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CRPL-F 218 PART A

FOR OFFICIAL USE

PART A

IONOSPHERIC DATA

ISSUED
OCTOBER 1962

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

CRPL-F 218
PART A

NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

Issued
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IONOSPHERIC DATA

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IONOSPHERIC DATA

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									

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.

Commonwealth of Australia, Ionospheric Prediction Service of the Commonwealth Observatory:
- Mawson

Australian Department of National Development, Bureau of Mineral Resources, Geology and Geophysics:
- Mundaring, Western Australia

Electronics Directorate of the Brazilian Navy:
- Natal, Brazil

Danish National Committee of URSI:
- Narssarssauq, Greenland

Ionospheric Research Group (GRI), France:
- Dakar, French West Africa
- Djibouti, French Somaliland
- Paris, France
- Tahiti, Society Is.
- Tananarive, Madagascar

Indian Council of Scientific and Industrial Research, Radio Research Committee, New Delhi, India:
- Ahmedabad (Physical Research Laboratory)
- Bombay (All India Radio)
- Delhi (All India Radio)
- Kodaikanal (India Meteorological Department)
- Madras (All India Radio)
- Tiruchy (All India Radio)
- Trivandrum (All India Radio)

Geophysical and Geodetic Institute, Genoa, Italy:
- Genoa (Monte Capellino), Italy

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

United States Army Signal Corps:
- Adak, Alaska
- Ft. Monmouth, New Jersey
- Grand Bahama I.

National Bureau of Standards (Central Radio Propagation Laboratory):
- Anchorage, Alaska
- Huancayo, Peru (Instituto Geofisico de Huancayo)
- Point Barrow, Alaska
- Talara, Peru (Instituto Geofisico de Huancayo)
- Washington, D. C.

TABLES OF IONOSPHERIC DATA

January 1961 - April 1962

TABLE 1

WASHINGTON, D.C. (38.7N, 77.1W) — 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	25	26	30	325	34	32	28	30	49	56	63	67	72	67	67	65	61	54	44	39	32	25	24	24
	CNT	25	23	23	26	30	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	30	29	28
	UQ	28	30	32	35	37	36	33	34	53	60	68	73	76	74	71	71	67	58	51	44	36	29	26	27
	LQ	23	23	25	25	28	26	25	27	44	52	56	62	68	65	62	61	56	49	39	33	25	24	21	22
h'F2	MED										230	250	260	260	260	260	250	240							
	CNT									1	13	17	24	30	29	23	25	16							
	UQ										250	270	270	265	265	265	260	245							
	LQ										220	240	250	255	250	245	240	230							
h'F	MED	E 2875	E 290	E 2825	E 270	U 250	240	U 2425	240	220	220	220	210	205	210	210	215	2325	220	230	235	240	E 255	E 280	E 280
	CNT	24	25	26	29	31	31	30	31	31	31	31	31	31	31	31	31	30	31	31	31	31	29	26	28
	UQ	300	305	300	270	270	255	265	250	230	230	230	230	220	220	220	220	240	230	235	245	250	275	310	300
	LQ	270	275	270	255	240	225	235	230	215	205	200	190	200	200	200	205	220	220	220	230	235	245	270	270
(M3000)F2	MED	300	295	300	305	320	325	320	330	355	3525	3425	335	340	340	340	340	340	345	330	325	330	3125	300	300
	CNT	20	20	18	23	27	28	27	31	31	30	30	31	31	31	31	31	31	31	31	31	29	28	26	26
	UQ	310	300	300	320	330	340	330	330	360	360	350	350	340	345	345	340	350	350	340	330	335	330	305	310
	LQ	290	290	290	300	305	310	315	320	345	340	330	330	330	325	325	330	335	335	310	320	320	310	290	300
foF1	MED																								
	CNT										1	2	3	2	3										
foE	MED									U 190	240	2725	290	300	295	280	255	U 225	180						
	CNT									25	26	26	28	26	29	28	27	21	7						
h'E	MED									U 135	112	109	109	111	111	111	E 115	121							
	CNT									23	30	30	31	31	31	31	29	25							
foEs	MED									19	25	30	32	31	30			23							20
	CNT	29	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — JANUARY, 1962

TABLE 2

ANCHORAGE, ALASKA (61.2N, 149.9W) — 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 235	U 285	U 30	U 29	U 25	U 24	U 24	24	39	53	58	63	65	U 65	52	41	U 32	U 23	U 21		U 20	U 18	U 19
	CNT	8	6	6	9	7	3	5	5	14	29	28	29	28	27	29	30	30	28	17	8	1	3	3	3
	UQ	37	29	33	37	35	32	30	29	27	41	57	62	68	69	70	56	45	36	26	22		22	19	20
	LQ	18	18	17	24	23	21	19	21	23	35	48	55	57	59	60	49	37	29	22	20		18	18	18
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 320			U 285	U 280				310	340	3525	355	355	350	U 350	355	335	345	U 325					
	CNT	5	3	4	7	5		3	3	12	29	24	24	26	27	29	30	28	25	13	4		1	3	3
	UQ	340			300	290				315	355	360	370	365	355	365	365	340	355	350					
	LQ	300			275	280				285	330	335	340	340	340	340	340	325	330	310					
foF1	MED																								
	CNT																								
foE	MED																								
	CNT												2	4	2	1	1								
h'E	MED												E 129												
	CNT										2	3	7	4	4	2									
foEs	MED	29	285	30	26	19																	U 24	U 30	20
	CNT	15	14	17	16	15	11	12	11	21	29	28	29	28	28	29	30	30	29	24	11	3	5	9	10

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — DECEMBER, 1961

TABLE

OAK, ALASKA (51.9N, 176.6W) — TIME 180.0W

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 27	D 27	285	29	28	28	28	255	43	56	63	70	D 68	67	D 655	545	45	305	23	20	21	20	23	U 26
	CNT	23	22	22	24	23	24	22	26	30	31	31	31	31	30	30	30	31	30	29	25	25	23	24	25
	UQ	29	29	30	31	31	32	29	27	49	65	71	75	78	71	70	62	48	35	26	21	24	22	24	28
	LQ	25	26	27	28	26	26	24	24	41	53	58	64	65	60	61	50	41	27	19	20	18	18	21	25
h'F2	MED												U 236	U 2295	U 221										
	CNT										2	2	5	6	5	3	1								
	UQ												354	250	246										
	LQ												225	225	216										
h'F	MED	273	2785	2765	269	2555	255	232	239	215	216	219	220	216	213	2155	208	209	219	240	U 249	2445	272	2775	E 2735
	CNT	27	26	28	27	24	26	24	27	30	31	30	31	31	29	30	30	31	30	29	25	26	23	26	26
	UQ	300	300	300	279	272	269	250	255	223	220	228	230	225	220	221	211	218	230	265	268	265	300	309	289
	LQ	252	260	258	252	248	248	220	215	204	207	215	215	213	209	210	201	205	210	220	230	230	247	260	260
(M3000)F2	MED	300	290	2975	300	315	315	330	3375	360	350	350	360	360	3625	365	365	360	3425	340	3375	340	310	300	305
	CNT	20	19	16	19	19	20	21	24	27	25	26	29	30	30	29	29	30	28	27	22	21	19	24	21
	UQ	310	300	300	315	325	320	340	350	365	360	370	370	370	370	375	370	370	360	360	350	350	320	310	320
	LQ	280	280	290	295	300	305	320	310	335	340	340	345	350	340	345	350	330	315	330	320	330	300	290	300
foF1	MED																								
	CNT										2	1	2	1			1								
foE	MED									170	205	230	240	U 250	240	220	185	145							
	CNT								1	17	18	19	13	19	17	13	13	6							
h'E	MED									E 155	E 120	1165	115	115	U 116	U 117	E 130	E							
	CNT								1	17	24	24	24	25	23	19	14	12							
foEs	MED											25													
	CNT	28	28	29	28	25	27	25	27	29	30	30	31	31	30	30	30	31	30	29	25	27	25	27	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — DECEMBER, 1961

TABLE

WASHINGTON, D.C. (38.7N, 77.1W) — 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	MEO	25	26	31	34	355	345	295	35	55	62	67	72	75	76	72	72	67	58	46	37	28	26	24	24
	CNT	30	31	29	29	30	30	30	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	30
	UQ	28	32	35	38	39	38	34	37	58	66	72	79	81	85	81	76	72	63	50	41	32	28	26	25
	LQ	23	24	25	30	32	30	25	33	52	59	62	67	70	69	67	67	62	51	40	33	26	23	22	22
h'F2	MEO										230	235	2425	245	250	240	235								
	CNT									1	13	20	24	29	27	26	25	3							
	UQ										240	240	250	250	255	250	240								
	LQ										225	230	240	240	240	240	230								
h'F	MEO	E 2975	E 285	U 275	260	250	240	E 250	240	220	220	210	210	205	210	215	225	225	220	220	225	E 245	U 255	E 280	E 300
	CNT	30	31	31	31	31	31	31	31	31	31	31	31	29	30	30	31	31	31	31	31	31	31	31	31
	UQ	315	305	300	270	260	250	265	250	230	230	220	220	215	225	220	230	235	220	230	240	255	280	305	315
	LQ	270	270	260	250	235	230	235	225	220	215	200	200	200	200	205	210	220	205	215	220	235	240	260	275
(M3000)F2	MEO	290	300	300	300	3125	3275	315	3225	355	350	350	345	335	340	340	340	340	335	330	330	330	315	300	2975
	CNT	27	27	27	27	28	28	27	28	29	31	31	30	30	31	31	31	31	29	29	26	27	28	30	30
	UQ	300	310	305	310	325	340	330	330	360	360	360	350	350	350	350	350	350	340	340	340	335	330	310	310
	LQ	280	290	285	300	305	310	310	310	340	340	335	330	330	325	325	330	335	330	320	320	315	310	285	290
foF1	MEO											1	2	1	1										
	CNT																								
foE	MEO									1925	240	270	285	300	290	275	245	205							
	CNT								1	26	29	27	30	29	29	27	26	13							
h'E	MEO									E 131	111	109	109	109	111	109	115	123							
	CNT								1	24	29	30	31	31	31	30	29	19							
foEs	MEO									20	26	31	32	32	30	29	25	21	18						
	CNT	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — DECEMBER, 1961

TABLE 5

TALARA, PERU (4.6S, 81.3W) — 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	70	U 66	U 44	35	285	275	36	67	89	98	106	110	113	112	1095	110	1125	112	110	108	109	102	86	729
	CNT	17	15	10	11	18	20	27	30	30	30	31	31	30	30	30	30	30	30	31	31	31	29	25	16
	UQ	80	71	55	44	40	34	39	70	97	110	116	117	120	116	117	120	119	118	119	120	118	110	99	86
	LQ	60	57	30	30	21	22	31	63	80	93	101	100	109	107	105	105	102	102	100	100	101	80	72	59
h'F2	MED										U 280	300	310	330	310	310	U 300	U 2475							
	CNT									2	8	23	17	20	21	12	7	6	3						
	UQ										285	315	320	360	330	340	310	315							
	LQ										275	295	300	310	300	300	287	290							
hF	MED	U 2325	225	230	E 235	E 240	E 240	470	235	220	21	200	190	U 1825	1875	190	190	L 200	230	250	240	230	2175	E 2175	235
	CNT	24	24	22	23	22	23	29	31	30	28	30	30	25	24	26	25	21	19	27	31	31	3	30	25
	UQ	255	245	240	250	250	260	270	240	230	220	210	210	200	190	200	210	220	240	250	250	240	235	235	255
	LQ	230	220	215	220	230	230	250	220	205	195	185	185	180	180	180	180	180	215	245	230	220	210	215	230
(M3000)F2	MED	325	U 340	U 350	3275	3275	3325	310	3225	320	310	300	280	270	270	2675	270	2775	295	300	320	340	3375	335	320
	CNT	13	7	7	10	16	18	26	30	3	3	31	31	30	29	30	30	30	30	30	30	29	28	22	13
	UQ	345	355	365	335	340	350	325	335	335	320	320	300	295	295	290	295	295	305	320	330	3525	350	350	330
	LQ	320	330	320	320	315	320	300	315	305	295	290	270	250	255	250	255	260	265	285	310	325	320	315	315
foF1	MED												480	480	465	465									
	CNT											3	12	17	10	6									
foE	MED								L 2325	290	3225	340	360	370	360	U 350	U 335	305	265	U 2125					
	CNT								22	26	22	23	20	16	17	17	18	16	13	5					
h'E	MED								119	111	109	109	109	107	109	107	107	109	111	121					
	CNT								26	29	27	24	24	24	25	28	29	28	21	11					
foEs	MED	35	32	33	22	21	20	19	25	33	33	45	42	41	46	465	45	435	425	35	31	32	30	31	36
	CNT	31	31	31	31	31	31	31	31	30	30	31	31	30	30	30	30	30	30	31	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — DECEMBER, 1961

TABLE 6

AOAK, ALASKA (51.9N, 176.6W) — TIME 180.0W

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	29	285	28	U 28	29	30	29	40	U 58	66	80	D 80	815	765	70	645	52	40	D 295	21	22	U 22	25	275
	CNT	28	26	28	28	29	27	26	30	29	29	30	30	30	30	30	30	29	30	30	27	27	27	28	28
	UQ	30	31	30	35	31	32	30	44	60	72	85	86	84	80	78	72	63	45	34	25	24	24	28	29
	LQ	26	26	26	26	26	27	27	36	56	64	75	76	75	69	66	57	47	33	23	19	19	21	23	24
h'F2	MED										U 220	219	2215	226	U 220										
	CNT										5	6	10	15	8	1									
	UQ										245	254	229	233	225										
	LQ										208	213	218	220	218										
h'F	MED	272	U 270	267	U 2645	U 272	260	230	220	214	210	215	2135	213	215	218	213	205	208	2225	2395	245	U 270	261	U 2675
	CNT	30	29	29	28	29	28	27	30	29	29	37	33	30	29	30	30	29	30	30	28	28	27	28	28
	UQ	300	299	284	294	298	278	267	224	218	218	224	217	220	224	223	218	214	218	228	258	262	289	285	296
	LQ	254	253	256	263	262	240	220	215	206	203	209	205	210	210	215	209	201	200	215	228	238	252	251	252
(M3000)F2	MED	300	2975	300	U 300	300	305	335	340	U 3575	3525	350	340	355	355	350	360	360	3425	340	335	330	U 310	310	3025
	CNT	25	24	27	22	26	24	22	30	26	28	30	29	29	30	30	30	29	30	27	24	26	24	28	26
	UQ	310	310	305	305	300	320	345	350	370	370	365	360	360	355	360	370	370	361	360	350	350	320	310	310
	LQ	290	290	290	295	290	300	320	320	345	345	345	340	350	345	345	355	350	330	330	320	315	295	290	290
foF1	MED											1	2		1										
	CNT																								
foE	MED								U 165	195	225	2525	260	260	250	2275	200	140							
	CNT								5	16	18	12	23	24	23	24	21	9							
h'E	MED								1225	1195	113	113	113	E 111	E 115	E 115	125	U 149							
	CNT								14	22	23	24	25	26	27	26	21	11							
foEs	MED										D 22	D 26						15	17						
	CNT	30	30	29	30	30	29	30	29	28	29	30	30	30	30	30	30	28	30	30	29	30	29	29	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — NOVEMBER, 1961

TABLE

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	38	34	41	405	38	355	33	55	715	78	81	80	78	815	865	84	79	72	57	365	33	33	35	365
	CNT	27	27	26	26	27	28	28	29	30	29	30	29	28	28	28	29	29	27	27	28	28	29	28	28
	UQ	40	41	43	42	41	39	35	60	74	87	88	85	87	88	94	90	86	76	59	40	36	38	38	40
	LQ	37	37	38	37	37	33	31	51	67	74	77	76	73	76	80	78	76	66	45	34	29	31	32	35
h'F2	MED									U 230	244	2495	255	265	2655	261	242	2275							
	CNT									6	18	28	29	23	22	24	21	18							
	UQ									238	254	254	260	275	267	264	250	230							
	LQ									230	237	244	248	250	260	256	239	224							
h'F	MED	E 262	E 252	E 250	U 239	U 230	U 240	E 240	215	213	210	214	205	209	207	210	E 2245	2245	210	204	S 220	L 243	E 2595	L 259	S 269
	CNT	28	27	27	27	27	27	27	28	29	29	29	29	28	27	27	26	28	27	27	28	27	28	28	29
	UQ	274	272	262	261	250	245	250	224	222	220	220	215	217	210	220	228	229	217	209	226	260	270	269	276
	LQ	257	249	240	231	224	226	229	208	203	200	204	200	200	199	205	218	220	207	200	211	235	238	254	249
(M3000)F2	MED	300	310	315	320	3225	320	310	350	353	345	345	335	330	330	330	335	340	345	340	3325	315	310	310	300
	CNT	26	26	25	25	24	26	27	28	27	29	31	29	29	27	27	29	29	27	27	28	27	28	25	27
	UQ	310	310	320	325	335	330	320	355	355	350	355	345	340	345	335	340	350	355	350	340	320	315	320	310
	LQ	295	300	310	310	310	305	300	340	340	340	347	330	320	320	330	330	330	335	335	315	300	300	300	295
foF1	MED															U 440									
	CNT									1	1	2	3	2	4	5									
foE	MED								195	245	2815	315	330	335	330	320	295	245	185						
	CNT								26	28	26	25	23	22	21	13	17	18	15						
h'E	MED								E 140	112	109	106	1065	1065	1075	109	U 117	U 112	E 142						
	CNT								25	29	29	29	28	28	26	26	28	28	7						
foEs	MED	215									30	335	35	355	35	335	31	26	17	11	225		21		
	CNT	28	28	27	27	28	28	28	21	30	29	30	29	28	28	28	28	29	26	27	28	28	29	29	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — NOVEMBER, 1961

TABLE 8

TALARA, PERU (4.6S, 81.3W) — 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	835	73	565	395	31	29	45	745	93	102	1105	1135	118	1175	116	117	116	117	119	D 1175	D 117	113	99	935
	CNT	22	23	22	24	25	27	29	28	29	30	30	30	30	30	30	30	30	30	30	30	28	22	19	18
	UQ	102	84	61	48	45	38	48	77	97	107	116	120	121	126	124	124	126	124	126	126	122	120	109	106
	LQ	74	67	43	36	27	24	42	70	88	97	105	105	106	110	110	110	110	110	110	108	107	102	92	90
h'F2	MED										U 285	300	305	320	U 320										
	CNT									1	5	16	17	11	7	3	1								
	UQ										290	305	330	330	340										
	LQ										260	295	295	300	310										
h'F	MED	2225	215	229	2275	240	250	2625	235	220	2075	200	200	190	190	195	200	U 200	E 230	250	2575	250	230	220	215
	CNT	28	28	28	28	26	27	30	29	28	30	29	30	29	25	27	26	18	19	27	28	28	26	24	24
	UQ	230	220	235	240	245	270	270	240	225	210	215	205	200	200	200	200	220	240	260	270	270	240	230	235
	LQ	215	210	215	220	235	235	250	230	215	200	185	190	190	180	185	190	195	210	250	245	240	220	220	210
(M3000)F2	MED	335	345	340	335	330	330	315	3275	310	2975	290	275	265	270	270	265	2625	265	280	305	310	3275	325	325
	CNT	21	21	17	21	25	26	29	28	29	30	30	29	29	28	28	30	30	29	26	21	20	18	15	15
	UQ	340	355	350	350	345	340	320	340	330	320	305	300	290	285	285	270	275	280	290	310	320	340	335	335
	LQ	325	330	320	310	320	320	305	315	300	280	260	260	250	260	255	255	250	260	270	295	300	300	310	315
foF1	MED												U 480	480	480										
	CNT											3	11	8	8	1									
foE	MED								245	U 295	325	3475	U 360	365	U 360	350	U 330	295	U 250						
	CNT							2	15	20	24	26	24	25	23	24	16	10	12	4					
h'E	MED								119	111	111	107	109	109	109	107	109	109	111						
	CNT							1	24	28	29	29	29	29	29	29	29	27	24	4					
foEs	MED	37	38	32	27	21	185	21	36	34	355	375	395	39	425	385	405	42	415	415	335	265	25	305	45
	CNT	30	30	30	30	30	30	30	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. — NOVEMBER, 1961

TABLE 9

HUANCAYO, PERU (12.0S, 75.3W) 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 85	U 67	U 55	47	37	34	64	86	95	1045	104	1025	1035	1055	106	1055	103	100	97	935	86	80	U 85	U 835
	CNT	3	5	8	14	14	18	27	28	29	30	28	28	28	30	30	30	29	29	30	30	19	13	5	4
	UO	85	76	64	58	47	37	68	90	100	109	114	112	114	110	112	110	114	110	106	99	91	86	92	88
	LO	80	54	46	45	35	27	62	80	92	93	93	96	96	95	96	98	96	92	93	88	81	76	77	74
h'F2	MED										300	310	3225	325	330	U 335									
	CNT									3	12	11	12	15	15	7	1								
	UO										300	325	350	350	350	350									
	LO										290	300	315	300	305	325									
h'F	MED	275	2725	255	240	235	245	245	230	215	210	200	200	195	1925	195	200	210	235	260	2825	2875	285	305	305
	CNT	22	26	25	24	26	25	29	29	29	30	27	28	28	30	30	30	29	29	30	30	16	13	13	19
	UO	305	295	295	260	255	260	250	230	220	215	205	200	200	200	195	200	220	240	260	300	310	310	320	330
	LO	250	230	230	225	225	230	240	225	210	200	200	190	190	190	190	195	200	230	255	275	275	260	250	260
(M3000)F2	MED		U 290	U 335	3425	340	335	335	330	315	2875	270	255	255	255	255	255	250	255	265	270	2675	265	U 295	
	CNT	3	5	8	14	14	17	26	28	29	30	28	28	28	30	29	27	28	29	30	29	18	12	5	4
	UO		340	335	350	350	340	340	340	330	310	280	270	260	265	260	265	260	260	270	280	280	280	300	
	LO		280	310	340	335	320	320	310	290	260	255	250	245	245	245	245	245	245	255	260	260	260	270	
foF1	MEO											480	480	480	475										
	CNT											9	8	13	12	4	2								
foE	MEO							195	270	U 310	U 340	U 360	U 370	U 375	U 370	U 350	U 325	U 290	U 240	155					
	CNT							20	24	23	23	18	18	20	21	21	24	21	19	14					
h'E	MEO							125	113	109	105	105	102	104	105	107	109	109	111	E 155					
	CNT							25	25	23	23	17	14	14	21	22	23	21	26	11					
foEs	MEO						18	255	48	72	79	79	80	80	80	80	79	70	625	23					
	CNT	28	30	30	28	29	29	26	25	24	25	21	21	22	24	23	23	22	24	30	29	30	29	29	30

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

TABLE 10

WASHINGTON, D.C. 138.7N, 77.1W) 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	355	35	37	345	32	285	325	56	69	72	75	785	82	85	85	85	85	79	68	53	48	42	39	38
	CNT	24	25	25	28	27	28	30	31	31	31	31	30	31	30	30	31	31	31	31	30	30	30	31	29
	UO	42	40	40	38	35	33	37	61	72	77	78	84	88	91	90	91	88	83	72	60	52	48	48	46
	LO	32	30	28	28	27	23	29	52	63	68	70	72	78	78	80	79	78	71	59	48	41	34	33	32
h'F2	MEO								U 235	240	250	260	280	2725	270	270	260	250							
	CNT								5	21	21	26	23	24	25	28	27	21	3						
	UO									245	270	270	290	295	280	280	270	255							
	LO								230	230	240	250	260	270	260	260	250	240							
h'F	MED	275	280	280	270	2625	U 260	260	235	225	210	200	300	200	205	220	225	230	230	220	230	245	265	E 280	275
	CNT	30	31	31	31	28	28	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31
	UO	290	300	290	280	270	295	280	240	230	220	210	205	200	220	225	230	235	240	225	240	250	280	285	290
	LO	270	270	260	255	250	250	245	225	215	205	200	190	190	195	210	215	225	220	210	220	240	265	265	265
(M3000)F2	MED	2925	290	295	300	310	305	3125	3475	350	340	330	325	320	3175	315	320	325	330	325	310	305	300	2925	290
	CNT	20	21	23	23	20	20	24	30	27	29	30	29	30	30	29	30	31	29	30	25	28	28	28	26
	UO	300	300	305	310	315	320	320	355	350	350	340	330	325	320	320	325	330	340	330	325	310	305	300	300
	LO	280	285	280	290	300	290	300	340	335	330	320	315	310	310	310	315	315	315	315	305	300	290	290	285
foF1	MED												450												
	CNT								2	2	3	4	5	4	4	2	3	2							
foE	MED								200	255	2825	3025	315	320	315	300	280	2475	190						
	CNT							1	27	28	28	26	25	27	27	29	29	26	13	1					
h'E	MEO								125	110	109	107	105	105	105	109	111	115	125						
	CNT							1	24	30	31	31	31	31	30	30	31	29	14	3					
foEs	MEO										29	32	32				O 28	26	20						
	CNT	30	31	31	31	28	29	31	31	31	31	31	31	31	30	30	30	31	31	31	30	31	31	31	31

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

TABLE 11

GRAND BAHAMA I. 126.6N, 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	40	43	41	41	38	355	385	63	735	78	82	855	85	90	97	100	95	86	71	495	405	40	41	42
	CNT	25	27	26	27	25	26	26	26	26	26	27	28	28	29	29	29	29	28	27	28	26	28	27	27
	UO	48	48	44	46	40	38	41	66	78	83	91	94	92	98	103	104	102	92	74	55	47	48	48	48
	LO	38	39	38	39	36	31	36	60	71	76	78	76	80	84	91	94	88	79	61	42	34	38	36	37
h'F2	MED									238	259	270	2695	281	288	2745	265	248	U 235						
	CNT									11	14	26	26	27	27	28	27	25	5						
	UO									250	262	280	280	300	301	286	274	251	239						
	LO									232	240	260	261	270	273	262	252	239	225						
h'F	MED	E 277	E 260	U 250	U 240	E 230	E 260	U 252	223	2175	208	200	200	203	204	220	226	230	225	2095	U 217	E 260	E 282	E 275	E 272
	CNT	26	27	27	27	24	25	25	25	26	26	27	29	28	29	29	28	29	27	28	28	26	27	27	26
	UO	298	270	260	250	238	275	270	230	225	212	207	212	210	220	229	232	239	230	212	230	267	295	280	294
	LO	265	250	240	230	220	250	233	220	208	200	190	190	194	200	210	216	219	220	202	210	239	268	260	270
(M3000)F2	MED	295	300	305	315	3075	300	310	345	340	330	325	3175	310	305	310	3175	330	335	330	320	295	290	290	290
	CNT	23	26	25	25	24	25	25	25	26	26	27	28	28	29	28	28	28	27	27	28	26	25	26	24
	UO	310	310	320	330	320	305	320	355	350	335	335	330	320	315	320	325	335	340	340	330	295	300	305	300
	LO	290	295	300	300	300	280	300	335	335	325	320	310	300	300	305	310	320	330	325	305	285	285	285	280
foF1	MED												480	495	475	U 480									
	CNT											4	9	10	12	9	1	1							
foE	MED								210	270	300	330	340	350	350	340	310	270	210						
	CNT								22	19	13	14	19	19	23	21	17	15	8						
h'E	MED								E 120	U 109	107	E 107	105	U 107	U 105	U 1065	U 110	110	U 118						
	CNT			1				1	25	25	25	23	26	26	29	28	27	29	19						
foEs	MED							20	22	28	315	35	36	35	37	36	35	31	245	26	235	23	22	20	18
	CNT	27	28	28	28	25	26	26	26	26	26	27	29	28	29	29	29	30	28	28	28	28	28	27	27

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

TABLE 12

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 335	U 38	U 41	U 38	40	U 38	425	45	45	46	48	50	505	49	505	515	51	465	43	38	U 36	33	U 35
	CNT	14	8	10	7	9	10	13	12	14	16	20	23	24	24	25	26	26	25	26	21	15	14	17	13
	UO	36	36	38	48	42	43	43	45	47	46	49	51	54	54	56	54	55	55	54	48	41	38	37	36
	LO	31	30	36	35	32	34	36	38	42	43	42	43	45	46	48	47	48	48	45	36	31	35	28	30
h'F2	MEO																								
	CNT																								
	UO																								
	LO																								
h'F	MEO																								
	CNT																								
	UO																								
	LO																								
(M3000)F2	MEO	U 290	U 3025	U 295	U 2825	U 2775	U 265	U 290	2875	290	2875	285	285	2875	295	300	2975	305	310	305	305	U 305	U 295	2825	U 2925
	CNT	12	6	7	6	8	9	11	12	12	16	20	23	24	23	25	26	26	24	26	19	15	13	16	10
	UO	300	305	315	290	290	295	295	305	300	300	300	300	310	305	310	310	315	320	320	310	310	310	300	295
	LO	270	285	265	270	270	255	265	250	270	270	265	250	280	280	280	285	290	300	300	300	285	290	280	280
foF1	MEO																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	385	465	395	43	37	37	33	33	35	425										25	31	345	345	33
	CNT	28	28	28	26	28	29	25	24	22	22	25	25	25	24	25	26	26	28	28	28	28	28	30	29

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

TABLE 14

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 42	J 45	46	44	J 445	46	47	44	535	53	52	52	52	52	545	54	54	53	52	50	495	U 48	L 41	U 40
	CNT	12	15	19	21	18	13	15	18	22	22	25	27	30	29	28	31	31	29	30	26	22	21	19	7
	UQ	44	47	48	48	52	48	52	55	56	57	56	56	58	57	58	58	58	55	57	51	56	50	45	44
	LQ	38	42	42	42	42	41	36	43	46	47	45	46	48	48	50	49	50	49	48	48	42	42	42	38
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 2845	U 2925	290	U 300	U 290	U 2925	2875	U 2825	2675	275	2825	280	2775	280	285	285	295	2975	300	3025	305	U 300	U 295	U 300
	CNT	8	12	17	17	16	10	10	16	22	21	24	25	30	29	28	31	31	28	30	26	20	21	18	7
	UQ	300	300	305	300	300	310	290	295	275	285	290	295	295	290	300	295	300	305	310	315	310	315	305	310
	LQ	275	275	275	280	280	275	280	260	260	260	260	265	255	265	270	270	270	280	275	295	290	300	285	285
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	55	49	42	48	47	395	355	38	35	37	345	30							26	29	32	37	335	53
	CNT	31	30	30	30	30	30	30	30	31	30	30	30	31	29	28	31	31	31	31	31	31	31	30	31

