PART A

IONOSPHERIC DATA

ISSUED
NOVEMBER 1962

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

CRPL-F 219
PART A

NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
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CONTENTS

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The CRPL-F series bulletins are issued as part of the responsibility of the Central Radio Propagation Laboratory for the exchange and dissemination of ionospheric and related geophysical data. While originally a by-product of the collection of data by the CRPL for use in radio propagation studies, the CRPL-F series bulletins, Part A, "Ionospheric Data," and Part B, "Solar-Geophysical Data," have provided useful service by collecting and making available a wide variety of data in convenient form for use in research, not only on radio propagation and the ionosphere, but also on a wide variety of geophysical problems. Beginning with CRPL-F 211, Part A, "Ionospheric Data," a number of changes have been made in the tables of ionospheric data which, by providing more information, should increase their usefulness.

The current form of the tables of ionospheric data provides the monthly medians and, in addition, the number of values entering into median determination (count) for all ionospheric characteristics listed. Also, the upper and lower quartile values, indicated by UQ and LQ in the tables, are listed for foF2, h'F2, h'F, and (M3000)F2. Quartile values are not listed for the other characteristics because of space limitations. The tables are prepared by IBM machine methods, which, by improving the speed and efficiency of preparation, permit earlier publication of the data.

Graphs of critical frequencies and (M3000)F2 will continue to appear. Graphs of percentage of time of occurrence for fEs and virtual heights of the regular ionospheric layers are no longer included. This change was necessary to provide space for the enlarged tables. Data on percentage of time of occurrence of fEs above 3, 5, and 7 Mc are still available from the CRPL and the IGY World Data Center A for Airglow and Ionosphere.

For many years, the tables of ionospheric data appearing in the F-series, Part A, listed values of medians recomputed at CRPL. While this practice enforced a certain uniformity, it was subject to some valid criticism for tampering with original data. The tables and graphs now show the ionospheric data just as they are provided by the originating laboratory. Responsibility for the accuracy and reliability of the data now rests entirely with the originator.

Gaps in the tables when data normally might be expected indicate the data were not provided by the originator. Following the recommendation of the World-Wide Soundings Committee, only values of median foEs are listed. In the few cases where fEs is still reported instead of foEs, the data will not be printed. Data will appear in the F-series, Part A, only when the complete daily-hourly tabulations have been received by the CRPL or the IGY World Data Center A for Airglow and Ionosphere.

Information on symbols, terminology, and conventions may be found in the "URSI Handbook of Ionogram Interpretation and Reduction, of the World-Wide Soundings Committee," edited by W. R. Piggott and K. Rawer (Elsevier, 1961), which supersedes previous documents. A list of symbols is available from CRPL on request.

The following table contains the latest available information on smoothed observed Zurich sunspot numbers, beginning with the minimum of April 1954. Final numbers are listed through June 1961, the succeeding values being based on provisional data.

Smoothed Observed Zurich Sunspot Number

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1954				3	4	4	5	7	8	8	9	12
1955	14	16	19	23	29	35	40	46	55	64	73	81
1956	89	98	109	119	127	137	146	150	151	156	160	164
1957	170	172	174	181	186	188	191	194	197	200	201	200
1958	199	201	201	197	191	187	185	185	184	182	181	180
1959	179	177	174	169	165	161	156	151	146	141	137	132
1960	129	125	122	120	117	114	109	102	98	93	88	84
1961	80	75	69	64	60	56	53	52	52	51	50	48
1962	44	41	39	38								

Units of Ionospheric Data Tables

foF2, foEs - - - Tenths of a megacycle
foF1, FoE - - - Hundredths of a megacycle
h'F2, h'F, h'E - Kilometers
(M3000)F2 - - - Hundredths

NOTE: Occasionally, when the median falls between two of the observed values, the median is carried an extra decimal place beyond these units. Those cases are easily identifiable by the extra digit appearing to the right of the number, in a column usually left blank.

MED - Median
CNT - Count
UQ - Upper Quartile
LQ - Lower Quartile

WORLD-WIDE SOURCES OF IONOSPHERIC DATA

The ionospheric data given here in tables 1 to 100 and figures 1 to 100 were assembled by the Central Radio Propagation Laboratory for analysis and correlation, incidental to CRPL prediction of radio propagation conditions. The data are median values unless otherwise indicated. The following are the sources of the data in this issue:

Central African Institute for Scientific Research:
Lwiro, Congo

Republica Argentina, Ministerio de Marina:
Trelew, Argentina

Commonwealth of Australia, Ionospheric Prediction Service of the Commonwealth Observatory:
Mawson
Wilkes Station, Antarctica

University of Graz:
Graz, Austria

Escola Politecnica, University of Sao Paulo:
Sao Paulo, Brazil

British Department of Scientific and Industrial Research, Radio Research Board:
Port Lockroy

Defence Research Board, Canada:
Winnipeg, Canada

Czechoslovak Academy of Sciences:
Pruhonice, Czechoslovakia

Danish National Committee of URSI:
Narssarssuaq, Greenland

Ionospheric Research Group (GRI) France:
Casablanca, Morocco
Dakar, French West Africa
Djibouti, French Somaliland
Poitiers, France
Tahiti, Society Is.
Tamanrasset, French West Africa
Tananarive, Madagascar

Ionospheric Institute, Breisach, Germany:
Freiburg, Germany

Indian Council of Scientific and Industrial Research, Radio Research Committee, New Delhi, India:
Ahmedabad (Physical Research Laboratory)

Ministry of Posts and Telecommunications, Radio Research Laboratories, Tokyo, Japan:
Syowa Base, Antarctica

General Directorate of Telecommunications, Mexico:
El Cerillo, Mexico

Christchurch Geophysical Observatory, New Zealand Department of Scientific and Industrial Research:
Campbell I.
Christchurch, New Zealand
Rarotonga I., Cook Is.

South African Council for Scientific and Industrial Research:
Salisbury, Southern Rhodesia (University College of Rhodesia and Nyasaland)

Post, Telephone and Telegraph Administration, Berne, Switzerland:
Sottens, Switzerland

United States Army Signal Corps:
Fort Monmouth, New Jersey
Grand Bahama I.
Thule, Greenland

National Bureau of Standards (Central Radio Propagation Laboratory):
Fairbanks (College), Alaska (Geophysical Institute of the University of Alaska)
Point Barrow, Alaska
Pole Station, Antarctica

TABLES OF IONOSPHERIC DATA

December 1961 - January 19

TABLE .

THULE, GREENLAND (76.0N, 68.0W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 26	U 285	U 28	U 28	U 24	U 23	U 24	U 24	U 475	U 33	U 32	U 35	U 35	U 395	U 38	U 355	U 36	U 30	U 34	U 32	U 28	U 29	U 26	U 27
	CNT	17	18	11	15	18	16	18	17	16	11	15	16	12	18	20	16	20	14	13	15	19	17	15	13
	UQ	32	33	32	31	30	28	26	28	32	36	36	47	48	46	44	42	40	39	41	38	32	30	32	29
	LQ	23	22	24	25	23	21	23	22	22	30	26	26	30	34	30	30	25	26	28	26	22	22	23	24
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	245	257	250	250	255	254	2525	262	253	249	241	233	230	2335	230	230	230	240	2255	248	250	2435	240	238
	CNT	25	30	27	27	28	29	24	27	24	26	28	26	27	28	28	27	28	29	26	25	29	30	27	27
	UQ	269	270	265	278	262	275	282	285	274	260	264	240	245	250	246	250	246	250	250	254	258	270	261	260
	LQ	230	240	243	235	230	231	230	240	240	234	230	215	219	220	218	213	211	220	219	235	230	230	234	230
(M3000)F2	MED	U 300	U 305	U 3125	U 305	U 305	U 305	U 295	U 295	U 290	U 300	U 3075	U 305	U 310	U 305	U 305	U 3025	U 310	U 305	U 2975	U 300	U 305	U 315	U 305	U 300
	CNT	15	16	10	11	13	11	16	13	15	11	14	15	11	18	18	12	17	14	10	12	16	10	14	11
	UQ	320	315	320	310	310	315	310	310	310	315	315	320	330	320	315	330	330	310	325	315	320	320	315	310
	LQ	295	295	270	290	300	285	280	285	280	300	285	290	300	300	300	290	300	295	290	290	295	305	300	300
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED														19			135	195	26	30	31			
	CNT	30	30	30	29	29	29	30	31	28	29	29	29	29	29	30	29	30	30	29	28	29	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

DECEMBER, 1961

TABLE 2

FAIRBANKS, ALASKA (64.9N, 147.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 235	U 30	U 25	U 29	U 28	U 33	U 24	U 23	U 215	U 32	U 43	U 53	U 56	U 59	U 60	U 45	U 39	U 28	U 20	U 18	U 33	U 34	U 265	U 25
	CNT	8	8	2	8	7	6	10	9	10	18	21	27	26	27	28	27	28	24	15	5	3	3	8	11
	UQ	28	34		32	40	35	29	26	23	36	49	57	62	64	63	50	44	33	22	20	34	34	32	28
	LQ	20	22		26	27	28	21	20	19	30	40	50	52	52	53	42	33	25	18	16	20	33	21	18
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 3075	U 320			U 285	U 290	U 305	U 305	U 3025	U 325	U 345	U 345	U 345	U 350	U 355	U 340	U 335	U 3375	U 3275	U 315			U 3125	U 310
	CNT	6	6	2	4	7	5	9	6	6	18	21	26	26	24	25	27	27	22	10	5	3	3	6	6
	UQ	330	335			300	300	315	310	320	335	350	350	355	350	365	355	350	350	340	330			330	320
	LQ	300	305			280	280	290	300	295	315	330	335	335	335	340	330	320	325	295	300			310	300
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	35	40	435	405	41	38	24	18													18	35	495	265
	CNT	27	29	20	24	25	23	19	18	15	19	17	24	29	28	28	27	29	27	21	15	11	14	22	22

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

DECEMBER, 1961

TABLE 3

POINT BARROW, ALASKA (71.3N, 156.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 29	U 32	U 27	U 32	U 33	U 36	U 35	365	U 36	U 34	U 37	469	55	565	55	48	44	33	27	24	U 29	285	U 31	U 33
	CNT	6	9	6	7	7	8	9	10	10	15	19	24	26	26	26	27	26	27	19	12	9	12	13	9
	UQ	38	34	36	34	37	37	38	42	43	41	45	52	59	60	62	56	48	41	32	32	40	33	34	42
	LQ	27	27	21	30	31	31	32	31	32	31	33	44	46	51	50	44	37	30	20	20	18	24	26	28
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	U 340	U 310	U 305	U 295	U 290	U 345	E 370	U 335	U 325	U 295	285	280	245	245	240	240	245	265	E 2625	310	U 280	E 330	335	320
	CNT	8	7	7	9	11	9	8	9	9	9	15	19	19	21	19	22	22	21	16	8	5	12	15	11
	UQ	395	340	370	305	320	400	410	390	350	330	305	275	260	260	290	270	280	280	325	360	490	350	370	350
	LQ	280	280	260	260	260	320	325	310	290	290	265	240	235	230	225	230	230	240	250	280	270	290	305	285
(M3000)F2	MED		U 300	U 2925	U 310	U 3075	U 285	U 290	2975	2925	U 300	310	315	320	320	3225	320	315	3125	3075	310	U 310	300	3025	U 300
	CNT	4	7	6	6	6	7	8	10	10	13	18	24	26	25	26	27	26	26	16	10	7	11	12	7
	UQ		330	320	310	310	295	300	300	305	310	320	325	330	330	335	330	325	325	325	320	315	315	310	310
	LQ		295	290	300	290	280	275	275	280	290	300	310	310	310	310	305	300	305	295	300	290	285	290	290
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	345	53	47	38	33	33	34	32	34	31	29								245	30	315	33	35	34
	CNT	30	29	29	23	28	27	29	25	27	23	24	26	27	28	27	30	30	30	26	28	24	29	30	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

NOVEMBER, 1961

TABLE 4

FAIRBANKS, ALASKA (64.9N, 147.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 325	U 28	U 27	U 29	U 28	U 27	U 25	U 24	U 335	U 45	U 535	U 62	U 625	U 67	U 63	U 56	U 48	U 40	U 25	U 22	U 21	U 18	U 18	U 205
	CNT	4	9	6	5	6	9	8	11	20	23	28	27	28	28	23	29	26	27	26	14	6	11	7	8
	UQ	36	30	29	35	30	33	28	28	38	49	58	66	68	72	69	62	53	42	34	25	24	27	20	32
	LQ	30	27	26	26	21	24	22	22	28	41	48	55	58	58	59	48	39	32	22	20	21	18	17	16
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED		U 280	U 290	U 290		U 275	U 300	U 3075	3225	3375	345	340	350	345	350	350	330	335	340	U 330		U 3125		U 3075
	CNT	2	7	5	5	4	7	7	8	18	22	27	26	27	27	22	28	24	27	23	11	4	8	3	6
	UQ		310	310	300		300	305	310	330	350	355	350	355	350	360	355	340	350	350	340		320		340
	LQ		280	280	280		275	290	300	310	320	330	335	335	335	345	335	325	320	315	310		300		300
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	435	40	425	335	295	205	195															27	355	31
	CNT	22	23	22	20	22	20	20	19	23	24	28	27	28	28	24	25	22	28	29	21	17	22	24	23

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

NOVEMBER, 1961

TABLE 5

THULE, GREENLAND (76.0N, 68.0W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 31	U 325	U 33	U 34	U 325	U 37	U 31	U 35	U 445	U 49	U 49	U 50	U 52	U 52	U 505	U 48	U 50	U 445	U 44	U 48	U 30	U 41	U 30	U 25
	CNT	12	16	7	7	8	8	9	12	18	19	19	21	19	17	20	13	14	14	10	13	7	12	10	11
	UQ	44	42	44	36	38	46	40	42	48	58	54	56	58	56	60	58	52	54	51	49	34	50	35	45
	LQ	25	24	20	27	24	24	24	31	39	43	46	44	47	47	46	42	44	42	37	31	24	31	25	23
h'F2	MED																								
	CNT													2		2	1	1							
	UQ																								
	LQ																								
h'F	MED	2545	252	250	2475	U 257	250	247	240	230	2355	231	231	224	231	237	2345	236	232	2375	240	250	2435	257	256
	CNT	26	28	25	24	25	26	23	27	29	26	27	28	29	29	29	28	27	27	26	27	27	26	27	28
	UQ	275	285	285	270	276	256	257	249	238	246	242	239	236	244	244	248	252	243	250	258	259	255	281	269
	LQ	245	238	238	237	240	231	236	234	225	229	225	225	220	224	229	227	226	225	229	228	237	237	237	244
(M3000)F2	MED	U 300	U 300	U 300		U 305	U 310	U 3175	U 330	U 3275	U 320	U 320	U 315	U 320	U 310	U 305	U 305	U 305	U 300	U 300	U 300	U 275	U 305	U 280	U 300
	CNT	11	13	5	4	7	7	8	10	16	17	17	17	19	15	17	9	14	14	10	12	5	8	7	7
	UQ	305	300	310		315	320	330	340	330	330	335	330	330	320	315	320	310	305	300	310	300	305	290	305
	LQ	275	280	300		280	310	310	320	320	310	305	310	305	305	290	295	300	295	295	290	275	285	280	295
foF1	MED																								
	CNT													1	1	1	1	1							
foE	MED											U 185	U 200	U 2075	195		U 170								
	CNT							1	1	4	10	8	13	12	9	5	3		1						
h'E	MED								119	117	117	U E 1205	E 1205	E 126	1215	1165	120								
	CNT							3	6	11	14	14	12	11	14	10	7		1						
foEs	MED							31	16	24	24	195				20	225	205	17	35	29	36	29	235	
	CNT	28	28	27	27	28	28	27	29	29	27	28	28	30	29	29	28	28	29	28	29	29	29	30	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

OCTOBER, 1961

TABLE 6

POINT BARROW, ALASKA (71.3N, 156.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 335	U 31	U 30	U 28	U 36	U 30	U 35	345	42	48	50	50	545	57	585	57	57	535	45	37	U 295	U 28	U 305	285
	CNT	6	9	10	8	8	7	7	10	19	20	25	29	26	26	28	27	27	20	20	20	20	19	10	8
	UQ	39	38	42	33	38	37	38	41	44	52	56	60	66	70	68	66	66	60	54	44	34	30	34	30
	LQ	28	28	26	25	30	24	24	33	37	40	44	45	50	51	50	51	48	47	39	30	24	24	27	24
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 280	U 290	U 285	U 275	U 275	U 2775	U 2625	290	2975	310	315	310	315	3175	3175	320	320	3125	310	305	U 300	U 2975	U 290	U 280
	CNT	5	7	9	7	7	6	6	10	18	19	25	27	26	26	28	27	26	24	20	20	16	12	9	7
	UQ	290	300	300	285	285	305	270	300	310	325	320	325	320	320	330	325	325	325	320	315	310	305	300	295
	LQ	275	265	270	255	265	265	260	285	280	300	300	305	300	305	305	300	305	305	300	290	270	270	270	265
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	49	48	445	45	345	33	38	355	35	31	335		24											
	CNT	31	30	30	30	26	31	30	28	27	28	30	29	26	27	30	28	30	31	30	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

OCTOBER, 1961

TABLE 7

THULE, GREENLAND (76.0N, 68.0W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 47	U 48	U 47	U 495	U 48	U 47	U 47	U 49	U 50	U 505	U 50	U 52	U 53	U 53	U 515	U 535	U 54	U 51	U 505	U 49	U 50	U 485	U 49	U 50
	CNT	19	22	21	18	21	19	17	23	23	22	21	20	21	24	20	24	24	27	24	29	29	26	21	23
	UQ	52	50	51	54	52	51	54	53	55	54	54	56	57	54	57	58	57	56	59	58	56	51	52	53
	LQ	45	46	44	42	45	43	43	45	44	44	46	48	48	48	48	48	47	46	48	46	45	44	46	45
h'F2	MED					U 298	U 295	345	3295	340	362	370	342	325	344	3455	350	320	3095	311	U 310				
	CNT		1	1	1	5	6	16	16	22	19	23	21	19	24	18	21	23	20	12	7	3			
	UQ						312	402	376	390	430	410	377	364	384	388	400	386	330	329	400				
	LQ					264	292	300	304	315	339	335	302	318	300	312	302	307	280	282	290				
h'F	MED	240	239	238	238	230	223	219	218	211	210	206	2095	209	209	205	2105	215	218	225	230	242	249	248	241
	CNT	29	27	28	29	29	29	28	31	29	31	29	30	30	28	31	30	29	29	29	29	29	30	26	28
	UQ	255	250	250	244	240	230	220	223	220	217	212	215	218	220	215	219	221	228	236	238	250	260	260	250
	LQ	226	231	228	226	223	218	212	214	208	205	200	200	200	200	199	205	205	210	220	220	230	238	236	232
(M3000)F2	MED	U 315	U 315	U 300	U 320	U 310	U 320	U 305	2975	305	305	280	2945	305	2975	295	295	295	300	305	305	305	305	305	305
	CNT	17	22	21	17	19	19	17	20	23	20	20	20	20	24	20	22	23	25	24	28	27	25	21	23
	UQ	320	320	315	335	320	335	310	330	325	310	300	310	310	310	300	300	310	310	310	310	315	315	320	315
	LQ	300	305	290	305	305	300	265	270	275	280	270	270	295	280	280	280	285	285	295	300	300	300	300	300
foF1	MED						U 355	370	380	390	395	400	410	410	415	400	390	390	370	U 350					
	CNT				1	1	6	13	12	17	22	23	21	21	20	18	19	15	8	6	4				
foE	MED	U 175	U 180	U 190	U 200	205	2275	235	250	265	270	280	275	280	285	270	265	2525	240	230	U 2125	U 200	U 185	U 180	U 1725
	CNT	13	14	14	21	27	24	25	26	21	22	21	20	21	22	23	23	24	21	26	21	15	15	10	10
h'E	MED	U 135	E 130	U 120	123	118	112	110	108	105	103	1025	101	100	104	103	1065	110	110	115	120	125	U 130	129	E 134
	CNT	15	15	16	21	26	28	29	29	29	29	28	24	22	23	28	26	29	23	29	23	21	13	10	10
foEs	MED								27					32	32	30	28	28	265	27		20			
	CNT	29	29	29	29	29	29	30	31	30	31	31	31	30	30	31	31	31	30	31	31	30	30	27	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

AUGUST, 1961

TABLE 8

NARSSARSSUAQ, GREENLAND (61.2N, 45.4W)

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 38	U 31	U 37	U 375	U 36	41	48	51	51	53	54	55	56	55	58	57	56	57	U 57	U 49	U 48	U 47	U 435	U 50
	CNT	1	3	7	6	14	17	19	18	24	24	27	25	28	29	31	26	27	23	19	15	7	7	6	3
	UQ		34	47	40	39	46	52	57	56	60	62	64	62	62	65	65	66	64	61	57	55	52	49	50
	LQ		29	33	36	33	37	44	47	47	46	47	49	50	50	53	53	52	52	50	44	42	40	36	45
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED			U 265		U 305	325	325	325	3125	310	300	3025	305	300	295	300	295	255	U 300	U 310				
	CNT			5	3	9	15	15	16	20	22	21	18	23	25	28	25	22	18	14	15	4	4	3	2
	UQ			280		315	335	340	330	330	320	315	315	315	310	310	310	310	305	310	320				
	LQ			265		295	320	305	310	300	250	260	290	285	260	270	280	290	290	295	310				
foF1	MED													410	U 420	430	440	450	U 440	440	U 430	U 410	U 400		
	CNT							1	4	9	14	17	18	23	23	20	14	10	6	1					
foE	MED						U 240	265		U 290	300	U 310	320	320	320	320	300	290	2775						
	CNT					4	9	9		14	16	9	13	17	20	19	17	21	8	4	2				
h'E	MED					119	109	105		103	103	101	103	103	103	103	103	103	108	113	119				
	CNT					5	15	13		18	21	16	20	23	25	27	28	28	26	18	9	2			
foEs	MED	465	45	42	425	38	37	24	265	29		31							285	33	35	35	39	50	45
	CNT	28	27	27	28	27	25	25	24	27	28	27	26	28	29	30	30	29	28	29	29	30	27	29	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

AUGUST, 1961

TABLE 9

THULE, GREENLAND (76.0N, 68.0W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 45	U 455	U 445	U 47	U 44	U 445	U 45	U 47	U 48	U 48	U 48	U 495	U 47	U 485	U 48	U 505	U 50	U 48	U 475	U 475	U 48	U 48	U 50	U 46
	CNT	17	20	16	15	19	16	17	15	13	11	11	14	10	12	15	16	17	17	20	20	16	19	17	19
	UQ	49	50	51	49	49	50	51	51	53	51	53	52	48	50	52	52	52	50	50	50	51	52	52	50
	LQ	38	41	43	45	40	42	38	40	46	40	42	46	41	44	46	46	44	45	46	46	44	44	46	43
h'F2	MED	U 350	U 310	U 304	U 328	365	375	396	400	358	400	400	418	430	430	419	382	379	393	350	359	U 349	310	U 3015	
	CNT	5	9	11	12	16	14	19	17	14	14	11	14	11	15	15	17	20	16	21	14	7	12	6	4
	UQ		476	350	432		430			413			459		480	530	436	468	415	417	388	350	327	313	
	LQ	300	304	265	306	336	332	360	355	330	363	345	398	378	370	378	356	344	340	318	330	332	300	288	
h'F	MEQ	224	U 240	234	228	221	220	214	210	2145	210	204	2045	205	203	2075	210	218	218	2235	228	230	230	240	2325
	CNT	21	23	23	21	25	22	23	21	18	19	19	22	17	20	20	21	20	20	20	20	19	24	24	24
	UQ	250	260	240	237	235	230	232	220	226	225	220	219	208	212	212	227	230	232	238	238	250	245	250	240
	LQ	218	220	219	210	211	212	209	206	205	202	200	197	195	200	200	201	207	207	218	221	224	220	226	219
(M3000)F2	MED	U 300	U 305	U 295	U 2925	U 280	U 280	U 270	U 265	U 2825	U 265	U 2825	U 275	U 245	U 2675	U 265	U 280	08 285	U 275	U 2825	U 285	U 295	U 295	U 300	U 3125
	CNT	14	19	15	14	17	15	16	15	12	10	10	13	9	12	15	15	17	17	20	20	16	18	17	18
	UQ	315	325	320	315	300	305	300	290	305	275	300	290	290	285	300	290	300	290	295	300	300	310	320	320
	LQ	280	280	275	265		270			260						250	270	260	260	270	275	290	280	290	295
foF1	MEQ				345	360	370	370	390	400	400	410	420	410	420	410	400	36 400	390	370	365				
	CNT	2	3	4	10	15	17	20	19	16	19	18	21	17	19	19	19	17	14	11	10	2	2	3	2
foE	MED	U 210	210	220	230	240	250	260	270	280	285	290	290	295	U 290	2875	280	04 270	260	250	240	U 2225	U 210	U 210	U 200
	CNT	14	13	12	15	18	16	16	16	11	11	9	10	10	9	12	11	10	10	11	13	12	11	15	13
h'E	MED	121	116	117	111	110	108	1075	104	1005	102	1015	1015	100	102	102	102	11 107	105	1085	111	116	111	U 120	E 119
	CNT	15	10	15	15	18	18	18	18	14	14	12	12	10	13	13	14	13	15	18	17	16	13	16	12
foEs	MED													39				37	28	28	255	26			
	CNT	24	23	24	24	25	25	24	24	21	22	22	23	21	21	22	24	23	23	23	24	23	24	25	25

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. JULY, 1961

TABLE 10

POINT BARROW, ALASKA (71.3N, 156.8W) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 47	U 445	44	45	45	455	45	445	47	49	465	47	48	48	49	515	515	52	50	48	45	45	U 47	47
	CNT	19	16	15	18	11	10	15	16	17	16	18	17	17	22	21	24	22	22	23	23	20	20	22	21
	UQ	48	46	45	47	46	47	48	47	50	50	49	48	50	51	53	55	53	54	53	52	48	48	48	48
	LQ	45	43	42	43	42	43	40	38	44	46	44	46	46	46	48	48	50	50	47	45	42	44	43	42
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEQ	U 295	2925	295	290	275	U 290	255	2325	260	265	235	255	255	260	270	270	270	2775	2875	295	305	2925	U 295	295
	CNT	18	14	13	17	11	5	14	14	17	15	17	16	17	22	21	24	21	22	22	23	18	18	19	20
	UQ	305	305	300	295	285	315	275	265	270	270	270	270	265	290	280	290	290	295	300	310	310	310	305	315
	LQ	285	275	280	270	250	255	230		240	240	220	245	240	235	240	260	265	270	270	250	275	275	290	290
foF1	MEQ																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MEQ																								
	CNT																								
foEs	MED	58	55	33	25	27	33	28	34	35	41	345													
	CNT	25	23	23	25	23	23	23	23	23	21	20	18	17	22	22	24	22	24	23	24	26	25	24	24

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. JULY, 1961

TABLE 11

NARSSARSSUAQ, GREENLAND (61.2N, 45.4W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 39	U 395	U 355	U 33	U 35	U 405	U 415	43	44	47	48	50	52	54	55	54	54	52	53	50	47	46	415	385
	CNT	12	8	10	2	3	4	4	11	13	18	19	22	24	23	23	23	24	23	21	20	15	17	12	10
	UQ	44	40	41		43	45	44	45	48	52	52	54	53	55	56	57	56	56	55	52	49	48	44	44
	LQ	36	36	32		33	38	41	40	43	46	48	48	49	51	52	53	50	48	50	48	44	44	38	37
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 285	U 290	U 295					U 2675	255	285	270	2825	270	285	285	2925	295	285	295	300	U 2975	U 305	U 295	U 280
	CNT	7	7	6	2	1	4	2	8	11	16	15	22	19	20	23	22	22	21	18	18	12	14	11	9
	UQ	300	295	295					310	290	300	290	295	275	295	295	300	300	295	305	310	310	315	305	295
	LQ	285	280	270							235	250	260	255	260	275	280	280	270	290	285	290	290	270	275
foF1	MED								405	420	430	440	450	450	450	440	440	430	410						
	CNT							2	6	12	16	18	19	20	20	20	18	19	8	2	1				
foE	MED								285	300	320	U 315	U 3275	340	U 320	U 3125	U 310	300	U 300	U 300		470			
	CNT				1			1	5	5	7	5	6	7	9	8	7	7	9	5	3	6			
h'E	MED								109	106	105	107	106	105	102	103	103	107	109	111	113	125			
	CNT				1	1	1	2	9	8	12	11	14	14	16	15	13	16	17	14	8	10	1		
foEs	MED	375	36	38	43	42	44	43										42	32			325	31	40	495
	CNT	28	25	23	17	12	15	16	16	15	19	17	22	24	24	23	23	24	25	24	26	24	25	27	26

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. JULY, 1961

TABLE 12

THULE, GREENLAND (76.0N, 68.0W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 49	U 49	U 47	U 45	U 465	U 475	U 50	U 48	U 47	U 48	U 51	U 51	U 50	U 53	U 50	U 51	U 51	U 52	U 51	U 495	U 495	U 49	U 49	U 495
	CNT	21	14	19	19	16	22	16	17	18	15	13	16	20	24	23	21	22	23	22	24	20	18	20	18
	UQ	52	53	51	48	52	50	52	51	49	53	54	54	54	53	54	56	57	56	53	53	53	52	51	52
	LQ	47	48	44	42	42	41	43	44	45	42	41	50	47	49	46	49	49	50	49	48	46	48	46	46
h'F2	MED	U 341	U 3615	3265	349	3525	381	374	402	U 412	400	427	385	414	400	400	382	384	365	3385	340	U 3155	310	U 301	U 310
	CNT	8	8	12	14	18	21	21	26	19	17	20	19	18	24	23	23	26	26	22	20	16	13	8	5
	UQ	390	419	360	450	382		470	440	485		515	480	459	449	481	420	420	410	370	360	362	340	332	357
	LQ	302	310	295	284	305	356	334	377	361	340	347	358	347	358	375	361	347	343	310	316	308	300	296	268
h'F	MED	2295	221	218	2185	210	210	210	208	208	208	2025	2015	205	201	204	204	210	212	2195	212	230	231	230	229
	CNT	28	28	28	30	30	30	27	29	26	27	24	22	25	25	25	27	29	24	24	23	29	24	27	29
	UQ	240	232	230	227	220	218	221	218	212	215	210	210	210	210	208	210	218	222	226	230	252	239	232	240
	LQ	220	218	210	208	205	204	207	200	200	199	196	199	200	192	200	197	200	208	205	208	220	216	218	212
(M3000)F2	MED	U 3025	U 300	U 2975	U 285	U 290	U 2675	U 275	U 280	U 2625	U 275	U 260	U 275	U 2775	U 2725	U 275	U 290	U 280	U 290	U 295	U 290	U 3025	U 300	U 295	U 310
	CNT	20	13	18	17	16	18	15	16	16	13	11	15	18	22	23	20	21	22	21	23	20	18	19	16
	UQ	310	315	315	295	320	280	310	290	270	310	295	290	280	300	295	300	290	300	310	305	310	310	310	310
	LQ	290	290	275	265	275		225	230	240			250	265	260	255	270	270	275	275	285	285	290	285	295
foF1	MEQ			U 350	360	U 355	380	390	400	410	420	420	420	430	430	420	410	355		U					
	CNT	3	3	5	10	12	23	21	26	24	23	22	19	22	23	25	22	400 25	400 19	380 14	360 11	355 6	4	2	
foE	MED	U 210	U 210	220	2325	245	250	270	285	285	290	300	300	305	300	295	2875	280	275	250	250	235	230	U 220	U 210
	CNT	25	29	29	26	26	26	25	25	23	21	19	17	17	15	20	18	17	20	21	18	15	17	23	26
h'E	MED	118	1125	110	109	107	102	101	100	100	100	100	100	100	100	100	100	101	102	103	107	110	1135	117	118
	CNT	29	30	30	30	30	29	28	30	29	25	27	24	20	20	19	20	22	26	25	24	26	26	27	29
foEs	MED												31	43	365	40	40	375	435	365	32	31	26		415
	CNT	29	30	30	30	30	30	28	30	29	29	30	29	29	30	30	29	30	28	28	30	30	29	49	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. JUNE, 1961

TABLE 13

NARSARSSUAQ, GREENLAND 61.2N, 45.4W)

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 44	U 34	U 37	U 37	U 40	43	46	49	495	45	51	55	555	56	56	575	565	54	54	52	U 50	U 47	U 45	U 40
	CNT	9	13	9	10	15	17	19	20	22	23	26	27	26	29	28	24	26	24	28	27	22	19	11	14
	UQ	46	40	40	41	43	46	49	55	56	55	57	57	58	58	60	60	60	58	58	57	55	50	50	44
	LQ	40	32	36	36	38	42	45	48	46	46	49	49	50	51	53	53	50	52	48	48	47	44	42	37
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 283	U 275	U 270	U 285	295	3125	4925	2825	300	280	280	290	285	285	285	285	2925	290	300	3075	3025	U 300	U 2975	U 300
	CNT	7	10	7	7	12	16	16	18	19	22	25	26	26	29	26	23	26	24	25	26	18	15	10	9
	UQ	320	285	305	315	315	320	300	310	320	305	300	310	305	300	305	305	305	300	310	315	310	315	305	305
	LQ	275	270	280	270	270	290	270	270	290	290	280	290	265	270	265	275	270	280	290	295	300	300	290	280
foF1	MED								415	430	440	450	450	460	455	450	440	435	415	U 390					
	CNT							3	8	15	17	24	28	24	28	25	17	18	14	7	2				
foE	MED								300	310	315	U 325	U 330	U 340	U 340	U 330	320	U 300	280	U 2675	235	260			
	CNT			1			2	3	7	15	10	10	9	11	13	14	7	13	9	12	5	5	3		1
h'E	MED					111	103	101	101	103	103	101	101	103	101	101	101	103	102	105	109	115			
	CNT			1	1	5	6	7	15	21	16	21	26	25	26	24	24	24	22	24	24	15	4	4	1
foEs	MED	40	445	345	36	38	385	375	345										35	345	33	37	395	50	33
	CNT	26	28	26	24	27	26	22	22	24	24	27	28	26	29	27	28	28	29	30	29	29	30	29	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

JUNE, 1961

TABLE 14

FT. MONMOUTH, NEW JERSEY 140.4N, 74.1W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	52	49	45	36	32	39	44	50	565	60	60	60	605	59	56	62	62	63	65	68	65	61	585	54
	CNT	27	23	21	25	21	28	27	20	24	23	19	21	18	21	24	26	25	26	25	23	23	22	22	24
	UQ	57	51	48	41	36	43	49	56	60	63	65	62	64	64	64	66	68	69	72	72	73	66	62	60
	LQ	43	37	34	32	28	33	40	48	52	49	50	52	54	52	54	57	57	58	60	56	58	56	52	48
h'F2	MED							368	370	390	3965	372	370	3675	374	365	3525	332	319	2945					
	CNT						1	15	17	24	24	19	21	18	21	25	26	25	26	16					
	UQ							390	422	410	418	410	446	415	473	430	380	390	335	308					
	LQ							315	319	321	315	320	330	350	342	344	340	320	300	284					
h'F	MED	U 275	U 2715	U 274	U 289	E 295	E 249	U 237	220	U 215	E 213	210	205	1965	208	215	U 222	U 218	U 225	E 2505	256	258	2625	273	U 272
	CNT	29	26	25	27	28	28	27	17	19	18	15	17	12	15	21	23	19	17	20	26	27	28	27	28
	UQ	300	300	288	300	310	260	252	240	262	229	220	210	216	215	230	235	225	251	275	260	272	278	299	303
	LQ	265	260	260	275	266	240	226	202	207	203	185	192	187	200	209	210	209	217	240	250	240	248	256	260
(M3000)F2	MED	290	295	295	290	300	310	300	300	300	295	300	300	295	290	295	295	300	300	3045	310	310	300	295	U 300
	CNT	26	23	20	24	22	26	26	20	24	23	19	20	18	19	23	26	25	26	24	23	23	20	19	23
	UQ	300	300	300	300	310	320	320	315	320	320	320	310	305	310	305	300	305	310	310	315	315	310	300	305
	LQ	285	290	290	280	290	300	290	280	275	275	275	275	275	255	280	290	290	295	295	305	300	290	290	290
foF1	MED							365	400	440	460	475	475	480	480	465	460	445	U 400						
	CNT						1	8	11	13	16	14	10	13	15	10	40	16	0						
foE	MED							U 240	U 290	U 305	U 3325						340	320	U 290						
	CNT			1				5	9	7	6	3	2	2	4	1	7	13	14	4					
h'E	MED							120	110	110	107	105	105	105	105	105	107	108	110	115					
	CNT			1				5	27	26	45	25	23	21	19	19	20	23	25	27	2				
foEs	MED	34	325	30	315	30	20	31	345	41	40	49	45	48	435	41	41	38	52	43	49	455	38	31	355
	CNT	29	28	28	28	29	28	28	26	26	26	24	25	21	22	26	26	27	27	27	28	28	27	28	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

JUNE, 1961

TABLE 15

THULE, GREENLAND (76.0N, 68.0W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 46	U 45	U 46	U 459	U 48	43	U 48	U 49	U 47	U 49	U 44	U 46	U 47	U 51	U 50	505	U 48	U 51	U 48	U 47	U 47	U 475	U 46	U 469
	CNT	15	15	17	16	13	13	16	13	13	13	14	11	12	15	16	18	22	19	19	15	19	22	19	18
	UQ	50	50	51	48	51	50	50	50	54	54	51	54	50	55	55	57	54	56	53	51	52	50	49	49
	LQ	39	39	42	39	38	36	42	38	39	40	39	40	40	46	46	47	46	47	44	43	43	43	43	43
h'F2	MED			U 320	U 310	3385	329	350	406	356	3765	429	421	410	390	3855	380	354	340	344	U 343	311			
	CNT	1	2	6	9	14	14	17	16	16	16	20	17	18	17	20	18	21	19	15	19	10	3	2	2
	UQ			340		410		425		600	458	415	410	394	370	381	375	340							
	LQ			295	286	320	310	302	355	332	320	366	360	343	350	358	335	324	324	310	310	301			
h'F	MED	2385	240	2385	229	220	219	217	211	218	212	2135	210	2085	213	210	211	214	218	222	224	230	240	240	243
	CNT	26	26	22	25	25	25	24	23	22	21	22	23	22	23	23	22	25	25	25	23	25	24	26	26
	UQ	247	249	249	239	239	228	220	220	230	221	220	215	216	222	220	220	222	230	233	239	244	255	250	255
	LQ	230	230	224	220	212	208	205	202	210	202	208	200	200	200	200	200	208	210	208	219	220	221	221	231
(M3000)F2	MED	U 315	U 3125	U 3125	U 305	U 300	300	U 285	U 275	2725	U 280	G 11	U 260	2525	U 2875	U 275	U 285	U 2875	U 290	U 2975	U 290	U 300	U 3025	U 305	U 300
	CNT	15	14	16	15	12	13	15	11	10	11	13	11	12	14	15	17	20	17	18	13	18	22	18	16
	UQ	330	335	330	325	315	310	300	315	305	325	290	300	270	300	295	300	300	300	305	295	310	310	310	315
	LQ	295	305	300	295	290		265							250	265	270	280	280	285	285	300	295	295	290
foF1	MED						U 360	370	390	395	400	400	410	410	410	410	400	390	U 380	U 360	U 350				
	CNT			1	3	355	8	11	17	18	18	19	21	20	23	21	19	19	13	7	5	2			1
foE	MED	U 190	U 190	1975	210	225	240	255	265	275	2825	290	290	290	290	280	2775	2675	250	240	230	2075	200	U 1975	U 1975
	CNT	21	22	20	21	22	25	23	22	14	14	16	19	14	17	19	20	20	21	18	17	20	20	20	21
h'E	MED	117	118	1105	110	110	108	107	103	105	103	1035	102	102	104	103	105	1045	108	108	110	110	113	118	113
	CNT	27	27	24	25	25	25	24	24	22	22	22	20	18	22	21	22	24	26	25	22	25	25	25	24
foEs	MED															315			28	265	27	21			
	CNT	27	27	24	25	25	25	24	24	24	23	25	24	24	26	26	26	26	26	26	26	27	27	27	26

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

MAY, 1961

TABLE 16

FT. MONMOUTH, NEW JERSEY 140.4N, 74.1W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	48	44	39	36	305	37	46	50	53	56	56	60	60	61	60	61	635	65	67	69	64	62	535	53
	CNT	25	23	23	23	26	30	29	27	29	30	31	29	30	30	30	30	30	29	29	29	31	27	28	27
	UQ	51	46	42	39	35	42	50	56	58	60	60	64	65	65	69	66	69	72	76	74	71	68	62	57
	LQ	42	40	37	33	26	33	39	45	48	51	51	52	54	53	55	56	58	59	58	60	58	55	50	46
h'F2	MED							421	329	335	338	395	3875	369	345	348	351	322	295	267					
	CNT							9	14	23	29	31	28	30	30	30	30	29	27	19					
	UQ									410	426	447	454	440	430	410	372	343	325	280					
	LQ							284	278	285	299	330	336	333	328	320	313	300	280	256					
h'F	MED	270	280	U 277	U 282	U 278	250	225	217	2085	205	196	200	200	2095	212	215	U 2205	U 2245	E 243	251	241	250	263	270
	CNT	30	30	31	31	31	30	30	27	30	29	29	29	27	28	29	27	26	26	25	29	31	31	31	31
	UQ	290	290	294	305	300	255	230	230	220	222	207	210	215	220	220	220	243	255	253	260	260	262	275	283
	LQ	260	255	265	263	265	241	220	209	202	197	186	188	188	200	200	206	215	214	235	235	230	235	250	258
(M3000)F2	MED	285	285	290	290	300	3175	320	305	300	300	290	290	2925	295	300	300	300	305	310	305	3025	295	2925	290
	CNT	23	23	21	19	23	30	27	27	30	30	30	29	30	30	30	30	29	29	28	28	30	27	28	25
	UQ	295	295	300	300	305	330	330	320	330	320	305	310	305	305	310	305	310	310	315	310	310	305	300	295
	LQ	280	280	280	280	290	305	290	280	290	280	270	270	275	280	280	285	295	295	300	300	295	290	290	280
foF1	MED						340	385		430	450	460	470	470	470	470	450	430							
	CNT					1	5	10		14	20	25	27	25	24	25	20	9	3						
foE	MED				U 280	305	320	U 330	3475	355	3475	345	335	300	270										
	CNT				15	13	11	11	10	6	10	14	17	19	15	3									
h'E	MED					E 125	112	109		105	105	103	105	105	1045	107	107	108	110	115					
	CNT					6	23	25		30	29	30	31	29	30	30	28	28	29	24					
foEs	MED	28	31	30	31	31	29	23	30	335	36	36	37	38	37	355	35	335	33	28	23	31			
	CNT							30	27	30	30	31	31	30	31	30	29	30	30	31	30	28	30	30	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

MAY, 1961

TABLE 17

GRAND BAHAMA I. (26.6N, 78.2W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	55	54	50	455	445	43	53	585	63	635	64	67	72	77	82	80	77	78	785	75	66	60	57	0 57
	CNT	25	25	26	26	26	25	24	24	24	22	24	21	24	25	25	23	25	25	26	22	25	26	24	26
	UQ	60	58	54	51	48	46	57	62	66	68	68	76	85	86	87	87	86	84	87	84	76	66	64	62
	LQ	50	48	48	44	39	36	48	56	56	61	60	64	68	74	74	74	70	67	66	69	63	56	50	51
h'F2	MED								258	280	316	351	355	335	324	3185	300	2925	286	265					
	CNT							2	17	20	22	23	24	27	27	26	25	28	26	26					
	UQ								321	315	340	385	377	370	346	325	314	302	296	279					
	LQ								246	268	297	320	330	318	310	300	292	284	275	258					
h'F	MED	E 274	U 270	E 2575	E 261	E 272	U 250	233	214	E 210	200	200	200	U 1075	205	210	212	U 217	222	240	230	E 227	E 2495	E 2635	E 2845
	CNT	30	30	30	30	31	30	29	27	27	21	25	20	24	21	22	21	24	23	22	25	28	28	30	30
	UQ	290	285	275	275	285	295	250	220	220	215	212	220	228	214	220	224	230	230	250	240	239	267	285	290
	LQ	265	260	240	240	260	245	224	207	200	195	181	200	200	202	203	205	208	216	224	221	220	237	248	270
(M3000)F2	MED	290	295	305	2975	300	305	335	330	320	310	2975	295	295	300	305	310	315	315	3175	3175	310	300	290	285
	CNT	25	24	24	26	25	25	24	24	23	21	22	21	24	24	24	23	25	24	22	18	22	24	23	23
	UQ	300	305	310	315	305	310	350	350	340	330	310	300	300	310	310	315	320	320	325	330	315	310	300	295
	LQ	280	285	290	290	280	295	320	315	310	300	280	290	285	290	300	300	305	310	310	310	295	290	290	280
foF1	MED									425	460	480	480	485	480	470	460	440	415						
	CNT							1	4	8	14	21	17	22	21	21	18	18	6						
foE	MED							200	260	300	330	U 350		U 365	365	355	340	320	U 270						
	CNT							7	10	9	7	8	3	9	11	13	15	15	11	4					
h'E	MED							E 1495	105	100	100	100	104	104	105	E 1045	103	E 1045	107	110					
	CNT							20	26	27	24	25	24	27	25	22	22	24	27	25					
foEs	MED			235	23			22	28	32	35	38	39	40	39	36	36	36	31	28	24	26	245	24	23
	CNT	26	26	26	26	26	25	25	25	26	24	25	23	25	24	24	24	25	26	26	26	26	26	26	25

