0	[8.9] ^C	8.8	8.6	8.7	8.7	8.7	(9.2)	(8.1)	(7.0)	(6.1)	5.7	
27	5.3	5.3	5.2	5.3	4.9	4.9	6.8	8.3	8.9	8.8	9.0	9.0	8.6	8.7	8.9	8.9	9.2	9.1	(8.3)	8.1	6.7	(6.1)	6.0		
28	5.7	5.1	5.5	5.0	4.3	5.4	5.6	6.7	7.1	7.6	8.7	8.9	8.6	8.7	8.7	8.6	8.6	8.6	[7.0] ^C	[6.5] ^C	[6.5] ^C	6.0	5.5		
29	5.8	5.8	5.0	4.7	3.9	4.7	[6.5] ^J	[8.0] ^C	[8.6] ^J	9.2	[9.2] ^J	10.0	9.4	[9.3] ^C	[9.2] ^C	[9.2]	[9.2]	[9.2]	[9.2]	[9.2]	[9.2]	[9.2]	7.0	6.2	
30	6.0	5.8	5.2	4.8	4.3	4.6	6.2	(7.2)	7.7	8.4	8.2	(8.6)	8.8	8.8	9.2	9.0	9.3	8.8	C	C	C	C	(7.2)	(6.4) ^J	
31	(3.5) ^J	2.8 ^F	3.3 ^K	5.6 ^K	(3.8) ^K	5.3 ^K	4.6 ^K	6.0 ^K	5.3 ^K	5.5 ^K	5.8 ^K	(5.9) ^J	(5.9) ^J	5.7 ^K	(5.9) ^K	5.7 ^K	(5.9) ^K	[5.6] ^C							
Sum	5.4	5.2	4.8	4.2	4.0	4.6	5.6	6.4	6.9	7.0	7.2	7.4	7.4	7.6	7.6	7.8	7.4	(7.0)	(6.2)	(5.8)	5.5	5.5	5.5		
Median	2.9	2.7	2.8	2.8	2.8	2.8	2.8	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.7	2.7	2.7	2.9	2.9		
Count	29	29	27	28	28	28	28	28	29	30	30	30	30	30	30	30	30	29	27	27	27	29	29		

TABLE 72
IONOSPHERE DATA - 4

National Bureau Of Standards
(Institution) **Treatment** **August 1946**
Hourly values of h_f for I_{a} for I_{b} for I_{c}
Records measured by: A. K. B.
J. L. S.

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																								
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25																								
26																								
27																								
28																								
29																								
30																								
31																								
Sum																								
Median	250	230	220	210	210	200	210	200	200	200	200	200	200	200	200	200	220	220	230	240				
Count	6	12	26	48	29	30	28	28	28	28	26	26	26	26	26	26	26	26	26	26	26	15		

TABLE 73
IONOSPHERE DATA-5

Washington, D.C. Ionosphere Station

National Bureau Of Standards
(Institution)

Hourly values of $f_0 F_{\perp}$, in Hz for AUGUST 1946
(Month)

TIME: 75° W MERIDIAN

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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28																								
29																								
30																								
31																								
Sum	44.2	44.6	45.0	45.1	45.2	45.3	45.2	45.1	45.2	45.3	45.2	45.1	45.2	45.1	45.2	45.1	45.2	45.1	45.2	45.1	45.2	45.1	45.2	
Average	44.2	44.6	45.0	45.1	45.2	45.3	45.2	45.1	45.2	45.3	45.2	45.1	45.2	45.1	45.2	45.1	45.2	45.1	45.2	45.1	45.2	45.1	45.2	
Count	11	18	28	39	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	

Records measured by: A.K.B.
J.L.S.

Washington, D.C.

(Location)

National Bureau Of Standards

(Investigation)

TIME: 75°W MERIDIAN**IONOSPHERE DATA - 6**

TABLE 74
IONOSPHERE STATION
Hourly values of $\frac{1}{\text{E}} \text{ in } \mu\text{m}$ for August 1946
(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					C	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110		
2					C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
3					120	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	120	
4					110	120	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	120	
5					110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	120	
6					C	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
7					110	K	120	K	110	K	C														
8					110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
9					110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	C
10					110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	120
11					110	K	110	K	110	K	110	K	110	K	110	K	110	K	110	K	110	K	110	K	110
12					C	K	110																		
13					110	K	110	K	110	K	110	K	110	K	110	K	110	K	110	K	110	K	110	K	110
14					120	K	110																		
15					C	120	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	C
16					120	K	110	K	120																
17					110	K	110	K	110	K	110	K	110	K	110	K	110	K	110	K	110	K	110	K	110
18					C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
19					C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
20					130	H	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
21					[110] ^c	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
22					120	110	110	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
23					110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	120	
24					110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	120	
25					[110] ^c	110	110	110	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
26					110	110	110	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
27					110	N	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	120	
28					110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	120	
29					120	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
30					110	H	110	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
31					110	K	120	K	110	K															
Sum					110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	120	
Median					25	28	28	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
Count																									

Records measured by: A.K.B.
J.L.S.

Washington, D.C. Ionosphere station
 Location: Institution: National Bureau of Standards

TABLE 76
 IONOSPHERE DATA - 8

TIME: 75° W MERIDIAN

Hourly values of E_s in no for August 1946
 (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	15/130	32/20	38/100	43/20	43/10	37/100	38/100	36/10	64/10	80/100	37/100	39/10	52/100	38/100	40/100	37/100	16/100	15/100	16/100	15/100	15/100	15/100	15/100	
2	44/10	38/10	35/10	32/10	C	C	C	C	C	C	C	C	C	C	C	40/30	52/30	40/20	34/10	36/10	23/20	47/20	47/10	
3	48/10	38/10	32/10	35/10	43/20	28/20	53/100	51/100	40/100	40/100	40/100	40/100	48/20	47/30	36/20	37/20	27/10	27/10	27/10	27/10	27/10	27/10	27/10	
4	29/100	23/100	37/100	37/100	37/100	44/20	38/120	47/110	52/110	41/110	52/110	41/110	39/110	43/110	43/110	43/110	43/110	43/110	43/110	43/110	43/110	43/110		
5	30/100	14/10	25/100	53/100	60/100	53/100	41/100	29/120	40/110	39/120	50/110	53/110	51/110	43/110	38/110	44/120	48/120	52/120	49/120	49/120	49/120	49/120		
6	30/100	25/100	53/100	60/100	53/100	41/100	66/100	53/120	50/110	39/110	42/110	40/110	42/110	42/110	40/110	42/120	42/120	42/120	42/120	42/120	42/120	42/120		
7	48/100	38/10	31/10	52/10	41/100	39/100	50/100	38/100	40/100	38/100	40/100	38/100	40/100	38/100	40/100	38/100	40/100	37/100	37/100	37/100	37/100	37/100		
8	14/100	24/100	13/10	38/120	29/110	39/120	39/120	40/110	42/120	53/120	40/110	42/110	50/110	54/120	57/120	57/120	57/120	57/120	57/120	57/120	57/120	57/120		
9	82/100	45/100	29/10	35/110	30/100	38/110	41/110	53/110	66/110	113/110	52/110	53/110	52/110	51/110	51/110	51/110	51/110	51/110	51/110	51/110	51/110	51/110		
10	29/110	29/10	14/100	50/110	50/110	41/100	42/120	66/110	76/110	66/110	53/110	53/110	57/110	64/100	55/110	50/110	54/120	68/120	35/120	70/110	53/110	37/100		
11	28/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100	15/100		
12	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100	29/100		
13	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110	15/110		
14	40/110	33/110	50/110	50/110	41/100	39/110	74/110	24/20	39/110	C	41/100	110	41/100	53/110	57/110	55/110	50/110	54/120	68/120	35/120	70/110	53/110	37/100	
15	27/110	38/10	24/120	34/120	34/110	29/110	39/110	42/110	40/110	68/120	50/110	40/110	40/110	53/110	50/110	53/110	53/110	53/110	53/110	53/110	53/110	53/110		
16	29/100	12/110	16/110	27/110	27/110	29/100	30/120	37/110	38/120	40/140	38/110	40/110	42/120	42/120	42/120	42/120	42/120	42/120	42/120	42/120	42/120	42/120		
17	29/100	12/110	16/110	27/110	27/110	29/100	30/120	37/110	38/120	40/140	38/110	40/110	42/120	42/120	42/120	42/120	42/120	42/120	42/120	42/120	42/120	42/120		
18	28/110	30/110	30/110	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
19	24/110	26/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110		
20	37/110	29/110	29/110	24/110	45/110	44/110	47/110	47/110	42/110	42/110	50/100	50/100	40/100	39/110	40/110	40/110	40/110	40/110	40/110	40/110	40/110	40/110		
21	37/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110	29/110		
22	53/110	30/110	30/110	26/110	27/110	37/110	50/110	45/110	40/110	42/130	41/100	40/100	40/100	40/100	40/100	40/100	40/100	40/100	40/100	40/100	40/100	40/100		
23	30/110	23/110	24/110	28/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110	23/110		
24	27/110	35/110	31/110	22/100	27/110	27/110	27/110	27/110	27/110	27/110	66/110	55/110	41/110	41/120	39/110	38/110	52/120	85/120	85/120	85/120	85/120	85/120		
25	35/110	C	C	26/110	36/110	47/110	50/110	52/110	51/110	53/110	53/110	53/110	53/110	53/110	53/110	53/110	53/110	53/110	53/110	53/110	53/110	53/110		
26	28/110	23/110	27/110	33/110	46/100	49/100	38/110	34/20	35/110	41/110	40/120	45/120	38/120	C	34/110	43/110	28/110	29/110	33/110	55/110	29/110	23/110		
27	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100	23/100		
28	26/110	23/110	24/110	24/110	36/100	23/120	38/110	53/110	50/110	41/110	35/120	52/120	50/120	50/120	50/120	50/120	50/120	50/120	50/120	50/120	50/120	50/120		
29	32/110	26/110	30/100	37/100	23/100	38/130	29/110	40/110	50/110	50/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110		
30	35/110	43/100	27/100	31/110	38/100	38/100	29/100	41/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110	39/110		
31	36/120	23/140			24/140	37/120	32/120	38/110	38/110	40/110	38/110	40/110	42/120	42/120	C	57/110	78/110	60/110	45/110	31/110	38/110	50/100		
Sum	Mediatr.	2.9	2.6	2.4	2.4	2.7	3.8	4.0	5.0	4.2	4.0	4.0	3.8	3.9	4.0	3.9	3.8	3.8	3.4	3.0	3.1	3.0	2.8	
Median	Count	29	29	28	28	28	28	28	28	30	30	30	29	30	30	30	30	30	30	30	29	29	29	

Records measured by A.K.B.
 J.L.S.

TABLE 77
IONOSPHERE DATA - 9

Washington, D.C. Ionosphere station

National Bureau Of Standards

(Institution)

TIME: 75°W MERIDIAN

Hourly values of F2 - M1500 for August 1946
(Month)

Records measured by: A.K.B.
J.L.S.

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)	(1.8) ^J	1.8	1.7F	1.9	1.9	1.7	1.9	(1.9) ^J	(2.0)	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	(1.8)	(1.8)	(1.8)	(1.8) ^J		
2	1.8	(1.8) ^J	1.7	C	C	C	C	C	C	1.7	(1.8) ^J	1.5	(1.9)	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	(1.8)	
3	(1.8) ^J	1.8	(1.8)	(2.0)	(1.8) ^J	2.0	2.0	(1.7) ^H	(1.9)	(1.9)	(1.9)	C	(1.7)	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.9	1.9	1.9	(1.8) ^J	
4	(1.9)F	1.8F	1.7F	(1.8) ^J	1.8F	2.0F	(2.2)	2.1	2.0	1.8	1.9	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	(1.8)	
5	1.8	1.8	1.9	(2.0) ^J	1.8	2.0	(2.2)	(2.2)	(2.2)	1.9	1.7	1.7	1.8	1.7	1.8	1.7	1.8	1.7	1.8	1.9	1.9	1.9	1.9	(1.8) ^J	
6	(1.8) ^J	1.9	1.9F	1.9F	1.8F	1.8F	1.8	1.9	1.9	1.8	1.8	1.8	1.9	1.7	1.7	1.7	1.8	1.9	1.9	(1.9)	(1.9)	(2.0) ^J	(1.8) ^J	(1.8)	
7	1.7	1.6	1.8K	1.8K	1.7K	1.6K	1.7K	1.7K	1.9K	1.9K	1.9K	1.9K	1.9K	1.7K	1.7K	1.7K	1.8K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	1.8K	
8	(1.8) ^J	1.6K	1.8K	1.6K	1.9K	(2.1)	(2.0) ^J	(2.0)	2.1	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	A	(2.0)	1.9	1.8	
9	A	(1.9) ^J	1.9	1.8	(1.8)	1.9	1.9	(2.1) ^J	2.1	2.1	1.9	2.0	1.9	1.8	1.9	1.9	1.9	1.9	2.0	1.9	1.9	(1.9)	(2.0) ^J	1.8	(1.8) ^J
10	1.8	(1.9)	1.9	(1.9) ^J	1.9	2.0	2.2	2.1	1.9	1.8	2.0	1.9	2.0	(2.0)	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	(1.8) ^J
11	1.8	(1.7) ^J	1.6	1.7	1.8K	1.8K	1.9K	1.6K	(1.8) ^J	(3)	K	1.	K	C	K	C	K	C	K	C	K	C	K	1.8K	
12	1.9K	1.9K	1.9K	1.7K	1.8K	1.9K	1.9K	1.9K	1.8K	(1.8) ^J	(1.9)	K	1.7	K	1.7	K	1.8K	(1.8) ^K	1.8K	(1.9)	K	1.9K	(1.9) ^J	1.8K	
13	1.9K	1.7K	1.7K	1.7K	C	K	C	K	C	K	1.7K	1.7K	1.7K	1.7K	1.7K	1.7K	1.7K	1.7K	1.7K	1.7K	1.7K	1.7K	1.7K	(1.9) ^J	
14	1.7K	1.8K	1.6K	1.7K	1.7K	1.8K	1.8K	1.7K	1.8K	(1.9)	K	1.7	K	C	K	C	K	C	K	C	K	C	K	1.8K	
15	(1.7)	1.8	1.9	1.9	1.9	1.9	2.0	1.9	2.1	(2.1)	1.9	(1.9)	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	
16	1.8	(1.9)	1.7	1.7	(1.8) ^J	(1.8)	2.0	2.0	1.9K	1.9K	1.9K	2.0K	1.7K	1.8K	1.8K	1.8K	1.8K	1.8K	1.8K	1.8K	1.9K	1.9K	1.9K	1.8K	
17	1.7K	1.7K	1.7K	1.8K	(1.8) ^J	1.8K	1.8K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	1.9K	(1.8)	
18	(1.8) ^J	1.8F	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
19	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
20	1.8	1.8	1.9	1.9	1.9	2.0	2.1	2.0	2.0	2.0	(2.0)	J	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	(1.8)	
21	1.9	1.8	1.9	1.9	1.9	2.0	2.2	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	(1.9) ^J	
22	C	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	C	
23	C	1.9	1.9	1.9	2.0	1.9	1.9	C	2.2	2.2	2.1	2.0	(1.9) ^J	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	(2.0)
24	(1.9)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.1	2.1	2.1	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	C	
25	(1.9)	C	C	C	C	C	C	C	(1.8)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	C	
26	1.9	1.9	1.8	1.9	1.8	1.8	1.8	1.8	(2.1)	2.0	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	(2.0) ^J	
27	1.8	1.7	1.7	1.7	1.7	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	C	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
28	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	(1.9)	2.0	2.0	2.1	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	(1.9) ^J	
29	(1.9)	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	(1.9) ^J	
30	(1.9)	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	(1.9) ^J	
31	1.6K	1.5K	(1.6)K	(1.7)K	(1.7)K	2.1K	2.1K	1.9K	(1.8)K	(1.6)K	(1.6)K	(1.6)K	(1.6)K	(1.6)K	(1.6)K	(1.6)K	(1.6)K	(1.6)K	(1.6)K	(1.6)K	(1.6)K	(1.6)K	1.8K		
Sum	1.9	1.8	1.8	1.8	1.8	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	(1.8)	
Median	1.7	2.9	2.6	2.7	2.6	2.8	2.6	2.7	2.8	2.7	2.8	2.7	2.6	2.7	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	
Count	37	29	26	27	26	28	26	27	28	27	28	26	27	27	26	27	26	27	26	27	26	27	26	28	

TABLE 78
MONOSPHERE DATA- 10

Londoner Straße

Washington, D. C. _____

National Bureau Of Standards

(Location) Nation

TIME: 75° W MERIDIAN

National Bureau Of Standards

Records measured by: A.K.B.

Hourly values of F2-M3000 for August 1946

TABLE 79
IONOSPHERE DATA - II

TABLE 80
IONOSPHERE DATA- 12
Washington D. C.

Washington, D.C. Ionosphere 91-110

National Bureau of Standards

100

TABLE 80
MONOSPHERE DATA-12

卷之三十一

4

100

Hourly values of E-M1500 for August 1946
 (Month) (Year) (Month) (Year)

TIME: 75°W MERIDIAN

Table 81

Ionospheric Storminess, August 1946

Day August	Ionosphere 00-12 GCT	Character* 12-24 GCT	Principal Storms Beginning GCT	End GCT	Geomagnetic Character ** 00-12 GCT	12-24 GCT
1	1	0			1	1
2	2	1			1	1
3	1	3			1	1
4	2	3			1	1
5	1	1			1	1
6	2	2			1	2
7	2	4	0700	----ff	2	3
8	3	1	----	1100	1	2
9	2	2			1	1
10	1	3			0	2
11	2	5	0900	----	3	3
12	4	4	----	----	2	2
13	4	4	----	----	2	1
14	4	4	----	----	3	3
15	4	2	----	1000	3	3
16	2	4	1100	----	3	3
17	3	5	----	----	3	3
18	***	***	----	0300	1	1
19	***	2			1	1
20	1	2			1	1
21	1	1			1	0
22	1	1			1	0
23	***	3			0	0
24	1	3			2	1
25	***	3			2	1
26	1	0			1	1
27	2	0			1	1
28	1	0			1	1
29	1	3			0	0
30	0	1			0	2
31	4	5	0500	----ff	4	3

*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.

***No readable record. Refer to Table 70 for detailed explanation.

ffDashes indicate continuing storm.

ffStorm continued after 2300 August 31.

Table 82

Sudden Ionosphere Disturbances Observed at Washington, D.C.

Day	GCT		Location of Transmitters	Relative Intensity at minimum*	Other Phenomena
	Beginning	End			
August	2	1440	1520	Ohio, D.C., Chile, Eng- land, Mexico, New Bruns- wick	0.1
		1802	1830	Ohio, D.C., Chile, Eng- land, Hawaii, Mexico, Ontario	0.1 Terr. mag. pulse** 1802-1825
		1840	1900	Ohio, D.C., Chile, Eng- land, Hawaii, Mexico, Ontario	0.0 Terr. mag. pulse** 1840-1900
		1301	1320	Ohio, D.C., Chile, Eng- land, Mexico, Ontario	0.03 Terr. mag. pulse** 1300-1320
		1514	1540	Ohio, D.C., Chile, Eng- land, Mexico, Ontario	0.0
		1419	1445	Ohio, D.C., Chile, Eng- land, Mexico, Ontario	0.1
		1512	1540	Ohio, D.C., England, Mexico, Ontario	0.05
		1402	1410	Ohio, D.C., Chile, Eng- land, Mexico, Ontario	0.2 Terr. mag. pulse** 1402-1410
		1528	1720	Ohio, D.C., England, Mexico, Ontario	0.0
		2140	2200	Ohio, D.C., Chile, Eng- land, Hawaii, Mexico, Ontario	0.05

*Ratio of received field intensity during SID to average field intensity before and after, for station W8XAL, 6080 kilocycles, 600 kilometers distant.

**As observed on Cheltenham magnetogram of the United States Coast and Geodetic Survey.

Table 83

Sudden Ionospheric Disturbances Reported by Engineer-in-Chief
Cable and Wireless, Ltd.

Table 63 (Continued)

Number	GCT Beginning	GCT End	Receiving Station	Location of Transmitters	Distance from London	GCT	Receiving Station	Location of Transmitters
	1045	1110	Brentwood, England	Austria, Belgian Congo, Brazil, Bulgaria, Ceylon, France, Greece, Italy, Islands, Southern Rhodesia, Spain, Switzerland, U.S.S.R., Yugoslavia, Zanzibar	1,020	1115	Brentwood, England	Belgian Congo, Brazil, Bulgaria, Chile, Greece, Indis, Iran, Kenya, Madagascar, Palestine, Southern Rhodesia, Spain, Syria, Uruguay, Yugoslavia, Zanzibar
	0740	0830	Brentwood, England	Bulgaria, Canary Islands, India, Iraq, East Palestine, Portugal, Southern Rhodesia, Spain, Syria, Turkey, U.S.S.R., Yugoslavia	-	1215	Brentwood, England	Austria, Belgian Congo, Brazil, Bulgaria, Chile, Greece, India, Iran, Kenya, Madagascar, Palestine, Portugal, Southern Rhodesia, Spain, Syria, Thailand, Venezuela, Yugoslavia, Zanzibar
	0750	0930	Somerton, England	Ceylon, China, India, Soviet Union in Europe	23	1330	1520	Brentwood, England
	1240	1310	Brentwood, England	Austria, East, Ecuador, Venezuela	-	1430	1520	Argentina, Barbados, Egypt, Gold Coast, New York
	1500	1630	Brentwood, England	Austria, Brazil, India, Iraq, India, Iran, Poland, Portugal, Spain, Switzerland, U.S.R., Venezuela	23	1730	1800	Brazil, Canary Islands, Chile, Colombia, Madagascar, Portugal, Spain, Uruguay, Venezuela
	1510	1630	Somerton, England	Australia, Canada, Chile, India, Japan, New Zealand	23	1730	1840	Argentina, Barbados, Canada, New York
	0730	0815	Brentwood, England	Bulgaria, French Equatorial Africa, Iraq, Egypt, Spain, Yugoslavia	23	1730	1840	Brazil, Chile, Colombia, Greece, Madagascar, Switzerland, Uruguay, Venezuela
	0900	0945	Brentwood, England	Austria, Bolivia, Canada, Bulgaria, Greece, India, Egypt, Madagascar, Portugal, Southern Rhodesia, Spain, Sweden, U.S.S.R., Yugoslavia	23	1730	1840	Brentwood, England
					23	1735	1825	Argentina, Barbados, Canada, Egypt, Gold Coast, India, New York, Union of South Africa

Table 82 (Continued)

Table 82 (Continued).