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

TABLE 11

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	47	U 47	U 475	U 47	U 47	U 48	U 46	47	49	495	49	49	52	53	52	53	53	53	52	50	50	48	49	U 46
	CNT	21	17	16	15	11	11	11	20	20	22	25	27	26	27	29	30	29	29	29	25	23	26	22	23
	UQ	50	50	50	50	55	52	55	53	56	56	56	56	55	56	56	56	56	56	55	53	52	50	51	50
	LQ	46	45	42	42	45	46	44	41	45	46	46	46	46	47	49	49	51	50	49	47	46	46	47	44
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	300	U 295	U 295	U 290	U 290	U 285	U 260	245	2475	260	255	265	2675	275	275	2725	280	285	285	290	295	300	305	300
	CNT	21	16	12	15	11	11	11	18	20	21	25	27	26	27	29	30	29	28	28	25	21	25	21	19
	UQ	310	310	305	295	300	295	290	265	260	270	280	275	280	290	290	280	290	295	295	300	300	310	310	315
	LQ	290	290	270	285	285	275	260		220	230	235	250	245	255	260	260	270	275	265	280	290	290	290	290
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	59	48	40	42	41	37	30	36	375	40	355	33	38		32				325	31	315	35	38	43
	CNT	29	29	29	29	29	29	28	29	28	30	28	29	29	28	29	30	30	30	30	30	30	29	29	29

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

TABLE 15

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	45	U 45	435	44	U 44	43	45	45	50	49	47	48	49	50	51	505	51	515	49	47	45	435	U 45	U 44
	CNT	19	20	20	17	17	17	11	21	21	22	25	26	26	26	29	30	31	28	30	25	24	26	27	23
	UQ	48	47	45	46	45	48	49	49	52	52	50	50	51	52	53	54	53	55	52	50	48	46	46	46
	LQ	43	41	40	38	40	39	37	42	43	45	43	44	45	46	48	48	48	48	45	44	44	41	41	41
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	300	290	2875	290	U 285	265	265	250	255	265	255	260	260	2675	260	270	275	2775	280	2925	300	295	U 295	U 295
	CNT	18	19	18	17	14	14	10	20	21	22	24	24	26	26	29	30	31	28	29	24	23	24	23	20
	UQ	300	300	305	300	290	275	285	260	270	275	260	270	275	275	270	280	280	290	295	300	310	305	305	310
	LQ	290	285	280	270	270	250	220	225	240	245	235	240	230	245	250	260	260	270	260	280	290	280	285	280
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	485	46	45	41	39	26		43		345											28	33	38	50
	CNT	30	29	31	30	31	29	27	29	31	28	27	30	27	27	29	31	31	30	30	30	30	31	30	31

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

TABLE 16

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 36	U 34	U 335	U 43	39	43	445	455	48	50	535	51	53	55	55	555	54	53	U 53	U 51	U 46	U 47	U 40	U 40
	CNT	7	7	6	3	11	15	14	20	17	23	26	28	27	29	29	26	26	26	28	22	17	9	12	10
	UQ	39	40	36	46	40	46	47	50	54	54	55	56	57	60	60	60	58	57	58	56	53	50	42	44
	LQ	33	31	31	40	36	41	41	44	46	46	47	47	49	50	50	53	51	50	52	45	41	40	37	34
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED					U 2975	295	310	300	290	290	290	290	285	285	285	290	2925	300	300	3025	U 3025	U 295	U 2875	U 2825
	CNT	3	4	4	1	8	13	13	20	14	22	25	26	27	28	27	26	26	26	24	18	10	5	6	6
	UQ					310	310	320	310	305	310	310	300	295	300	300	300	300	310	310	315	310	310	295	285
	LQ					280	290	295	250	275	275	260	255	265	280	270	280	280	290	295	295	300	280	280	270
foF1	MED								380	420	420	430	440	450	440	440	430	420	405						
	CNT							2	6	10	13	23	24	23	25	24	24	16	8	1	1				
foE	MED										300	315	3225	330	320	310	3025	300	290	280	260				
	CNT			1	1		1	1	3	4	11	12	12	15	16	12	16	14	13	7	5	4			
h'E	MED								109	107	105	107	105	105	105	105	105	105	109	E 112	119	E 128			
	CNT			1	1		3	2	9	14	18	19	24	23	25	21	26	25	23	16	13	8	1		
foEs	MED	385	37	34	38	435	445	40	325											D 315	32	37	535	375	38
	CNT	28	28	27	23	24	22	23	24	17	23	25	28	27	30	28	30	30	29	30	29	30	28	22	24

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	50	495	48	44	42	40	50	61	70	715	79	86	93	95	95	D 90	90	85	D 80	77	65	57	52	515
	CNT	28	28	28	29	29	28	28	28	30	28	29	30	28	29	30	28	29	29	30	30	30	30	30	28
	UQ	54	52	52	48	46	44	54	65	72	76	86	95	98	102	101	101	91	88	85	80	69	60	57	56
	LQ	48	46	45	40	35	36	44	59	63	64	75	80	86	88	85	84	83	80	75	70	60	53	48	48
h'F2	MED									U 280	280	310	310	3045	308	300	290	275	255	2475					
	CNT								3	9	19	29	29	30	30	30	28	28	19	6					
	UQ									290	305	320	328	320	320	310	300	280	270	260					
	LQ									265	266	295	290	290	290	290	280	270	250	240					
h'F	MED	E 275	E 270	E 260	E 255	U 258	E 259	240	220	210	200	200	200	200	210	210	210	220	225	240	240	E 220	E 250	E 270	E 280
	CNT	29	29	28	29	29	28	28	28	29	29	29	29	29	29	29	28	27	26	29	30	30	30	30	28
	UQ	295	286	270	260	270	273	242	230	216	210	202	208	210	212	218	220	230	230	240	230	230	260	284	290
	LQ	259	258	238	231	242	242	231	220	200	200	190	190	192	195	200	205	219	220	230	215	210	230	255	260
(M3000)F2	MED	290	295	300	300	290	300	335	335	330	320	310	300	300	300	3075	310	310	320	325	325	3025	290	290	2875
	CNT	27	28	28	28	27	28	28	28	30	27	26	28	26	25	24	18	13	17	14	17	26	28	28	24
	UQ	300	300	320	310	305	310	340	350	335	330	320	310	310	310	310	310	320	330	335	330	310	300	300	290
	LQ	285	285	295	290	290	290	330	330	320	300	300	300	295	300	300	300	305	310	310	310	290	285	280	280
foF1	MED										460	485	490	495	490	470	470								
	CNT									1	5	16	21	26	25	23	14	3							
foE	MED								240	U 290	U 320		350	355	U 3525	U 350	330	310	270	200					
	CNT							4	16	13	8	4	6	8	10	15	14	19	16	6					
h'E	MED								105	100	100	100	100	100	103	U 102	E 109	105	108	E 115					
	CNT							4	24	28	23	26	25	27	27	28	28	28	24	11					
foEs	MED	21							24	O 29	32	D 345	365	O 36	36	365	35	31	29	22	235	20			
	CNT	29	29	28	29	29	28	28	28	30	29	30	30	29	30	30	29	29	30	30	30	30	30	30	28

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

TABLE 18

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 375	U 35			U 275	U 265	U 375	U 455	525	56	60	59	62	69	70	71	61	56	U 55	U 47	U 42	U 47	U 32	
	CNT	4	4	2	2	6	10	16	20	22	23	25	29	30	28	26	26	23	23	23	17	15	6	3	2
	UQ	42	36			31	33	42	48	55	61	66	69	71	75	77	79	71	70	67	51	46	56	36	
	LQ	33	32			23	23	31	41	47	51	54	56	59	61	64	63	56	50	48	42	38	46	31	
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED					U 2875	U 295	3125	U 330	3275	320	3175	315	305	305	315	315	315	315	U 3175	U 300	U 2925	U 300		
	CNT	3	3	2	1	6	9	12	19	20	23	24	29	28	27	25	24	21	23	18	14	8	5	2	1
	UQ					290	310	320	335	335	335	335	330	320	320	325	320	320	325	320	305	310	310		
	LQ					280	290	300	320	315	305	300	300	300	300	310	310	305	305	305	290	280	280		
foF1	MED																								
	CNT											1	4	3	2	1	1								
foE	MED								215	255	265	2875	300	285	2875	2775	260	250	225	290					
	CNT						3	4	7	9	14	14	17	20	20	22	25	21	10	5	3				
h'E	MED								115	115	113	109	109	111	109	112	113	115	U 119	U 119					
	CNT						4	3	7	13	15	15	20	21	24	26	27	26	17	10	3				
foEs	MED	32	315	37	42	42	355	34													295	335	45	425	415
	CNT	26	28	26	26	29	24	20	21	23	25	24	30	29	30	30	29	28	28	29	28	28	30	26	28

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

TABLE 19

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	405	395	34	30	29	35	54	62	695	75	79	80	80	80	785	76	72	745	68	605	56	52	50
	CNT	27	24	24	21	21	22	26	29	30	28	30	29	30	29	27	30	29	30	30	29	30	27	27	27
	UQ	50	46	46	39	37	36	44	62	69	74	81	84	86	92	88	89	88	87	84	74	65	60	57	54
	LQ	33	35	31	28	25	26	30	48	54	60	65	68	74	74	75	72	72	69	68	64	57	50	45	40
h'F2	MED									U 2445	258	2755	280	280	•785	2745	268	259							
	CNT									6	17	24	26	27	28	26	25	11	1						
	UQ									300	273	290	298	295	286	281	278	270							
	LQ									237	250	266	270	273	270	270	260	255							
h'F	MED	U 270	U 271	U 270	U 270	U 269	E 270	245	230	211	202	200	200	200	204	209	210	219	230	230	225	2395	249	259	265
	CNT	31	31	31	31	30	26	30	29	31	28	30	29	30	29	27	30	29	30	30	29	30	31	31	31
	UQ	275	299	285	284	298	300	260	239	222	209	208	204	210	214	217	219	224	238	238	230	249	267	266	273
	LQ	260	260	260	260	260	250	239	223	208	200	199	184	190	198	200	207	210	229	227	220	225	240	252	258
(M3000)F2	MED	290	2925	295	295	295	300	315	345	335	325	325	315	315	320	315	3175	320	3225	320	315	305	300	295	295
	CNT	24	24	23	19	21	19	25	27	30	28	30	29	30	29	27	30	29	30	30	27	29	27	26	26
	UQ	300	305	300	305	310	300	330	350	350	340	330	325	330	325	330	325	325	330	325	320	310	305	305	300
	LQ	280	290	285	285	290	290	305	330	330	310	310	310	300	305	305	310	310	315	315	310	295	290	290	290
foF1	MED											430	435	450	450										
	CNT									2	2	6	6	6	5	4	2								
foE	MED								200	250	300	315	330	335	330	320	300	2725	2275						
	CNT								15	21	13	17	20	22	18	21	26	26	16						
h'E	MED								113	109	109	107	1065	105	108	109	109	110	1165						
	CNT							1	25	30	27	29	26	28	28	27	30	29	26	1					
foEs	MED																								
	CNT	31	31	31	31	30	27	30	28	31	28	30	28	30	29	27	30	29	30	30	29	30	31	31	31

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

TABLE 20

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	53	50	48	45	40	36	36	59	D 715	D 79	84	D 92	97	U 98	95	93	855	D 815	D 80	D 70	D 585	57	U 525	D 50
	CNT	29	28	29	29	27	27	25	30	28	29	29	27	27	24	25	25	28	28	30	30	30	28	28	27
	UQ	56	54	50	50	45	43	46	65	76	86	90	102	107	108	110	104	102	90	85	74	64	59	60	60
	LQ	44	46	42	40	35	31	32	56	65	74	78	81	85	90	89	85	78	77	70	64	55	50	48	46
h'F2	MED										2575	270	280	285	282	279	272	2625	244						
	CNT									1	14	22	27	28	28	28	27	20	14						
	UQ										265	288	290	290	290	290	282	269	250						
	LQ										250	265	276	276	275	272	270	250	238						
h'F	MED	U 250	E 250	E 245	E 2325	E 240	E 250	E 260	227	2145	205	200	205	205	208	210	218	219	224	2235	215	U 222	E 269	U 278	E 264
	CNT	31	31	31	30	31	30	30	30	28	29	29	29	29	28	28	28	30	29	30	30	31	31	31	28
	UQ	275	260	265	249	250	270	272	234	220	212	206	220	214	210	216	230	223	231	230	220	230	290	285	274
	LQ	248	240	232	220	220	230	242	220	210	200	190	188	199	200	205	210	210	220	220	210	215	250	250	253
(M3000)F2	MED	300	310	305	320	310	310	310	340	340	330	320	U 315	320	3075	U 310	320	325	335	U 335	330	305	290	290	300
	CNT	25	25	26	27	25	25	22	30	25	24	22	20	20	16	17	18	17	15	19	23	28	25	22	22
	UQ	310	320	315	335	330	320	320	350	350	340	325	320	320	320	320	330	330	340	340	330	315	300	300	305
	LQ	290	300	300	300	300	295	295	330	330	325	315	310	305	300	310	310	315	335	330	320	290	280	280	290
foF1	MED											450	U 490	490	480										
	CNT										1	5	7	10	11	4	4								
foE	MED								210	U 2675	300	3225	340	350	350	350	330	300	250						
	CNT								17	16	19	12	12	15	17	21	22	23	17	2					
h'E	MED								E 115	105	1045	102	U 105	103	1045	105	1065	106	110	E 124					
	CNT								21	25	28	27	26	26	26	28	28	30	30	5					
foEs	MED										30				36	35	34	315	275	185					
	CNT	30	31	30	30	31	31	30	29	28	29	29	28	28	27	27	27	30	30	30	30	31	31	31	31

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

TABLE

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 275	U 34	U 275	U 36	U 42	U 355	U 20	U 495	43	52	60	66	68	68	68	66	59	55	50	45	37	345	345	U 32
	CNT	2	5	6	5	4	8	11	16	20	25	22	24	25	24	24	24	20	14	11	5	9	5	4	3
	UQ		34	38	46	46	39	32	38	42	56	53	70	78	78	72	70	66	65	61	48	39	40	40	36
	LQ		34	23	36	36	30	23	8	40	46	55	61	62	61	61	61	44	45	35	36	35	31	33	31
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED				U 285			U 2975	310	335	3425	335	325	3275	325	325	335	3225	320	U 3175	U 3075	U 290			
	CNT	1	3	2	5	3	4	8	11	18	24	21	22	24	25	23	23	18	12	6	6	7	3	4	3
	UQ				295			320	330	340	350	350	340	340	340	335	340	340	335	320	320	300			
	LQ				270			290	300	325	330	330	310	310	310	310	320	300	315	310	290	260			
foF1	MED																								
	CNT											1	2		1	3									
foE	MED								150	190	2225	U 220	U 260	265	2675	250	230	210							
	CNT								6	5	6	7	11	18	20	14	15	9	2						
h'E	MED								115		125	U 115	U 119	E 119	119	U 119	U 123	117	115						
	CNT								7	4	7	9	13	18	21	18	21	15	5						
foEs	MED	39	345	36	37	38	34	36	31																
	CNT	25	24	25	25	24	20	21	21	21	25	22	22	26	28	25	27	25	23 27	31 28	37 26	32 27	375 26	375 26	42 25

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

TABLE

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	31	32	315	29	U 275	U 27	265	43	59	70	73	79	87	85	84	87	79	76	70	605	50	42	38	35
	CNT	21	21	22	22	24	23	22	27	27	27	25	28	26	25	25	27	28	27	27	28	24	27	23	23
	UQ	36	34	35	34	33	31	28	47	69	79	84	88	92	89	95	91	86	82	76	65	59	50	43	39
	LQ	28	26	27	25	21	24	25	40	56	60	65	71	78	76	77	78	74	70	66	54	48	36	35	32
h'F2	MED										U 251	250	2575	264	262	255	249	U 238							
	CNT									3	6	14	22	22	17	21	17	7							
	UQ										255	266	280	280	282	262	252	270							
	LQ										249	238	242	255	250	250	240	232							
h'F	MED	U 285	E 289	E 2875	E 290	E 286	E 2695	E 270	239	2285	2135	208	210	205	210	2165	218	229	228	222	227	2345	245	257	270
	CNT	26	27	28	25	24	22	21	27	26	26	25	27	25	24	24	27	28	27	27	28	28	28	27	27
	UQ	300	300	305	308	303	300	300	250	230	221	215	212	211	218	222	220	234	230	230	233	243	256	270	285
	LQ	270	275	277	272	258	250	251	228	220	205	200	200	200	207	204	210	216	220	218	220	230	240	244	250
(M3000)F2	MED	290	290	290	290	2975	300	300	330	340	335	3225	325	320	320	320	330	325	325	320	315	315	310	305	300
	CNT	20	19	21	18	18	20	19	26	26	26	24	26	25	24	24	27	27	26	27	27	24	26	23	23
	UQ	300	300	295	295	305	310	310	340	350	340	340	340	330	330	335	340	335	330	330	325	320	315	315	310
	LQ	290	280	285	280	290	290	295	315	330	330	310	320	300	310	315	320	320	320	315	310	305	300	300	295
foF1	MED											1	1	2	2	3									
	CNT																								
foE	MED									230	2725	300	310	320	3175	300	280	250							
	CNT									9	18	22	21	17	16	20	17	11							
h'E	MED									115	1115	115	111	115	110	110	1125	111							
	CNT								1	15	24	25	26	24	23	23	24	20	4						
foEs	MED																								
	CNT	27	27	28	27	26	24	21	28	27	27	26	28	26	25	25	27	24	27	27	28	28	28	28	28

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

TABLE

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 325	U 30	U 35	U 36	U 40	U 35	U 325	U 27	U 33	50	62	75	86	81	765	U 71	U 53	U 52	U 35	U 32	U 39	U 26	U 375	U 32
	CNT	4	7	3	6	11	11	10	13	17	19	22	22	21	22	24	21	17	13	11	9	10	5	6	3
	UQ	38	34	36	40	44	39	36	34	36	53	68	81	92	90	85	82	70	58	44	45	45	34	48	32
	LQ	31	25	34	33	34	28	29	22	30	44	55	70	79	70	69	56	39	33	32	28	36	26	28	31
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED					U 300	U 3025	U 305	U 305	U 315	340	340	345	340	340	340	3375	U 335	U 320	U 310	U 285	U 3125	U 290		
	CNT	4	3	2	4	9	8	7	8	12	19	22	22	20	21	23	18	15	10	7	5	6	5	3	1
	UQ					305	315	325	320	320	345	350	350	345	345	345	340	345	325	320	300	315	340		
	LQ					290	290	295	290	310	330	325	335	335	330	330	330	305	310	280	270	280	265		
foF1	MED																								
	CNT													1											
foE	MED											230		250	245	235	400								
	CNT									1	4	7	2	6	8	6	11	2							
h'E	MED										U 113	U 131		123	U 122	119	E 133	1							
	CNT										5	7	4	5	8	7	9								
foEs	MED	36	37	36	40	42	38	32	31																
	CNT	27	25	25	26	24	21	17	16	19	20	23	23	23	25	26	26	26	22 26	28 27	32 28	33 27	41 27	355 26	37 27

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

TABLE 24

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	34	35	31	33	D 32	335	D 30	355	60	74	86	88	89	90	90	87	865	76	70	58	44	39	34	325
	CNT	29	27	29	26	24	24	22	30	31	31	30	30	31	30	28	29	30	29	29	27	29	26	27	30
	UQ	38	39	36	36	38	38	38	40	67	89	98	104	105	99	99	98	93	84	76	62	48	42	37	36
	LQ	26	28	26	26	26	25	23	33	55	66	77	86	85	84	84	83	78	71	63	52	36	35	31	28
h'F2	MED											U 245	U 247		U 2465	U 250	U 240								
	CNT										1	7	9		12	8	7	1							
	UQ											270	248		250	260	258								
	LQ											240	238		236	235	237								
h'F	MED	E 300	E 292	E 273	U 268	U 2695	E 2635	U 266	240	220	217	2195	216	210	2105	220	225	220	218	222	230	235	U 260	U 270	E 285
	CNT	30	29	31	29	28	26	25	31	31	31	30	30	31	30	28	29	30	29	29	29	28	28	27	31
	UQ	315	300	300	290	298	300	300	255	230	222	225	224	217	220	224	228	230	222	232	238	248	270	300	310
	LQ	280	270	260	258	258	248	250	235	215	210	210	208	200	202	208	219	217	212	216	216	230	250	260	270
(M3000)F2	MED	295	290	300	300	300	295	305	3175	345	345	340	335	330	325	325	330	335	325	320	320	3125	305	305	295
	CNT	27	26	26	23	22	19	18	28	30	29	29	29	31	30	28	29	29	29	29	27	28	26	26	30
	UQ	300	300	310	315	300	310	315	330	350	355	345	345	345	345	335	340	345	330	330	340	325	315	310	300
	LQ	285	285	290	290	295	290	290	310	340	335	330	330	320	320	315	315	325	320	315	315	310	295	295	290
foF1	MED																								
	CNT																								
foE	MED										U 2525	280	300	305	300	280	250	U 205							
	CNT									2	8	12	18	15	16	9	8	5							
h'E	MED									110	E 119	U 1185	115	115	115	115	115	U 120							
	CNT									5	14	16	23	22	21	16	16	11							
foEs	MED																								
	CNT	31	29	30	30	30	26	26	31	21	26	28	29	31	29	26	25	21	29	29	29	29	28	30	31

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

TABLE 25

PARIS. FRANCE (48.1N. 2.3E) 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	29	31	32	30	29	28	26	27	34	62	80	90	94	92	92	90	84	69	61	48	43	38	32	31
	CNT	19	18	17	18	21	17	20	17	22	25	19	20	24	28	27	29	25	19	23	26	23	19	19	15
	UQ																								
	LQ																								
h'F2	MED											U	U		U	U	U								
	CNT											240	215	225	235	230	225								
	UQ											3	3	7	4	3	1								
	LQ																								
h'F	MED	295	300	318	340	308	290	268	250	250	225	230	230	230	230	230	230	225	220	218	230	238	250	250	290
	CNT	15	16	20	22	21	16	15	13	21	31	29	31	31	30	29	31	31	29	28	27	28	22	16	8
	UQ																								
	LQ																								
(M3000)F2	MED	260	260	260	260	268	270	285	300	290	330	330	330	330	330	330	328	330	325	320	320	310	300	270	280
	CNT	16	15	14	16	18	15	15	14	17	25	13	20	22	26	25	26	21	18	21	24	21	14	14	11
	UQ																								
	LQ																								
foF1	MED														U										
	CNT														340										
															2										
foE	MED	E	E	E	E	E	E	E	E	E									E	E	E	E	E		E
	CNT	2	2	1	2	3	2	3	4	10	190	230	260	275	275	270	240	220	5	3	1	2	1		1
											7	12	19	19	16	19	17	10							
h'E	MED	E	E	E	E	E	E	E	E	E	E	U		U	U	U		E	E	E	E	E	E		E
	CNT	2	2	1	2	3	2	3	4	13	4	120	118	110	110	125	125	2	13	6	4	2	1		1
												3	6	4	4	3	5								
foEs	MED	26	24	E	E	E			G	G	G	G	G					24	30	30	33	31	31	32	U 28
	CNT	6	10	18	22	18	24	21	22	20	18	22	19					16	17	16	11	10	8	7	4
							12	8	7																

SWEEP 1.4 MC TO 17.0 MC. DECEMBER. 1960

TABLE 26

DAKAR, FRENCH W. AFRICA (14.8N, 17.4W) 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	118	131	120	95	78	63	42	40	80	112	134	131	130	140	143	141	140	135	134	140	140	136	128	124
	CNT	15	21	21	14	18	17	19	24	30	30	29	30	29	30	29	30	30	29	25	28	24	16	12	11
	UQ																								
	LQ																								
h'F2	MED										U	U		U	U			U	U						
	CNT										230	250	255	270	308	295	270	255	255						
	UQ										1	9	10	3	2	6	5	1	1						
	LQ																								
h'F	MED	250	250	230	210	202	225	230	240	245	230	220	205	200	200	200	210	225	230	250	252	265	260	235	230
	CNT	31	31	31	30	30	26	26	26	31	29	29	30	30	29	30	29	30	31	31	30	31	31	31	30
	UQ																								
	LQ																								
(M3000)F2	MED	290	315	330	340	335	305	312	300	330	335	330	312	292	275	280	280	270	272	300	270	260	290	U 290	U 285
	CNT	13	16	18	10	13	16	16	19	26	30	29	28	26	29	26	26	25	24	15	23	13	7	7	9
	UQ																								
	LQ																								
foF1	MED											U	U				U								
	CNT											550	550				480								
												1	4				1								
foE	MED	E	E	E	E	E	E	E	E												E	E	E	E	E
	CNT	4	6	8	8	9	14	13	15	205	278	312	350	352	360	350	350	330	290	212	2	14	6	7	5
										23	26	26	27	24	22	21	22	26	28	18					
h'E	MED	E	E	E	E	E	E	E	E	E											E	E	E	E	E
	CNT	4	6	8	8	9	14	13	15	115	105	100	100	100	100	100	105	105	110	110	4	15	6	7	5
										20	28	27	26	19	20	19	20	24	28	14					
foEs	MED	31	29	26	28	29	30	31	31	40	50	45	41	40	42	42	41	38	45	47	42	31	31	31	31
	CNT	29	29	29	31	30	30	31	31	31	30	30	31	30	31	31	31	31	31	31	31	31	31	31	31

SWEEP 1.2 MC TO 17.0 MC. DECEMBER. 1960

TABLE 27

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																	U	U				D	U
	CNT	75	84	74	58	54	45	38	76	92	108	111	110	94	104	107	111	110	110	106	88	87	88	85	65
	UQ	4	7	6	12	21	22	27	21	6	11	13	10	9	6	9	10	5	3	2	7	5	5	1	2
	LQ																								
h'F2	MED														U	U									
	CNT							425							328	320									
	UQ							5							2	1									
	LQ																								
h'F	MED	230	230	230	215	205	210	230	235	220	205	200	200	200	200	205	210	215	235	250	280	260	242	230	240
	CNT	27	25	25	27	29	27	24	29	28	28	29	25	22	24	25	24	23	28	30	28	23	24	24	27
	UQ																								
	LQ																								
(M3000)F2	MED	U	U							U					U				U	U		U	U		U
	CNT	290	305	330	325	330	340	292	332	312	308	275	250	255	270	270	285	300	312	310	245	235	245		325
	UQ	4	4	5	11	21	20	24	16	4	10	9	8	8	4	8	8	5	2	1	5	2	4		1
	LQ																								
foF1	MED														U										
	CNT							180							520										
								5							2										
foE	MED	E	E	E	E	E	E	E												E	E				E
	CNT	1	3	4	7	14	18	20	210	275	325	350	360	365	365	350	335	300	240	9	19				1
									28	21	24	25	20	21	24	21	21	13	9		7				
h'E	MED	E	E	E	E	E	E	E				U	U	U	U			U		E	E				E
	CNT	1	3	4	7	14	18	20	115	105	100	100	100	100	100	100	105	110	112	22	7				1
									18	13	10	4	4	3	2	7	5	4	6						
foEs	MED		E	E	E	E	G																		
	CNT	22	28	23	27	29	29	18	26	39	43	44	43	44	44	43	44	44	42	37	23	20	23	23	22
								26	30	28	30	30	29	30	28	29	29	30	31	26	29	28	27	25	26

SWEEP 1.25 MC TO 20.0 MC. DECEMBER. 1960

TABLE 28

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	104	92	90	88	82	76	81	90	101	109	121	135	147	154	155	145	134	120	120	110	102	116	117	116
	CNT	26	25	23	22	24	25	30	29	31	30	30	29	31	31	31	31	31	31	31	29	30	26	28	23
	UQ																								
	LQ																								
h'F2	MED						U			U									U	U					
	CNT						325	245	240	302	320	450	395	400	350	335	315	295	290	430					
	UQ						1	5	8	2	7	6	14	15	27	27	25	18	3	1					
	LQ																								
h'F	MED	255	252	290	285	275	282	250	235	230	225	225	225	220	225	225	228	230	245	270	320	342	325	300	275
	CNT	28	26	26	25	26	30	28	26	24	24	27	25	25	29	26	25	25	27	25	25	23	27	29	27
	UQ																								
	LQ																								
(M3000)F2	MED	298	275	275	275	275	285	300	300	280	265	260	260	260	270	280	278	275	268	260	255	250	260	275	295
	CNT	24	22	23	21	23	22	30	29	29	29	29	29	30	28	27	30	31	30	31	26	26	26	25	22
	UQ																								
	LQ																								
foF1	MED												U	U		U	U								
	CNT												520	510	530	560	580								
													2	3	5	4	3								
foE	MED	E	E	E	E	E	E														E	E	E	E	E
	CNT	3	8	10	11	14	21	220	290	335	360	370	380	385	390	370	350	325	275	195	13	7	4	5	4
								17	21	19	14	11	9	7	10	17	25	27	24	6					
h'E	MED	E	E	E	E	E	E													E	E	E	E	E	E
	CNT	3	8	10	11	14	24	125	105	100	100	100	100	100	100	100	100	105	110	20	23	7	4	5	4
								16	11	12	16	21	21	24	22	24	24	21	25						
foEs	MED	38	37	30	30	28	31	34	40	58	48	60	54	47	55	40	51	48	35	36	38	36	40	45	40
	CNT	30	23	25	29	28	29	31	29	31	28	26	24	21	19	23	26	28	31	31	29	30	31	28	27