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

MAY, 1961

TABLE 18

THULE, GREENLAND (76.0N, 68.0W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 45	U 43	U 415	U 43	U 39	U 44	U 44	U 47	U 49	U 48	U 48	U 48	U 52	U 50	U 50	U 46	U 47	U 515	U 50	U 48	U 48	U 45	U 455	U 44
	CNT	23	21	22	23	21	19	22	22	18	20	23	19	22	21	20	23	21	20	24	24	25	23	24	23
	UQ	50	48	46	46	46	48	49	51	54	52	57	50	55	56	54	55	54	56	54	50	52	51	52	48
	LQ	39	38	36	36	36	40	42	42	45	42	40	43	48	46	46	45	45	46	46	43	44	41	41	40
h'F2	MEQ					U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		U	U	U	U
	CNT					2	330	323	345	333	3355	3425	365	3665	365	3555	3565	330	305	290					
	UQ						7	9	15	16	18	22	19	24	21	22	20	17	11	7	1				
	LQ						440	355	380	375	436		450	405	425	440	418	350	400	335					
							302	305	315	314	320	320	329	315	286	315	335	315	280	285					
h'F	MEQ	254	254	250	249	2455	239	235	228	228	2235	225	220	215	220	222	223	2245	2365	242	250	249	250	256	2515
	CNT	29	30	30	30	30	28	29	29	28	28	29	27	29	28	28	30	30	30	29	30	30	30	30	30
	UQ	270	260	265	255	258	251	240	234	230	230	238	230	228	230	230	238	233	245	250	254	258	260	265	261
	LQ	242	245	240	240	232	232	227	220	220	219	218	210	209	214	212	216	218	230	230	235	240	245	250	242
(M3000)F2	MEQ	U 300	U 295	U 300	U 305	U 310	U 310	U 300	U 310	U 2975	U 290	U 300	U 275	U 285	U 295	U 300	U 295	U 300	U 300	U 3075	U 305	U 305	U 305	U 300	U 300
	CNT	20	16	20	20	20	18	23	21	18	19	21	16	22	20	18	22	19	19	22	23	24	22	23	22
	UQ	310	300	310	310	320	315	320	320	310	320	310	300	300	305	320	315	310	305	315	310	310	310	310	310
	LQ	290	280	295	290	300	295	290	290	280	275		225	265	290	275	275	295	280	300	300	300	295	290	295
foF1	MEQ								380	U 365	U 380	U 380	U 410	U 390	U 390	U 390	U 380	U 360	U 360						
	CNT					1	3	1	5	8	11	15	21	19	15	13	16	5	5	2	2				
foE	MEQ	U 150	U 1575	170	180	U 190	2025	2175	2375	260	270	270	265	270	270	260	2475	245	230	2175	190	185	U 165	160	150
	CNT	13	6	13	15	27	28	26	28	27	23	23	19	24	27	26	24	27	25	20	21	15	13	17	9
h'E	MEQ	1295	125	120	1195	120	114	114	110	110	107	109	1065	108	1095	109	110	110	115	115	120	120	124	127	125
	CNT	14	14	17	20	28	29	26	28	28	26	25	28	27	30	29	30	30	29	26	23	20	18	17	15
foEs	MEQ																								
	CNT	30	30	30	30	30	30	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

APRIL, 1961

TABLE 19

POINT BARROW, ALASKA (71.3N, 156.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 39	43	U 44	U 40	U 425	U 425	40	46	46	46	45	47	485	50	51	525	52	51	48	46	44	39	U 38	U 40
	CNT	18	16	20	20	20	16	15	18	17	19	21	27	24	23	27	28	28	26	27	21	21	25	20	21
	UQ	43	48	46	46	45	47	47	48	50	51	52	53	53	54	54	57	56	54	51	50	48	43	42	44
	LQ	35	39	34	35	38	40	35	42	40	43	43	44	45	47	46	49	49	49	45	43	38	37	36	36
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEQ	U 2775	285	U 285	U 290	U 290	U 275	265	250	275	260	265	265	265	270	270	2775	2825	285	295	300	300	295	U 295	U 285
	CNT	18	15	18	19	19	13	12	18	15	17	19	27	23	23	27	28	28	26	26	21	21	24	15	17
	UQ	290	295	290	290	295	285	290	275	290	270	275	280	280	290	280	285	290	300	300	310	310	300	305	290
	LQ	265	280	275	270	285	270	260	240	260	250	240	235	245	260	250	270	270	275	280	295	295	280	285	280
foF1	MEQ																								
	CNT																								
foE	MEQ																								
	CNT																								
h'E	MEQ																								
	CNT																								
foEs	MEQ	58	41	365	395	235	30	33	36	37		40									22	27	305	355	375
	CNT	27	29	30	26	28	26	28	29	26	25	25	27	23	24	27	29	29	29	29	29	29	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

APRIL, 1961

TABLE 20

NARSSARSSUAQ, GREENLAND (61.2N, 45.4W)

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 315	U 31	U 34	U 34	35	37	425	46	49	48	505	54	56	60	61	59	56	54	U 53	50	U 47	U 41	U 41	U 43
	CNT	10	9	7	4	10	16	16	22	22	27	29	28	28	27	28	27	25	27	23	18	13	10	5	3
	UQ	36	37	39	39	36	40	44	48	53	58	60	62	62	67	68	64	64	62	62	54	50	43	43	46
	LQ	29	28	30	32	28	34	39	43	45	46	48	48	50	54	54	55	49	50	51	45	44	38	38	40
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEQ	U 2825	U 2675			U 300	310	315	310	3025	295	2975	290	295	2925	300	2925	305	3075	U 300	310	U 300	U 2825		
	CNT	6	6	4	4	7	14	16	19	22	27	26	25	27	26	26	26	25	24	21	17	10	8	4	2
	UQ	300	270			300	315	325	325	315	305	310	310	305	310	305	305	310	310	310	310	310	290		
	LQ	270	255			295	300	310	295	285	285	275	270	270	275	285	280	270	295	295	300	290	280		
foF1	MEQ									370	410	420	430	430	440	440	410	U 410							
	CNT					1			1	7	13	20	17	18	18	14	15	8	1						
foE	MEQ							240	270	290	300	310	3125	320	310	300	300	U 280	U 255	U 260					
	CNT				1	1	2	5	9	14	16	12	16	19	22	17	15	15	16	9	3	1		1	
h'E	MEQ							110	113	109	109	109	109	109	109	109	109	109	115	113	E 130				
	CNT				1	3	3	6	14	15	20	17	21	22	23	25	23	25	21	15	6	2		1	
foEs	MEQ	445	355	33	415	395	38	32												335	31	30	57	45	345
	CNT	28	28	27	28	28	23	22	25	24	28	27	28	28	28	28	29	28	29	30	27	30	29	28	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

APRIL, 1961

TABLE 21

FT. MONMOUTH, NEW JERSEY (40.4N, 74.1W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	43	385	36	33	29	315	46	55	61	64	655	71	71	72	73	73	72	74	72	71	65	58	495	44
	CNT	24	26	25	22	19	22	27	29	27	25	26	25	29	28	28	29	29	29	29	29	27	24	22	25
	UQ	48	46	40	37	33	34	50	60	66	69	72	74	78	80	80	78	76	76	76	76	69	60	53	49
	LQ	39	36	34	30	27	30	42	50	51	55	58	58	61	64	64	64	66	65	64	62	60	52	47	41
h'F2	MED								320	296	301	305	3225	322	316	3085	300	290	276						
	CNT							4	12	22	23	24	24	29	28	28	29	29	23	4					
	UQ								370	330	362	382	355	367	350	347	327	316	300						
	LQ								256	280	276	294	302	300	296	294	283	276	265						
h'F	MED	U 2795	E 2785	U 2705	U 270	E 276	270	235	220	209	2055	1995	200	201	200	2085	213	219	229	240	230	235	249	267	2705
	CNT	28	28	28	26	26	27	29	29	28	26	26	25	28	28	28	29	29	29	29	29	28	27	27	28
	UQ	300	299	289	289	289	280	242	227	214	210	203	206	208	226	218	218	222	235	250	240	242	259	275	287
	LQ	266	260	264	261	269	252	230	219	202	200	189	186	189	195	200	208	214	220	232	228	230	240	251	266
(M3000)F2	MED	290	290	290	290	295	3075	330	320	3225	315	310	3025	300	3025	305	305	310	310	315	310	3065	295	290	280
	CNT	24	23	23	19	19	20	27	29	26	25	26	24	29	28	28	29	29	29	27	27	26	22	21	22
	UQ	295	290	300	300	300	315	335	335	340	325	320	310	310	310	310	310	320	320	320	320	310	305	295	295
	LQ	280	280	280	285	290	300	315	310	305	300	290	290	280	290	295	300	295	295	305	305	295	290	280	275
foF1	MED								400	430	450	460	460	475	470	460	440	400							
	CNT								5	8	9	14	19	22	21	18	11	5	2						
foE	MED							190	250	290	310	U 325	U 330	340	U 335	330	315	290	255						
	CNT							6	15	19	18	17	17	11	19	23	24	27	21	1					
h'E	MED							119	110	108	107	105	107	108	108	1085	109	110	111	E 122					
	CNT							13	29	28	27	26	25	28	27	28	29	29	26	8					
foEs	MED																								
	CNT	28	28	28	27	26	26	26	29	28	27	26	25	29	28	28	29	29	29	29	29	28	27	27	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

APRIL, 1961

TABLE 22

THULE, GREENLAND (76.2N, 68.8W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 40	U 42	U 395	U 275	U 42	U 37	U 42	U 435	U 46	U 47	U 45	U 53	U 49	U 53	U 50	U 525	U 52	U 49	U 53	U 435	U 43	U 39	U 39	U 43
	CNT	15	16	14	14	11	15	21	18	19	21	21	15	15	19	20	26	21	21	21	20	15	16	15	15
	UQ	47	46	46	37	47	44	51	48	53	52	54	56	56	59	59	56	56	54	56	60	58	48	52	47
	LQ	32	30	27	26	27	30	36	37	41	40	42	46	41	48	46	46	44	44	41	34	36	35	32	29
h'F2	MED													U 385	U 330	U 295	U 280								
	CNT										3	3	2	6	7	7	5	1							
	UQ													450	360	328									
	LQ													355	305	290	256								
h'F	MED	2505	246	2395	251	2505	253	243	240	240	235	231	2245	2305	235	230	237	2465	242	240	2455	248	250	260	250
	CNT	30	28	28	29	28	31	29	29	27	27	26	28	28	29	30	29	28	28	29	30	29	29	29	31
	UQ	269	262	258	274	274	265	256	260	250	245	240	230	238	240	237	245	254	251	256	263	263	263	270	260
	LQ	230	232	230	230	236	230	237	232	234	227	225	219	224	225	225	230	234	232	230	235	236	232	239	239
(M3000)F2	MED	U 290	U 290	U 300	U 290	U 310	U 295	U 310	U 315	U 320	U 3175	U 3125	U 3125	U 305	U 310	U 310	U 305	U 310	U 305	U 305	U 290	U 300	U 285	U 290	U 290
	CNT	12	13	12	13	9	14	18	18	19	20	20	14	14	19	18	23	21	21	21	17	11	13	14	15
	UQ	305	300	310	305	310	310	324	325	335	330	330	335	324	325	325	324	310	315	310	310	305	300	300	300
	LQ	280	280	285	270	270	280	295	305	310	310	290	300	280	295	300	300	300	295	300	280	280	280	275	280
foF1	MED										1	2	1	2	4		1		1						
	CNT																								
foE	MED					U 115	U 1475	170	190	190	200	215	220	220	2175	215	200	U 200	175	U 160					
	CNT					5	10	17	21	16	19	21	25	25	20	23	21	16	14	6	2	1	1		
h'E	MED									1165	114	117	115	110	112	115	120	120	120	E 145	E 135				
	CNT					132	120	118	1175	22	24	23	27	30	25	27	25	22	19	14	13	4	1		
foEs	MED	145				135				19								20	23	20	22	185	175	28	
	CNT	30	30	29	30	30	31	30	30	27	26	27	30	30	30	31	31	31	30	31	31	30	30	49	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

MARCH, 1961

TABLE 23

POINT BARROW, ALASKA (71.3N, 156.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 455	U 355	U 37	U 365	U 38	U 38	U 39	U 45	U 44	45	49	51	53	555	56	57	57	575	495	45	U 32	U 34	U 385	U 38
	CNT	8	12	9	8	13	13	13	11	17	20	24	24	25	28	29	28	30	28	28	23	18	13	12	14
	UQ	50	40	40	43	46	46	45	52	50	47	54	58	58	60	62	66	68	63	60	51	41	44	42	41
	LQ	34	32	28	34	34	32	34	37	38	39	42	42	43	46	47	50	52	52	46	36	28	30	31	35
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 2875	U 275	U 275	U 280	U 275	U 265	U 2675	2775	U 285	285	2925	295	290	2925	300	295	300	310	305	305	U 290	U 280	U 290	U 285
	CNT	8	10	8	7	12	13	10	10	15	19	24	24	25	28	29	27	29	28	25	21	16	12	11	13
	UQ	295	285	285	280	290	275	290	290	290	300	310	310	300	300	305	310	310	315	310	310	300	295	300	295
	LQ	280	265	265	255	260	250	260	275	280	265	280	280	280	280	285	290	290	290	300	300	280	270	275	270
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	565	56	52	43	34	36	335	35	35	345	27								14	28	30	345	375	46
	CNT	30	29	27	29	30	29	28	28	31	26	27	27	27	28	30	28	31	31	31	31	30	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

MARCH, 1961

TABLE 24

THULE, GREENLAND (76.2N, 68.8W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 30	U 28	U 245	U 29	U 29	U 29	U 34	U 31	U 42	U 41	U 44	U 46	U 45	U 45	U 47	U 44	U 43	U 42	U 45	U 41	U 40	U 37	U 34	U 34
	CNT	9	11	8	11	8	9	13	15	15	21	21	19	21	20	18	18	16	14	12	16	16	14	12	13
	UQ	38	29	30	38	40	36	38	39	45	46	54	55	52	54	52	49	50	58	53	46	48	42	41	38
	LQ	27	24	22	24	22	22	23	28	30	34	39	42	39	38	40	39	38	36	29	30	30	29	30	24
h'F2	MED											1													
	CNT																								
	UQ																								
	LQ																								
h'F	MED	2365	249	2565	250	250	254	250	249	235	245	241	240	2415	239	243	2425	247	244	250	256	2535	249	244	240
	CNT	26	27	26	27	27	26	25	28	27	27	28	29	26	25	25	22	24	25	26	24	26	26	26	25
	UQ	260	280	300	275	260	280	264	262	253	260	252	269	254	255	256	250	266	253	272	275	268	268	260	275
	LQ	230	237	240	235	233	240	229	240	227	228	230	231	230	222	232	235	236	230	230	234	230	240	230	234
(M3000)F2	MED	U 290	U 285	U 2875	U 295	U 300	U 290	U 300	U 4975	U 315	U 320	U 325	U 320	U 320	U 315	U 315	U 3075	U 3025	U 300	U 3075	U 305	U 300	U 295	U 3025	U 305
	CNT	7	10	6	11	7	8	13	14	13	19	21	18	20	19	16	18	16	12	12	15	14	13	12	11
	UQ	310	305	310	300	310	320	310	315	320	325	335	335	330	320	325	315	310	310	320	310	310	310	305	310
	LQ	275	270	265	275	260	260	280	280	300	300	310	305	315	305	300	290	295	295	290	285	290	290	300	295
foF1	MED																								
	CNT																								
foE	MED								115	135	1375	155	160	170	1625	115	E								
	CNT								7	9	12	10	11	15	14	9	10	3	2						
h'E	MED								E	120	115	1155	1115	114	114	115	114								
	CNT								7	11	22	12	16	17	19	19	16	4	2						
foEs	MED								205	17	17	195	20	20	185	41	41	21	30	375	19	26	19	21	
	CNT	28	28	28	27	27	27	27	28	28	28	28	27	28	26	26	25	25	27	26	20	27	27	27	27

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

FEBRUARY, 1961

TABLE 25

POINT BARROW, ALASKA (71.3N, 156.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 35		U 425	U 30	U 40	U 35	U 305	U 36	U 365	41	45	52	535	61	59	65	615	545	39	46	30	27	37	315
	CNT	7		4	5	5	5	4	6	12	16	20	19	22	21	26	27	26	24	23	19	13	11	10	8
	UQ	38		48	40	42	45	36	38	42	46	50	63	65	69	77	71	70	62	48	34	34	33	38	36
	LQ	22		30	25	26	32	28	31	32	36	42	46	46	46	46	47	48	44	36	25	20	21	30	28
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 285				U 285			U 275	U 285	U 300	305	315	315	315	315	315	310	U 320	300	U 300	U 300	U 2925	U 2925	U 285
	CNT	6		3	4	5	2	2	5	12	14	19	19	21	21	26	27	26	23	23	18	11	10	10	7
	UQ	300				290			280	290	300	315	335	330	330	325	325	325	325	320	310	310	305	315	315
	LQ	280				250			260	270	285	300	305	300	305	300	300	300	300	300	285	290	270	290	270
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	56	50	48	40	40	34	37	405	42	37	30	30							24	485	31	345	37	515
	CNT	27	26	28	25	25	27	27	26	25	24	23	21	23	22	26	27	27	27	28	28	28	28	28	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

FEBRUARY, 1961

TABLE 26

THULE, GREENLAND (76.6N, 68.8W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 31	30	30	34	34	28	32	35	30	365	435	47	46	465	455	47	43	41	35	375	33	37	35	36
	CNT	23	22	13	17	17	15	15	19	22	18	18	20	22	20	20	21	21	20	19	19	41	44	17	17
	UQ	42	37	39	38	38	33	35	38	41	44	46	52	53	55	50	56	56	50	50	48	46	49	42	40
	LQ	29	25	28	28	28	25	26	29	28	35	39	34	37	40	36	30	30	37	26	30	28	33	28	30
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	247	260	2505	2535	248	252	2445	2575	2405	230	2345	229	240	230	232	2325	235	248	256	238	238	234	2515	249
	CNT	31	31	30	30	29	30	28	30	30	27	30	29	31	31	30	30	29	29	29	29	30	31	30	28
	UQ	265	300	275	278	264	268	264	271	250	249	252	240	251	245	249	252	261	256	262	264	255	264	274	261
	LQ	233	250	242	239	232	231	232	244	231	223	220	226	220	220	223	226	226	221	238	227	225	226	230	234
(M3000)F2	MED	U 300	290	2875	295	2875	290	285	290	3025	290	300	300	305	300	310	300	310	310	295	295	305	300	295	295
	CNT	20	22	10	11	16	13	13	19	20	18	14	19	21	19	18	19	19	18	17	19	18	20	15	14
	UQ	310	300	595	310	300	305	300	305	310	315	320	320	320	320	320	310	320	310	305	305	315	310	310	305
	LQ	285	270	285	285	280	280	280	280	290	280	280	295	290	290	305	290	285	290	280	280	295	290	290	285
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED								195	40	215	18	18	32	31	36	22	195	17	24	23	20	15		
	CNT	31	31	31	31	31	31	29	30	30	31	30	30	31	31	29	30	30	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

JANUARY, 1961

TABLE 27

POINT BARROW, ALASKA (71.3N, 156.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 31	U 36	U 36	U 365	U 43	U 33	U 33	U 30	U 365	U 375	U 37	43	49	56	56	57	U 51	U 405	U 325	U 265	U 29	U 30	U 34	U 32
	CNT	2	4	8	6	7	8	9	7	12	12	17	21	26	28	29	25	27	24	20	20	15	14	3	3
	UQ		39	40	38	43	42	42	42	44	43	48	50	56	64	64	65	58	48	36	30	34	36	38	36
	LQ		34	32	30	30	31	31	28	31	34	34	38	41	46	49	50	45	35	28	23	26	24	31	30
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED			U 300	U 290	U 300	U 290	U 280	U 280	U 280	U 2875	U 4975	3105	310	315	315	310	305	U 3125	310	300	U 300	U 290		
	CNT	4	4	7	5	6	5	9	7	11	12	16	21	26	28	29	25	27	24	19	19	14	13	3	3
	UQ			315	260	310	300	300	280	290	300	305	320	315	325	325	325	320	320	320	310	305	300		
	LQ			295	285	290	280	280	280	280	270	290	300	300	300	300	305	300	290	300	290	295	270		
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	54	47	31	30	445	35	34	37	385	36	355	35		18				21	45	47	48	33	36	50
	CNT	31	29	31	27	30	29	27	25	28	25	28	28	29	29	30	29	29	29	31	30	30	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

JANUARY, 1961

TABLE 28

POLE STATION (90.0S)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 51	535	515	525	50	50	44	47	50	45	45	45	46	48	48	51	56	56	54	485	50	53	55	51
	CNT	23	22	24	24	23	26	20	22	16	18	19	21	20	24	27	27	27	26	23	26	23	20	25	24
	UQ	59	57	58	56	58	57	61	59	54	49	48	50	50	50	51	54	60	60	59	55	57	58	60	59
	LQ	47	48	44	42	44	45	45	45	43	43	39	40	44	44	45	48	51	51	48	45	40	48	49	47
h'F2	MED	U 350	385	370	395	360	395	400	450	U 420	510	595	580	585	470	380	355	365	380	365	430	3925	360	U 340	U 350
	CNT	11	17	22	20	20	24	17	22	18	14	12	11	10	14	11	18	20	23	17	19	16	10	16	10
	UQ	380	460	440	430	380	480	520	410	520						705	430	415	430	480	520	440	420	365	430
	LQ	325	340	350	340	340	350	365	330	400	415	450	385	365	380	350	325	335	330	350	325	360	345	360	315
h'F	MED	220	2225	2325	220	220	2175	215	210	205	210	2275	235	245	250	240	240	240	235	230	240	245	230	220	220
	CNT	28	26	28	28	29	28	27	28	27	25	20	18	20	23	27	27	26	28	27	28	25	23	26	29
	UQ	230	245	240	230	230	230	220	220	215	220	240	275	260	275	270	255	240	245	250	260	260	250	245	230
	LQ	215	215	210	215	210	210	200	200	200	190	210	240	230	225	230	230	225	225	220	230	220	215	210	210
(M3000)F2	MED	U 290	2875	280	4825	275	270	2575	280	U 250	U 250	235	2625	270	285	295	290	290	285	290	295	285	295	U 300	U 305
	CNT	15	16	20	18	17	14	10	13	9	13	10	14	17	21	24	26	23	21	19	18	20	17	15	13
	UQ	310	300	495	300	290	300	285	300	270	290	280	300	310	305	320	305	305	295	300	305	300	305	305	312
	LQ	280	270	270	260	260	250	250	245	230						280	275	275	270	265	295	270	275	290	275
foF1	MED	U 380	U 370	U 390	385	380	U 390	U 385	380	380	U 380	U 390	U 385	U 390	385	400	370	U 380	380	380	390	390	395	U 400	U 395
	CNT	11	16	20	20	23	23	22	23	23	19	11	14	9	10	10	10	15	19	16	17	14	8	14	6
foE	MED	260	250	260	260	260	260	260	260	270	265	U 300	D 295	295	300	295	290	2675	260	260	280	U 280	2675	280	2575
	CNT	25	25	23	28	29	27	28	30	26	25	20	20	15	20	23	21	22	26	29	29	28	26	26	24
h'E	MED	101	101	103	105	103	101	103	103	103	103	103	101	102	101	103	103	103	103	103	103	103	101	101	101
	CNT	29	29	27	29	29	28	30	31	29	28	24	21	20	24	25	21	25	30	30	30	30	29	30	28
foEs	MED	35	52	35	24		24				26				33						24	495	31	44	46
	CNT	31	31	31	31	31	31	31	31	31	31	27	30	30	31	31	30	31	31	31	31	30	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

JANUARY, 1961

TABLE 29

FT. MONMOUTH, NEW JERSEY (40.4N, 74.1W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	325	32	33	34	32	[illegible]	255	355	[illegible]	85	102	1115	[illegible]	1055	107	105	100	925	80	70	48	41	36	34
	CNT	24	22	23	23	24	24	16	22	27	28	26	26	25	28	27	28	27	26	26	26	25	26	25	23
	UQ	36	36	38	40	38	35	30	38	77	93	108	120	116	116	115	113	108	99	87	67	56	48	42	40
	LQ	28	29	31	32	30	24	22	32	61	78	96	111	100	100	98	98	89	86	73	55	41	33	32	32
h'F2	MED														U 268										
	CNT											1	3	2	2	5	3								
	UQ														315										
	LQ														254										
h'F	MED	E 295	E 300	U 290	U 272	U 293	U 270	E 290	245	227	221	220	220	219	221	227	2275	223	221	220	220	240	U 263	U 270	E 283
	CNT	26	26	27	27	27	28	22	24	27	28	26	26	25	28	27	28	27	26	27	26	27	27	27	26
	UQ	315	315	300	288	288	318	330	260	235	224	225	225	229	230	236	234	232	230	22	230	260	293	300	300
	LQ	277	280	265	260	248	248	260	240	220	217	212	15	215	218	220	224	21	215	215	219	232	250	259	270
(M3000)F2	MED	290	285	285	290	4	2825	2875	310	343		330	325	320	3125	315	315	315	315	320	3175	300	295	295	290
	CNT	23	21	23	22		20	14	21	27	20	26	26	22	28	27	28	27	26	26	26	23	26	25	22
	UQ	295	295	300	300	3	305	330	320	345	14	340	330	325	320	325	330	330	320	330	330	315	305	300	300
	LQ	280	275	270	285	28	280	295	295	325	31	315	315	300	305	305	310	310	310	310	305	295	290	280	275
foF	MED																								
	CNT											1	1	1											
foE	MED										270	2975	310	315	310	3025	290								
	CNT										11	18	19	19	20	14	16	2							
h'E	MED									115	E 120	U 120	E 1205	E 1195	115	118	E 1195	E 135							
	CNT									5	15	19	20	20	25	18	14	5							
foEs	MED					17																			
	CNT	27	26	26	26	27	27	23	25	27	26	24	25	23	28	26	27	27	25	25	26	26	26	26	26

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. DECEMBER, 1960

TABLE [illegible]

FT. MONMOUTH, NEW JERSEY (40.4N, 74.1W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	385	43	415	37	[illegible]	34	30	82	915	100	120	112	110	110	109	105	94	76	655	56	50	445	42
	CNT	23	24	17	20	17	18	17	24	27	28	29	29	27	28	28	30	29	28	29	26	28	26	24	22
	UQ	48	45	46	44	40	35	30	70	86	100	107	117	120	117	116	116	111	98	84	70	62	52	50	48
	LQ	35	34	34	34	28	27	30	50	69	86	94	100	104	104	104	98	94	86	71	57	44	40	39	37
h'F2	MED													U 290											
	CNT											1	2	4	5	[illegible]	1	2							
	UQ													260											
	LQ													240											
h'F	MED	E 285	U 287	E 2785	U 270	U 265	E 271	E 2875	238	230	225	220	220	225	225	2245	234	2245	217	233	2365	245	U 261	U 268	U 280
	CNT	26	27	26	26	23	24	26	25	27	28	29	29	27	28	28	30	28	28	29	28	28	26	27	26
	UQ	315	310	310	300	285	300	300	252	235	234	230	232	232	230	238	238	232	228	244	258	268	300	305	310
	LQ	270	265	270	253	253	255	261	234	225	214	210	214	215	220	225	223	222	210	216	225	240	250	253	270
(M3000)F2	MED	2825	2825	285	290	295	U 290	290	330	335	325	320	3175	315	310	310	315	315	310	3075	305	295	290	290	290
	CNT	22	22	17	17	15	16	17	23	27	28	29	28	27	28	28	29	28	27	28	24	25	23	22	18
	UQ	290	290	290	300	305	290	295	335	345	340	325	325	320	315	320	320	320	315	310	315	310	300	295	300
	LQ	275	280	280	285	280	280	280	310	325	315	310	310	305	300	305	310	310	310	295	285	290	285	275	280
foF1	MED															1									
	CNT															1									
foE	MED												310	3225	330	320	300								
	CNT										1	4	11	12	15	13	8	2	1						
h'E	MED										110	110	115	U 320	118	119	117	1185	120						
	CNT								3		9	7	13	13	17	16	12	8	5						
foEs	MED																								
	CNT	27	27	27	26	26	26	25	24	27	28	27	26	26	28	28	29	29	27	28	28	29	28	27	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. NOVEMBER, 1960

TABLE 31

FT. MONMOUTH, NEW JERSEY (40.4N, 74.1W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	53	50	45	43	365	35	425	69	82	V1	1005	102	107	110	106	105	1065	102	88	77	66	62	55	555
	CNT	19	17	19	13	14	14	22	28	29	30	28	27	29	29	30	30	30	29	29	26	27	29	23	20
	UQ	61	56	53	50	46	42	49	74	94	103	109	114	118	118	118	119	114	107	94	78	73	68	63	63
	LQ	43	44	32	32	28	32	36	58	64	76	78	86	91	98	92	98	97	91	83	70	55	53	43	46
h'F2	MED										U 248	2825	U 295	2785	U 300	U 305	U 320								
	CNT								1	1	9	12	9	10	9	5	5	2							
	UQ										278	316	393	335	364	435	435								
	LQ										242	246	264	247	262	262	256								
h'F	MED	U 265	U 270	E 2925	U 275	E 300	U 270	2535	E 240	228	220	211	210	210	221	224	230	234	230	225	235	240	256	U 265	U 265
	CNT	27	26	28	29	27	25	24	28	29	30	28	27	28	29	30	30	30	29	29	28	27	28	28	27
	UQ	315	300	320	308	320	303	263	243	235	230	218	220	220	232	237	235	240	239	235	240	255	278	310	300
	LQ	255	255	262	260	259	252	240	229	222	212	200	200	200	219	220	222	225	224	220	229	233	249	252	255
(M3000)F2	MED	290	290	285	285	U 295	295	3075	335	325	320	315	310	305	305	300	305	310	310	305	3025	295	290	290	290
	CNT	19	15	16	12	13	11	20	28	29	30	28	27	28	29	30	30	30	28	29	26	27	25	20	18
	UQ	295	300	290	290	300	310	320	340	335	330	320	310	310	310	305	315	315	315	315	310	300	295	295	295
	LQ	280	270	275	280	275	280	300	325	320	310	305	305	300	295	295	300	305	305	300	295	285	280	280	280
foF1	MED																								
	CNT								1	1	1	2	3	1	3	2	1	1							
foE	MED									285	3125	3325	335	340	330	330	305								
	CNT								1	9	14	12	15	19	13	15	13								
h'E	MED								115	115	1125	1135	115	115	115	120	120	120	12	2					
	CNT								8	14	24	24	23	25	26	26	22	12							
foEs	MED																								
	CNT	27	27	28	29	28	26	24	28	29	30	28	27	28	29	30	30	30	30	30	29	28	28	29	27

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. OCTOBER, 1960

TABLE 32

AHMEDABAD, INDIA 123.0N, 72.6E TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	109	100	100	80	65	60	70	90	110	115	128	143	U 155	160	160	160	D 160	D 160	157	152	149	142	124	129
	CNT	27	26	26	27	25	26	24	23	21	30	27	25	29	26	29	27	30	28	26	24	26	27	25	25
	UQ																								
	LQ																								
h'F2	MED								255	255	250	295	320	355	350	350	335	305	280						
	CNT								9	18	28	26	25	28	25	25	24	30	17	1					
	UQ																								
	LQ																								
h'F	MED	295	275	250	230	255	270	255	240	235	230	230	230	230	240	240	240	245	250	260	270	290	285	295	305
	CNT	29	27	29	28	29	26	27	26	25	29	26	25	25	25	25	26	28	28	28	30	29	30	28	29
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED								490	490	505	535	560	570	550	540	510	490	480						
	CNT								9	21	29	25	25	27	25	23	26	26	15	2					
foE	MED									320	350	385	400	410	400	390	365	330	290	205	145				
	CNT						1	21	23	24	27	25	25	25	24	21	25	29	28	22	4	1			
h'E	MED							110	110	110	110	110	110	110	110	110	110	110	110	110	105				
	CNT							21	23	23	27	25	22	22	23	21	25	28	26	21	4				
foEs	MED	30	25	30	30	30	30	30	45	42	43	40	G	G	G	G	G	36	35	30	30	35	30	30	30
	CNT	29	26	27	27	28	28	26	26	25	30	30	25	26	27	28	28	29	28	27	30	29	29	28	28

SWEEP 0.6 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION. APRIL, 1960

TABLE 33

EL CERRILLO, MEXICO (19.3N, 99.5W)

TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	39	35	32	30	30	30	50	94	118	128	132	130	126	129	124	117	114	110	88	68	56	49	42
	CNT	28	30	29	30	29	29	31	30	29	29	29	29	29	28	28	29	28	27	27	28	27	28	28	29
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UD																								
	LQ																								
(M3000)F2	MED	290	290	300	280	270	265	280	300	330	330	325	310	300	290	290	290	290	300	310	320	320	315	310	305
	CNT	28	30	29	30	29	29	31	30	29	29	29	29	29	28	28	29	28	27	27	28	27	28	28	29
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	44	41	41	44	44	40	46	41	47	40	40	41	44	43	44	41	42	38	40	44	44	44	42	41
	CNT	24	25	27	24	26	24	20	26	29	29	29	29	28	28	28	29	28	27	25	26	27	24	23	22

SWEEP 1.0 MC TO 25.0 MC IN 18 SECONDS.

DECEMBER, 1959

TABLE 34

SOTTENS, SWITZERLAND (46.6N, 6.7E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	45	46	42	41	40	37	32	37	66	89	98	93	96	97	97	95	92	87	76	67	57	48	45	44
	CNT	26	30	28	28	28	28	28	25	28	22	22	21	18	20	18	18	28	23	28	27	29	28	28	28
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	300	300	300	300	300	320	320	320	360	350	370	360		350		350	350	360	350	350	340	320	300	310
	CNT	26	30	28	28	27	27	28	25	24	15	9	3		3		5	6	7	18	22	28	27	27	26
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED									190	240	280	300	300	310	300	280	240	210						
	CNT									6	21	26	28	28	28	28	26	22	7						
h'E	MED									140	100	100	100	100	100	100	100	100	100						
	CNT									6	21	26	29	28	28	28	46	22	7						
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

NOVEMBER, 1959

TABLE 35

SOTTENS, SWITZERLAND (46.6N, 6.7E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	47	48	46	47	44	43	40	55	72	85	86	88	88	90	89	90	86	85	79	69	65	58	56	50
	CNT	29	27	28	27	25	29	28	25	27	25	23	22	24	27	23	27	28	27	24	28	26	26	27	26
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LD																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	300	300	300	310	310	320	320	360	360	370	370	370	370	370	370	370	370	380	370	370	360	340	320	310
	CNT	29	27	28	27	23	26	28	24	26	23	23	22	24	26	22	27	28	27	23	27	26	26	26	25
	UQ																								
	LQ																								
foF1	MED									320	380	440	410	440	450	445	420	390							
	CNT									5	14	19	22	24	17	12	14	5							
foE	MED									230	270	300	320	310	330	310	280	260	230	220					
	CNT								1	13	25	28	25	23	16	18	21	19	14	4	1				
h'E	MED									100	100	100	100	100	100	100	100	100	100	100					
	CNT								1	13	25	28	25	23	16	18	21	19	14	4	1				
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

OCTOBER, 1959

TABLE 36

WILKES STATION (66.3S, 110.5E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	57	58	U 60	60	U 66	U 68	U 65	U 64	U 66	U 60	60	U 58	U 58	U 55	52	U 46	U 46	U 47	U 38	U 46	U 48	51	57	60
	CNT	26	27	24	25	17	22	22	25	22	23	28	26	26	26	25	25	23	23	23	21	25	25	25	21
	UQ																								
	LQ																								
h'F2	MEO																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	240	230	230	220	235	230	230	230	240	245	250	270	280	275	270	250	245	245	250	245	260	260	260	250
	CNT	25	26	24	17	12	16	16	17	24	27	25	26	27	28	28	28	24	25	23	24	26	25	26	23
	UQ																								
	LQ																								
(M3000)F2	MED	250	250	U 250	250	U 235	245	U 235	U 235	245	230	250	U 245	U 260	U 260	U 260	U 260	U 265	U 260	U 255	U 270	U 270	275	275	270
	CNT	22	22	20	16	13	16	19	18	17	20	24	21	20	22	18	17	17	14	17	14	16	21	19	18
	UQ																								
	LQ																								
foF1	MEO	400	420	U 440	450	440	450	430	420	420	U 390	380	U 330											U 390	
	CNT	20	24	26	17	16	17	17	20	23	23	16	10	1										3	9
foE	MED	270	300	320	320	330	325	330	U 310	290	265	230	U 200	U 156	E 100	E 100				E 100	E 100	E 100	155	200	U 240
	CNT	26	26	26	22	18	19	16	16	22	27	24	21	22	21	27				22	22	20	21	23	26
h'E	MED	110	110	110	110	110	110	110	110	110	110	110	115	120	E	E				E	E	E	120	110	110
	CNT	24	25	27	22	18	21	16	15	23	26	23	18	14	20	27				22	22	18	19	22	25
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 15 SEC. OR 30 SEC.

OCTOBER, 1959

TABLE 37

PRUHONICE, CZECHOSLOVAKIA (50.0N, 14.6E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	54	51	48	45	46	52	64	62	78	86	89	93	94	94	94	90	88	90	88	79	70	63	59	54
	CNT	28	28	28	27	24	27	27	25	23	25	26	25	23	24	24	26	24	24	24	27	26	23	26	28
	UQ																								
	LQ																								
h'F2	MED									325	340	360		320	345										
	CNT							3	3	4	8	8	2	6	4										
	UQ																								
	LQ																								
h'F	MED	320	395	300	300	300	255	240	230	220	220	220	220	220	225	230	240	245	245	240	250	240	270	300	325
	CNT	27	26	25	23	22	23	24	24	19	20	20	22	23	19	21	26	24	25	26	28	26	24	25	27
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED									480	500	520		520	550										
	CNT							3	3	4	8	8	2	6	4										
foE	MED						200	270	300	330	340	350	350	360	340	330	290	250	220						
	CNT						6	9	12	10	14	20	18	18	15	14	14	16	5						
h'E	MEQ							100	100	100	105	100	100	100	100	100	100	100							
	CNT							10	13	12	14	20	18	19	16	14	15	16	2						
foEs	MEQ	E	E	E	E							E		E											
	CNT	13	22	27	25	30	23	27	32	35	36	35	35	36	32	34	36	25	23	23	30	26	39	24	
						11	14	22	22	19	25	27	23	23	22	24	24	26	19	17	14	10	5	8	

SWEEP 1.0 MC TO 18.0 MC.

SEPTEMBER, 1959

TABLE 38

CHRISTCHURCH, NEW ZEALAND (43.6S, 172.8E)

TIME 180.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U	U	U	U	U	U	U		U	U	U	U	U	U	U	U	U	U	U	U
	CNT	70	70	66	62	57	52	51	63	78	85	102	105	110	110	105	104	100	99	100	92	87	81	76	74
	UQ	27	24	26	23	25	24	26	24	23	21	23	25	26	25	27	22	23	19	13	17	22	15	16	23
	LQ																								
h'F2	MEQ										U	420	350	370	290	290	U		U						
	CNT										340	5	7	8	8	8	310		280						
	UQ										1						3		1						
	LQ																								
h'F	MED	290	280	270	270	290	290	280	250	240	230	230	220	230	220	230	230	240	240	240	240	250	260	270	290
	CNT	25	26	27	25	24	24	25	26	25	25	27	25	28	28	28	26	28	28	27	27	28	27	26	27
	UQ																								
	LQ																								
(M3000)F2	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	240	240	240	235	240	245	250	270	285	275	275	275	275	270	270	270	265	265	270	255	250	240	240	240
	UQ	26	23	25	22	23	23	26	23	22	20	22	25	26	24	27	22	22	16	12	16	21	15	13	20
	LQ																								
foF1	MED											U	U	U	U	U	U								
	CNT											490	540	520	480	490	490								
												5	4	4	5	5	3								
foE	MED							U																	
	CNT							160	220	280	320	350	370	380	380	370	350	310	270	200					
								4	24	25	26	23	21	24	24	28	27	27	28	25					
h'E	MEQ							U																	
	CNT							120	115	105	100	100	100	100	100	100	105	105	110	140					
								2	14	25	25	25	23	26	27	28	28	27	28	14					
foEs	MED	E	E	E	E	E	E	E	G		G	G		G	G	G	G	G	G	G	E	E	E	E	E
	CNT	16	16	17	17	17	16	16		29			38								17	17	17	16	16
		26	26	27	26	26	26	24	25	26	26	27	25	27	28	29	28	28	28	28	26	28	27	27	27

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS.

SEPTEMBER, 1959

TABLE 39

GRAZ, AUSTRIA (47.1N, 15.5E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U		U		85	84	87	91	89	89	84	85	85	83	85	88	87	84	79	U
	CNT	68	64	63	59	56	60	68	78	27	26	26	23	26	27	25	26	25	27	27	24	20	24	22	17
	UQ	25	27	20	23	24	24	24	25	89	90	93	93	94	93	91	92	90	89	89	89	92	87	84	77
	LQ	70	70	66	64	61	64	76	84	91	97	80	84	82	83	79	81	79	76	80	79	84	74	76	61
		63	60	61	57	51	56	62	67	71	77														
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MEQ																								
	CNT																								

SWEEP 2.0 MC TO 18.0 MC IN 50 SECONDS.

AUGUST, 1959

TABLE 40

SOTTENS, SWITZERLAND (46.6N, 6.7E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	67	63	62	60	55	55	59	68	76	76	78	79	82	84	78	84	81	75	78	79	81	76	77	68
	CNT	21	27	16	23	20	22	22	18	17	16	16	16	17	21	19	21	17	15	11	22	9	10	8	14
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	300	290	290	290	300	300	330	330	340	320	330	320	300	310	300	310	310	310	320	330	320	320	310	300
	CNT	19	27	16	19	15	16	21	14	16	15	13	13	17	21	18	20	14	12	10	21	7	8	7	12
	UQ																								
	LQ																								
foF1	MEQ							380	450	520	540	530	570	590	590	580	590	540	530	510	410				
	CNT							16	14	12	16	13	11	15	19	19	21	22	15	13	9				
foE	MED							230	270	310	340	360	360	370	380	370	360	350	320	280	250				
	CNT							19	26	22	27	23	20	20	19	21	22	23	24	23	11				
h'E	MEQ							100	100	100	100	100	100	100	100	100	100	100	100	100	110				
	CNT							19	26	22	27	23	20	20	19	21	22	23	24	23	11				
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

AUGUST, 1959

TABLE 41

CHRISTCHURCH, NEW ZEALAND (43.6S, 172.8E)

TIME 180.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 55	U 57	U 52	U 52	U 47	U 44	U 38	U 41	U 71	U 90	U 101	U 109	U 111	U 111	U 110	U 105	U 100	U 95	U 88	U 82	U 72	U 65	U 62	U 59
	CNT	28	24	24	25	28	25	26	26	18	19	21	24	21	22	21	21	15	14	19	24	23	24	26	25
	UQ																								
	LQ																								
h'F2	MED									U 480	U 660	U 530	U 360	U 320	U 310	U 270	U 250	U 330							
	CNT									1	1	1	2	2	4	4	1	1							
	UQ																								
	LQ																								
h'F	MED	U 280	290	270	280	270	260	250	250	240	240	230	230	230	230	230	230	240	240	230	240	240	260	270	270
	CNT	22	20	20	25	25	22	22	24	26	27	27	26	25	24	27	26	27	26	26	25	26	25	25	19
	UQ																								
	LQ																								
(M3000)F2	MED	U 245	U 250	U 245	U 245	U 255	U 255	U 260	U 265	U 285	U 295	U 295	U 295	U 290	U 285	U 275	U 290	U 280	U 285	U 275	U 270	U 255	U 255	U 245	U 250
	CNT	28	22	21	23	25	25	25	26	16	19	18	24	20	22	18	20	15	12	18	23	23	24	23	24
	UQ																								
	LQ																								
foF1	MED									U 400	U 370	U 420	U 440	U 500	U 490	U 490	U 400	U 430							
	CNT									1	1	1	2	2	4	4	1	1							
foE	MED								U 170	220	280	320	340	350	350	340	360	290	240	U 170					
	CNT								8	26	25	26	25	26	21	25	27	26	24	11					
h'E	MED								U 150	110	105	100	100	100	100	100	105	100	105	U 105					
	CNT								3	11	25	25	27	27	24	25	24	24	13	2					
foEs	MED		E	E	E	E	E	E	E	G						G				G	E	E	E	E	E
	CNT	29	17	19	17	17	16	16	17		29	33	36	40	38		34	31	26		17	17	17	17	18
		27	25	26	24	27	26	26	23	27	27	25	27	27	26	27	27	27	27	28	27	27	27	27	26

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS.