Day	GCT Beginning	End	Receiving Station	Location of Transmitters	Day	GCT Beginning	End	Receiving Station	Location of Transmitter
					August	3	1035	1115	
July 25	0945	0945	Brentwood, England	Belgian Congo, Kenya, Southern Rhodesia	Austria, Belgian Congo, Brazil, Chile, Spain, U.S.S.R.	Argentina, China, New York	1035	1115	Brentwood, England
25	1510	1600	Brentwood, England	Austria, Brazil, Chile, Spain, U.S.S.R.	Austria, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela, Yugoslavia	Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa	1036	1115	Somerston, England
25	1510	1530	Somerston, England	Austria, Belgium Congo, Brazil, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela, Yugoslavia	Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa	1300	1400	Brentwood, England	
25	1610	----	Brentwood, England	Austria, Belgium Congo, Brazil, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela, Yugoslavia	Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa	1306	1440	Somerston, England	
25	1615	----	Somerston, England	Austria, Belgium Congo, Brazil, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Kenya, Madagascar, Turkey, Southern Rhodesia	Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa	1515	1545	Brentwood, England	
26	0745	0810	Brentwood, England	Brazil, Canary Islands, Chile, Colombia, France, Spain, Switzerland, Thailand, Uruguay, Venezuela	Brazil, Chile, Colombia, Venezuela	1520	1635	Somerston, England	
27	1410	1545	Brentwood, England	Brazil, Canary Islands, Chile, Colombia, France, Spain, Switzerland, Thailand, Uruguay, Venezuela	Brazil, Chile, Colombia, Venezuela	1430	1600	Brentwood, England	
30	1605	1630	Brentwood, England	Brazil, Chile, Colombia, Venezuela	Brazil, Chile, Colombia, Venezuela	1355	1425	Brentwood, England	
August 2	1648	1525	Brentwood, England	Brazil, Chile, Colombia, Spain, Venezuela	Austria, India, Kenya, Madagascar, Palestine, Southern Rhodesia, Turkey, U.S.S.R., Yugoslavia	1035	1115	Brentwood, England	
3	0820	0845	Brentwood, England	Austria, India, Kenya, Madagascar, Palestine, Southern Rhodesia, Turkey, U.S.S.R., Yugoslavia	Austria, Belgium Congo, Bulgaria, Chile, Greece, India, Iran, Kenya, Palestine, Spain	1035	1115	Brentwood, England	

Note - Observers are invited to send to the CRPL information on times of beginning and end of sudden ionosphere disturbances, for publication as above. Address letters to Central Radio Propagation Laboratory, National Bureau of Standards, Washington 25, D. C.

Table 54

Provisional Radio Propagation Quality Figures

July 1946

Compared with CEPL Warnings and CEPL Probable Disturbed Period Forecasts

Day	North Atlantic				North Pacific				Geo- mag- netic Index K_A	Quality Figure Scale:
	Quality Figure	CEPL* Warning	CEPL** Probable	Geo- Disturbed Period	Quality Figure	CEPL* Warning	CEPL** Probable	Geo- Disturbed Period		
01-12	G	G	G	G	G	G	G	G	G	1
13-24	G	G	G	G	G	G	G	G	G	2
01-10	G	G	G	G	G	G	G	G	G	3
11-21	G	G	G	G	G	G	G	G	G	4
01-11	G	G	G	G	G	G	G	G	G	5
12-22	G	G	G	G	G	G	G	G	G	6
01-01	G	G	G	G	G	G	G	G	G	7
1-11	G	G	G	G	G	G	G	G	G	8
12-22	G	G	G	G	G	G	G	G	G	9
01-01	G	G	G	G	G	G	G	G	G	
1	6	6	X	0	1	6	7	X	0	1
2	5	5		2	2	5	6		2	2
3	(4)	5		3	2	6	(4)		3	2
4	5	6		1	1	6	6		1	1
5	7	7		1	1	7	8		1	1
6	7	6		1	1	6	5		1	1
7	5	6		4	3	6	7		4	3
8	(4)	5		2	2	7	8		2	2
9	5	5		3	2	6	7		3	2
10	5	6		2	2	6	7		2	2
11	5	6		2	2	5	7		2	2
12	6	6		1	1	5	5		1	1
13	6	6		1	1	6	-		1	1
14	5	6		2	3	5	6		2	3
15	5	6		3	1	6	-		3	1
16	5	6		1	3	(4)	5		1	3
17	5	6		3	2	5	7		3	2
18	6	5		2	4	5	8		2	4
19	(4)	(4)		4	2	(3)	5		4	2
20	5	5		1	1	(4)	(4)		1	1
21	5	5		2	2	(4)	6		2	2
22	6	5		2	2	(3)	(4)		2	2
23	5	5		3	3	(4)	(4)		3	3
24	6	5		1	1	6	7		1	1
25	5	(3)		2	3	(4)	(4)		2	3
26	(3)	(1)		3	5	(3)	(4)		3	5
27	(2)	(2)		7	3	(4)	(4)		7	3
28	(4)	(3)		2	3	(4)	7		2	3
29	(4)	(4)		4	4	(4)	8		4	4
30	(3)	(4)		4	3	(3)	6		4	3
31	5	5		2	1	5	8		2	1

Score:

H	7	6			7	7
M	2	3			6	6
G	15	13			11	10
(S)	5	7			2	3
S	2	2			5	5

*Broadcast on WWV, Washington, D. C. Times of warnings recorded to nearest half-day as broadcast.

**In addition to dates marked X, the following were designated as probable disturbed days on forecasts more than eight days in advance of said dates: July 4, 14.

Quality Figure 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 or probable disturbed date.
- H Quality 4 or worse on day or half day of warning.
- M Quality 4 or worse on day or half day of no warning.
- G Quality 5 or better on day of no warning.
- (S) Quality 5 on day of warning.
- S Quality 6 or better on day of warning.
- () Quality 4 or worse (disturbed).

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

Table 85

Daily Median Values of American Relative Sunspot Numbers*August 1946

Date	No.	Date	No.
1	127	16	91
2	129	17	74
3	126	18	102
4	136	19	109
5	120	20	105
6	108	21	96
7	96	22	107
8	110	23	127
9	125	24	109
10	97	25	88
11	98	26	88
12	83	27	78
13	84	28	98
14	104	29	104
15	97	30	132
		31	142

No. Days 31Mean 106.1

* Median of data from 24 observers.