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE. DECEMBER. 1960

TABLE 29

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	71	63	56	50	48	46	60	68	82	82	90	98	107	100	99	88	87	83	83	88	88	76	74	76
	CNT	26	27	26	27	28	28	28	28	22	22	26	26	23	27	25	26	30	30	31	28	28	28	28	24
	UQ																								
	LQ																								
h'F2	MED								450	368	400	390	385	375	370	355	360	360	U 300						
	CNT								7	14	21	25	27	25	30	28	27	17	1						
	UQ																								
	LQ																								
h'F	MED	260	250	265	E 265	E 280	295	255	245	235	230	220	220	235	235	235	235	240	250	280	285	285	285	285	280
	CNT	27	25	26	24	26	24	28	25	28	27	20	15	7	17	19	19	23	26	26	28	26	26	29	30
	UQ																								
	LQ																								
(M3000)F2	MED	288	290	280	275	275	280	292	275	270	255	255	258	260	260	265	265	265	270	265	270	275	275	270	275
	CNT	26	27	26	27	28	27	28	28	22	22	26	26	23	27	25	25	30	30	31	28	28	28	28	24
	UQ																								
	LQ																								
foF1	MED								420	460	480	520	520	U 540	500	500	500	U 500							
	CNT								8	8	11	11	12	2	9	9	7	3							
foE	MED	E	E	E	E	E	E														E	E	E	E	E
	CNT	3	4	8	15	22	28	222 30	290 29	330 27	355 27	370 23	380 24	385 23	380 21	365 26	350 24	310 30	265 29	192 16	17	5	3	1	4
h'E	MED	E	E	E	E	E	E							U	U					E	E	E	E	E	E
	CNT	3	4	8	15	22	29	122 10	120 21	115 27	110 30	110 24	110 13	100 3	110 3	110 12	115 20	120 23	125 19	2	21	5	3	1	4
foEs	MED	21	22	21	20	21	22	26	24	G	G	G	G	G	G	G									
	CNT	31	30	31	31	31	31	29	30	31	30	30	28	27	30	30	31 29	34 31	30 31	30 29	26 29	30 27	26 25	23 20	21 29

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES. — DECEMBER, 1960

TABLE 30

PARIS, FRANCE (48.1N, 2.3E) — 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	32	32	32	31	30	28	25	25	47	69	90	99	108	108	100	107	104	88	66	56	43	36	32	32
	CNT	20	18	17	15	18	18	21	19	24	25	17	21	22	24	26	23	20	21	19	24	24	20	18	15
	UQ																								
	LQ																								
h'F2	MED											U 258	U 275	U 238	230	U 228									
	CNT											2	3	4	5	2									
	UQ																								
	LQ																								
h'F	MED	300	320	330	315	300	275	250	248	242	230	230	230	230	230	230	235	230	220	220	225	235	250	282	300
	CNT	9	12	18	19	19	17	12	9	28	30	30	28	30	29	30	29	30	30	29	28	26	21	10	11
	UQ																								
	LQ																								
(M3000)F2	MED	260	260	265	255	270	280	280	275	310	330	330	320	320	320	310	325	318	320	310	310	310	295	278	265
	CNT	17	16	14	11	15	14	16	13	23	23	15	17	21	22	22	19	16	15	15	22	23	20	16	12
	UQ																								
	LQ																								
foF1	MED												U 400												
	CNT												1												
foE	MED	E	E	E	E		E	E		E										E	E		E		
	CNT	1	1	1	1		1	1		16	220 14	252 18	270 19	290 21	290 21	280 25	260 27	228 20	190 7	5	1		1		
h'E	MED	E	E	E	E		E	E		E			U 110	U 105	U 108	U 110	122	130	150	E	E		E		
	CNT	1	1	1	1		1	1		14	125 9	120 11	3	4	4	3	6	6	7	5	1		1		
foEs	MED	25	22	E	E	E	E		U	G					G	G	G								
	CNT	8	9	17	16	18	5		26 1	10	29 14	28 26	30 26	29 26	25	26	27	24 24	23 23	28 15	29 9	38 8	29 5	32 9	29 8

SWEEP 1.4 MC TO 17.0 MC. — NOVEMBER, 1960

TABLE 31

GENOA (MONTE CAPELLINO), ITALY (44.6N, 9.0E) — 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	37	38	38	39	37	33	30	41	79	96	106	116	120	117	113	108	104	89	73	66	52	37	36	36
	CNT	29	28	26	28	28	26	26	28	29	29	29	30	30	30	29	29	30	30	30	30	30	28	29	30
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	325	320	310	300	290	250	265	250	235	230	235	230	230	230	235	240	235	225	225	235	235	255	290	300
	CNT	30	28	28	28	28	29	28	29	29	29	29	30	29	29	30	29	30	30	30	30	28	27	29	30
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								150	200	240	280	300	310	310	290	260	220	160						
	CNT								7	29	29	29	28	28	27	26	26	26	5						
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E	G	G				G	G	G					E	E	E	E	E
	CNT	30	30	30	30	30	30	30	29	29	27 29	30 30	30 30	29	29	29	28 29	27 30	21 30	23 30	30	30	30	30	30

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES, AUTOMATIC OPERATION. — NOVEMBER, 1960

TABLE 32

DAKAR, FRENCH W. AFRICA (14.8N, 17.4W) — 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	168	160	133	103	70	54	47	53	96	125	145	159	158	150	146	146	144	148	144	144	Q 145	D 0	D 0	0
	CNT	23	17	18	13	13	18	21	22	28	29	30	29	30	23	27	27	22	23	15	22	14	5	7	14
	UQ																								
	LQ																								
h'F2	MED										U 258	U 270	U 255	U 255			U 295								
	CNT										2	3	4	1			1								
	UQ																								
	LQ																								
h'F	MED	230	228	215	210	210	222	238	245	245	230	220	210	205	205	205	205	225	235	250	275	305	255	232	240
	CNT	29	30	28	29	29	28	25	26	29	30	30	26	28	28	27	27	27	28	28	29	28	24	28	29
	UQ																								
	LQ																								
(M3000)F2	MED	315	320	338	330	320	305	320	305	330	330	325	310	288	270	255	262	265	260	270	270	U 268	U 275	U 290	U 310
	CNT	9	12	14	10	9	15	20	21	27	29	27	23	22	18	23	20	15	12	10	17	4	1	3	3
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED	E	E	E	E	E	E	E	E	235	298	332	350	370	370	362	350	320	280	220		E	E	E	E
	CNT	6	6	8	9	14	19	18	17	25	28	28	23	21	19	18	20	19	22	15		9	6	5	5
h'E	MED	E	E	E	E	E	E	E	E	110	105	105	100	100	100	105	105	105	115	118	E	E	E	E	E
	CNT	6	6	8	9	14	19	18	22	22	25	23	19	20	19	15	20	18	19	10	8	11	6	5	5
foEs	MED	30	30	30	28	28	28	30	30	39	32	34	40	40	40	39	37	41	49	46	43	31	31	31	31
	CNT	26	29	28	29	29	29	28	28	29	30	30	28	29	29	29	28	27	28	28	29	29	29	30	28

SWEEP 1.2 MC TO 17.0 MC. — NOVEMBER, 1960

TABLE 33

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	U 87	U 78	81	64	55	46	50	83	U 127	124	121	119	130	U 130	128	0 130			U 91	U 79	U 91	U 83	U 84	
	CNT	3	3	8	17	19	25	25	15	3	8	8	11	9	4	5	2			2	1	1	1	2	
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	205	200	200	200	200	200	230	225	210	200	200	200	200	200	200	200	215	230	265	295	270	242	230	225
	CNT	21	20	21	19	18	17	18	21	24	21	19	20	16	16	17	22	20	19	22	8	5	6	11	17
	UQ																								
	LQ																								
(M3000)F2	MED	U 315	U 330	330	325	330	332	310	325	U 310	275	260	255	258	U 275	U 245							U 240	U 280	
	CNT	1	3	5	13	17	18	19	8	2	6	5	7	6	3	2							1	1	
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED			E	E	E	E	E		232	292	332	350	365	368	365	350	320	280	U 225	E	E			
	CNT			3	6	6	10	25	22	28	22	18	19	20	20	21	20	11	4	22	1				
h'E	MED			E	E	E	E	E	U 118	U 105	U 100		U 100	U 100	U 100	U 100	U 100	U 108	U 115	E	E				
	CNT			3	6	6	10	26	4	3	1		2	1	4	3	1	2	1	26	1				
foEs	MED	30	28	22	22	23	26	30	40	42	64	65	66	64	65	60	60	55	47	38	31	30	31	35	31
	CNT	29	28	28	28	28	28	28	26	29	29	28	29	29	29	28	27	29	29	29	28	29	29	29	29

SWEEP 1.25 MC TO 20.0 MC. NOVEMBER, 1960

TABLE 34

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	115	88	85	83	82	84	100	110	114	124	133	148	158	159	160	160	150	143	140	120	126	124	137	140
	CNT	28	29	27	28	27	24	28	29	28	29	28	29	29	29	28	30	29	30	30	29	28	29	29	27
	UQ																								
	LQ																								
h'F2	MED						U 350	U 270	242	270	275	U 275	362	335	355	360	335	U 300	U 320						
	CNT						2	2	8	6	5	3	6	10	11	9	10	3	2						
	UQ																								
	LQ																								
h'F	MED	240	242	275	295	280	285	242	235	230	225	230	238	238	225	230	225	230	250	280	312	340	308	280	250
	CNT	27	28	25	27	26	25	26	26	24	21	25	22	22	27	26	27	23	26	27	22	28	27	28	27
	UQ																								
	LQ																								
(M3000)F2	MED	320	280	270	270	270	285	300	312	295	285	275	270	275	272	275	280	280	280	270	260	255	272	295	305
	CNT	27	28	26	28	25	24	27	28	27	29	27	26	24	20	22	27	26	27	30	27	24	26	23	25
	UQ																								
	LQ																								
foF1	MED												U 640	U 520											
	CNT												2	1											
foE	MED	E	E	E	E	E	E	230	290	335	360	U 370	U 400	U 400	390	U 380	350	315	260	U 155	E	E	E	E	E
	CNT	1	4	12	12	9	16	19	23	24	22	12	6	10	6	21	26	25	21	3	12	4	4	5	2
h'E	MED	E	E	E	E	E	E	115	105	100	100	100	100	100	100	100	105	105	110	E	E	E	E	E	E
	CNT	1	4	12	12	9	22	21	17	17	20	20	15	17	19	22	26	28	24	19	17	4	4	5	2
foEs	MED	36	35	32	31	31	31	32	60	66	46	55	50	66	50	24	31	38	40	35	41	39	37	37	36
	CNT	26	26	26	21	26	26	28	29	28	20	21	18	16	14	18	27	27	29	30	29	29	29	29	26

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE. NOVEMBER, 1960

TABLE 35

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	76	67	67	61	52	52	71	79	91	96	105	110	115	111	113	109	109	110	108	U 104	100	94	U 88	U 80
	CNT	20	19	22	23	22	30	29	24	24	25	23	26	25	25	24	27	29	29	30	29	27	28	25	14
	UQ																								
	LQ																								
h'F2	MED						U 425	U 395	330	335	330	340	335	340	350	352	348	312	U 315						
	CNT						1	1	9	11	12	15	13	18	18	16	16	12	3						
	UQ																								
	LQ																								
h'F	MED	250	250	E 258	E 255	250	275	245	240	230	230	230	222	220	240	235	235	245	255	260	275	262	275	275	270
	CNT	27	23	24	25	27	29	27	19	21	25	23	16	14	12	19	21	21	19	25	17	14	18	22	27
	UQ																								
	LQ																								
(M3000)F2	MED	290	280	285	285	290	290	310	300	292	280	270	270	270	270	270	270	270	280	280	U 280	275	278	U 280	U 285
	CNT	20	18	22	23	22	30	29	24	24	25	23	26	25	25	24	27	29	29	30	29	27	28	25	14
	UQ																								
	LQ																								
foF1	MED							U 350	U 400	U 420	U 480	U 530	U 540		U 570	U 500	U 480	U 440	U 400						
	CNT							1	3	1	3	4	1		2	1	3	2	1						
foE	MED	E	E	E	E	E	E	225	275	U 310	350	370	375	380	370	360	340	305	245		E	E	E	E	E
	CNT	7	9	15	23	28	29	29	21	15	24	19	11	14	24	24	29	30	26		1	1	4	6	7
h'E	MED	E	E	E	E	E	E	125	125	125	120	115	110	105	110	110	115	120	125		E	E	E	E	E
	CNT	7	9	15	23	28	30	8	17	16	21	19	12	7	10	16	19	19	16	6	4	2	4	6	7
foEs	MED	20	20	17	17	17	27	20	G	C	G	G	G	G	G		26	35	33	31	28	28	30	27	22
	CNT	30	30	30	29	30	29	29	11	16	28	25	22	22	25		26	30	29	21	20	18	15	20	30

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES. NOVEMBER, 1960

TABLE 36

PARIS. FRANCE (48.1N. 2.3E) 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	40	45	46	43	45	38	35	40	64	68	93	108	107	108	103	106	104	98	82	78	65	55	48	43
	CNT	21	20	23	22	19	21	21	20	16	16	20	17	14	16	19	20	20	19	11	11	15	19	20	19
	UQ																								
	LQ																								
h'F2	MED										U 442	U 382	U 270	U 225	U 260	U 260	U 245								
	CNT										2	4	3	1	4	3	1								
	UQ																								
	LQ																								
h'F	MED	295	300	300	295	280	260	240	250	228	225	220	212	210	212	215	220	230	225	220	215	225	215	250	260
	CNT	15	20	23	23	22	22	16	27	24	25	26	22	25	25	28	27	28	27	28	28	23	17	18	18
	UQ																								
	LQ																								
(M3000)F2	MED	260	265	260	270	275	280	292	310	320	325	320	320	315	322	310	320	325	330	305	318	310	300	280	270
	CNT	16	16	20	21	16	18	18	18	14	17	17	14	13	14	15	18	17	15	6	10	12	15	15	13
	UQ																								
	LQ																								
foF1	MED									U 330	U 380	U 380	U 430	U 450	U 430	U 460	U 360								
	CNT									1	1	4	3	2	1	1	2								
foE	MED	E	E	E	E	E	E	E	E											E	E	E			
	CNT	1	5	5	6	5	6	7	10	195 14	258 22	290 24	305 22	320 22	320 14	300 17	290 18	270 21	230 15	6	5	1			
h'E	MED	E	E	E	E	E	E	E	E											E	E	E			
	CNT	1	5	5	6	5	7	10	17	115 6	110 19	105 22	100 17	100 19	100 15	108 16	110 17	110 16	110 11	4	5	1			
foEs	MED	24	E	E	E	E	E	24	27	22	28	35	37	38	36	34	32	28	31	32	32	33	35	35	32
	CNT	7	10	20	21	20	22	15	17	18	27	30	27	26	25	28	28	27	28	26	19	17	11	14	10

SWEEP 1.4 MC TO 17.0 MC. OCTOBER, 1960

TABLE 38

DAKAR, FRENCH W. AFRICA (14.8N, 17.4W) 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	139	134	140	127	88	59	45	63	98	116	132	143	146	150	156	157	155	U 150	143	145	147	U 132	U 142	U 140
	CNT	11	10	18	17	18	14	17	23	26	27	27	29	28	27	26	26	27	27	19	22	8	5	7	7
	UQ																								
	LQ																								
h'F2	MED										U 245		U 265	U 255	U 280	U 295	U 335	U 350							
	CNT										1		3	1	3	1	1	1							
	UQ																								
	LQ																								
h'F	MED	255	245	240	225	220	228	230	250	235	230	220	208	202	202	205	218	220	235	250	285	342	272	250	250
	CNT	31	29	31	30	31	28	28	31	29	28	27	28	26	28	29	28	30	31	29	29	26	26	23	31
	UQ																								
	LQ																								
(M3000)F2	MED	285	295	U 318	330	318	310	310	320	338	335	315	300	280	U 260	260	260	270	U 260	252	260	U 252	U 290	U 280	U 285
	CNT	6	7	12	15	14	13	17	22	26	27	27	25	23	20	17	14	14	18	10	11	6	4	5	5
	UQ																								
	LQ																								
foF1	MED														U 520	U 520									
	CNT														1	1									
foE	MED	E	E	E	E	E	E	E	E					U 390	U 398	375	U 350	340	295	232	E	E	E	E	E
	CNT	5	6	8	6	8	12	20	14	240 25	300 27	345 22	360 17	11	12	12	23	25	23	18	4	10	9	6	3
h'E	MED	E	E	E	E	E	E	E	E												E	E	E	E	E
	CNT	5	6	8	6	8	12	20	18	105 23	100 20	100 19	100 17	100 19	100 20	100 23	100 27	105 25	105 21	115 13	12	10	9	6	3
foEs	MED	26	30	30	27	26	26	26	31	39	32	32	38	37	34	32	36	38	39	38	45	31	30	31	31
	CNT	28	30	31	30	31	29	30	31	29	28	27	28	24	24	26	30	30	31	30	27	28	22	26	25

SWEEP 1.2 MC TO 17.0 MC. OCTOBER, 1960

TABLE 39

QJIBQUTI, FRENCH SOMALILANQ (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			85	72	67	55	58	85	112	130	116	117	124	130	135	D 140			D 87	U 85	U 87			
	CNT			6	13	16	21	20	7	6	13	8	14	16	13	12	8			1	2	2			
	UQ																								
	LQ																								
h'F2	MED											U 315													
	CNT											1													
	UQ																								
	LQ																								
h'F	MED	225	218	210	230	230	225	240	230	220	215	200	200	205	200	205	210	220	240	275	298	275	240	235	235
	CNT	21	24	23	23	22	21	25	28	28	25	23	23	23	23	21	23	28	25	27	12	6	11	18	16
	UQ																								
	LQ																								
(M3000)F2	MED			U 332	310	320	330	320	325	310	282	248	250	250	245	258	U 255					U 235			
	CNT			4	7	12	21	19	6	5	10	6	10	14	11	6	2					1			
	UQ																								
	LQ																								
foF1	MED											U 560													
	CNT											2													
foE	MED				E	E	E	E											U 248	E	E				
	CNT				3	3	6	23	245 27	305 29	340 26	360 20	378 14	378 16	380 16	360 17	335 15	305 11	4	15	2				
h'E	MED				E	E	E	E			U 100									E	E				
	CNT				3	3	6	27	115 7	110 6	1									20	4				
foEs	MED	38	35	33	32	30	35	36	40	47	67	70	74	80	67	70	70	70	56	41	22	20	22	35	38
	CNT	27	29	29	30	29	29	28	29	29	31	28	30	29	29	28	28	28	28	28	29	28	30	29	29

SWEEP 1.25 MC TO 20.0 MC. OCTOBER, 1960

TABLE 40

TAHITI, SOCIETY IS. (17.75, 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	119	94	83	80	80	80	96	111	120	128	135	147	151	146	146	145	145	143	145	143	150	148	141	135
	CNT	29	27	27	25	26	26	29	30	28	30	31	30	31	31	30	31	31	31	31	30	30	28	27	31
	UQ																								
	LQ																								
h'F2	MED							U 245										U 312							
	CNT							3	7	6	7	5	6	6	8	11	9	2							
	UQ																								
	LQ																								
h'F	MED	250	225	252	290	272	258	245	235	225	225	230	228	232	235	235	235	245	250	280	285	280	275	265	260
	CNT	30	31	28	29	30	28	30	30	30	27	26	24	26	26	29	31	29	30	30	29	30	30	29	31
	UQ																								
	LQ																								
(M3000)F2	MED	305	298	275	272	280	295	318	322	315	305	290	280	285	285	280	282	282	285	285	275	275	280	290	295
	CNT	27	24	26	24	24	24	26	26	25	28	28	29	26	23	24	26	26	26	23	24	19	20	22	24
	UQ																								
	LQ																								
foF1	MED												U 550												
	CNT												1												
foE	MED	E	E	E	E	E	E						U 400	U 400	U 400	372	350	310	245	E	E	E	E	E	E
	CNT	5	10	15	16	17	22	200 25	290 30	330 31	360 25	375 19	15	14	15	18	26	28	23	4	13	9	11	6	12
h'E	MED	E	E	E	E	E	E													E	E	E	E	E	E
	CNT	5	10	15	16	18	23	120 24	105 26	105 25	100 28	100 27	100 21	100 21	100 21	100 23	105 27	110 27	115 26	21	15	9	11	6	12
foEs	MED	29	30	28	28	26	26	31	34	39	55	47	53	60	52	38	37	34	34	34	35	31	31	31	30
	CNT	25	23	21	21	24	23	28	30	29	29	23	20	15	16	24	29	29	31	30	29	28	26	25	26

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE. OCTOBER, 1960

TABLE 41

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	75	64	58	47	48	46	71	92	104	112	114	113	118	120	119	119	116	114	112	105	101	92	82	80
	CNT	25	26	28	29	28	29	29	29	27	28	29	27	26	28	26	29	28	28	29	29	29	28	26	26
	UQ																								
	LQ																								
h'F2	MED						U	U	U									U	U						
	CNT						455	300	265	280	280	285	302	302	315	315	320	295	250						
	UQ						1	1	4	13	17	17	16	16	12	12	5	4	3						
	LQ																								
h'F	MED	245	235	270	325	E	300	245	240	230	225	220	220	220	230	225	235	240	250	250	250	250	260	265	E 260
	CNT	28	27	25	24	22	28	28	28	24	26	25	24	22	22	21	21	22	27	27	28	28	26	28	28
	UQ																								
	LQ																								
(M3000)F2	MED	300	298	290	280	280	280	315	310	305	295	290	275	275	272	275	275	280	282	290	295	290	286	288	290
	CNT	25	26	28	29	28	29	29	29	27	28	29	27	26	28	26	29	28	28	29	29	29	28	26	26
	UQ																								
	LQ																								
foF1	MED						U	U		U	U	U	U	U											
	CNT						150	290		440	460	520	530	550											
							1	1		2	2	2	1	1											
foE	MED	E	E	E	E	E	E			308	350	360	370	375	360	350	335	295	220	190	E	E	E	E	E
	CNT	16	19	23	27	27	29	205 27	275 28	20	24	25	24	21	25	26	29	29	27	5	17	14	12	8	10
h'E	MED	E	E	E	E	E	E	E		118	110	110	110	105	108	110	115	120	125	E	E	E	E	E	E
	CNT	16	19	23	27	27	29	12	125 5	8	10	18	17	19	20	22	23	26	21	23	17	14	12	8	10
foEs	MED	21	18	22	20	20	19	30	G 26	G		G	G	G	U			34	29	26	26	24	24	23	22
	CNT	28	28	29	29	29	29	29	15	27	32	26	27	27	27	31	38	29	28	22	26	25	24	23	29

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES. OCTOBER, 1960

TABLE 42

PARIS, FRANCE (48.1N, 2.3E) 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	57	52	50	50	46	45	42	53	66	70	80	90	91	92	98	95	90	90	92	90	84	70	65	61
	CNT	28	28	27	26	25	22	24	26	27	25	24	28	27	27	29	26	27	26	22	16	14	16	25	25
	UQ																								
	LQ																								
h'F2	MED								U	U	G		U					U							
	CNT								358	372		370	312	495	355	450	340	250							
	UQ							1	2	2	2	5	4	5	5	1	1	1							
	LQ																								
h'F	MED	300	300	320	312	300	300	275	250	242	235	230	215	220	220	225	235	235	248	250	250	245	245	250	270
	CNT	26	25	26	28	26	25	26	27	28	27	27	25	25	26	27	26	27	28	28	30	29	28	29	27
	UQ																								
	LQ																								
(M3000)F2	MED	258	255	250	250	255	270	280	305	305	302	310	300	285	290	290	285	295	290	295	290	290	290	280	270
	CNT	26	25	26	27	21	20	25	25	22	24	24	23	26	25	26	25	25	25	17	13	8	13	21	24
	UQ																								
	LQ																								
foF1	MED							U	U	U	U		U	U	U	U	U								
	CNT							320	340	380	400	460	470	470	490	480	450								
								1	1	3	3	6	4	4	3	2	1								
foE	MED			E		E	E	E		260	298	330	345	350	358	350	340	320	290	245	E	E	E	E	
	CNT			1		1	6	17	180 18	23	26	27	24	22	24	23	23	24	27	23	7	4	1	1	
h'E	MED			E		E	E	E	E	120	115	110	105	105	100	105	110	115	115	120	E	E	E	E	
	CNT			1		1	6	17	12	22	23	27	23	23	23	23	20	23	27	19	13	3	1	1	
foEs	MED	28	25	22	23	26	24	26	24	29	33	34	37	38	36	35	24	32	31	28	27	28	25	27	32
	CNT	8	5	8	6	11	13	16	20	27	30	29	28	28	28	29	29	28	30	29	25	17	13	13	12

SWEEP 1.4 MC TO 17.0 MC. SEPTEMBER, 1960

TABLE 43

GENOA (MONTE CAPELLINO), ITALY (44.6N, 9.0E) 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	64	62	58	55	54	50	50	69	80	83	95	93	96	97	100	96	97	98	104	96	82	76	67	65
	CNT	27	27	27	27	27	27	26	26	27	28	29	29	28	28	28	28	28	28	28	28	28	27	27	27
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ	295	300	300	295	285	270	255	235	225	220	215	215	220	220	220	225	235	240	250	240	240	245	255	285
	CNT	26	27	26	27	27	26	25	25	27	27	27	27	26	26	27	28	28	27	27	28	27	26	26	26
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								220	280	320	340	360	370	360	350	340	320	270	210					
	CNT								26	25	25	29	28	27	25	27	26	28	25	19					
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES, AUTOMATIC OPERATION. SEPTEMBER, 1960

TABLE 44

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	60	555	49	47	395	38	555	73	82	875	92	93	96	98	98	955	90	94	94	88	78	685	66	63
	CNT	26	26	27	23	24	21	26	28	28	28	27	28	28	29	29	28	28	29	29	29	28	28	28	26
	UQ	65	61	58	56	50	46	62	80	91	98	102	101	104	102	102	100	98	99	98	92	80	76	72	67
	LQ	52	50	39	39	30	32	51	64	71	72	78	80	84	84	84	84	85	84	83	73	68	60	58	53
h'F2	MED									310	310	295	U 335	350	350	U 331	U 433	U 315							
	CNT								1	10	14	13	9	13	15	9	5	5	3						
	UQ									600	443	633	640	454	515	468	606	540							
	LQ									255	271	286	280	302	288	296	305	294							
h'F	MED	U 277	280	285	2785	E 294	E 280	2545	2355	2225	220	210	210	210	214	220	223	232	240	247	240	2485	261	270	280
	CNT	27	28	29	26	28	27	26	28	28	28	27	28	28	29	29	28	28	29	29	29	28	26	28	28
	UQ	310	310	305	302	305	300	270	250	442	230	222	232	232	238	236	235	242	253	270	262	262	276	300	310
	LQ	260	260	259	265	270	260	235	228	218	210	205	200	200	206	210	218	220	236	232	228	237	249	262	264
(M3000)F2	MED	270	2675	265	2675	260	270	300	3075	305	300	285	2825	2775	280	280	285	2875	290	290	285	2775	2675	265	265
	CNT	25	24	25	22	21	17	25	28	28	28	27	28	28	29	29	28	28	29	29	29	28	28	27	25
	UQ	280	280	270	280	285	290	320	320	320	315	300	290	290	290	290	290	295	295	300	300	290	280	280	275
	LQ	260	255	260	260	260	260	290	295	290	280	275	270	265	260	260	270	270	270	280	270	270	260	260	255
foF1	MED											460		480	495										
	CNT								3	4	4	5	4	5	6	4	3	2	2						
foE	MED								270	320	350	360	375	380	375	360	340	300	2575						
	CNT							2	19	24	23	21	20	18	17	24	24	15	12	1					
h'E	MED							U 121	119	115	115	115	115	114	115	113	112	115	1195						
	CNT							10	23	28	28	27	28	28	29	29	27	23	22	2					
foEs	MED	27	28	29	28	28	27	28	24	28	28	27	28	28	29	29	28	27	25	29	29	29	27	28	28
	CNT																								

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

TABLE 45

DAKAR, FRENCH W. AFRICA (14.8N, 17.4W) 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	73	76	U 74	83	80	64	54	64	92	107	121	132	137	142	147	D 150	D 145	D	D	D 133	U 135	121	96	77
	CNT	7	10	7	11	15	20	21	24	29	29	24	27	24	26	25	25	19	13	10	14	17	8	5	6
	UQ																								
	LQ																								
h'F2	MED									U 225	U 235	U 290	U 260	U 410	U 312	U 365	U 360	U 350	U 338	U 265					
	CNT									1	2	1	3	2	2	1	1	2	2	1					
	UQ																								
	LQ																								
h'F	MED	325	300	270	245	225	230	235	240	230	220	210	202	200	200	200	202	210	225	245	260	350	340	350	345
	CNT	30	29	30	29	29	29	29	29	29	29	29	26	23	25	25	26	24	24	29	29	29	23	24	25
	UQ																								
	LQ																								
(M3000)F2	MEQ	U 255	260	U 295	318	300	305	300	312	330	315	295	290	280	275	265	255	265	U 290	U 280	U 278	U 250	245	U 240	250
	CNT	5	5	5	8	9	18	20	20	28	28	29	25	21	17	16	9	8	3	2	4	11	5	3	6
	UQ																								
	LQ																								
foF1	MEQ											U 470	U 520	U 580	U 570	U 540	U 550	U 550							
	CNT											1	1	1	1	1	1	1							
foE	MEQ	E		E	E	E	E	E	E	258	312	350	382	400	400	400	390	360	325	268	U 180	E	E	E	
	CNT	1		2	4	8	16	21	6	28	20	21	16	14	17	18	20	23	23	26	7	17	9	3	
h'E	MEQ	E		E	E	E	E	E	E	105	100	100	100	100	100	100	100	105	105	110		E	E	E	
	CNT	1		2	4	8	16	21	4	22	13	15	14	12	13	12	14	20	22	21		17	9	3	
foEs	MED	30	30	26	25	30	26	28	30	45	50	44	46	44	45	40	41	40	46	46	38	28	29	30	29
	CNT	20	19	21	28	27	27	27	28	29	29	28	26	25	27	25	26	26	26	28	28	24	20	17	24

SWEEP 1.2 MC TO 17.0 MC. SEPTEMBER, 1960

TABLE 46

DJIBOUTI, FRENCH SOMALILAND (11.6N, 43.2E) TIME 45.0

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 68	65	65	58	61	U 84	112	126	130	129	113	128	122	D 132	U 130							
	CNT			1	7	11	16	11	1	8	11	16	12	11	12	8	9	1							
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	270	230	215	225	210	210	230	225	210	205	200	200	200	200	200	205	210	225	260	272	U 250	U 240	290	U 262
	CNT	5	12	17	16	17	18	28	25	26	25	22	17	16	15	23	21	23	29	29	10	3	3	5	4
	UQ																								
	LQ																								
(M3000)F2	MEQ			U 260	U 302	315	340	330		305	280	260	235	232	242	235	U 240	U 225							
	CNT			1	4	7	14	7		5	11	10	6	10	8	7	4	1			2				
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MEQ				E	E	E	E	258	315	350	375	390	390	392	380	355	330	U 275	145	E				
	CNT				1	1	2	24	24	24	22	16	10	7	8	11	13	5	3	13	2				
h'E	MEQ				E	E	E	E	110	U 100	U 100		U 100		U 100	U 100	U 100		U 120	E	E				
	CNT				1	1	2	27	11	2	1		1		2	1	1		2	15	2				
foEs	MED	36	34	35	35	35	35	35	42	54	65	75	80	78	80	70	66	63	44	40	22	E	19	22	36
	CNT	30	30	30	30	30	30	30	29	30	30	30	29	30	29	30	30	29	30	30	30	30	29	30	30