AUGUST, 1959

TABLE 42

GRAZ, AUSTRIA (47.1N, 15.5E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	72	70	66	63	61	67	74	81	79	80	80	84	82	82	84	82	80	79	78	82	83	84	78	76
	CNT	18	19	27	21	27	25	25	22	22	15	20	23	24	25	20	24	19	19	21	24	24	18	19	19
	UQ	73	75	70	68	65	71	79	86	90	92	90	93	90	89	88	87	84	83	84	87	88	87	85	79
	LQ	64	65	60	58	54	58	67	65	71	78	77	71	77	76	78	75	77	76	76	77	73	78	76	68
h'F2	MEO																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEO																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MEO																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MEO																								
	CNT																								

SWEEP 2.0 MC TO 18.0 MC IN 50 SECONDS.

JULY, 1959

TABLE 43

CHRISTCHURCH, NEW ZEALAND (43.6S, 172.8E)

TIME 180.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	U 46	U 45	U 45	U 42	U 40	U 38	U 34	U 31	U 59	U 90	U 100	U 108	U 111	U 111	U 113	U 104	U 100	U 96	U 84	U 72	U 62	U 52	U 48	U 48
	CNT	29	26	28	29	29	29	27	29	23	16	21	24	22	20	22	24	18	21	25	28	28	29	27	28
	UQ																								
	LQ																								
h'F2	MEO													U 350		U 350	U 520	U 450							
	CNT													1		4	2	1							
	UQ																								
	LQ																								
h'F	MEO	U 300	U 300	U 300	290	U 280	260	250	260	240	230	230	230	240	230	230	240	230	230	220	240	240	250	270	300
	CNT	26	23	27	27	26	29	23	23	27	27	28	26	27	25	24	27	27	27	27	26	27	28	25	27
	UQ																								
	LQ																								
(M3000)F2	MEO	U 245	U 245	U 250	U 250	U 255	U 265	260	265	U 290	U 305	U 295	U 305	U 295	U 285	U 295	U 300	U 280	U 290	U 275	U 275	U 275	U 265	U 250	U 260
	CNT	23	19	22	23	23	23	23	23	19	12	16	18	18	15	16	15	10	14	18	21	23	22	20	22
	UQ																								
	LQ																								
foF1	MED										U 360	U 380	U 410	U 470	U 460	U 450	U 460	U 360							
	CNT										1	1	1	2	1	3	2	1							
foE	MEO									U 180	260	290	320	U 330	U 330	U 320	U 300	U 260	U 200						
	CNT									42	26	26	24	18	17	20	22	14	19						
h'E	MEO									U 100	110	105	105	105	105	105	105	105	105						
	CNT									1	17	20	21	21	18	17	18	14	11						
foEs	MEO	E		E	E	E	E	E	E												E	E	E	E	E
	CNT	17	30	17	18	17	16	16	17	19	46	31	36	53	42	41	41	40	29	19	16	16	16	16	17
		23	23	23	23	23	23	22	23	22	23	23	24	24	25	24	24	25	25	25	25	24	24	23	24

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS.

JULY, 1959

TABLE 44

MAWSON (67.6S, 62.9E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO								85	95	115	112	102	105	85										
	CNT							3	7	7	7	14	15	15	13	2									
	UQ																								
	LQ																								
h'F2	MEO																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEO								250	260	250	250	250	250	250										
	CNT		1					3	7	7	7	14	15	15	13	2									
	UQ																								
	LQ																								
(M3000)F2	MEO								300	300	300	300	300	300	300										
	CNT		1					3	7	7	7	14	15	15	13	2									
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MEO																								
	CNT																								
h'E	MEO																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 15 SECONDS.

JULY, 1959

TABLE 45

SYOWA BASE, ANTARCTICA 69.0S, 39.6E.

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	45	37	U 46	35	39	42	42	38	42	42	50	59	78	86	94	94	92	80	70	46	32	26	26	31
	CNT	2	4	2	5	2	3	5	4	3	8	7	11	10	11	12	11	12	19	15	10	2	1	2	4
	UQ		46		36		46	46	42	48	50	58	62	86	96	96	98	98	89	83	54				45
	LQ		34		31		34	35	32	40	39	45	54	72	73	85	87	81	67	49	43				22
h'F2	MEQ										320	400	300	295	280	300	325								
	CNT										1	2	2	4	5	5	3								
	UQ																								
	LQ																								
h'F	MED	445	390	300	430	400	430	495	400	300	290	300	270	260	240	240	245	245	255	230	290	300	270	370	335
	CNT	4	4	4	5	4	4	6	8	5	5	6	9	7	10	12	14	17	18	19	11	3	1	4	3
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED	320	290	300	310	320	320	380	240													300	280	290	320
	CNT	7	9	3	4	3	2	1	1													1	3	8	11
h'E	MEQ																								
	CNT																								
foEs	MEQ	35	40	44	40	40	36	40	36	38	46		36	31			39	33	18		23	30	32	34	34
	CNT	15	16	12	14	12	9	11	11	7	1		2	1			1	1	1		1	3	12	13	16

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS.

JULY, 1959

TABLE 46

CHRISTCHURCH, NEW ZEALAND (43.6S, 172.8E)

TIME 180.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 49	U 48	U 46	U 45	U 46	U 43	40	36	U 64	U 92	U 103	U 111	U 115	U 116	U 117	U 107	U 108	U 100	U 84	U 77	U 67	58	U 55	U 48
	CNT	28	22	24	30	27	26	26	30	24	12	11	17	22	17	11	8	6	11	14	26	28	26	20	23
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	280	290	300	290	280	270	250	250	240	230	230	230	230	230	230	240	230	230	230	240	250	250	260	260
	CNT	26	22	25	27	29	28	25	26	30	29	29	29	29	28	25	25	29	26	24	28	28	25	26	22
	UQ																								
	LQ																								
(M3000)F2	MEQ	U 240	U 240	U 245	U 250	U 255	U 265	270	270	U 280	U 300	U 295	U 295	U 295	U 280	U 285	U 275	U 270	U 280	U 275	U 275	U 275	265	265	U 250
	CNT	28	22	23	28	26	26	26	29	23	11	8	17	21	17	8	6	5	9	17	25	27	25	18	23
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MED									180	250	290	310	U 320	U 330	310	290	250	180						
	CNT									25	27	27	28	24	24	23	19	18	17						
h'E	MED									U 150	110	100	100	100	100	100	105	105	U 105						
	CNT									5	19	25	30	30	29	23	21	16	3						
foEs	MED	E 16	E 16	E 16	E 16	E 16	E 17	E 20	E 16	G	26	31	36	40	42	40	34	30	22	E 17	E 17	E 16	E 17	E 16	E 18
	CNT	30	29	29	30	30	30	30	9	30	30	30	30	30	30	29	29	29	26	29	29	29	29	29	29

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS.

JUNE, 1959

TABLE 47

SYOWA BASE, ANTARCTICA 69.0S, 39.6E.

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	38	40	38	36	37	38	40	42	44	43	52	67	83	94	98	98	83	80	63	43	29	34	37	38
	CNT	9	12	8	8	7	9	14	15	12	16	18	20	19	18	19	18	22	24	22	21	11	3	5	6
	UQ	44	52	53	40	40	46	50	53	47	53	55	74	88	101	102	101	96	93	69	52	35	37	50	42
	LQ	32	36	30	33	27	28	31	34	36	39	49	59	71	84	88	80	66	61	45	36	23	34	22	26
h'F2	MED										430	335		315	280	300	275	330							
	CNT										2	3		2	5	1	1	3							
	UQ																								
	LQ																								
h'F	MED	350	310	370	400	390	430	420	390	340	310	280	265	255	235	250	245	250	265	250	280	320	350	400	420
	CNT	13	14	9	12	11	9	15	16	15	16	18	22	18	17	24	28	24	27	26	22	13	3	7	10
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MED	280	330	310	280	290	330	270	345	250	245	175	160	185	200							305	315	300	310
	CNT	8	12	10	5	3	3	4	2	2	1	2	3	2	2						1	4	5	6	10
h'E	MEQ																								
	CNT																								
foEs	MEQ	36	38	39	37	38	42	44	38	38	44	36	31	36	25	31		24	30	30	47	32	32	36	36
	CNT	19	17	20	20	17	16	17	16	11	9	3	4	2	2	2		3	2	4	6	6	11	16	16

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS.

JUNE, 1959

TABLE 48

WINNIPEG, CANADA (49.9N, 97.4W)

TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	51	50	47	45	45	48	55	57	60	62	65	65	66	67	67	68	70	70	70	73	70	68	61	56
	CNT	25	24	24	25	28	28	26	28	27	28	27	27	28	28	28	28	29	28	28	27	27	27	28	26
	UQ																								
	LQ																								
h'F2	MEQ							U 470	510	500	510	550	520	560	550	520	500	480	430	410					
	CNT							9	19	18	16	21	24	26	26	25	24	22	19	10					
	UQ																								
	LQ																								
h'F	MEQ	310	330	340	320	340	300	270	240	230	230	220	230	220	230	230	230	230	240	250	270	290	290	290	300
	CNT	24	22	20	21	24	23	22	25	23	19	18	21	15	18	18	17	20	21	18	23	26	27	27	23
	UQ																								
	LQ																								
(M3000)F2	MEQ	U 260	U 260	U 250	U 260	250		270	250	250	250	240	240	240	230	240	240	240	250	260	270	U 260	260	U 260	U 260
	CNT	8	7	8	5	11	4	12	13	15	14	16	16	14	17	19	21	21	21	15	10	8	10	9	7
	UQ																								
	LQ																								
foF1	MED							390	430	480	500	510	520	530	540	530	530	510	500	470					
	CNT							11	20	21	22	25	27	27	27	27	27	21	20	10					
foE	MED						200	250	300	330	360	390	400	400	400	390	380	360	330	290	250	200			
	CNT						15	21	27	25	22	18	18	15	16	15	15	20	24	20	19	17			
h'E	MED						110	110	105	100	100	100	100	100	100	100	100	100	100	105	110	U 140			
	CNT						7	15	24	24	21	20	22	17	16	17	19	21	21	19	15	5			
foEs	MEQ																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

MAY, 1959

TABLE 49

CHRISTCHURCH, NEW ZEALAND (43.6S, 172.8E)

TIME 180.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	58	U 57	56	56	53	53	46	48	U 82	U 106	U 112	U 120	U 127	U 130	U 122	U 125	U 123	U 99	U 95	U 86	U 80	U 70	U 65	U 59
	CNT	26	29	30	30	29	30	30	29	22	14	15	17	12	11	13	7	4	6	10	20	26	26	24	25
	UQ																								
	LQ																								
h'F2	MED														U 290										
	CNT														1										
	UQ																								
	LQ																								
h'F	MED	270	280	270	260	270	250	240	250	240	230	230	230	220	230	240	240	240	230	220	240	240	240	250	260
	CNT	24	26	27	28	28	29	29	31	31	31	29	29	29	31	31	31	31	30	30	29	31	28	28	25
	UQ																								
	LQ																								
(M3000)F2	MED	250	U 240	250	250	260	275	260	270	U 300	U 290	U 285	U 285	U 275	U 280	U 285	U 280	U 285	U 280	U 265	U 270	U 275	U 260	U 255	250
	CNT	25	29	30	30	29	30	30	29	21	13	11	16	11	11	13	7	2	6	9	20	26	25	23	24
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								U 150	220	280	310	340	350	350	330	310	270	200						
	CNT								3	30	29	28	27	24	26	27	27	28	25						
h'E	MED								U 110	110	105	105	105	100	105	105	110	110	100						
	CNT								2	18	25	29	22	25	24	24	22	19	10						
foEs	MED	E 17	E 16	E 16	E 16	E 16	E 13	E 14	E 16	G	G	31	G	G	G	G	G	G	U	E 17	E 16	E 16	E 16	E 16	E 16
	CNT	30	31	31	31	31	31	31	31	31	31	30	29	30	30	31	31	31	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS.

MAY, 1959

TABLE 50

MAWSON (67.6S, 62.9E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	1	1	1	1	2	85	90	100	110	115	116	110	110	90	70		1	1	1		1		1	1
	CNT					6	6	10	13	14	18	18	22	21	17	7	1								
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	1	1	1	1	2	280	250	250	250	250	250	250	250	250	I 250		1	1	1		1			
	CNT					6	6	10	13	14	18	18	22	21	17	7	1								
	UQ																								
	LQ																								
(M3000)F2	MED	1	1	1	1	2	310	305	310	310	310	300	295	300	320	310		1	1	1		1		1	1
	CNT					6	6	10	13	14	18	18	22	21	17	7	1								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 15 SECONDS.

MAY, 1959

TABLE 51

SYOWA BASE, ANTARCTICA (69.0S, 39.6E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	42	37	39	37	44	44	46	52	54	54	59	75	89	99	103	104	D 100	D 96	78	69	44	40	35	34
	CNT	14	7	6	8	12	11	9	10	14	17	17	20	19	20	21	19	21	22	26	23	18	12	7	9
	UQ	44	39	40	48	51	53	53	60	57	58	75	88	98	106	109	122	126	108	100	82	50	43	37	42
	LQ	37	25	36	31	36	30	39	44	47	43	54	68	81	82	84	86	72	76	56	52	33	33	26	29
h'F2	MED									375	300	340	290	285	260	255	300	280							
	CNT									1	1	3	5	6	3	5	6	2							
	UQ																								
	LQ																								
h'F	MED	330	350	340	400	420	415	400	445	365	300	270	240	230	240	230	230	245	240	240	265	290	320	285	320
	CNT	16	9	10	10	14	15	14	14	16	18	15	17	16	18	18	20	24	27	26	26	21	12	7	9
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED	270	270	260	310	250	325	310	340	315	230	200	210	220	225	210	185	170	275	250	335	360	280	310	280
	CNT	9	8	6	4	3	2	4	3	2	1	1	1	1	3	2	1	1	2	2	4	4	13	10	12
h'E	MED																								
	CNT																								
foEs	MED	E 35	42	49	E 33	40	37	39	41	41	36	23	E 21	28	E 23	E 22	E 18	27	E 28	25	25	30	E 28	E 33	37
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS.

MAY, 1959

TABLE 52

CHRISTCHURCH, NEW ZEALAND (43.6S, 172.8E)

TIME 180.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 74	U 71	U 69	U 68	U 63	U 60	U 55	60	79	94	107	118	121	128	127	125	123	U 101	U 79	U 93	U 91	U 83	U 75	U 77
	CNT	25	23	27	29	26	28	29	19	10	10	12	11	7	14	10	11	7	2	1	4	18	22	19	24
	UQ																								
	LQ																								
h'F2	MED												U 290	U 300											
	CNT												1	1											
	UQ																								
	LQ																								
h'F	MED	260	260	270	260	260	250	250	250	240	230	220	230	230	230	230	240	240	240	240	240	250	250	260	260
	CNT	22	21	25	25	28	29	29	30	30	30	30	28	27	27	28	28	30	30	30	28	26	26	42	23
	UQ																								
	LQ																								
(M3000)F2	MED	U 245	U 245	U 250	U 250	250	U 255	260	275	280	280	U 280	U 275	U 275	U 275	U 280	U 280	U 275	U 260	U 265	U 265	U 265	U 255	U 255	U 255
	CNT	25	23	26	29	26	28	28	19	9	10	10	11	7	12	9	9	6	1	1	4	18	22	18	23
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								U 180	250	300	330	350	360	360	350	340	300	250	U 160					
	CNT								17	29	27	23	24	23	27	25	27	30	27	8					
h'E	MED								U 105	110	105	105	100	100	100	105	105	105	110	100					
	CNT								4	22	21	23	21	21	28	24	26	20	16	8					
foEs	MED	E 17	E 17	E 16	E 17	E 15	E 13	E 15	E 18	G	G	G	G	G	G	G	G	G	G	E 22	E 16	E 17	E 17	E 17	E 16
	CNT	30	30	30	30	30	29	29	29	30	30	30	30	30	30	30	30	30	30	28	30	30	30	30	30

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS.

APRIL, 1959

TABLE 53

SYOWA BASE, ANTARCTICA (69.0S, 39.6E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	27	28	33	43	43	41	51	52	58	68	76	84	92	108	107	110	121	123	102	90	62	48	38	29
	CNT	13	13	10	15	15	9	12	12	15	16	20	17	21	16	17	22	19	21	22	23	24	16	12	13
	UQ	40	35	40	52	53	54	55	59	64	77	87	101	107	125	125	126	127	127	110	98	77	59	47	39
	LQ	26	27	26	31	33	31	41	44	51	63	73	83	75	88	84	103	90	97	63	83	43	41	33	26
h'F2	MED						420		750	500	310	330	370	315	290	280	465	490	280	640					
	CNT						1		1	3	4	6	5	6	3	6	3	1	1	1					
	UQ																								
	LQ																								
h'F	MED	340	380	380	380	440	430	450	350	290	260	250	250	250	245	245	245	240	235	235	240	270	250	290	330
	CNT	16	19	16	18	20	13	19	16	16	15	14	17	17	20	20	24	28	26	28	28	27	19	15	17
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED								290	260			360		420										
	CNT								1	1			1		2										
foE	MED	240	260	260	280	270	220	240	280	180	220	240	250	260	260	240	220	200	230	250	340	290	310	280	260
	CNT	8	8	7	10	7	3	2	3	5	3	4	5	3	4	3	3	4	1	4	2	4	8	9	10
h'E	MED																								
	CNT																								
foEs	MED	E										E	E	E	E	E	E	E					E		
	CNT	30	37	37	32	35	30	37	34	36	44	26	26	26	27	24	23	20	28	28	38	34	34	35	34
		27	26	25	25	27	16	14	18	17	9	8	6	5	7	4	4	5	4	8	5	12	14	21	23

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS.

APRIL, 1959

TABLE 54

SYOWA BASE, ANTARCTICA (69.0S, 39.6E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	43	40	42	38	44	54	50	66	78	82	88	89	90	88	90	87	83	83	86	88	82	74	64	48
	CNT	11	9	11	11	16	14	11	18	18	14	12	12	14	14	14	17	23	16	22	18	21	15	12	14
	UQ	50	48	54	45	56	69	82	82	82	86	93	100	103	119	118	106	100	96	101	100	90	82	68	52
	LQ	37	36	32	32	37	42	46	53	65	72	74	72	84	84	84	66	76	71	80	67	61	61	56	35
h'F2	MED						490	470	540	510	500	450	490	450	370	500	495	490	450						
	CNT						2	4	5	6	3	2	3	1	2	2	6	4	1						
	UQ																								
	LQ																								
h'F	MED	310	365	400	420	415	400	320	300	270	260	260	260	250	250	250	250	250	245	250	245	250	240	240	295
	CNT	14	15	17	15	18	13	11	13	15	18	17	17	17	19	19	20	21	20	23	21	23	16	13	17
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED					340			350	410	440	440	450	420	480	460	440	450							
	CNT					1			1	3	4	3	1	2	3	1	2	1							
foE	MED		190	330	260	280	220	320	260	240	270	300	300	300	310	310	290	270	240	260	330		330		240
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	40	32	34	38	37	38	37	32	35	E 28	34	E 33	34	33	E 32	E 29	E 28	E 26	29	40	37	34	38	39
	CNT	16	19	21	20	18	13	11	10	14	9	6	8	8	8	8	6	8	5	5	4	7	11	12	15

SWEEP 1.0 MC TO 25.0 MC IN 15 SECONDS.

MARCH, 1959

TABLE 55

WINNIPEG, CANADA (49.9N, 97.4W)

TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	47	48	47	48	49	47	49	46	62	78	90	94	111	111	120	122	120	120	102	96	84	72	60	54
	CNT	20	21	18	16	19	20	25	23	23	24	24	27	26	23	22	20	21	19	20	20	23	24	20	21
	UQ																								
	LQ																								
h'F2	MED											1		2	1		2	1							
	CNT																								
	UQ																								
	LQ																								
h'F	MED	280	300	290	300	290	290	290	280	230	220	210	210	210	220	210	210	220	220	210	210	210	230	240	260
	CNT	18	21	19	18	20	19	24	20	19	17	20	23	20	22	24	26	27	28	26	25	24	22	22	19
	UQ																								
	LQ																								
(M3000)F2	MED	U 290	U 290	U 290						U 330	320	310	310	300	300		U 290	U 300				U 320	310	U 310	U 300
	CNT	7	5	5	4	3	2	3	1	5	12	12	12	11	10	1	3	5	3		2	6	12	8	8
	UQ																								
	LQ																								
foF1	MED										1	1	1	3	1		2	1							
	CNT																								
foE	MED									200	250	300	310	320	320	310	300	280	230	U 170					
	CNT								1	11	14	16	18	17	17	10	20	21	22	9					
h'E	MED									U 110	U 100	100	100	100	100	105	105	105	110						
	CNT									7	9	12	13	12	13	20	17	14	15						
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 15 SECONDS.

FEBRUARY, 1959

TABLE 56

SYOWA BASE, ANTARCTICA (69.0S, 39.6E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	50	54	56	56	60	59	69	72	D 79	80	80	O 74	76	74	76	77	71	72	74	62	66	61	50	50
	CNT	9	8	9	9	9	8	9	8	7	7	9	10	10	10	12	14	13	10	11	12	10	9	9	8
	UQ	60	64	66	64	66	64	76	78	81	85	80	80	82	77	80	83	80	86	76	73	80	73	66	62
	LQ	42	46	40	42	52	58	60	62	56	62	62	62	70	61	68	65	62	57	50	48	50	49	39	42
h'F2	MED					520	495	525	480	465	430	430	460	490	525	500	525	500	525	600	500				
	CNT					1	3	6	5	5	6	8	9	8	7	8	9	8	3	3	1				
	UQ																								
	LQ																								
h'F	MED	350	E 370	E 335	430	365	380	320	285	270	255	255	255	260	255	260	250	250	255	265	290	280	285	340	330
	CNT	8	12	8	8	11	10	8	6	6	5	11	9	9	13	10	11	9	8	9	10	10	11	10	11
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LO																								
foF1	MED							420	480	480	U 480	490	520	490	490	480	480	470	420	410					
	CNT							2	5	7	4	8	8	7	8	5	8	7	4	3					
foE	MED	230	300	260	270	290	260	260	350	320	310	300	350	330	350	300	320	300	280	270	240	230	240	390	340
	CNT	2	1	1	1	1	4	2	3	4	2	2	1	1	1	1	1	4	2	5	5	4	1	1	1
h'E	MED																								
	CNT																								
foEs	MED	46	44	47	44	43	E 33	E 27	44	E 36	34	39	38	44	38	42	35	E 30	34	E 29	33	34	38	38	34
	CNT	12	14	11	10	10	9	5	5	5	8	6	5	4	3	5	3	4	5	6	7	9	9	11	10

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS.

FEBRUARY, 1959

TABLE 57

RAROTONGA 1. (21.2S, 159.8W)

TIME 165.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	97	94	95	93	88	86	95	107	113	123	133	144	156	155	144	126	115	112	106	102	97	98	100	98
	CNT	22	23	27	26	31	30	29	30	30	31	31	30	31	31	30	31	29	26	25	21	20	14	14	20
	UQ																								
	LQ																								
h'F2	MED										U														
	CNT										400	40D	420	400	400	400	400	400	395						
	UQ										3	12	29	31	31	29	30	22	10						
	LQ																								
h'F	MED	300	320	300	290	280	300	250	250	240	230	230	230	220	220	240	230	250	250	300	340	360	350	310	300
	CNT	29	27	30	29	28	25	29	26	27	26	20	24	23	18	18	20	19	22	23	25	25	26	29	27
	UQ																								
	LQ																								
(M3000)F2	MED	240	240	240	240	245	245	260	270	245	240	240	240	240	240	240	240	235	235	230	230	220	230	240	240
	CNT	22	23	27	26	31	30	29	30	30	31	31	30	31	31	30	31	25	23	22	18	17	13	14	20
	UQ																								
	LQ																								
foF1	MED										U	U	U	680	670	640	U	U							
	CNT										540	550	700	10	11	7	620	600							
											1	1	4				2	2							
foE	MED						U	260	340	370	410	430	430	440	440	420	400	360	310	U					
	CNT						120	22	26	22	23	18	17	15	18	19	27	26	25	220					
							2													2					
h'E	MED							110	110	105	105	105	105	105	105	105	105	110	110						
	CNT							17	22	26	26	22	18	22	22	21	23	21	17						
foEs	MED	28	29	26	24	27	30	33	42	43	46	46	46	G	47	47	44	47	41	38	33	31	30	32	32
	CNT	31	31	31	31	31	31	30	30	30	31	30	29	31	28	30	31	31	31	30	30	31	31	31	31

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS.

JANUARY. 1959

TABLE 58

PRUHONICE. CZECHOSLOVAKIA (50.0N, 14.6E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	36	37	35	33	34	33	39	72	110	121	127	129	128	127	114	109	97	72	61	48	40	39	39	38
	CNT	28	26	25	26	24	24	24	25	25	25	27	21	24	23	21	19	20	18	25	24	22	20	20	22
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	320	310	300	270	270	250	250	220	220	225	245	220	225	220	230	220	240	220	220	235	255	295	290	325
	CNT	29	29	29	29	25	23	25	29	30	29	29	27	30	30	30	29	26	26	29	22	18	16	17	14
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								200	250	290	310	310	300	290	260									
	CNT								6	7	10	18	12	11	14	9	3								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 18.0 MC.

DECEMBER. 1958

TABLE 59

SALISBURY. SOUTHERN RHODESIA (17.8S, 31.0 E)

TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U				U	U	U	U	U	U	U				U	U						U	
	CNT	65	60	50	50	50	49	80	100	108	110	120	105				100	60						100	
	UQ	4	3	8	10	12	9	3	1	2	8	2	1				3	1						1	
	LQ																								
h'F2	MED																								
	CNT																								
	UD																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U	U	U	U		U	U	U	U	U	U	U				U	U						U	
	CNT	350	350	310	315	325	320	350	360	350	335	360	310				310							310	
	UQ	4	3	8	10	12	9	3	1	2	8	1	1				3							1	
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							U					U	U	U	U									
	CNT							150	280	320	300	370	400	320	400	390	370	300	300						
								1	17	26	19	9	1	1	1	3	17	13	6						
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E	G	G	G	G	G	E	G	G	G	G	G	E	E	E	E	E	E
	CNT	13	20	20	17	17	20	19	23	25	28	28	21	9	6	5	12	24	26	15	6	1	3	8	14

SWEEP 1.0 MC TO 16.0 MC IN 7 SECONDS.

SEPTEMBER. 1958

TABLE 60

SALISBURY. SOUTHERN RHODESIA (17.8S, 31.0 E)

TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U	U	U	U	U	U	U				U	U	U							
	CNT	38	35	33	25	30	30	35	90	132	130	130				130	90	93							
	UQ	4	6	5	5	5	7	8	2	2	9	6				1	5	4							
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U	U	U	U	U	U	U	U	U	U	U				U	U	U							
	CNT	345	335	340	350	330	340	355	390	355	360	355				340	335	345							
	UQ	4	6	5	5	5	7	8	2	2	9	6				1	4	4							
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								180	U						U									
	CNT								1	340	350	370				380	350	300							
										3	17	15				2	17	19							
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E	E	G	G	G				G	G	G							E
	CNT	4	7	5	5	5	20	20	21	3	19	16				2	18	20							40
							8	9	3																1

SWEEP 1.0 MC TO 16.0 MC IN 7 SECONDS.

JUNE. 1958

TABLE 61

TRELEW, ARGENTINA (43.2S, 65.3W)

TIME 00-04

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	56	54	52	53	51	50	44	47	U 86	D 94	D 102	D 110	D 100	D 110	D 102	D 106	D 100	D 100	D 85	D 80	U 66	U 60	56	59
	CNT	21	23	22	23	23	23	24	25	20	14	6	10	9	8	9	10	10	19	18	21	19	21	20	22
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	340	350	325	310	300	255	270	300	240	220	220	215	215	220	225	230	225	210	205	225	220	245	265	300
	CNT	13	18	17	21	17	18	14	14	20	14	6	8	8	7	9	10	10	19	17	16	16	19	11	12
	UQ																								
	LQ																								
(M3000)F2	MED	240	250	250	250	260	260	260	265	U 285			U 275		U 320		U 315	U 285	U 270	U 295	U 280	U 315	U 285	270	255
	CNT	16	17	18	17	19	20	18	20	9			1		1		1	2	3	5	4	9	9	10	15
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED	U 195				U 160			U 175	290	U 310	U 395	U 400	405			U 360	U 300	U 220						
	CNT	1				1			2	11	9	3	3	2			3	5	5						
h'E	MED									153	106	104	105	105	101					185					
	CNT									4	2	2	3	2	1					4					
foEs	MED																								
	CNT																								

SWEEP 1.3 MC TO 18.0 MC IN 30 SECONDS.

JUNE, 1958

TABLE 62

SALISBURY, SOUTHERN RHODESIA(17.8S, 31.0 E)

TIME 30-0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 60	U 50	U 50	U 40	U 40	U 30	U 50	U 110	U 120	U 130	U 130				U 130	U 130	U 129							U 60
	CNT	17	19	20	17	19	14	13	1	2	19	15				1	17	11							8
	UQ																								
	LQ																								
h'F2	MED										U 230					U 300	300	300							
	CNT										4					3	15	6							
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 320	U 310	U 320	U 330	U 320	U 320	U 320	U 330	U 360	U 350	U 350				U 280	U 315	U 310							U 335
	CNT	17	18	20	17	19	14	13	1	2	19	15				1	16	11							8
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								U 180																
	CNT								1																
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E	U 30	U 38	G	G				G	G	G							E
	CNT	15	17	22	19	18	14	15	3	2	24	22				4	26	23							10

SWEEP 1.0 MC TO 16.0 MC IN 7 SECONDS.

MAY, 1958

TABLE 63

SALISBURY, SOUTHERN RHODESIA(17.8S, 31.0 E)

TIME 30-0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 70	U 70	58	50	41	40	58	U 100	U 120	140	140				U 140	130	U 130							U 80
	CNT	17	17	18	16	16	16	18	3	3	16	13				8	17	16							9
	UQ																								
	LQ																								
h'F2	MED										U 280	U 300				U 300	350	U 350							
	CNT										1	3				3	12	8							
	UQ																								
	LQ																								
h'F	MED	260	250	250	250	250	255	290	U 250	U 240	240	240				250	250	250							250
	CNT	17	17	18	16	16	16	18	3	3	16	14				8	18	17							11
	UQ																								
	LQ																								
(M3000)F2	MED	U 310	U 310	315	310	310	300	300	U 340	U 350	310	300				U 310	280	U 275							U 320
	CNT	17	17	18	16	16	16	18	3	3	16	13				8	17	16							9
	UQ																								
	LQ																								
foF1	MED											U 650				U 580	U 700	U 800							
	CNT											2				2	7	1							
foE	MED								U 300	U 300	360	380				U 440	380	300							
	CNT								1	2	11	11				3	11	13							
h'E	MED								U 100	U 100	100	100				U 100	100	100							
	CNT								1	2	11	11				3	12	13							
foEs	MED	E 11	E	E	E	E	E	E	G	G	G	G				E 43	G	G							E
	CNT	17	17	18	17	16	17	19 17	3	3	16	12				7	18	17							11

SWEEP 1.0 MC TO 16.0 MC IN 7 SECONDS.

APRIL, 1958

TABLE 64

SALISBURY, SOUTHERN RHODESIA(17.8S, 31.0 E)

TIME 30-0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 72	U 67	U 60	U 55	55	U 49	U 66	U 95	U 108	111	115				U 126	120	120	U	E 75				E 94	U 78
	CNT	22	26	23	25	24	24	23	4	4	25	21				7	20	21	1	1				1	10
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 290	U 290	U 290	U 290	280	U 280	U 310	U 320	U 300	300	290				U 280	270	280	U	280				U 320	U 290
	CNT	22	26	23	25	24	24	23	4	4	25	21				7	20	21	1					1	10
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							U 230	U 250	U 340	400	400				U 380	400	380							
	CNT							2	3	4	23	17				3	17	18							
h'E	MED																								
	CNT																								
foEs	MED	E 15	15	E 15	E 13	E	E	E 20	G	G	G	G				G	G	G	U	E 45				E 15	E 16
	CNT	23	25	22	24	26	24	21	4	4	25	21				7	20	22	1	1				1	12

SWEEP 1.0 MC TO 16.0 MC IN 7 SECONDS.

FEBRUARY, 1958

TABLE 65

POITIERS. FRANCE (46.6N. 0.3E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ			U		U		U	U	U	U		U	D	U	U	U	U	D	D	U	U	U		U
	CNT	60	57	55	52	40	45	44	59	103	130	150	140	140	140	134	130	120	106	90	85	69	66	60	60
	UQ	30	30	30	30	30	29	30	30	30	30	30	31	31	31	30	30	30	30	30	30	30	30	29	30
	LQ																								
h'F2	MEQ	U							U		U							U				U	U		
	CNT	350							275		250	250	260	275	295	275	270	285				295	300		
	UQ	1							2		4	6	5	8	10	11	6	1				2	1		
	LQ																								
h'F	MED	E	E	E	E	E	E	E														L	E	L	E
	CNT	305	305	310	300	280	275	270	245	230	225	245	230	225	230	230	235	230	225	230	235	245	275	295	315
	UQ	30	30	30	30	30	29	30	30	30	30	30	31	30	31	31	31	30	30	30	30	30	30	30	30
	LQ																								
(M3000)F2	MEQ									U		U	U	U	U	U	U				U				
	CNT	245	250	250	250	270	255	265	260	312	285	295	272	275	285	280	255				260	265	260	252	242
	UQ	13	15	13	13	13	14	17	9	2	4	3	2	1	2	3	1				1	7	7	14	12
	LQ																								
foF1	MEQ													U	U	U	U								
	CNT													750	820	660	560								
	UQ													5	3	4	1								
	LQ																								
foE	MEQ								E										E						
	CNT								2	220	270	305	330	335	325	300	260	180	26						
	UQ									38	30	29	31	30	29	31	27	43							
	LQ																								
h'E	MEQ								E					E	E										
	CNT								2	160	115	110	110	110	110	110	120	20	26						
	UQ									21	29	29	29	31	27	27	24								
	LQ																								
foEs	MED	E	E	E	E	E	E	E	E										E	E	E	E	E	E	E
	CNT	30	30	30	30	30	30	30	30	42	30	33	35	35	34	29	28	22	30	30	30	30	30	30	30
	UQ									30	30	30	31	31	30	31	31	30							
	LQ																								

SWEEP 1.5 MC TO 16.5 MC.

DECEMBER. 1957

TABLE 66

CASABLANCA. MOROCCO (33.6N. 7.6W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	80	78	73	66	59	52	51	64	108	129	131	132	132	132	126	124	120	120	U	95	92	87	86	84
	CNT	30	29	30	29	29	26	27	29	28	30	25	31	30	27	29	30	30	28	25	24	26	21	26	24
	UQ																								
	LQ																								
h'F2	MEQ										U		U	U				U							
	CNT										250		235	305	345	370	348	328							
	UQ										3		3	4	7	9	2	2							
	LQ																								
h'F	MED	E	E	E	E	E	E	E													E	L	E	E	L
	CNT	270	260	270	255	250	255	285	260	240	235	230	225	230	235	245	245	250	255	240	255	275	265	260	275
	UQ	30	30	30	30	30	29	29	29	29	31	30	31	29	29	29	31	30	30	31	31	31	31	31	30
	LQ																								
(M3000)F2	MED	270	275	275	272	278	275	280	280	320	300	290	280	260	260	252	252	260	270	270	U	270	262	260	270
	CNT	26	26	28	28	26	23	26	28	26	25	19	27	26	26	28	26	28	19	8	15	17	16	21	19
	UQ																								
	LQ																								
foF1	MED										U		U	U	710	690		U							
	CNT										380		640	980	5	8		600							
	UQ										1		2	1				1							
	LQ																								
foE	MEQ								E											E					
	CNT								28	220	310	350	375	382	385	360	345	300	410	25					
	UQ									26	31	29	29	24	21	24	30	29	18						
	LQ																								
h'E	MEQ								E										E	E					
	CNT								28	130	120	110	110	110	110	115	115	120	135	25					
	UQ									22	27	28	30	28	27	28	30	29	13						
	LQ																								
foEs	MEQ	E	E	E	E	E	E	E	E	G	G	G	G	G	G	G	G	G	G	E	E	E	E	E	E
	CNT	29	30	29	29	30	29	28	29	28	31	30	31	29	29	29	31	31	28	30	31	28	30	30	29
	UQ																								
	LQ																								

SWEEP 1.5 MC TO 16.5 MC.

DECEMBER. 1957

TABLE 67

DAKAR. FRENCH W. AFRICA (14.7N. 17.4W)

TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ				U	U	U				U	U		U	U	U	U	U			U				
	CNT				104	108	88	69	64	114	153	160	162	163	157	157	153	151			128				
	UQ				2	3	4	8	11	5	3	5	5	3	3	2	1	1			1				
	LQ																								
h'F2	MED												U	U	U	U			U						
	CNT												425	475	475	445	505	490	495						
	UQ												1	3	5	3	6	5	1						
	LQ																								
h'F	MED	255	230	220	220	222	230	230	245	240	230	220	210	210	210	E	215	220	240	260	310	380	360	312	278
	CNT	24	23	23	23	22	21	21	21	24	20	21	19	20	13	220	16	18	20	25	24	24	24	23	25
	UQ															9									
	LQ																								
(M3000)F2	MED				U	U	U				U	U	U	U	U	U	U	U			U				
	CNT				298	285	292	300	305	305	300	295	270	245	235	232	220	245			240				
	UQ				2	3	4	7	9	5	3	4	5	3	3	2	1	1			1				
	LQ																								
foF1	MED													U	U	U	U	U							
	CNT													720	700	680	670	680							
	UQ													1	1	2	2	1							
	LQ																								
foE	MED								E				U	U	U	U	U	U			U				
	CNT								11	240	322	372	400	430	430	360	410	350	315	245	140				
	UQ									15	16	8	8	2	3	1	5	3	10	16	1				
	LQ																								
h'E	MED								E							U					E				
	CNT								10	110	105	100	95	95	95	100	100	105	105	112					
	UQ									14	20	16	12	13	10	4	17	11	12	14	1				
	LQ																								
foEs	MED	E	E	E	E																	E	E		
	CNT	24	23	23	23	33	34	34	34	31	35	42	46	47	35	50	35	48	45	35	35	33	22	22	27
	UQ					22	21	21	21	22	19	21	18	20	15	12	20	23	20	25	45	26			24
	LQ																								

SWEEP 1.2 MC TO 20.0 MC.

DECEMBER. 1957

TABLE 68

OJIBOUTI. FRENCH SOMALILAND (11.6N. 43.2E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U	U	U	U	U			U	U	U	U	U	U			U	U	U	U	U	U	U	U	U
	CNT	102	100	92	88	82	78	70	112	135	135	138	137	138	138	136	138	136	130	105	92	96	90	87	92
	UQ	4	4	8	10	14	17	23	10	17	11	11	11	15	15	12	5	10	4	10	5	1	3	3	7
	LQ																								
h'F2	MED											U													
	CNT											470	490	485	495	500	558	588							
	UQ											1	5	19	13	10	10	6							
	LQ																								
h'F	MED	295	262	255	242	235	230	240	268	250	240	235	230	230	230	230	240	250	280	330	440	420	372	315	302
	CNT	20	22	27	30	30	29	29	28	30	31	27	29	27	29	28	31	28	28	30	29	10	12	14	16
	UQ																								
	LQ																								
(M3000)F2	MED	U	U	U	U	U			U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	238	265	245	278	275	295	280	268	260	235	225	215	208	205	205	210	210	202	200	192	185	200	210	225
	UQ	4	3	8	10	14	17	23	10	17	11	11	11	14	13	12	5	9	4	9	4	1	3	3	7
	LQ																								
foF1	MED													U	U	U	U								
	CNT													760	730	760	810								
	UQ													7	10	4	3								
	LQ																								
foE	MEQ			E	E	E	E	E	255	330	U	400	U	U	U	410	382	U	U	E	E	L			
	CNT			3	6	9	6	25	27	27	22	16	13	10	19	19	22	17	12	17	25	5			
	UQ																								
h'E	MED			E	E	E	E	E	120	110	110	110	110	110	110	110	115	U	U	E	E	E			
	CNT			3	6	9	6	26	12	14	12	9	11	9	14	10	8	2	3	18	26	6			
	UQ																								
	LQ																								
foEs	MED	24	23	23	23	22	22	22	41	40	49	85	80	45	48	80	47	78	46	41	22	22	23	32	32
	CNT	31	31	31	30	29	29	29	28	30	31	27	29	28	29	27	29	29	30	31	31	29	31	29	31
	UQ																								
	LQ																								

SWEEP 1.25 MC TO 20.0 MC.

DECEMBER. 1957

TABLE 69

TAHITI, SOCIETY IS. (17.7S, 149.3W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	94	86	81	80	74	76	89	100	108	116	134	141	145	152	152	151	140	137	130	120	112	116	112	104
	CNT	31	29	27	26	27	25	23	26	24	20	18	24	25	24	27	25	25	26	25	27	28	27	29	30
	UQ																								
	LQ																								
h'F2	MED										U									U					
	CNT										435	480	500	490	485	475	455	460	455	420					
	UQ										4	12	23	24	21	27	24	24	19	1					
	LQ																								
h'F	MED	328	342	350	345	325	325	270	245	245	245	245	250	240	245	240	250	250	265	300	370	400	380	345	340
	CNT	30	26	29	27	27	25	24	23	20	18	19	19	15	14	22	21	20	17	15	18	19	22	22	27
	UQ																								
	LQ																								
(M3000)F2	MED	230	230	230	230	230	240	270	265	240	225	228	228	230	225	230	235	230	225	228	225	220	225	235	240
	CNT	29	28	26	26	25	25	23	26	24	19	18	24	25	23	27	25	25	25	24	27	27	27	29	29
	UQ																								
	LQ																								
foF1	MED										U	U	U												
	CNT										700	720	720	740	680	670	650	680	600	750					
	UQ										1	6	13	18	18	25	17	8	1	1					
	LQ																								
foE	MED						E			U	U	U	U		U						U				
	CNT						150	250	335	370	460	445	500		450			360	320	230	140				
	UQ						16	22	13	6	1	1	1		1			11	18	8	3				
	LQ																								
h'E	MED						E				U					U		E							
	CNT						16	115	105	108	102					110	110	110	110	125	4				
	UQ							21	13	12	2					3	13	24	24	14					
	LQ																								
foEs	MED	31	31	31	30	29	30	31	36	41	45	50	52	64	48	38	39	41	38	40	38	35	34	33	31
	CNT	31	28	28	28	27	26	25	26	23	17	13	7	6	5	9	23	25	26	28	29	28	28	30	31

SWEEP 1.2 MC TO 17.0 MC.

DECEMBER, 1957

TABLE 70

TANANARIVE, MADAGASCAR (18.8S, 47.5E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U				D	U							U	U	U	D	D	U	U	U	U
	CNT	80	76	75	70	60	70	83	91	94							94	93	94	90	90	90	90	90	87
	UQ	16	16	18	18	17	18	20	8	2							1	2	4	10	5	4	7	10	17
	LQ																								
h'F2	MED							U				U	U	U	U		U	U	U						
	CNT							435				470	470	480	480	485	475	420	380						
	UQ							1				1	3	3	3	5	3	7	1						
	LQ																								
h'F	MED	275	E	E	E	282	295	250	232	U	U	U					232	230	240	270	285	480	495	275	E
	CNT	21	270	275	285	23	26	24	14	232	220	220					4	4	12	18	19	12	11	13	264
	UQ		21	23	23					4	3	1													20
	LQ																								
(M3000)F2	MED	268	U	U	255	255	258	282	U	U								U	U	U				270	275
	CNT	6	265	270	7	8	6	14	260	235								240	240	245				2	9
	UQ		4	6					3	1								2	3	1					
	LQ																								
foF1	MED																	U							
	CNT																	560							
	UQ																	4							
	LQ																								
foE	MED	E	E	E	E	E											U			U					E
	CNT	3	7	7	13	19	132	262									378	365	310	235					2
	UQ						16	18									2	7	17	1					
	LQ																								
h'E	MED	E	E	E	E	E	E				U	U	U												E
	CNT	3	7	7	13	19	16	115	110	105	105	100	100				105	110	115						2
	UQ							19	14	7	5	2	1				9	14	16						
	LQ																								
foEs	MED	17	28	G	15	15	15	23	U	U	U	U	U			U	U	50	38	32	31	37	31	31	28
	CNT	23	25	24	27	27	25	25	39	38	68	48				2	6	11	20	18	15	9	11	10	23
	UQ								3	3	2	1													
	LQ																								

SWEEP 1.25 MC TO 20.0 MC.