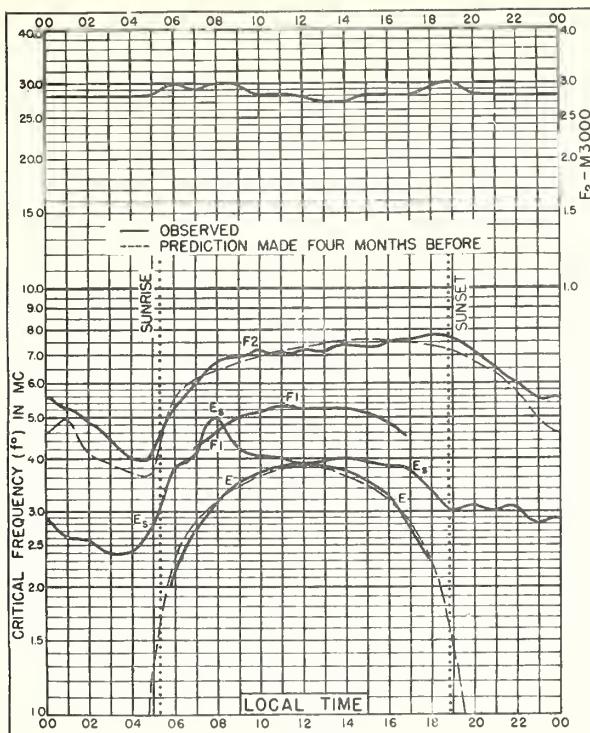


Fig. 1. WASHINGTON, D.C.
39°N, 77°W AUGUST 1946

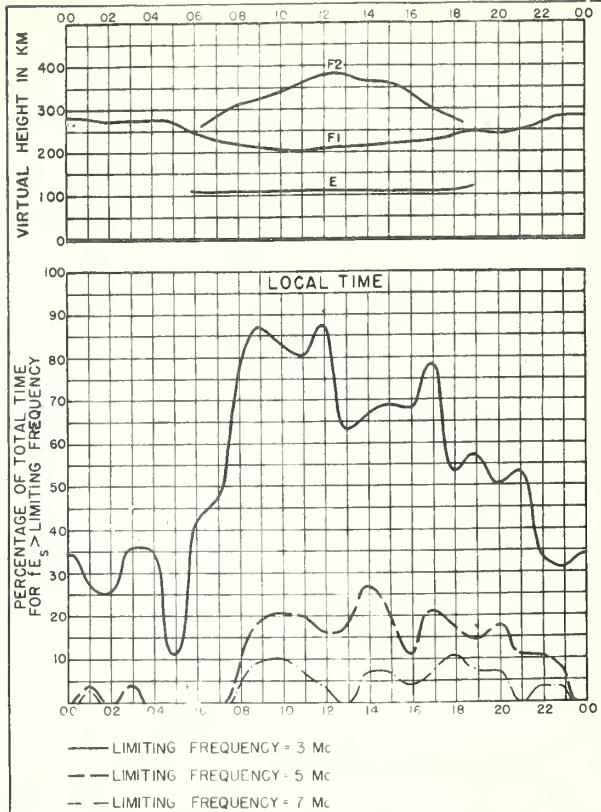


Fig. 2. WASHINGTON, D.C. AUGUST 1946

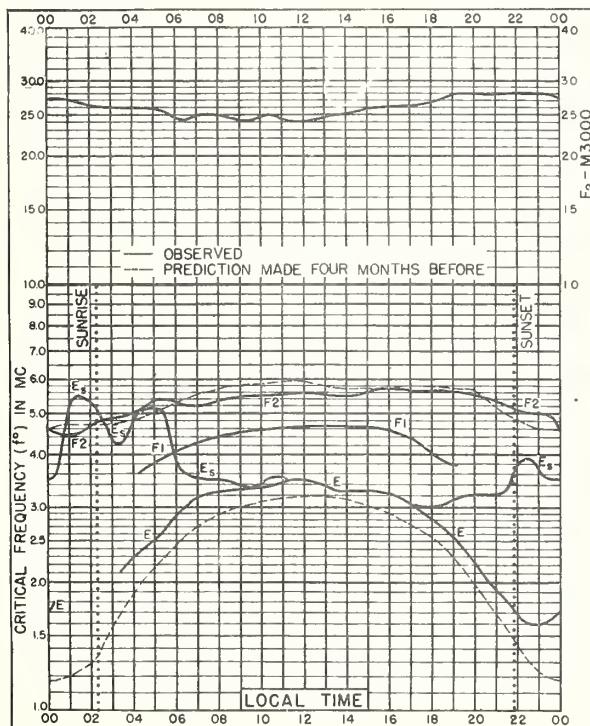


Fig. 3. FAIRBANKS, ALASKA
64.9°N, 147.8°W JULY 1946

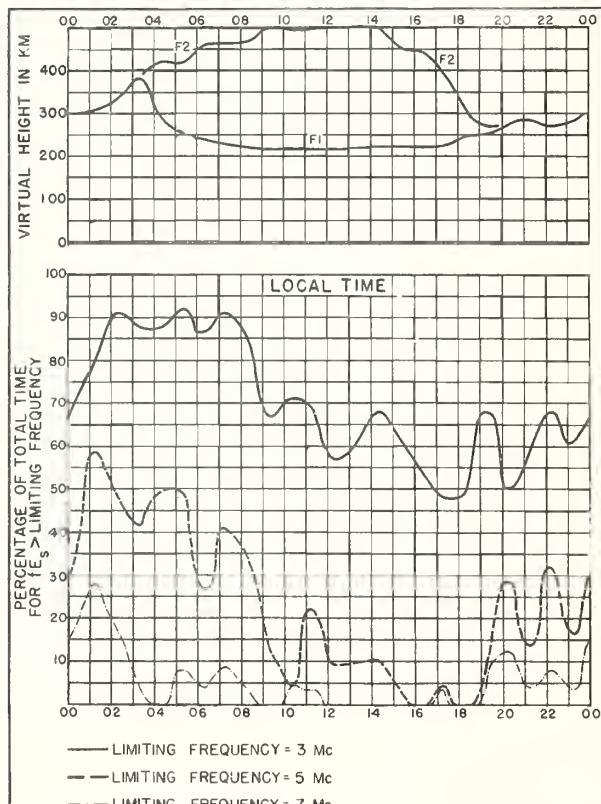


Fig. 4. FAIRBANKS, ALASKA JULY 1946

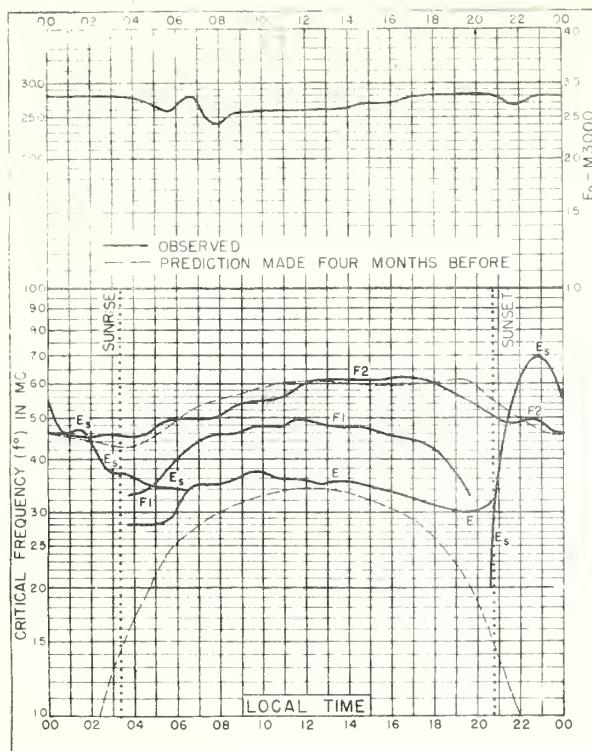


Fig. 5. CHURCHILL, CANADA
58.8°N, 94.2°W JULY 1946

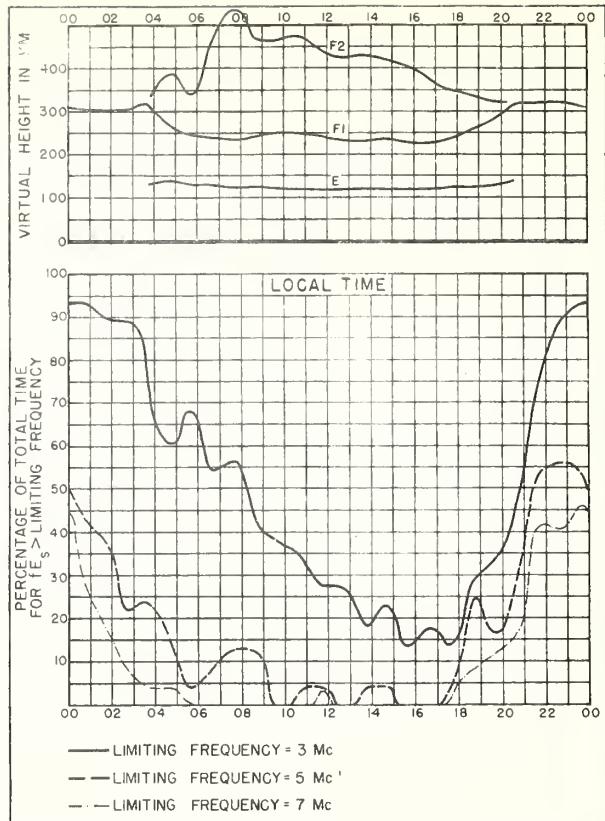


Fig. 6. CHURCHILL, CANADA JULY 1946

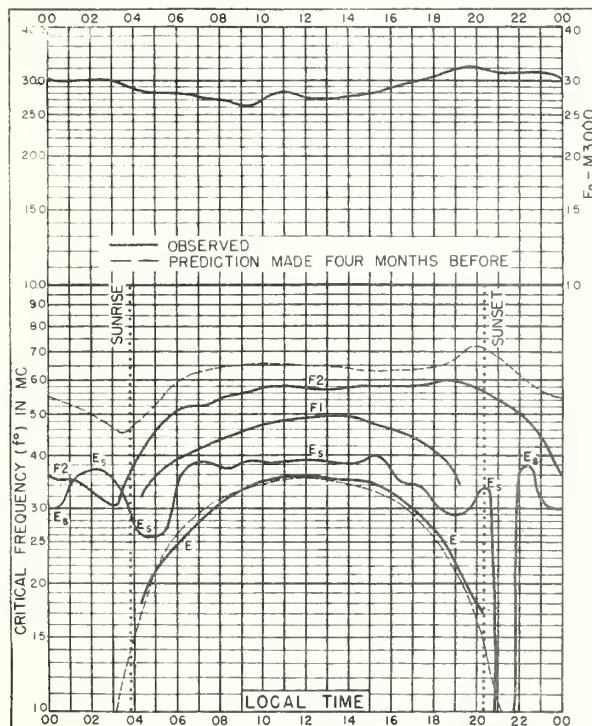


Fig. 7 PRINCE RUPERT, CANADA
54.3°N, 130.3°W JULY 1946

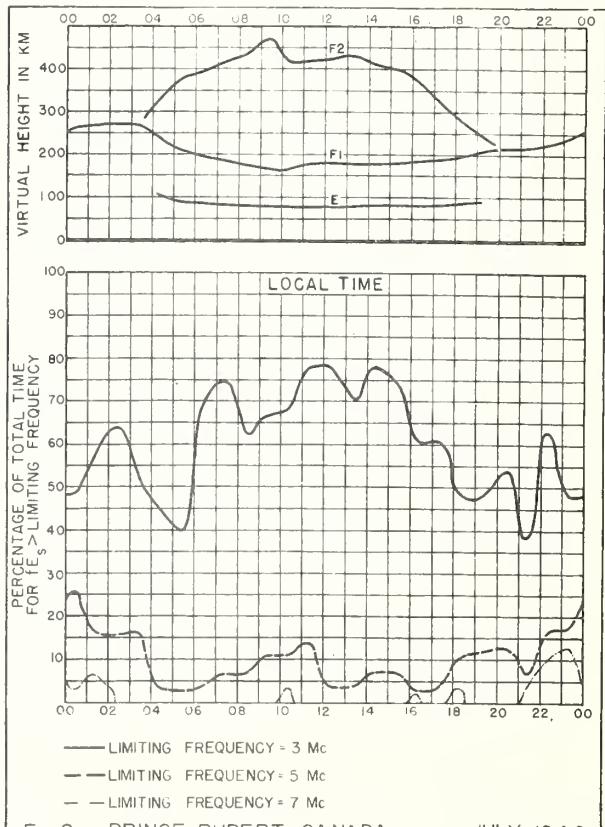
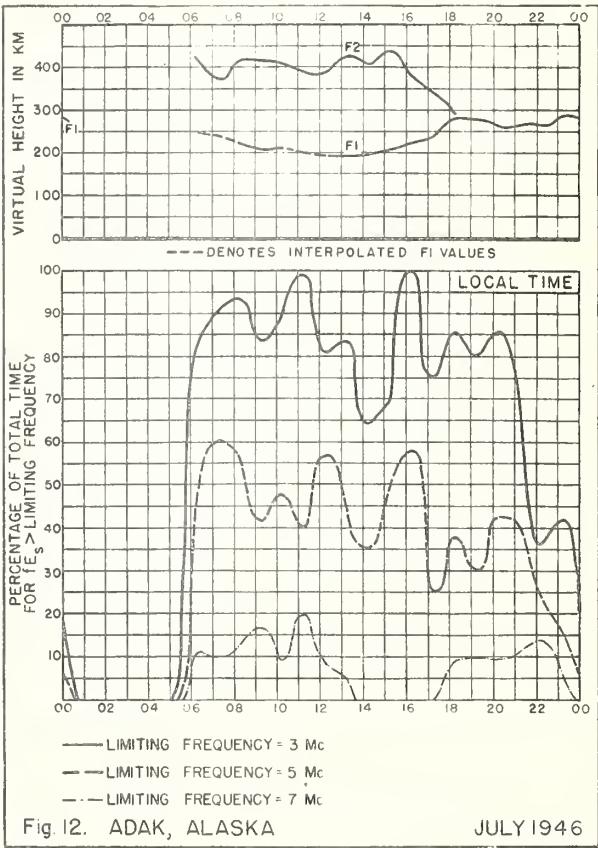
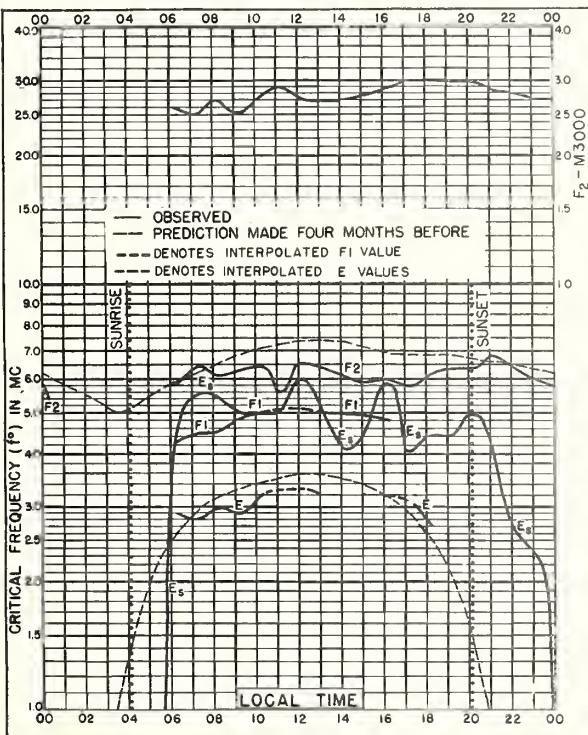
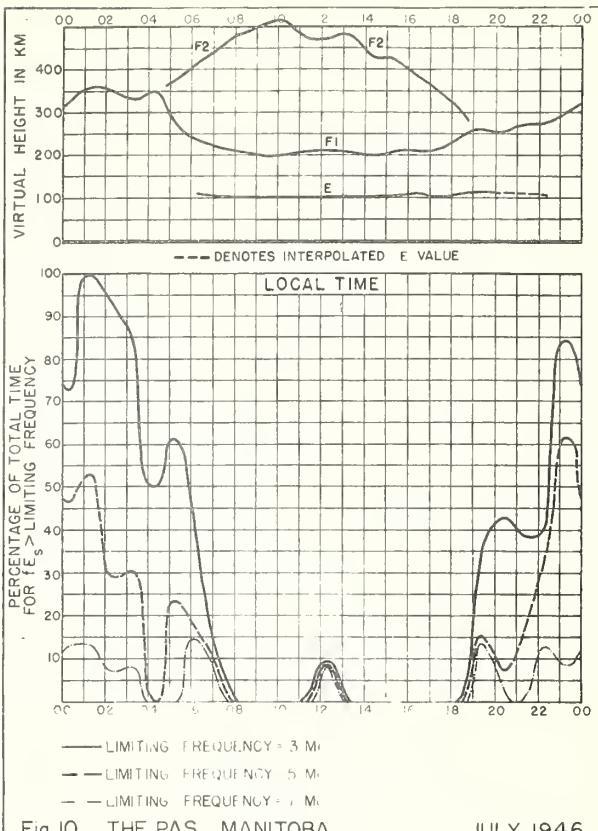
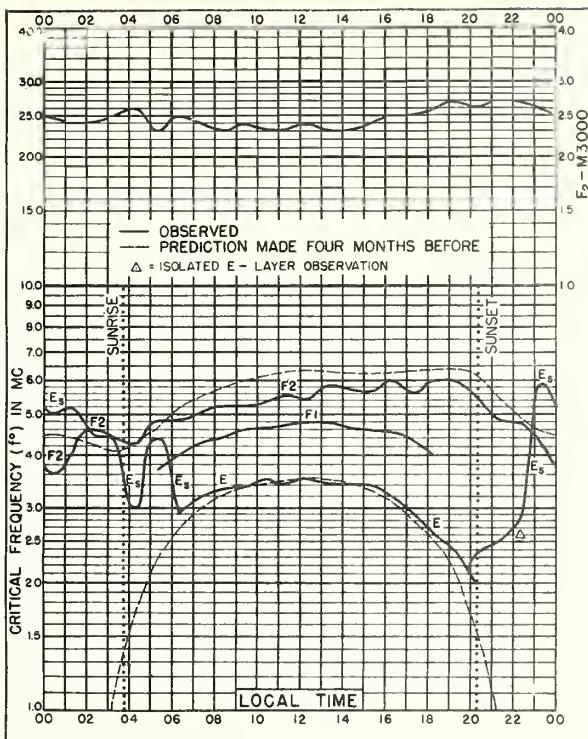