SWEEP 1.25 MC TO 20.0 MC. SEPTEMBER, 1960

TABLE 47

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	114	93	81	74	72	70	84	115	130	139	145	140	136	134	136	138	140	145	150	155	D	D	165	148
	CNT	24	21	22	22	23	22	23	24	26	28	29	29	30	30	30	30	29	30	29	30	27	26	29	27
	UQ																								
	LQ																								
h'F2	MED							U 280	250	245	258	268	270	288	315	365	390	395							
	CNT							3	6	10	12	16	10	10	8	14	5	5							
	UQ																								
	LQ																								
h'F	MED	220	230	240	275	272	265	275	245	230	220	220	220	205	205	240	220	240	250	295	300	270	240	238	225
	CNT	30	28	29	29	26	27	28	29	27	28	28	27	27	24	25	21	24	27	30	30	29	30	30	28
	UQ																								
	LQ																								
(M3000)F2	MEQ	312	298	288	280	290	298	285	320	315	310	300	292	280	270	265	265	270	272	275	270	275	290	300	315
	CNT	20	20	20	22	21	20	21	22	22	26	28	28	28	29	28	28	24	22	21	19	7	9	15	14
	UQ																								
	LQ																								
foF1	MEQ												U 520		U 520										
	CNT												2		2										
foE	MEQ	E	E	E	E	E	E	160	280	330	368	380	U 400	U 400	U 380	365	350	320	250	E	E	E	E	E	E
	CNT	6	13	20	16	13	15	17	28	28	26	16	9	9	10	16	20	18	19	5	14	7	7	7	5
h'E	MEQ	E	E	E	E	E	E	E	115	105	100	100	100	100	100	100	105	110	125	E	E	E	E	E	E
	CNT	6	13	20	16	13	15	25	27	27	27	27	26	27	28	25	22	25	19	27	15	7	7	7	5
foEs	MED	24	26	22	22	22	26	29	31	31	G	31	45	40	46	45	40	36	31	31	31	30	28	26	24
	CNT	29	28	28	28	26	27	27	28	29	26	23	19	23	21	26	25	27	30	30	30	28	29	30	27

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE. SEPTEMBER, 1960

TABLE 48

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	74	60	47	44	42	40	67	92	106	116	120	118	115	114	114	112	109	108	105	104	94	88	86	77
	CNT	29	28	27	29	29	29	30	30	30	30	30	30	29	30	29	30	29	30	29	29	30	30	29	29
	UQ																								
	LQ																								
h'F2	MED								U 250	260	272	275	278	285	288	U 342	U 300								
	CNT								2	9	14	16	16	8	6	4	3								
	UQ																								
	LQ																								
h'F	MED	230	228	E	E	E	F	240	240	230	220	215	210	210	200	222	230	235	245	242	250	242	240	245	238
	CNT	28	28	25	26	25	27	30	30	30	29	29	24	19	20	20	21	25	29	30	30	30	30	30	30
	UQ																								
	LQ																								
(M3000)F2	MED	320	320	290	280	285	290	320	330	315	308	300	292	280	272	275	278	280	280	290	295	300	300	305	315
	CNT	29	28	27	29	29	29	30	30	30	30	30	30	29	30	29	30	29	30	28	29	30	29	29	29
	UQ																								
	LQ																								
foF1	MED													U 520	U 510			U 330							
	CNT													1	1			1							
foE	MED	E	E	E	E	E	E	165	265	U 315	350	362	375	382	370	350	340	302	230	E	E	E	E	E	E
	CNT	19	19	23	25	26	29	25	30	29	28	30	26	24	22	25	30	28	29	27	25	20	17	15	15
h'E	MEQ	E	E	E	E	E	E	E	125	118	110	110	105	105	105	110	115	120	130	E	E	E	E	E	E
	CNT	19	19	23	25	26	29	23	18	18	15	19	22	25	28	28	24	27	25	30	25	20	17	15	15
foEs	MED	16	19	18	18	18	20	29	G	G	G	G		37	42	41	37	35	27	21	21	22	22	22	17
	CNT	30	29	30	30	29	30	28	25	29	29	30	28	29	30	30	30	29	29	26	22	18	12	12	29

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES. SEPTEMBER, 1960

TABLE 4

PARIS, FRANCE (48.1N, 2.3E)

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	62	60	57	51	50	48	50	60	65	69	75	75	77	76	77	76	74	75	77	82	U 84	69	67	66
	CNT	22	21	24	24	26	24	25	23	23	22	21	21	23	24	23	23	24	25	19	16	12	8	15	18
	UQ																								
	LQ																								
h'F2	MED							U 500	U 390	270	300	315	305	330	330	325	338	330	312	290	U 275				
	CNT							1	3	4	12	13	12	15	13	14	12	9	6	5	2				
	UQ																								
	LQ																								
h'F	MED	292	310	298	310	300	298	270	250	235	230	215	210	205	215	218	225	232	240	245	260	260	250	250	270
	CNT	28	26	28	30	30	30	27	25	21	16	15	21	15	14	22	19	18	20	22	26	29	27	30	30
	UQ																								
	LQ																								
(M3000)F2	MED	270	270	260	258	262	270	290	298	290	300	290	295	300	285	295	288	290	290	290	300	U 290	290	280	272
	CNT	19	18	22	22	24	21	22	22	18	18	19	18	21	21	21	22	23	23	15	13	9	5	8	16
	UQ																								
	LQ																								
foF1	MED								U 350	U 390	450	470	U 440	520	520	520	500	500	U 480	L 430					
	CNT								3	2	7	5	4	6	7	8	6	5	2	1					
foE	MED	E	E	E	E	E	E	E		230	280	315	330	345	350	355	362	350	345	322	290	225	E	E	E	E
	CNT	1	1	3	5	5	15	19		26	29	29	29	23	17	11	14	17	17	24	29	23	10	1	1	1
h'E	MED	E	E	E	E	E	E	E		110	105	100	100	100	100	100	100	100	105	105	105	110	E	E	E	E
	CNT	1	1	3	5	3	15	19		16	31	28	27	26	24	20	23	22	24	24	27	15	10	1	1	1
foEs	MED	42	38	28	25	25	20	26	30	36	44	47	41	42	40	38	39	38	40	40	34	46	48	40	32
	CNT	18	14	24	27	27	24	22	31	31	31	31	30	31	26	27	27	28	29	33	29	26	27	23	22

SWEEP 1.4 MC TO 17.4 MC.

AUGUST, 1960

TABLE

GENOA (MONTE CAPELLINO), ITALY (44.6N, 9.0E)

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	68	63	59	57	62	70	78	80	80	82	84	85	86	85	83	84	86	90	91	86	80	76
	CNT	30	30	30	30	30	30	30	31	30	30	30	29	29	30	30	30	31	31	31	31	30	30	30	30
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	290	300	300	305	305	300	265	240	230	220	215	220	215	220	220	220	225	235	245	260	250	245	260	265
	CNT	30	30	30	29	29	31	30	27	27	22	22	22	24	26	24	23	24	24	25	27	30	31	30	30
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							270	260	300	330	350	360	380	380	360	350	330	300	260	200				
	CNT							12	31	31	30	31	30	29	30	29	28	31	30	31	15				
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

AUGUST, 1960

TABLE

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	52	49	47	44	34	38	46	54	58	64	66	64	64	67	64	67	69	69	70	75	69	66	60	58
	CNT	27	25	24	26	23	26	30	30	31	29	28	30	31	31	31	31	31	31	31	24	30	28	29	28
	UQ	60	54	56	49	47	41	54	62	67	71	75	76	78	77	79	78	77	80	80	84	80	72	66	62
	LQ	47	42	42	38	35	35	45	49	50	55	53	52	55	56	57	60	59	60	60	64	60	57	52	52
h'F2	MED								345	4475	350	380	4125	445	415	385	370	358	320						
	CNT							1	15	20	21	25	26	28	29	29	29	22	15	2					
	UQ								440	530	510	538	762	475	484	478	425	460	345						
	LQ								320	332	290	328	350	346	342	336	347	343	320						
h'F	MED	E 285	E 290	U 284	L 2845	E																			
	CNT	28	24	22	26	29	28	36	29	31	29	29	30	31	31	31	31	31	31	31	30	30	31	3	3
	UQ	303	314	312	310	338	340	260	240	232	244	220	219	222	224	230	235	237	250	258	265	240	275	284	285
	LQ	268	268	268	276	274	264	237	226	214	205	200	200	205	205	212	215	219	224	240	250	240	245	262	265
(M3000)F2	MED	270	275	280	280	270	285	325	2725	280	2725	285	280	275	265	275	280	275	285	290	290	285	280	270	275
	CNT	26	23	23	23	23	26	30	30	31	28	27	30	31	31	31	31	31	31	31	29	30	28	27	28
	UQ	275	280	285	285	285	310	315	310	310	310	300	295	290	285	285	290	290	295	300	300	290	290	280	280
	LQ	260	260	265	270	260	275	295	270	260	260	240	225	250	255	255	260	260	270	280	280	275	270	260	265
foF1	MED								430	450	480	500	515	500	500	500	490	470							
	CNT								9	14	14	21	22	21	22	23	17	11	2						
foE	MED							230	270	335	3525	362	390	400	3825	380	365	340	295	U 235					
	CNT						1	14	13	15	18	15	18	12	16	19	22	24	18	6					
h'E	MED							118	113	112	110	110	110	110	111	110	110	112	115	L 121					
	CNT						2	28	29	31	31	30	30	28	30	30	30	30	30	23					
foEs	MED								305	34	35								32	24					
	CNT	28	29	29	28	29	29	31	30	31	31	30	31	31	31	31	31	31	31	31	30	31	31	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

AUGUST, 1960

TABLE

DAKAR, FRENCH W. AFRICA (14.8N, 17.4W)

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 56	54	56	51	53	52	47	56	79	84	89	100	114	128	135	140	140	142	U 140	134	124	115	89	68
	CNT	12	15	16	19	18	16	25	28	31	30	29	30	30	28	28	29	28	26	25	24	27	24	18	14
	UQ																								
	LQ																								
h'F2	MED										L 375	U 342	U 354	U 355	350	375	350	350	J 368	U 320					
	CNT										2	2	2	4	6	9	10	7	6	1					
	UQ																								
	LQ																								
h'F	MED	365	348	320	305	289	260	260	248	230	225	205	200	200	200	200	200	208	225	230	250	280	345	390	370
	CNT	27	30	29	29	24	19	24	28	31	30	28	30	29	23	26	27	28	27	31	29	29	30	31	31
	UQ	U 211	264	260	260	275	270	240	210	340	310	290	270	270	260	260	250	250	265	262	260	250	245	240	250
	LQ	12	13	13	18	17	14	24	27	30	30	29	30	30	28	26	23	18	17	15	12	24	17	12	12
foF1	MED										U 440	U 480	J 520	U 540	U 540	U 540	U 530	U 510	U 520						
	CNT										1	2	2	3	2	4	6	1	1						
foE	MED	E	E	E	E	E	E	E	E	260	320	355	380	400	410	400	400	365	335	285	200	E	E	E	
	CNT	1	1	1	3	4	5	10	13	20	18	17	22	15	12	15	16	17	21	26	18	17	15	5	
h'E	MED	E	E	E	E	E	E	E	E	105	100	100	100	100	100	100	100	100	100	105	E 115	E	E	E	
	CNT	1	1	1	3	4	5	10	11	15	16	15	22	19	13	18	15	14	18	27	13	17	15	5	
foEs	MED	28	27	26	30	29	30	28	31	47	50	50	44	44	45	43	42	40	40	47	44	30	26	28	28
	CNT	27	23	22	23	31	28	30	28	30	30	29	30	30	27	27	29	29	29	31	30	25	24	25	24

SWEEP 1.2 MC TO 17.0 MC.

AUGUST, 1960

TABLE 53

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	U 83	U 83	U 68	U 64	62	58	63	82	108	108	108	113	112	112	115	115	111	D 108	J 114	U 108	U 82		D 83	
	CNT	1	2	2	2	7	9	16	8	16	22	21	20	20	17	15	15	6	1	4	1	2		1	
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	288	265	254	238	220	215	240	230	215	205	205	200	202	200	200	205	212	230	250	305	U 300	U 272	U 270	270
	CNT	8	5	5	6	11	16	28	24	27	24	23	18	16	20	19	15	16	17	20	23	3	2	2	5
	UQ																								
	LQ																								
(M3000)F2	MED	U 275		U 275	U 302	330	320	315	325	305	280	250	235	230	230	232	240	240		U 255	U 245	U 225			
	CNT	1		1	2	7	8	14	7	15	19	13	17	16	15	12	9	5		1	1	2			
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED					E	E	E	250	320	350	372	390	410	400	385	365	U 348	U 290	200	E				
	CNT					2	3	29	18	17	22	20	13	12	13	15	13	4	2	6	17				
h'E	MED					E	E	E	U 120		U 105	U 100	U 100	U 100						130	E				
	CNT					2	3	29	1		1	1	1	1						5	17				
foEs	MED	37	32	35	35	35	33	35	43	50	65	82	80	83	83	80	73	70	60	42	37	E	E	22	32
	CNT	31	31	31	31	31	31	31	30	31	31	31	31	30	30	31	30	27	29	30	30	31	31	30	30

SWEEP 1.25 MC TO 20.0 MC. AUGUST, 1960

TABLE

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	81	72	70	54	47	40	50	89	117	132	140	127	119	112	110	114	120	128	126	144	160	155	120	112
	CNT	20	22	21	22	22	24	29	29	29	29	30	29	30	30	29	30	29	30	30	28	29	27	24	18
	UQ																								
	LQ																								
h'F2	MED							U 245	U 245	265	270	270	268	280	275	295	328	290	U 250						
	CNT							1	2	15	25	28	22	23	17	13	14	11	4						
	UQ																								
	LQ																								
h'F	MED	232	235	235	235	245	260	300	250	235	225	220	215	215	225	235	240	245	250	260	270	245	230	225	225
	CNT	31	31	30	29	29	28	28	28	30	28	27	22	25	20	23	23	20	29	27	29	31	30	27	30
	UQ																								
	LQ																								
(M3000)F2	MED	305	305	310	300	305	305	285	310	320	320	320	310	305	295	280	280	285	285	290	285	292	300	315	310
	CNT	19	21	21	21	23	23	27	29	26	29	29	29	29	29	29	30	28	29	25	23	18	19	15	11
	UQ																								
	LQ																								
foF1	MED											U 530	U 500	U 520	U 500	U 570	U 550								
	CNT											1	4	3	3	2	1								
foE	MED	E	E	E	E	E	E	E	240	310	348	365	380	390	368	352	345	305	245		E	E	E	E	E
	CNT	7	8	8	11	10	11	26	25	27	24	18	17	9	13	12	21	20	18		3	5	5	4	4	8
h'E	MED	E	E	E	E	E	E	E	125	105	105	100	100	100	100	100	105	110	125		E	E	E	E	E	E
	CNT	7	8	8	11	10	11	27	25	25	28	27	30	30	27	21	23	19	15		20	6	5	4	4	8
foEs	MED	24	22	22	23	24	24	26	31	32	36	38	43	47	45	44	40	37	36	35	36	31	31	26	23
	CNT	30	30	29	29	29	29	28	28	29	30	28	29	28	26	27	30	29	30	30	30	30	30	27	29

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE. AUGUST, 1960

TABLE 55

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	38	33	30	26	25	25	42	79	92	102	111	106	104	102	97	94	92	89	84	73	61	50	46	43
	CNT	29	27	28	28	29	31	31	31	30	31	31	29	27	31	30	31	30	31	30	31	31	31	30	31
	UQ																								
	LQ																								
h'F2	MED									255	275	270	280	278	290	275	U 300	U 265							
	CNT									11	13	21	20	14	18	14	3	1							
	UQ																								
	LQ																								
h'F	MED	260	E	E	E	E	E	270	245	238	225	220	218	215	210	230	235	240	240	235	228	235	245	250	250
	CNT	29	27	26	26	25	29	31	31	30	31	31	28	23	23	25	23	25	28	30	28	27	27	29	30
	UQ																								
	LQ																								
(M3000)F2	MED	310	310	315	290	275	290	295	335	330	320	315	310	300	290	295	295	295	305	310	315	310	310	318	310
	CNT	29	27	28	28	29	30	31	31	30	31	31	29	27	31	30	31	30	31	30	31	31	31	30	31
	UQ																								
	LQ																								
foF1	MED											U 500	U 510	U 480	U 460										
	CNT											2	2	1	3										
foE	MED	E	E	E	E	E	E	E	230	298	335	360	365	370	355	345	325	290	220	E	E	E	E	E	E
	CNT	15	13	18	24	28	28	30	24	30	28	29	27	24	26	26	26	28	25	20	13	11	12	10	12
h'E	MED	E	E	E	E	E	E	E	130	125	112	110	108	105	105	110	115	120	125	E	E	E	E	E	E
	CNT	15	13	18	24	28	28	30	19	20	20	20	22	19	20	18	17	16	13	20	13	11	12	10	12
foEs	MED	17	17	17	19	17	18	25	G	G	G	G	G	30	41	37	37	33	32	29	28	27	23	22	19
	CNT	31	31	31	31	31	30	31	25	28	31	31	30	29	31	31	31	30	31	27	31	25	24	29	31

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES. AUGUST, 1960

TABLE 56

PARIS, FRANCE (48.1N, 2.3E) 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	68	67	62	61	56	52	56	62	61	63	66	73	74	76	75	72	70	75	70	76	70	U 69	69	67
	CNT	17	25	22	23	17	24	24	19	21	16	18	15	19	16	12	15	19	15	23	20	11	9	15	11
	UQ																								
	LQ																								
h'F2	MED						U 340	U 400	420	390	465	395	350	350	390	378	392	345	U 402	U 375	U 340				
	CNT						3	4	6	9	6	9	8	11	10	8	8	9	2	4	2				
	UQ																								
	LQ																								
h'F	MED	278	280	290	290	292	300	250	240	220	210	208	200	200	200	205	210	215	220	230	245	260	250	260	270
	CNT	21	25	23	23	20	22	24	19	14	15	10	11	9	13	13	16	21	14	18	14	22	20	16	20
	UQ																								
	LQ																								
(M3000)F2	MED	268	265	260	258	265	265	270	288	275	268	278	282	280	275	275	280	280	285	285	275	280	U 300	280	265
	CNT	14	21	18	16	16	20	20	18	19	16	16	14	15	14	8	14	17	14	20	15	7	3	13	8
	UQ																								
	LQ																								
foF1	MEQ						U 250	U 340	400	430	470	510	520	550	530	U 530	510	500	U 460	U 440	U 390				
	CNT						1	4	6	12	7	8	7	9	7	3	7	9	1	4	1				
foE	MED	E	E	E	E	E	E	198	260	302	325	350	355	365	370	360	355	340	320	302	265	200	E	E	E
	CNT	5	13	13	15	16	19	22	26	28	28	30	30	24	27	26	24	24	19	24	25	22	14	6	5
h'E	MED	E	E	E	E	E	E	125	120	115	110	105	100	100	100	105	110	110	115	120	125	135	E	E	E
	CNT	5	13	13	15	16	19	23	25	29	28	29	29	28	26	23	28	25	22	22	25	17	16	6	5
foEs	MED	32	23	20	21	25	24	25	32	38	39	42	42	45	45	41	40	40	40	38	35	32	41	37	33
	CNT	21	25	30	30	29	26	29	28	28	29	30	30	28	28	28	29	30	28	30	29	27	21	22	20

SWEEP 1.4 MC TO 17.0 MC. JULY, 1960

TABLE 57

GENOA (MONTE CAPELLINO). ITALY (44.6N, 9.0E) 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	75	75	71	67	64	62	68	68	69	74	75	81	80	85	82	83	80	80	80	83	85	83	81	79
	CNT	29	29	28	30	29	31	29	28	29	27	30	28	29	26	28	30	31	31	31	30	30	30	30	30
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	310	310	315	320	320	305	265	245	230	225	220		U 220		220	225	225	230	250	260	275	275	280	305
	CNT	28	31	27	26	31	30	27	23	23	18	18	10	16	13	17	17	19	20	25	22	27	29	29	28
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							210	270	300	340	350	370	380	380	360	350	330	310	290	230				
	CNT							30	30	30	30	30	31	29	31	29	27	27	23	26	25				
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES. AUTOMATIC OPERATION. JULY, 1960

TABLE 58

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	585	55	485	47	40	42	48	53	57	59	61	625	625	635	64	64	67	67	68	69	695	68	64	60
	CNT	30	29	30	27	25	28	27	27	28	30	31	30	30	30	31	31	31	31	31	31	30	30	31	31
	UQ	63	58	55	50	45	48	56	64	67	70	71	65	68	70	71	71	72	73	76	76	76	73	69	66
	LQ	52	46	42	38	35	37	42	48	50	50	52	53	55	56	55	56	62	62	62	61	64	65	58	56
h'F2	MED							380	4425	420	4325	430	425	4425	4285	415	405	3705	340	285					
	CNT						1	14	20	27	30	30	29	30	30	31	30	30	28	17	1				
	UQ							595	549	600	600	650	560	640	573	550	520	412	378	315					
	LQ							285	317	340	345	333	372	369	378	360	370	349	319	275					
h'F	MED	E 2775	E 2715	E 260	U 271	E 280	U 264	237	220	E 220	2135	208	197	200	204	E 210	215	215	224	U 240	257	2515	258	260	270
	CNT	30	30	31	30	30	28	27	27	26	30	31	28	29	30	31	31	31	30	31	31	30	30	31	31
	UQ	300	290	310	300	315	274	246	228	230	220	215	206	212	215	217	220	222	233	262	265	262	269	270	290
	LQ	260	260	263	255	270	254	225	210	210	200	200	188	186	190	197	206	207	215	230	250	242	250	250	255
(M3000)F2	MED	275	280	275	280	280	295	300	285	270	265	270	270	270	2675	270	270	280	280	290	290	285	280	280	275
	CNT	29	28	29	26	25	28	27	27	27	30	31	30	30	30	31	31	31	31	30	31	30	30	31	31
	UQ	285	280	280	285	285	300	310	315	295	240	295	285	290	285	285	280	285	295	300	300	290	290	285	280
	LQ	270	270	270	265	270	275	260	260	235	240	225	245	230	225	240	250	265	270	280	285	280	270	270	265
foF1	MED							380	430	460	480	510	510	520	520	510	500	470	450						
	CNT						1	11	17	24	29	31	28	29	30	31	30	29	23	3					
foE	MED						U 1925	255	U 300	3375	350	U 365	385	390	390	380	360	345	310	U 2575					
	CNT						6	13	11	8	8	8	7	11	17	19	23	26	23	14	2				
h'E	MED						E 123	112	1085	107	105	105	105	1055	105	106	108	109	110	112	E 1275				
	CNT						10	26	26	28	30	30	29	28	31	31	31	31	31	29	6				
foEs	MED							29	33	38	39	395	40				36		31	33	25		27	22	25
	CNT	30	30	31	30	28	29	27	27	28	30	30	30	30	31	31	31	31	31	31	31	31	30	31	31

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

TABLE 59

DAKAR, FRENCH W. AFRICA (14.8N, 17.4W) 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 52	46	47	44	U 44	U 47	49	60	76	81	86	93	104	116	123	131	131	134	130	128	123	O 84	68	62
	CNT	6	8	7	5	4	3	7	24	27	25	27	26	26	28	29	27	26	25	22	18	8	9	11	10
	UQ																								
	LQ																								
h'F2	MED											U 295	U 330	U 360	372	360	375	355	340	L 375					
	CNT											1	3	4	10	11	16	10	4	3					
	UQ																								
	LQ																								
h'F	MED	380	360	365	352	350	310	275	250	235	220	210	208	205	202	202	200	210	220	230	250	295	365	390	375
	CNT	24	26	25	22	21	21	21	24	28	25	27	24	20	18	17	20	22	24	28	27	23	30	28	27
	UQ																								
	LQ																								
(M3000)F2	MED	U 248	240	242	245	U 275	L 310	285	320	330	315	282	262	255	260	255	250	258	255	260	265	U 250	U 255	245	240
	CNT	4	6	6	5	2	3	6	23	25	25	26	22	25	26	27	21	18	14	12	6	3	1	7	6
	UQ																								
	LQ																								
foF1	MED													L 550	580	560	U 560	520							
	CNT													1	2	3	4	1							
foE	MED			E	E	E	E	E					L	J 375	395	L 400	370	355	J 340	285	222	E	E	E	
	CNT			1	2	1	1	4	4	160 11	260 11	310 8	350 6	8	10	6	11	12	21	20	20	9	8	1	
h'E	MED			E	E	E	E	E	E					100	100	100	100	100	100	100	115	E	E	E	
	CNT			1	2	1	1	4	4	120 5	145 10	100 15	100 16	23	24	24	22	25	23	23	16	9	8	1	
foEs	MED	30	31	31	31	31	31	31	32	46	52	48	48	46	46	46	42	42	38	33	31	27	30	27	28
	CNT	26	26	25	23	21	27	21	28	28	25	26	23	24	21	24	24	27	29	28	23	24	24	22	23

SWEEP 1.2 MC T 17.0 MC. JULY, 1960

TABLE 60

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 78				57	64	83	94	101	105	97	100	104	108	114	116	113	U 102	U 114	87	U 86	U 85	
	CNT		1				7	18	24	24	29	21	21	24	20	23	15	13	6	4	3	5	3	1	
	UQ																								
	LQ																								
h'F2	MED													U 375	U 435										
	CNT													1	1										
	UQ																								
	LQ																								
h'F	MED	U 295	U 270	U 275	U 275	U 230	215	240	230	220	212	210	205	200	202	208	210	215	230	250	290	332	300	340	U 342
	CNT	2	1	1	1	3	10	30	29	26	28	23	23	24	20	24	29	27	25	25	27	8	5	6	2
	UQ																								
	LQ																								
(M3000)F2	MED		U 290				322	315	310	300	270	242	235	225	230	225	230	232	240	U 250	U 255	U 218	U 242	L 240	
	CNT		1				6	18	22	22	28	22	21	20	19	20	13	10	5	4	3	2	2	1	
	UQ																								
	LQ																								
foF1	MED													U 550	U 550										
	CNT													1	1										
foE	MED							E	260	320	350	370	365	390	395	390	370	340	298	208	E				
	CNT							17	27	28	46	22	27	27	24	21	22	7	6	6	40				
h'E	MED							E	115	110	U 102	U 102	U 100	U 100	U 100	U 100	U 110			U 125	E				
	CNT							21	8	5	2	2	1	2	4	1	1			2	20				
foEs	MED	19	21	23	22	22	21	25	41	43	50	67	67	70	70	70	68	65	43	39	32	E	E	E	E
	CNT	31	31	31	31	31	31	23	31	31	31	31	31	31	30	35	31	31	31	31	30	31	31	31	31

SWEEP 1.25 MC TO 20.0 MC. JULY, 1960

TABLE 61

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	80	65	65	52	43	36	52	80	107	121	121	114	110	107	110	116	117	124	125	128	144	118	95	81
	CNT	18	23	23	20	18	20	24	27	30	31	24	31	31	29	31	30	29	27	29	29	24	25	15	16
	UQ																								
	LQ																								
h'F2	MED								245	255	255	255	265	275	285	300	295	290	U 252						
	CNT								5	17	27	25	28	24	21	15	13	11	4						
	UQ																								
	LQ																								
h'F	MED	230	235	240	232	E 240	232	230	250	235	225	22	215	235	230	225	238	245	250	245	235	220	225	220	235
	CNT	27	29	28	25	27	27	29	31	29	31	31	31	29	26	28	28	29	28	30	30	31	31	29	28
	UQ																								
	LQ																								
(M3000)F2	MED	310	305	310	312	302	300	290	320	325	330	33	320	315	305	300	295	300	308	302	300	302	310	310	300
	CNT	17	22	23	20	16	20	22	25	27	27	27	29	31	29	27	28	27	24	24	27	18	23	12	14
	UQ																								
	LQ																								
foF1	MED											U 500	U 520	U 540	U 500	U 560	U 450								
	CNT											1	3	2	5	3	1								
foE	MED	E	E	E	E	E	E	E	210	288	335	360	375	380	370	350	335	290	220	E	E	E	F	E	E
	CNT	13	12	15	6	9	13	26	28	28	29	27	18	9	11	21	24	24	16	12	4	9	16	11	11
h'E	MED	E	E	E	E	E	E	E	125	105	105	100	100	100	100	100	105	118	125	E	E	E	E	E	E
	CNT	13	12	15	6	9	10	26	26	30	29	30	31	30	27	27	23	16	9	23	4	9	16	11	11
foEs	MED	23	22	22	23	24	24	24	31	31	31	31	37	37	36	36	36	34	31	34	35	30	26	28	24
	CNT	27	26	24	21	25	25	28	31	29	31	31	30	27	28	31	29	30	29	30	30	30	30	28	27

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE. JULY, 1960

TABLE 62

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	30	27	26	22	23	24	32	70	90	100	96	95	94	91	90	89	87	84	72	52	38	36	34	32
	CNT	26	25	27	28	27	27	29	28	27	30	28	29	28	29	30	30	30	30	28	30	29	26	30	29
	UQ																								
	LQ																								
h'F2	MED									250	260	260	280	285	290	280	288	U 300							
	CNT									12	22	19	19	17	13	14	6	3							
	UQ																								
	LQ																								
h'F	MED	255	E	E	E	E	E	315	245	240	235	230	225	220	225	240	235	248	245	230	232	250	250	265	250
	CNT	28	26	28	30	30	30	29	29	25	30	28	28	23	23	24	24	28	27	27	22	22	26	28	28
	UQ																								
	LQ																								
(M3000)F2	MED	310	295	300	288	280	290	285	312	330	330	320	310	295	295	300	295	300	310	320	320	310	315	310	312
	CNT	26	25	27	28	27	27	29	28	27	30	28	29	27	29	30	30	30	30	28	30	29	26	30	28
	UQ																								
	LQ																								
foF1	MED											U 480	550	U 550	U 430	U 420	U 420								
	CNT											1	5	2	3	1	1								
foE	MED	E	E	E	E	E	E	E	208	280	315	340	350	360	350	345	325	285	202	E	E	E	F	E	E
	CNT	9	10	17	22	24	28	30	16	21	29	25	29	29	28	27	28	27	18	15	6	5	5	3	3
h'E	MED	E	E	E	E	E	E	E		120	115	115	110	105	110	110	118	125	128	E	E	E	E	E	E
	CNT	9	10	17	22	24	28	30		14	22	21	25	22	19	17	16	15	6	15	6	5	5	3	3
foEs	MED	24	24	24	23	23	22	23	29	G	G	G		35	38	37	38	37	32	30	28	28	29	26	24
	CNT	31	31	31	31	31	30	30	15	24	30	28	38 30	30	30	29	30	30	30	28	30	25	27	29	30