DECEMBER, 1957

TABLE 71

POITIERS, FRANCE (46.6N, 0.3E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	69	U	68	64	U	58	50	52	U	120	Q	D	D	D	D	D	D	130	90	90	U	U	U	70
	CNT	28	28	28	27	28	28	28	28	49	29	29	29	29	29	29	29	28	28	28	28	28	28	28	28
	UQ																								
	LQ																								
h'F2	MED										U						U					U		U	
	CNT										250	275	270	295	298	265	305				400	350		500	
	UQ										3	5	6	5	6	5	1				1	1		1	
	LQ																								
h'F	MED	E	E	E	E	E	E	E																	E
	CNT	300	300	302	295	280	298	260	245	230	230	225	230	225	230	240	235	238	225	230	235	248	260	270	300
	UQ	28	28	28	28	28	28	27	28	29	29	29	29	29	29	29	29	28	28	28	28	28	27	27	27
	LQ																								
(M3000)F2	MED	238	242	245	252	275	255	260	280	U	U	U										U			
	CNT	16	8	13	12	12	14	21	14	275	260	255										235	245	248	245
	UQ									2	2	2										3	6	10	12
	LQ																								
foF1	MED											U	U	U	U	U	U				U				
	CNT											600	570	720	620	570	610				240			440	
	UQ											1	1	1	1	3	1				1			1	
	LQ																								
foE	MED								190	250	300	330	355	360	345	320	275	205	E						
	CNT								26	26	27	27	28	29	24	49	28	22	26						
	UQ																								
	LQ																								
h'E	MED								E	125	110	105	105	110	110	110	115	E	E						
	CNT								27	17	19	20	23	24	28	26	21	4	26						
	UQ																								
	LQ																								
foEs	MED	E	E	E	E	E	E	E	G				G									E	E	E	E
	CNT	48	28	28	28	28	28	28	28	43	30	30	29	28	22	23	28	24	23	26	44	28	28	28	28
	UQ									29	29	29	29	29	29	29	29	28	28	28	28				
	LQ																								

SWEEP 1.5 MC TO 16.5 MC IN 1 MINUTE.

NOVEMBER, 1957

TABLE 72

CASABLANCA, MOROCCO (33.6N, 7.6W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	86	85	80	78	69	58	55	83	121	135	145	140	145	140	138	135	133	U	123	U	107	93	90	89
	CNT	28	29	30	28	29	27	29	29	29	25	28	28	28	29	28	28	30	29	30	112	28	28	27	28
	UQ																				28				
	LQ																								
h'F2	MED												U	U		U	U								
	CNT												275	350	350	370	330								
	UQ												2	4	9	3	4								
	LQ																								
h'F	MED	E	E	E	E	E	E	E													E	E	E	E	E
	CNT	260	265	250	250	245	240	275	255	230	230	225	225	220	230	230	235	245	245	242	255	265	270	260	270
	UQ	30	30	30	29	29	29	29	29	29	28	28	28	29	29	29	30	30	30	30	30	30	29	30	30
	LQ																								
(M3000)F2	MED	270	268	270	280	290	275	272	300	310	290	282	270	260	255	258	255	255	460	U	U	460	268	272	265
	CNT	22	28	27	25	25	23	26	29	26	17	18	20	16	20	18	23	21	23	265	270	8	12	14	19
	UQ																			19	13				
	LQ																								
foF1	MED													U	U	U									
	CNT													840	740	690									
	UQ													2	3	1									
	LQ																								
foE	MED								E	260	320	360	380	390	390	380	350	295	210						
	CNT								2	28	24	25	24	26	21	23	26	26	10						
	UQ																								
	LQ																								
h'E	MED								E	110	105	100	105	100	105	105	105	105	E						
	CNT								2	27	23	24	23	25	25	28	26	26	135						
	UQ																		5						
	LQ																								
foEs	MED	E	E	E	E	E	E	E	E	G	G	G	G	G	G	G	G	G		E	E	E	E	E	E
	CNT	21	27	26	25	28	27	28	26	29	28	28	28	29	29	29	30	30	25	23	27	25	22	24	26
	UQ																		25						
	LQ																								

SWEEP 1.5 MC TO 16.5 MC.

NOVEMBER, 1957

TABLE 73

TAMANRASSET. FRENCH W. AFRICA (22.8N, 5.5E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	Q 125	128	U 120	D 55	Q 52	50	D 75	135	Q 142	D 145	U 138	U 142	U 142	Q 141	Q 142	U 144	U 142	U 140		U 130	U 130		U 140	U 130
	CNT	5	6	3	8	14	13	6	14	8	7	4	4	4	6	6	3	2	1		2	1		1	3
	UQ																								
	LQ																								
h'F2	MED											U 352	U 400	420	440	U 442	U 430	U 442							
	CNT											2	13	18	17	16	9	2							
	UQ																								
	LQ																								
h'F	MED	230	225	222	215	235	270	272	250	245	238	235	238	230	235	240	250	260	280	320	350	300	260	245	240
	CNT	20	21	20	20	21	19	20	18	18	20	19	20	21	19	19	19	21	21	17	19	22	23	22	23
	UQ																								
	LQ																								
(M3000)F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED											U 840	U 800	U 750	U 740	700	U 710								
	CNT											2	11	13	16	10	4								
foE	MEQ				E	E	E			U 345	U 360	U 360	U 385	U 372	U 390	U 355	322	260	E	E					
	CNT				1	4	16	162 18	275 15	9	6	5	2	4	1	8	12	17	18	15					
h'E	MED				E	E	E	E	110	108	105	105	105	105	110	115	110	115	E	E					
	CNT				1	4	16	20	13	14	16	17	19	19	19	15	16	15	19	14					
foEs	MEQ	E	E	E	E	E	E										G					E	E	E	E
	CNT	20	20	20	20	21	19	16 19	33 17	33 11	42 11	42 15	43 15	36 12	31 13	29 16	16	33 20	29 21	24 17	22 19	22	23	22	23

SWEEP 1.36 MC TO 17.2 MC.

NOVEMBER, 1957

TABLE 74

DAKAR, FRENCH W. AFRICA (14.7N, 17.4W)

TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 174	172	U 110	U 98	88	64	66	74	113	D 159	169	170	168	165	D 165	U 165	U 161						U 172	U 180
	CNT	3	6	3	4	12	14	18	18	5	9	12	15	14	9	5	3	2						3	1
	UQ																								
	LQ																								
h'F2	MED													U 435	U 468	U 480	U 470	U 470	U 475						
	CNT													3	4	3	2	2	1						
	UQ																								
	LQ																								
h'F	MED	250	245	220	210	210	225	228	260	240	225	220	210	205	200	200	215	220	240	265	330	385	370	330	280
	CNT	27	29	28	27	28	29	28	28	26	18	16	18	10	13	11	14	9	16	24	26	22	21	25	26
	UQ																								
	LQ																								
(M3000)F2	MEQ	U 265	U 290		U 320	292	300	295	280	U 302	U 300	272	260	240	U 232	U 232	U 228	U 235						U 245	
	CNT	2	2		1	6	9	13	16	4	1	10	11	10	6	2	2	1						2	
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MED						E	E	E													E			
	CNT						1	2	2	260 22	340 17	380 9	390 13	395 10	400 11	415 6	385 11	360 11	315 17	235 12		3			
h'E	MED						E	E	E	112	105	105	100	100	100	100	100	100	105	120		E			
	CNT						1	2	1	22	17	20	23	24	24	20	24	20	17	7		3			
foEs	MED	E	E	E	E	E	E	E														E	E	E	E
	CNT	24	27	29	28	24	26	27	34 10	31 23	35 17	41 14	43 15	46 14	43 15	49 13	41 17	44 16	50 24	35 24	46 23	20	19	23	26

SWEEP 1.2 MC TO 20.0 MC.

NOVEMBER, 1957

TABLE 75

OJIBOUTI. FRENCH SOMALILAND (11.6N, 43.2E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 94	U 90	U 92	U 93	90	84	79	U 122	U 140		U 138	U 139	U 140	U 140	U 145	U 142	U 140	U 128	U 133	U 104	U 107	U 120		U 96
	CNT	2	3	8	18	15	20	19	11	11		3	4	7	8	6	8	4	3	4	4	2	2		3
	UQ																								
	LQ																								
h'F2	MED													U 485	U 512	U 522	540	U 562							
	CNT													2	10	8	5	2							
	UQ																								
	LQ																								
h'F	MEQ	262	255	250	240	235	225	270	260	245	240	230	230	230	230	230	240	250	280	340	430	400	350	285	280
	CNT	24	25	23	25	23	27	27	26	25	23	21	17	18	19	23	24	25	25	27	23	16	18	18	23
	UQ																								
	LQ																								
(M3000)F2	MEQ	U 238	U 250	U 265	U 270	280	295	280	U 265	U 248		U 215	U 208	U 210	U 205	U 210	U 205	U 212	U 192	U 195	U 190	U 210	U 210		U 240
	CNT	2	3	8	18	15	20	19	11	10		3	4	7	7	5	7	4	2	3	4	2	2		2
	UQ																								
	LQ																								
foF1	MED														U 820										
	CNT														1										
foE	MED			E	E	E		E	E	280	338	U 405	U 435	U 420	U 425	402	380	U 340	U 256	E	E	E			
	CNT			2	5	5	8	21	24	24	18	15	7	10	13	10	16	15	16	21	18	3			
h'E	MED			E	E	E	E	E	120	115	110	115	110	110	110	110	120	120	130	E	E	E			
	CNT			2	5	5	8	19	16	17	10	6	4	8	7	4	7	2	1	22	20	4			
foEs	MED	22	22	22	22	22	22	22	40	45	48	85	96	90	95	97	50	50	46	37	22	28	23	26	22
	CNT	29	28	28	28	26	28	27	26	25	24	25	24	25	27	27	27	26	28	26	28	24	27	27	28

SWEEP 1.25 MC TO 20.0 MC.

NOVEMBER, 1957

TABLE 76

TANANARIVE, MADAGASCAR (18.8S, 47.5E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	82	80	78	74	63	74	91														U 96	U 92	D 89	U 86
	CNT	15	15	17	16	20	14	10														1	3	6	11
	UQ																								
	LQ																								
h'F2	MED															U 440	425								
	CNT															-1	5								
	UQ																								
	LQ																								
h'F	MED	U 258	260	295	280	295	298	250	235	U 230	U 225	U 220				U 230	230	250	255	290	285	265	E 280	280	260
	CNT	18	14	19	20	17	24	24	7	5	2	1				1	5	7	13	15	15	13	14	12	16
	UQ																								
	LQ																								
(M3000)F2	MED	U 250	U 245	250	U 255	U 250	U 260	U 278														U 255	U 255	U 252	
	CNT	2	5	7	10	9	9	4														1	1	4	
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED	E	E	E	E	E					U 370							U 350	280	U 190				E	
	CNT	2	2	5	4	11	135 18	260 21			1							19	18	1					2
h'E	MED	E	E	E	E	E	E			U 105	U 110	U 100	•			U 105	105	110	112					E	
	CNT	2	2	5	4	11	18	110 19	105 7	3	2	1				1	5	18	15						2
foEs	MED	21	25	27	19	17	26	28		U 52	U 42	U 53					U 48	40	35	36	37	30	30	32	26
	CNT	29	29	27	29	27	25	26		1	2	1					2	18	23	10	9	10	11	8	27

SWEEP 1.25 MC TO 20.0 MC.

NOVEMBER, 1957

TABLE 77

POITIERS, FRANCE (46.6N, 0.3E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	70	70	66	61	59	58	69	71	79	86	87	88	86	86	86	86	86	86	86	86	78	75	75	70
	CNT	31	30	30	31	31	30	30	29	31	30	30	30	31	30	30	31	31	30	30	29	26	25	29	30
	UQ																	U				U	U	U	U
	LQ																								
h'F2	MED						U	U		305	310	325	325	362	355	350	350	325	290	288	U 285				
	CNT						360	315	308	21	25	27	27	30	29	29	31	29	24	12	1				
	UQ						3	4	16																
	LQ																								
h'F	MED	E	E	E	E	E				225	215	222	222	215	228	220	235	230	250	252	260	255	E 265	E 280	E 290
	CNT	300	305	300	300	285	270	245	230	24	24	26	24	27	28	28	30	27	26	28	30	28	26	28	28
	UQ	28	29	28	30	30	31	25	25																
	LQ																								
(M3000)F2	MED	250	250	255	250	260	280	310	300	290	290	285	275	270	270	270	275	275	285	U 280	U 280	U 260	U 260	U 260	U 265
	CNT	9	15	10	14	20	24	19	14	18	11	10	6	6	9	13	15	11	13	3	3	1	2	3	3
	UQ																								
	LQ																								
foF1	MED						U	U		U									U	U					
	CNT						300	400	460	500	550	550	560	610	590	570	560	520	460	420					
	UQ						2	3	15	20	21	22	23	28	28	28	28	27	13	4					
	LQ																								
foE	MED							E												E		E			
	CNT						165	240	290	335	360	380	390	400	400	390	370	340	300	240		15			
	UQ						18	30	30	31	30	27	26	26	27	25	27	30	28	25	24				
	LQ																								
h'E	MED						E														E	E			
	CNT						18	110	105	100	100	100	100	100	100	100	100	100	105	115	24	15			
	UQ							27	30	29	31	30	28	27	27	27	27	29	25	21					
	LQ																								
foEs	MED	26	25	24	25	24	28	32	38	40	44	47	42	42	35	G	36	36	36	35	30	30	29	26	26
	CNT	31	31	31	31	31	31	31	31	31	31	29	30	31	31	30	31	31	30	30	30	30	29	30	30

SWEEP 1.5 MC TO 16.5 MC.

AUGUST, 1957

TABLE 78

CASABLANCA, MOROCCO (33.6N, 7.6W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	87	88	85	89	78	71	72	80	81	84	86	90	96	100	103	103	101	93	93	92	89	87	87	86
	CNT	29	28	27	28	29	29	29	24	30	28	31	31	30	29	27	31	30	30	31	30	31	31	28	29
	UQ																								
	LQ																								
h'F2	MED								250	258	270	328	348	350	355	350	340	335	325	300	U 272				
	CNT								10	18	14	14	20	21	27	24	29	25	26	16	2				
	UQ																								
	LQ																								
h'F	MED	E	E	E	E	E	E			280	275	265	242	230	225	210	215	U 245	230	230	230	240	245	250	270
	CNT	325	320	300	290	280	275	265	242	28	28	28	29	27	20	18	11	3	5	11	23	21	19	25	31
	UQ	30	29	29	29	28	28	28	29																
	LQ																								
(M3000)F2	MED	260	260	265	270	270	270	295	320	320	305	285	270	275	275	275	280	280	285	285	290	280	285	290	290
	CNT	20	24	23	24	27	27	26	28	29	29	30	29	30	29	27	31	31	29	26	19	23	27	24	25
	UQ																								
	LQ																								
foF1	MED								U	U	U									U					
	CNT								380	480	560	550	600	600	600	580	580	570	540	480					
	UQ								4	3	3	5	10	14	18	17	15	10	8	2					
	LQ																								
foE	MED						U																		
	CNT						110	160	245	305	350	380	390	390	400	390	380	370	320	260	190				
	UQ						1	5	28	21	18	20	13	10	10	12	20	18	24	25	6				
	LQ																								
h'E	MED						E	E												E					
	CNT						140		110	108	105	105	105	105	105	105	105	105	105	112	E 7				
	UQ						1	6	24	24	25	26	25	24	25	25	23	26	26	20					
	LQ																								
foEs	MED	20	20	18	18	E		G	G							G	G								E
	CNT	30	29	29	29	28	16 28	28	29	36 30	42 31	41 30	43 30	43 27	44 28	29	29	40 31	40 30	39 30	36 31	30 31	24 30	22 31	31

SWEEP 1.5 MC TO 16.5 MC.

AUGUST, 1957

TABLE 79

TAMANRASSET, FRENCH W. AFRICA (22.8N, 5.5E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED		0	U	U	U	65	U	84	84	100	115	124	139	145	143	146	145	140	144	0 142	0 135	0 110	0 130	0 135
	CNT		5	125	62	57	9	85	14	11	11	15	18	17	15	9	8	7	6	7	3	2	1	2	2
	UQ			3	2	1		11																	
	LQ																								
h'F2	MED							U	U		U	U							U						
	CNT							240	228		375	362	370	378	382	370	355	330	335						
	UQ							1	2		1	4	9	14	12	14	14	11	3						
	LQ																								
h'F	MED	275	250	230	222	225	245	225	220	220	205	200	200	200	210	210	220	225	235	270	320	320	320	320	300
	CNT	27	27	27	26	25	27	27	28	23	21	18	16	13	21	21	17	17	23	26	43	23	26	27	26
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED							U	U		U	U								U					
	CNT							450	420		650	600	620	660	620	650	620	600	600						
	UQ							1	2		1	4	10	12	12	13	14	11	3						
	LQ																								
foE	MED						E										U			E					
	CNT						2	245	310	370	395	400	415	430	410	400	375	330	265	11					
	UQ						2	22	17	11	6	5	6	5	9	10	4	16	14						
	LQ																								
h'E	MED						E			100	100	100	98	95	100	90	100	100	105	E 11					
	CNT						2	110	100	26	22	11	8	7	9	15	20	21	20						
	UQ						2	22	21																
	LQ																								
foEs	MED	E	E	E	E	E	E			45	42	G	G	G	G	G	G	G				E	E	E	E
	CNT	28	28	28	28	28	28	33	34	28	28	28	27	25	28	28	26	28	33 29	30 29	44 29	29	29	29	29

SWEEP 1.36 MC TO 17.2 MC.

AUGUST, 1957

TABLE 80

DAKAR, FRENCH W. AFRICA (14.7N, 17.4W)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	60	58	60	59	58	50	65	83	96	104	113	120	126	129	U 139	129	125	126	120	114	103	95	76	72
	CNT	12	15	20	23	26	27	30	28	26	21	25	26	24	20	24	23	23	24	24	25	20	19	12	11
	UQ																								
	LQ																								
h'F2	MED								U 240	U 245	U 290	330	358	360	390	385	375	370	U 330						
	CNT								1	1	2	5	6	9	5	9	9	6	7	1					
	UQ																								
	LQ																								
h'F	MED	340	310	280	282	240	240	240	220	210	200	190	188	185	185	190	200	210	225	250	305	390	392	385	370
	CNT	30	30	29	29	29	27	31	30	27	26	27	21	25	15	26	23	31	28	29	27	30	31	30	30
	UQ																								
	LQ																								
(M3000)F2	MED	255	260	285	290	290	295	320	330	310	285	270	275	260	260	258	262	270	275	265	250	240	240	250	255
	CNT	10	12	17	21	24	25	28	25	22	19	25	26	23	15	20	20	17	22	18	21	17	15	13	9
	UQ																								
	LQ																								
foF1	MED									U									U						
	CNT									460	580	600	580	590	590	610	600	630	590						
	UQ									3	6	8	9	13	14	13	16	7	2						
	LQ																								
foE	MED							180	280	338	390	410	420	430	420	410	390	355	300	225	E				
	CNT							16	25	26	21	19	19	23	19	24	19	26	29	24	16				
	UQ																								
	LQ																								
h'E	MED							U	105	105	105	105	100	100	100	100	100	100	105	115	E				
	CNT							110	19	21	13	13	15	18	14	22	21	26	24	18	16				
	UQ							4																	
	LQ																								
foEs	MED	E	E	E	E	E				50	52	50	48	49	47	45	35	40	36	46	33	E	E	E	E
	CNT	30	30	29	29	29	28 27	42 27	49 30	28	26	26	24	25	19	27	24	31	29	27	27	30	31	30	30

SWEEP 1.25 MC TO 20.0 MC.

AUGUST, 1957

TABLE 81

DJIBOUTI, FRENCH SOMALILAND (11.6N, 43.2E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	96	92	73	68	85	57	67	96	108	120	124	126	128	124	128	133	134	130	134	110	100	96	88	90
	CNT	8	9	14	23	25	27	28	30	31	31	31	30	29	30	30	28	28	29	28	29	13	4	5	3
	UQ	U	U	U	U	U	U	U			U						U	U	U	U	U	U	U	U	U
	LQ																								
h'F2	MED										U	U		U	U		U								
	CNT										285	360		440	460	420	422	400	395	400					
	UQ										1	1		3	3	7	4	7	6	1					
	LQ																								
h'F	MED	310	290	260	240	230	220	255	240	225	220	220	210	210	210	220	220	230	245	272	330	420	380	374	358
	CNT	21	27	26	30	27	29	30	31	31	28	22	21	22	20	23	21	26	27	28	30	12	19	20	20
	UQ																								
	LQ																								
(M3000)F2	MED	U		U	U					U	U	U						U	U	U	U	U	U	U	U
	CNT	258		290	300	320	328	305	310	290	280	290	230	230	225	225	225	235	235	230	218	410	410	420	240
	UQ	2		2	5	7	14	18	17	28	21	25	28	29	29	28	21	22	20	11	12	1	1	3	1
	LQ																								
foF1	MED										U	U	U			U	U	U	U						
	CNT										490	640	750	580	660	660	610	600	640						
	UQ										1	3	1	7	8	9	7	8	3						
	LQ																								
foE	MED													U	U	U	U	U	U						
	CNT							135	275	335	375	400	420	428	420	410	390	358	310	222					
	UQ							28	31	29	25	20	15	14	14	21	21	22	16	8					
	LQ																								
h'E	MED							E				U	U			U	U	U	U						
	CNT							28	120	115	110	110				120	118	120	120						
	UQ								21	19	7	1				3	4	5	4						
	LQ																								
foEs	MED	23	23	20	22	18	20	23	33	39	54	92	94	95	94	90	56	60	55	44	66	E	E	E	23
	CNT	30	31	30	29	28	28	31	31	31	30	30	30	30	29	31	27	30	31	29	29	30	31	30	29

SWEEP 1.25 MC TO 20.0 MC.

AUGUST, 1957

TABLE 82

TANANARIVE, MADAGASCAR (18.8S, 47.5E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	50	45	38	33	32	32	48	85	90	90	90	90	86	99	92	90	92	91	92	87	80	79	60	54
	CNT	28	28	28	28	26	25	27	27	13	6	5	8	5	4	8	13	17	16	20	28	20	19	23	26
	UQ									O	O	O	O	O	U	D	D	D	D			U			
	LQ																								
h'F2	MED							U		U								U							
	CNT							340		270	280	280	290	285	270	290	330	295							
	UQ							1		1	11	22	17	20	15	9	13	3							
	LQ																								
h'F	MED	260	260	245	260	282	280	275	245	242	240	225	220	215	220	215	240	245	250	245	235	240	245	240	245
	CNT	28	28	27	26	26	25	26	30	30	29	24	26	23	20	22	23	30	31	32	31	30	29	29	29
	UQ																								
	LQ																								
(M3000)F2	MED	320	318	320	298	300	310	315	360	338			U		U	U	U	315	320	320	330	330	340	U	335
	CNT	28	28	28	26	26	25	26	26	8			345		310	300	300	8	9	17	22	15	15	348	24
	UQ												1		4	3	6							16	
	LQ																								
foF1	MED							U			U	U	U	U		U	U	U							
	CNT							190			610	560	540	530	500	540	580	470							
	UQ							1			1	10	13	15	8	6	9	1							
	LQ																								
foE	MED							U	U	U		U	U	U	U	U		U		E					
	CNT							130	250	310	360	365	400	400	390	380	360	320	250	29					
	UQ							27	28	21	12	3	1	1	3	5	19	29	29	19					
	LQ																								
h'E	MED							E												E					
	CNT							24	120	115	115	112	115	115	112	115	115	115	125	19					
	UQ								21	27	28	30	29	28	26	27	30	27	17						
	LQ																								
foEs	MED	23	26	16	17	18	18	17	G	G	G	G	G	G	G	G	G	35	30	29	20	19	E	47	28
	CNT	28	28	28	27	27	26	27	30	30	29	30	28	28	26	29	31	29	31	31	31	29	26	29	29

SWEEP 1.25 MC TO 20.0 MC.

AUGUST, 1957

TABLE 83

POITIERS, FRANCE (46.6N, 0.3E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	78	75	71	69	64	68	70	73	80	82	83	86	U	86	84	86	86	85	86	86	80	U	U	U
	CNT	31	31	31	31	31	31	30	31	31	28	28	30	29	30	31	29	27	30	29	29	28	27	30	30
	UQ																						80	82	80
	LQ																								
h'F2	MED					U																			
	CNT					425	368	360	358	365	352	385	400	395	390	390	360	355	340	320	300				
	UQ					1	12	17	22	28	26	24	27	26	26	29	27	26	26	26	5				
	LQ																								
h'F	MED	E	E	E	E			E														E	E	E	E
	CNT	305	310	305	300	305	265	250	240	220	222	225	220	220	225	232	230	235	245	250	272	270	280	300	305
	UQ	28	30	29	31	31	28	25	23	26	24	21	19	25	18	21	20	21	21	21	26	27	29	30	29
	LQ																								
(M3000)F2	MED	250	250	255	255	260	265	270	275	270	275	265	260	265	265	265	265	270	270	275	285	U		U	U
	CNT	9	14	15	23	23	22	22	16	10	12	7	6	10	10	13	12	12	15	8	5	275		255	255
	UQ																					3		2	3
	LQ																								
foF1	MED					U													U	U					
	CNT					260	370	450	500	550	550	580	600	600	600	590	560	550	540	460					
	UQ					2	9	14	17	23	23	20	25	26	24	28	25	21	19	8					
	LQ																								
foE	MED					U																U			
	CNT					165	195	270	320	355	380	390	400	400	400	400	380	360	330	285	208	160			
	UQ					2	23	29	30	31	29	31	31	30	27	28	26	29	28	29	30	6			
	LQ																								
h'E	MED					E															E	E			
	CNT					2	130	105	100	100	100	100	100	100	100	100	100	100	100	110	125	E			
	UQ						19	29	30	31	29	30	29	29	27	25	26	26	26	28	29	28			
	LQ																								
foEs	MED	23	25	25	27	26	30	36	39	43	44	48	46	45	50	45	44	42	44	34	34	36	36	32	27
	CNT	31	31	31	31	31	31	31	30	31	29	31	31	31	31	31	29	29	31	31	30	30	30	30	29

SWEEP 1.5 MC TO 16.5 MC.

JULY, 1957

TABLE 84

CASABLANCA, MOROCCO (33.6N, 7.6W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	90	88	90	88	84	77	78	86	86	86	86	92	96	100	104	104	104	103	97	91	88	87	88	90
	CNT	21	17	19	26	26	26	27	27	28	27	26	26	25	25	25	28	30	29	29	29	28	22	23	18
	UQ						U																		
	LQ						245																		
h'F2	MED						1	255	260	255	355	345	395	400	385	375	358	350	338	315	280				
	CNT							20	8	11	9	12	17	19	23	24	28	28	24	18	15				
	UQ																								
	LQ																								
h'F	MED	E	E	E	E	E	E					E	E	E	E		E					E	E	E	E
	CNT	340	315	305	300	300	290	260	240	240	225	245	265	295	300	285	260	245	250	250	272	280	300	325	335
	UQ	28	28	28	28	29	29	28	29	30	27	27	26	23	25	25	28	30	29	27	30	28	29	29	29
	LQ																								
(M3000)F2	MED	250	255	260	260	260	270	270	300	295	280	270	260	260	260	265	265	265	275	280	280	260	250	250	250
	CNT	13	9	13	20	22	26	28	29	28	27	25	24	24	25	25	26	30	29	27	24	19	15	16	13
	UQ																								
	LQ																								
foF1	MED							U	U	U										U					
	CNT							380	450	440	600	600	620	600	610	600	580	570	540	480					
	UQ							2	2	4	6	7	9	14	15	17	22	19	14	4					
	LQ																								
foE	MED						E																		
	CNT						19	280	400	330	370	380	400	400	390	400	380	370	340	280	200				
	UQ							23	21	28	22	26	21	15	12	15	22	25	24	25	23				
	LQ																								
h'E	MED						E																		
	CNT						19	110	100	105	100	100	100	100	105	105	102	105	105	110	130				
	UQ							23	28	29	29	27	28	26	27	27	28	29	25	23	22				
	LQ																								
foEs	MED	31	30	31	30	29	31	30	37	45	47	51	49	47	45	42	44	44	46	34	37	35	30	28	34
	CNT	29	28	29	29	29	29	29	29	29	29	29	28	26	27	28	28	30	30	30	30	29	29	29	28

SWEEP 1.5 MC TO 16.5 MC.

JULY, 1957

TABLE 85

TAMANRASSET, FRENCH W. AFRICA (22.8N, 5.5E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 60		U 63	U 100	U 63	U 70	U 86	U 78	U 95	U 113	120	128	136	138	U 138	U 135	U 140	U 130					
	CNT	1		1	2	3	3	4	2	5	2	5	5	5	4	5	2	3	1					
	UQ																								
	LQ																								
h'F2	MED							U 240			U 440	405	415	405	405	408	375	U 318	U 290						
	CNT							2			3	10	5	9	10	10	7	2	1						
	UQ																								
	LQ																								
h'F	MED	315	302	292	275	250	265	235	230	225	222	205	U 215	U 185	205	215	225	235	245	275	320	352	365	340	328
	CNT	15	12	12	14	12	11	11	13	9	14	7	4	1	5	11	11	9	12	14	11	12	11	13	14
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED								U 450			U 630	620	600	620	590	600	600	U 550	U 380					
	CNT								2			3	8	5	7	8	10	5	1	1					
foE	MED						160	260	320	U 355	390	U 400	U 420	U 412	420	395	380	345	285	205					
	CNT						5	8	5	4	6	3	1	4	5	7	10	6	10	6					
h'E	MED					E		120	110	105	105	105	105	100	105	102	108	108	115	130					
	CNT					5		9	9	11	15	13	9	7	9	14	16	14	11	5					
foEs	MED	E	E	E	E	E		29	31	42	43	40	43	40	48	G	G	G	G	G			E	E	E
	CNT	15	14	15	15	14		13	13	11	15	14	13	15	13	15	15	14	34	32	21	18	14	14	16

SWEEP 1.36 MC TO 17.2 MC IN 1 MINUTE.

JULY, 1957

TABLE 86

DAKAR, FRENCH W. AFRICA (14.7N, 17.4W)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	48	48	48	50	51	53	70	85	90	100	107	115	120	124	124	124	125	120	114	108	94	88	70	62
	CNT	5	12	15	18	21	23	22	18	17	18	19	18	20	19	17	16	20	21	22	26	26	17	7	5
	UQ																								
	LQ																								
h'F2	MED							U 300	U 260	U 265	U 370	380	410	425	430	430	410	375	440	510	U 540				
	CNT							1	1	4	4	6	10	11	11	13	9	13	9	6	2				
	UQ																								
	LQ																								
h'F	MED	370	350	350	320	290	270	250	235	220	210	210	190	200	208	210	215	220	235	260	320	435	450	425	400
	CNT	26	26	26	25	23	24	23	21	14	17	18	17	17	15	15	15	18	23	24	26	26	26	26	26
	UQ																								
	LQ																								
(M3000)F2	MED	210	250	250	260	275	270	315	325	300	260	255	255	260	260	260	262	255	255	260	240	230	230	235	U 248
	CNT	5	11	10	14	16	19	21	15	17	18	19	18	20	16	9	12	15	17	18	14	18	15	5	4
	UQ																								
	LQ																								
foF1	MED										U 600	640	630	620	U 620	610	590	570	U 580	U 810	U 570				
	CNT										4	5	10	10	8	11	9	7	1	3	2				
foE	MED							190	290	U 340	U 380	420	430	435	425	410	395	350	310	225					
	CNT							5	7	3	3	6	9	8	9	10	5	4	16	10					
h'E	MED							130	110	U 105	U 105	105	105	105	105	105	105	105	105	120					
	CNT							5	7	3	3	6	9	8	10	10	7	9	16	10					
foEs	MED	35	35	27	E	E	35	48	52	57	56	54	52	53	50	50	48	44	46	50	47	E	E	E	32
	CNT	26	27	26	25	23	24	21	18	13	16	18	17	17	16	16	15	17	22	20	21	25	25	25	26

SWEEP 1.25 MC TO 20.0 MC.

JULY, 1957

TABLE 87

OJIBOUTI, FRENCH SOMALILAND (11.6N, 43.2E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 74	U 73		U 79	U 68	U 52	70	96	105	110	U 115	U 120	116	115	120	124	126	122	108	100	92	U 90	U 115	90
	CNT	1	1		1	1	5	21	26	26	26	26	26	28	27	28	17	17	16	7	12	5	4	4	1
	UQ																								
	LQ																								
h'F2	MED									U 410	U 322	U 425	U 440	U 425	U 460	U 480	U 500	U 420							
	CNT									1	2	1	2	4	3	1	3	3							
	UQ																								
	LQ																								
h'F	MED	402	380	345	300	260	235	265	245	238	228	220	230	220	220	212	220	230	245	270	320	400	390	390	395
	CNT	20	18	17	17	19	21	29	28	30	28	20	19	21	22	23	22	23	25	27	27	13	11	18	24
	UQ																								
	LQ																								
(M3000)F2	MED	U 215			U 290	U 295	U 268	275	285	262	240	220	210	200	205	210	205	208	210	U 185	195	U 192	U 185	U 190	U 205
	CNT	1			1	1	4	18	22	24	25	24	24	26	26	25	14	17	10	3	9	4	3	3	1
	UQ																								
	LQ																								
foF1	MED									U 530	U 550	U 700	U 650	U 620	U 640	U 630	U 570	U 630							
	CNT									1	1	1	3	4	2	3	1	3							
foE	MED							U 145	270	340	370	400	U 418	425	U 420	415	390	350	U 330	240	110	U 90			
	CNT							21	25	29	28	25	22	18	19	25	28	22	12	13	17	1			
h'E	MED							E 130	110	110	110	115	112	110	E 120	120	120	128	U 130	U 140	E	E			
	CNT							9	18	14	20	16	7	8	4	8	6	4	1	1	18	1			
foEs	MED	24	30	39	39	24	24	23	40	40	44	57	94	94	95	90	80	90	84	48	24	E	E	E	21
	CNT	27	29	29	29	27	27	28	29	30	29	29	29	30	30	31	29	30	29	30	29	29	28	28	29

SWEEP 1.25 MC TO 20.0 MC.

JULY, 1957

TABLE 88

TANANARIVE, MADAGASCAR (18.8S, 47.5E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	36	34	32	29	28	27	33	81	D 95	D 92	D 90	D 90	D 90	D 98	D 91	D 90	D 90	D 90	90	77	58	56	49	41
	CNT	26	26	26	26	25	25	25	22	12	9	10	9	11	3	10	12	17	22	23	22	22	25	25	27
	UQ																								
	LQ																								
h'F2	MED									U 335	270	260	280	280	300	305	300	U 298							
	CNT									1	8	10	14	17	21	14	11	4							
	UQ																								
	LQ																								
h'F	MED	255	260	280	270	285	280	280	250	240	240	230	220	220	230	240	240	245	250	230	230	245	245	240	250
	CNT	26	26	26	26	25	25	25	27	27	26	25	21	24	21	19	26	28	28	26	27	27	27	27	26
	UQ																								
	LQ																								
(M3000)F2	MED	315	315	315	305	295	315	305	365	328				U 370	U 310	U 315	U 290	300	325	335	340	340	340	330	340
	CNT	26	26	24	25	25	25	25	20	6				1	2	5	4	5	8	21	20	17	20	25	26
	UQ																								
	LQ																								
foF1	MED									U 630	U 610	U 560	540	570	570	570	U 590	U 460							
	CNT									1	3	2	8	11	17	10	9	1							
foE	MED								235	300	350	375	U 390	U 330	U 395	365	380	340	455	E					
	CNT								21	18	15	10	3	1	4	6	20	27	19	13					
h'E	MED								120	115	110	110	110	110	110	110	110	105	U 110	E					
	CNT								4	21	19	21	22	22	23	24	24	24	6	9					
foEs	MED	31	31	31	32	31	34	28	29	U	G	G	G	G	G		35	42	38	35	32	32	31	31	30	31
	CNT	26	26	26	26	25	25	26	26	26	26	25	25	26	28		27	28	28	28	24	26	28	27	27

SWEEP 1.25 MC TO 20.0 MC.

JULY, 1957

TABLE 89

PORT LOCKROY (64.8S, 63.5W)

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	25	24	24	24	25	23	24	24	U 30	53	82	84	89	94	84	62	63	52	34	26	23	23	23	24
	CNT	22	22	21	22	22	22	23	22	14	12	23	20	22	23	17	18	14	21	16	19	21	20	21	18
	UD																								
	LD																								
h'F2	MED																								
	CNT																								
	UD																								
	LD																								
h'F	MED																								
	CNT																								
	UD																								
	LD																								
(M3000)F2	MED	250	245	250	245	245	250	275	290	U 290	335	345	335	340	345	340	U 335	U 325	335	U 305	285	275	260	250	250
	CNT	15	16	16	14	14	13	18	18	9	10	16	15	14	18	10	9	7	13	8	14	16	18	16	12
	UD																								
	LD																								
foF1	MED																								
	CNT																								
foE	MED								120	120	170	190	210	230	220	200	180	160							
	CNT								8	8	12	14	10	8	10	14	18	5		2	3	2			
h'E	MED																								
	CNT																								
foEs	MED	23	20	22	13	14	15	16	14	16	22	27	27	29	32	30	23	27	21	17	20	23	19	20	14
	CNT	18	15	9	7	11	18	21	19	23	22	23	21	18	18	15	15	16	13	14	11	16	17	20	21

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC.

JULY, 1957

TABLE 90

SAO PAULO, BRAZIL (23.5S, 46.5W)

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	90	80	77	68	52	40	33	70	104	130	138	132	134	137	139	142	D 140	D 140	136	113	110	108	105	100
	CNT	20	21	22	22	21	20	17	18	18	19	20	19	16	15	16	17	16	18	18	20	20	20	19	20
	UD																								
	LD																								
h'F2	MED																								
	CNT																								
	UD																								
	LD																								
h'F	MED	230	240	240	235	240	260	E 280	265	250	245	235	230	220	220	230	240	260	260	230	230	245	250	240	230
	CNT	20	20	22	21	20	19	16	19	18	18	17	17	17	11	15	14	16	19	18	20	20	20	20	20
	UD																								
	LD																								
(M3000)F2	MED	300	300	310	310	300	290	290	310	315	310	310	295	275	270	265	270	290	300	320	310	290	300	305	300
	CNT	20	21	22	22	21	20	17	16	17	15	17	16	15	14	14	15	11	17	16	18	19	19	18	19
	UD																								
	LD																								
foF1	MED																								
	CNT																								
foE	MED								E 210	270	340	360	380	380	U 380	370	350	310	U 240						
	CNT								11	8	15	13	10	10	6	10	10	9	5						
h'E	MED								E 140	120	110	120	110	120	120	120	125	125	120						
	CNT								2	14	15	15	11	8	6	9	10	8	4						
foEs	MED																								
	CNT																								

SWEEP 1.75 MC TO 20.0 MC IN 2 MINUTES 30 SECONDS.

JUNE, 1957

TABLE 91

FREIBURG, GERMANY (48.1N, 7.8E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	59	58	54	50	45	44	60	82	102	116	126	128	128	125	122	118	120	115	104	90	80	72	68	63
	CNT	31	30	30	29	29	29	30	28	29	30	26	27	21	27	29	29	29	29	28	31	30	30	31	31
	UD	67	65	62	58	53	50	70	93	110	126	133	128	134	128	127	122	122	117	108	93	84	78	71	70
	LD	55	48	47	46	40	36	56	70	85	106	114	117	115	116	114	113	112	109	96	82	74	63	62	53
h'F2	MED								510	500	425	330	250	265		290									
	CNT								2	3	3	4	6	2		1									
	UD																								
	LD																								
h'F	MED	300	300	300	300	270	280	250	230	225	225	220	220	220	220	225	230	238	235	230	230	238	255	275	292
	CNT	29	29	28	29	27	28	28	28	25	27	26	22	22	25	30	29	30	31	31	31	30	27	27	28
	UD																								
	LD																								
(M3000)F2	MED	242	240	240	240	245	255	295	300	295	285	280	275	270	265	270	270	280	290	285	275	260	255	245	240
	CNT	30	30	29	29	28	27	28	27	27	28	25	27	20	26	29	28	29	29	28	29	30	31	31	31
	UD	250	250	248	255	255	270	302	310	300	295	285	290	280	280	280	282	288	295	290	282	270	265	255	255
	LD	225	230	225	230	230	245	282	285	285	278	268	270	268	260	265	265	272	280	280	262	255	245	235	230
foF1	MED								440	460	485	500	490	490											
	CNT								2	2	2	2	3	1											
foE	MED							162	260	300	330	350	360	365	355	340	310	276	215						
	CNT							22	23	23	25	22	23	22	28	29	29	30	22						
h'E	MED							121	111	107	105	105	105	105	105	105	105	111	119						
	CNT							11	23	23	23	23	21	21	20	21	23	25	25						
foEs	MED	E	E	E	E	E	E	G	G	G	G	G	G	G	G	G	G	G	G		E	E	E	E	E
	CNT	30	30	30	29	29	29	29	28	26	30	28	27	27	31	31	30	30	31	15 31	30	31	31	31	31

SWEEP 1.25 MC TO 20.0 MC IN 3 MINUTES.

MARCH, 1957

TABLE 92

FREIBURG, GERMANY (48.1N, 7.8E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	48	46	46	42	39	36	42	74	103	120	126	135	128	127	125	120	115	106	89	74	63	58	53	50
	CNT	27	26	26	26	28	24	27	25	25	24	22	22	23	18	21	23	23	21	26	26	28	26	28	26
	UD	51	49	50	47	44	40	47	84	114	129	132	137	135	136	130	126	121	112	94	80	68	63	58	57
	LD	43	40	41	40	35	32	37	68	90	104	112	120	119	115	117	115	108	100	85	67	57	49	48	47
h'F2	MED									210		235	258	254	220										
	CNT									1		1	2	2	1										
	UD																								
	LD																								
h'F	MED	300	305	308	305	280	275	252	230	220	220	220	220	220	225	225	225	225	225	220	220	245	260	270	290
	CNT	26	26	26	26	26	25	26	27	26	25	24	24	26	24	27	24	25	25	26	26	26	25	23	25
	UD																								
	LD																								
(M3000)F2	MED	245	250	245	255	265	262	272	315	315	310	300	295	295	295	300	298	300	305	305	290	278	265	258	250
	CNT	24	23	25	24	25	24	24	25	22	21	17	20	21	18	20	20	19	21	26	26	26	26	26	26
	UD	265	260	262	260	272	270	282	322	325	320	315	300	300	300	300	305	310	310	310	300	295	285	275	270
	LD	235	240	238	240	250	258	260	302	310	302	295	290	290	290	290	290	295	298	300	280	255	245	240	240
foF1	MED																								
	CNT																								
foE	MED							E 160	180	255	295	320	330	335	325	305	275	220	150						
	CNT							1	19	20	25	25	25	24	24	27	24	17	8						
h'E	MED								115	111	110	109	109	111	110	111	111	116	E						
	CNT								8	19	18	19	19	18	16	20	18	14	9						
foEs	MED	E	E	E	E	E	E	E	G	G	G	G	G	G	G	G	G	23	17	E	E	E	E	E	E
	CNT	25	25	26	26	27	27	27	27	26	26	25	26	25	24	27	25	24	24	26	26	14 26	26	26	26

SWEEP 1.25 MC TO 20.0 MC IN 3 MINUTES.