Fig. 8. PRINCE RUPERT, CANADA JULY 1946



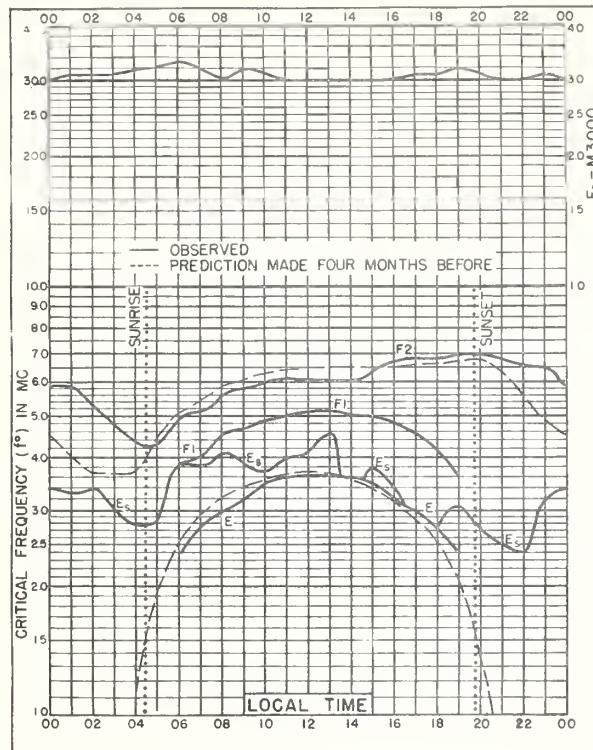


Fig. 13. ST. JOHN'S, NEWFOUNDLAND
47.6°N, 52.7°W JULY 1946

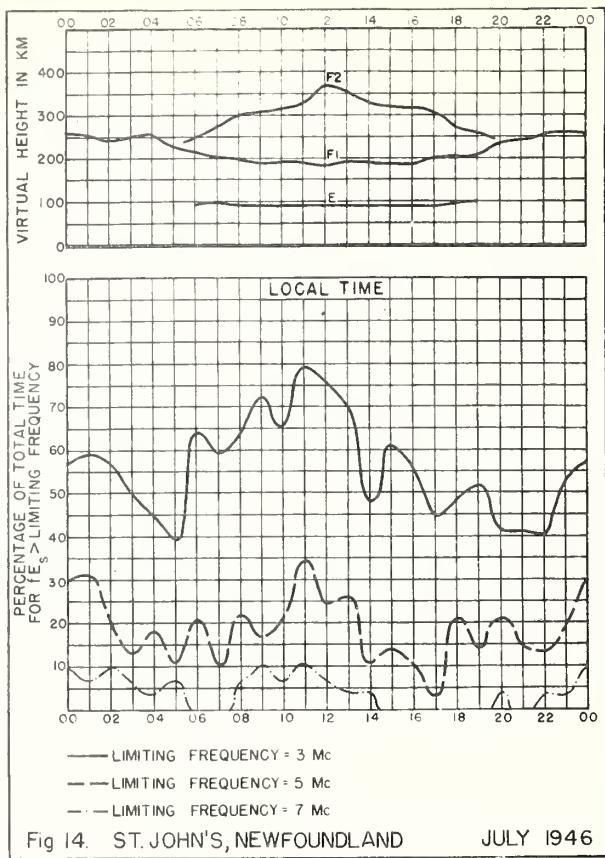


Fig. 14. ST. JOHN'S, NEWFOUNDLAND JULY 1946

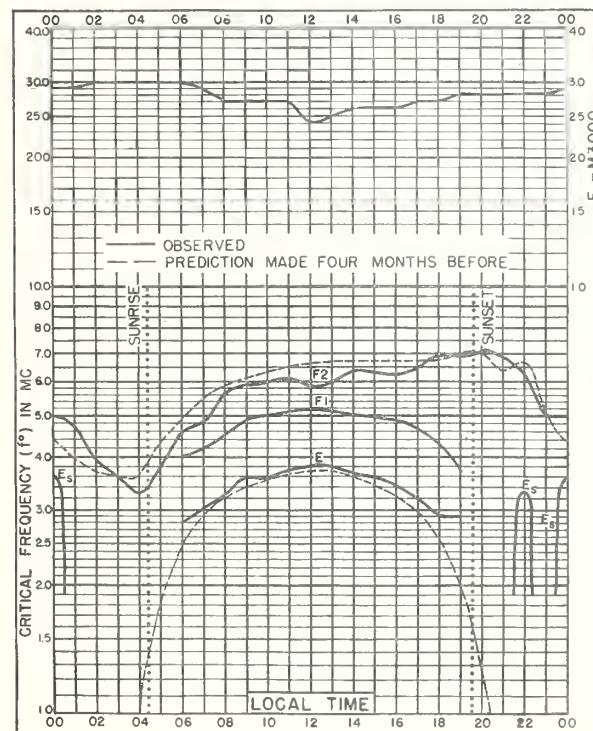


Fig. 15. OTTAWA, CANADA
45.5°N, 75.8°W JULY 1946

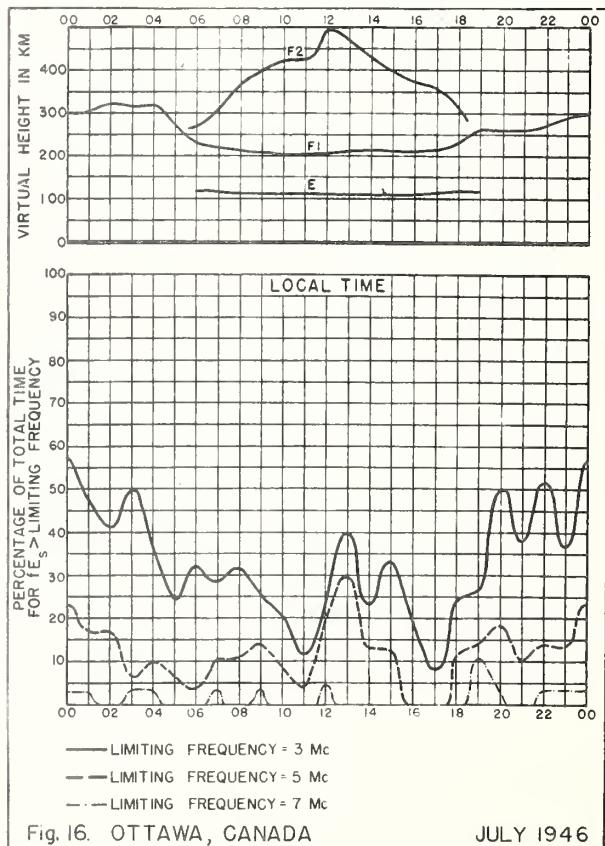


Fig. 16. OTTAWA, CANADA JULY 1946

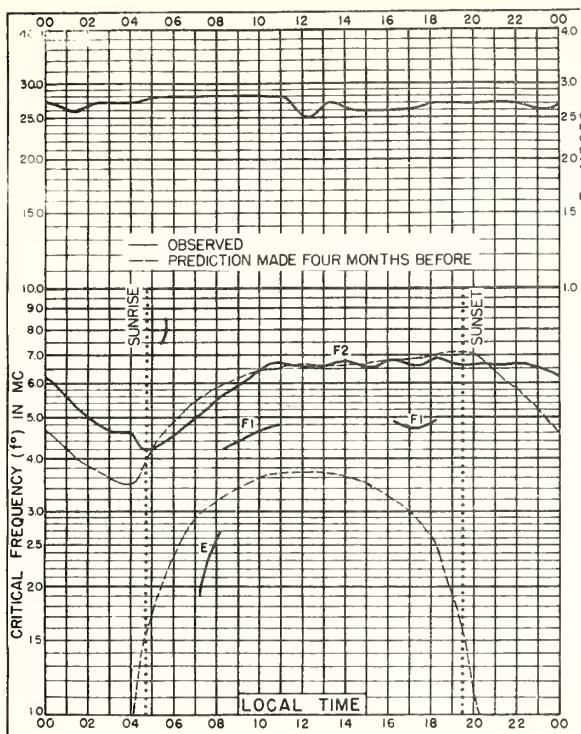


Fig. 17. BOSTON, MASSACHUSETTS

42.4°N, 71.2°W

JULY 1946

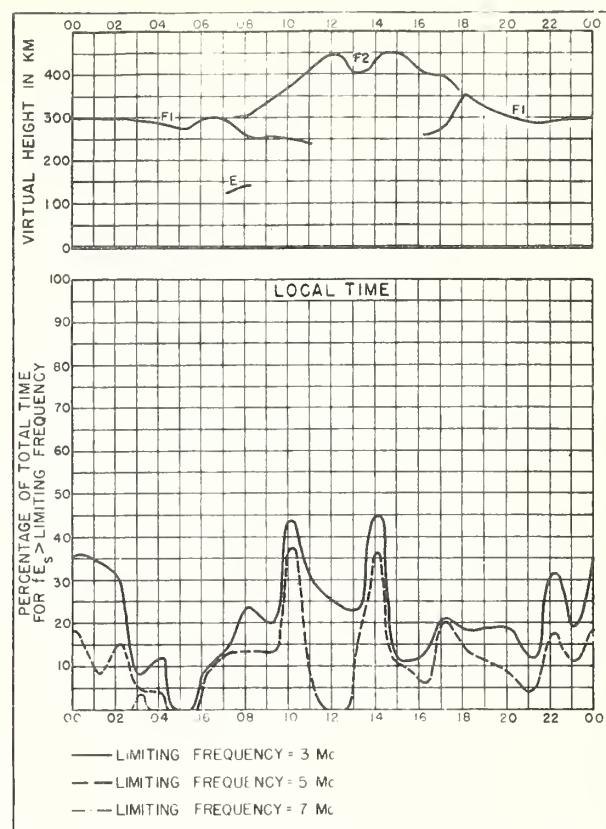


Fig. 18. BOSTON, MASSACHUSETTS

JULY 1946

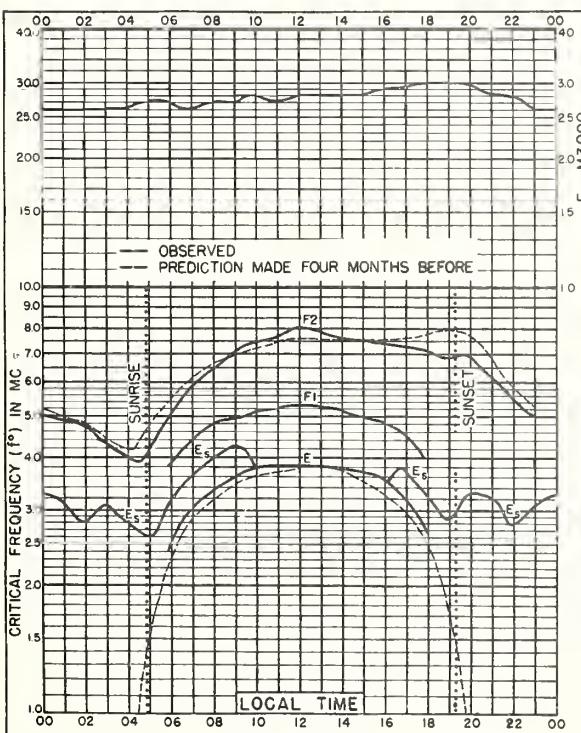


Fig. 19. SAN FRANCISCO, CALIFORNIA

37.4°N, 122.2°W

JULY 1946

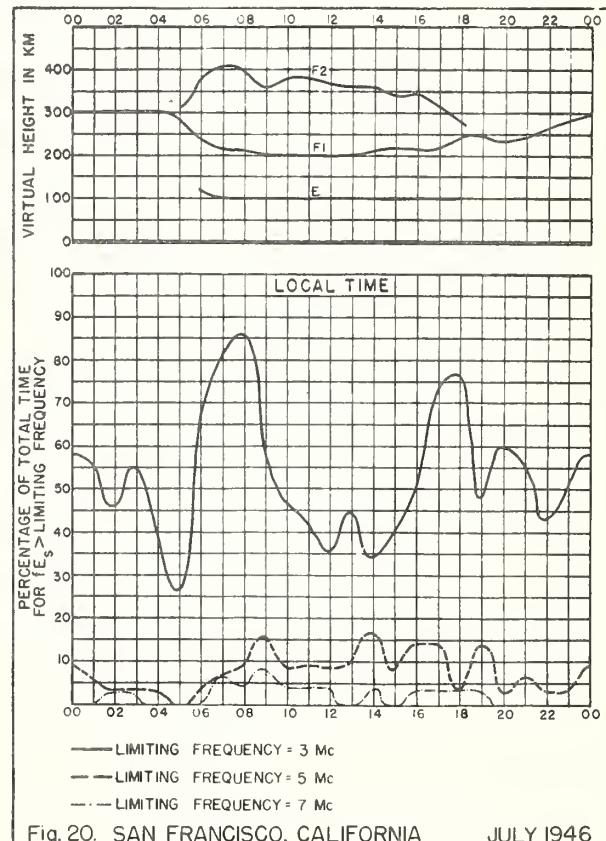


Fig. 20. SAN FRANCISCO, CALIFORNIA

JULY 1946

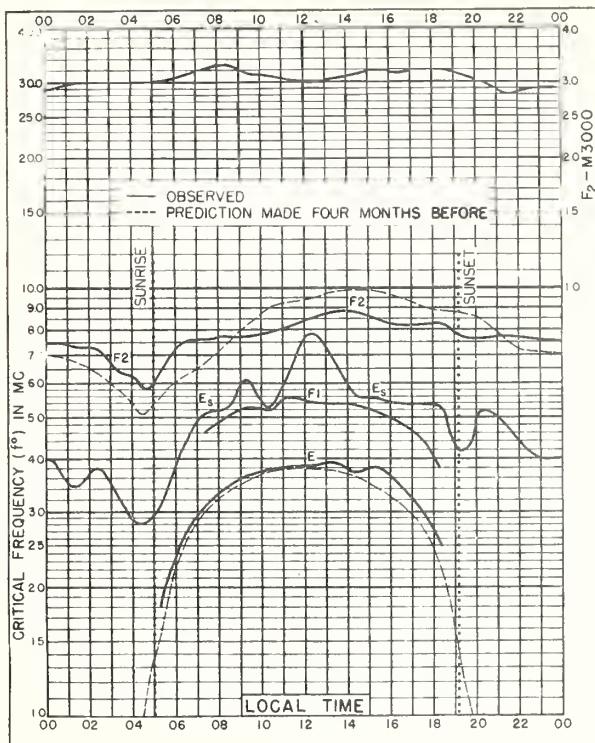


Fig. 21. TOKYO, JAPAN

35.6°N, 139.6°E

JULY 1946

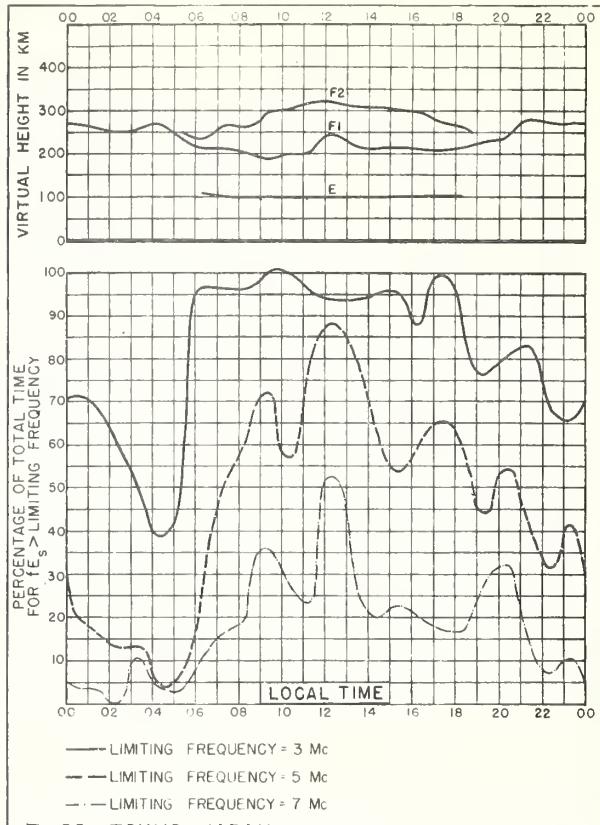


Fig. 22. TOKYO, JAPAN

JULY 1946

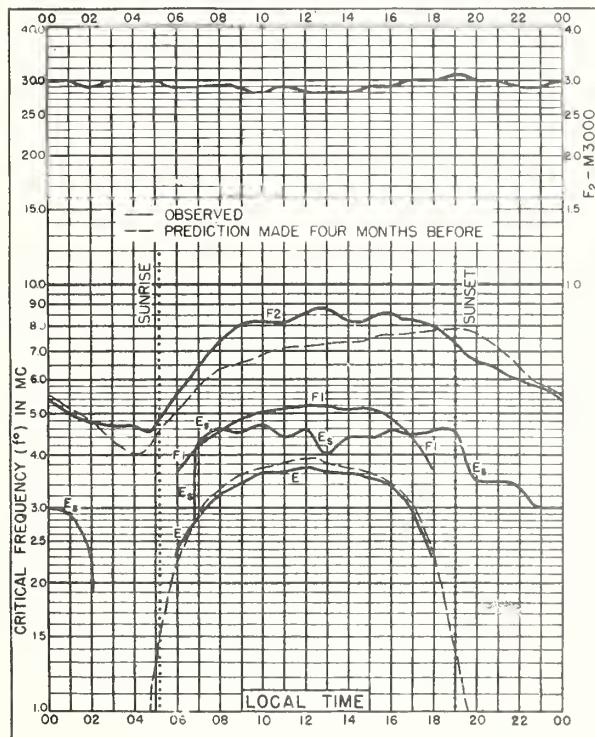


Fig. 23. BATON ROUGE, LOUISIANA

30.5°N, 91.2°W

JULY 1946

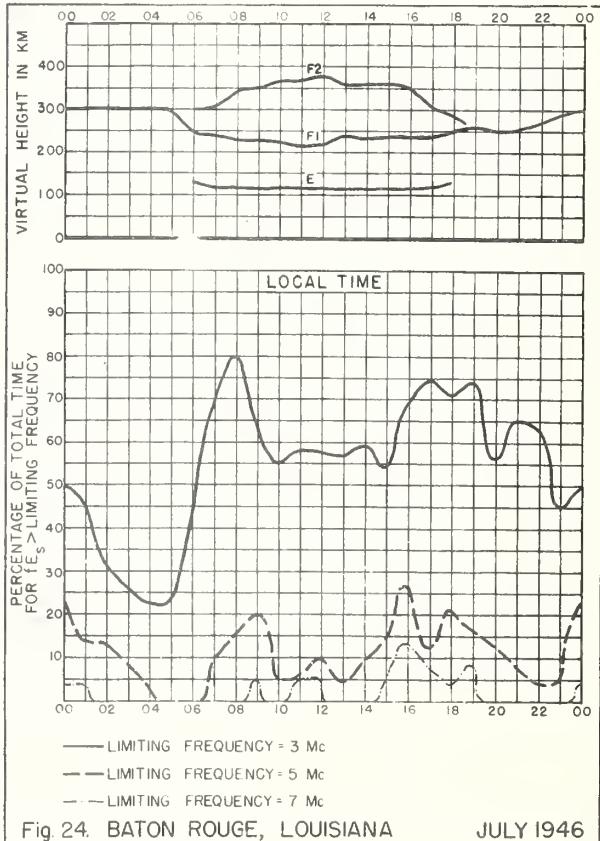


Fig. 24. BATON ROUGE, LOUISIANA

JULY 1946

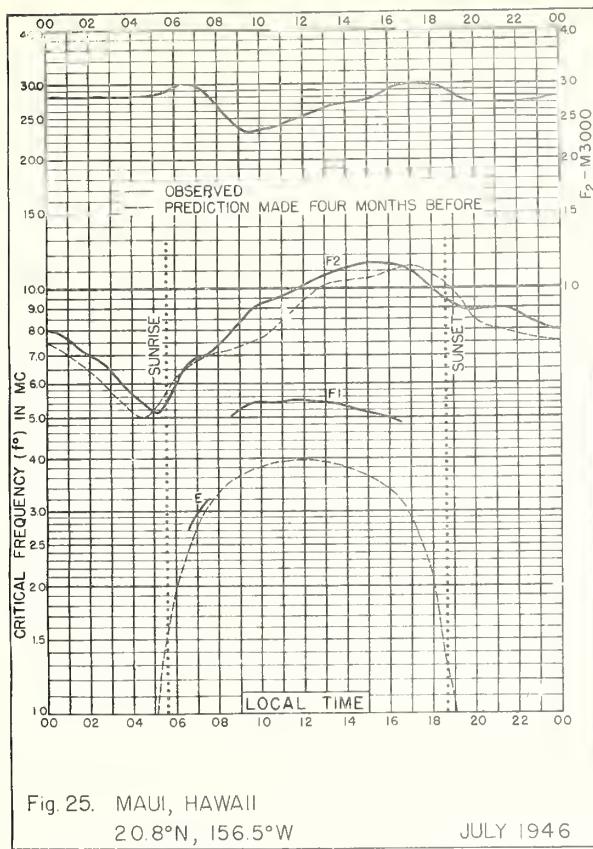


Fig. 25. MAUI, HAWAII
20.8°N, 156.5°W

JULY 1946

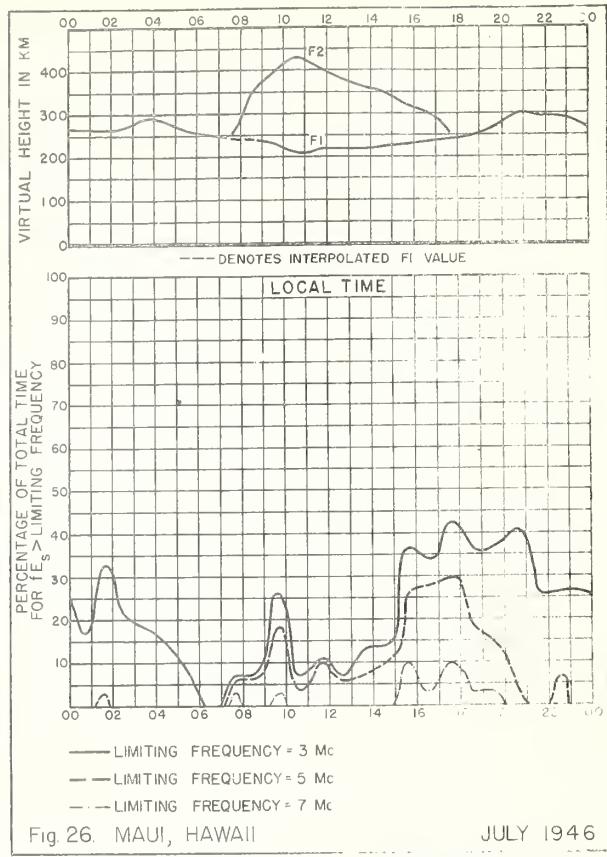


Fig. 26. MAUI, HAWAII

JULY 1946

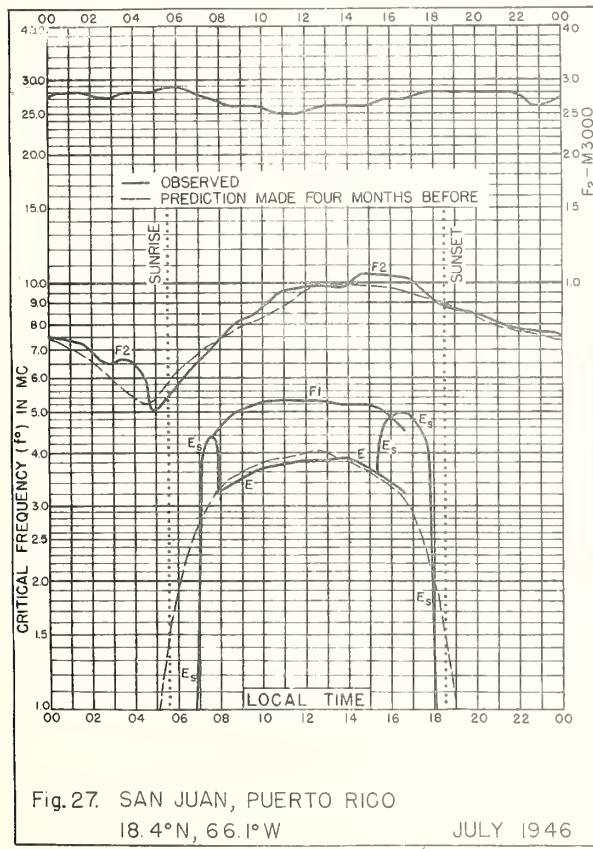


Fig. 27. SAN JUAN, PUERTO RICO
18.4°N, 66.1°W

JULY 1946

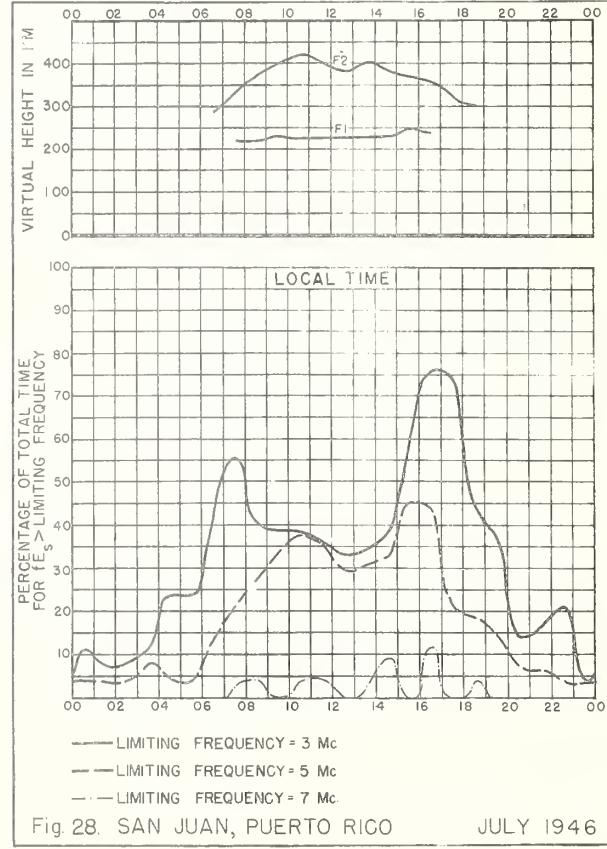
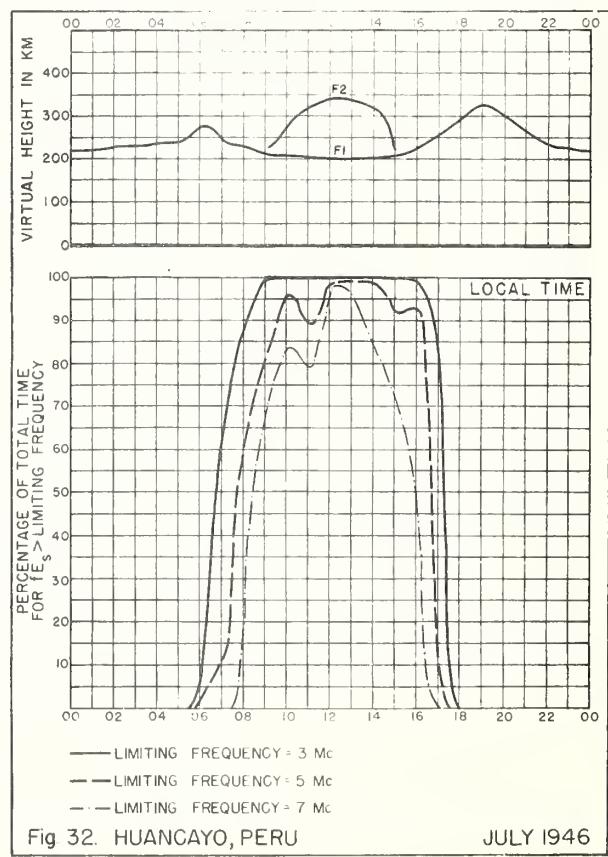
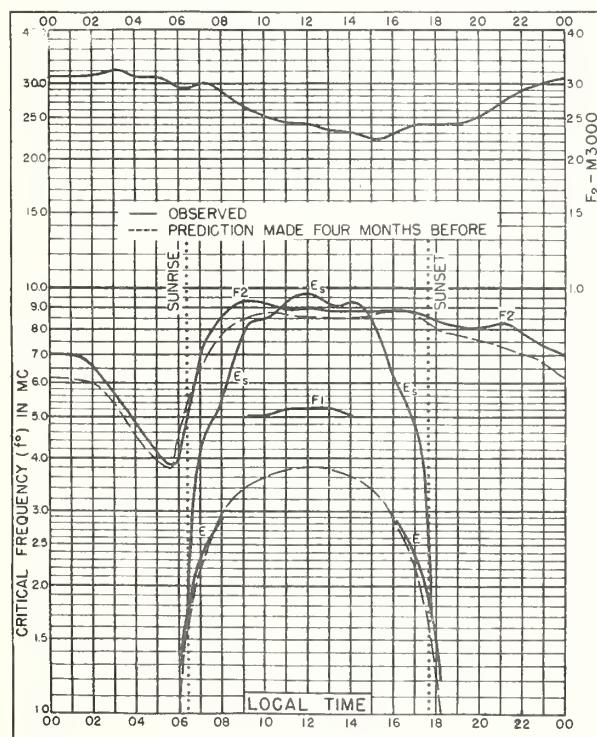
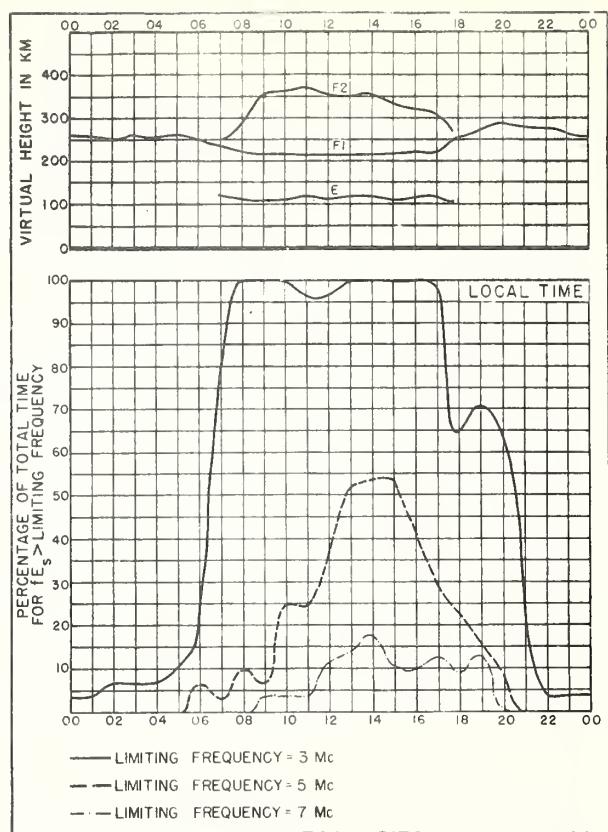
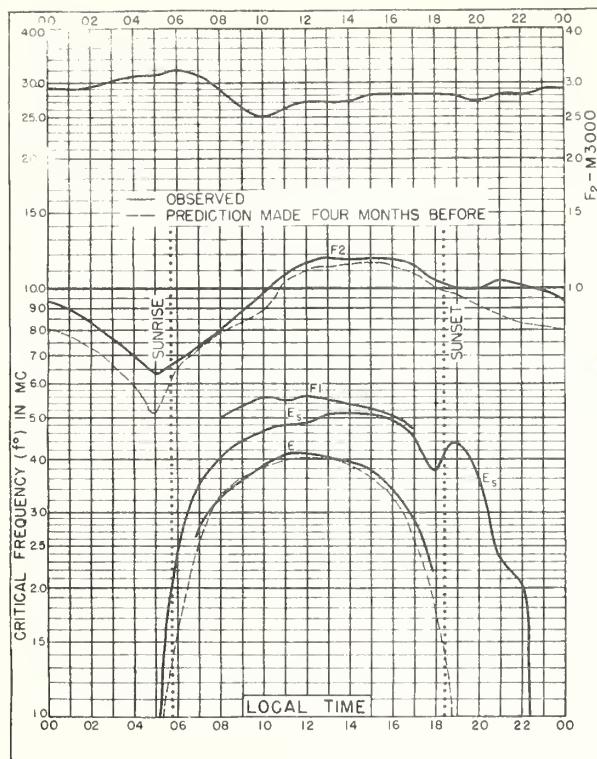