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES. JULY, 1960

TABLE 63

NATAL, BRAZIL (5.7S, 35.2W) TIME 30.0W

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 122	U 96	U 90	U 80	U 76	74	64	84	106	119	126	129	130	127	125	125	126	120	115	U 104	U 92		U 96	U 90
	CNT	8	13	19	22	18	22	22	28	26	27	28	23	25	23	25	28	26	26	26	26	18	3	5	5
	UQ	128	106	93	90	92	82	76	92	112	125	132	135	135	138	135	132	135	130	130	112	102		110	112
	LQ	95	70	70	70	67	62	47	76	103	114	120	120	120	120	116	118	117	115	107	95	85		90	88
h'F2	MED															1	1	1	1						
	CNT																								
	UQ																								
	LQ																								
h'F	MED	250	240	250	250	250	240	230	250	235	230	220	210	210	205	210	205	220	240	265	320	420	410	345	290
	CNT	28	28	28	28	27	28	28	28	25	21	22	17	14	18	19	21	17	23	26	27	27	28	28	29
	UQ																								
	LQ																								
(M3000)F2	MED	U 310	U 305	300	U 300	U 300	315	325	315	305	280	255	240	240	240	235	230	225	230	220	U 220	U 205		U 255	
	CNT	7	10	15	16	17	21	21	28	26	26	28	21	25	22	25	25	26	26	26	26	17	3	5	3
	UQ																								
	LQ																								
foF1	MED															1									
	CNT																								
foE	MED								230	300	350	390	410	U 420	410	400	390	350	310	250					
	CNT								22	25	19	14	17	8	11	10	15	14	21	20					
h'E	MED								121	111	108	109	107	109	109	107	109	109	109	114					
	CNT								15	24	20	16	16	14	12	13	19	18	16	12					
foEs	MED		U 36	U 34	U 32	U 36	U 38	U 39	U 36	U 38	U 54	U 56	U 56	U 57	U 53	U 54	U 53	U 50	U 46	U 40	U 35				U 36
	CNT	4	9	10	10	14	14	15	28	28	27	28	25	22	22	24	27	25	24	25	11	2	1	2	5

SWEEP 1.0 MC TO 25.0 MC. FEBRUARY, 1960

TABLE 64

MUNDARING, W. AUSTRALIA (32.0S, 116.2E) TIME 120.0E

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 60	D 50	D 45	D 45	D 45	63	70	72	82	82	85	85	U 87	85	D 82	D 80	D 72					
	CNT	4	4	5	10	16	19	11	15	20	20	23	18	21	18	19	17	20	20	9	2	1		1	3
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	U 270	E 275	270	U 275	E 290	U 270	U 260	245	230	220	220	210	200	210	220	220	230	230	250	250	250	250	270	U 270
	CNT	17	19	19	20	21	24	22	26	27	25	20	20	25	22	25	26	26	25	24	24	23	25	21	19
	UQ																								
	LQ																								
(M3000)F2	MED					U 275	280	280	315	310	300	285	280	280	270	280	285	285	290						
	CNT	2	2	1	4	7	14	9	13	16	16	17	14	14	12	12	13	12	12	3					1
	UQ																								
	LQ																								
foF1	MED									490	510	550	560	560	560	570	550	530							
	CNT								2	6	9	15	17	19	19	23	16	9	4						
foE	MED							185	260	310	340	365	380	380	380	380	375	340	315	270					
	CNT							7	11	22	27	25	25	25	27	23	24	22	25	13					
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 1 MINUTE 45 SECONDS. FEBRUARY, 1960

TABLE [illegible]

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	U 65	U 67	75	73	77	84	85	U 85	86	83	85	U 80	U 76	73	71	U 68	66	60			D 46		U 60	U 58
	CNT	10	11	9	13	12	7	13	15	14	19	17	14	17	16	17	14	12	4	3	3	5	4	7	9
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED		E 280	S 255	U 225	U 205		205	U 210	U 225	200		200	E 210	S 230	245	J 255	U 270				E 200			
	CNT	4	7	6	7	3	3	6	5	5	8	4	7	[illegible]	9	7	5	5	4	1	2	5	2	1	4
	UQ																								
	LQ																								
(M3000)F2	MED	280	265	280	250	260	250	250	250	255	250	260	260	280	285	320	300	290	300						280
	CNT	7	8	8	12	11	7	12	14	14	16	16	19	16	12	14	11	12	9	2	2	2	2	4	8
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 15 SECONDS. FEBRUARY, 1960

TABLE 66

RAROTONGA I. (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	106	92	93	91	88	90	96	101	105	116	124	131	141	149	144	143	132	124	112	110	114	118	119	111
	CNT	18	18	20	21	23	25	24	25	25	27	27	28	24	29	30	29	26	20	18	15	18	12	15	10
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	290	270	260	270	265	275	300	295	270	270	265	260	270	270	270	275	275	275	265	260	265	265	280	270
	CNT	18	18	19	20	23	23	23	25	25	27	26	28	24	28	30	29	26	19	14	14	16	11	14	9
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	42	40	36	34	31	32	42	51	50	58	58	50	45	47	48	58	60	56	48	54	58	48	42	42
	CNT	27	27	27	26	27	27	26	27	25	27	28	24	29	30	30	30	26	28	28	26	27	27	27	27

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. DECEMBER, [illegible]

TABLE [illegible]

CHRISTCHURCH, NEW ZEALAND (43.6S, 172.8E) TIME 180.0[illegible]

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	77	71	67	62	56	53	54	61	69	74	78	79	85	84	82	83	83	84	85	87	82	84	85	84
	CNT	29	29	29	29	29	24	27	28	27	27	28	26	29	28	30	30	30	30	32	29	30	30	29	29
	UQ																								
	LQ																								
h'F2	MED							U 500	410	390	360	410	410	430	390	380	370	[illegible]	350	370					
	CNT							1	10	14	17	22	25	25	26	27	24	22	19	7					
	UQ																								
	LQ																								
h'F	MED	290	290	280	290	290	280	250	250	240	240	220	230	230	230	230	230	230	240	250	260	270	290	300	300
	CNT	26	26	28	26	28	24	23	21	20	19	15	15	14	16	20	20	21	26	24	27	25	27	25	27
	UQ																								
	LQ																								
(M3000)F2	MED	245	245	245	245	255	265	270	270	265	265	260	255	250	250	267	265	265	265	265	27[illegible]	240	255	240	245
	CNT	29	29	29	27	28	25	26	27	26	25	28	26	29	28	26	23	30	32	30	27	30	29	28	27
	UQ																								
	LQ																								
foF1	MED							420	440	480	510	540	575	570	570	560	530	520	490	460					
	CNT							2	3	7	10	14	14	14	[illegible]	21	13	10	4	[illegible]					
	UQ																								
	LQ																								
foE	MED							260	300	340	3[illegible]	390	400	400	400	400	390	370	340	300					
	CNT							21	20	20	16	[illegible]	14	15	17	14	17	21	25	27					
	UQ																								
	LQ																								
h'E	MED							105	105	100	100	100	100	100	100	100	100	100	100	110					
	CNT							25	28	28	28	28	26	28	28	28	30	32	32	3[illegible]					
	UQ																								
	LQ																								
foEs	MED	26	14	13	11	13	28	35	40	44	49	50	50	50	50	45	44	38	34	31	30	29	35	37	30
	CNT	29	29	29	29	28	28	28	28	28	28	28	28	29	29	30	30	30	30	30	3[illegible]	32	3[illegible]	30	30

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. DECEMBER, 1959

TABLE 68

CAMPBELL I. (52.5S, 169.2E) 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	U 50	59	48	45	45	52	56	60	63	65	57	70	70	70	72	73	75	76	75	71	66	U 67	U 69	U 70
	CNT	18	14	17	19	21	22	18	22	23	19	23	25	24	26	23	23	20	19	21	21	15	15	13	16
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 235	230	235	240	240	250	240	250	230	240	245	240	235	235	235	240	240	245	240	240	230	U 230	U 235	U 235
	CNT	16	11	14	17	21	20	17	21	22	19	21	21	23	24	22	22	19	16	17	18	14	12	8	14
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
	UQ																								
	LQ																								
foE	MED																								
	CNT																								
	UQ																								
	LQ																								
h'E	MED																								
	CNT																								
	UQ																								
	LQ																								
foEs	MED	32	33	32	24	G	28	33	35	36	38	38	[illegible]	[illegible]	G	G	G	G	E	32	28	25	30	25	32
	CNT	23	24	24	19	23	22	21	23	24	24	25	25	24	27	23	34	23	26	27	26	25	25	24	24

SWEEP 1.0 MC TO 13.0 MC IN 2 MINUTES. DECEMBER, 1959

TABLE 69

RAROTONGA I. (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	114	100	97	95	93	99	108	107	112	120	133	143	150	150	146	146	141	136	129	123	128	124	U 128	U 123
	CNT	25	22	24	23	23	23	28	24	29	29	29	28	29	29	29	29	28	28	28	21	18	17	13	20
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	295	278	U 270	U 275	283	295	315	300	285	275	275	275	280	275	275	275	280	285	285	U 270	265	275	U 275	U 290
	CNT	23	20	20	23	20	21	27	23	29	29	29	28	29	29	29	29	28	27	26	21	18	16	11	18
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	30	30	13	13	E	30	G	37	46	46	47	44	45	46	43	42	45	40	37	36	36	32	32	31
	CNT	28	29	29	29	29	29	29	29	29	29	29	28	29	29	29	29	28	28	28	28	28	28	28	28

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. NOVEMBER, 1959

TABLE 70

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	75	U 72	65	61	57	54	58	65	70	75	80	81	87	88	88	87	86	86	U 86	U 91	U 88	86	83	U 80
	CNT	30	30	29	29	29	30	30	30	30	30	30	30	30	29	30	29	30	30	29	29	29	29	29	29
	UQ																								
	LQ																								
h'F2	MED							U 400	450	370	400	400	380	360	380	370	430	420	390	U 420					
	CNT							1	7	15	14	16	18	20	18	16	10	9	7	2					
	UQ																								
	LQ																								
h'F	MED	290	300	290	290	280	290	250	250	240	230	220	220	220	220	220	230	230	240	250	270	270	260	280	290
	CNT	27	29	28	27	29	29	29	30	29	29	28	27	28	27	27	29	30	30	28	27	28	28	29	29
	UQ																								
	LQ																								
(M3000)F2	MED	240	U 240	245	240	250	260	275	270	275	270	265	265	265	265	265	265	265	265	265	U 265	U 260	255	250	U 245
	CNT	30	30	29	29	29	30	30	30	30	30	30	30	30	29	29	29	30	30	29	29	29	28	28	29
	UQ																								
	LQ																								
foF1	MED							U 310	440	480	500	510	520	540	520	520	510	500	U 470	U 400					
	CNT							3	5	12	11	12	15	13	14	10	8	8	3	1					
foE	MED							250	290	330	370	390	390	390	390	390	380	350	320	280					
	CNT							29	30	28	28	25	29	27	29	29	29	30	30	28					
h'E	MED							110	105	105	100	100	100	100	100	100	100	105	105	110					
	CNT							27	29	30	30	30	30	30	30	30	29	29	29	30					
foEs	MED	E 15	E 13	E 12	E	L	17	25	G	34	37	39	39	39	G	G	G	G	G	30	25	20	19	E 14	E 14
	CNT	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	30	30	30	30	30	30	30	30

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. NOVEMBER, 1959

TABLE 71

CAMPBELL I. (52.5S, 169.2E) 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	U 57	U 55	48	44	U 48	52	55	58	64	64	67	68	70	71	75	77	75	80	79	75	U 75	U 70	U 62	U 60
	CNT	17	18	16	19	21	23	26	24	18	20	27	21	23	21	21	21	24	22	17	15	14	17	14	15
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 225	U 235	230	U 235	U 245	250	255	250	245	240	240	240	240	240	240	245	U 245	U 250	U 245	U 240	U 240	U 225	U 225	U 235
	CNT	9	12	14	16	17	22	24	22	17	16	23	21	20	20	19	19	18	15	14	10	8	9	11	12
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	23	21	20	20	G	G	G	G	G	G	G	G	G	G	G	G	G	G	26	22	26	24	29	26
	CNT	25	23	23	24	23	23	25	24	21	19	26	25	22	24	25	26	27	29	28	28	26	27	27	26

SWEEP 1.0 MC TO 13.0 MC IN 2 MINUTES. NOVEMBER, 1959

TABLE 72

RAROTONGA I. (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	100	90	89	84	86	92	109	112	118	124	132	141	140	141	137	140	138	140	135	134	128	121	119	118
	CNT	19	27	28	27	28	28	27	26	28	28	28	29	29	30	31	31	30	28	29	23	18	19	16	17
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	290	280	270	275	275	290	325	325	300	295	285	285	280	275	275	280	285	290	285	290	285	280	285	285
	CNT	16	24	26	27	27	25	26	25	28	28	28	29	29	30	31	30	30	27	28	22	15	13	12	13
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	F	E	14	29	G	G	G	G	G	G	G	G	38	36	32	36	31	31	28	14	E
	CNT	31	31	31	31	31	31	31	29	28	28	28	29	29	30	31	31	31	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. OCTOBER, 1959

TABLE 73

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 73	U 69	U 63	U 62	55	53	55	69	77	84	89	92	93	94	95	91	90	91	U 93	U 93	U 84	U 85	U 81	U 78
	CNT	30	30	29	31	29	29	30	29	30	30	29	28	29	29	30	31	31	31	27	27	31	31	28	30
	UQ																								
	LQ																								
h'F2	MED								U 450	U 360	330	380	350	320	360	350	U 400	U 420							
	CNT								1	3	9	8	9	15	12	8	4	3							
	UQ																								
	LQ																								
h'F	MED	290	280	280	270	280	290	260	250	240	230	220	210	210	210	230	230	230	240	250	260	260	260	270	290
	CNT	31	31	31	29	31	30	29	30	30	30	29	28	29	30	31	31	31	31	31	31	28	28	31	30
	UQ																								
	LQ																								
(M3000)F2	MED	U 245	U 250	U 245	U 245	250	250	270	285	285	285	280	280	275	270	275	270	270	265	U 265	U 260	U 255	U 255	U 250	U 245
	CNT	30	30	29	30	27	28	30	29	29	30	28	28	29	29	30	31	31	31	27	27	31	30	28	29
	UQ																								
	LQ																								
foF1	MED								U 400	U 440	U 480	490	520	520	520	520	U 440	U 440							
	CNT								1	3	4	6	6	8	7	7	2	1							
foE	MED							200	270	310	340	370	380	380	380	370	360	330	290	240					
	CNT							29	30	30	30	28	28	28	29	29	30	31	31	31					
h'E	MED							110	105	105	100	100	100	100	100	100	100	105	105	110					
	CNT							21	30	29	30	29	28	28	29	30	31	30	30	26					
foEs	MED	E 16	E 14	E 12	E 11	E		C	G	G		G	G	G	G	G	G	G	G	G		E 14	E 14	E 15	E 15
	CNT	31	31	31	31	29	13 30	30	30	29	34 30	29	29	29	29	30	31	31	31	31		31	31	31	31

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. OCTOBER, 1959

TABLE 74

CAMPBELL I. (52.5S, 169.2E) 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	57	53	49	43	39	46	56	61	67	71	75	76	80	82	82	84	87	85	86	81	76	70	61	60
	CNT	25	24	25	25	24	27	28	30	29	29	29	27	29	30	28	27	28	27	26	23	24	21	24	25
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	240	240	245	245	250	270	275	270	270	270	260	265	265	265	265	270	265	265	270	260	255	245	240	240
	CNT	22	24	22	23	23	27	27	30	28	28	27	27	29	30	28	25	26	25	23	21	21	19	23	23
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	28	22	E 14	E 12	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G		E 21		
	CNT	28	29	25	26	24	25	28	28	27	29	29	29	28	30	29	27	27	30	28	28		29	20 30	22 30 30

SWEEP 1.0 MC TO 13.0 MC IN 2 MINUTES. OCTOBER, 1959

TABLE 75

RAROTONGA I. (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	93	84	80	77	68	66	69	123	128	131	132	131	130	132	131	131	133	140	142	U 141	137	U 135	U 126	99
	CNT	22	25	26	28	27	27	24	27	28	27	27	28	27	28	27	27	24	23	22	12	11	11	11	19
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	280	283	270	275	268	285	305	320	310	305	295	285	275	275	270	270	270	275	280	U 285	285	U 290	U 280	U 285
	CNT	19	24	25	28	26	27	22	24	27	27	27	28	27	28	26	25	23	21	18	8	9	9	7	16
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E			G	G	G	G	G	42	40	37	33	35	38	37	30	15	12	E
	CNT	28	28	28	28	28	28	26 28	28	28	27	27	28	28	28	27	27	27	28	28	28	28	28	29	28

WEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. SEPTEMBER, 1959

TABLE 76

CAMPBELL I. (52.5S, 169.2E) 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	55	51	50	46	41	36	50	60	68	74	79	85	89	89	90	92	89	88	85	76	70	60	60	56
	CNT	25	25	24	24	25	26	25	27	27	27	25	28	29	27	27	28	25	24	21	24	21	26	22	21
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	240	245	245	245	245	250	275	285	285	285	285	280	275	270	275	280	280	285	275	265	260	240	240	245
	CNT	23	25	23	23	25	25	25	27	27	27	25	28	29	27	24	26	25	22	20	22	21	26	21	20
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	33	24	E 20	E 18	E 12	G	G	G	G	G	G	G	G	G	G	G	G	G	E 20	14	24	26	30	32
	CNT	26	24	26	24	21	21	20	25	23	24	23	28	29	29	26	27	26	25	28	27	29	28	26	28

SWEEP 1.0 MC TO 13.0 MC IN 2 MINUTES. SEPTEMBER, 1959

TABLE 77

RARUTONGA (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	80	78	67	55	50	48	64	104	125	136	131	118	120	119	114	114	119	118	103	98	94	86	80	77
	CNT	21	24	25	30	28	29	29	29	30	30	30	30	30	29	30	30	29	22	17	23	17	18	16	18
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	280	295	300	270	273	270	270	315	310	305	300	280	270	270	270	268	275	280	280	270	275	290	275	280
	CNT	21	23	25	30	26	29	29	29	30	30	30	30	30	29	30	30	28	17	17	15	14	15	15	17
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	20	16	30	0	G	G	G	G	G	G	G	G	32	33	30	30	30	22	18	E
	CNT	30	30	30	30	30	30	30	29	30	30	30	30	30	29	30	30	30	30	30	30	30	30	30	30

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. AUGUST, 1959

TABLE 78

CAMPBELL I. (52.5S, 169.2E) TIME 165.0

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	49	48	45	42	46	40	40	51	68	83	90	98	104	108	107	105	99	88	73	64	56	56	55	51
	CNT	29	29	28	27	26	26	29	29	28	28	27	27	31	29	29	29	28	28	26	26	26	26	25	26
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	240	240	245	250	255	255	265	295	300	305	295	295	290	295	290	290	290	280	275	260	245	250	240	240
	CNT	27	29	27	26	26	24	28	29	28	28	26	26	30	28	28	27	25	26	25	26	24	24	25	24
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	30	23	22	24	18	E	G		G		G	G	G	G	G	G	G	G	E		E			
	CNT	28	29	28	28	26	23	27	29	26	29	27	28	28	30	28	30	25	29	26	26	28	28	30	26

SWEEP 1.0 MC TO 13.0 MC IN 2 MINUTES. AUGUST, 1959

TABLE 79

DELHI, INDIA (28.6N, 77.2E) 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	0	0			0	0	0									0	0	0	0	0	0	0	0	0
	CNT	86	80			75	74	82	92	102	103	107	114	117	118	126	122	116	117	116	109	95	87	88	88
	UQ	28	28	2	2	18	26	27	18	18	21	18	19	22	22	17	26	24	25	26	25	25	23	22	20
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED							U										L	U		U				
	CNT	1	1			1	3	8	13	15	17	14	14	16	16	14	12	5	5	1	6	2	3		
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT									2															
h'E	MED																								
	CNT									2															
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION. JULY, 1959

TABLE 80

AHMEDABAD, INDIA (23.0N, 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	80	70	70	69	70	68	74	91	98	103	106	116	124	130	138	143	144	144	147	135	112	96	91	81
	CNT	25	23	23	25	23	26	24	28	23	19	25	24	26	27	30	28	27	23	27	27	27	26	23	22
	UQ																								
	LQ																								
h'F2	MED									250	275	350	395	400	400	400	400	380	350	U					
	CNT									8	16	24	24	25	26	28	28	28	22	305					
	UQ																			6					
	LQ																								
h'F	MED	325	320	315	310	300	300	260	250	250	230	250	250	250	275	270	250	250	260	295	300	300	325	350	350
	CNT	26	24	24	25	24	27	25	27	19	15	15	17	16	19	22	21	18	16	24	24	24	25	24	23
	UQ																								
	LQ																								
(M3000)F2	MED	255	255	255	255	260	275	305	300	290	270	240	235	240	240	240	245	250	255	270	275	255	245	245	250
	CNT	26	23	22	25	23	26	25	27	24	20	21	23	25	26	28	27	26	22	25	26	25	25	23	23
	UQ																								
	LQ																								
foF1	MED										U														
	CNT									2	520	600	630	600	610	620	590	580	520						
	UQ										4	7	13	13	13	19	19	13	6						
	LQ																								
foE	MED							200	290	360	400	400	420	430	430	420	400	380	310	240					
	CNT							12	12	5	8	6	7	7	11	15	21	17	14	10	1				
h'E	MED							120	110	110	110	110	105	110	110	110	110	110	110	120					
	CNT							7	12	8	12	8	9	7	9	15	21	20	15	11					
foEs	MED	38	28	24	23	24	24	40	35	49	40	47	43	44	54	45	47	54	46	50	48	33	25	24	24
	CNT	26	24	25	24	24	27	26	25	26	22	25	24	22	23	27	27	27	22	25	26	25	25	25	25

SWEEP 0.0 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION. JULY, 1959

TABLE 81

BOMBAY, INDIA (19.0N, 72.8E) 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	D 87	D 83	D 73	D 65	D 58	D 64	D 74	D 85		D 100	D 109	D 113	D 120	D 124	D 126	D 129	D 131	D 129	D 125	D 115		D 104	D 100	D 92
	CNT	21	20	20	21	20	20	20	18		20	21	21	20	6	20	20	21	20	19	21	3	18	15	21
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED		U 280	U 280	U 300	U 300	U 320	U 325			U 280	U 270	U 255							U 285					
	CNT	3	7	9	8	7	8	7	4		7	8	5	4	2	1	3			5	1		1		1
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED										U 480	440	U 440				U 440								
	CNT							1	2		4	5	3	2		2	3	2	1						
h'E	MED										U 120	100	U 120				U 100								
	CNT							1	2		4	5	3	2		2	3	2	1						
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. JULY, 1959

TABLE 82

MADRAS, INDIA (13.1N, 80.3E) 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	98	90	80	72	60	62	86	108	111	112	114	114	115	116	116	118	121	126	122	115	116	108	100	98
	CNT	26	21	24	27	25	24	31	30	30	26	28	28	26	15	29	28	27	25	31	30	22	27	20	31
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED							310	295	260	240	230	230	225	U 220	225	220	225	U 240						
	CNT	1	1		3	2	4	20	24	25	14	20	20	21	9	19	18	10	7	3	4		1		
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 2.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. JULY, 1959

TABLE 83

TIRUCHY, INDIA (10.8N, 78.7E) 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	88	D 79	U 83	U 69	68	58	82	106	112	115	114	115	115	115	115	116	122		D 118	C 114	U 105	U 95	U 96	93
	CNT	10	10	9	9	17	22	27	28	29	25	28	26	28	19	27	21	15		29	20	5	9	9	9
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 275				U 300	345	325	300	265	240	235	230	225	225	225	230	230		U 250					U 260
	CNT	8	2	3	4	9	12	21	23	22	23	27	26	26	18	23	21	10		7	3		1	4	6
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. JULY, 1959

TABLE 84

KODAIKANAL, INDIA (10.2N, 77.5E) 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	85	84	83	72	70	54	78	103	112	116	116	114	112	110	114	121	120	113	104	94	104	94	96	93
	CNT	15	19	18	19	20	25	30	29	28	25	25	27	28	29	29	30	31	31	31	27	21	21	14	14
	UQ																								
	LQ																								
h'F2	MED										1		1	2				1							
	CNT																								
	UQ																								
	LQ																								
h'F	MED	340	320	310	290	250	240	270	245	230	220	210	205	200	210	220	225	240	255	280	340	390	380	365	350
	CNT	29	31	29	30	29	30	30	29	26	24	22	26	24	27	26	29	27	21	29	30	19	30	26	26
	UQ																								
	LQ																								
(M3000)F2	MED	270	270	270	280	300	315	300	285	260	235	220	220	220	215	210	220	225	240	240	230	225	230	250	260
	CNT	15	19	18	19	20	25	30	29	28	25	25	27	28	29	29	30	31	31	31	27	21	21	14	14
	UQ																								
	LQ																								
foF1	MED												1		2			1							
	CNT																								
foE	MED							220	300								380		490						
	CNT							6	11		2	2			1		5	1	7						
h'E	MED							120	110	110							115	115	120						
	CNT							9	20	10	4	1	2	3	3	4	7	9	13						
foEs	MED	43	42	69	29			0	40	114	124	136	137	135	137	138	117	108	90	69	40	34	28	40	40
	CNT	15	12	9	6	2	2	13	29	27	23	24	27	28	29	29	30	31	31	25	9	9	14	19	17

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. JULY, 1959

TABLE [illegible]

TRIVANDRUM, INDIA (8.5N, [illegible]

TIME [illegible]

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	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	76	104	116	125	12[illegible]	118	116	115	117	113	117	123	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	30	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]	[illegible]	31	31	[illegible]	31	[illegible]	14	11	10	11
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

WEEP 1.5 MC TO 18.5 MC IN 5 MINUTES. MAGNAMOTO-ERATION.

JULY, 1959

TABLE 86

RAROTONGA (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	60	52	54	43	36	38	52	96	114	126	127	120	118	120	118	122	124	128	110	87	81	80	70	62
	CNT	26	25	24	26	28	27	29	26	28	27	27	29	29	29	30	26	25	19	18	17	19	23	26	26
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	275	285	305	300	260	270	280	315	315	305	300	290	285	280	270	278	285	290	290	280	268	280	270	275
	CNT	26	25	24	25	27	26	28	26	28	27	27	29	28	29	30	26	23	16	17	16	18	23	25	25
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	E	F	F	F	F	F		24	26	G	F	G	G	G		38	38	36	38	32	30	30	26	27	13
	CNT	27	27	27	27	29	28	29	27	28	28	28	25	29	29	30	29	29	30	29	29	29	28	29	28

WEEP 1.0 MC TO 22.0 MC IN 7 SECONDS.

JULY, 1959

TABLE 87

CAMPBELL I. (52.5S, 169.2E)

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	42	48	46	46	44	40	35	47	61	82	91	104	110	108	105	99	88	73	55	50	50	53	52	54
	CNT	24	25	28	27	28	27	25	27	28	26	23	23	23	20	23	21	22	24	25	25	22	24	24	25
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	245	250	250	250	260	260	260	270	300	310	310	310	300	300	300	300	295	280	275	250	240	245	240	245
	CNT	27	23	23	26	28	27	24	23	28	26	23	23	22	18	19	19	19	23	24	22	19	18	22	21
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	36	29	23	[illegible]	18	14	16	[illegible]	[illegible]	[illegible]	[illegible]	40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	14	17	[illegible]	27	[illegible]	31
	CNT	29	27	29	28	28	26	24	25	24	24	23	21	23	22	20	21	23	19	26	25	25	27	29	26

WEEP 1.0 MC TO 13.0 MC IN 2 MINUTES.

JULY, 1959

TABLE 88

RAROTONGA (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	64	53	52	41	36	39	58	104	128	134	128	125	127	124	122	123	125	126	118	91	84	80	73	64
	CNT	28	25	26	26	26	28	29	28	30	30	29	29	29	30	28	29	24	24	15	17	22	28	29	28
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	275	280	290	285	260	260	270	300	300	305	295	285	275	275	270	260	270	280	280	265	260	265	275	270
	CNT	27	25	24	25	25	28	29	28	30	30	29	29	29	30	28	25	20	18	12	15	21	27	29	28
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	F	E	F	E	E	F	E	G	G	G	G	G	G	41	35	G	32	31	30	30	22	12	E	E
	CNT	29	29	29	27	29	29	29	29	30	30	29	29	29	29	29	30	30	30	30	30	30	30	30	30

WEEP 1.0 MC TO 22.0 MC IN 7 SECONDS.