FEBRUARY, 1957

TABLE 93

FREIBURG, GERMANY (48.1N, 7.8E)

TIME 0.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	44	44	43	40	37	35	36	61	96	114	126	126	121	121	119	114	106	86	75	62	48	45	44	43
	CNT	29	28	29	28	29	29	30	25	27	26	25	24	25	22	26	23	19	26	29	28	31	30	31	29
	UQ	51	50	46	44	39	38	38	69	102	126	130	134	124	127	125	120	115	94	80	66	58	58	50	48
	LQ	41	40	40	37	34	32	34	57	88	106	118	122	115	114	114	108	97	78	69	55	42	41	34	38
h'F2	MED										240	240	245	238											
	CNT										2	1	2	2											
	UQ																								
	LQ																								
h'F	MED	285	290	290	280	272	262	255	230	220	220	220	225	220	225	230	225	220	215	225	220	235	275	290	300
	CNT	28	29	29	27	28	26	25	28	28	29	27	26	25	25	26	27	27	26	27	27	28	46	21	27
	UQ																								
	LQ																								
(M3000)F2	MED	260	260	255	268	268	270	280	305	325	315	305	305	295	290	295	300	300	290	300	295	275	265	260	258
	CNT	28	27	28	28	26	26	25	25	24	25	22	21	22	21	22	22	19	22	27	26	30	30	28	26
	UQ	265	270	268	282	285	285	288	310	332	325	318	315	310	300	300	315	320	300	315	305	285	265	265	263
	LQ	245	245	248	252	255	250	258	292	315	308	300	302	285	280	285	290	290	285	290	280	260	260	248	250
foF1	MED																								
	CNT																								
foE	MED								255	225	270	305	320	322	312	290	245	172							
	CNT								23	19	25	27	25	26	22	23	21	14							
h'E	MED								138	119	111	111	110	111	112	113	119	135							
	CNT								8	15	22	24	24	19	18	17	14	2							
foEs	MED	E	E	E	E	E	E	E	G	G	G		32	36	34	31	27	21	22	E	E	E	E	E	E
	CNT	30	30	31	30	30	30	30	25	25	27	26	27	28	25	25	24	25	25	27	29	31	30	31	30

SWEEP 1.25 MC TO 20.0 MC IN 3 MINUTES.

JANUARY, 1957

TABLE 94

CAMPBELL I. (52.5S, 169.4E)

TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED						68	71	74	75	75	76	77	79	76	77	77	80	80	81	83	85	80	79	74
	CNT						25	23	23	27	25	27	27	28	29	28	22	30	30	26	27	24	24	24	22
	UQ																								
	LQ																								
h'F2	MED						240	240	440	440	460	450	460	480	490	480	450	410	400	300	300	300	300	310	320
	CNT						24	18	10	17	18	23	26	29	27	28	22	20	24	19	25	28	23	26	24
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED						260	260	260	260	250	250	250	240	240	240	250	250	250	250	250	250	240	240	240
	CNT						23	19	21	25	22	25	26	28	27	27	22	29	28	26	23	20	21	20	16
	UQ																								
	LQ																								
foF1	MED					U															U				
	CNT					350	420	540	530	570	580	590	580	600	590	570	560	530	470	380					
						1	7	13	40	20	27	30	29	27	27	22	29	24	10	4					
foE	MED						280	310	340	360	380	400	400	400	410	400	380	360	330	290	250	180			
	CNT						20	19	26	25	25	25	27	23	21	25	23	29	30	24	22	12			
h'E	MED						110	110	110	110	110	110	110	110	110	100	110	110	110	110	140	130			
	CNT						21	19	27	28	27	27	27	27	26	26	23	29	30	25	22	6			
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 13.0 MC IN 2 MINUTES.

JANUARY, 1957

TABLE 95

LWIRO, CONGO (2.3S, 28.8E)

TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D	D													U				D	D	D	D	D	D
	CNT	100	97	78	66	60	45	58	102	123	120	118	118	126	122	128	131	130	134	134	140	132	148	114	127
	UQ	21	20	16	16	20	22	20	25	26	27	27	25	27	27	29	29	30	29	28	30	28	27	27	24
	LQ																								
h'F2	MED								252	260	270	280	300	330	335	368	345	330	310	D					
	CNT								22	25	25	25	23	27	22	24	25	19	9						
	UQ																								
	LQ																								
h'F	MED	220	220	230	225	230	235	268	240	230	210	210	205	200	200	210	220	230	240	255	245	230	210	210	220
	CNT	26	26	25	24	23	23	24	27	23	20	19	16	17	16	20	13	20	22	28	30	29	28	27	27
	UQ																								
	LQ																								
(M3000)F2	MED	303	324	306	313	313	315	305	326	332	314	306	287	278	268	258	265	265	273	U 291			U 330		U 314
	CNT	9	15	15	13	19	21	18	24	26	26	26	23	23	24	24	26	27	25	8	4	2	5	4	7
	UQ																								
	LQ																								
foF1	MED											500	505	510	500										
	CNT										1	7	12	11	6	4									
foE	MED							E	250	308	354	373	383	394	388	372	353	308	255						
	CNT							12	24	24	26	24	23	21	20	23	21	19	12						
h'E	MED								119	111	111	109	109	108	109	110	111	111	112						
	CNT								23	22	23	22	22	19	18	21	18	17	12						
foEs	MED	22	22	28	24	26	24	19	32	35	37	36	21				24	40	42	30	30	28	26	20	47
	CNT	26	26	25	24	25	27	25	27	26	27	27	25	27	27	29	29	30	29	28	30	29	28	27	27

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

JUNE, 1956

TABLE 96

LWIRO, CONGO (2.3S, 28.8E)

TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D	D	U									U	D	D	D	D	D	D	D	D	D	D	D	D
	CNT	132	112	103	82	64	55	72	105	127	130	132	131	139	134	134	140	140	140	130	135	140	132	132	133
	UQ	22	22	21	22	23	23	22	23	23	24	25	28	28	28	30	30	30	29	30	29	26	24	21	23
	LQ																								
h'F2	MED								255	260	270	285	300	335	360	370	360	352	345						
	CNT								16	21	22	19	18	19	17	19	19	14	7						
	UQ																								
	LQ																								
h'F	MED	220	215	210	220	220	230	260	240	235	225	210	205	200	200	210	220	230	240	260	270	260	220	215	225
	CNT	2	23	23	23	22	19	22	19	19	18	19	23	20	17	18	27	22	25	27	28	25	25	22	21
	UQ																								
	LQ																								
(M3000)F2	MED	310	317	300	307	314	317	308	314	312	300	289	274	264	261	263	260	268	272	U 288					
	CNT	12	15	15	17	21	22	21	22	21	21	20	21	17	17	17	20	19	15	5	3	1	2	4	3
	UQ																								
	LQ																								
foF1	MED												510												
	CNT											4	8	2	4	2	1								
foE	MED							E	252	319	356	375	389	399	390	375	354	346	254						
	CNT							8	21	23	24	23	23	18	15	21	23	19	17						
h'E	MED								117	111	111	110	109	109	109	110	111	111	113						
	CNT								16	21	22	21	15	15	10	13	10	13	9						
foEs	MED	14	E	17	18	16	19	21	32	E	E				41	27	32	29	33	28	26	20	20	16	16
	CNT	23	24	23	24	25	23	23	23	23	24	24	21	26	21	26	28	29	29	30	29	26	26	24	24

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

MAY, 1956

TABLE 97

LWIRO, CONGO (2.3S, 28.8E)

TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 138	Q 126	D 107	Q 100	84	62	66	105	120	129	131	D 140	D 140	D 140	D 140	D 140	D 140	D 140	D 140	D 133	D 132	D 132	D 134	D 138
	CNT	23	21	21	18	23	22	24	24	25	26	24	23	23	23	25	26	24	25	25	23	22	22	23	24
	UQ																								
	LQ																								
h'F2	MED								240	258	255	320		350	380	392	365	342							
	CNT								7	16	13	7	4	5	7	12	14	10	4						
	UQ																								
	LQ																								
h'F	MED	220	210	218	225	218	215	240	235	225	225	205	200	200	200	210	228	235	250	272	305	472	220	212	215
	CNT	24	24	24	25	24	23	23	22	22	21	15	17	17	10	13	16	19	21	22	23	22	23	24	24
	UQ																								
	LQ																								
(M3000)F2	MED			303	296	305	324	332	308	328	315	288	262	253	248	245	236	U 246	255	U 262					
	CNT		4	12	15	13	19	20	23	23	19	20	22	16	14	13	9	7	9	8		1			4
	UQ																								
	LQ																								
foF1	MED											500													
	CNT											6	4	3	1	4									
foE	MED							E																	
	CNT							7	256 19	320 24	357 24	383 22	396 19	407 16	402 14	385 16	360 20	320 18	270 12						
h'E	MED								119	112	111	111	109	109			111	111	113						
	CNT								16	17	15	9	6	5	3	2	8	11	10						
foEs	MED	E	E	E	E																			E	
	CNT	24	24	24	25	15 25	18 24	18 24	28 24	28 24	25 25	43 19	35 16	33 13	44 14	40 12	39 21	35 23	32 25	26 25	23 23	19 23	17 23	24	14 24

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

APRIL, 1956

TABLE 98

LWIRO, CONGO (2.3S, 28.8E)

TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 130	D 108	102	100	83	60	53	98	109	118	127	136	145	D 140	D 142	D 146	D 140	D 140	D 130	D 132	D 132	D 135	D 140	D 140
	CNT	23	20	19	22	20	23	25	26	27	30	31	29	29	31	28	30	30	30	30	28	23	22	23	19
	UQ																								
	LQ																								
h'F2	MED								245	250	250	288	305	392	370	370	365	360	345						
	CNT								11	21	17	10	9	12	17	22	24	23	19						
	UQ																								
	LQ																								
h'F	MED	210	210	230	230	215	205	238	235	220	215	210	200	200	210	210	220	225	235	265	318	280	230	200	200
	CNT	29	29	29	29	24	28	28	25	27	28	26	26	20	25	22	26	29	27	28	28	29	29	29	28
	UQ																								
	LQ																								
(M3000)F2	MED	U 326	308	309	311	330	341	314	336	325	290	274	267	258	260	263	262	267	274			1	1	4	4
	CNT	8	16	15	17	17	22	25	24	27	28	27	25	22	12	16	18	19	14	4	3				
	UQ																								
	LQ																								
foF1	MED											1	3	1	510 5	500 8	2								
	CNT																								
foE	MED							E	249	316	354	384	400	407	401	387	366	332	278	190					
	CNT								19	21	28	25	21	22	21	18	24	24	26	5					
h'E	MED								119	111	111	111	109	109	107	111	111	111	112						
	CNT								13	15	20	12	9	6	6	6	12	19	21	1					
foEs	MED	E	E	E	E																				
	CNT	29	29	29	29	14 29	14 29	18 28	28 28	30 26	28	42	20	14	26 13	25 13	21	28	20 30	24 30	25 28	16 29	E 29	E 29	E 28

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

MARCH, 1956

TABLE 99

LWIRO, CONGO (2.3S, 28.8E)

TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	99	U 83	90	71	57	44	46	76	94	104	108	120	126	130	D 129	U 132	130	128	128	U 130	D 122	D 129	D 130	D 134
	CNT	25	22	22	24	24	26	24	25	26	26	23	25	26	24	27	27	29	27	26	28	26	28	27	27
	UQ																								
	LQ																								
h'F2	MED								250	280	305	405	440	425	410	420	395	385	380	355					
	CNT								15	17	14	10	17	18	18	25	22	26	18	7					
	UQ																								
	LQ																								
h'F	MED	200	230	245	235	215	228	255	245	235	225	220	210	210	215	220	220	230	240	265	300	315	270	230	210
	CNT	26	27	25	29	27	24	23	24	22	24	21	22	25	20	20	20	24	21	24	27	26	28	26	27
	UQ																								
	LQ																								
(M3000)F2	MED	294	280	302	307	320	320	296	314	293	268	252	250	248	251	254	254	261	258	262	257	U 262	U 288	U 318	336
	CNT	19	21	18	23	21	26	24	24	25	26	23	25	26	21	22	24	24	27	22	21	12	14	14	14
	UQ																								
	LQ																								
foF1	MED											U 500	500	U 510	500	490									
	CNT										2	10	10	13	12	8	4	4	2						
foE	MED							E	250	315	351	373	390	395	400	385	367	333	280	187					
	CNT							25	19	22	23	20	22	21	22	23	22	22	17	20					
h'E	MED							E	117	111	110	111	110	111	111	111	111	112	112	125					
	CNT								12	15	12	11	10	5	7	6	13	15	14	11					
foEs	MED	E	E	E	E	E											30				L	E	E	E	E
	CNT	26	27	26	28	27	13 27	17 25	25 25	26 24	30 21	18	22 20	19	18	18	23	32 27	28 26	18 22	28	27	28	26	27

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

FEBRUARY, 1956

TABLE 100

LWIRO, CONGO (2.3S, 28.8E)

TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	70	69	62	54	48	40	45	69	80	88	94	U 104	112	121	118	113	110	111	109	U 104	U 104	113	112	86
	CNT	28	30	28	29	28	28	27	28	27	28	28	29	30	31	31	29	28	30	30	30	29	25	28	28
	UQ																								
	LQ																								
h'F2	MED								260	300	320	350	420	382	355	352	375	420	415	U 395					
	CNT								11	18	17	14	17	26	27	26	25	40	15	6					
	UQ																								
	LQ																								
h'F	MED	230	255	240	230	235	240	262	240	220	220	210	208	200	200	205	210	215	230	265	318	325	280	235	210
	CNT	30	31	28	30	29	26	26	29	28	27	26	22	23	21	23	21	22	28	28	28	30	29	30	31
	UQ																								
	LQ																								
(M3000)F2	MED	28	30	28	29	28	28	27	28	27	27	26	25	262	274	266	263	253	256	262	253	261	280	320	311
	CNT													28	31	30	29	26	28	23	25	25	25	27	28
	UQ																								
	LQ																								
foF1	MED										500	510	520	528	515	500	490								
	CNT										7	11	17	22	22	17	8	2							
foE	MED							E	246	301	344	365	381	367	384	375	352	308	259	171					
	CNT								23	23	27	25	27	25	27	26	25	17	18	17					
h'E	MED								119	112	111	111	109	109	109	111	111	111	113	121					
	CNT								16	20	24	20	16	16	13	16	23	22	15	9					
foEs	MED	E	E	E	E	E				21	E											19	16	E	E
	CNT	30	31	28	29	29	17 28	18 28	28 29	28	29	26	24	21	20	25	28	18 28	30	20 30	19 29	30	30	30	31