Fig. 28. SAN JUAN, PUERTO RICO

JULY 1946



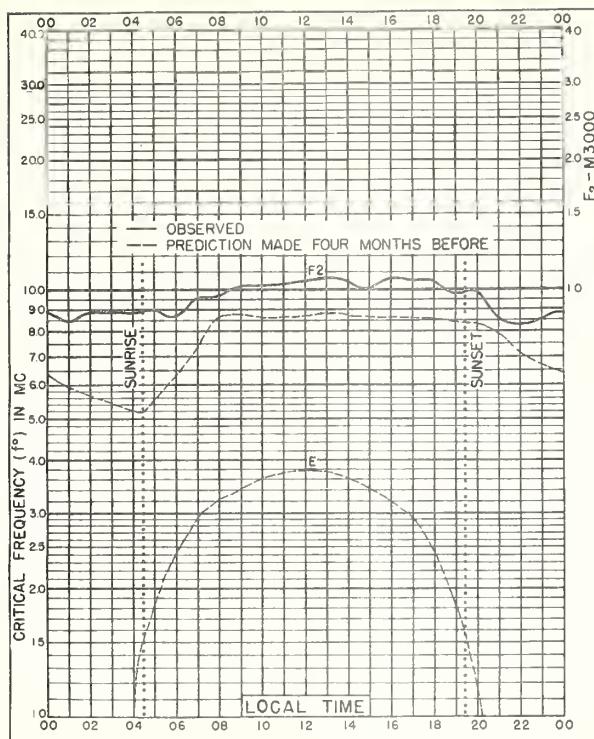


Fig. 33. PEIPING, CHINA
39°9'N, 116.4°E JUNE 1946

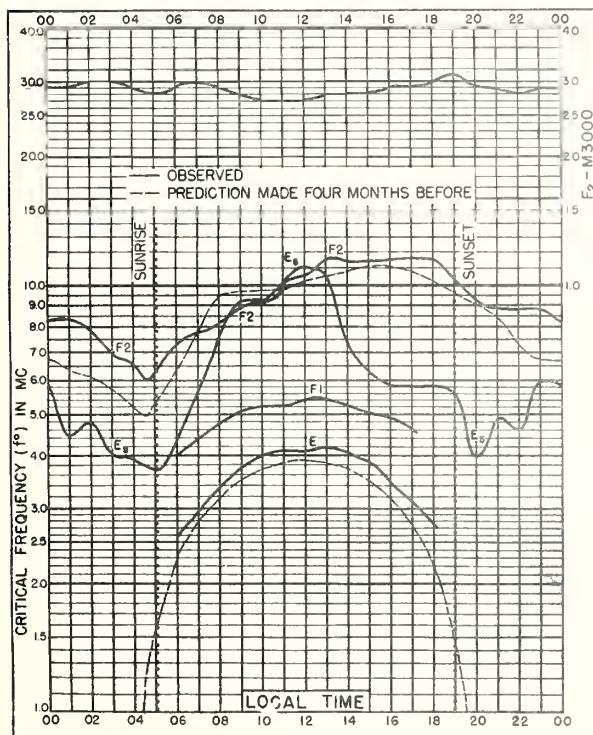


Fig. 34. CHUNGKING, CHINA
29.4°N, 106.8°E JUNE 1946

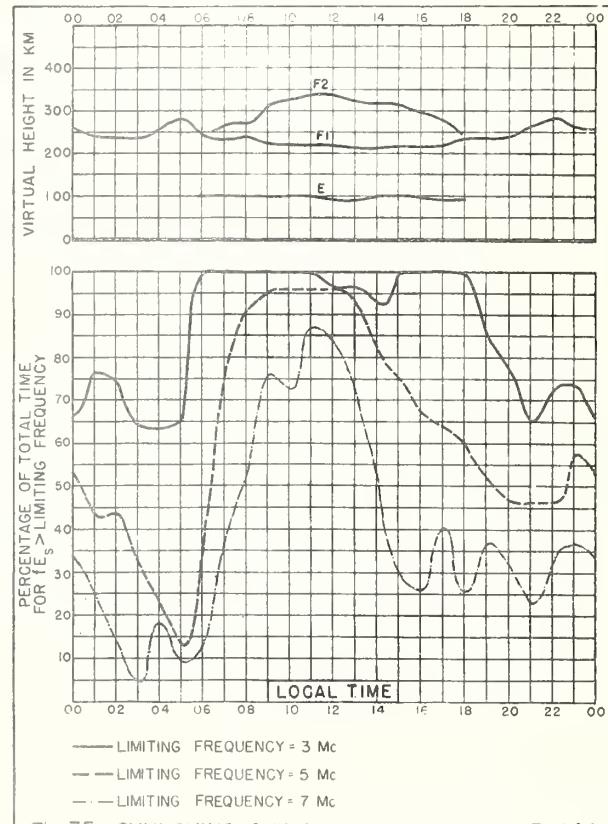


Fig. 35. CHUNGKING, CHINA JUNE 1946

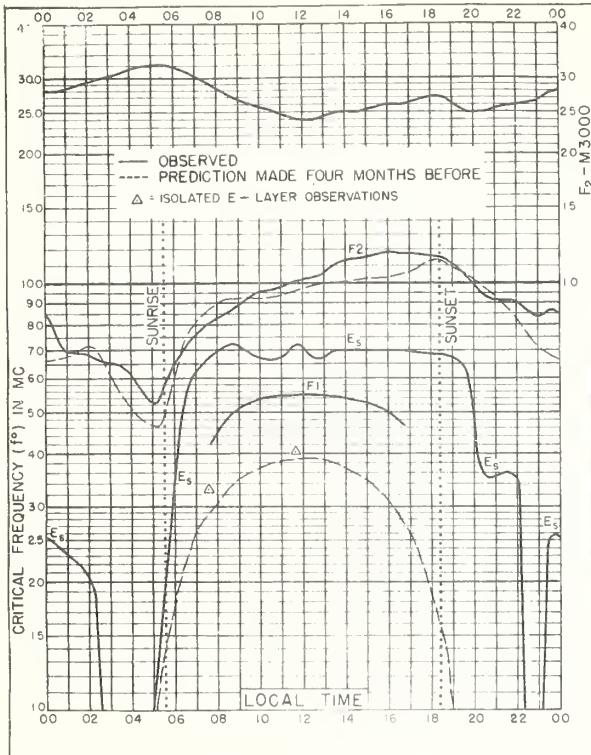


Fig. 36. GUAM I
13°5'N, 144°8'E

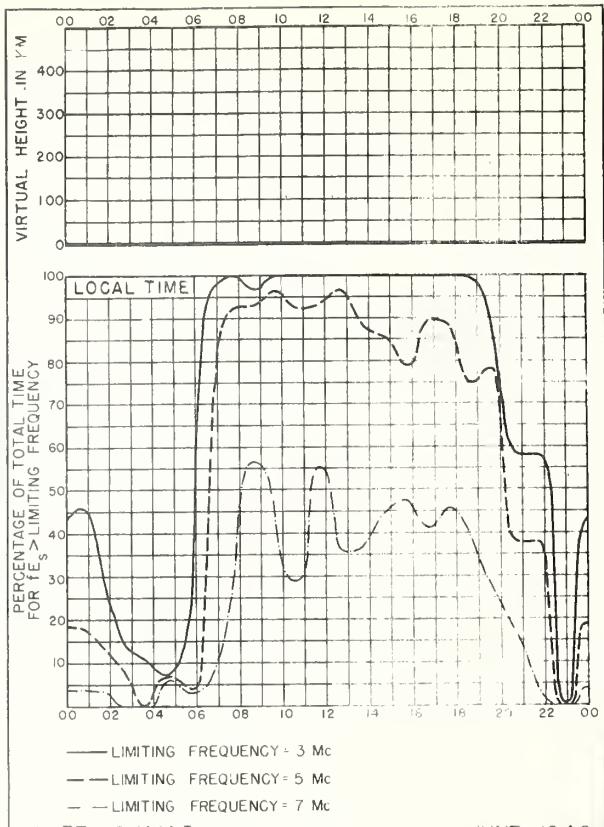


Fig. 37. GUAM I JUNE 1946

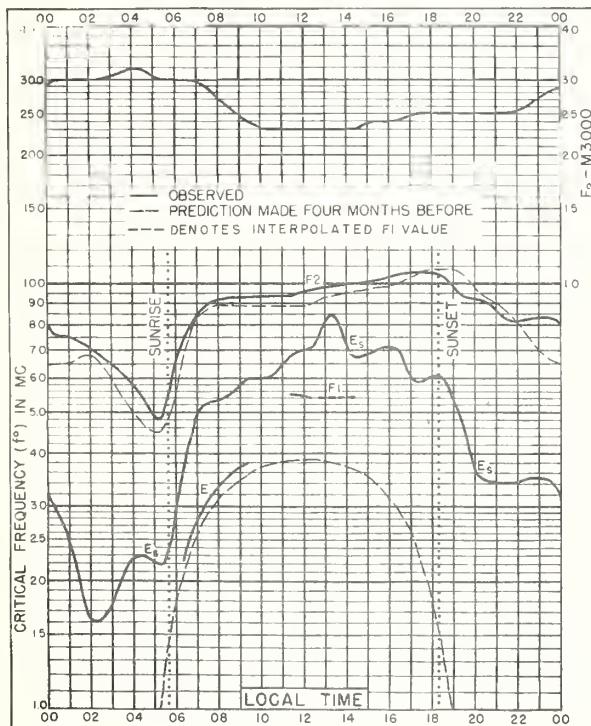


Fig. 38. LEYTE, PHILIPPINE IS.
11°0'N, 125°0'E

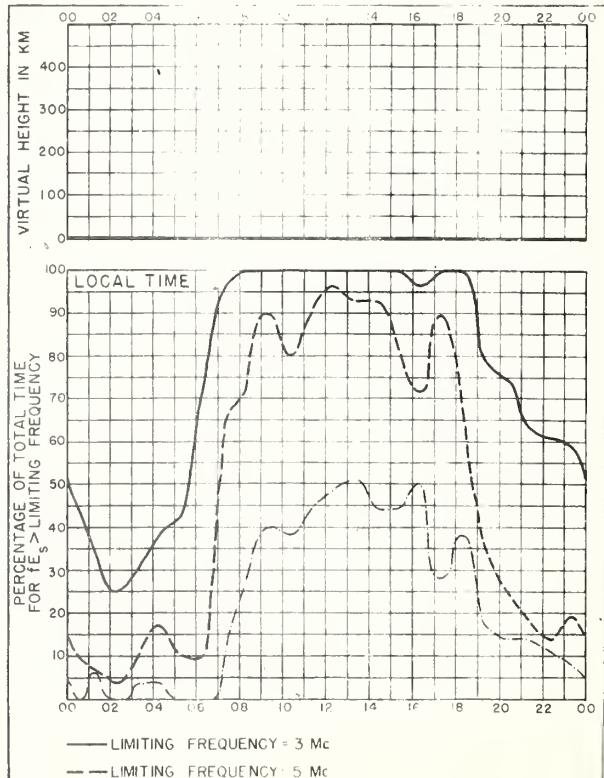


Fig. 39. LEYTE, PHILIPPINE IS. JUNE 1946

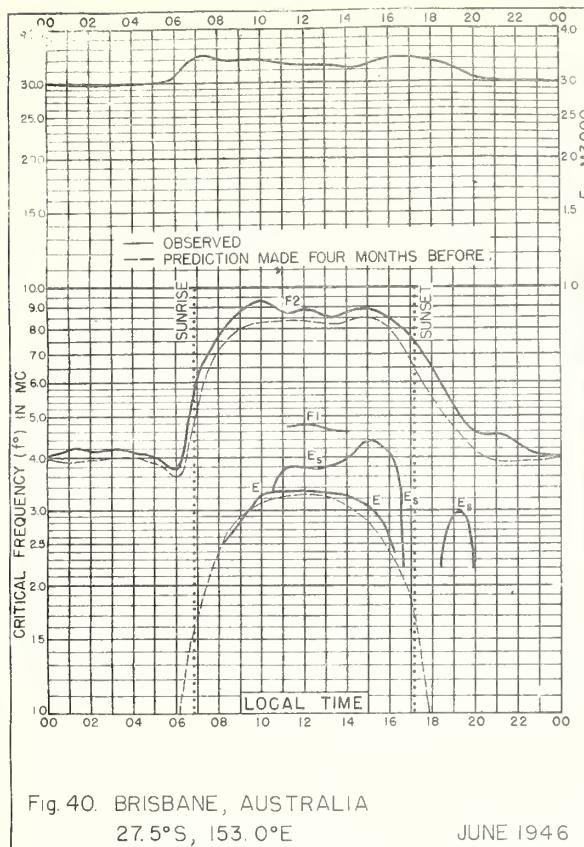


Fig. 40. BRISBANE, AUSTRALIA
27.5°S, 153.0°E JUNE 1946

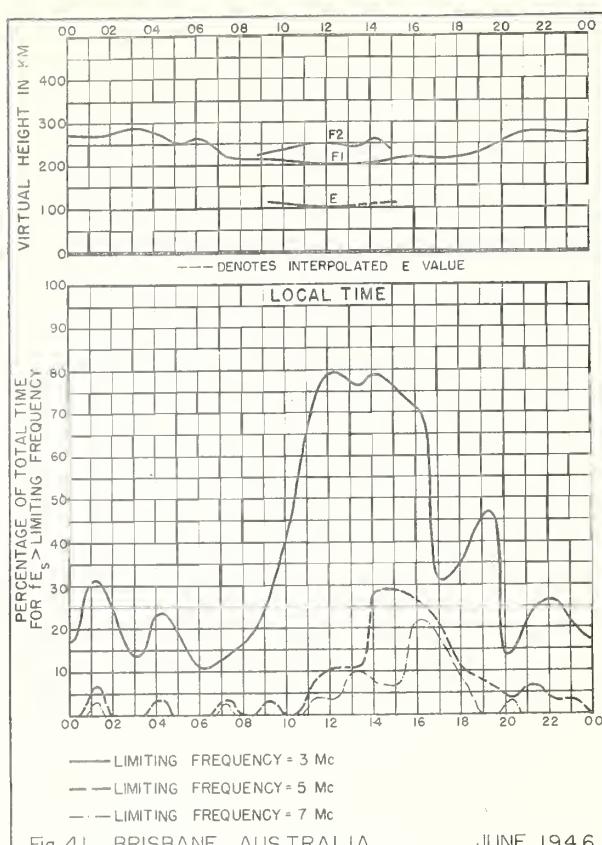


Fig. 41. BRISBANE, AUSTRALIA JUNE 1946

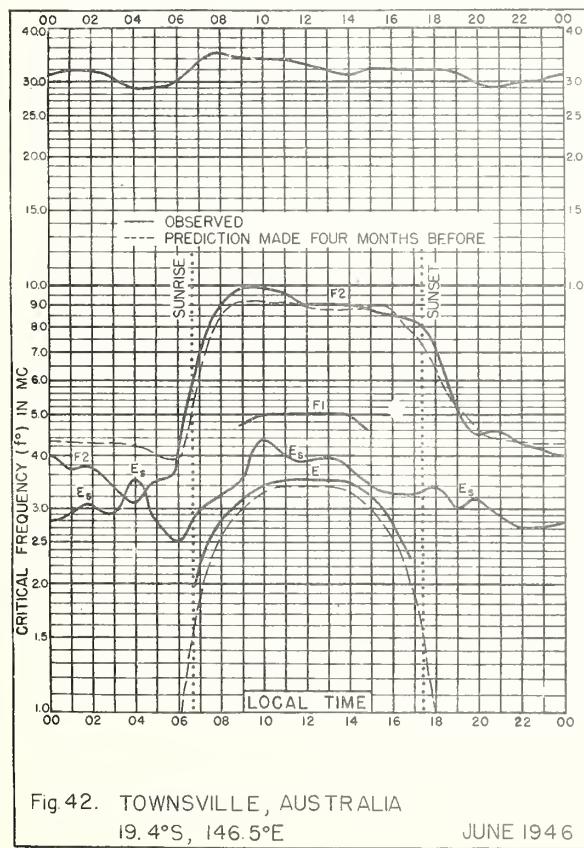


Fig. 42. TOWNSVILLE, AUSTRALIA
19.4°S, 146.5°E JUNE 1946

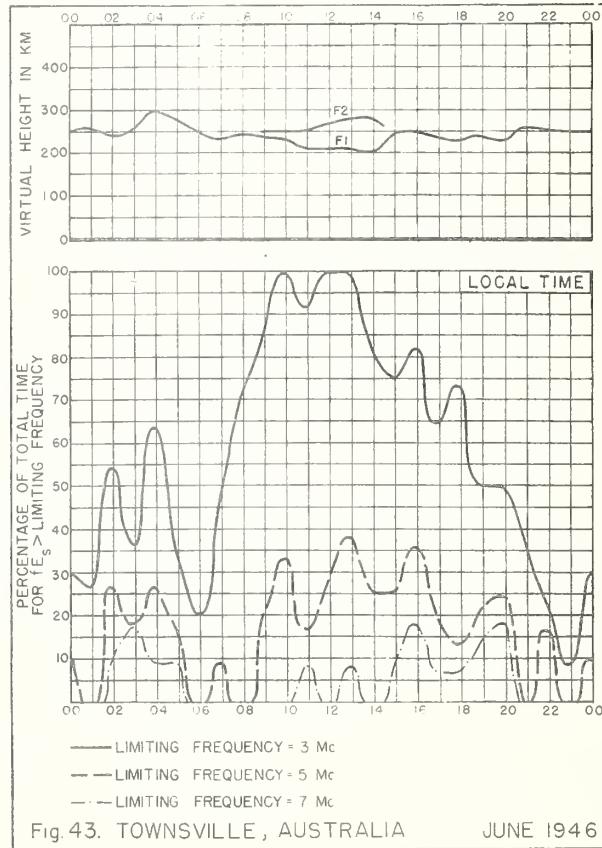


Fig. 43. TOWNSVILLE, AUSTRALIA JUNE 1946

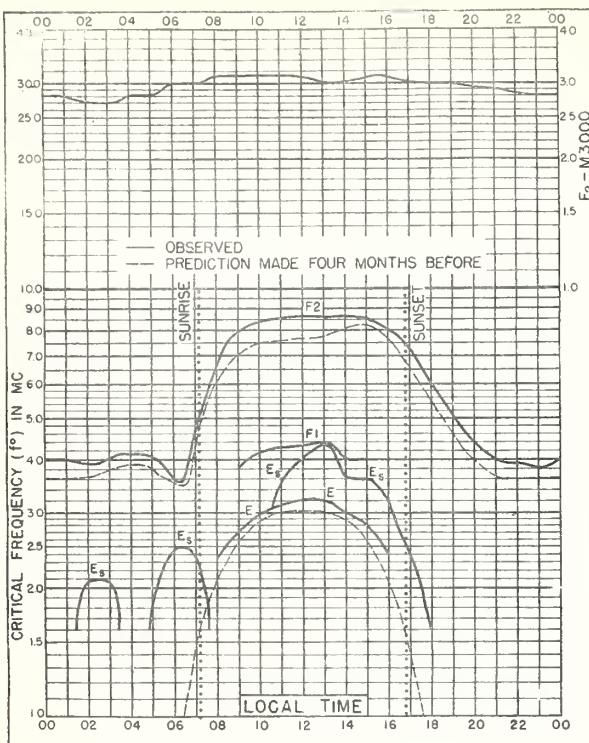


Fig. 44. CANBERRA, AUSTRALIA
35.3°S, 149.0°E JUNE 1946

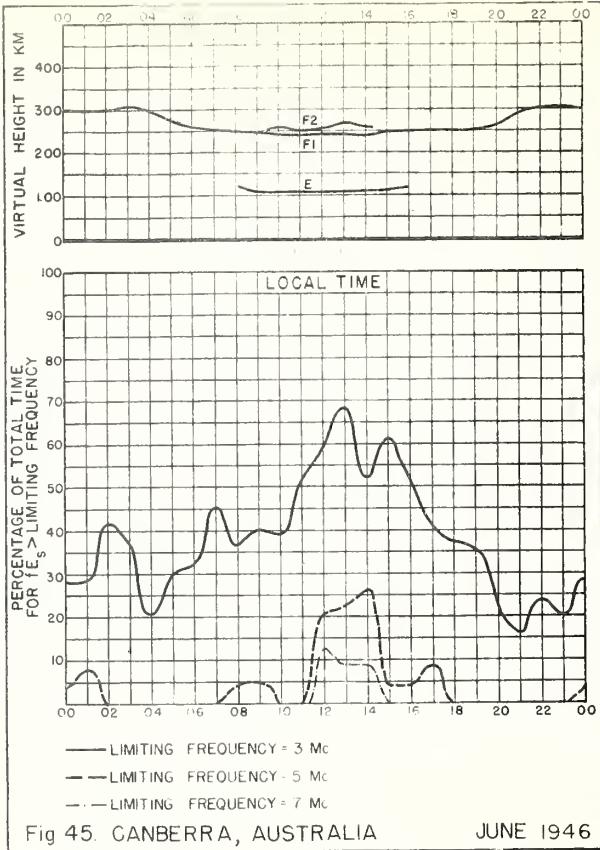


Fig. 45. CANBERRA, AUSTRALIA JUNE 1946

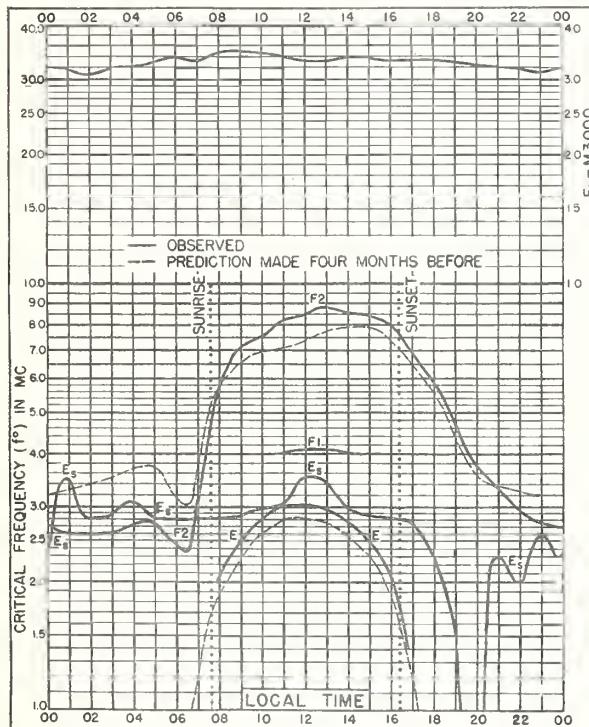


Fig. 46. HOBART, TASMANIA
42.8°S, 147.4°E JUNE 1946