JUNE, 1959

TABLE 84

CAMPBELL I. (52.5S, 169.2E) 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	U 45	44	40	41	42	40	37	36	61	86	97	108	110	110	110	105	96	77	67	60	55	48	46	U 45
	CNT	26	22	23	27	24	23	25	27	27	26	27	28	29	26	25	23	24	27	27	24	24	24	22	24
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	245	250	245	255	255	260	265	265	300	305	305	300	300	295	295	290	290	280	270	270	265	260	250	250
	CNT	18	22	26	27	21	26	25	26	27	26	25	26	22	21	18	18	21	27	24	24	20	21	20	18
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	36	[illegible]	23	18	E 1	E 11	16	18	21	26	30	32	31	G	G	G	18	E 14	E 12	16	21	23	26	35
	CNT	28	[illegible]	27	27	21	18	26	27	25	27	27	29	29	29	29	28	28	29	24	27	29	29	26	25

SWEEP 1.5 MC TO 24.7 MC IN 2 MINUTES. JUNE, 1959

TABLE 90

DELHI, INDIA (28.6N, 77.2E) 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	D 91	D 96		U 84	D 83	D 85	D 96	107	106	114	128	131	141	D 144	D 149	D 143	D 136	D 128	D 125	D 118	D 110	D 104	D 98	D 94
	CNT	30	25	3	8	24	24	28	15	21	23	20	23	20	26	24	27	30	39	28	28	24	22	25	28
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 280				U 265	U 280	315	315	300	280	270	270	270	U 280	U 280	U 280	U 285	U 280	U 300					
	CNT	6	1		2	5	6	11	12	15	16	17	14	14	8	7	9	8	8	7	2	2	2	4	4
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT									2	1		1		1	1		1							
h'E	MED																								
	CNT									2	1		1		1	1		1							
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.7 MC IN 5 MINUTES, MANUAL OPERATION. MAY, 1959

TABLE 91

AHMEDABAD, INDIA (23.0N, 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	117	112	96	90	86	82	90	100	108	118	124	131	141	152	D 152	D 153	U 154	155	153	142	132	129	128	119
	CNT	27	27	24	24	24	21	25	25	24	25	27	26	25	19	23	23	18	26	28	29	28	29	27	28
	UQ																								
	LQ																								
h'F2	MED										400	400	400	400	400	400	400	350	350						
	CNT										25	21	22	22	21	21	22	26	26						
	UQ																								
	LQ																								
h'F	MED	31[illegible]	[illegible]	[illegible]	[illegible]	27[illegible]	27[illegible]	255	25[illegible]	26[illegible]	260	260	280	280	300	300	275	250	250	265	300	325	340	340	330
	CNT	27	27	[illegible]	24	25	24	25	25	24	11	5	4	8	5	6	6	7	22	28	29	28	29	28	29
	UQ																								
	LQ																								
(M3000)F2	MED	26[illegible]	6[illegible]	[illegible]	[illegible]	27	27[illegible]	295	[illegible]	27[illegible]	255	240	235	240	245	245	240	250	255	255	255	240	240	245	250
	CNT	[illegible]	27	24	24	24	21	25	25	24	25	27	27	27	21	19	21	24	26	24	29	28	29	26	28
	UQ																								
	LQ																								
foF1	MED									46[illegible]	50[illegible]	[illegible]	6[illegible]	66	6[illegible]	6[illegible]	65[illegible]		5[illegible]						
	CNT									4	3	4	4	8	5	4	5		5						
foE	MED							[illegible]	[illegible]	33	[illegible]	[illegible]	[illegible]	40[illegible]		4[illegible]	40[illegible]	36[illegible]	41[illegible]	22					
	CNT							8	3	[illegible]	4	4	3	3	2	3	7	13	18	12					
h'E	MED							13[illegible]	12[illegible]	11[illegible]	12[illegible]	11[illegible]	11	11[illegible]	11	11[illegible]	11[illegible]	11[illegible]	11[illegible]	10[illegible]					
	CNT							[illegible]	6	11	10	[illegible]	[illegible]	[illegible]	4	6	12	18	16						
foEs	MED	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	22	35	35	36	45	47	48	47	44	38	[illegible]	[illegible]	33	23	22	21	22	31
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	25	24	25	23	22	2[illegible]	16	14	8	7	8	12	21	25	28	27	24	[illegible]	28	23

SWEEP 1.5 MC TO 12.4 MC IN 5 MINUTES, AUTOMATIC OPERATION. MAY, 1959

TABLE 92

BOMBAY, INDIA (19.0N, 72.8E) 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	D 124	114	12[illegible]	97	D 85	D 84	D 87	D 91		D 121	D 128	D 130	D 135	D 134	D 137	D 138	D 139	D 128	D 137	D 132		D 128	D 123	D 123
	CNT	13	12	8	11	24	28	30	27		28	30	31	23	11	29	30	30	27	28	29	1	17	17	15
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED			[illegible]	[illegible]	[illegible]	U 32[illegible]	[illegible]	U 32[illegible]		28[illegible]	26[illegible]				U 255	U 270								
	CNT	4	4	[illegible]	[illegible]	10	8	4	3		12	10	4	4	1	6	7	4	1	4	1		1	1	2
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							[illegible]	U 38[illegible]		43	46[illegible]	45[illegible]	42[illegible]		42[illegible]	39[illegible]	40[illegible]	U 43[illegible]						
	CNT							4	4		11	17	7	6	4	9	11	8	3	1					
h'E	MED							[illegible]	[illegible]		11[illegible]	10[illegible]	10[illegible]	10[illegible]		10[illegible]	10[illegible]	10[illegible]	U 10[illegible]						
	CNT							4	4		11	10	8	6	2	9	11	8	3	1					
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. MAY, 1959

TABLE 94

TIRUCHY, INDIA (10.8N, 78.7E) 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				97	L 95	82	97	118	124	128	122	122	119	122	122	128	U 118	U 117	D 111					
	CNT	2	2	3	8	11	22	20	25	24	18	28	28	29	28	24	23	19		31	17	2	3	3	2
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED						340	320	295	265	240	225	225	225	220	220	225								
	CNT					3	12	11	15	18	16	24	25	27	25	21	18	4		4	1			1	
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. MAY, 1959

TABLE 95

KODAIKANAL, INDIA (10.2N, 77.5E) 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	108	101	102	98	94	79	92	114	124	127	120	116	118	118	118	123	127	127	126	114	99	U 104	U 108	U 115
	CNT	9	10	12	14	20	25	27	27	30	29	31	30	30	31	29	29	31	31	24	30	10	8	8	7
	UQ																								
	LQ																								
h'F2	MED																								
	CNT											1													
	UD																								
	LQ																								
h'F	MED	280	280	290	260	230	220	260	240	230	220	215	210	210	210	215	220	240	260	300	400	400	380	320	300
	CNT	27	29	29	29	30	30	30	30	30	29	31	30	29	31	29	28	28	29	29	30	13	17	17	26
	UQ																								
	LQ																								
(M3000)F2	MED	260	260	270	285	305	315	295	285	255	235	220	215	210	215	210	215	220	230	225	210	U 220	U 240	U 255	U 255
	CNT	9	10	12	14	20	25	27	29	30	29	31	30	30	31	29	29	31	31	24	30	10	8	8	7
	UQ																								
	LQ																								
foF1	MED																								
	CNT											1													
foE	MED							220	310									330							
	CNT							10	12	3					1	1	4	6	2						
h'E	MED																								
	CNT																								
foEs	MED	60	43	36	39			0		120	130	141	145	149	142	138	124	106	90	U 37			34	34	34
	CNT	6	11	10	7	2		16	91 30	30	29	31	30	30	31	29	29	31	29	6		1	5	12	16

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. MAY, 1959

TABLE

TRIVANDRUM, INDIA (8.5N, 77.0E) 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	U 95	U 96		U 92	D 90	78	91	118	130	134	127	120	121	120	119	124	128	D 126	D 120	D 100		U 97	U 101	U 95
	CNT	6	5	3	8	11	15	25	28	30	22	23	27	26	29	27	28	26	28	28	15	1	5	6	5
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED						325	310	295	280	250	235	230	225	225	225	225	230	U 240						
	CNT				1	4	13	21	24	28	19	17	21	24	28	26	24	22	8	4	1				
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. MAY, 1959

TABLE 97

RAROTONGA I. (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	73	67	64	58	49	47	73	119	134	141	147	136	137	140	141	134	142	U 146	U 143	U 1[illegible]	U [illegible]	[illegible]	[illegible]	77
	CNT	27	29	29	29	31	31	29	30	29	31	31	31	30	30	31	29	28	26	14	9	17	21	24	27
	UD																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	305	[illegible]	295	260	270	265	260	255	260	260	U 270	L 270	275	270	278	270	268
	CNT	27	4	24	29	31	31	29	26	15	31	31	31	30	30	31	24	28	23	14	6	13	20	23	26
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E	E	G	G	G	[illegible]	41	42	43	40	34	32	30	30	23	18	12	E
	CNT	31	31	31	33	31	31	31	31	30	31	30	24	28	29	31	31	31	31	31	31	31	30	31	31

SWEEP 1.1 MC TO 22.0 MC IN 7 SECONDS. MAY, 1954

TABLE 98

CAMPBELL I. (52.5S, 169.2E) 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	[illegible]	55	53	52	48	46	46	53	73	93	105	111	118	113	121	119	U 112	97	80	64	60	55	58	56
	CNT	26	28	27	28	28	26	27	30	31	28	29	31	29	27	26	19	26	25	27	28	22	24	24	26
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	245	250	250	250	260	260	264	275	300	300	295	290	290	290	U 285	290	U 290	290	280	265	265	250	250	240
	CNT	23	25	25	28	26	28	29	30	30	28	26	28	26	23	20	13	22	23	27	28	21	23	23	24
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	[illegible]	[illegible]	[illegible]	17	[illegible]	E 12	E 12	E 12	G	G	G	G	G	G	G	G	E 18	E 15	E 13	E 12	20	21	23	24
	CNT	30	29	29	27	26	25	25	28	24	27	26	28	27	24	24	23	26	27	29	27	26	29	29	24

SWEEP 1.2 MC TO 13.0 MC IN 2 MINUTES. MAY, 1954

TABLE 99

RAROTONGA I. (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	92	84	75	72	68	92	124	134	144	149	154	162	169	161	162	162	156	154	139	132	136	124	131
	CNT	16	22	26	27	28	27	26	28	30	30	33	32	30	29	24	23	24	20	16	9	4	6	7	13
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UD																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	260	265	275	260	265	275	290	310	295	280	275	260	260	255	255	255	255	260	260	U 260	J 280	270	260	260
	CNT	14	17	23	2	24	27	25	24	31	31	33	31	31	29	22	21	26	19	15	6	1	2	3	10
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E	E				E	E	E	E	E	E	E	E	E				E
	CNT	[illegible]	23	[illegible]	28	28	28	28	27	27			31	29	28	[illegible]	32	27	29	4	30	30	32	32	32

SWEEP 1.0 MC TO 22.0 MC IN [illegible] SECONDS. APRIL, 1957

TABLE 100

CAMPBELL I. (52.5S, 169.2E) 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	64	58	58	55	[illegible]	48	51	70	88	100	113	115	D 120	D 130	D 136	D 122	U 120	U 118	105	90	76	73	67	59
	CNT	24	26	28	25	32	24	24	32	24	30	28	28	28	28	27	25	22	21	27	24	28	28	28	29
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	235	235	241	240	245	250	260	280	295	291	280	280	270	265	264	275	280	U 280	265	260	250	245	240	240
	CNT	21	26	27	28	30	29	29	30	29	28	25	22	17	17	18	16	18	20	26	29	27	28	27	29
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	[illegible]	[illegible]	[illegible]	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E 19	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SWEEP 1.0 MC TO 13.0 MC IN 2 MINUTES. MAY, 1954 APRIL, 1957