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

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JANUARY, 1956

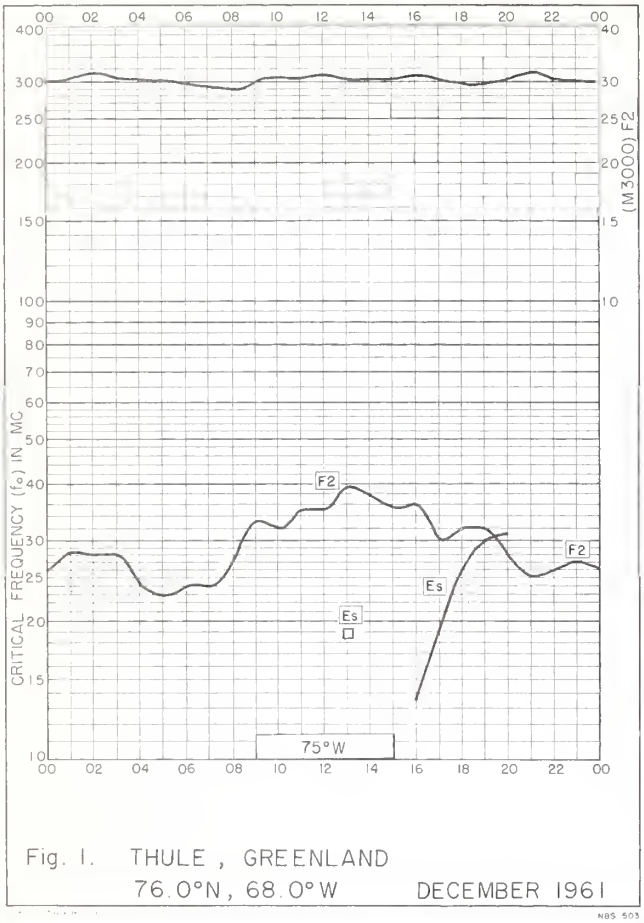

Fig. 1. THULE, GREENLAND
76.0°N, 68.0°W DECEMBER 1961

Fig. 2. FAIRBANKS, ALASKA
64.9°N, 147.8°W DECEMBER 1961

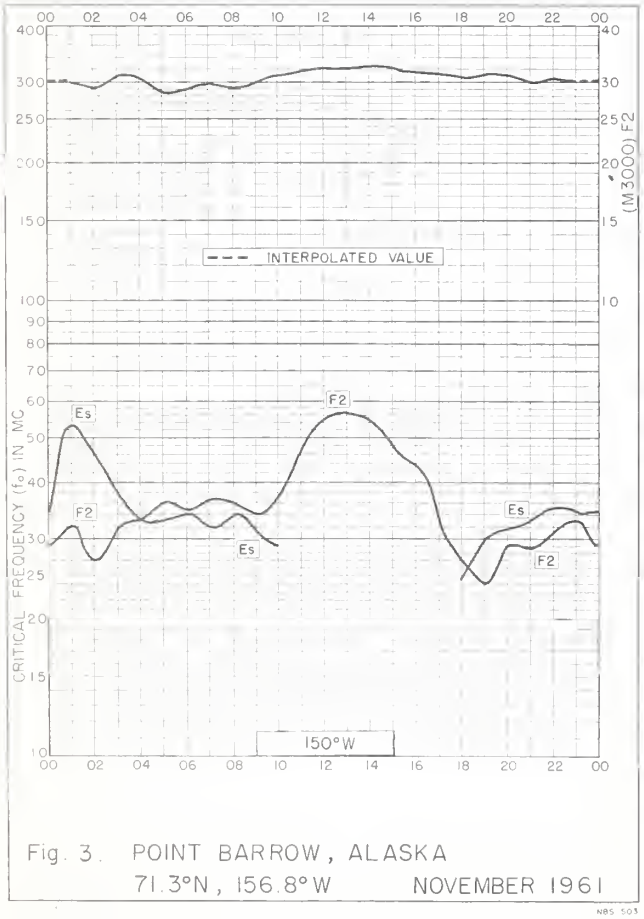

Fig. 3. POINT BARROW, ALASKA
71.3°N, 156.8°W NOVEMBER 1961

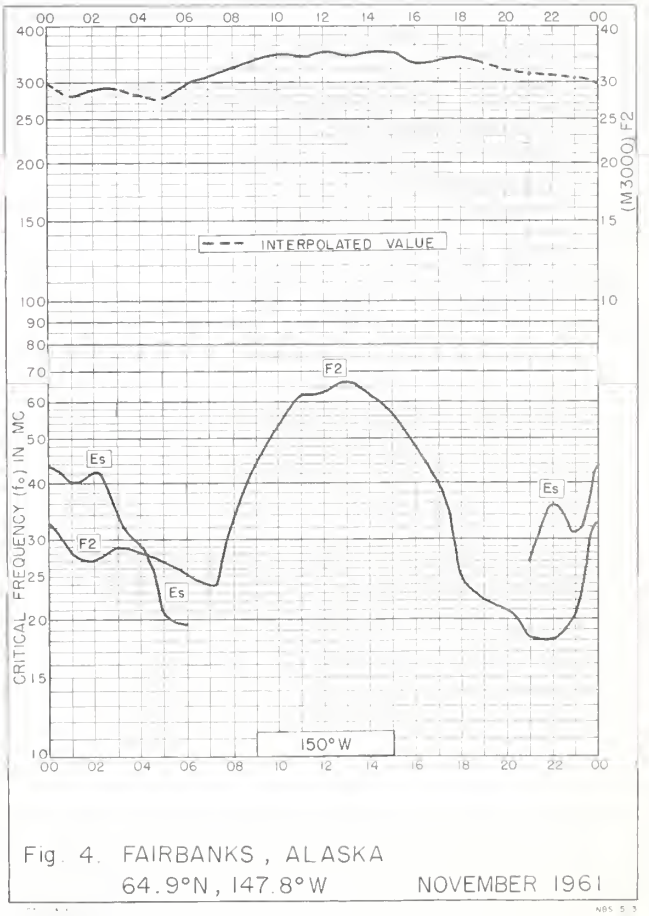

Fig. 4. FAIRBANKS, ALASKA
64.9°N, 147.8°W NOVEMBER 1961

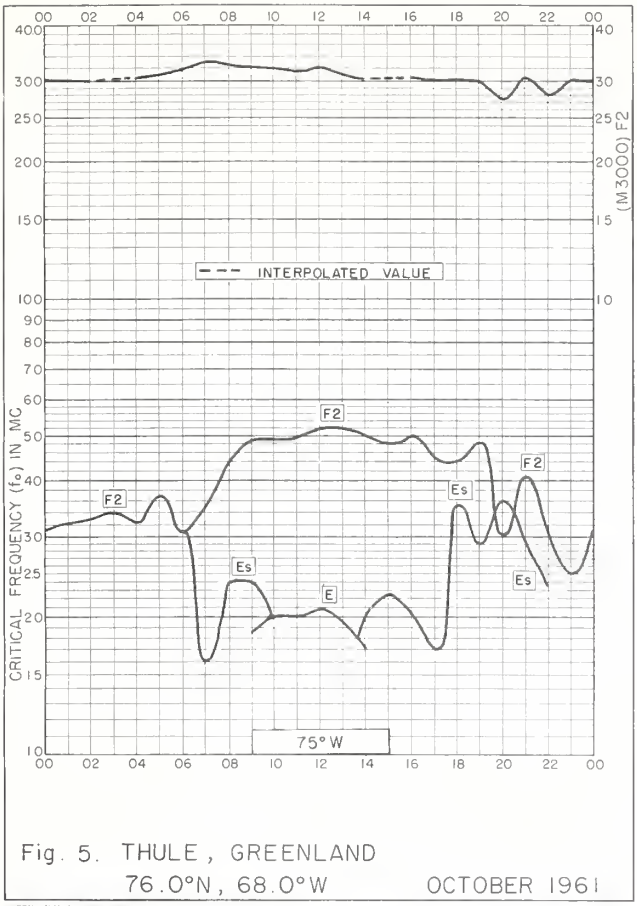

Fig. 5. THULE, GREENLAND
76.0°N, 68.0°W OCTOBER 1961

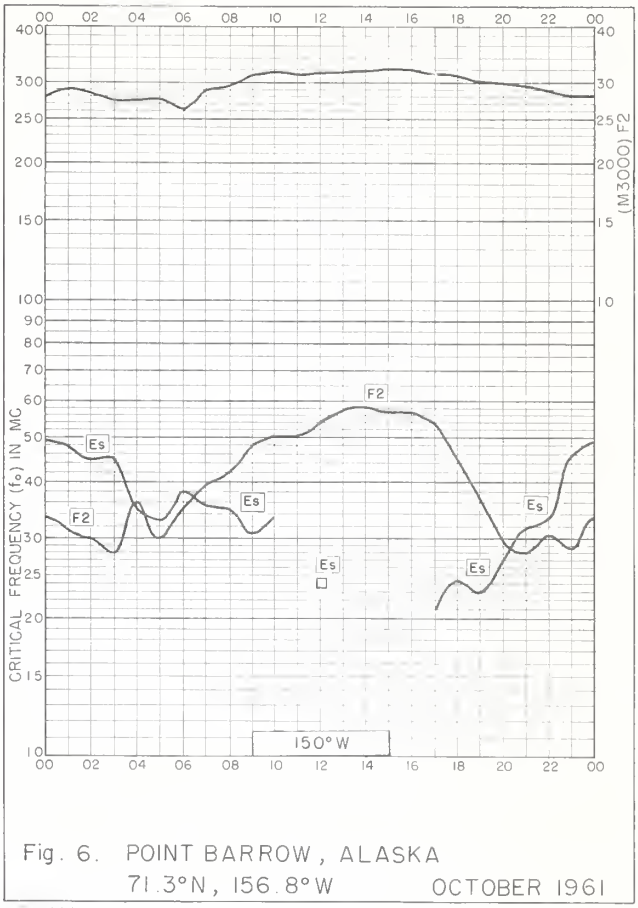

Fig. 6. POINT BARROW, ALASKA
71.3°N, 156.8°W OCTOBER 1961

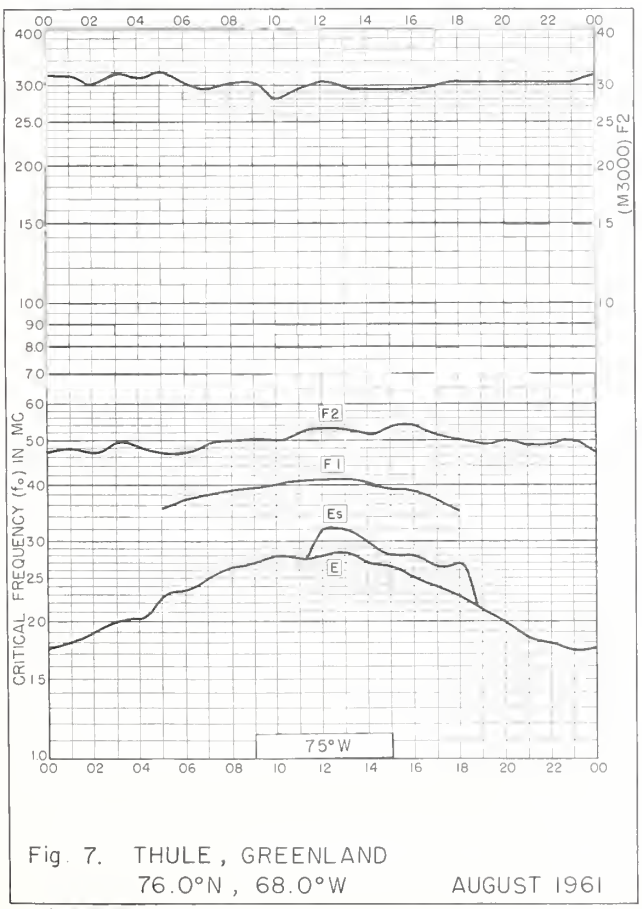

Fig. 7. THULE, GREENLAND
76.0°N, 68.0°W AUGUST 1961

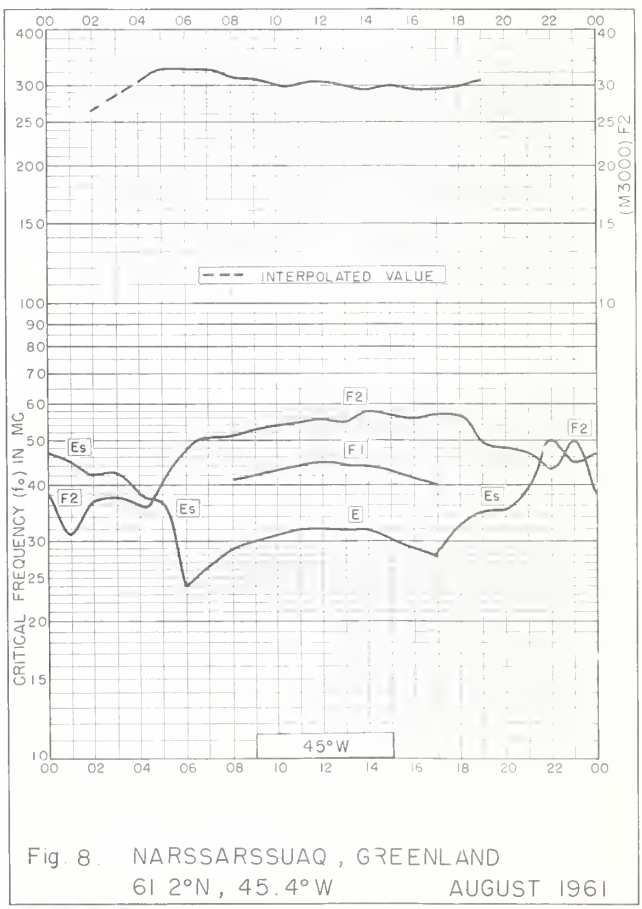

Fig. 8. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4°W AUGUST 1961

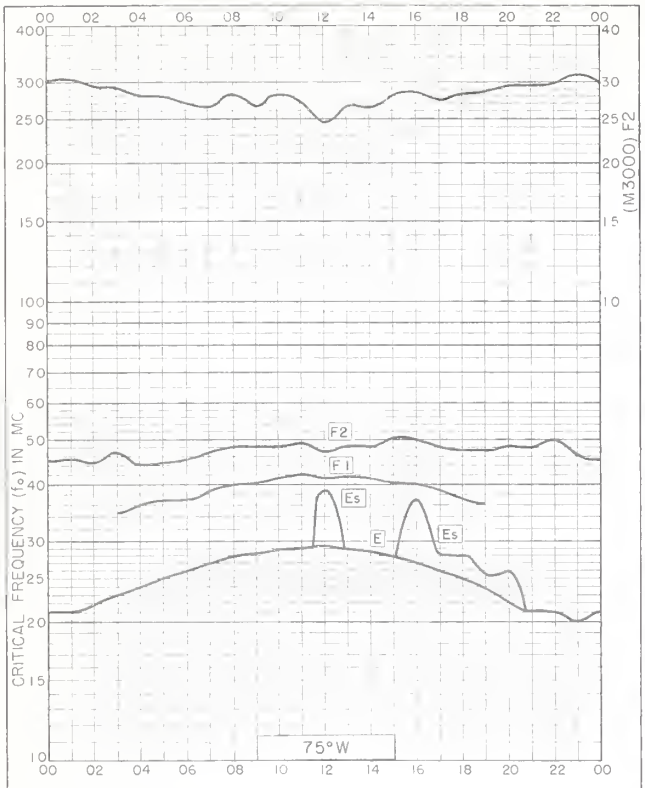

Fig. 9. THULE, GREENLAND
76.0°N, 68.0°W JULY 1961

Fig. 10. POINT BARROW, ALASKA
71.3°N, 156.8°W JULY 1961

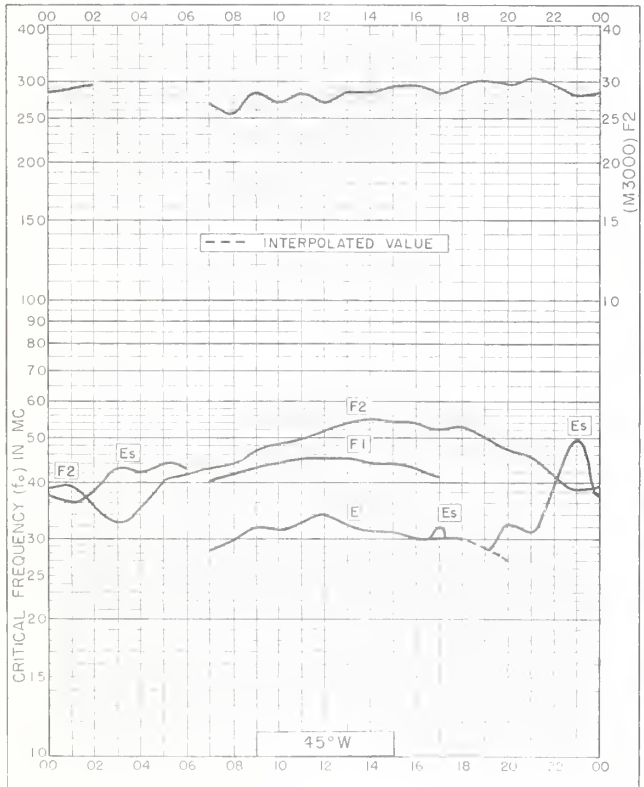

Fig. 11. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4°W JULY 1961

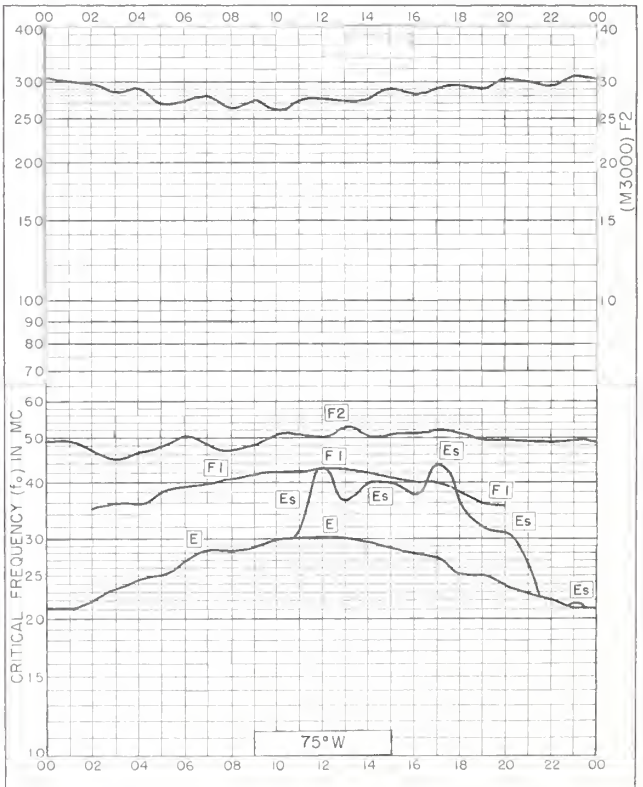

Fig. 12. THULE, GREENLAND
76.0°N, 68.0°W JUNE 1961

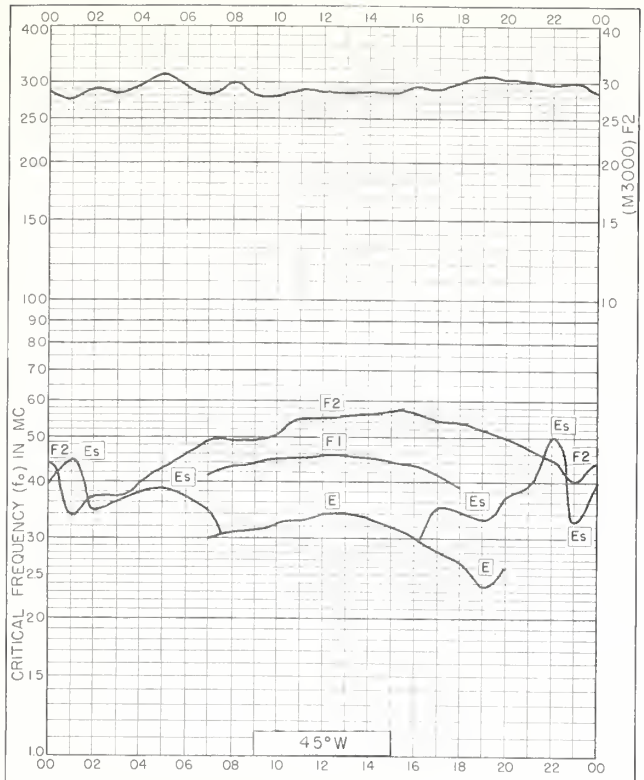

Fig. 13. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4°W JUNE 1961

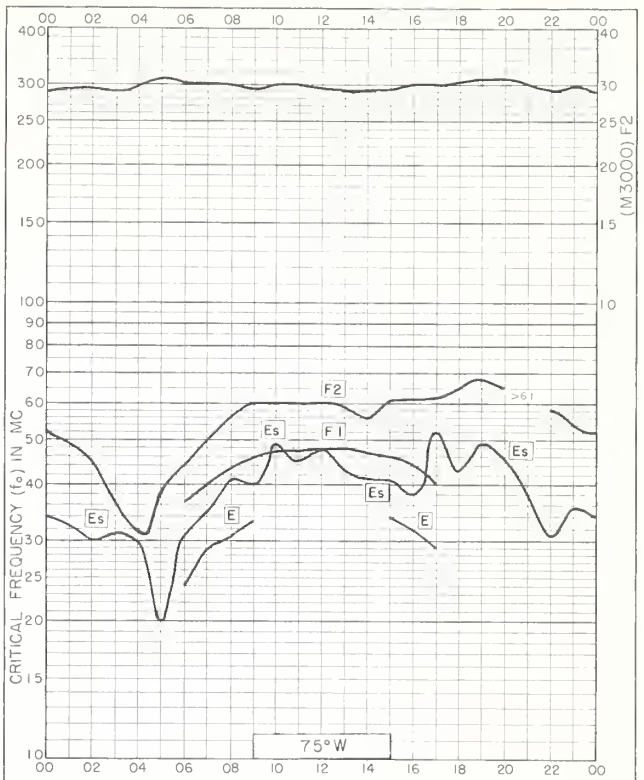

Fig. 14. FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1°W JUNE 1961

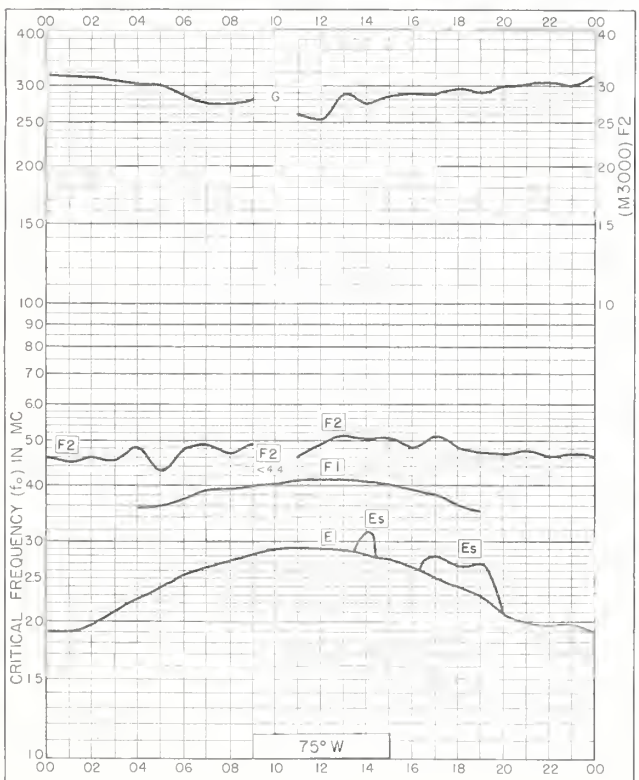

Fig. 15. THULE, GREENLAND
76.0°N, 68.0°W MAY 1961

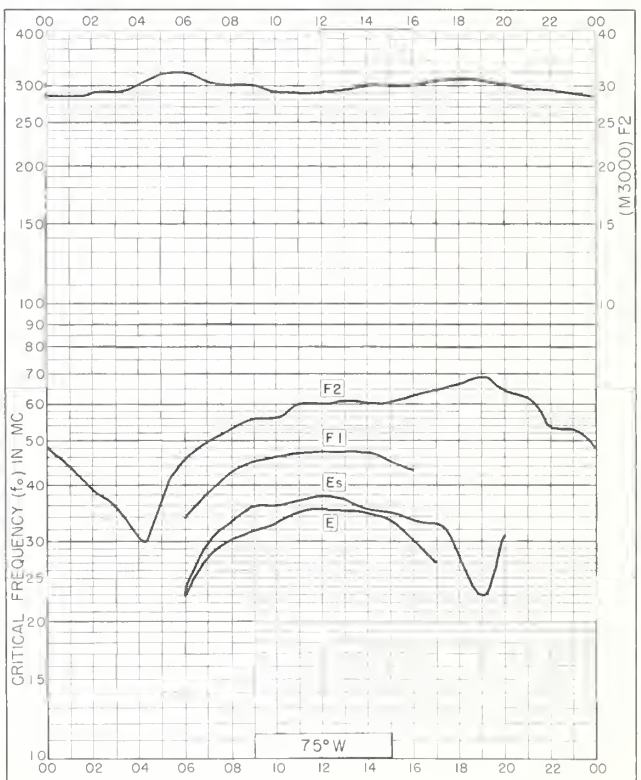

Fig. 16. FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1°W MAY 1961

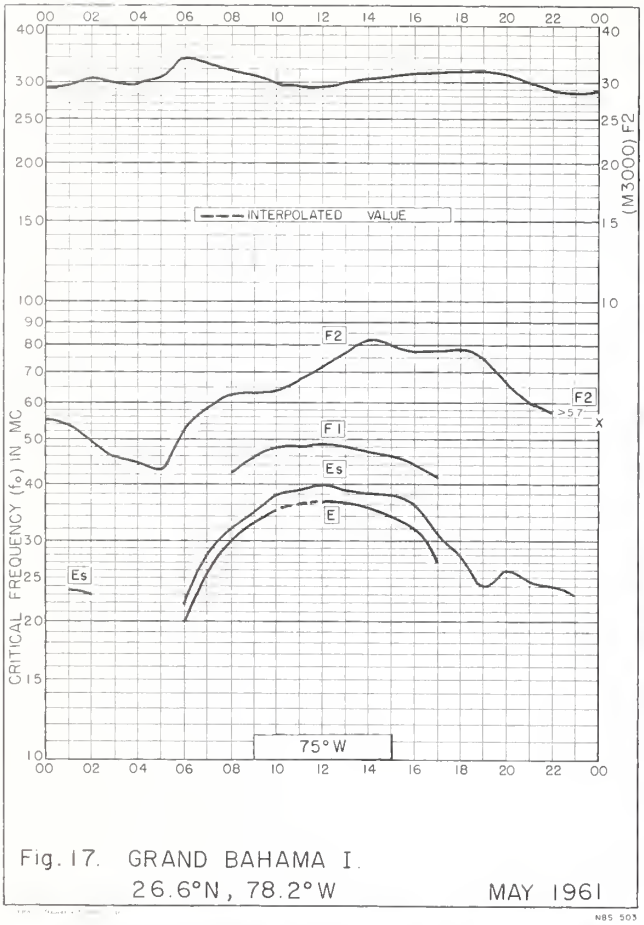

Fig. 17. GRAND BAHAMA I.
26.6°N, 78.2°W MAY 1961

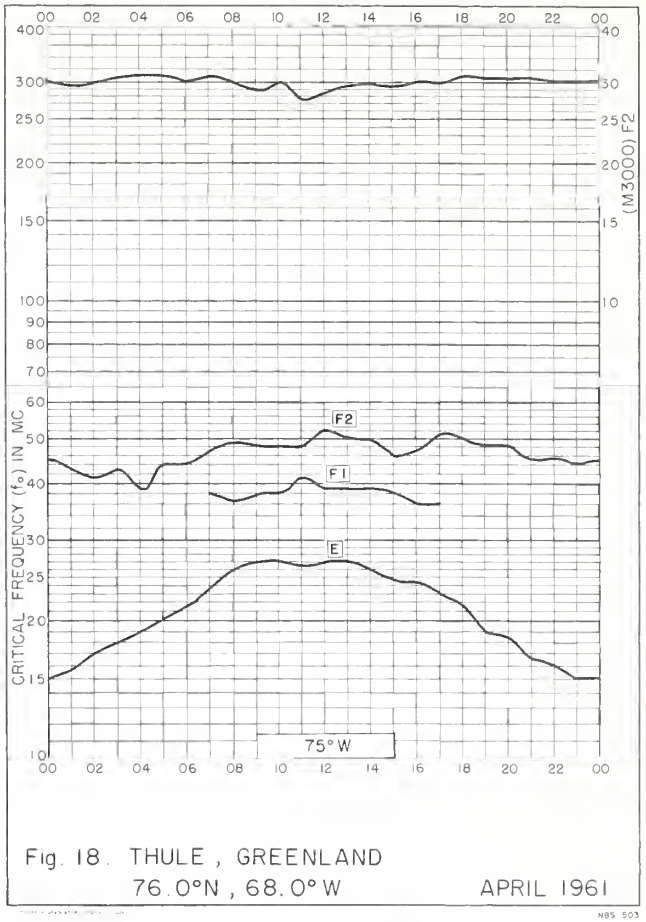

Fig. 18. THULE, GREENLAND
76.0°N, 68.0° W APRIL 1961

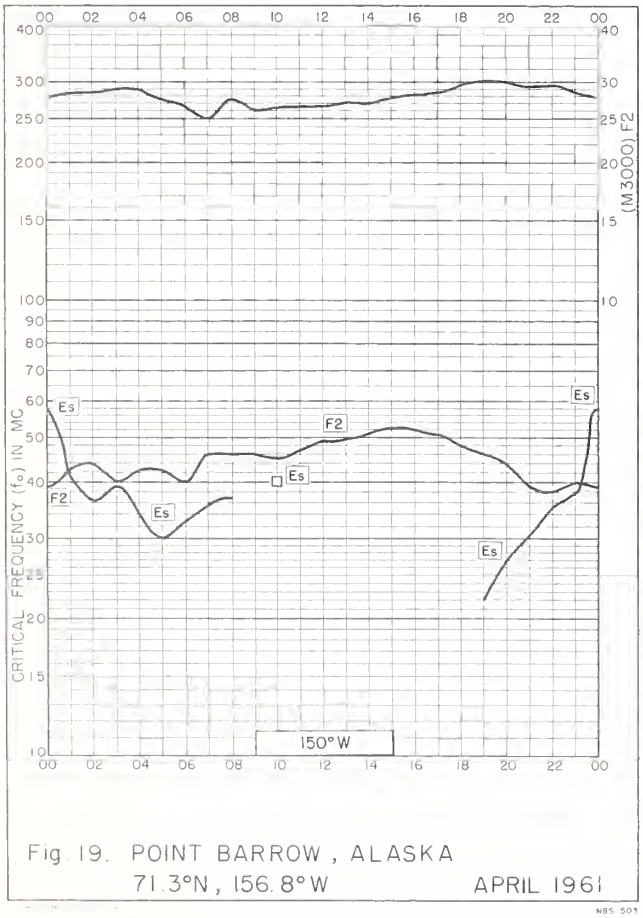

Fig. 19. POINT BARROW, ALALSKA
71.3°N, 156.8°W APRIL 1961

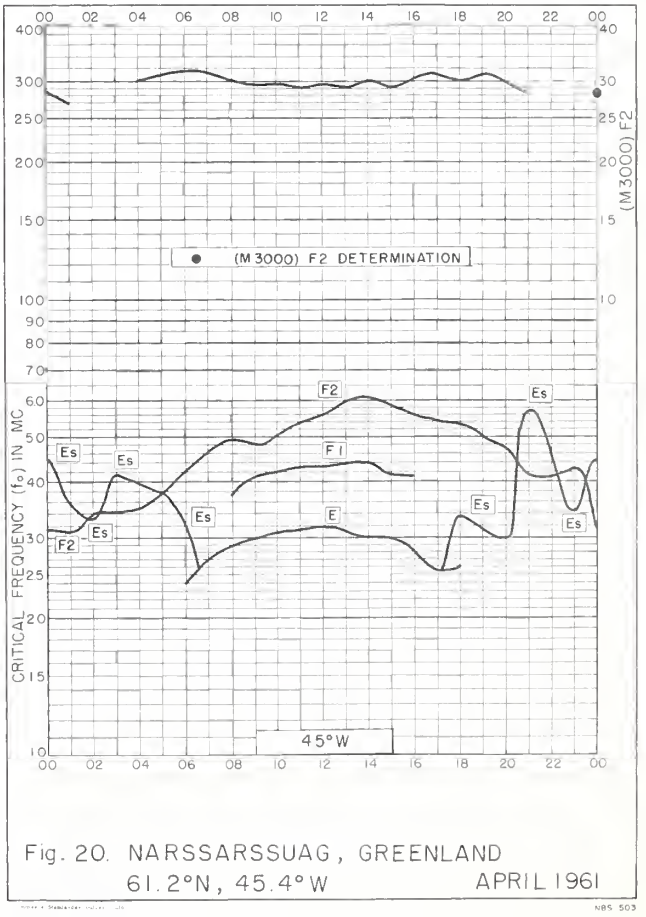

Fig. 20. NARSSARSSUAG, GREENLAND
61.2°N, 45.4°W APRIL 1961

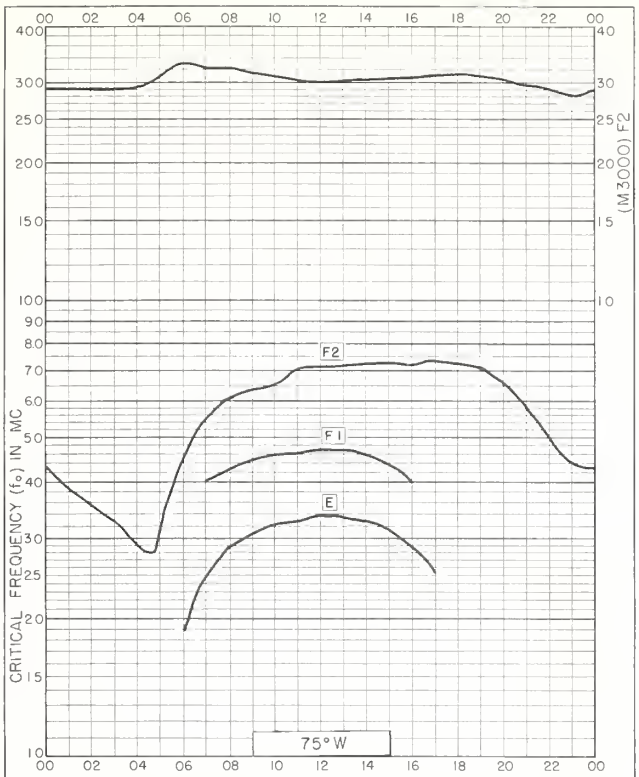

Fig. 21. FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1°W APRIL 1961

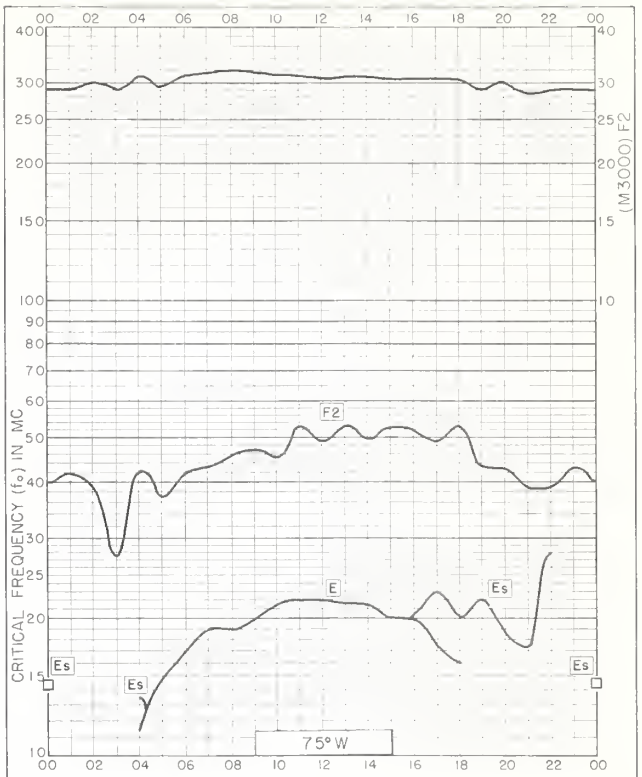

Fig. 22. THULE, GREENLAND
76.0°N, 68.0°W MARCH 1961

Fig. 23. POINT BARROW, ALASKA
71.3°N, 156.8°W MARCH 1961

Fig. 24. THULE, GREENLAND
76.0°N, 68.0°W FEBRUARY 1961

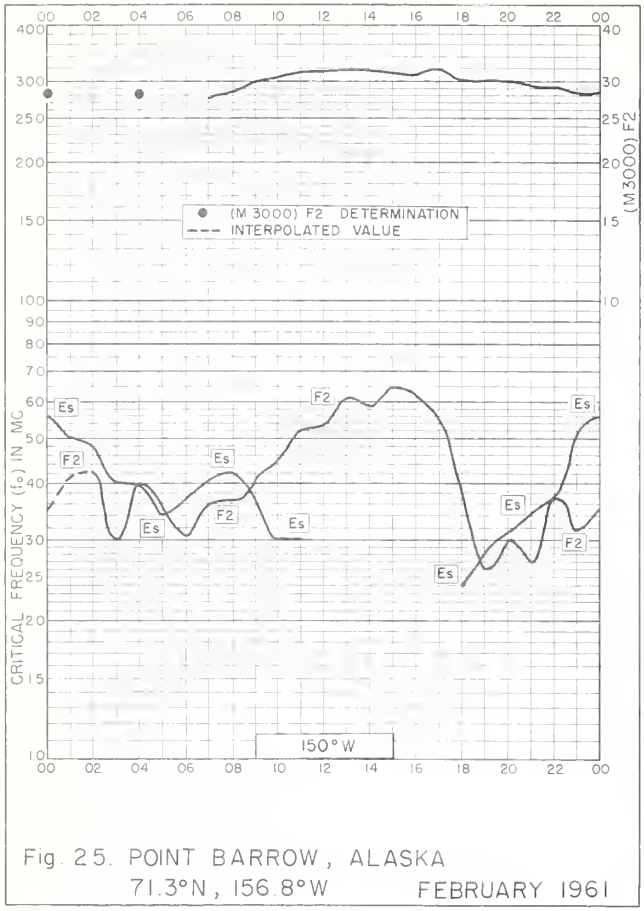

Fig. 25. POINT BARROW, ALASKA
71.3°N, 156.8°W FEBRUARY 1961

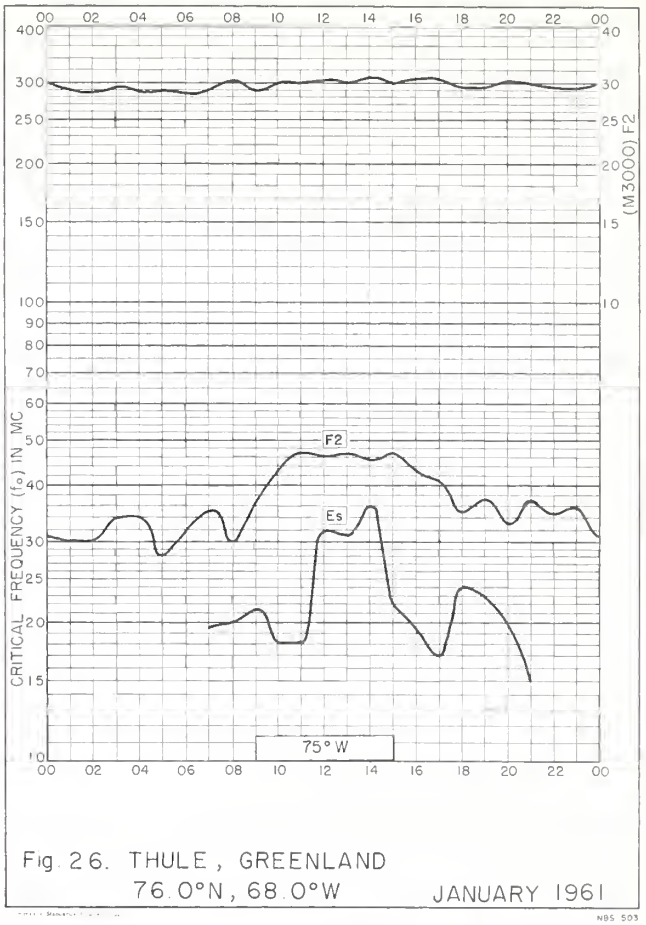

Fig. 26. THULE, GREENLAND
76.0°N, 68.0°W JANUARY 1961

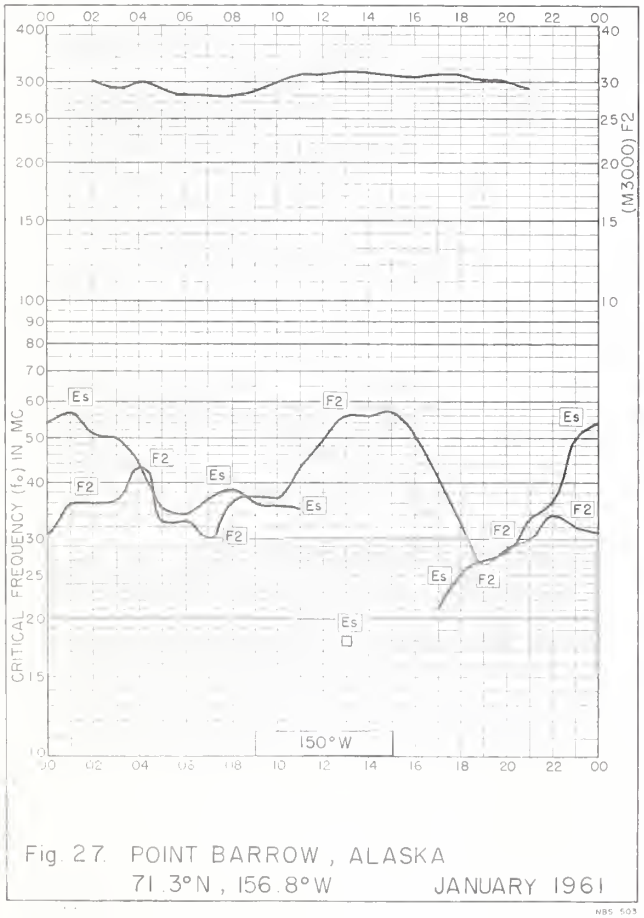

Fig. 27. POINT BARROW, ALASKA
71.3°N, 156.8°W JANUARY 1961

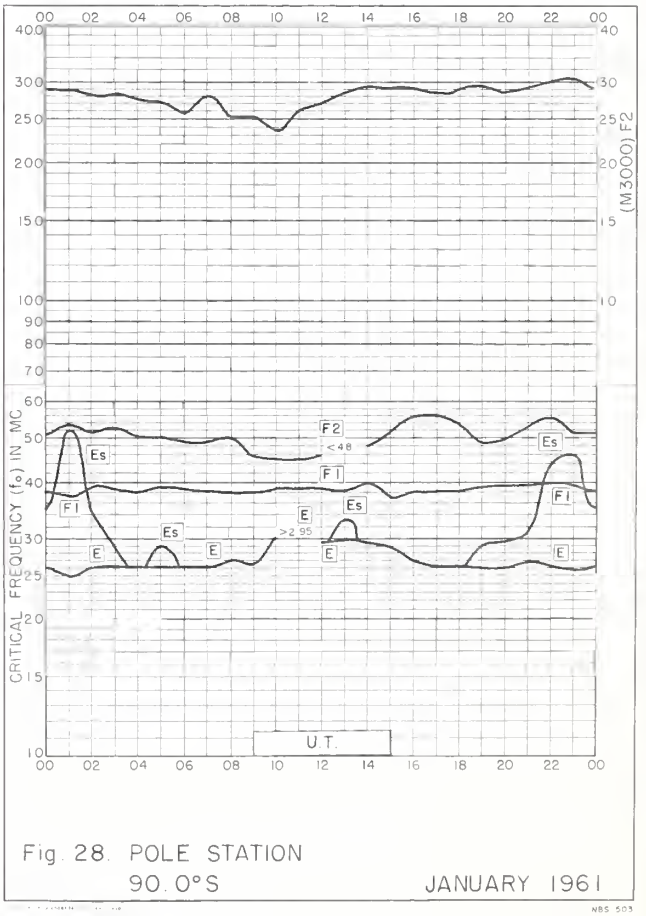

Fig. 28. POLE STATION
90.0°S JANUARY 1961

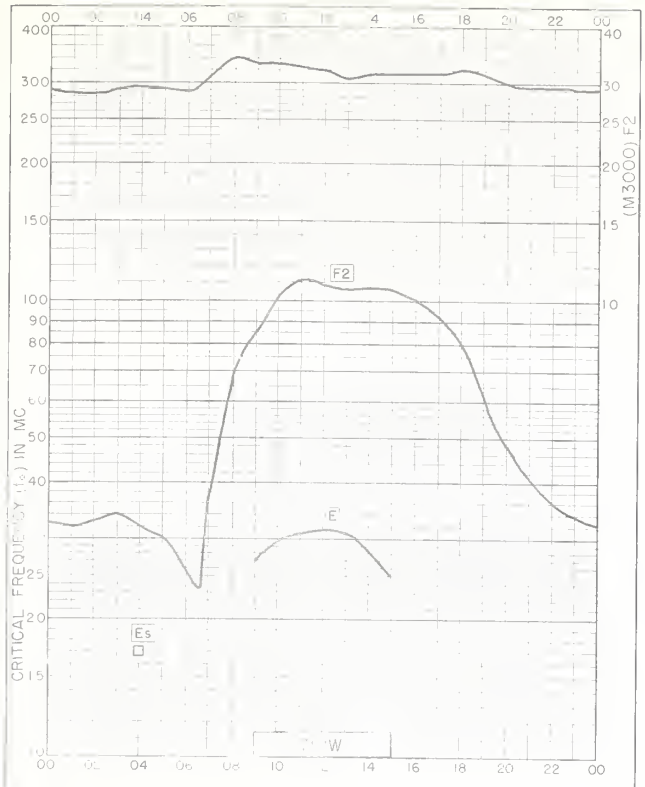

Fig. 29. FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1°W DECEMBER 1960

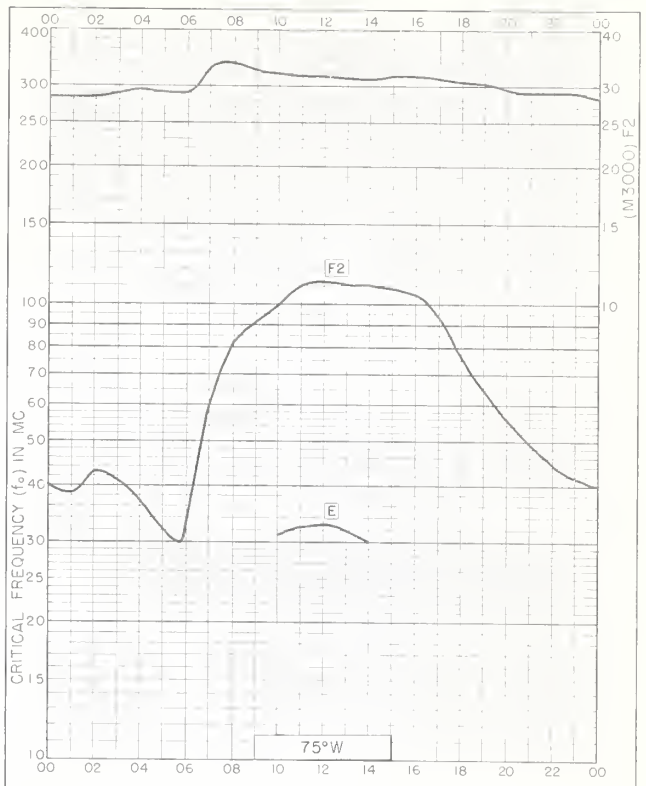

Fig. 30. FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1°W NOVEMBER 1960

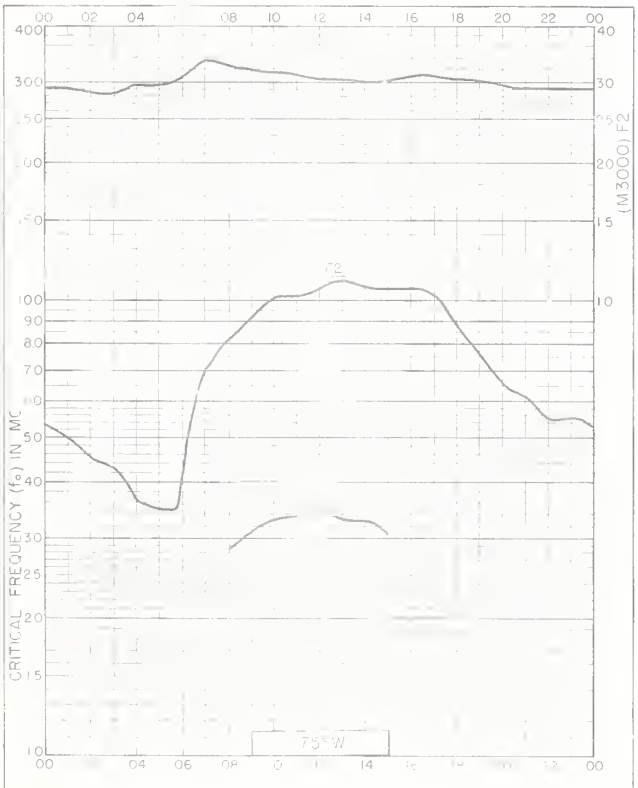

Fig. 31. FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1°W OCTOBER 1960

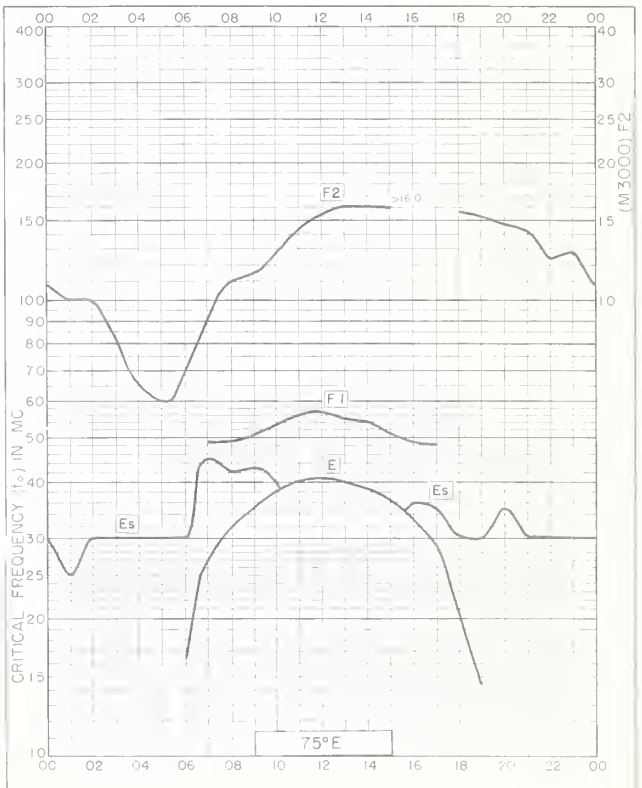

Fig. 32. AHMEDABAD, INDIA
23.0°N, 72.6°E APRIL 1960

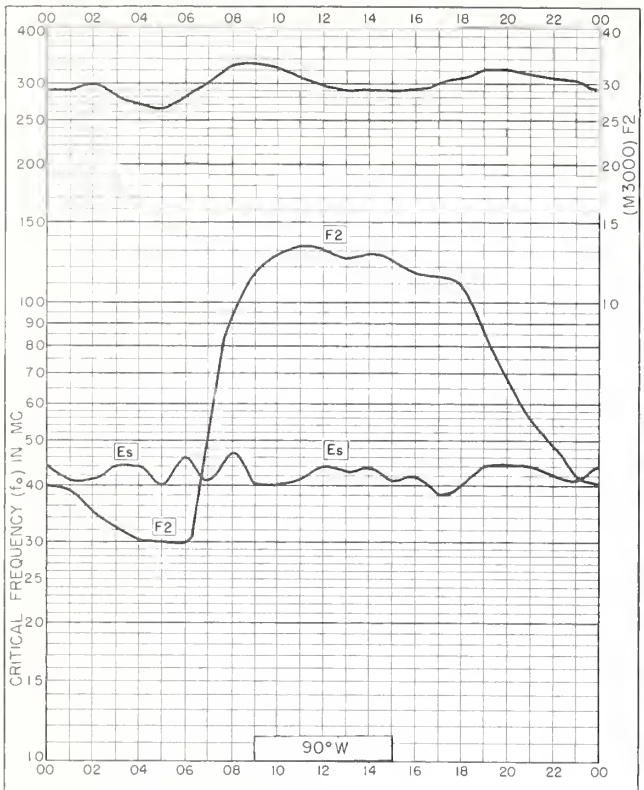

Fig. 33. EL CERILLO, MEXICO
19.3°N, 99.5°W DECEMBER 1959

NBS 503

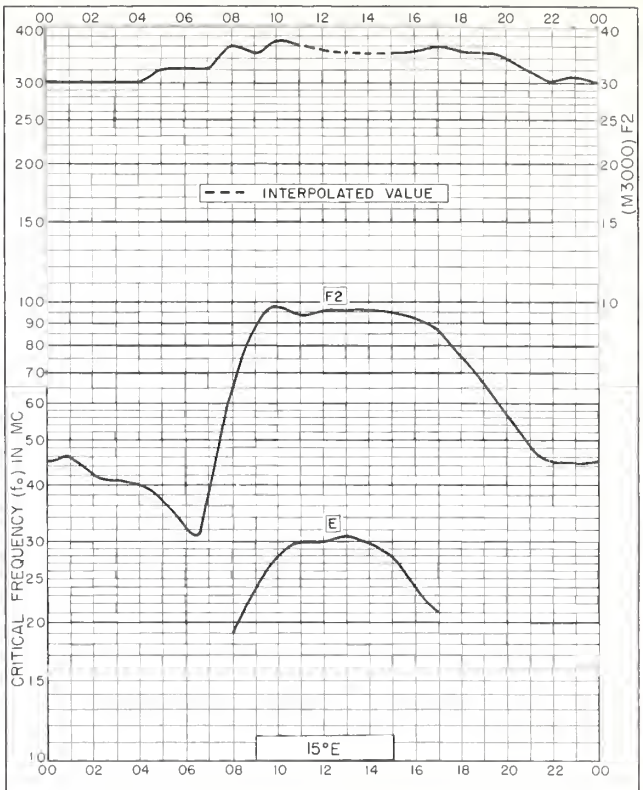

Fig. 34. SOTTENS, SWITZERLAND
46.6°N, 6.7°E NOVEMBER 1959

NBS 503

Fig. 35. SOTTENS, SWITZERLAND
46.6°N, 6.7°E OCTOBER 1959

NBS 503

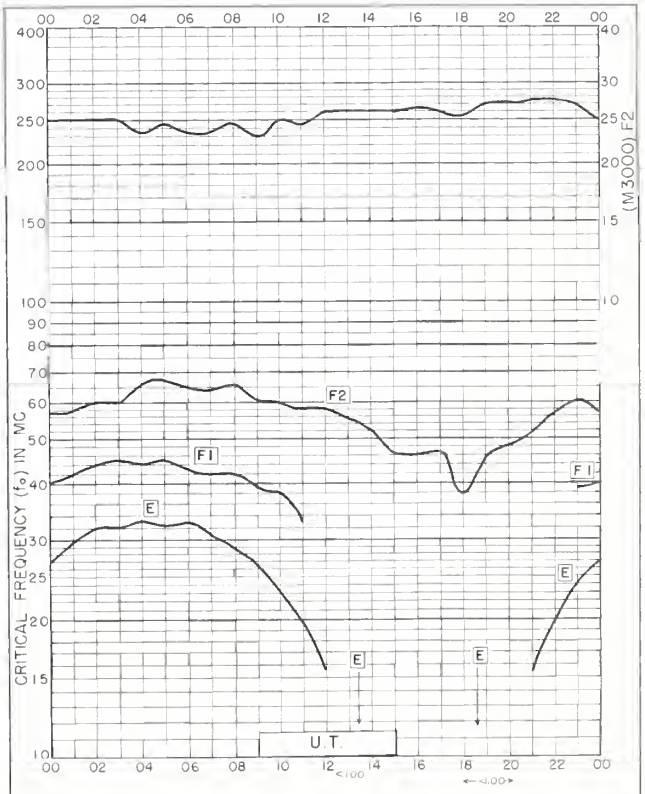

Fig. 36. WILKES STATION
66.3°S, 110.5°E OCTOBER 1959

NBS 503

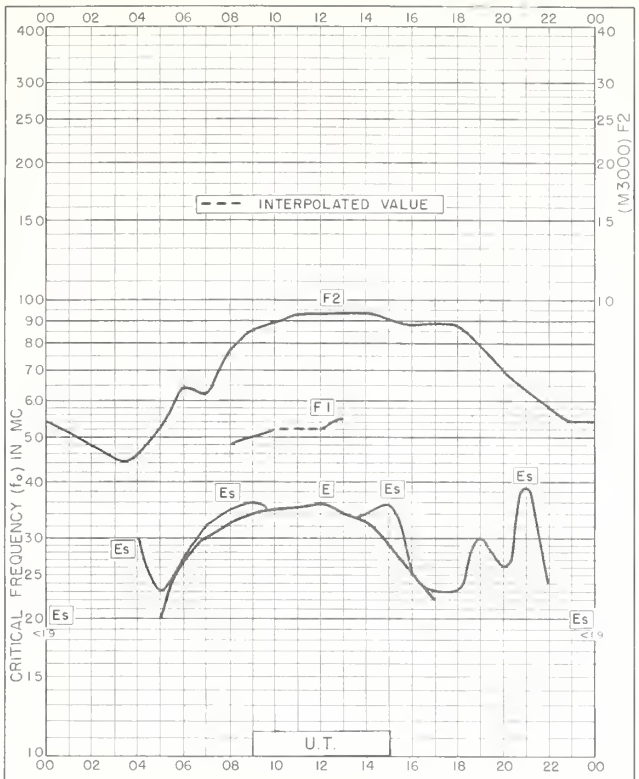

Fig. 37. PRUHONICE, CZECHOSLOVAKIA
50.0°N, 14.6°E SEPTEMBER 1959

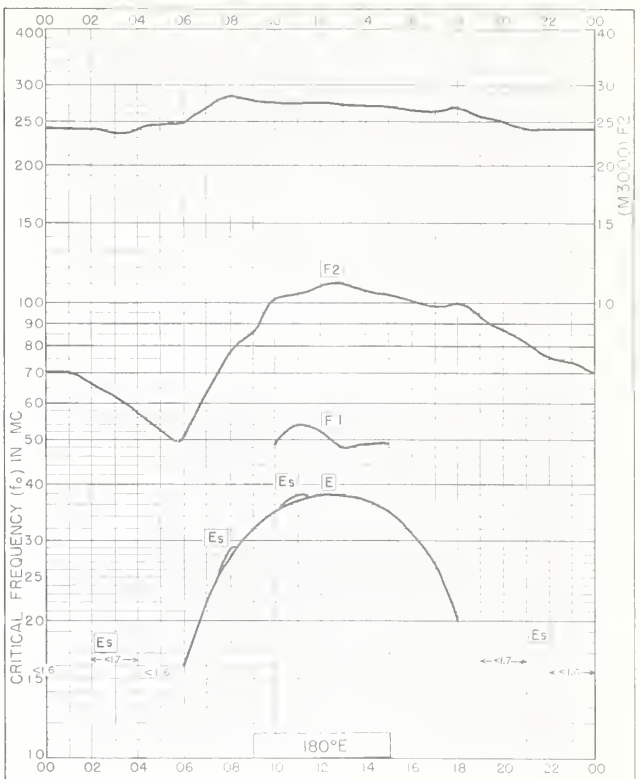

Fig. 38. CHRISTCHURCH, NEW ZEALAND
43.6°S, 172.8°E SEPTEMBER 1959

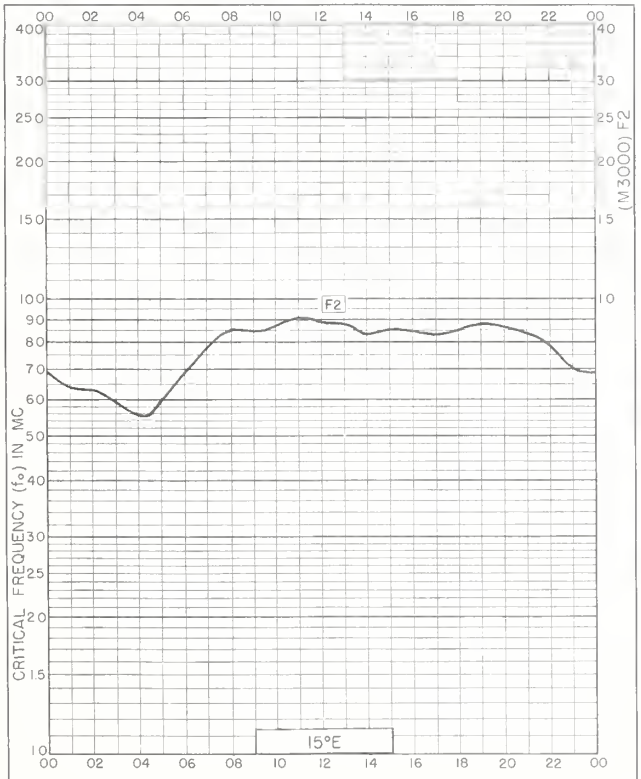

Fig. 39. GRAZ, AUSTRIA
47.1°N, 15.5°E AUGUST 1959

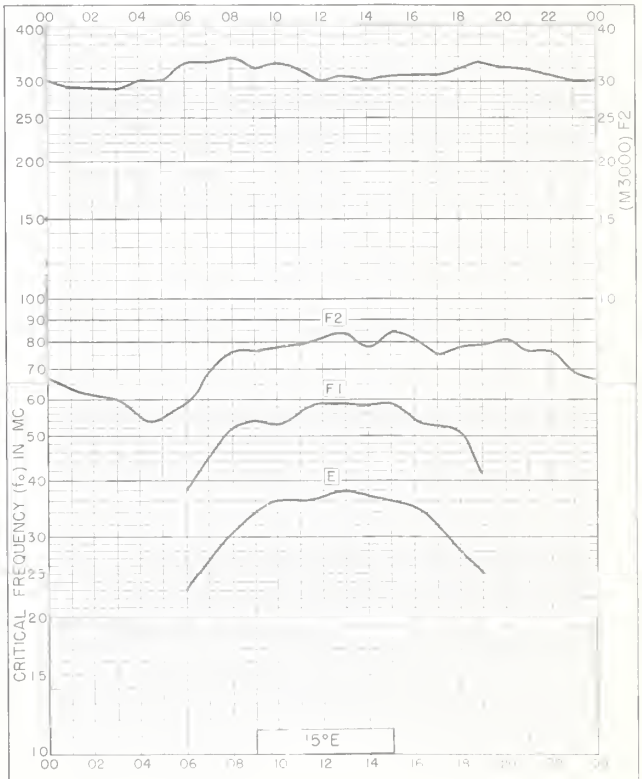

Fig. 40. SOTTENS, SWITZERLAND
46.6°N, 6.7°E AUGUST 1959