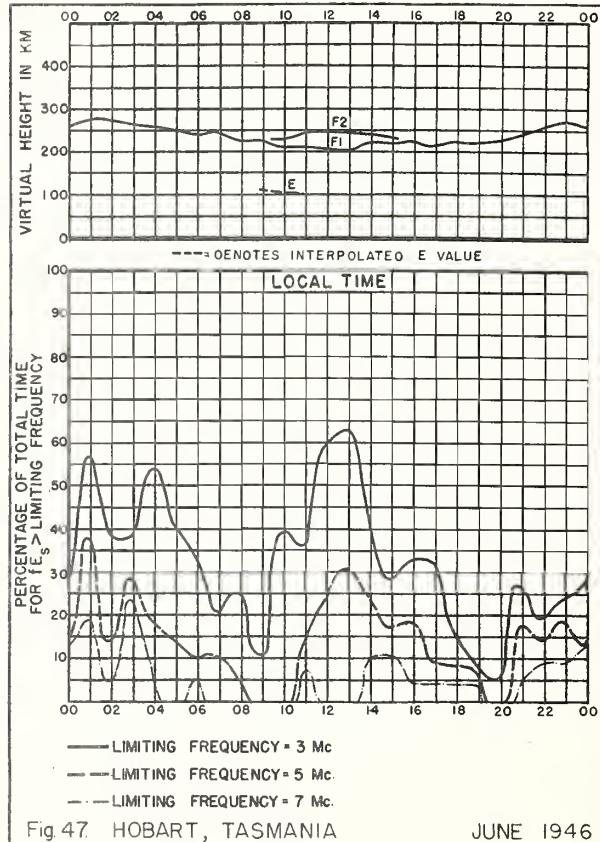


Fig. 47. HOBART, TASMANIA JUNE 1946

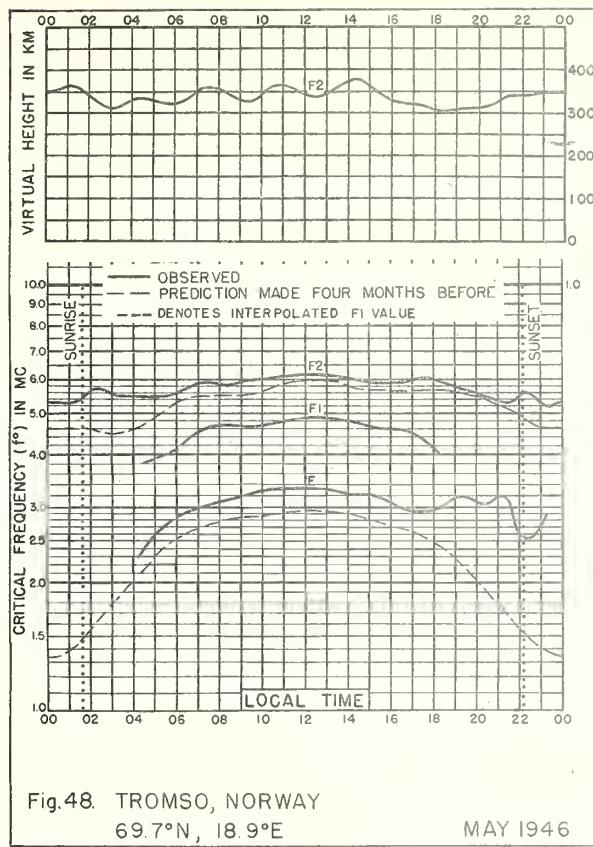


Fig. 48. TROMSO, NORWAY
69.7°N, 18.9°E MAY 1946

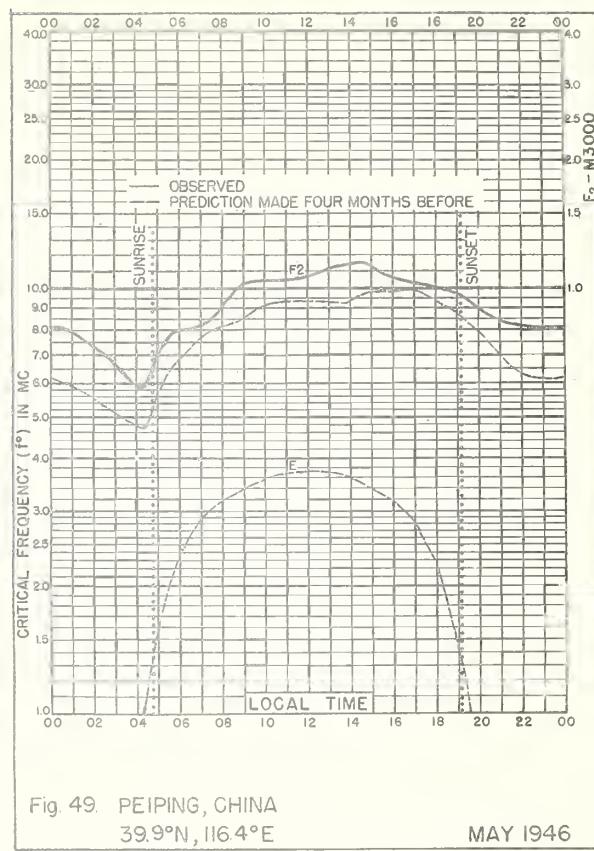


Fig. 49. PEIPING, CHINA
39.9°N, 116.4°E MAY 1946

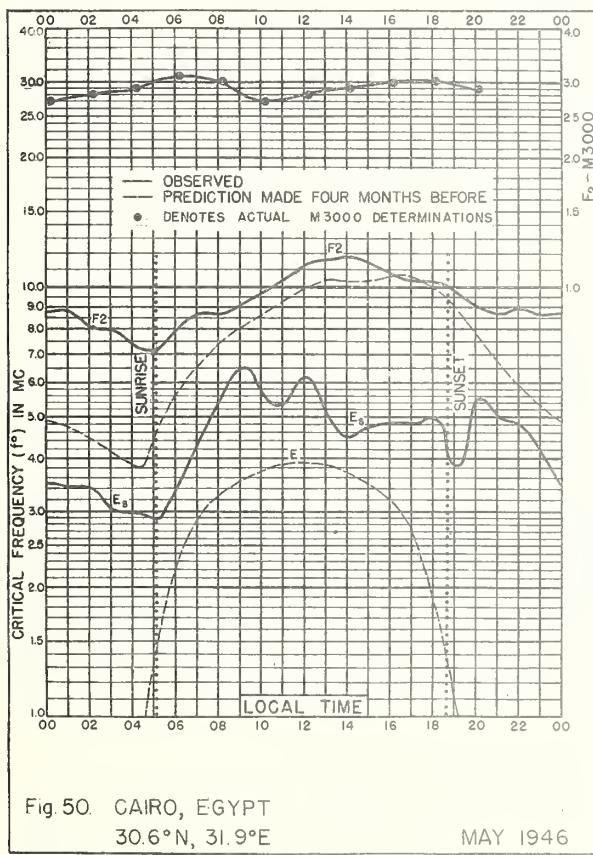


Fig. 50. CAIRO, EGYPT
30.6°N, 31.9°E MAY 1946

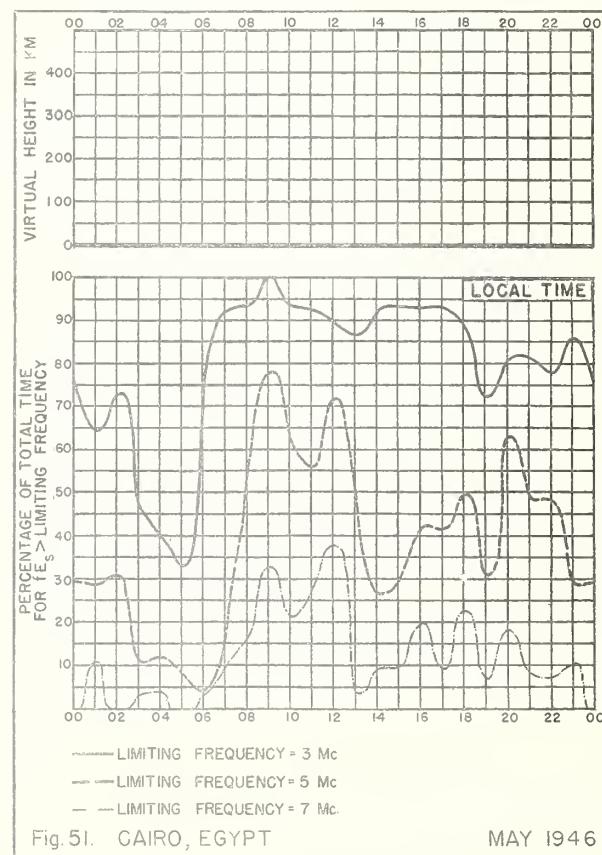


Fig. 51. CAIRO, EGYPT MAY 1946

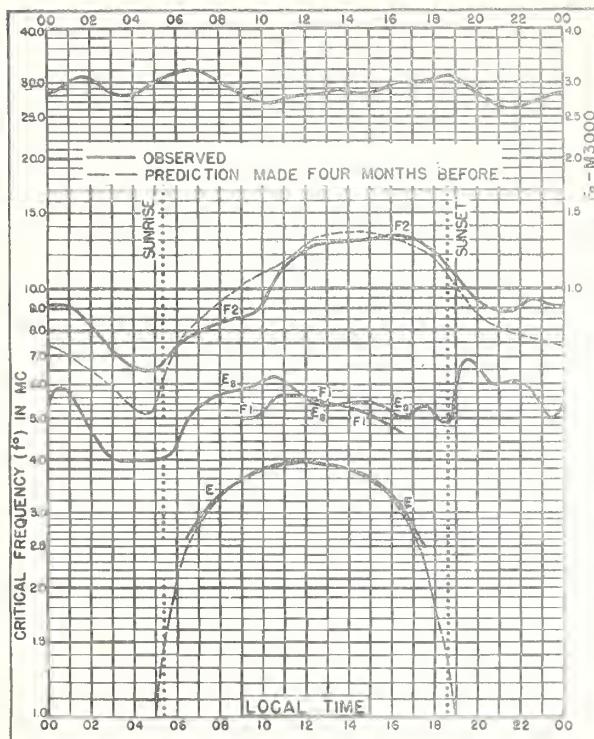


Fig 52. OKINAWA I.

26.3°N, 127.8°E

MAY 1946

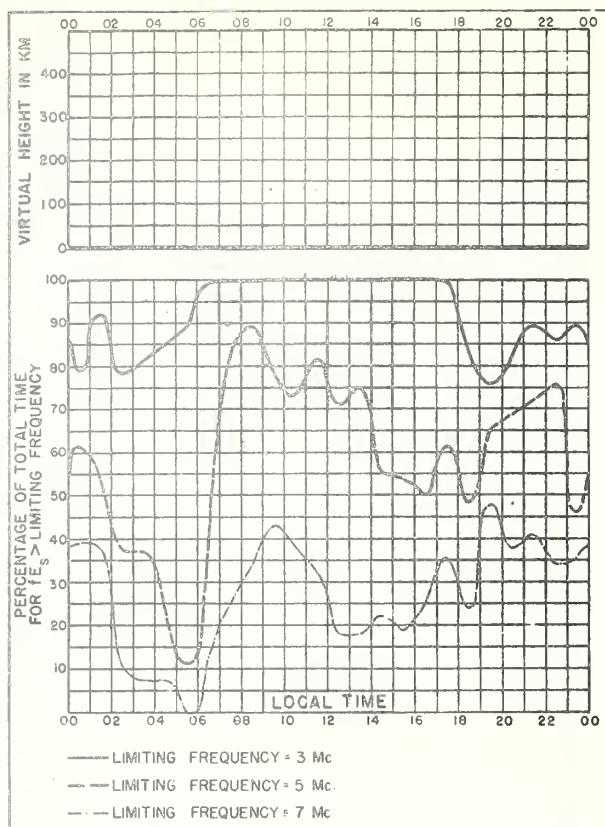


Fig 53. OKINAWA I.

MAY 1946

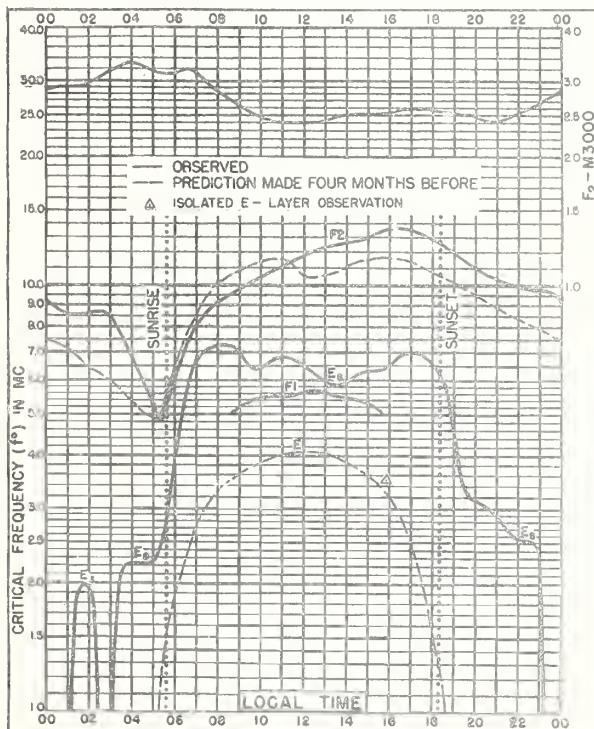


Fig 54. GUAM I.

13.5°N, 144.8°E

MAY 1946

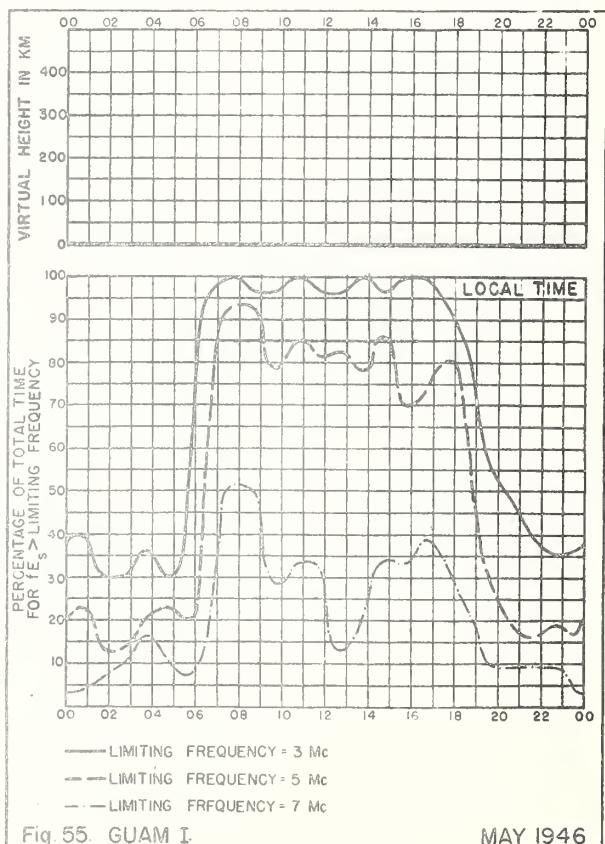


Fig 55. GUAM I.

MAY 1946

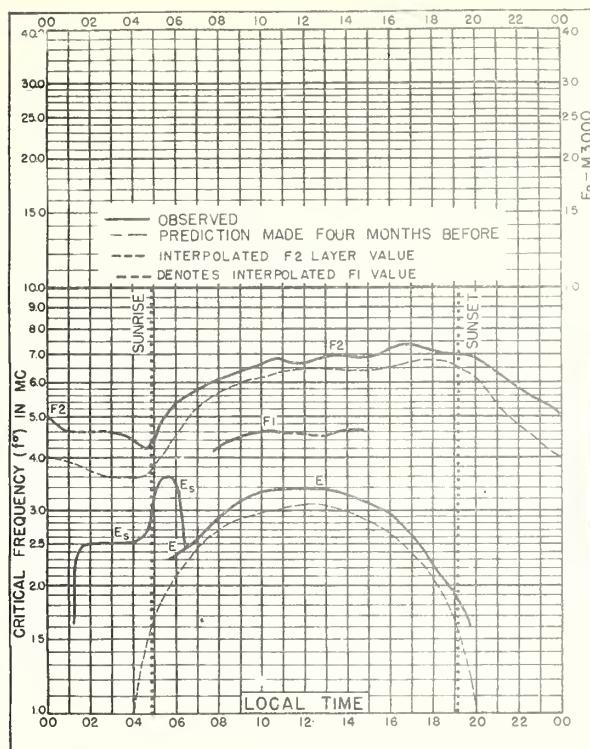


Fig. 56. OSLO, NORWAY

59.9°N, 11.0°E

APRIL 1946

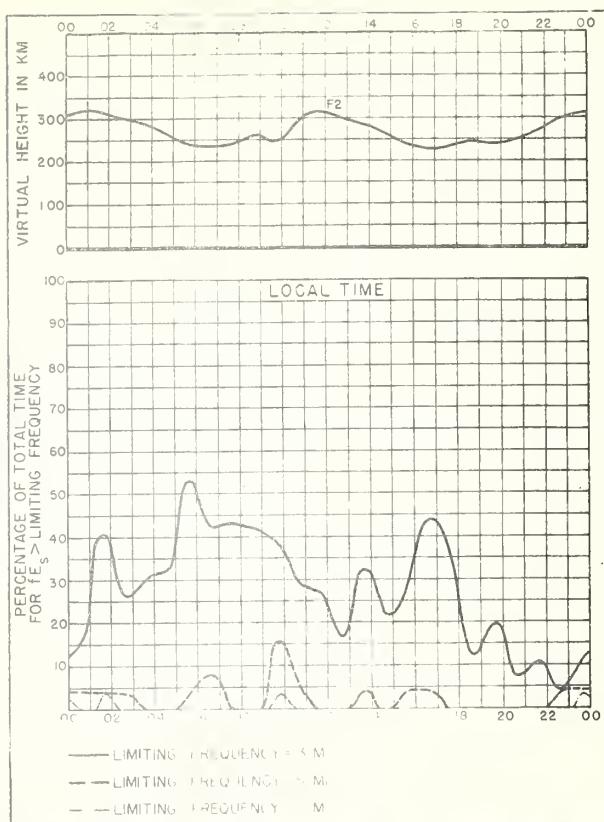


Fig. 57. OSLO, NORWAY

APRIL 1946

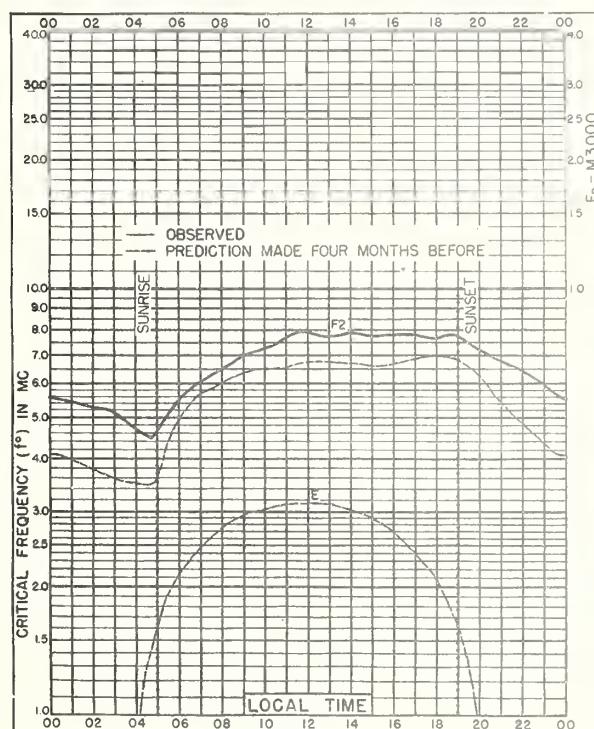


Fig. 58. BURGHEAD, SCOTLAND

57.7°N, 3.5°W

APRIL 1946

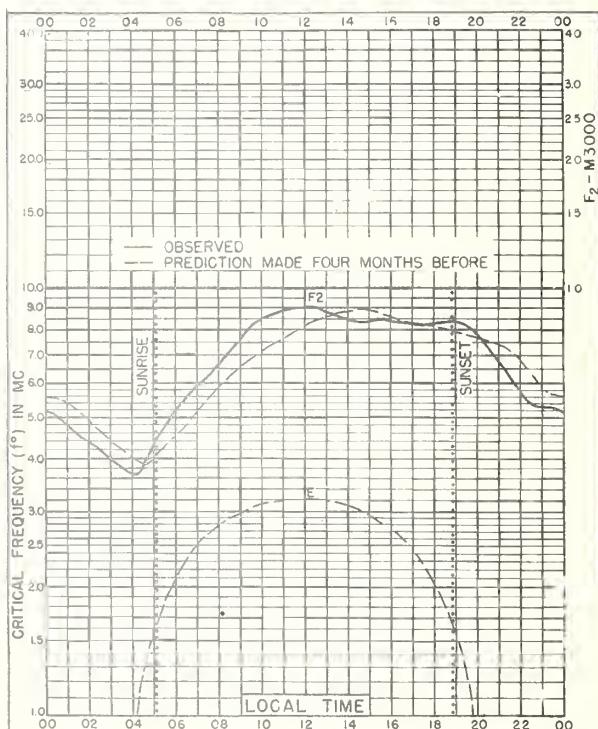
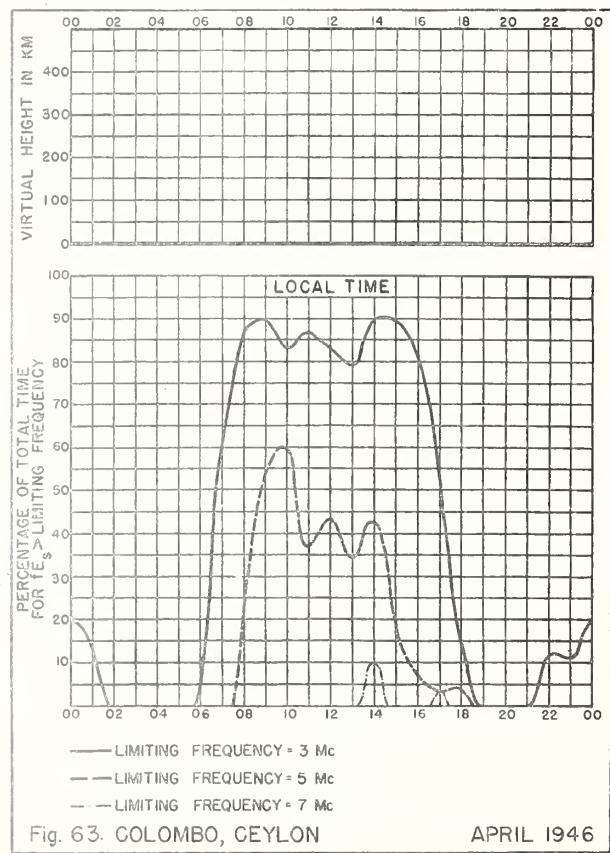
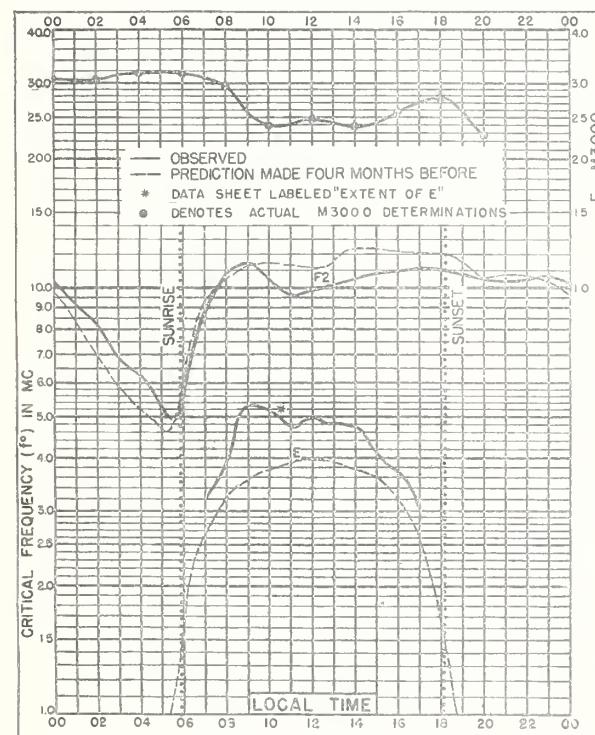
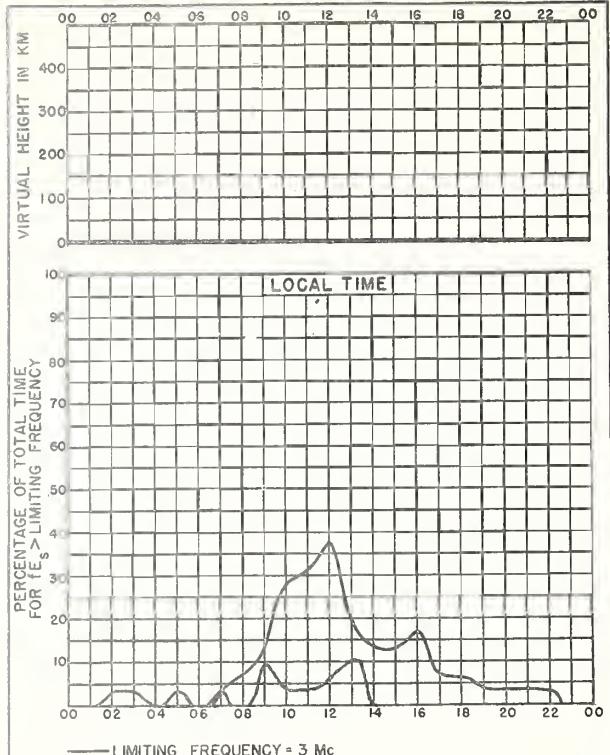
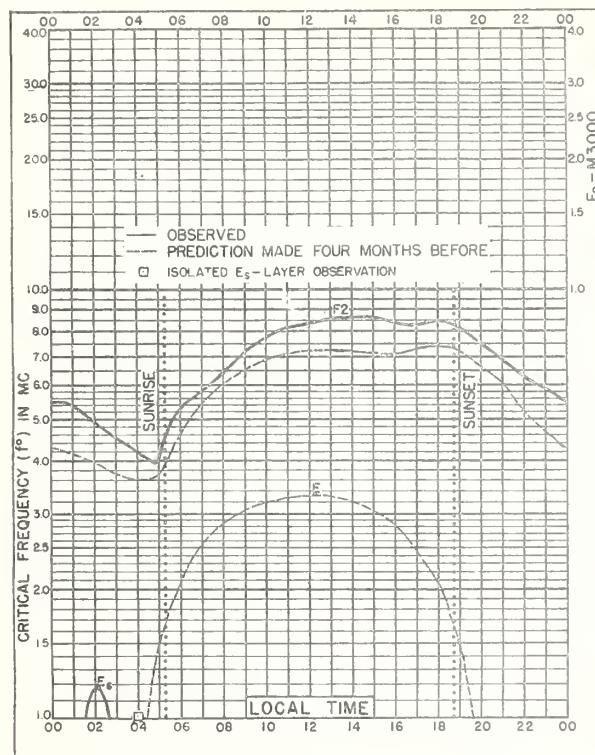


Fig. 59. MOSCOW (KRASNaja PAKHRA), U.S.S.R.