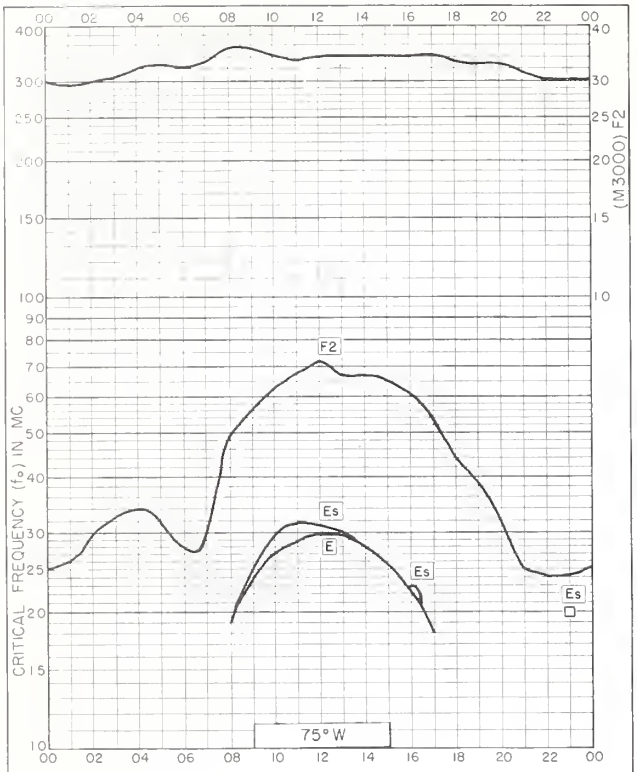

Fig. 1. WASHINGTON, D.C.
38.7°N, 77.1°W JANUARY 1962

NBS 503

Fig. 2. ANCHORAGE, ALASKA
61.2°N, 149.9°W DECEMBER 1961

NBS 503

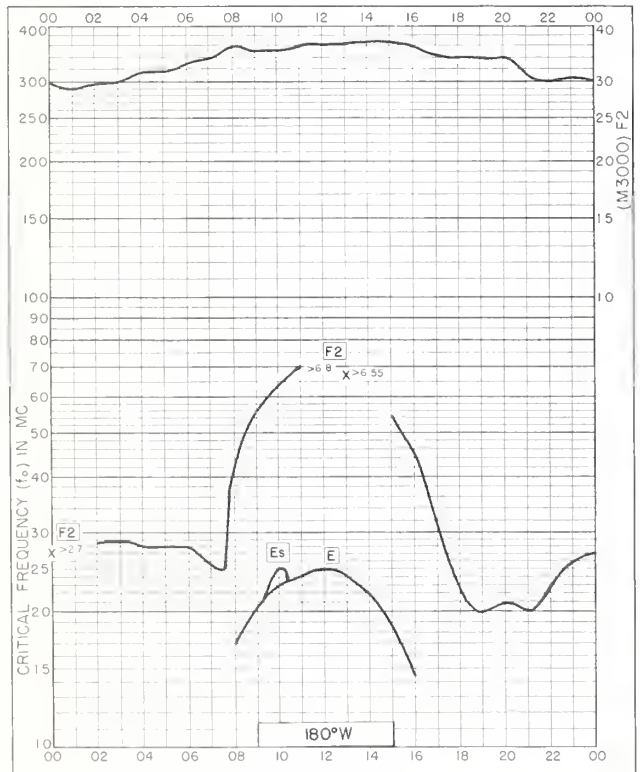

Fig. 3. ADAK, ALASKA
51.9°N, 176.6°W DECEMBER 1961

NBS 503

Fig. 4. WASHINGTON, D.C.
38.7°N, 77.1°W DECEMBER 1961

NBS 503

Fig. 5. TALARA, PERU
4.6°S, 81.3°W DECEMBER 1961

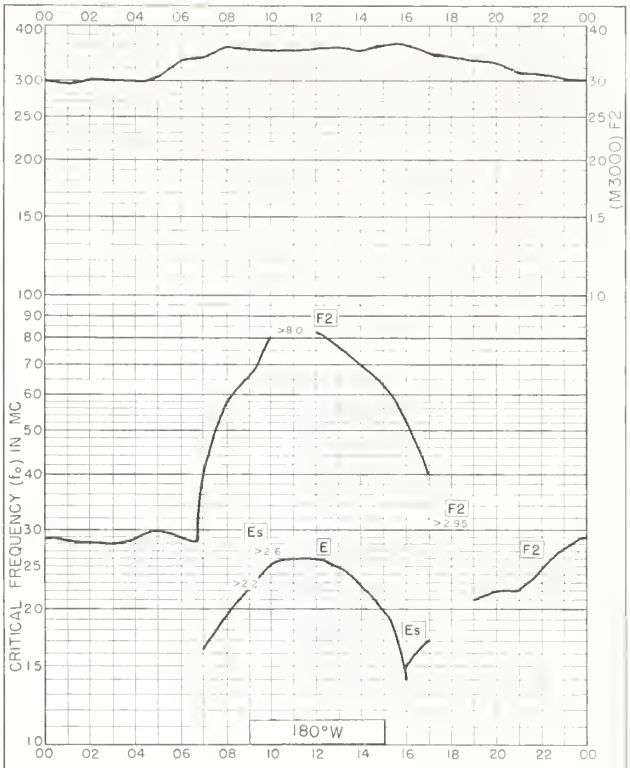

Fig. 6. ADAK, ALASKA
51.9°N, 176.6°W NOVEMBER 1961

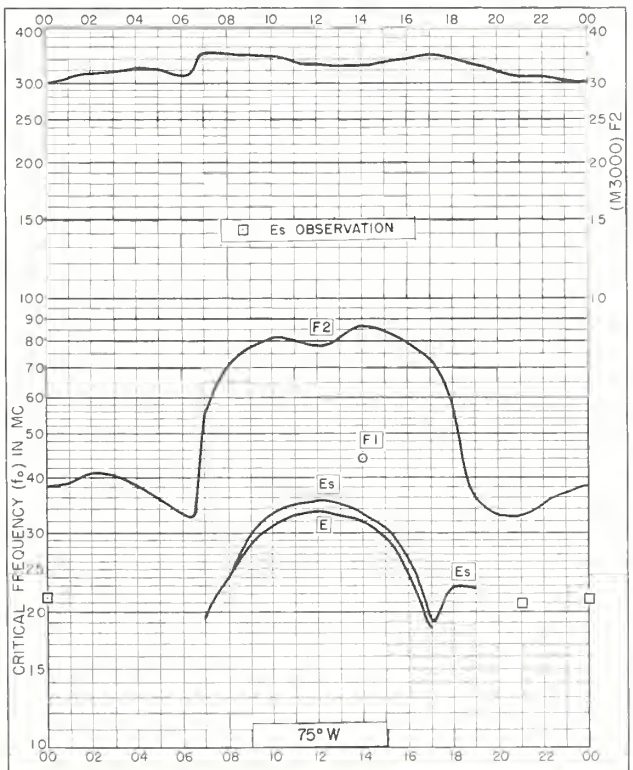

Fig. 7. GRAND BAHAMA I.
26.6°N, 78.2°W NOVEMBER 1961

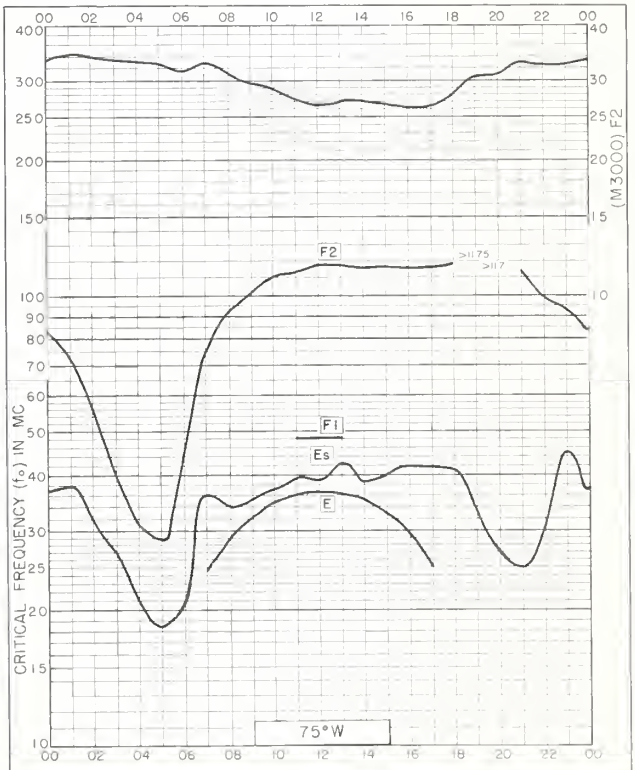

Fig. 8. TALARA, PERU
4.6°S, 81.3°W NOVEMBER 1961

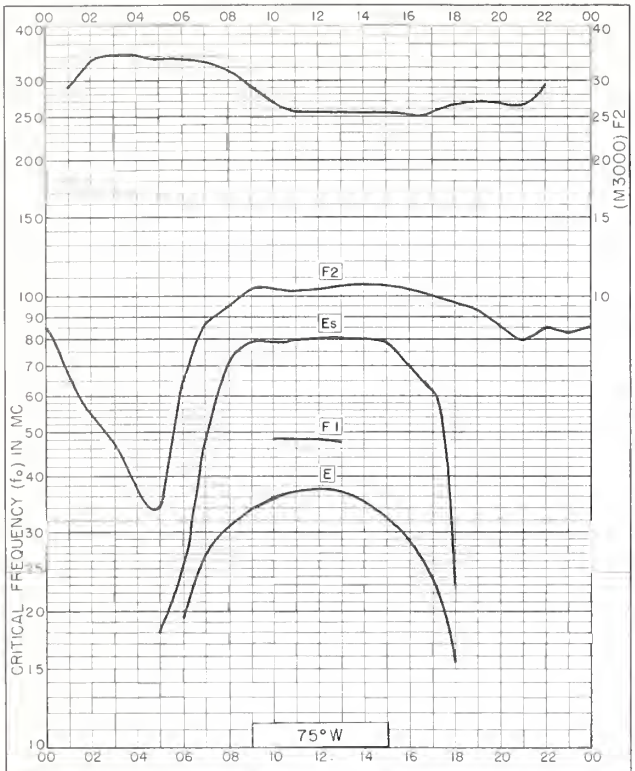

Fig. 9. HUANCAYO, PERU
12.0°S, 75.3°W NOVEMBER 1961

NBS 503

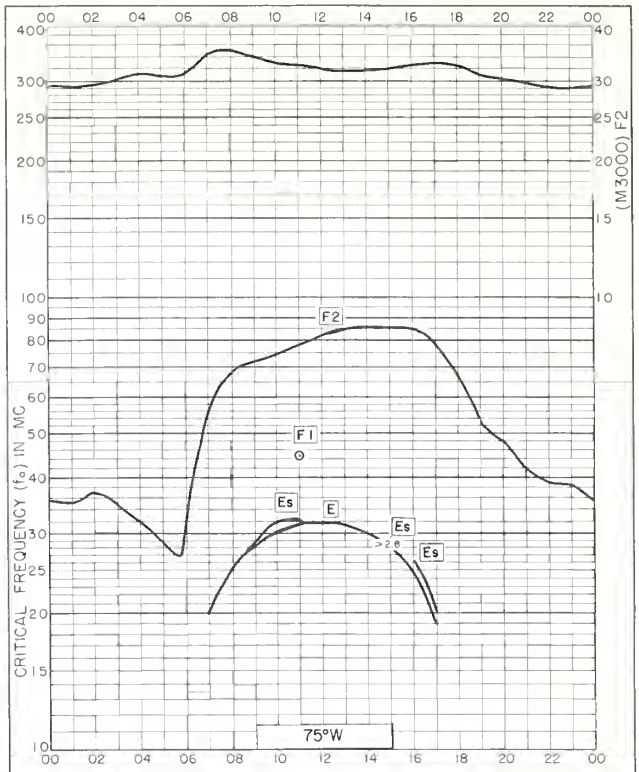

Fig. 10. WASHINGTON, D.C.
38.7°N, 77.1°W OCTOBER 1961

NBS 503

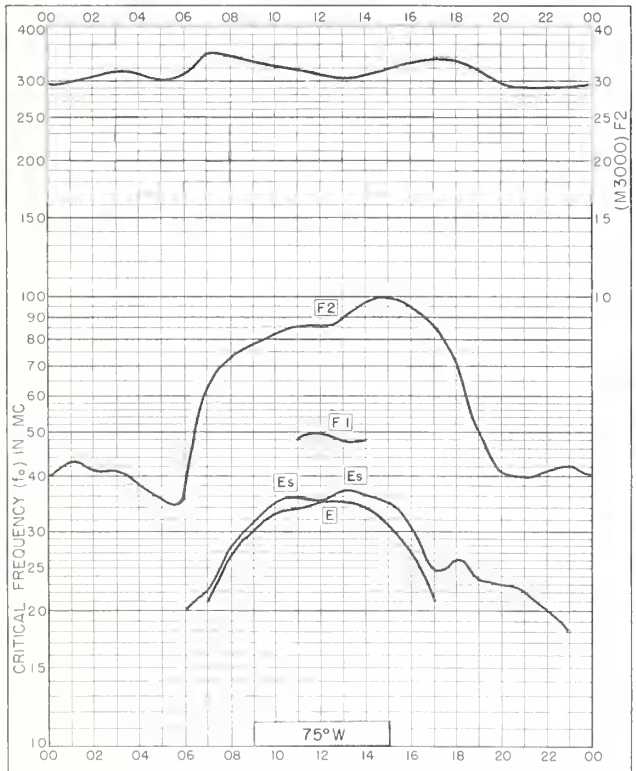

Fig. 11. GRAND BAHAMA I.
26.6°N, 78.2°W OCTOBER 1961

NBS 503

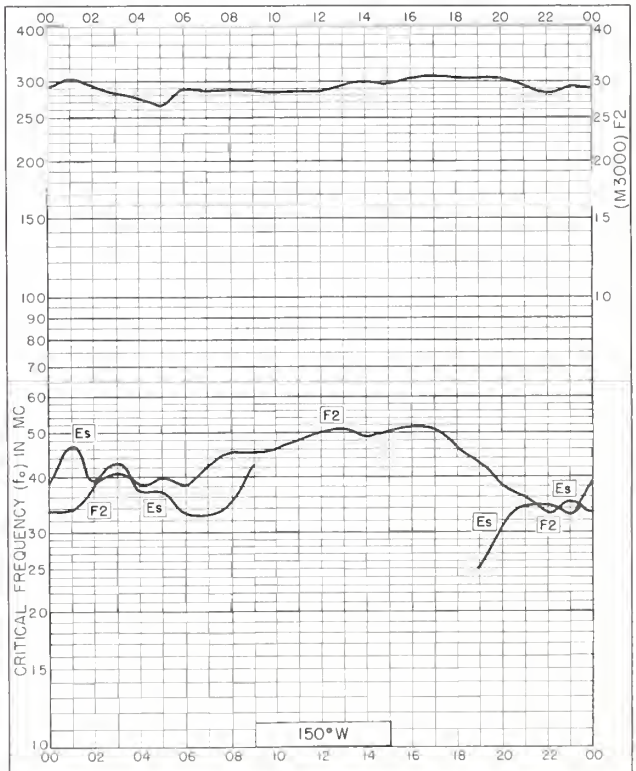

Fig. 12. POINT BARROW, ALASKA
71.3°N, 156.8°W SEPTEMBER 1961

NBS 503

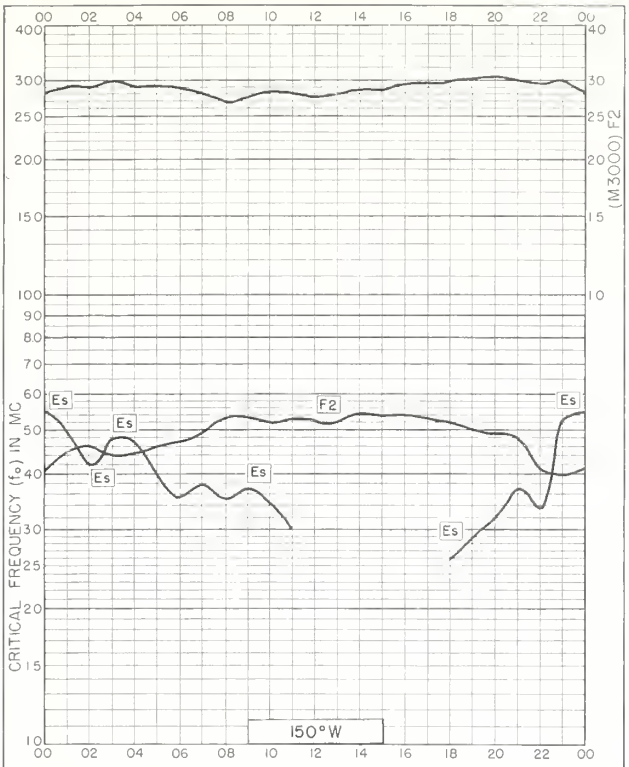

Fig. 13. POINT BARROW, ALASKA
71.3°N, 156.8°W AUGUST 1961

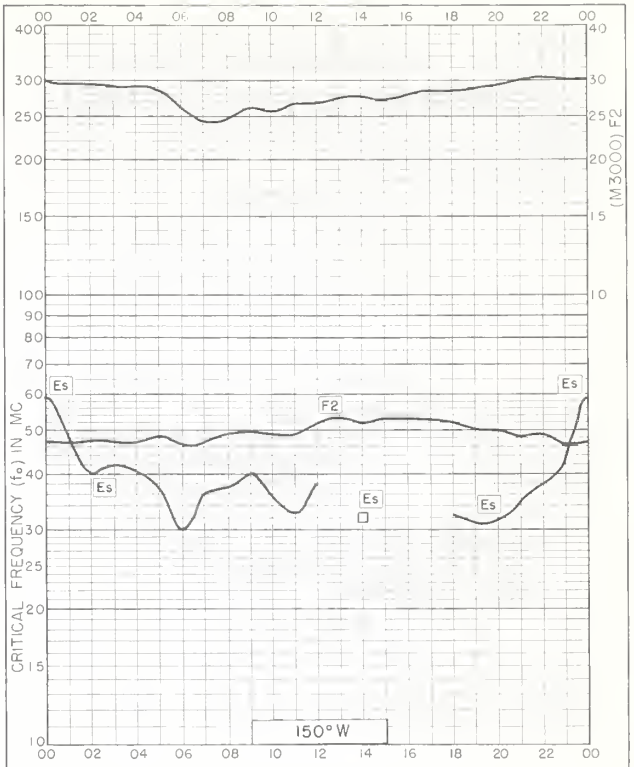

Fig. 14. POINT BARROW, ALASKA
71.3°N, 156.8°W JUNE 1961

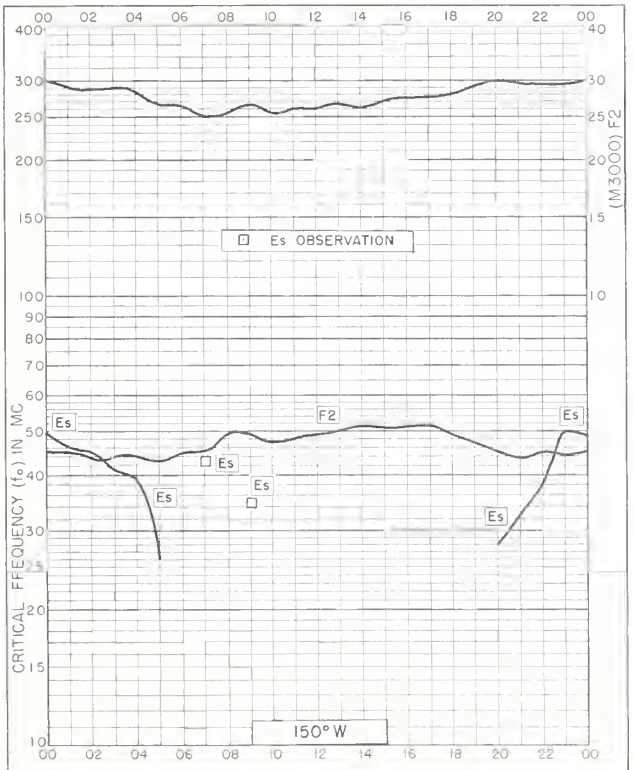

Fig. 15. POINT BARROW, ALASKA
71.3°N, 156.8°W MAY 1961

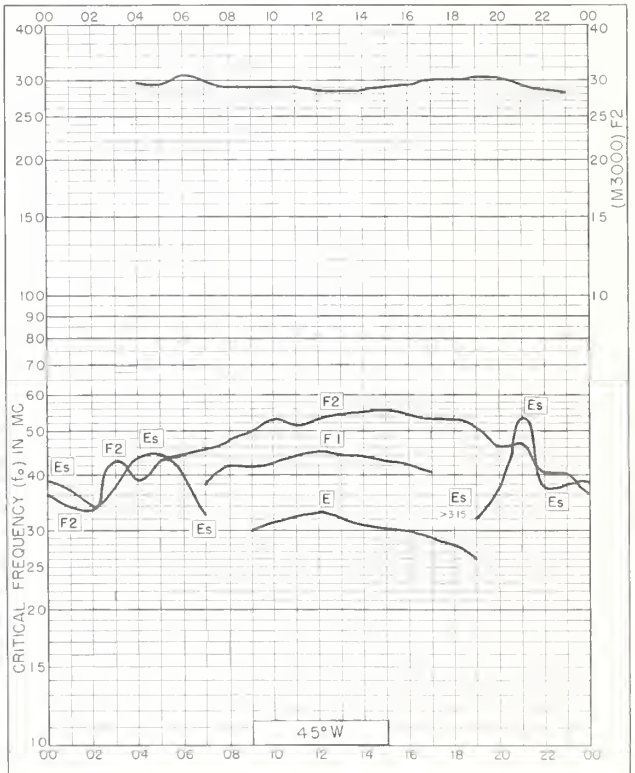

Fig. 16. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4°W MAY 1961

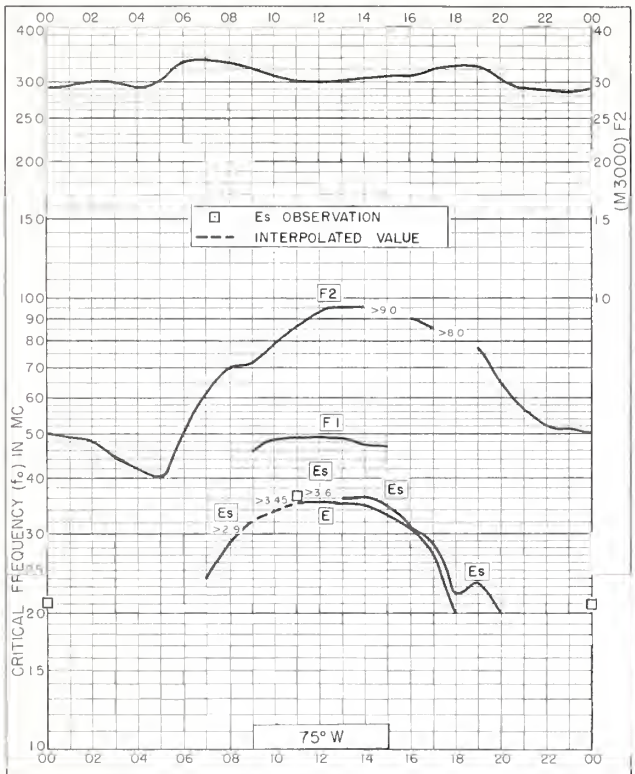

Fig. 17. GRAND BAHAMA I.
26.6°N, 78.2°W APRIL 1961

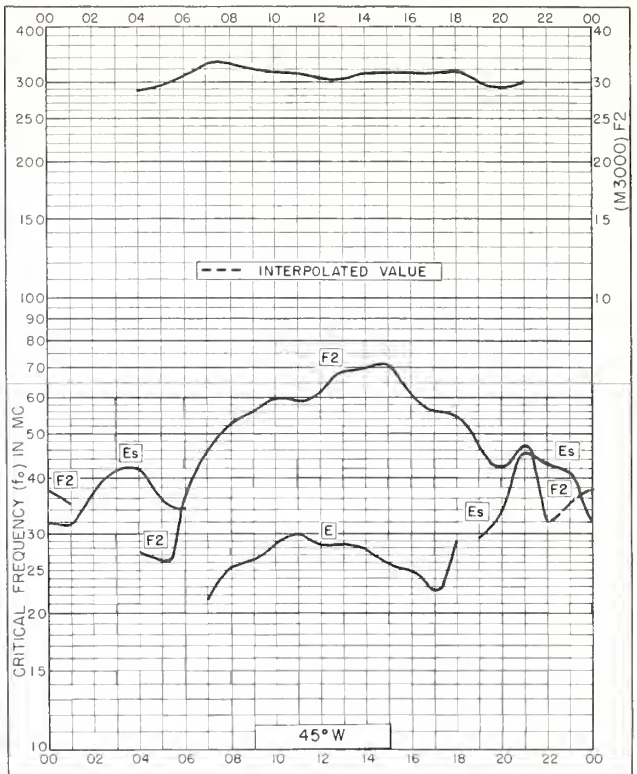

Fig. 18. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4°W MARCH 1961

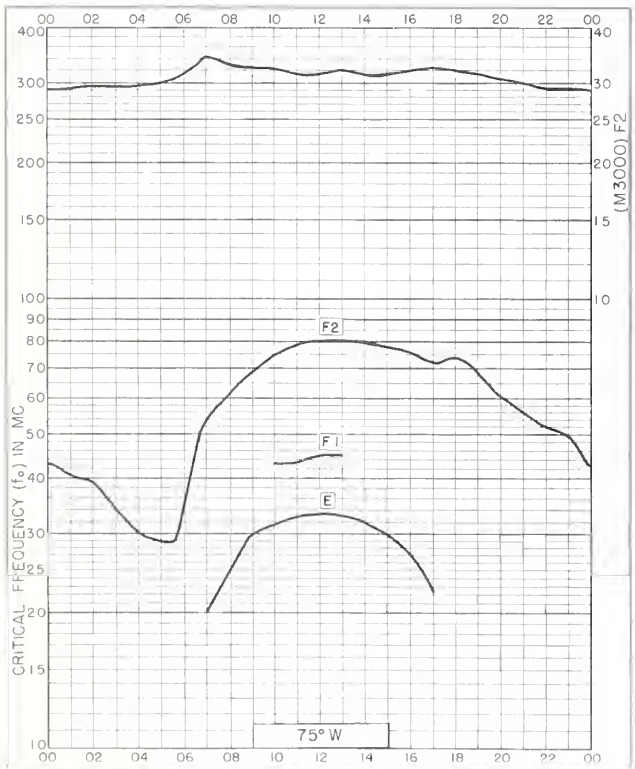

Fig. 19. FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1°W MARCH 1961

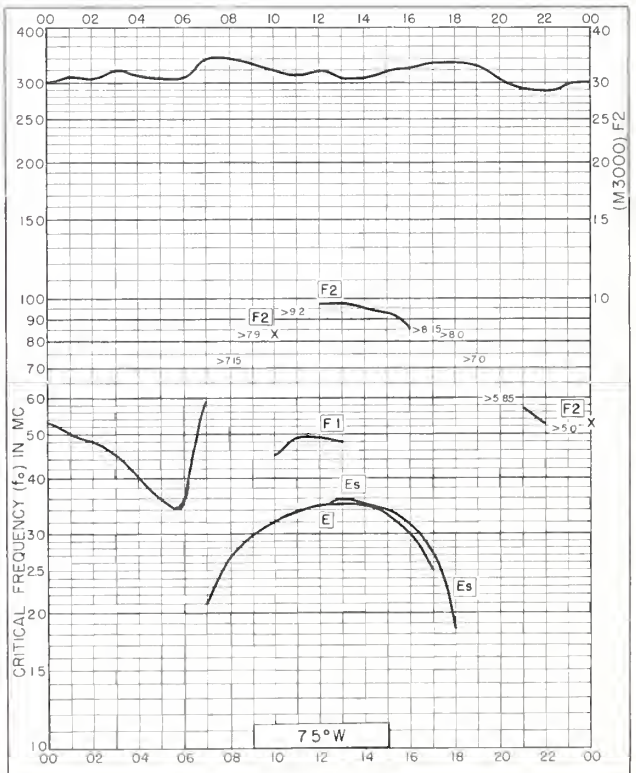

Fig. 20. GRAND BAHAMA I.
26.6°N, 78.2°W MARCH 1961

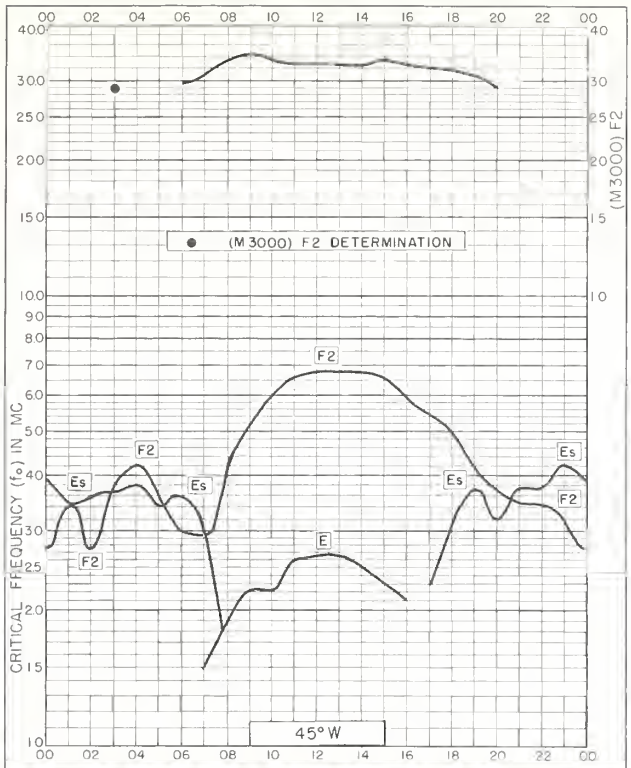

Fig. 21 NARSSARSSUAQ, GREENLAND
61.2°N, 45.4°W FEBRUARY 1961

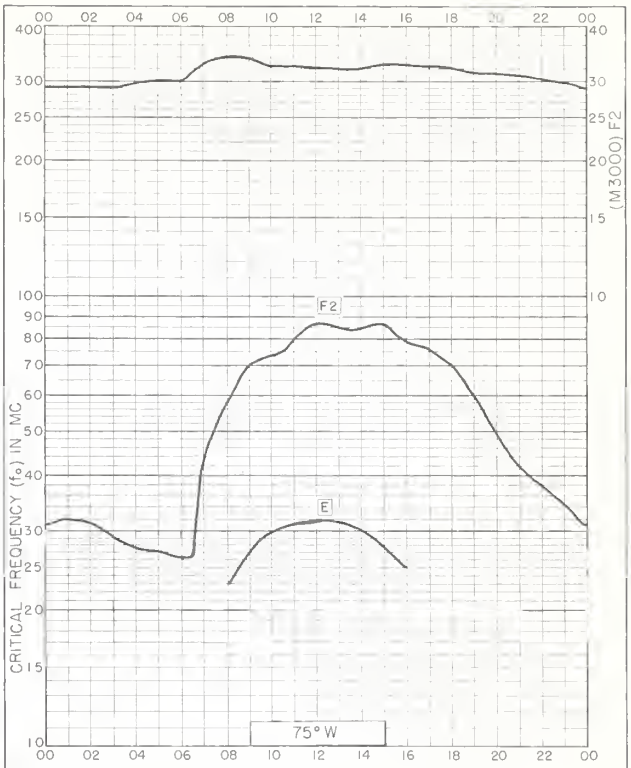

Fig. 22. FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1°W FEBRUARY 1961

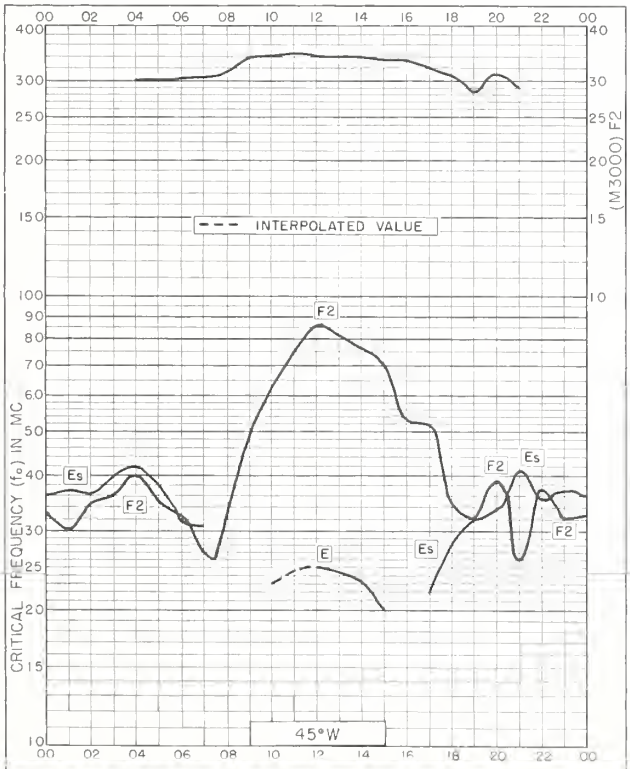

Fig. 23. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4°W JANUARY 1961

Fig. 24. FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1°W JANUARY 1961

Fig. 25. PARIS, FRANCE
48.1°N, 2.3°E DECEMBER 1960

Fig. 26. DAKAR, FRENCH W. AFRICA
14.8°N, 17.4°W DECEMBER 1960

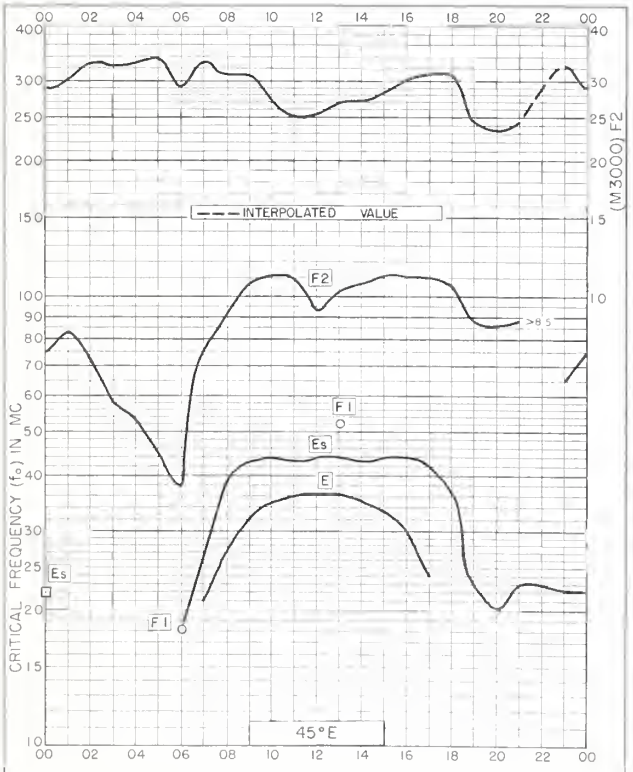

Fig. 27. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E DECEMBER 1960

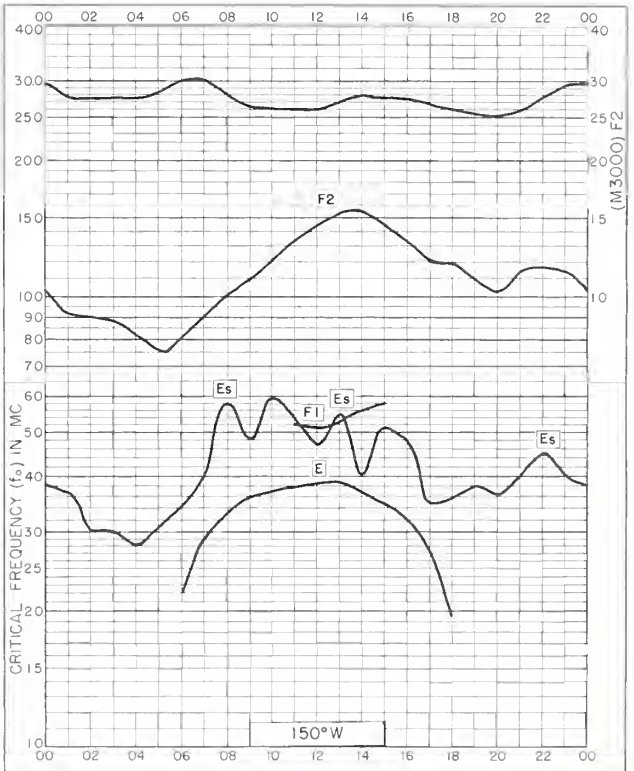

Fig. 28. TAHITI, SOCIETY IS.
17.7°S, 149.3°W DECEMBER 1960

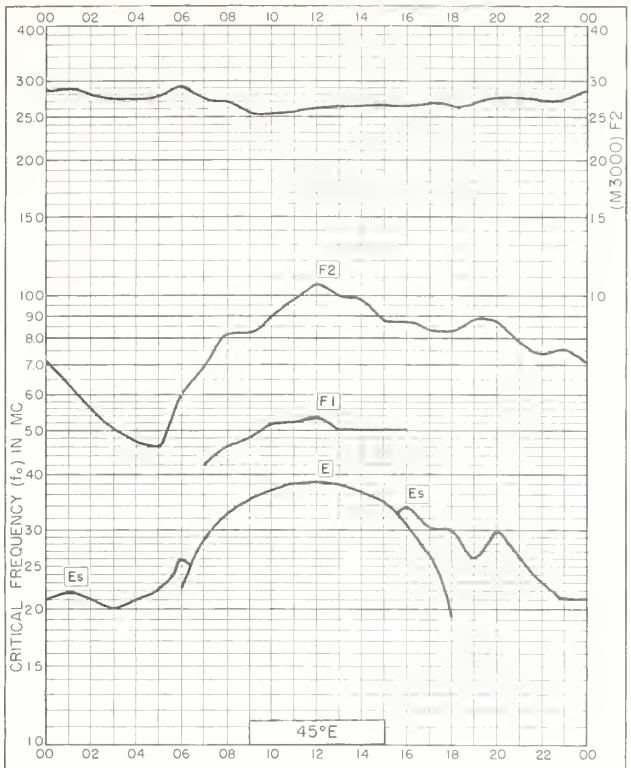

Fig. 29. TANANARIVE, MADAGASCAR
18.8°S, 47.5°E DECEMBER 1960

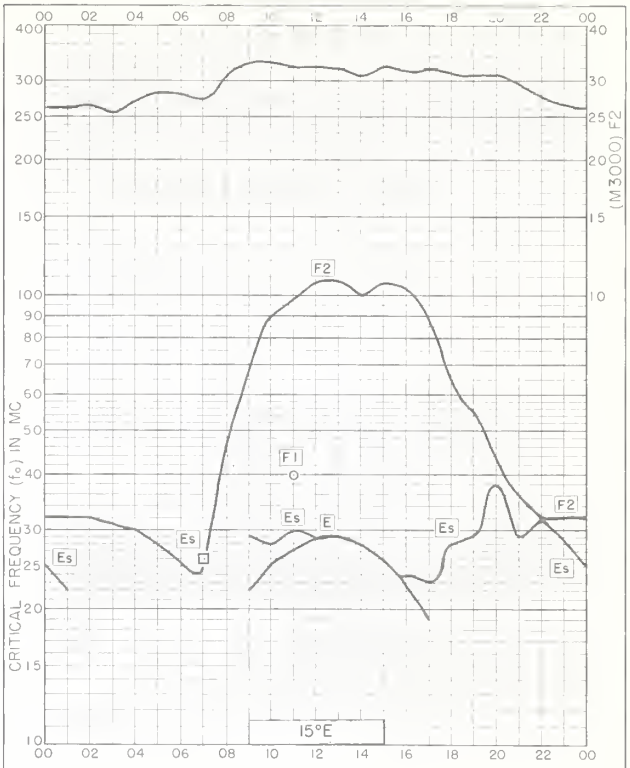

Fig. 30. PARIS, FRANCE
48.1°N, 2.3°E NOVEMBER 1960