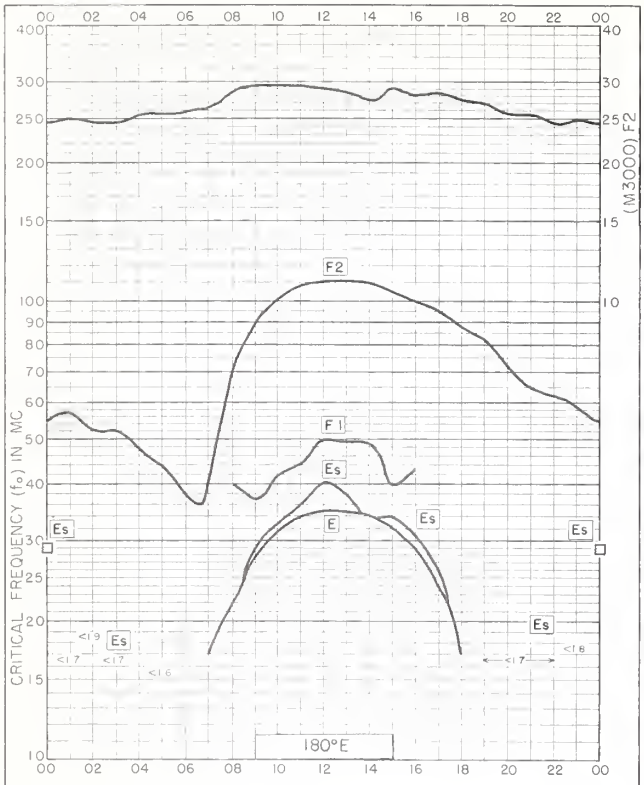

Fig. 41. CHRISTCHURCH, NEW ZEALAND
43.6°S, 172.8°E AUGUST 1959

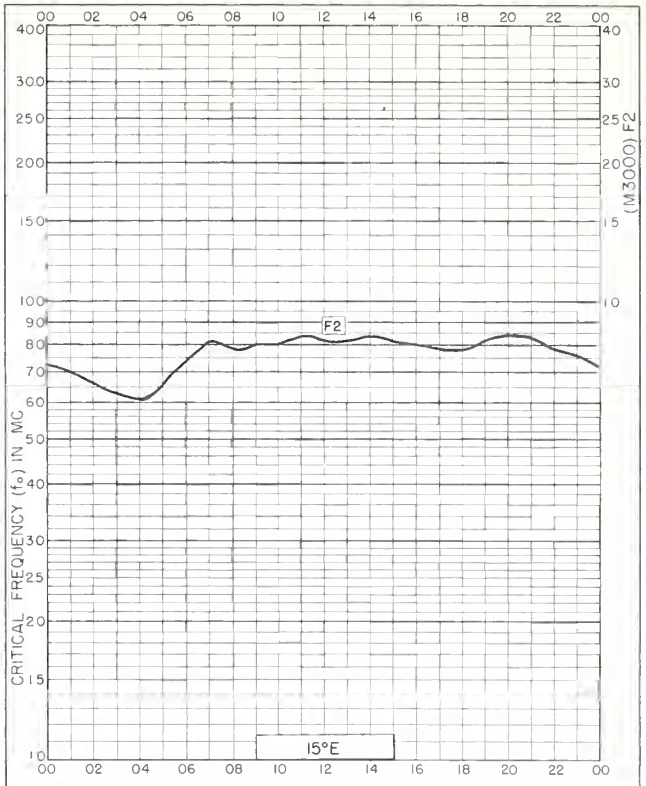

Fig. 42. GRAZ, AUSTRIA
47.1°N, 15.5°E JULY 1959

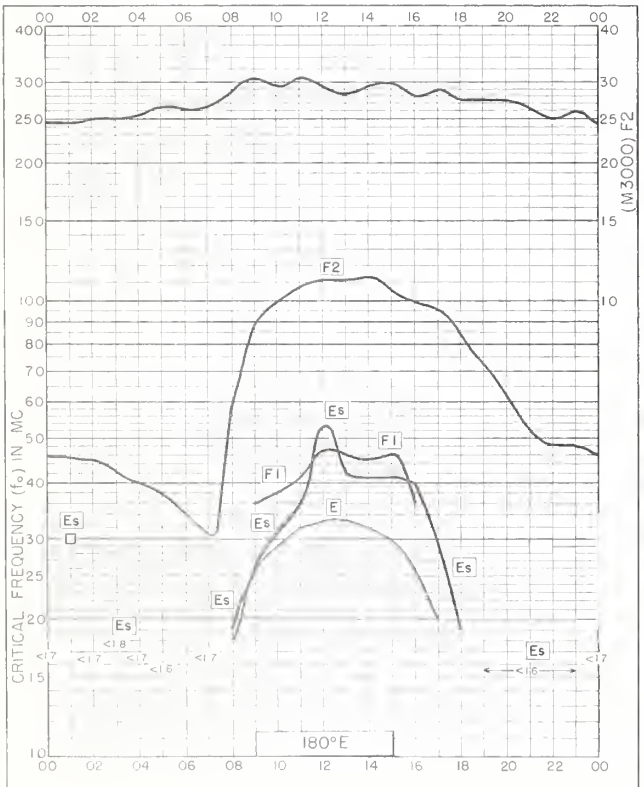

Fig. 43. CHRISTCHURCH, NEW ZEALAND
43.6°S, 172.8°E JULY 1959

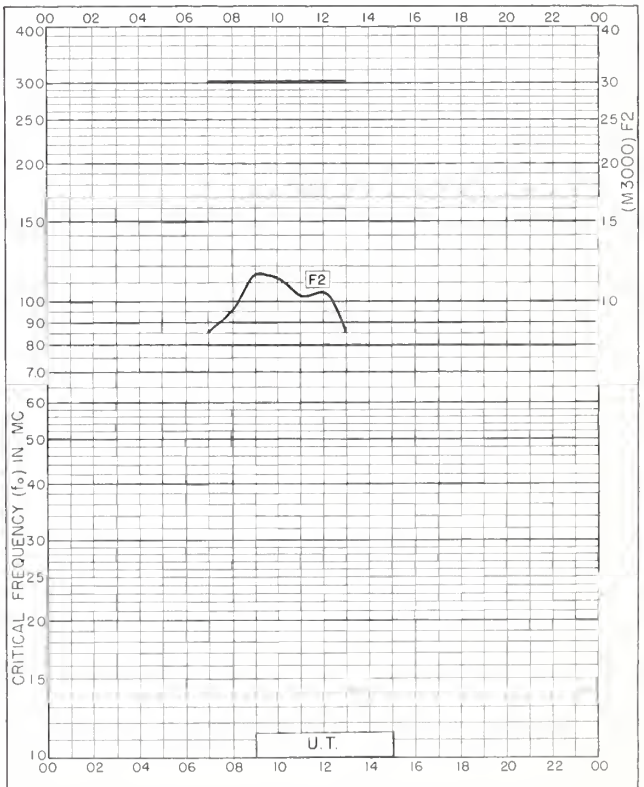

Fig. 44. MAWSON
67.6°S, 62.9°E JULY 1959

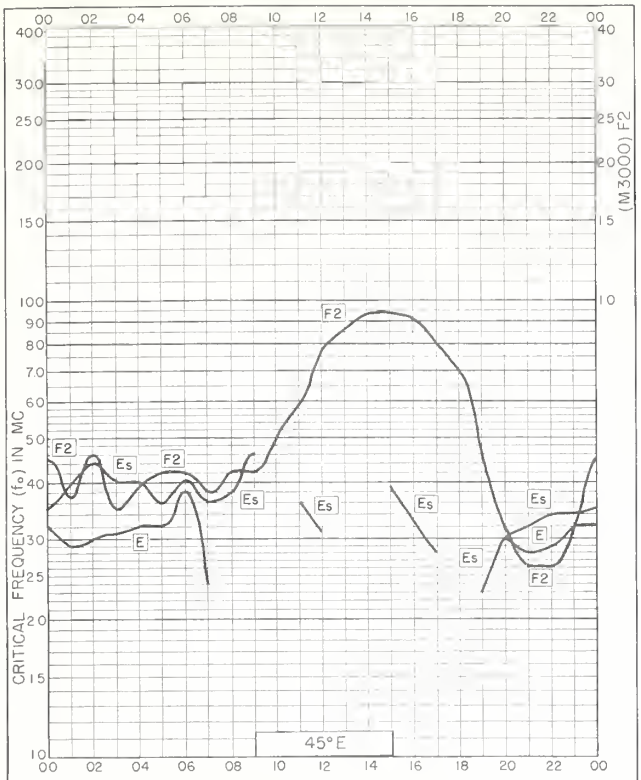

Fig. 45. SYOWA BASE
69.0°, 39.6°E JULY 1959

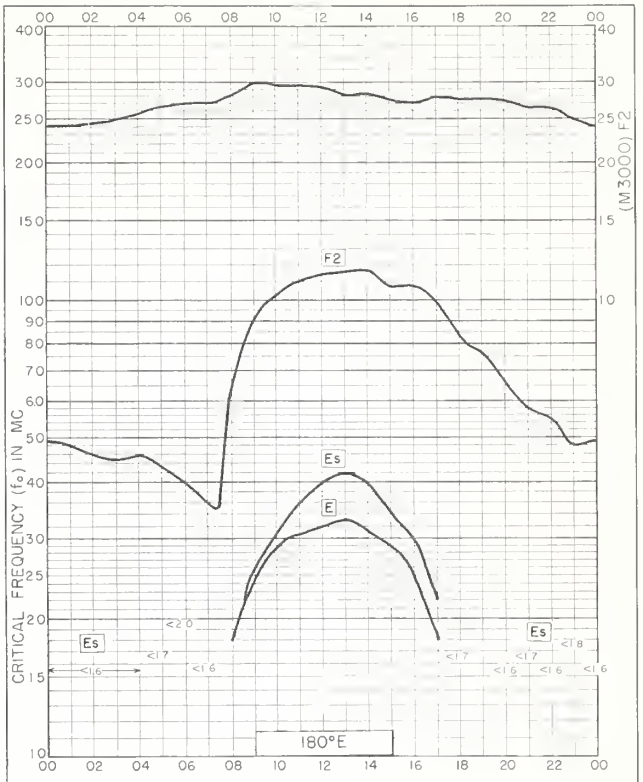

Fig. 46. CHRISTCHURCH, NEW ZEALAND
43.6°S, 172.8°E JUNE 1959

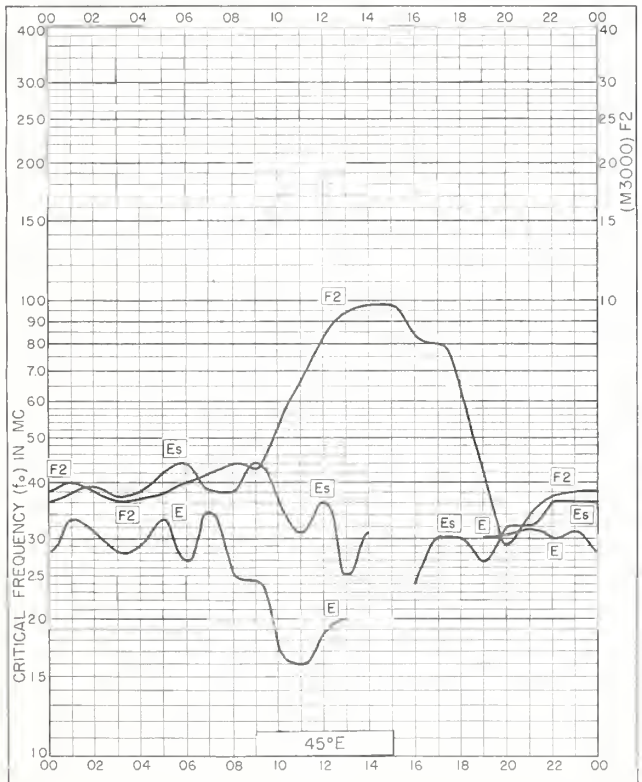

Fig. 47. SYOWA BASE
69.0°S, 39.6°E JUNE 1959

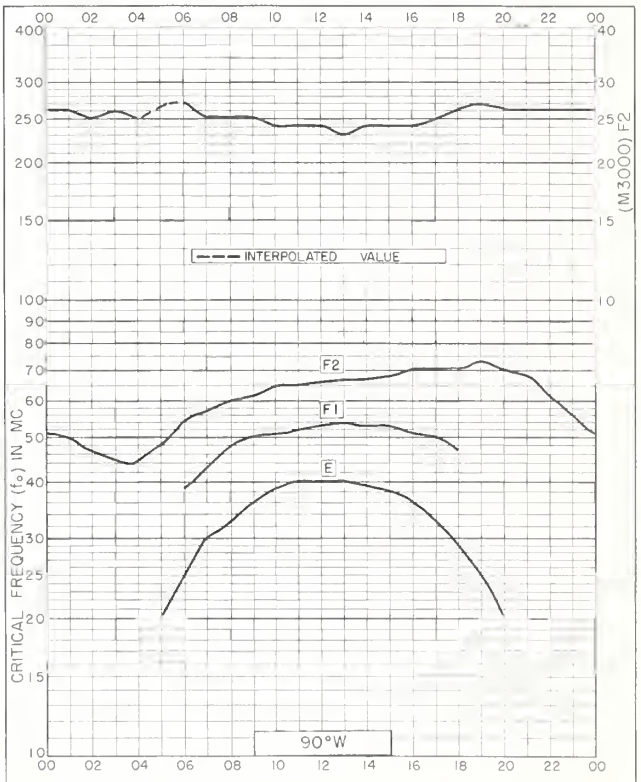

Fig. 48. WINNIPEG, CANADA
49.9°N, 97.4°W MAY 1959

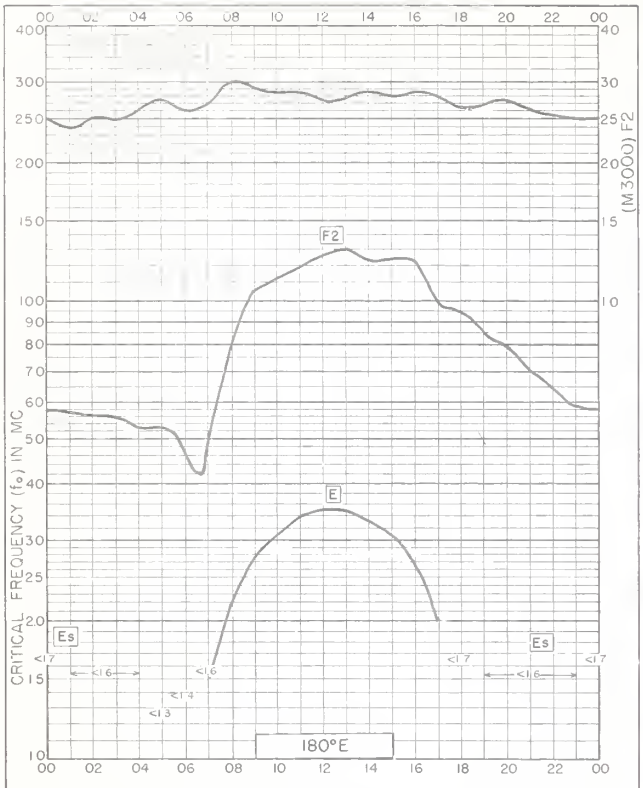

Fig. 49. CHRISTCHURCH, NEW ZEALAND
43.6°S, 172.8°E MAY 1959

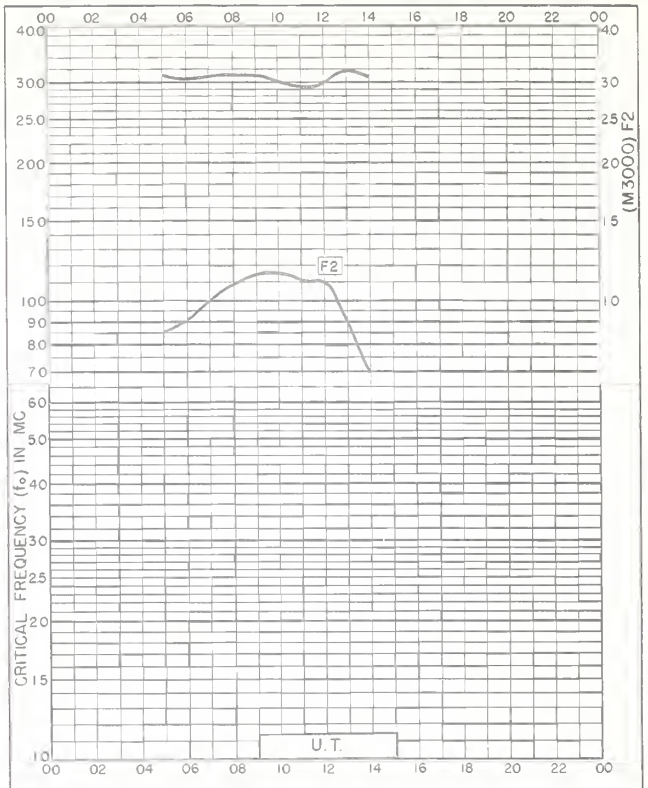

Fig. 50. MAWSON
67.6°S, 62.9°E MAY 1959

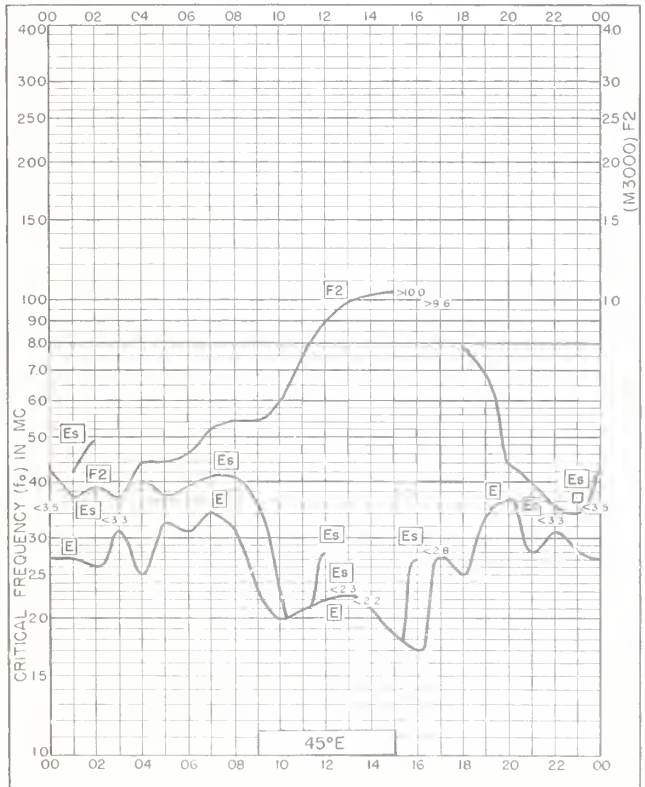

Fig. 51. SYOWA BASE
69.0°S, 39.6°E MAY 1959

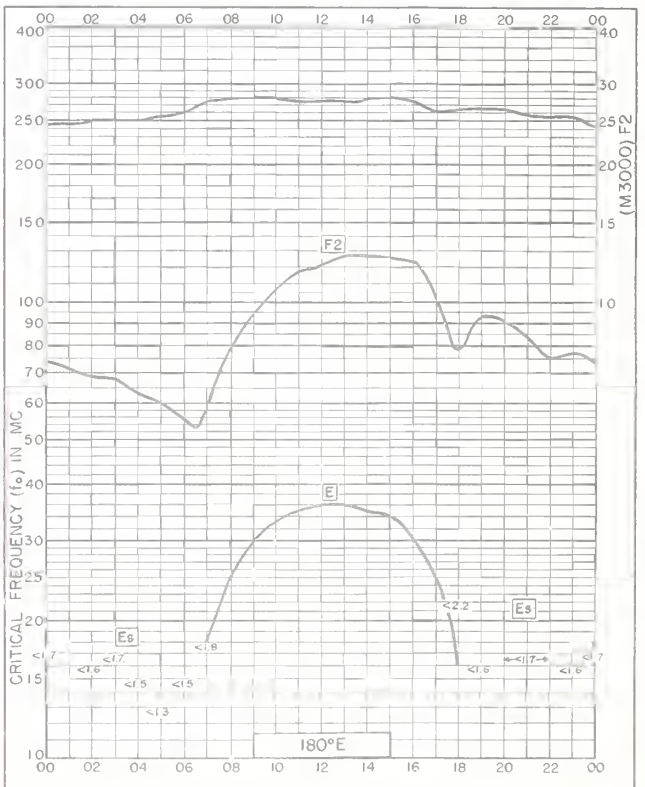

Fig. 52. CHRISTCHURCH, NEW ZEALAND
43.6°S, 172.8°E APRIL 1959

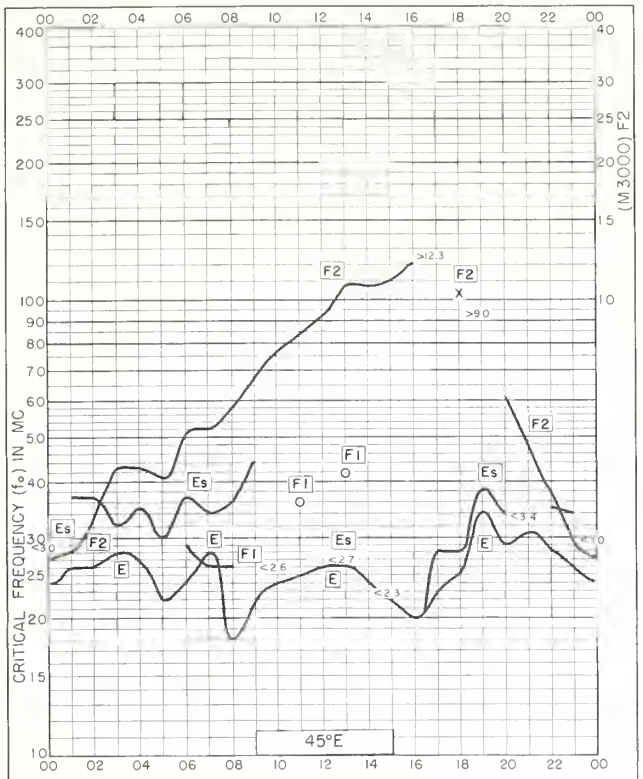

Fig. 53. SYOWA BASE
69.0°S, 39.6°E APRIL 1959

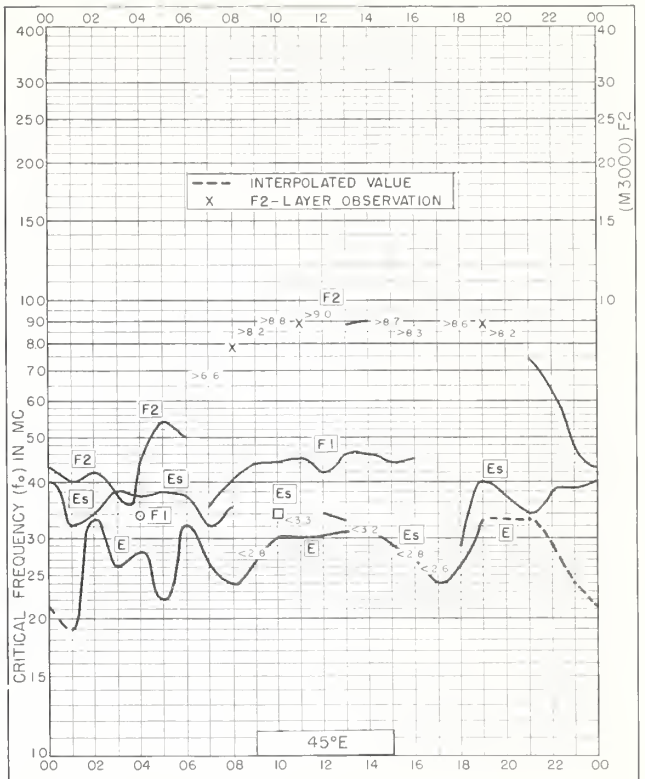

Fig. 54. SYOWA BASE
69.0°S, 39.6°E MARCH 1959

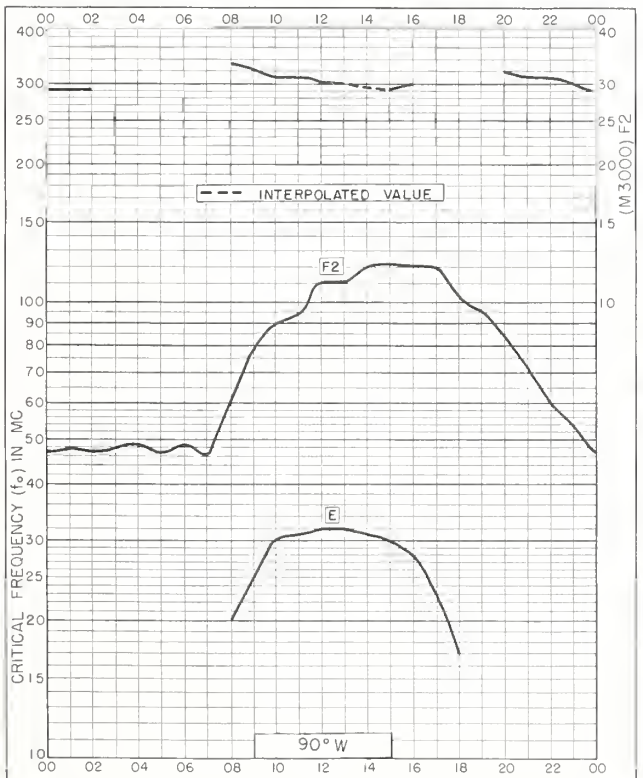

Fig. 55. WINNIPEG, CANADA
49.9°N, 97.4°W FEBRUARY 1959

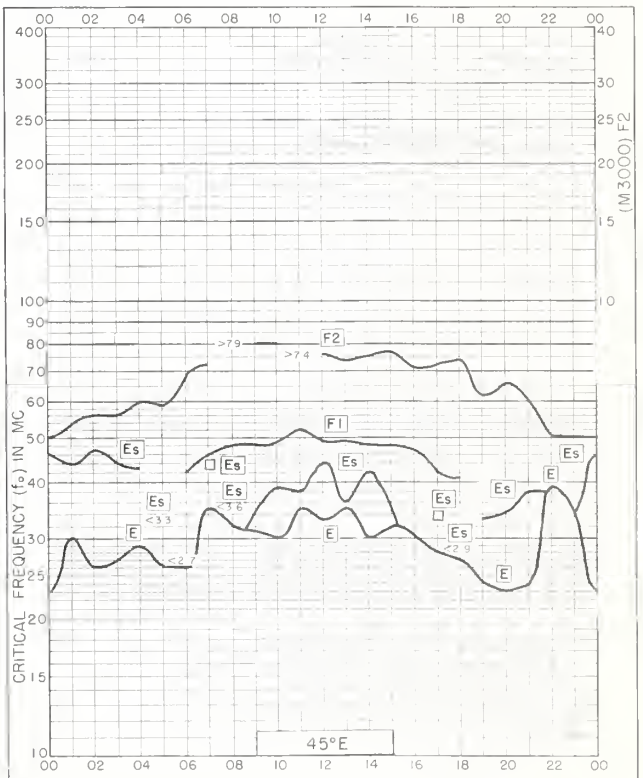

Fig. 56. SYOWA BASE
69.0°S, 39.6°E FEBRUARY 1959

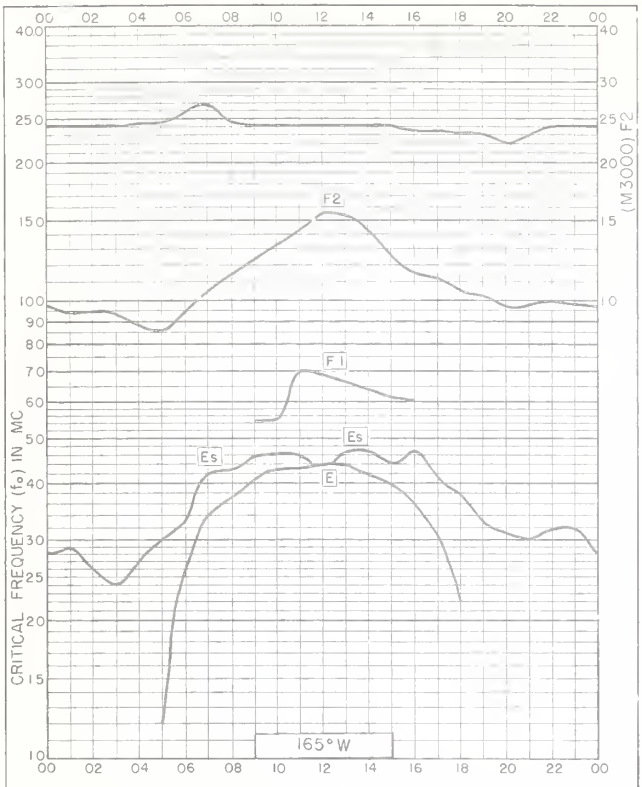

Fig. 57. RAROTONGA I.
21.2°S, 159.8°W JANUARY 1959

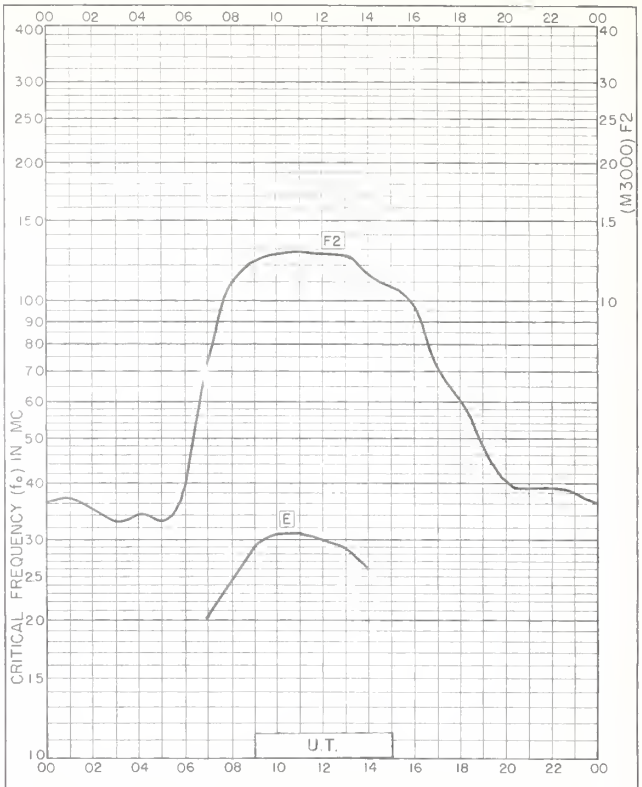

Fig. 58. PRUHONICE, CZECHOSLOVAKIA
50.0°N, 14.6°E DECEMBER 1958

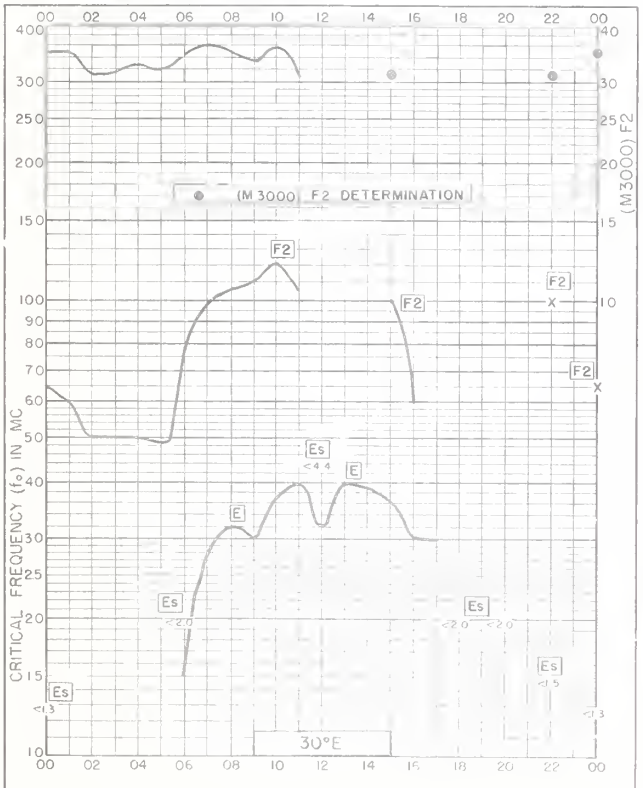

Fig. 59. SALISBURY, SOUTHERN RHODESIA
17.8°S, 31.0°E SEPTEMBER 1958

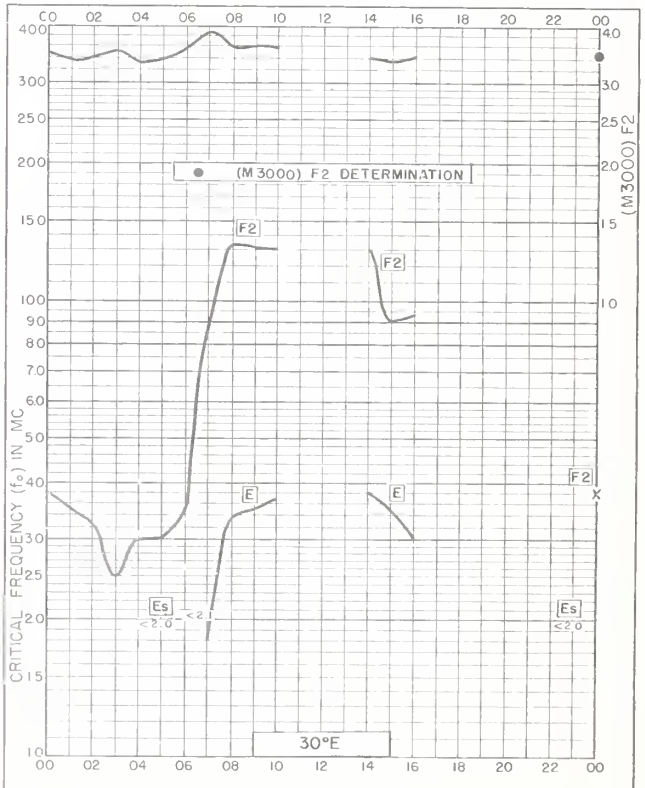

Fig. 60. SALISBURY, SOUTHERN RODESIA
17.8°S, 31.0°E JUNE 1958

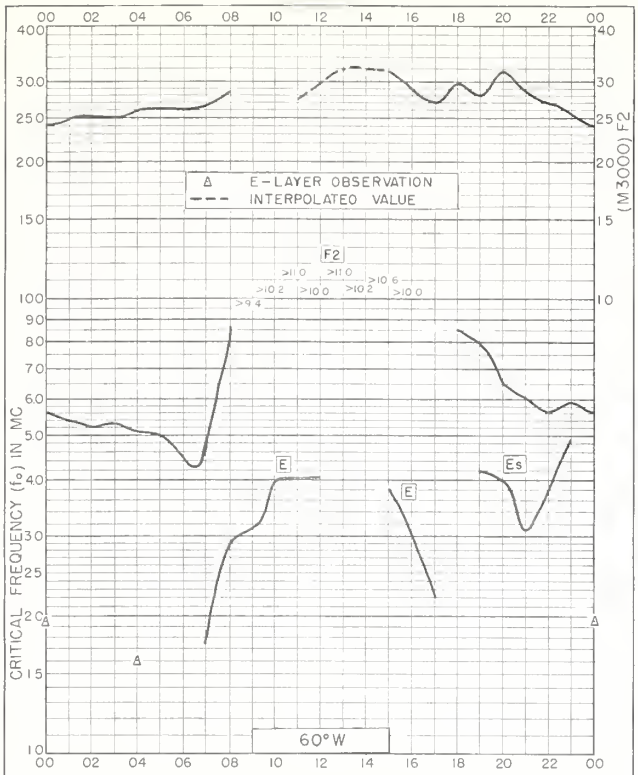

Fig. 61. TRELEW, ARGENTINA
43.2°S, 65.3°W JUNE 1958

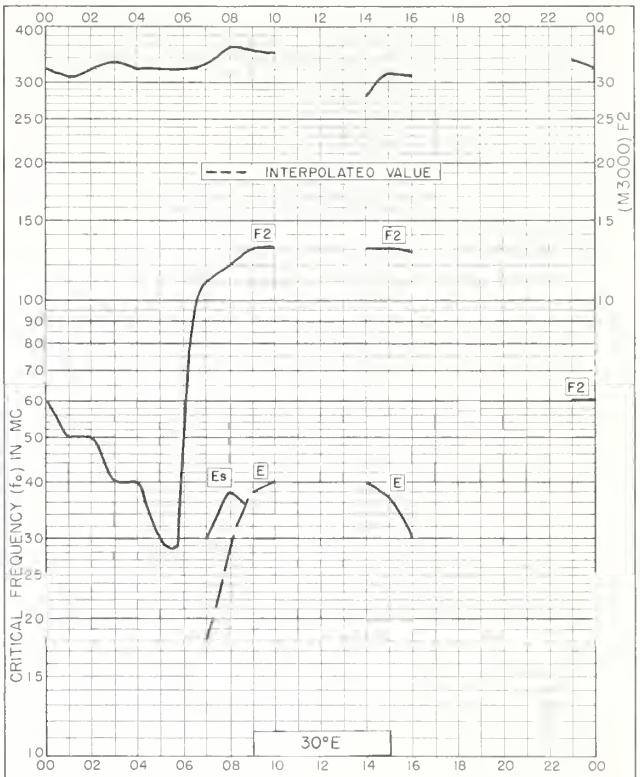

Fig. 62. SALISBURY, SOUTHERN RHODESIA
17.8°S, 31.0°E MAY 1958

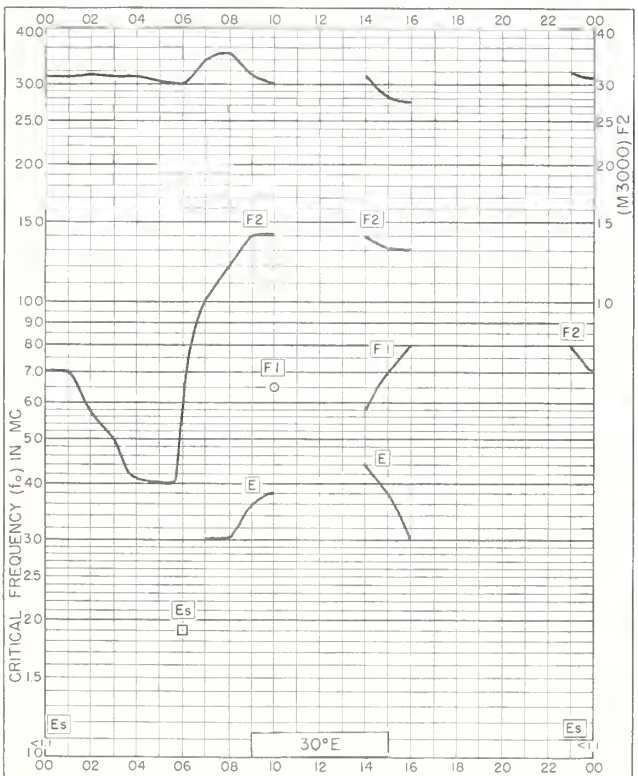

Fig. 63. SALISBURY, SOUTHERN RHODESIA
17.8°S, 31.0°E APRIL 1958

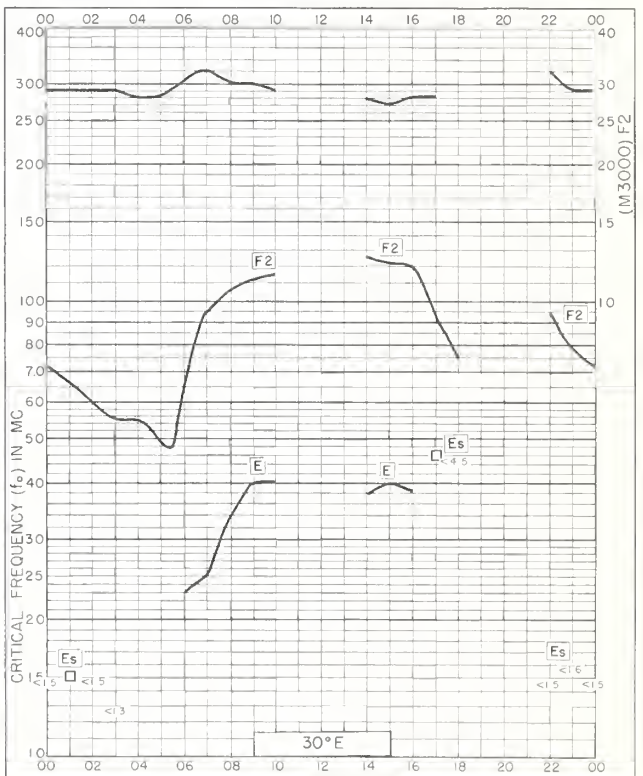

Fig. 64. SALISBURY, SOUTHERN RHODESIA
17.8°S, 31.0°E FEBRUARY 1958

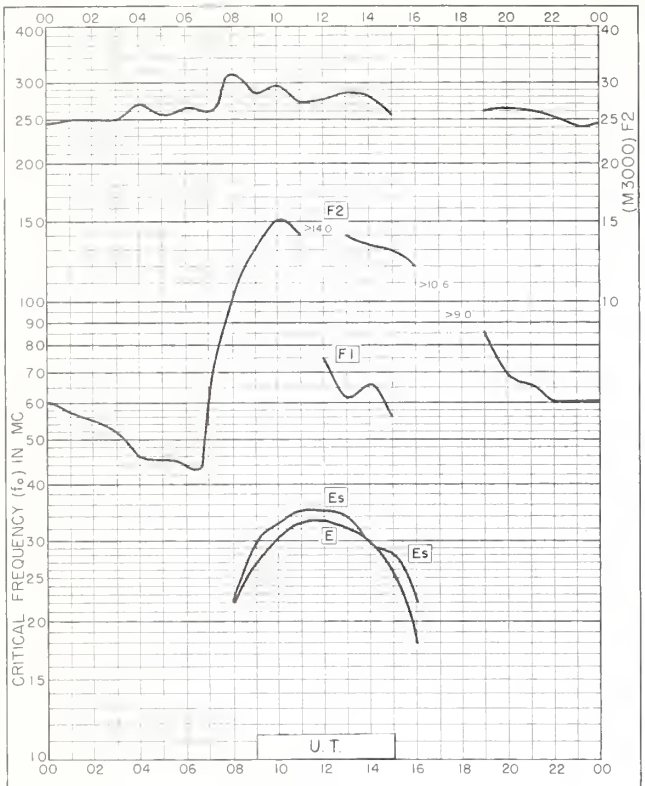

Fig. 65. POITIERS, FRANCE
46.6°N, 0.3°E DECEMBER 1957

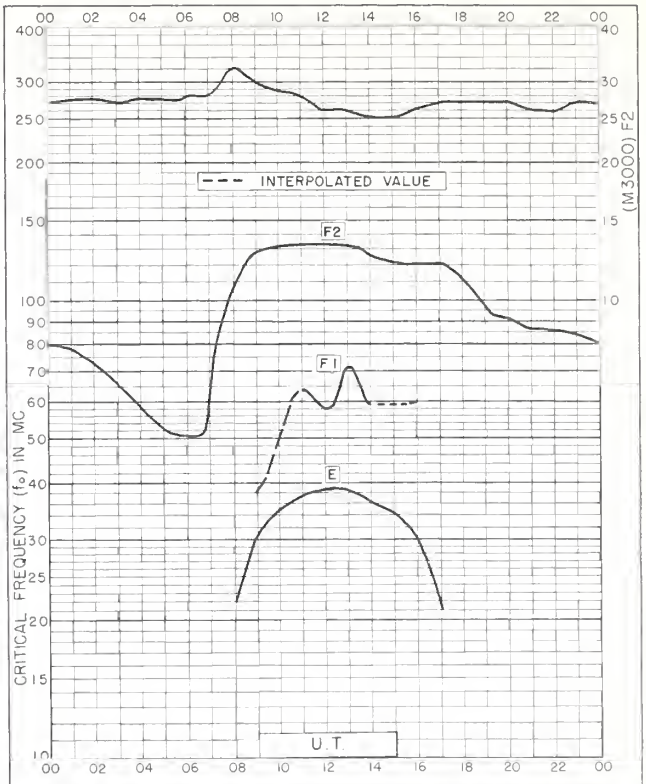

Fig. 66. CASABLANCA, MOROCCO
33.6°N, 7.6°W DECEMBER 1957

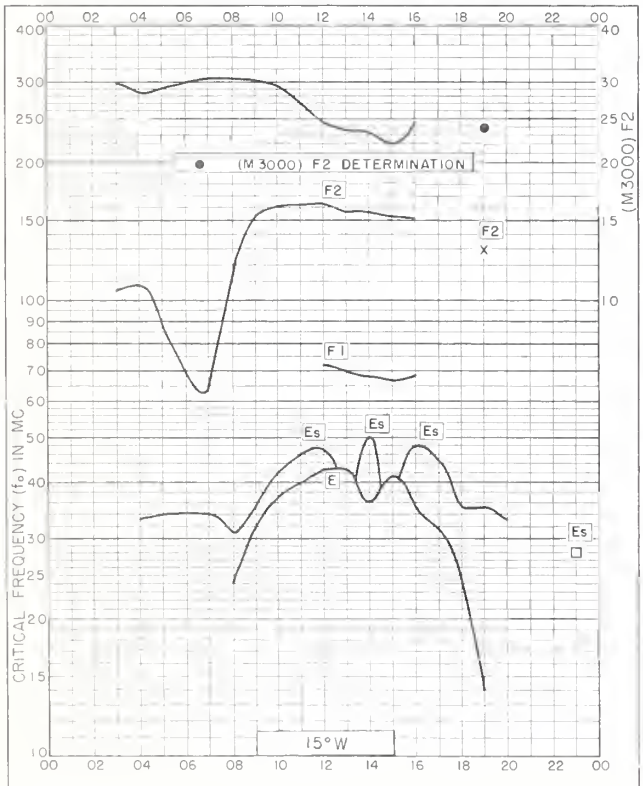

Fig. 67. DAKAR, FRENCH W. AFRICA
14.7°N, 17.4°W DECEMBER 1957

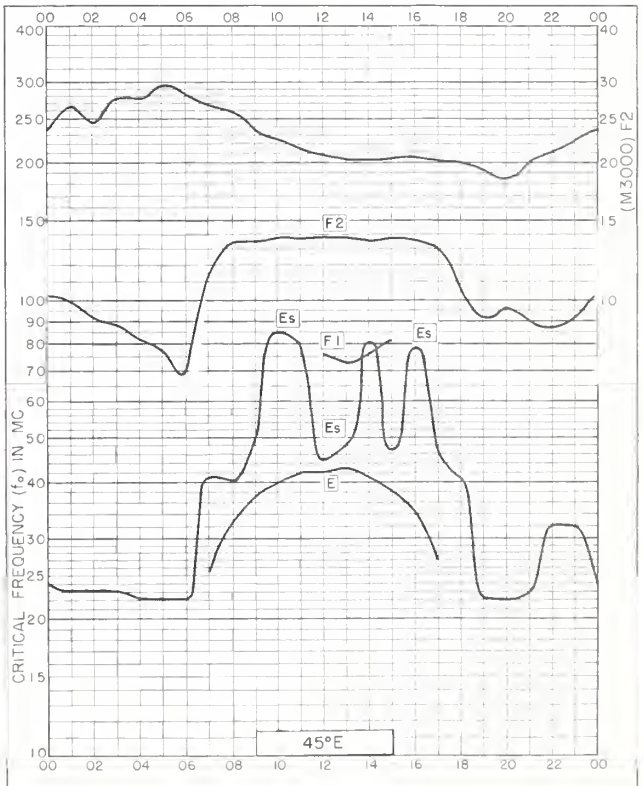

Fig. 68. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E DECEMBER 1957

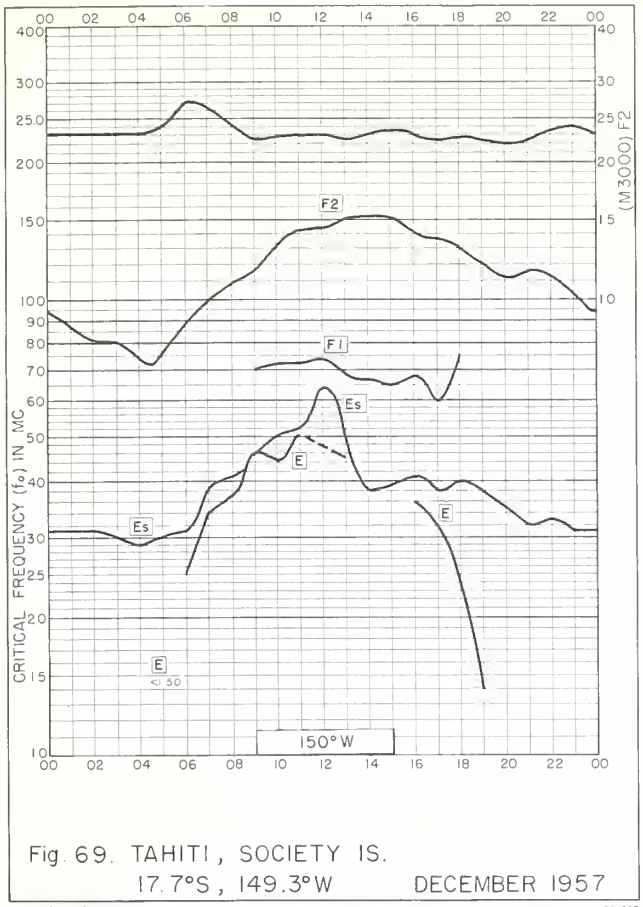

Fig. 69. TAHITI, SOCIETY IS.
17.7°S, 149.3°W DECEMBER 1957

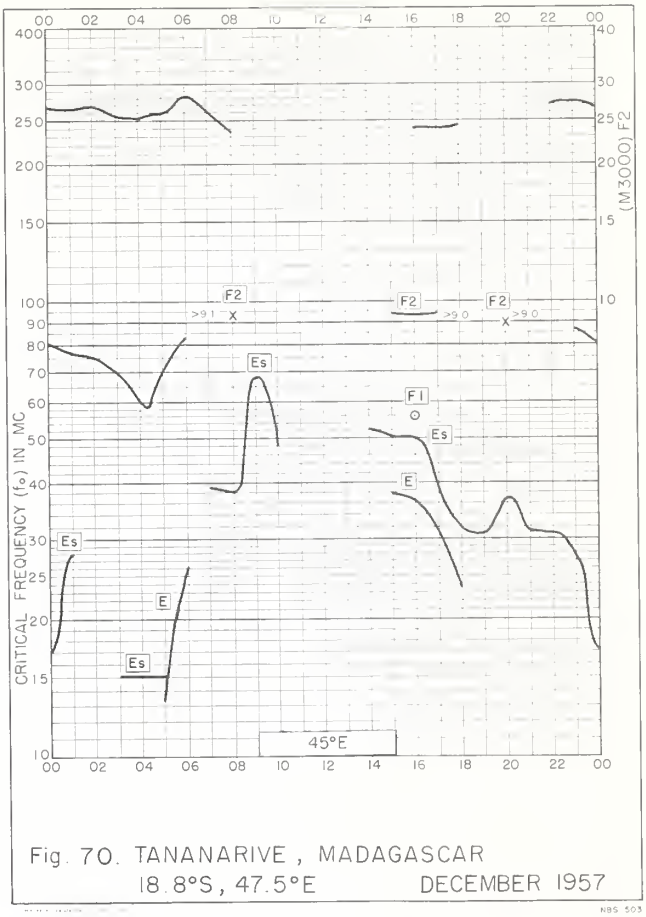

Fig. 70. TANANARIVE, MADAGASCAR
18.8°S, 47.5°E DECEMBER 1957

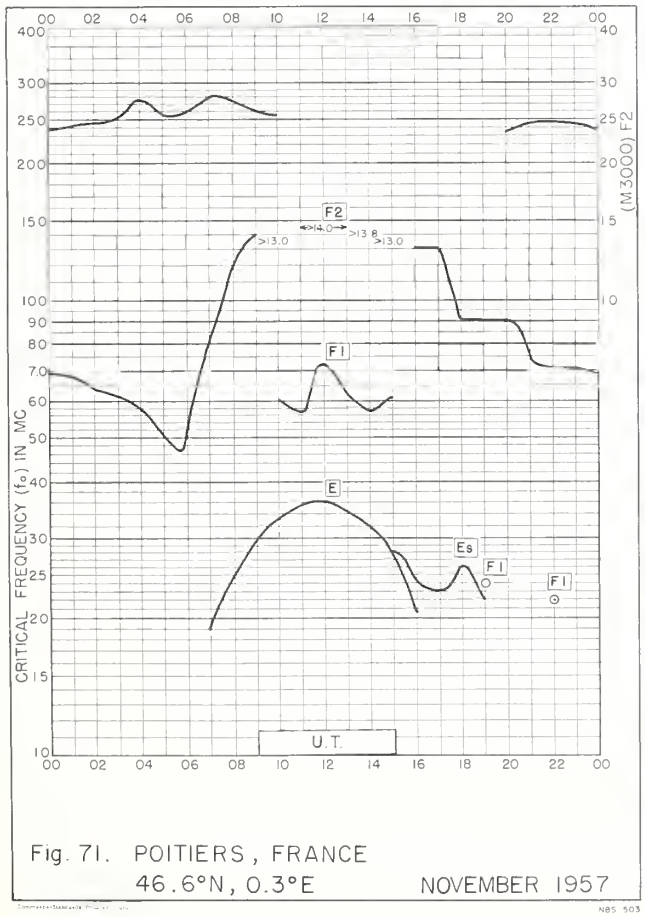

Fig. 71. POITIERS, FRANCE
46.6°N, 0.3°E NOVEMBER 1957

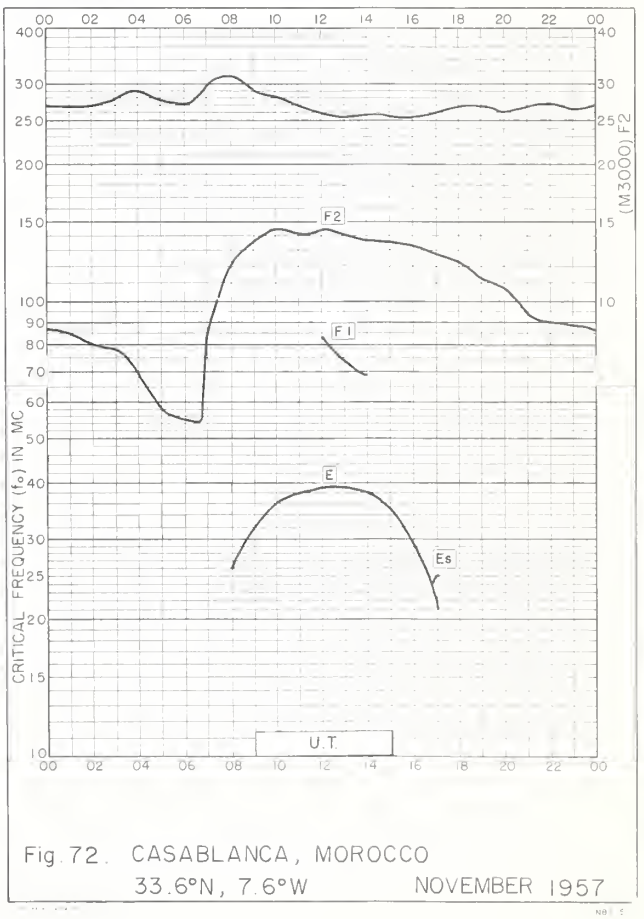

Fig. 72. CASABLANCA, MOROCCO
33.6°N, 7.6°W NOVEMBER 1957

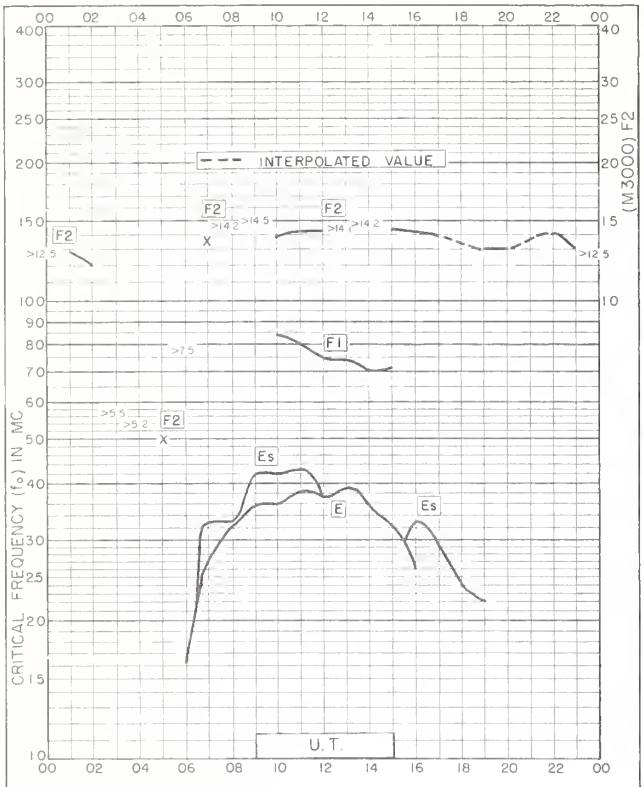

Fig. 73. TAMANRASSET, FRENCH W. AFRICA
22.8°N, 5.5°E NOVEMBER 1957

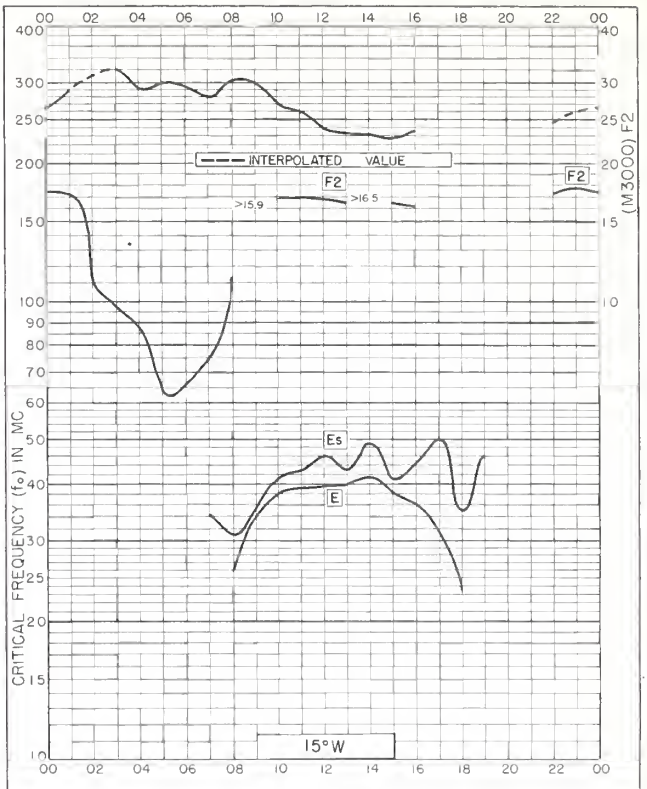

Fig. 74. DAKAR, FRENCH W. AFRICA
14.7°N, 17.4°W NOVEMBER 1957

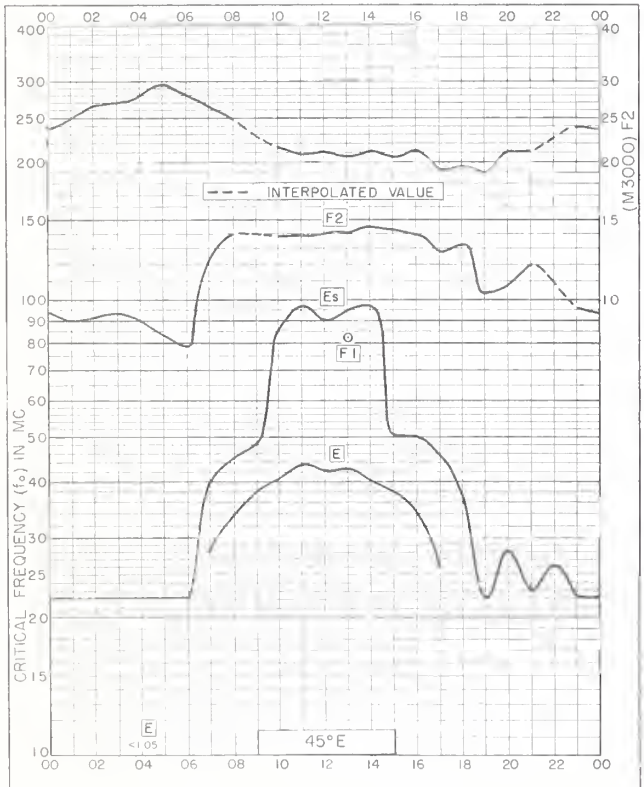

Fig. 75. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E NOVEMBER 1957

Fig. 76. TANANARIVE, MADAGASCAR
18.8°S, 47.5°E NOVEMBER 1957

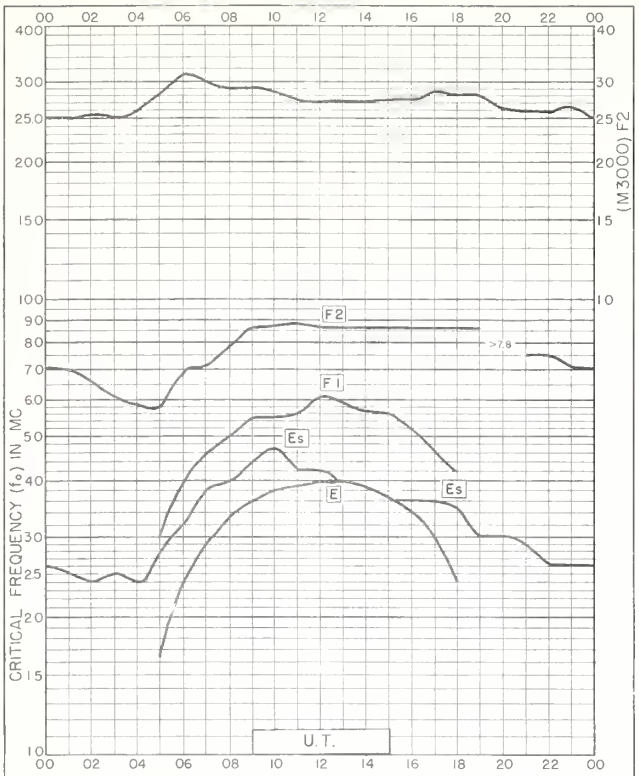

Fig. 77. POITIERS, FRANCE
46.6°N, 0.3°E AUGUST 1957

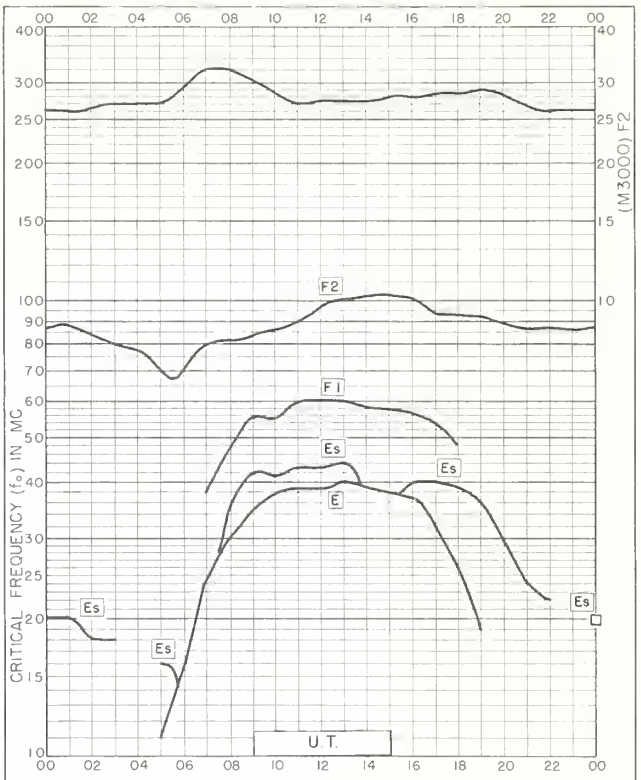

Fig. 78. CASABLANCA, MOROCCO
33.6°N, 7.6°W AUGUST 1957

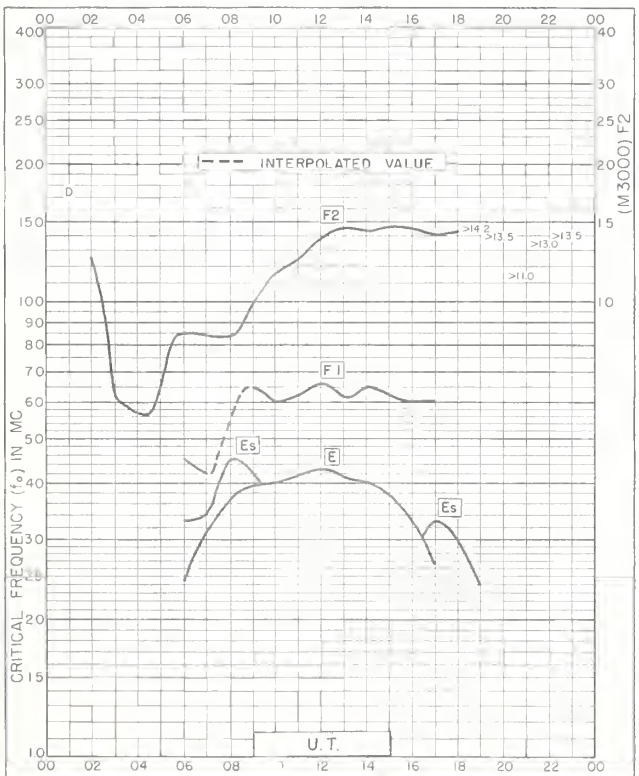

Fig. 79. TAMANRASSET, FRENCH W. AFRICA
22.8°N, 5.5°E AUGUST 1957

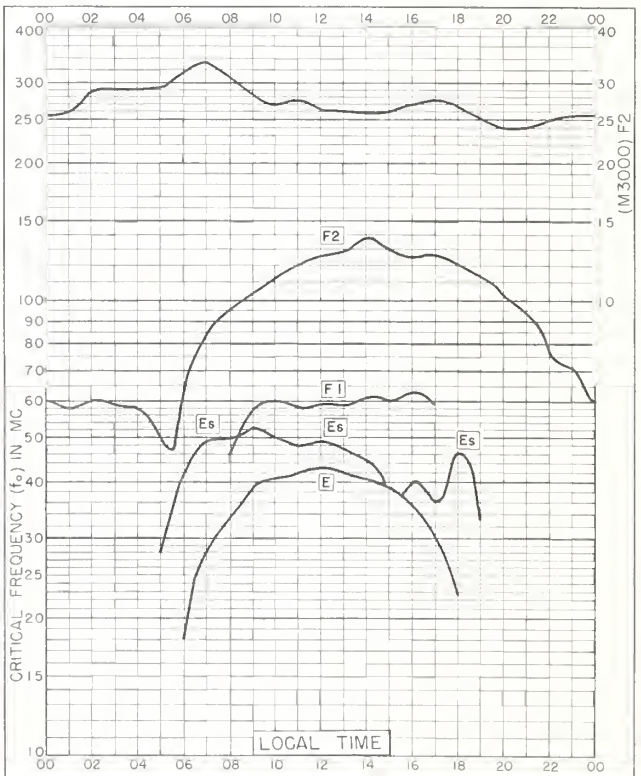

Fig. 80. DAKAR, FRENCH W. AFRICA
14.7°N, 17.4°W AUGUST 1957

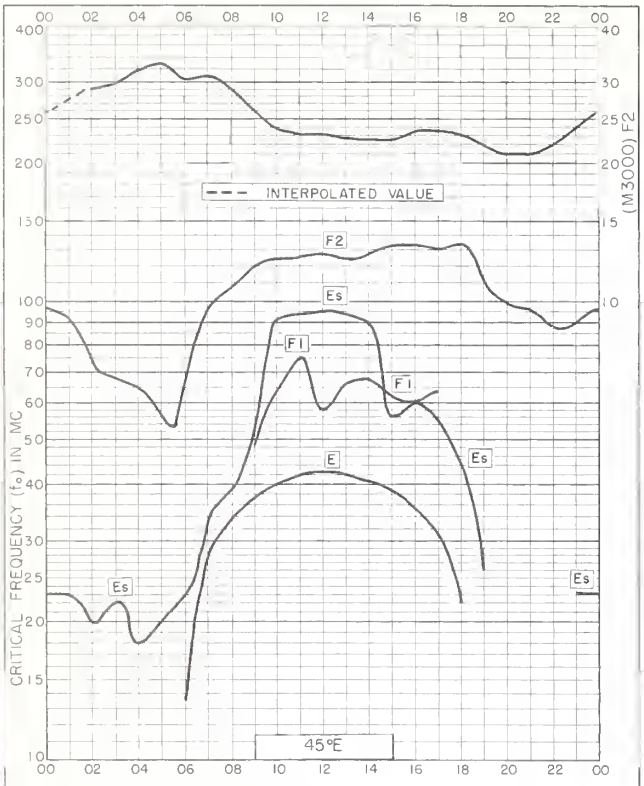

Fig. 81. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E AUGUST 1957