55.5°N, 37.3°E

APRIL 1946



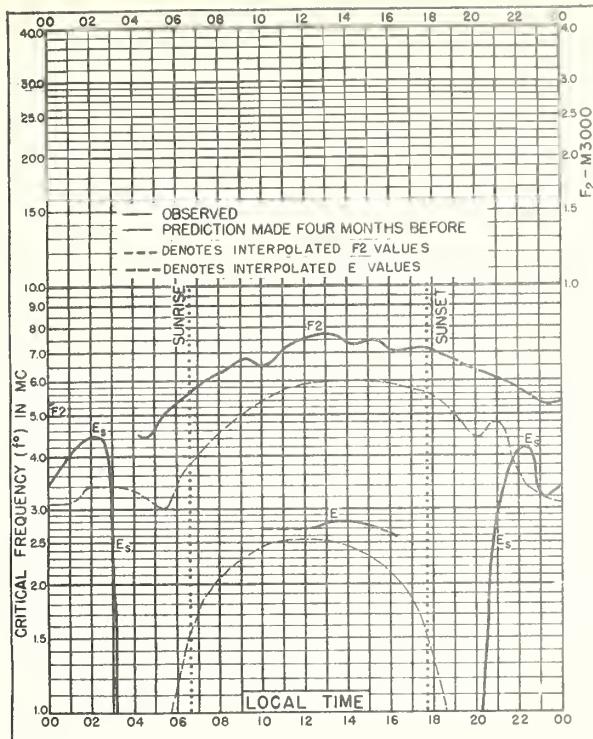


Fig. 64. TROMSO, NORWAY
69.7°N, 18.9°E

MARCH 1946

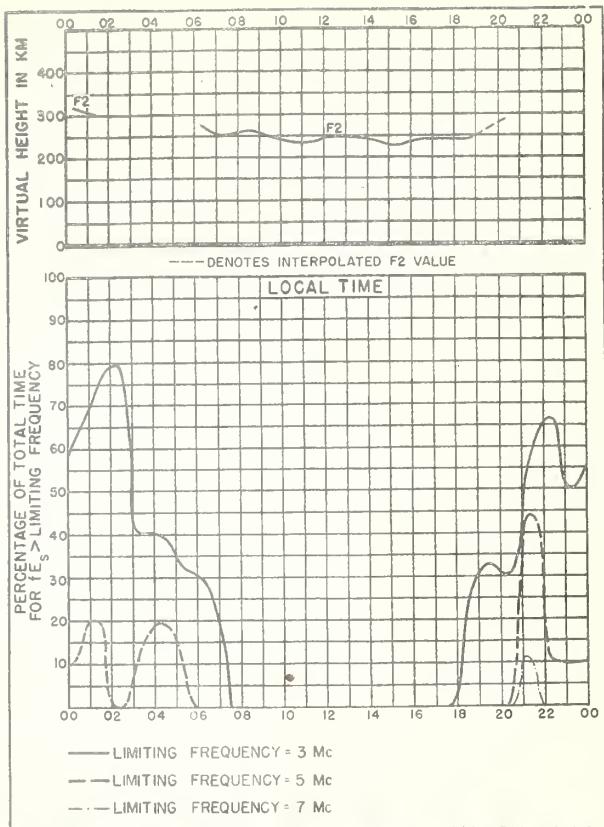


Fig. 65. TROMSO, NORWAY

MARCH 1946

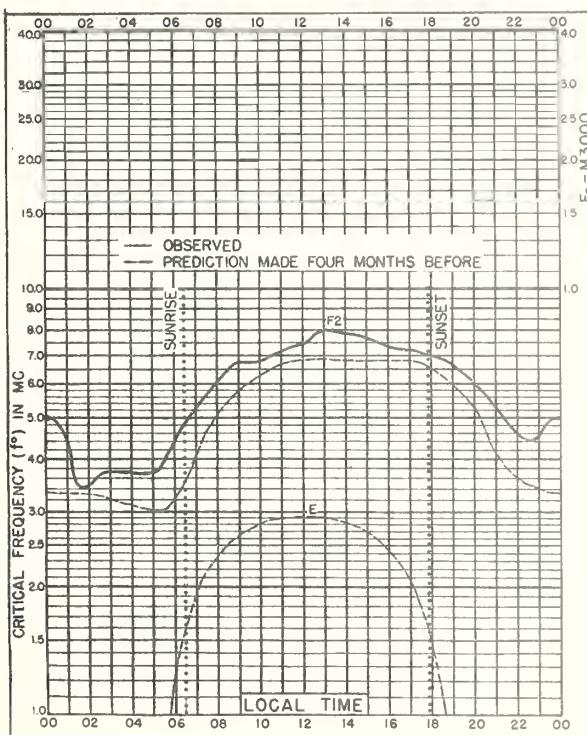


Fig. 66. BURGHEAD, SCOTLAND
57.7°N, 3.5°W

MARCH 1946

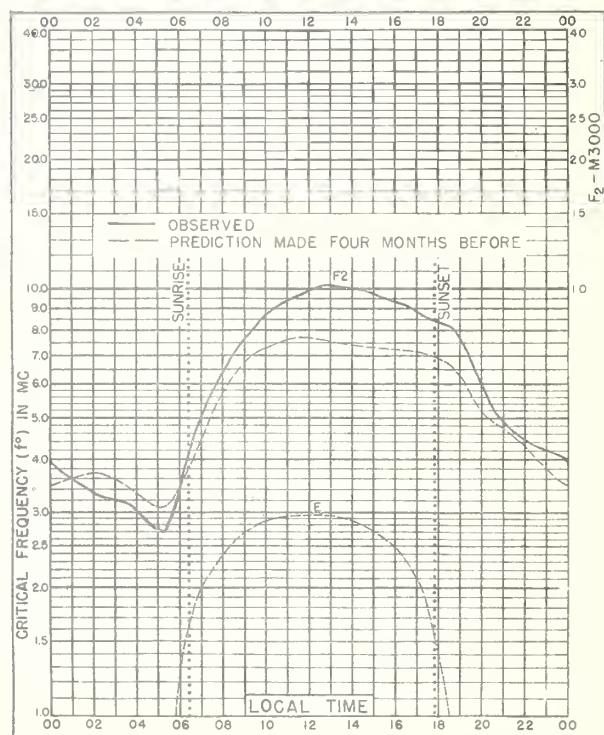


Fig. 67. MOSCOW (KRASNaja PAKHRA), U.S.S.R.
55.5°N, 37.3°E

MARCH 1946

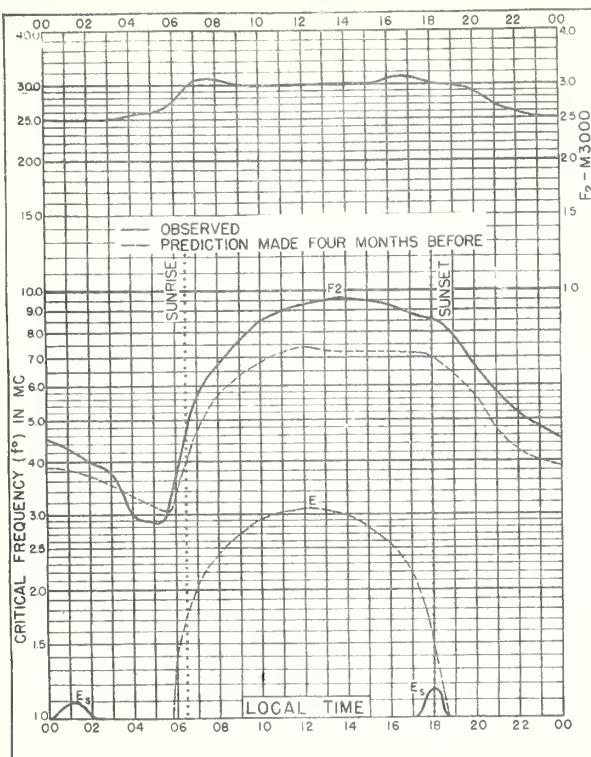


Fig. 68. SLOUGH, ENGLAND

 51.5°N , 0.6°W

MARCH 1946

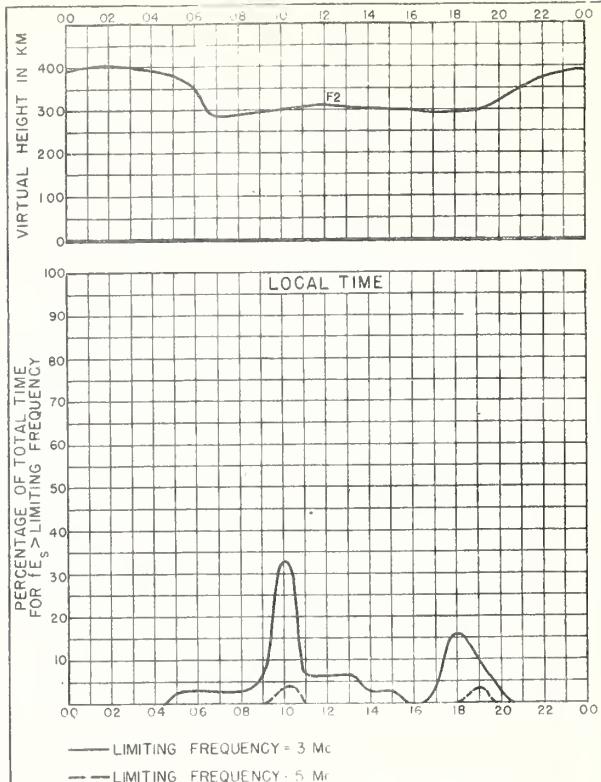


Fig. 69. SLOUGH, ENGLAND

MARCH 1946

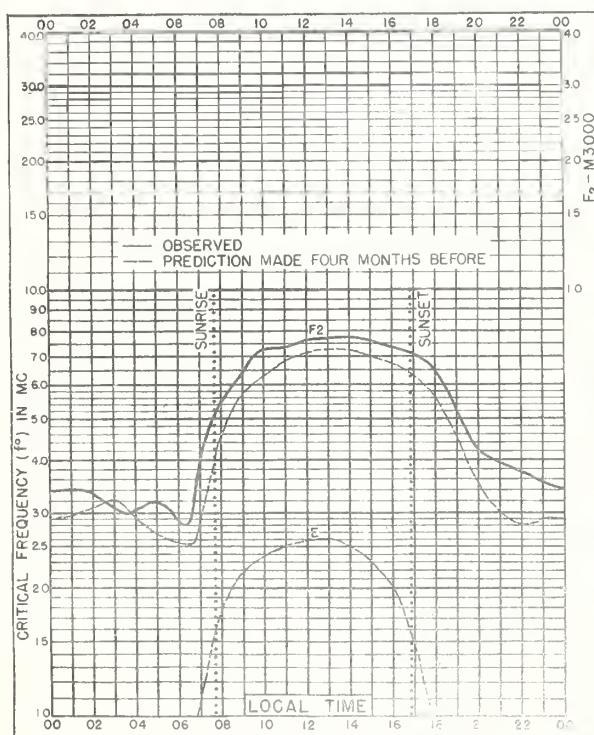


Fig. 70. BURGHEAD, SCOTLAND

 57.7°N , 3.5°W

FEBRUARY 1946

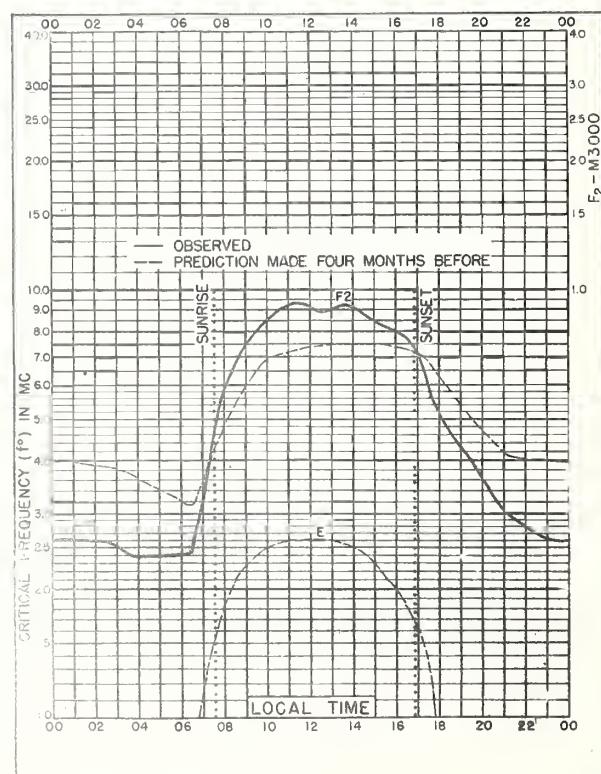


Fig. 71. MOSCOW (KRASNaja PAKHRA), U.S.S.R.

 55.5°N , 37.3°E

FEBRUARY 1946

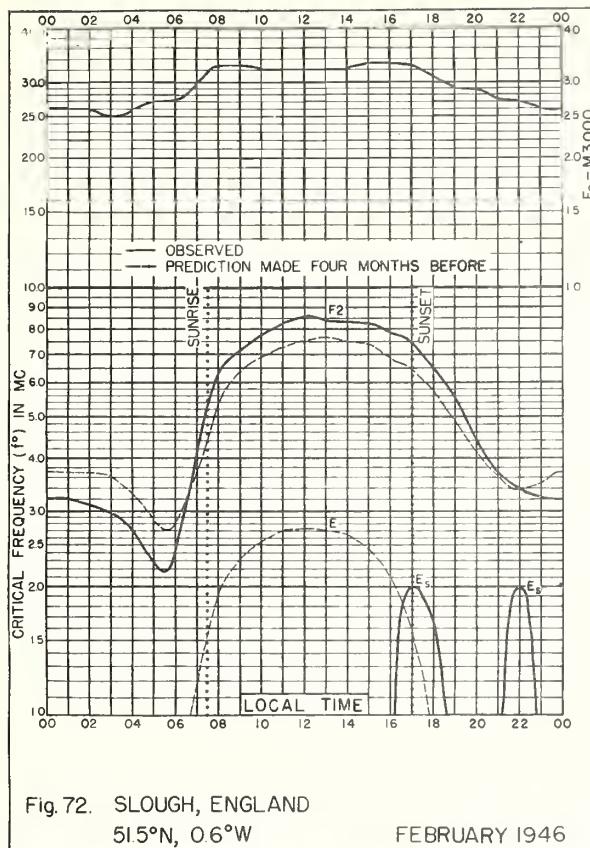


Fig. 72. SLOUGH, ENGLAND
51.5°N, 0.6°W

FEBRUARY 1946

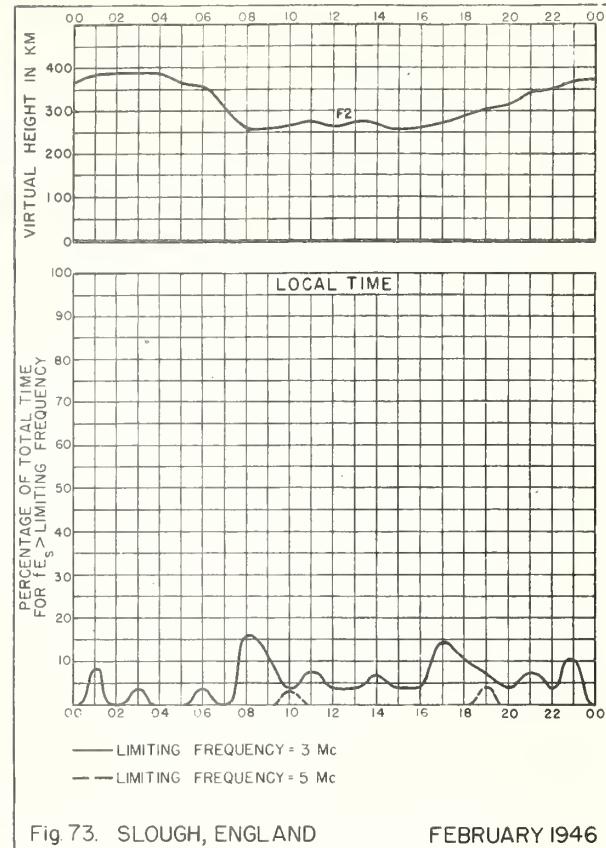


Fig. 73. SLOUGH, ENGLAND

FEBRUARY 1946

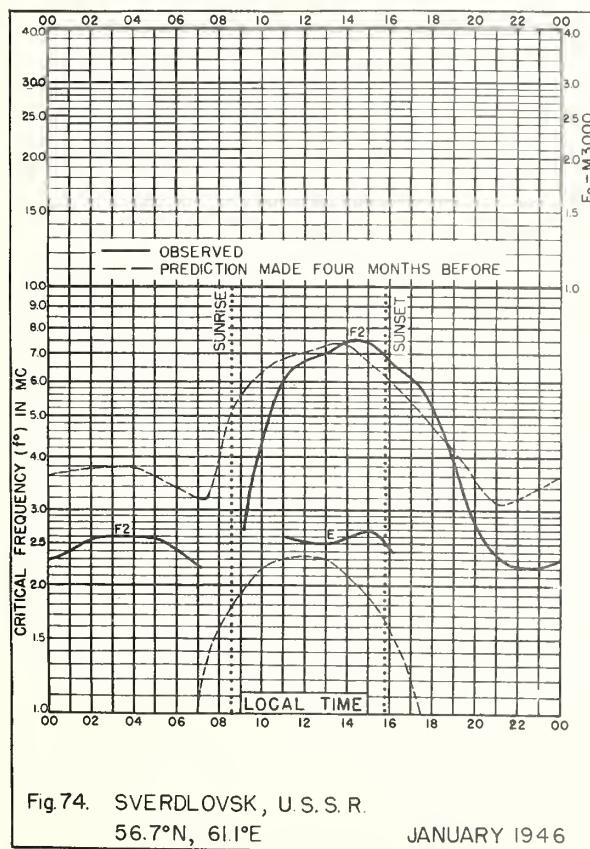


Fig. 74. SVERDLOVSK, U.S.S.R.
56.7°N, 61.1°E

JANUARY 1946

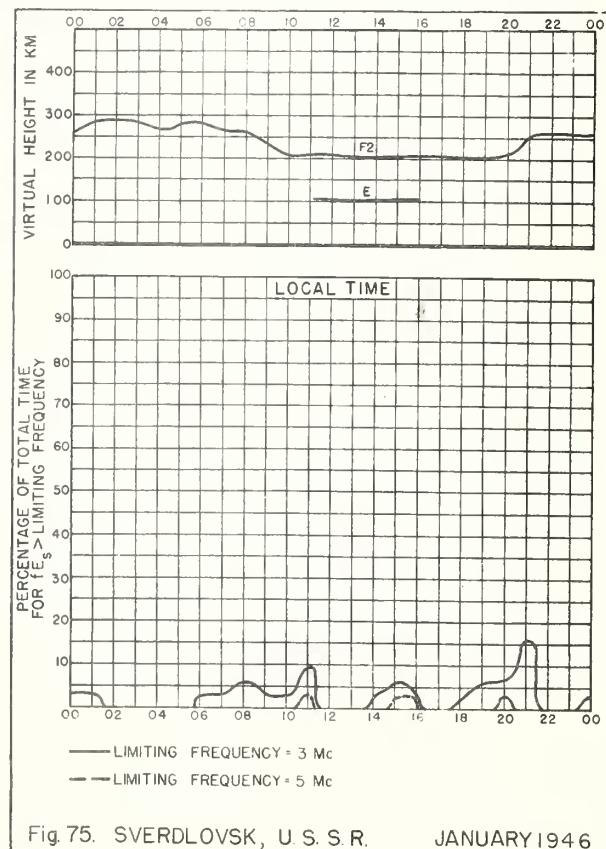


Fig. 75. SVERDLOVSK, U.S.S.R.

JANUARY 1946

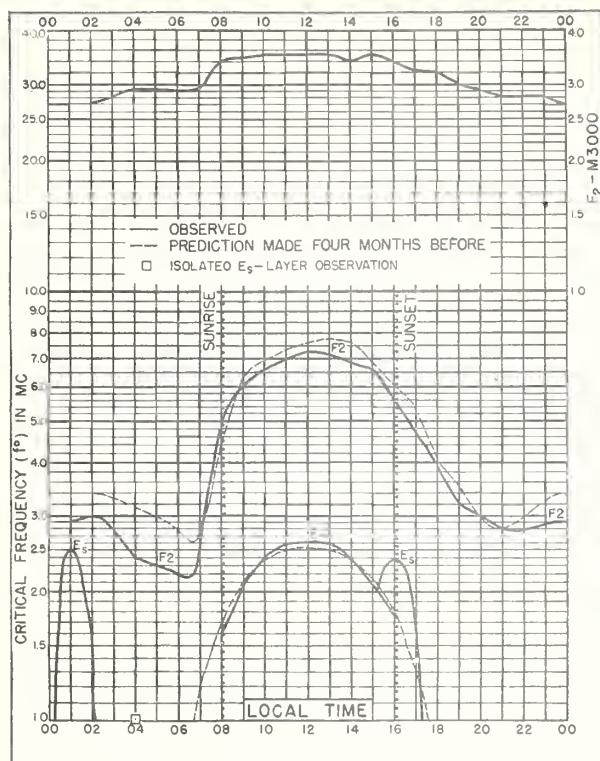


Fig. 76. SLOUGH, ENGLAND
51.5°N, 0.6°W JANUARY 1946

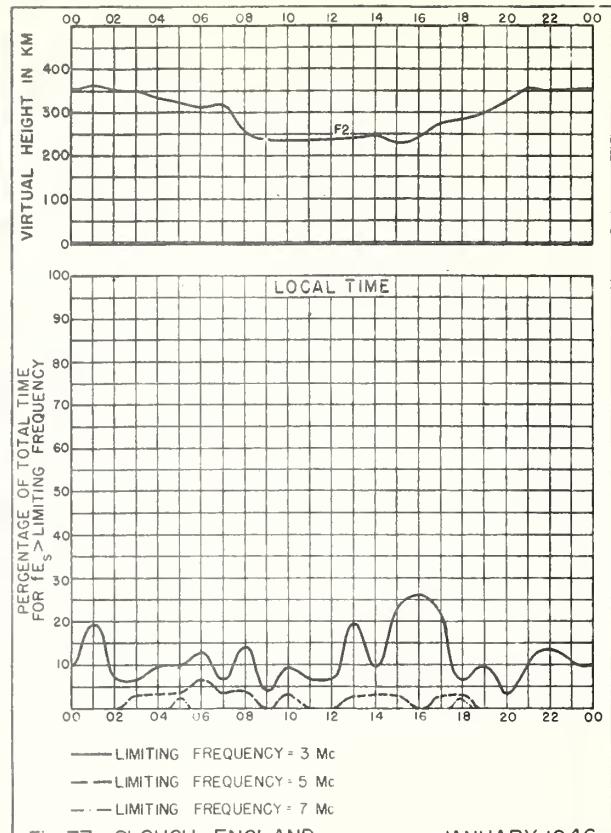


Fig. 77. SLOUGH, ENGLAND JANUARY 1946

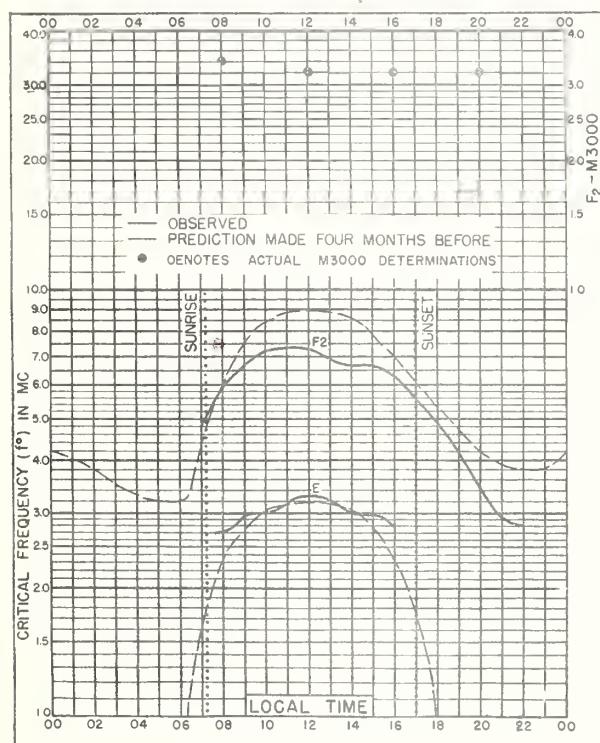


Fig. 78. PESHAWAR, INDIA
34.0°N, 71.5°E JANUARY 1946

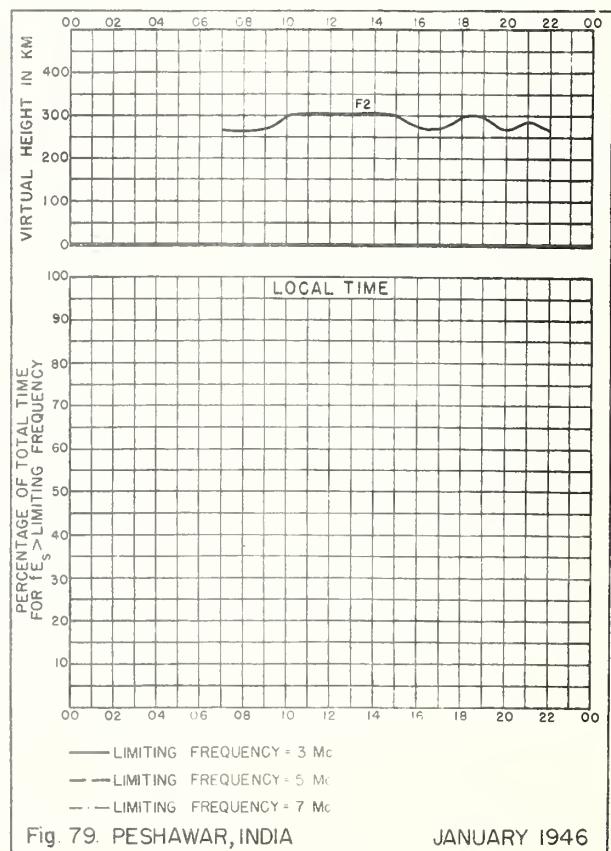


Fig. 79. PESHAWAR, INDIA JANUARY 1946

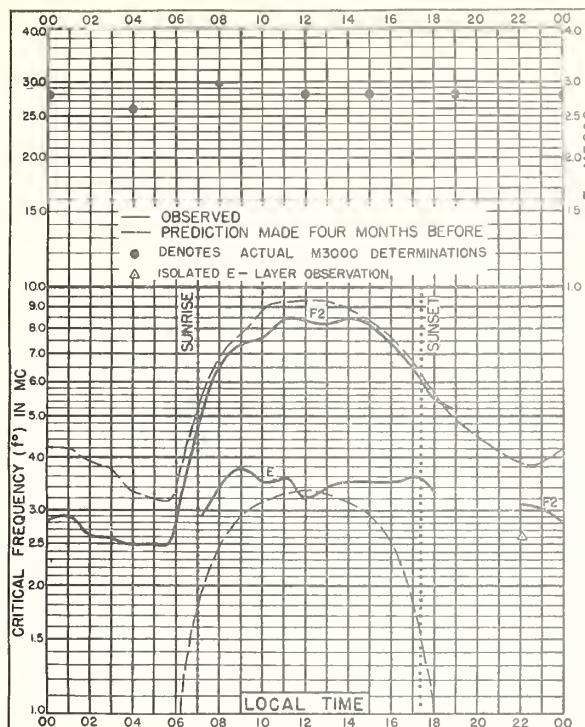


Fig. 80. DELHI, INDIA

28.6°N, 77.1°E

JANUARY 1946

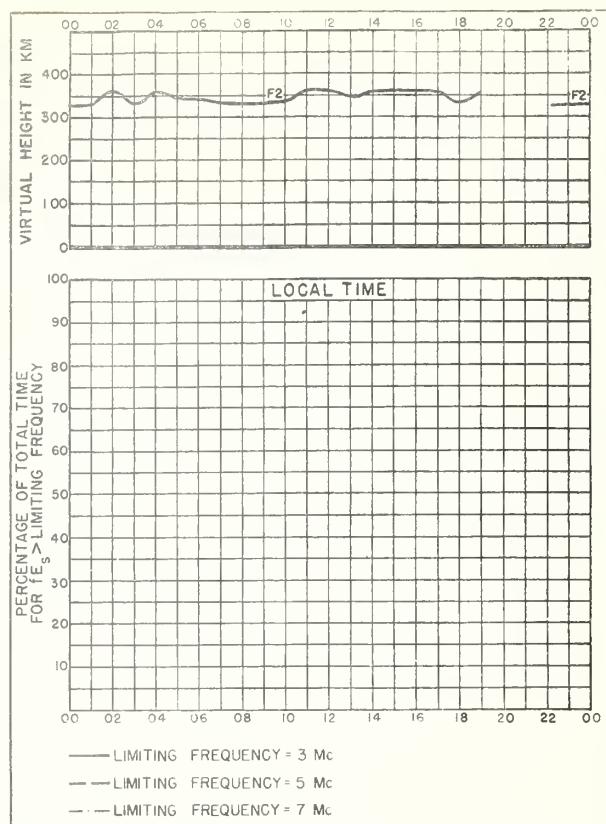


Fig. 81. DELHI, INDIA

JANUARY 1946

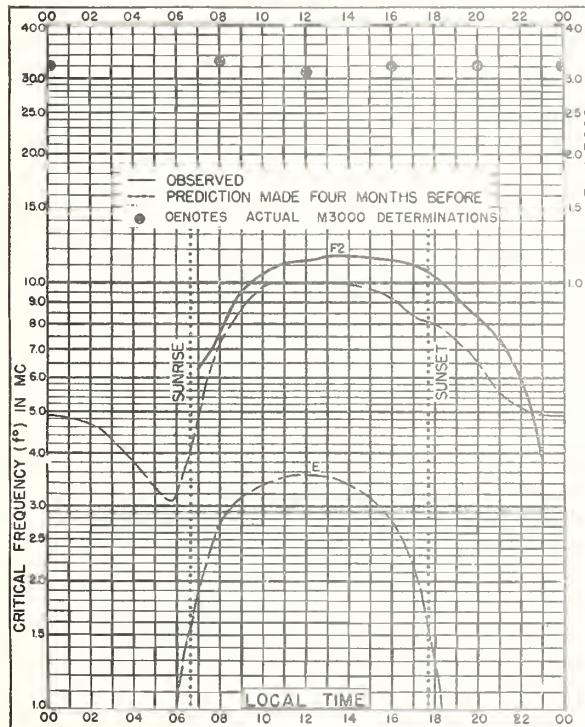


Fig. 82. BOMBAY, INDIA

19.0°N, 73.0°E

JANUARY 1946

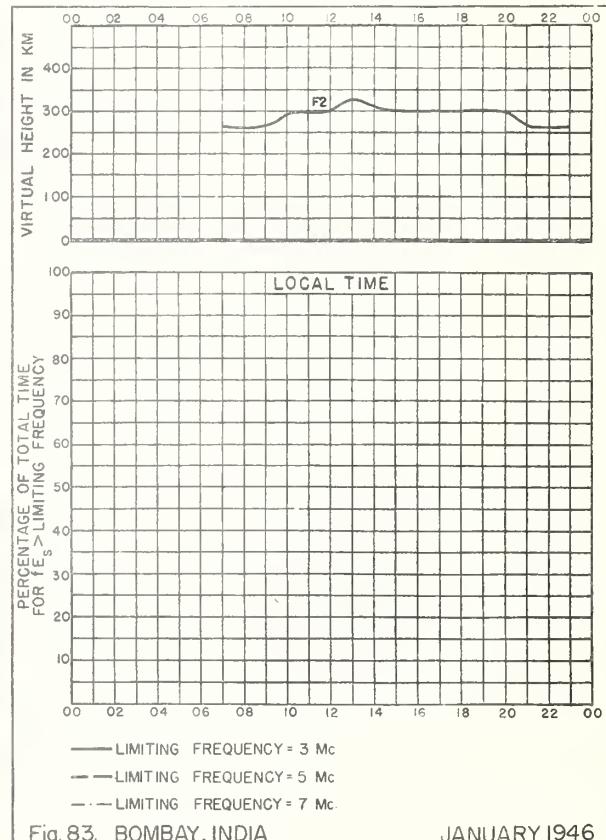
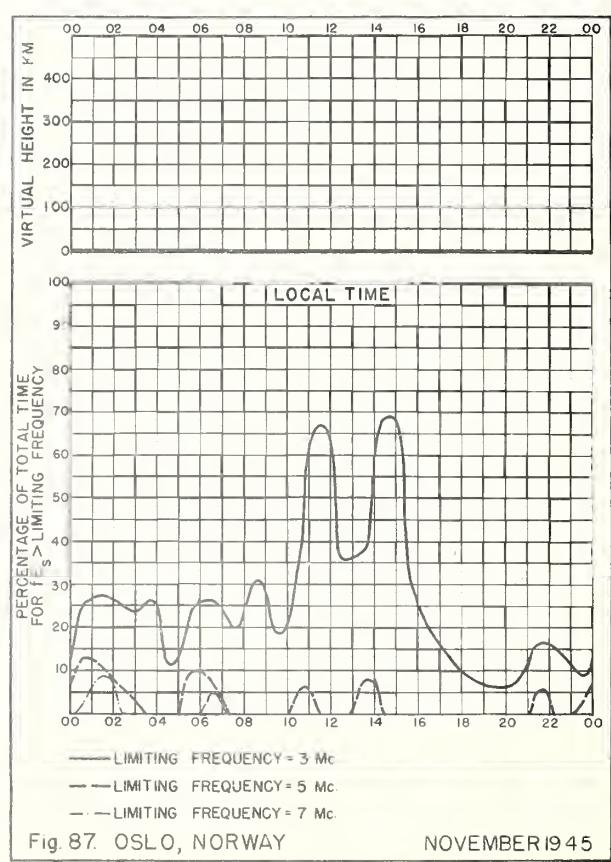
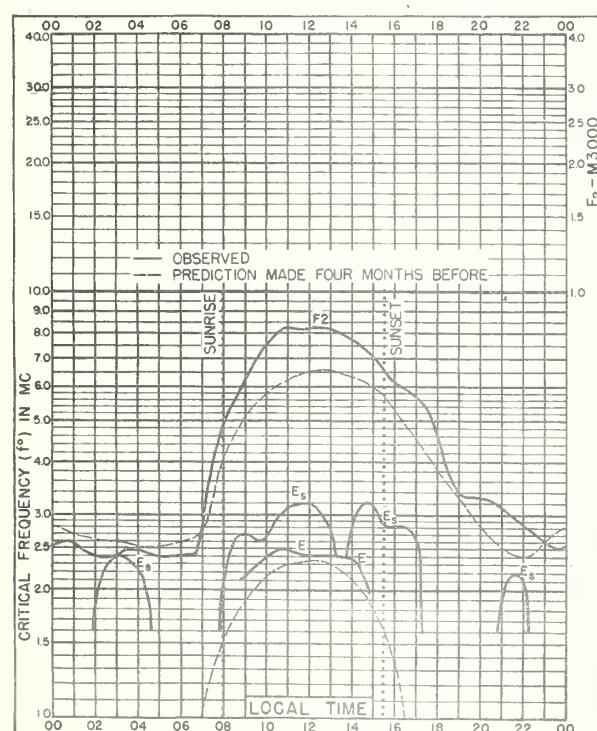
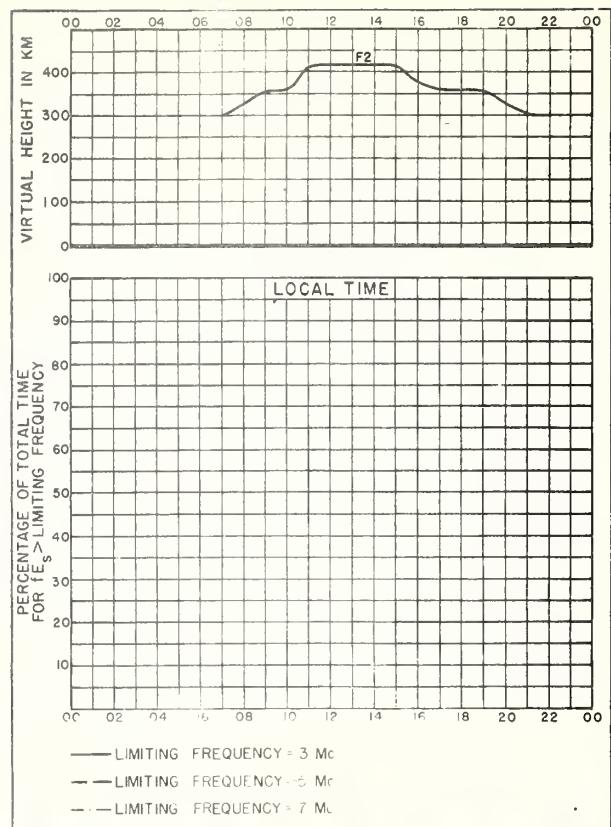
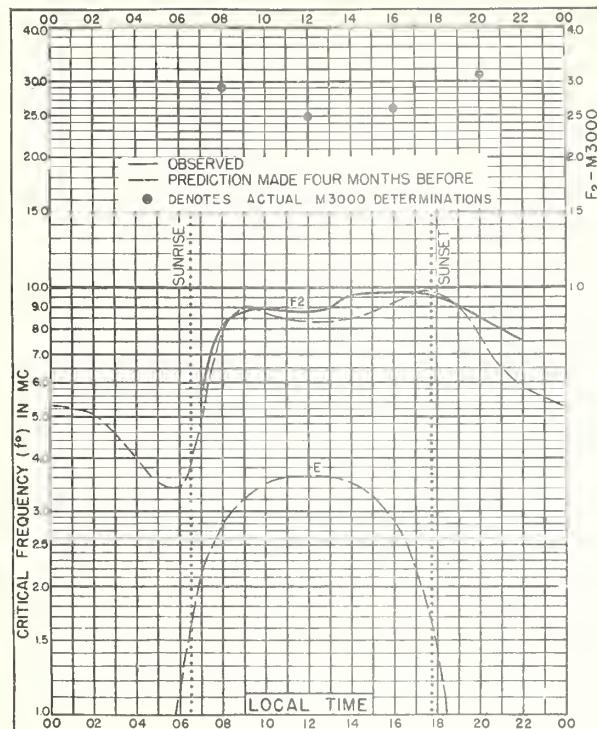


Fig. 83. BOMBAY, INDIA

JANUARY 1946



Daily:

Radio disturbance warnings, every half hour from broadcast station WWD of the National Bureau of Standards.
Telephoned and telegraphed reports of ionospheric, solar, geomagnetic and radio propagation data.

Weekly:

CRPL-J. Radio Propagation Forecast (of days most likely to be disturbed, during following month).

Semimonthly:

CRPL-Je. Semimonthly Frequency Revision Factors for CRPL Basic Radio Propagation Prediction Reports.

Monthly:

CRPL-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). CRPL-D Series now available from Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

CRPL-F. Ionospheric Data.

Bimonthly:

IRPL-G. Correlation of D.F. Errors with Ionospheric Conditions. Final issue G12, for months of May and June, 1946.

Quarterly:

*IRPL-A. Recommended Frequency Bands for Ships and Aircraft in the Atlantic and Pacific.
*IRPL-H. Frequency Guide for Operating Personnel.
Reports on Ionospheric Measurement Standards.
Reports on Microwave Measurement Standards.

Reports Issued in Print:

IRPL Radio Propagation Handbook, Part 1. (War Dept. TM 11-499; Navy Dept. DNC-13-1).

IRPL-C61. Report of the International Radio Propagation Conference, 17 April to 5 May 1944.

IRPL-R. Unscheduled reports:

- R1. Maximum Usable Frequency Graph Paper.
- 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 The Loran System.
- R7. Second Report on Experimental Studies of Ionospheric Propagation As Applied to The Loran System.
- R8. The Prediction of Usable Frequencies Over a Path of Short or Medium Length, Including the Effects of Es.
- R9. An Automatic Instantaneous Indicator of Skip Distance and MUF.
- R10. A Proposal for the Use of Rockets for the Study of the Ionosphere.
- R11. A Nomographic Method for Both Prediction and Observation Correlation of Ionosphere Characteristics.
- R12. Short Time Variations in Ionospheric Characteristics.
- R13. Ionospheric and Radio Propagation Disturbances, October 1943 Through February 1945.
- R14. A Graphical Method for Calculating Ground Reflection Coefficients.
- R15. Predicted Limits for F2-layer Radio Transmission Throughout the Solar Cycle.
- R16. Predicted F2-layer Frequencies Throughout the Solar Cycle, for Summer, Winter, and Equinox Seasons.
- R17. Japanese Ionospheric Data - 1943.
- R18. Comparison of Geomagnetic Records and North Atlantic Radio Propagation Quality Figures - October 1943 through May 1945.
- R19. Nomographic Predictions of F2-layer Frequencies Throughout the Solar Cycle, for June.
- R20. Nomographic Predictions of F2-layer Frequencies Throughout the Solar Cycle, for September.
- R21. Notes on the Preparation of Skip-Distance and MUF Charts for Use by Direction-Finder Stations. (For distances out to 4000 km.)
- R22. Nomographic Predictions of F2-layer Frequencies Throughout the Solar Cycle, for December.
- R23. Solar-Cycle Data for Correlation With Radio Propagation Phenomena.
- R24. Relations between Band Width, Pulse Shape and Usefulness of Pulses in The Loran System.
- R25. The Prediction of Solar Activity as a Basis for Predictions of Radio Propagation Phenomena.
- R26. The Ionosphere as a Measure of Solar Activity.
- R27. Relationships Between Radio Propagation Disturbance and Central Meridian Passage of Sunspots Grouped by Distance From Center of Disc.
- R28. Nomographic Predictions of F2-layer Frequencies Throughout the Solar Cycle for January.
- R29. Revised Classification of Radio Subjects Used in National Bureau of Standards (U.S. Letter Circular LC-514 superseding circular C555).
- R30. Disturbance Rating in Values of IRPL Quality - Figure Scale From A. T. & T. Co. Transmission Disturbance Reports to Replace T.D. Figures as Reported.
- R31. North Atlantic Radio Propagation Disturbances, October 1943 through October 1945.
- R32. Nomographic Predictions of F2-layer Frequencies Throughout the Solar Cycle, for February.
- R33. Ionospheric Data on File at IRPL.
- R34. The Interpretation of Recorded Values of fEs.
- R35. Comparison of Percentage of Total Time of Occurrence of Second-Multiple Es Reflections and That of fEs in Excess of 3 Mcs.

IRPL-T. Reports on Tropospheric Propagation.

T1. Radar Operation and Weather. (Superseded by JAMP 101.)

T2. Radar Coverage and Weather. (Superseded by JAMP 102.)

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