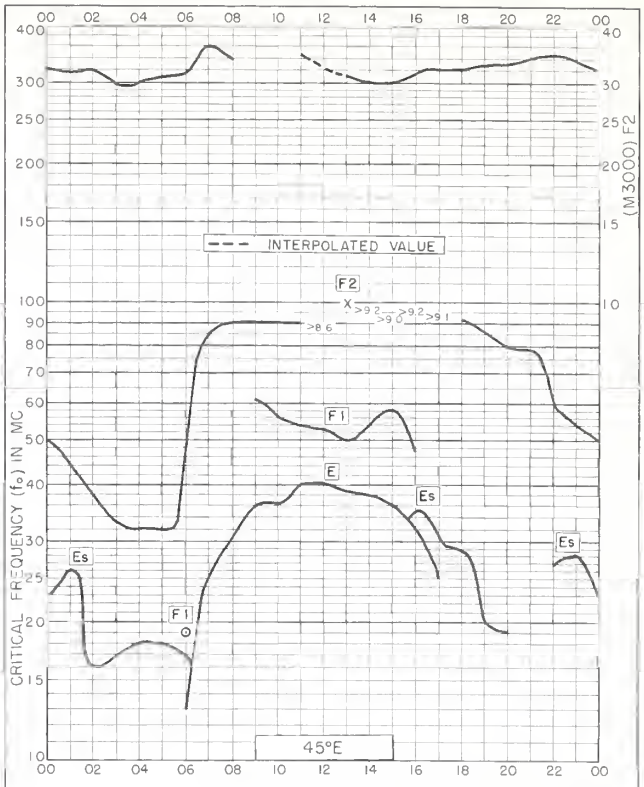

Fig. 82. TANANARIVE, MADAGASCAR
18.8°S, 47.5°E AUGUST 1957

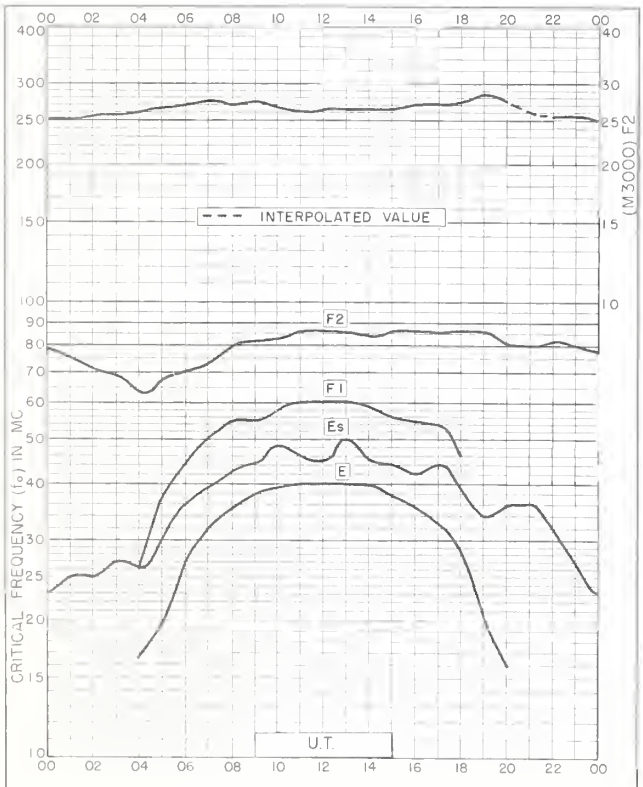

Fig. 83. POITIERS, FRANCE
46.6°N, 0.3°E JULY 1957

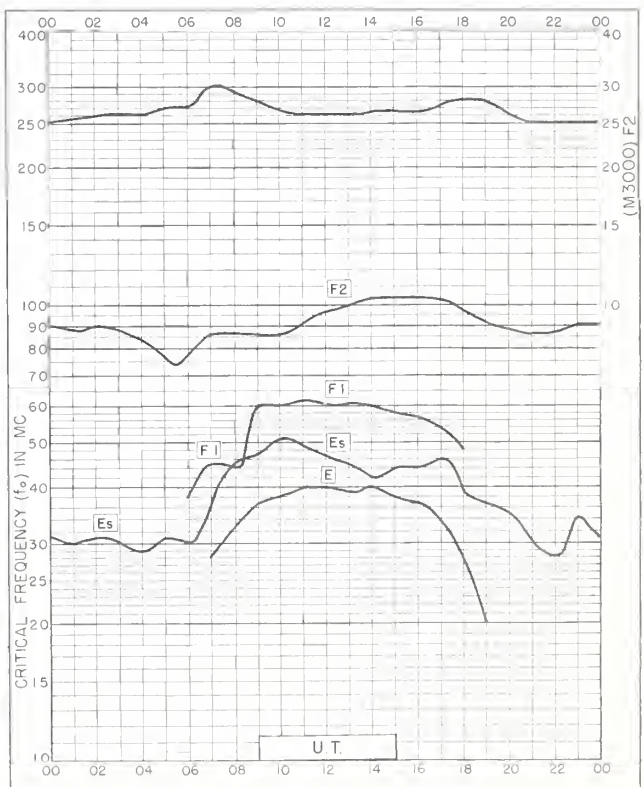

Fig. 84. CASABLANCA, MOROCCO
33.6°N, 7.6°W JULY 1957

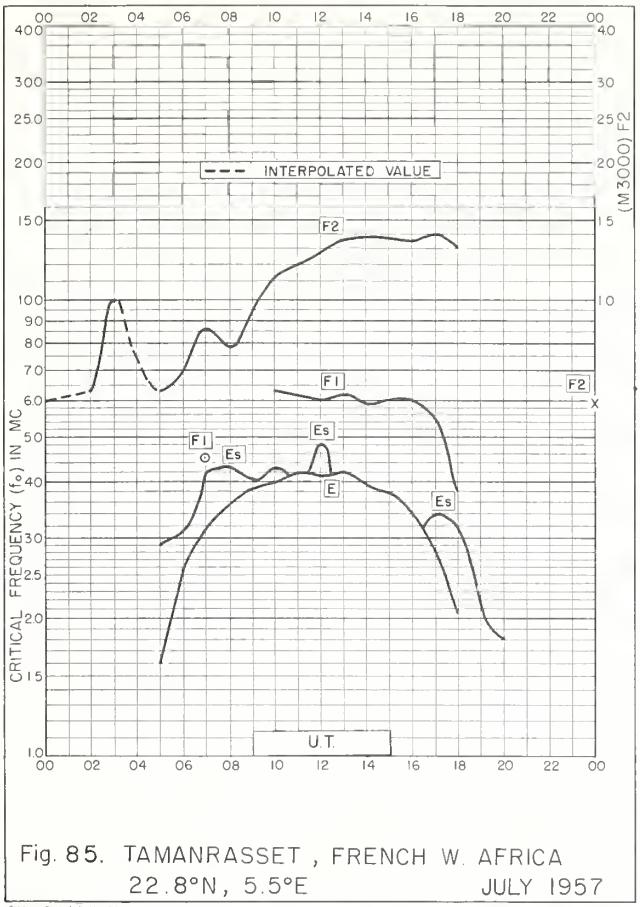

Fig. 85. TAMANRASSET, FRENCH W. AFRICA
22.8°N, 5.5°E JULY 1957

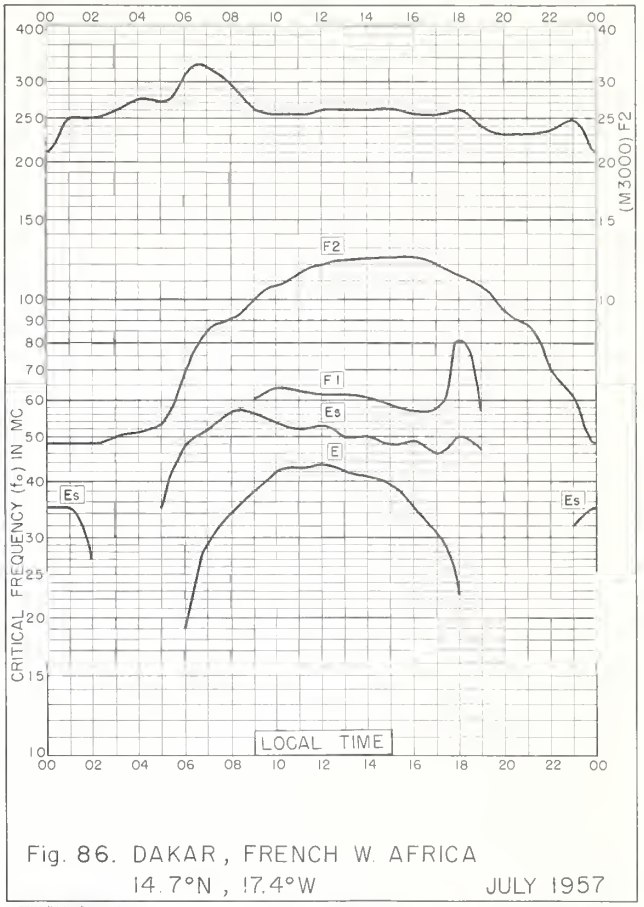

Fig. 86. DAKAR, FRENCH W. AFRICA
14.7°N, 17.4°W JULY 1957

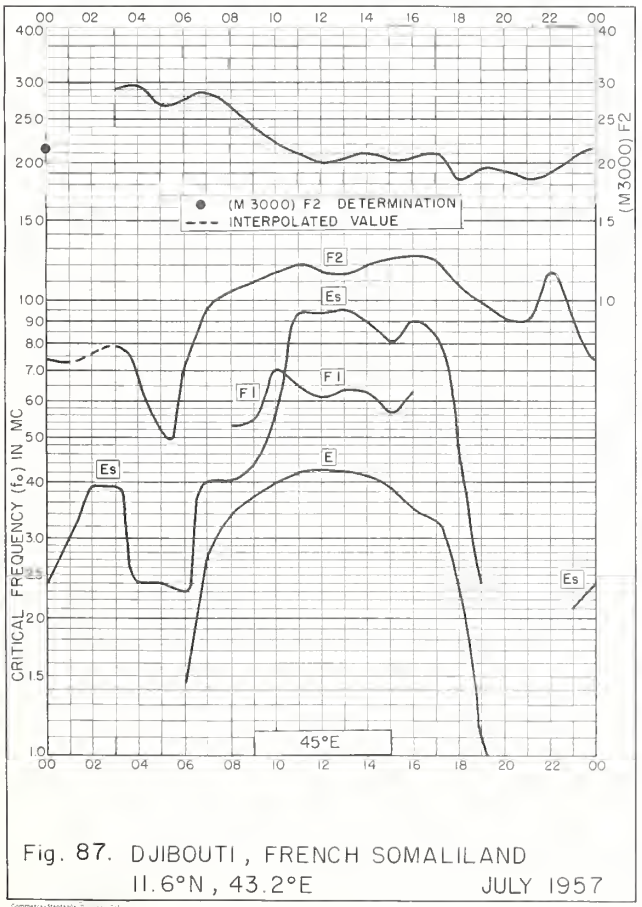

Fig. 87. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E JULY 1957

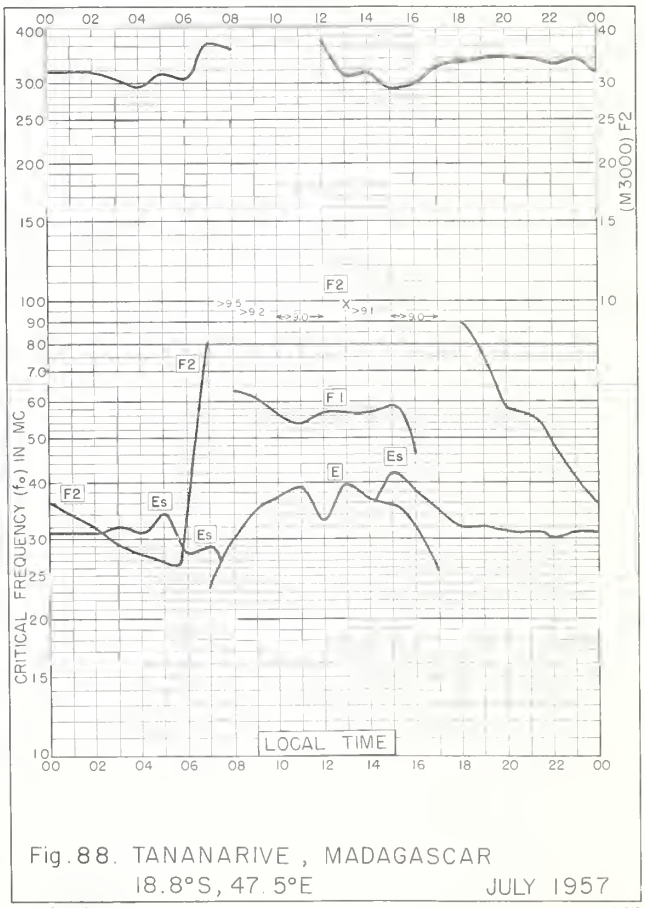

Fig. 88. TANANARIVE, MADAGASCAR
18.8°S, 47.5°E JULY 1957

Fig. 89. PORT LOCKROY
64.8°S, 63.5°W JULY 1957

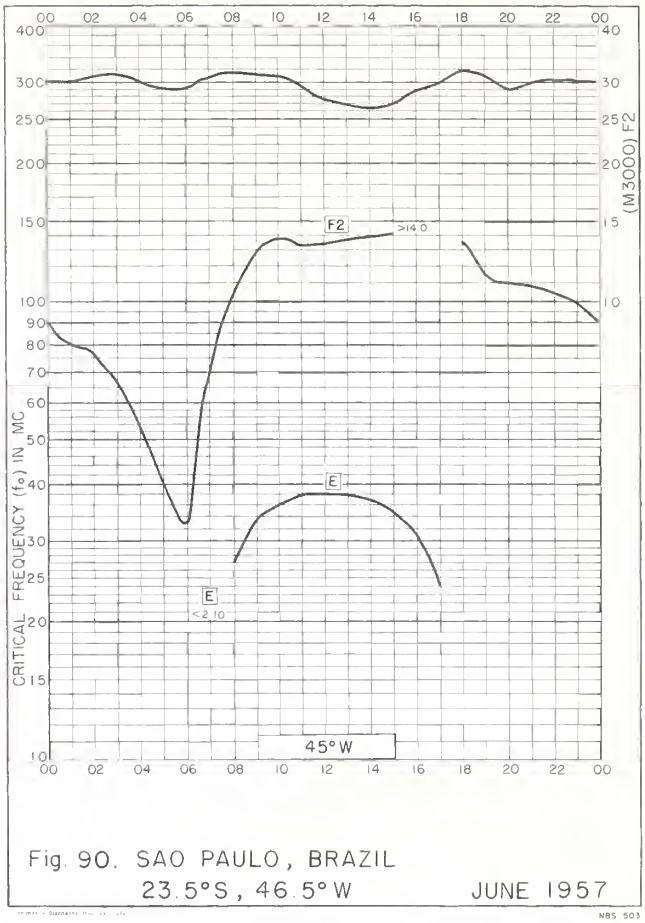

Fig. 90. SAO PAULO, BRAZIL
23.5°S, 46.5°W JUNE 1957

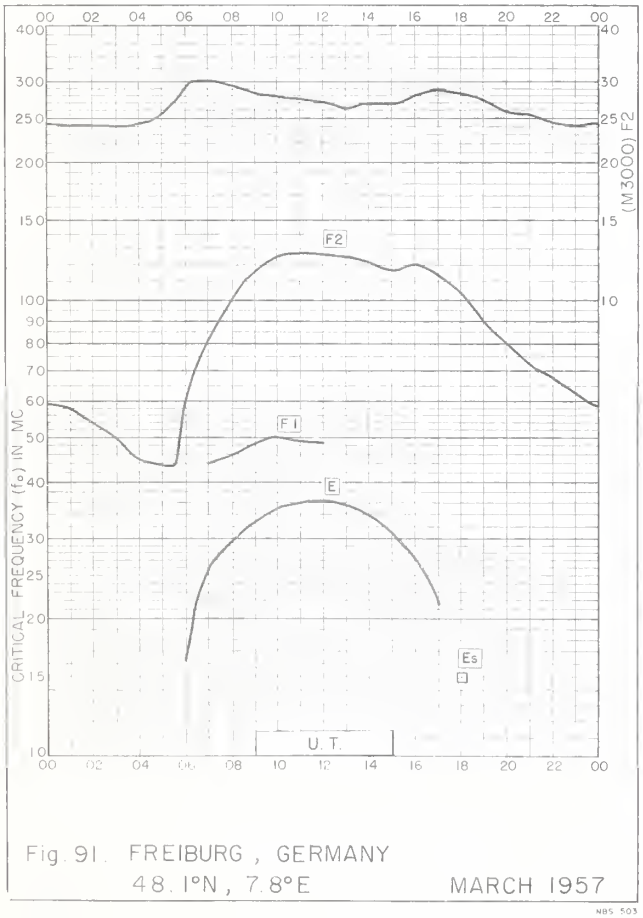

Fig. 91. FREIBURG, GERMANY
48.1°N, 7.8°E MARCH 1957

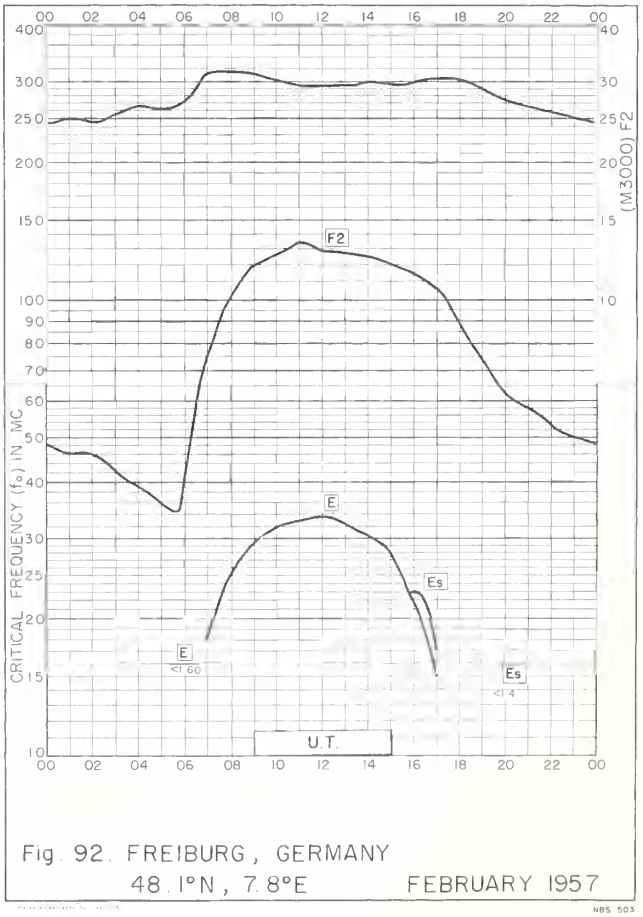

Fig. 92. FREIBURG, GERMANY
48.1°N, 7.8°E FEBRUARY 1957

Fig. 93. FREIBURG, GERMANY
48.1°N, 7.8°E JANUARY 1957

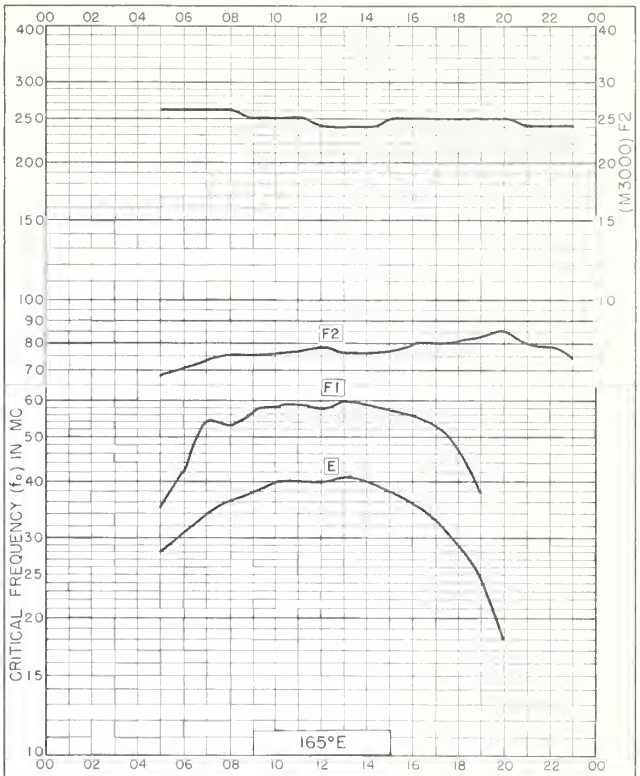

Fig. 94. CAMPBELL I.
52.5°S, 169.2°E JANUARY 1957

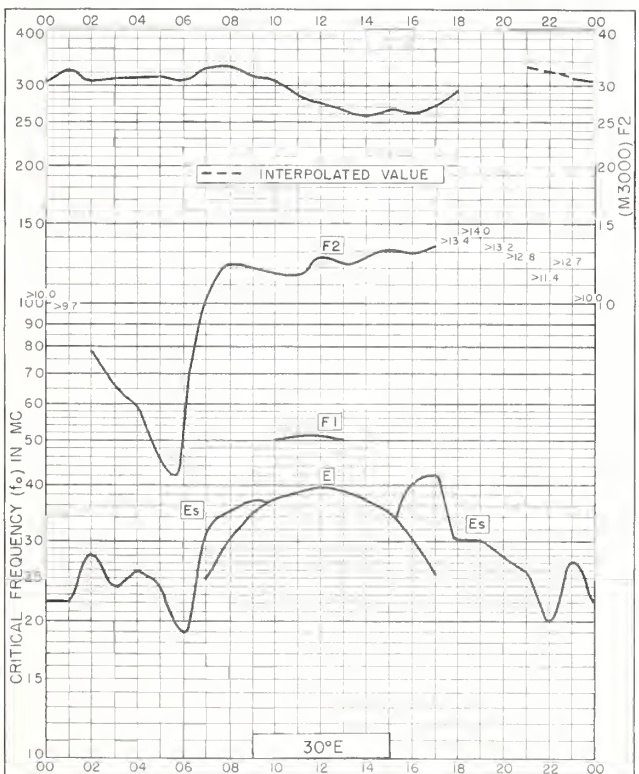

Fig. 95. LWIRO, CONGO
2.3°S, 28.8°E JUNE 1956

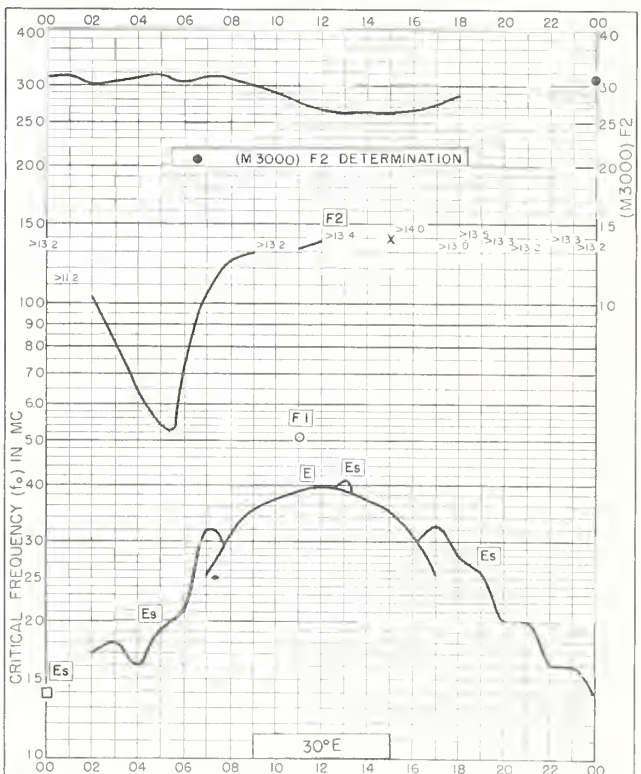

Fig. 96. LWIRO, CONGO
2.3°S, 28.8°E MAY 1956

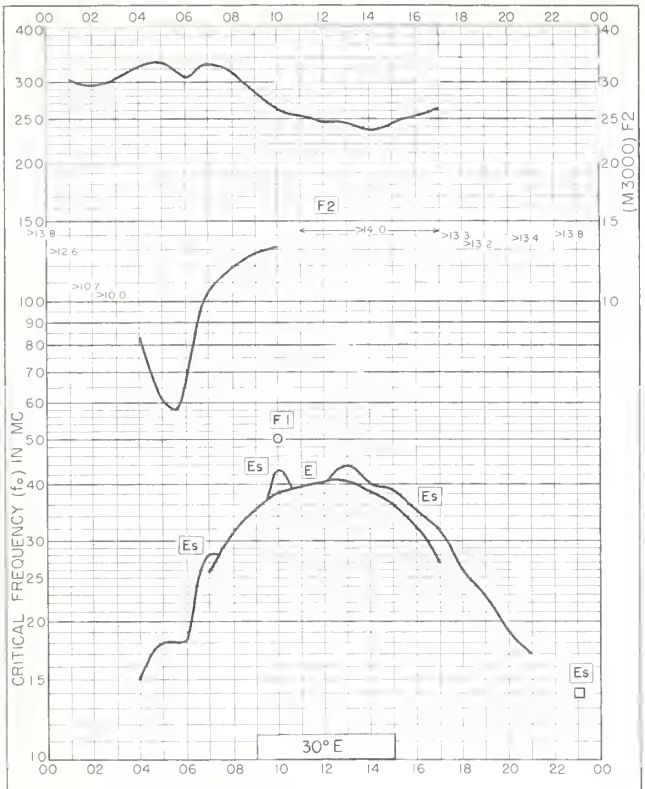

Fig. 97. LWIRO, CONGO
2.3°S, 28.8°E APRIL 1956

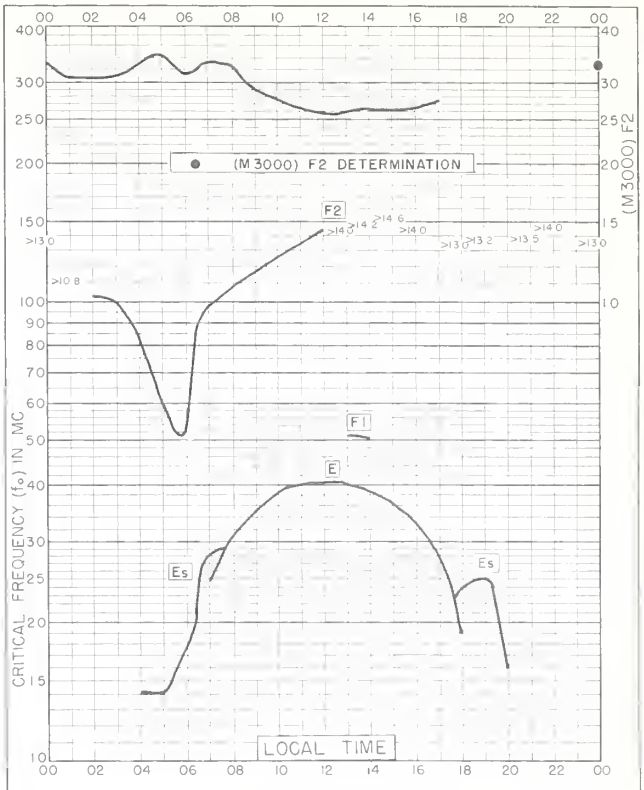

Fig. 98. LWIRO, CONGO
2.3°S, 28.8°E MARCH 1956

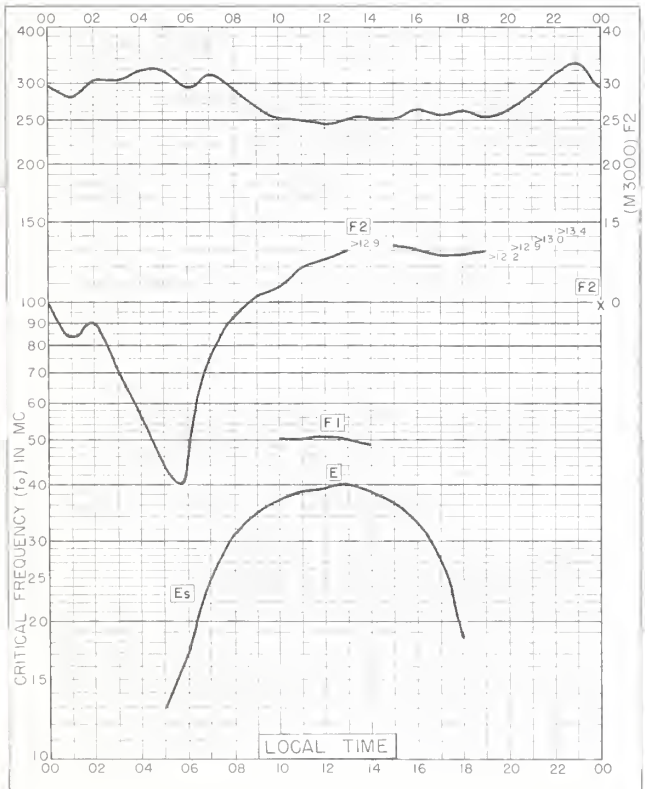

Fig. 99. LWIRO, CONGO
2.3°S, 28.8°E FEBRUARY 1956

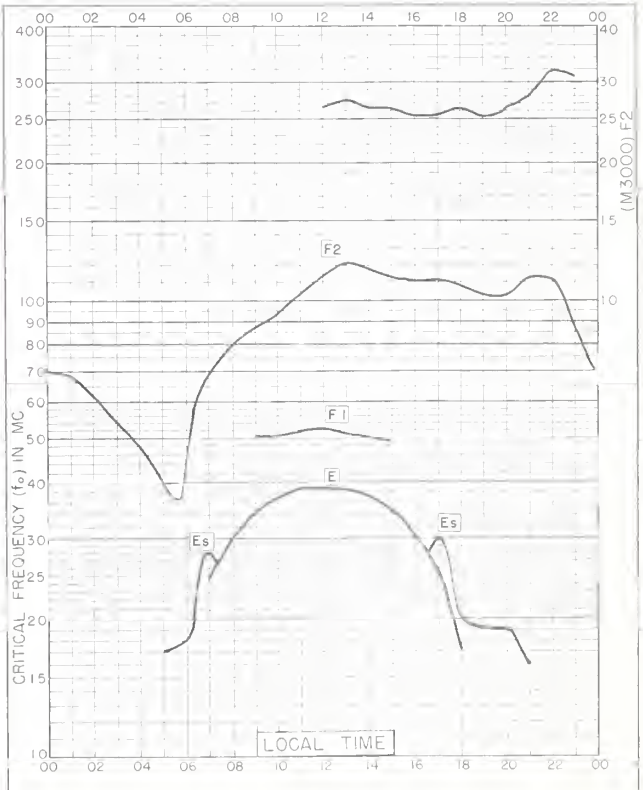

Fig. 100. LWIRO, CONGO
2.3°S, 28.8°E JANUARY 1956

Index of Tables and Graphs of Ionospheric Data in CRPL-F219 (Part A)

Index (CRPL-F219 (Part A) continued)

Index (CRPL-F219 (Part A), continued)

Index (CRPL-F219 (Part A), concluded)

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[A detailed list of CRPL publications is available from the Central Radio Propagation Laboratory upon request]

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Radio disturbance forecasts, every half hour from broadcast stations WWV and WWVH of the National Bureau of Standards.

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CRPL—J. North Atlantic Radio Propagation Forecast.

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CRPL—F. (Part A). Ionospheric Data.
(Part B). Solar-Geophysical Data.
Limited distribution. These publications are in general disseminated only to those individuals or scientific organizations which collaborate in the exchange of ionospheric, solar, geomagnetic, or other radio propagation data.

Catalog of Data:

A catalog of records and data on file at the U. S. IGY World Data Center A for Airglow and Ionosphere, Boulder Laboratories, National Bureau of Standards, which includes a fee schedule to cover the cost of supplying copies, is available upon request.

The publications listed above may be obtained without charge from the Central Radio Propagation Laboratory, National Bureau of Standards, Boulder Laboratories, Boulder, Colorado, unless otherwise indicated. Please note that the F series is not generally available.

Circulars of the National Bureau of Standards pertaining to Radio Sky Wave Transmission:

NBS Circular 462. Ionospheric Radio Propagation. $1.25.

NBS Circular 465. Instructions for the Use of Basic Radio Propagation Predictions. 30 cents.

NBS Circular 557. Worldwide Radio Noise Levels Expected in the Frequency Band 10 Kilocycles to 100 megacycles. 30 cents.

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These Circulars are on sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Members of the Armed Forces should address the respective military office having cognizance of radio wave propagation.

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NBS Tech. Note 2. PB151361. World Maps of F2 Critical Frequencies and Maximum Usable Frequency Factors. $3.50. PB151361-2. $3.50.

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