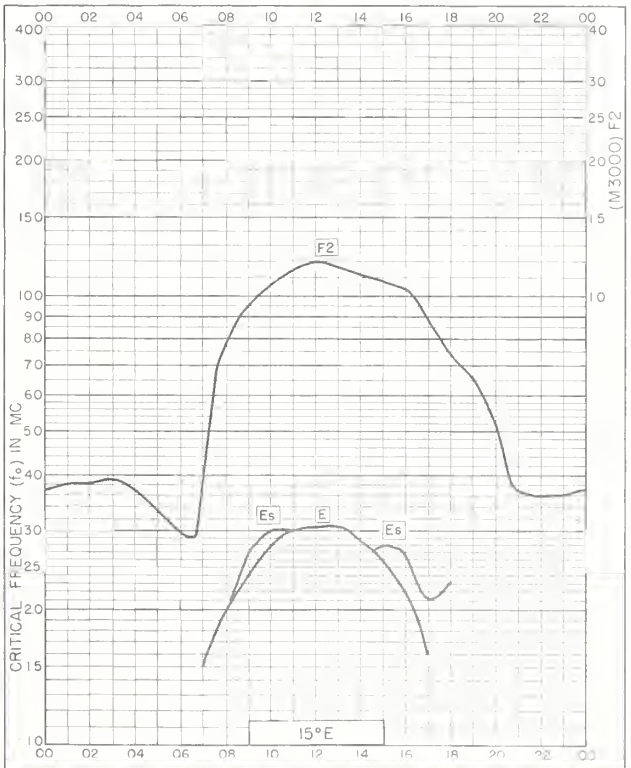

Fig. 31. GENOA (MONTE CAPELLINO), ITALY
44.6°N, 9.0°E NOVEMBER 1960

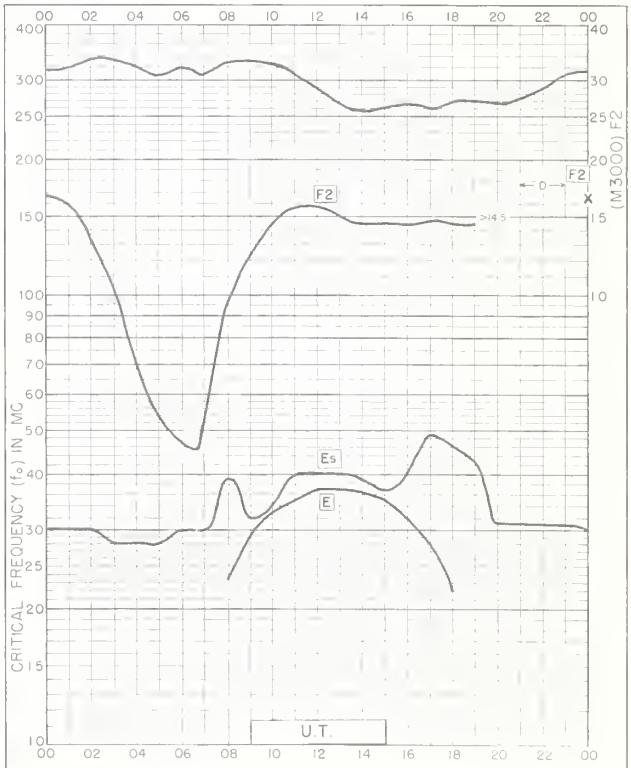

Fig. 32. DAKAR, FRENCH W. AFRICA
14.8°N, 17.4°W NOVEMBER 1960

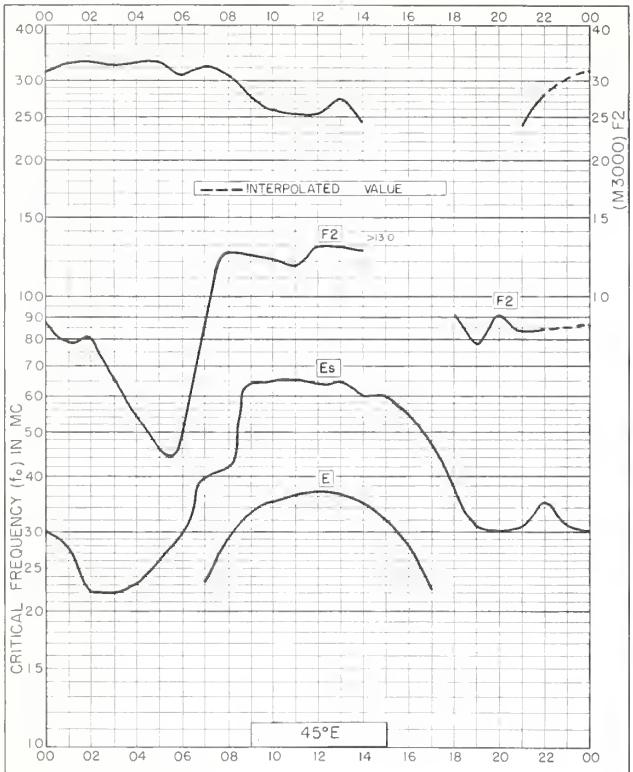

Fig. 33. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E NOVEMBER 1960

Fig. 34. TAHITI, SOCIETY IS.
17.7°S, 149.3°W NOVEMBER 1960

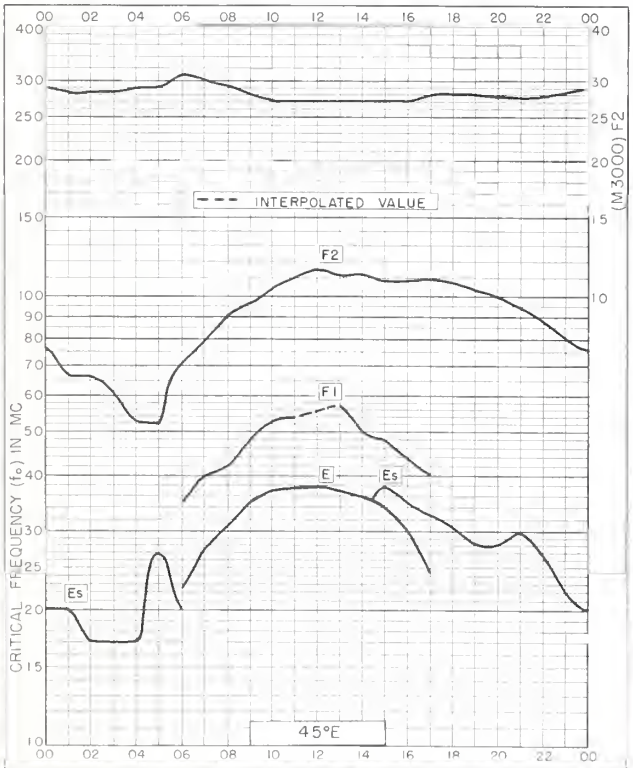

Fig. 35 TANANARIVE, MADAGASCAR
18.8°S, 47.5°E NOVEMBER 1960

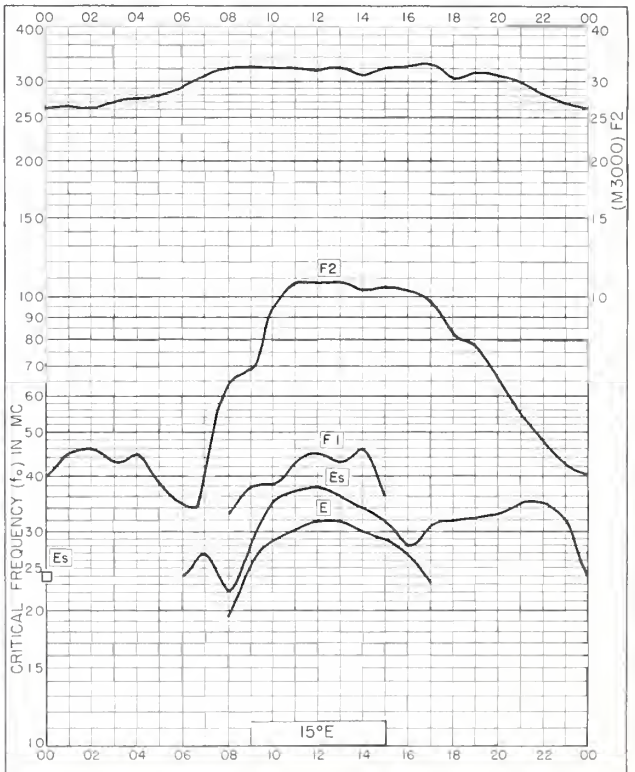

Fig. 36. PARIS, FRANCE
48.1°N, 2.3°E OCTOBER 1960

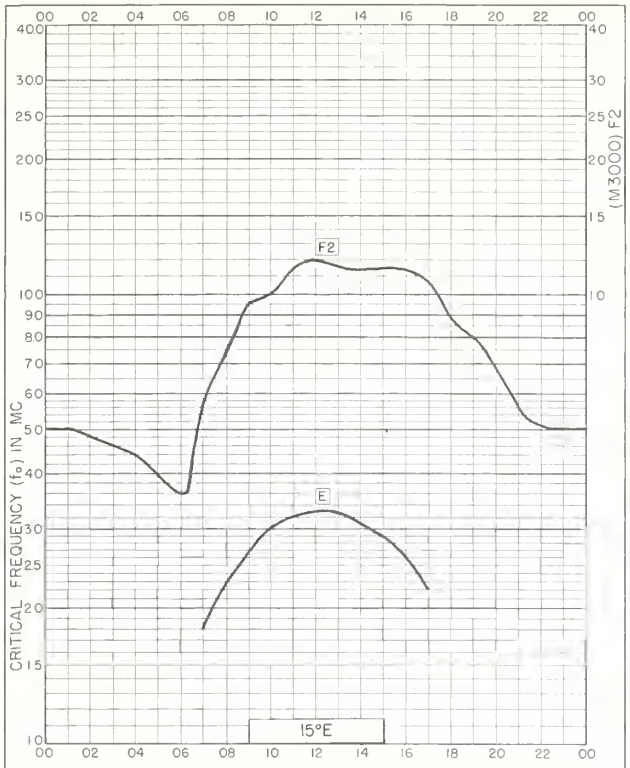

Fig. 37. GENOA (MONTE CAPELLINO), ITALY
44.6°N, 9.0°E OCTOBER 1960

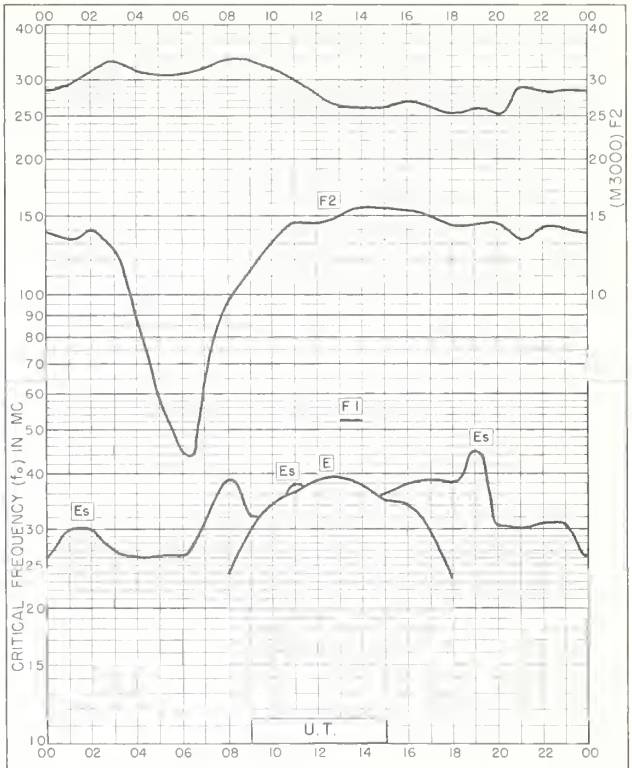

Fig. 38. DAKAR, FRENCH W. AFRICA
14.8°N, 17.4°W OCTOBER 1960

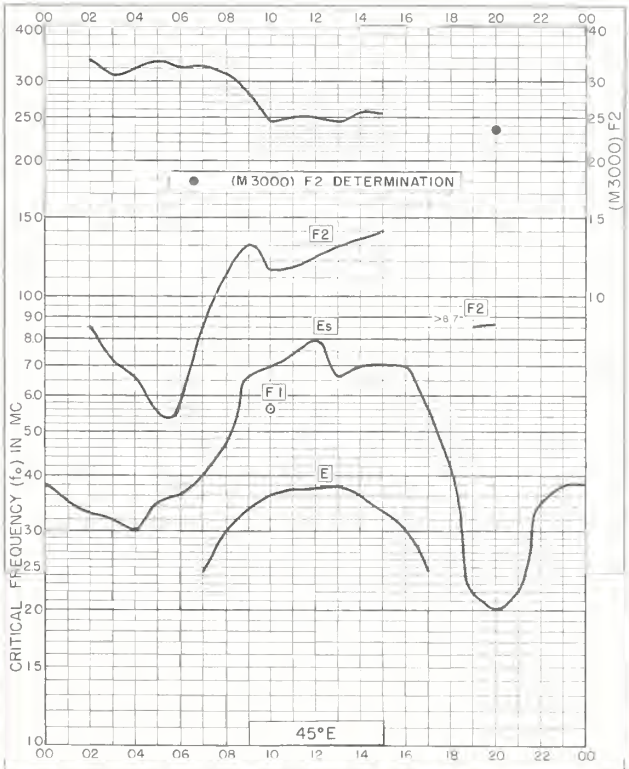

Fig. 39. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E OCTOBER 1960

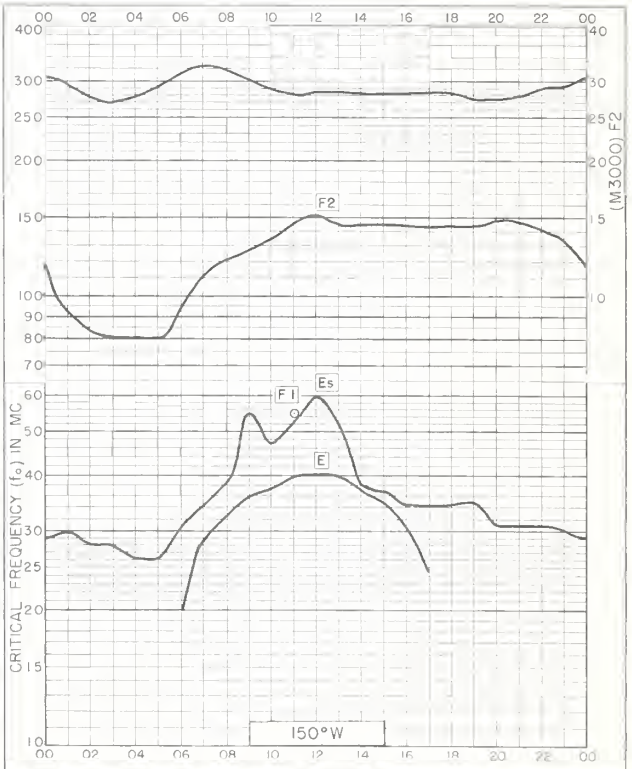

Fig. 40. TAHITI, SOCIETY IS.
17.7°S, 149.3°W OCTOBER 1960

Fig. 41. TANANARIVE, MADAGASCAR
18.8°S, 47.5°E OCTOBER 1960

Fig. 42. PARIS, FRANCE
48.1°N, 2.3°E SEPTEMBER 1960

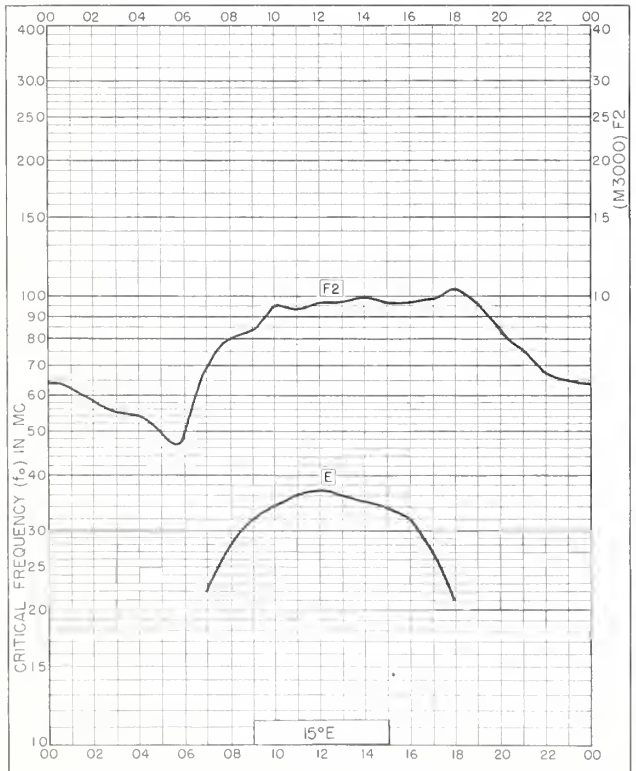

Fig. 43. GENOA (MONTE CAPELLINO), ITALY
44.6°N, 9.0°E SEPTEMBER 1960

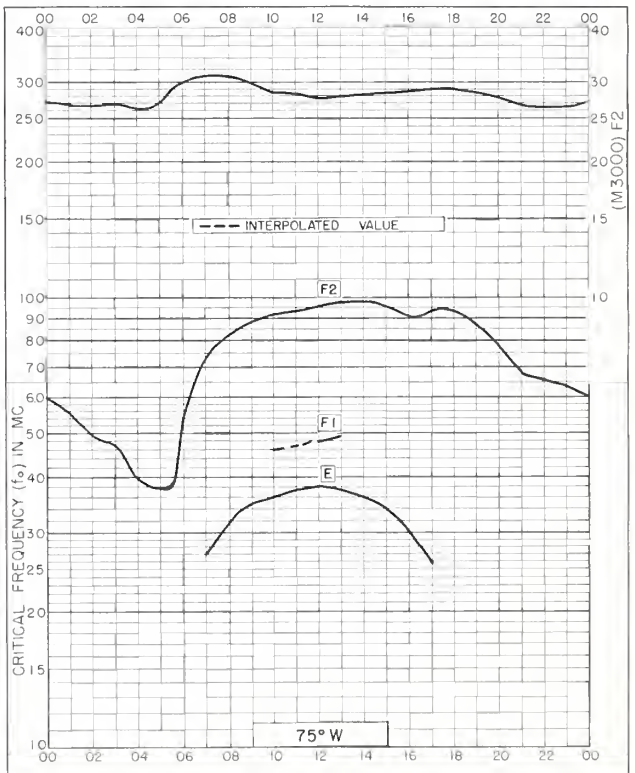

Fig. 44. FORT MONMOUTH, NEW JERSEY
40.4°N, 74.10°W SEPTEMBER 1960

Fig. 45. DAKAR, FRENCH W. AFRICA
14.8°N, 17.4°W SEPTEMBER 1960

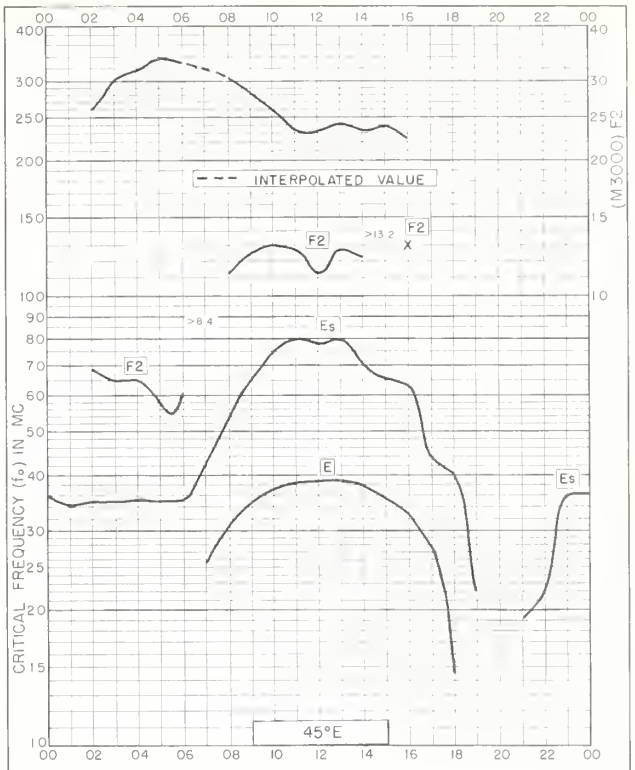

Fig. 46. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E SEPTEMBER 1960

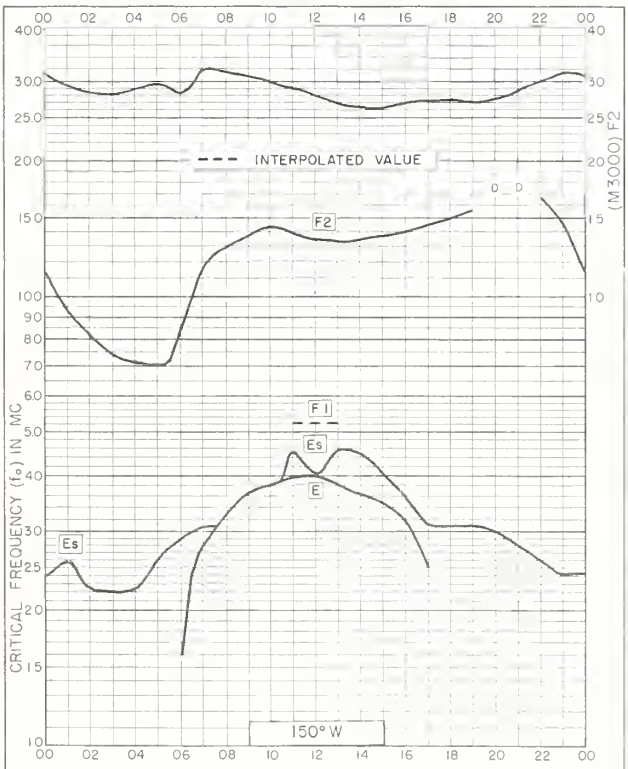

Fig. 47. TAHITI, SOCIETY IS.
17.7°S, 149.3°W SEPTEMBER 1960

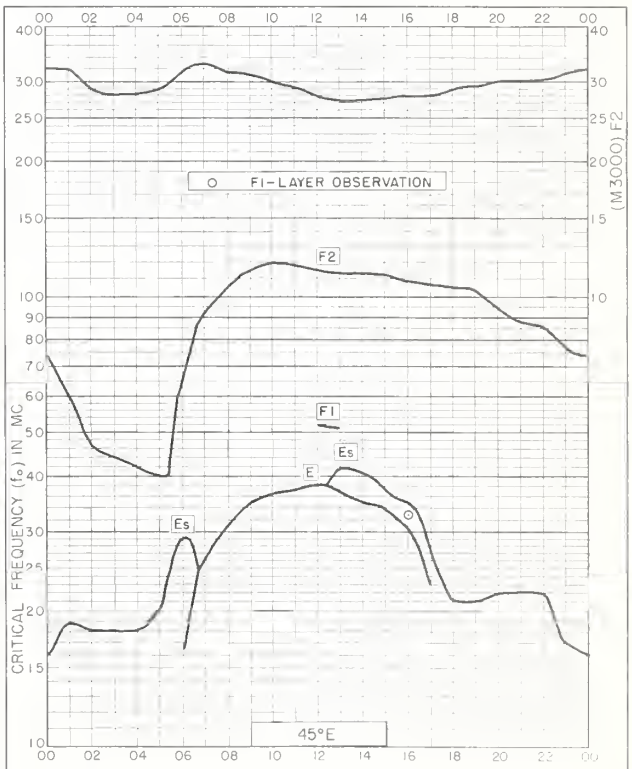

Fig. 48. TANANARIVE, MADAGASCAR
18.8°S, 47.5°E SEPTEMBER 1960

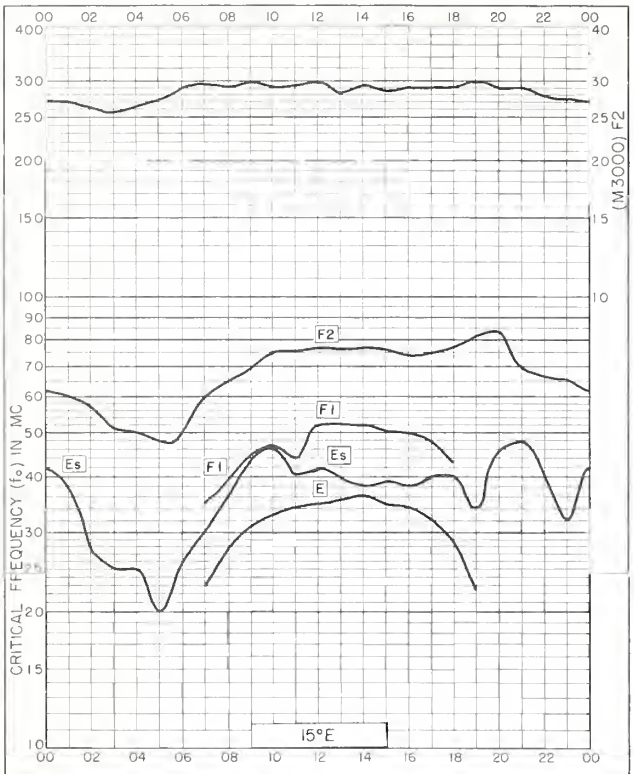

Fig. 49. PARIS, FRANCE
48.1°N, 2.3°E AUGUST 1960

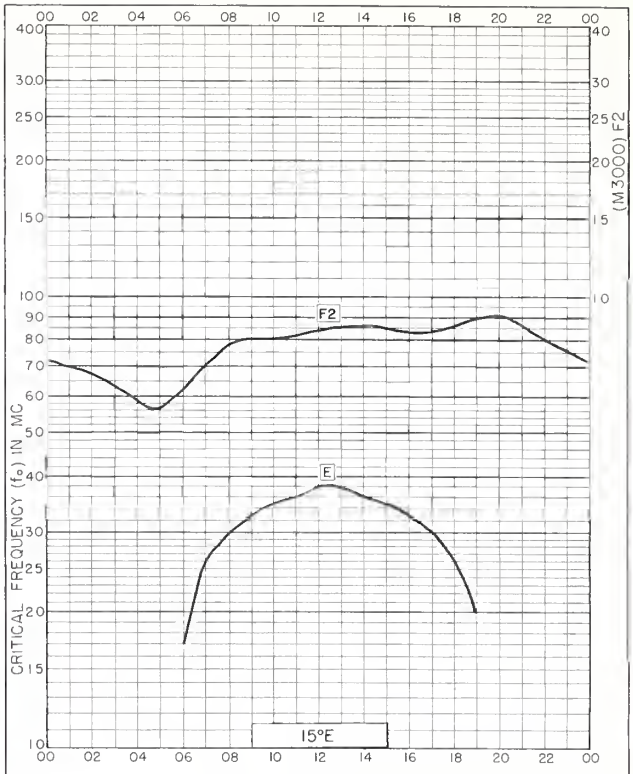

Fig. 50. GENOA (MONTE CAPELLINO), ITALY
44.6°N, 9.0°E AUGUST 1960

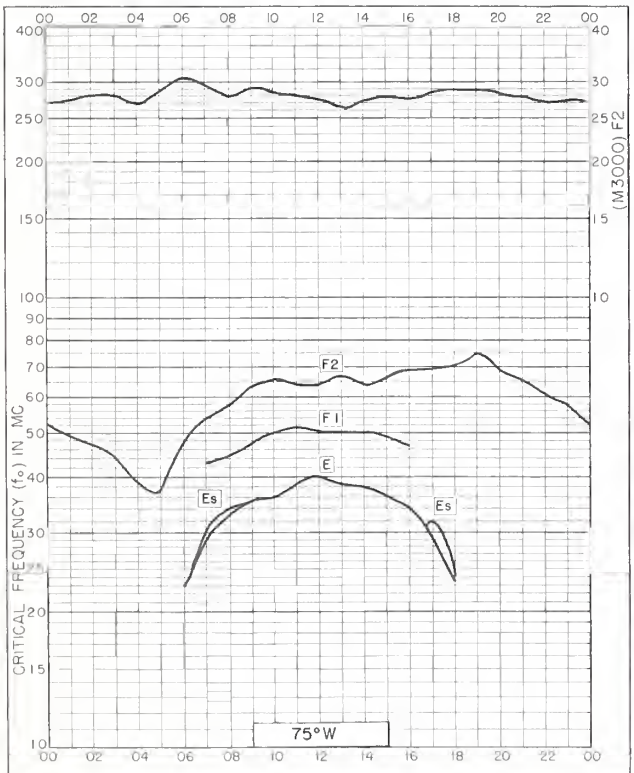

Fig. 51. FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1°W AUGUST 1960

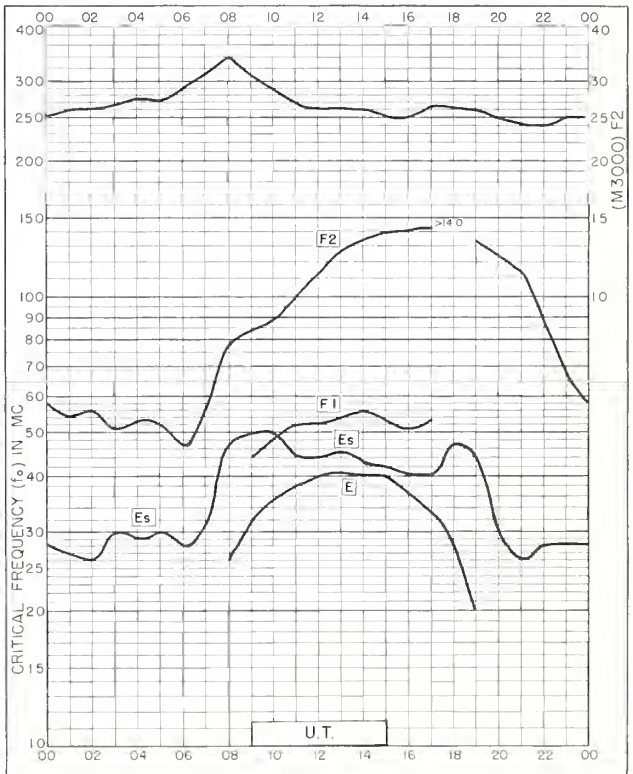

Fig. 52. DAKAR, FRENCH W. AFRICA
14.8°N, 17.4°W AUGUST 1960

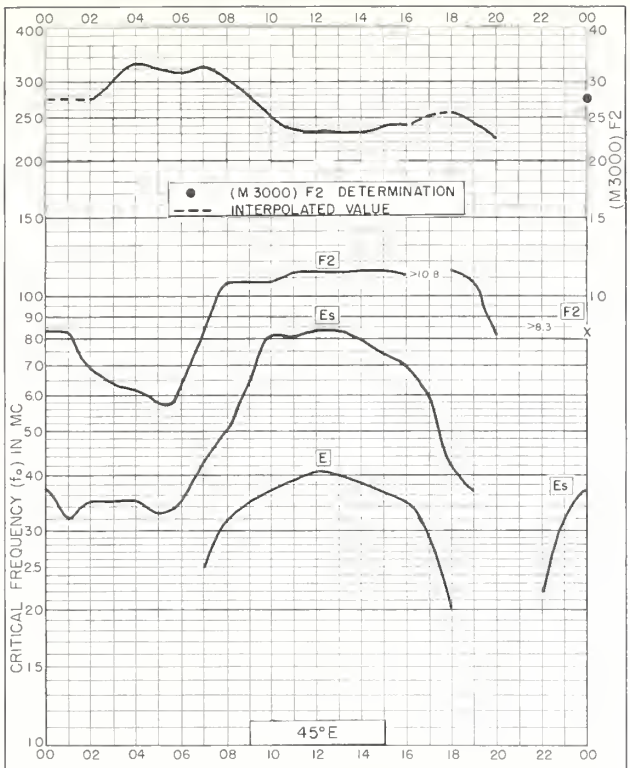

Fig. 53. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E AUGUST 1960

Fig. 54. TAHITI, SOCIETY IS.
17.7°S, 149.3°W AUGUST 1960

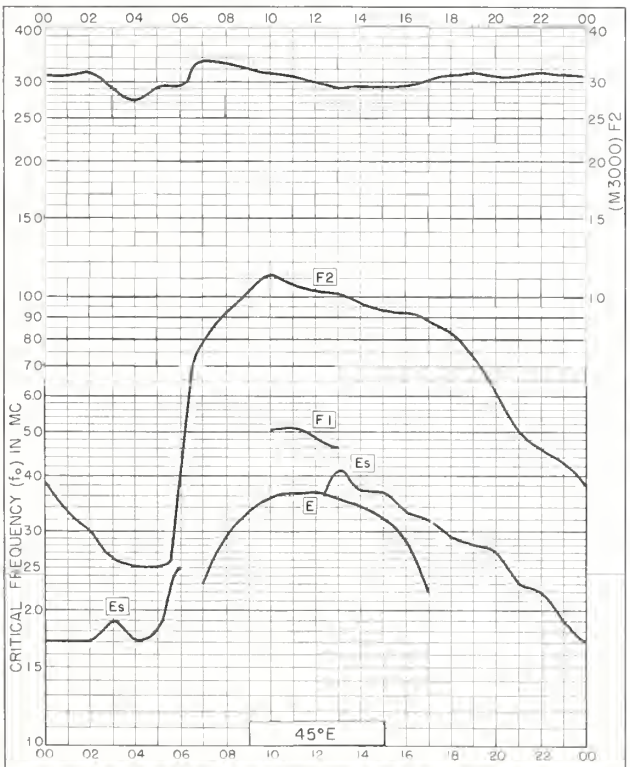

Fig. 55. TANANARIVE, MADAGASCAR
18.8°S, 47.5°E AUGUST 1960

Fig. 56. PARIS, FRANCE
48.1°N, 2.3°E JULY 1960

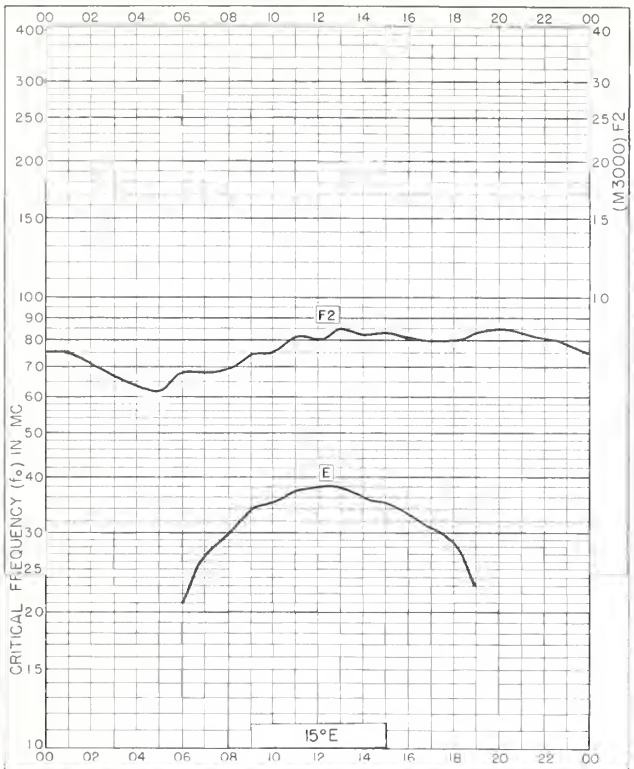

Fig 57 GENOA (MONTE CAPELLINO), ITALY
44.6°N, 9.0°E JULY 1960

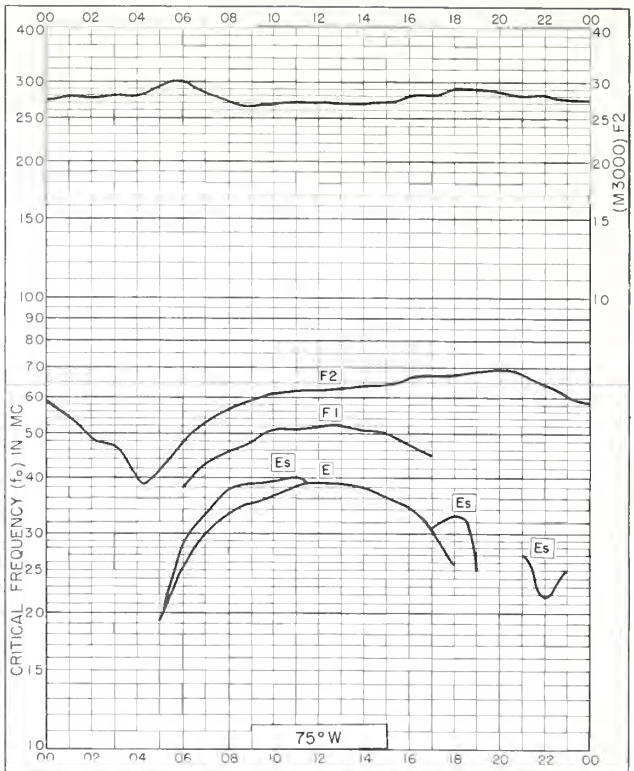

Fig. 58 FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1°W JULY 1960

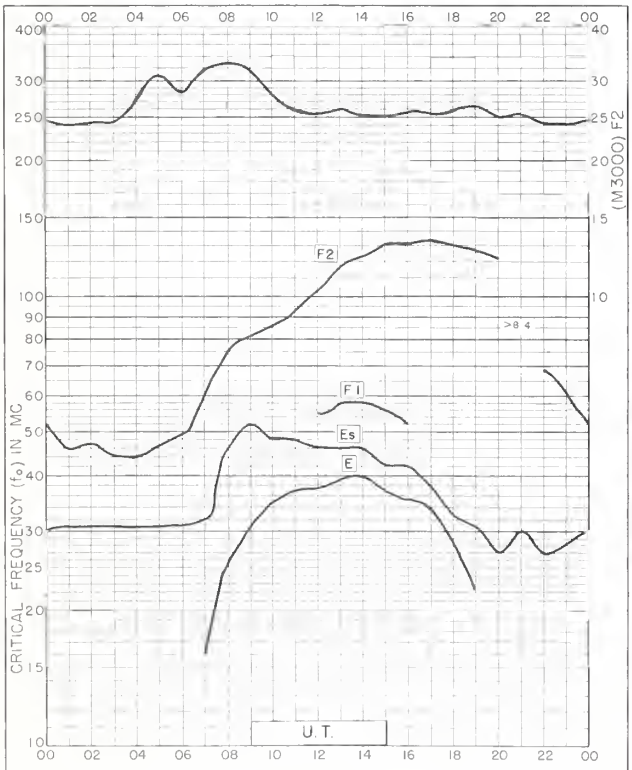

Fig. 59. DAKAR, FRENCH W. AFRICA
14.8°N, 17.4°W JULY 1960

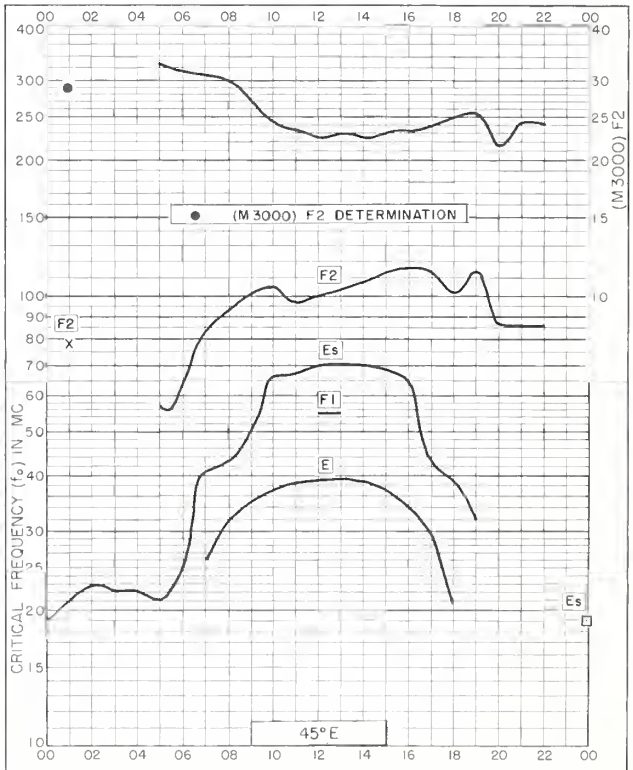

Fig. 60. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E JULY 1960

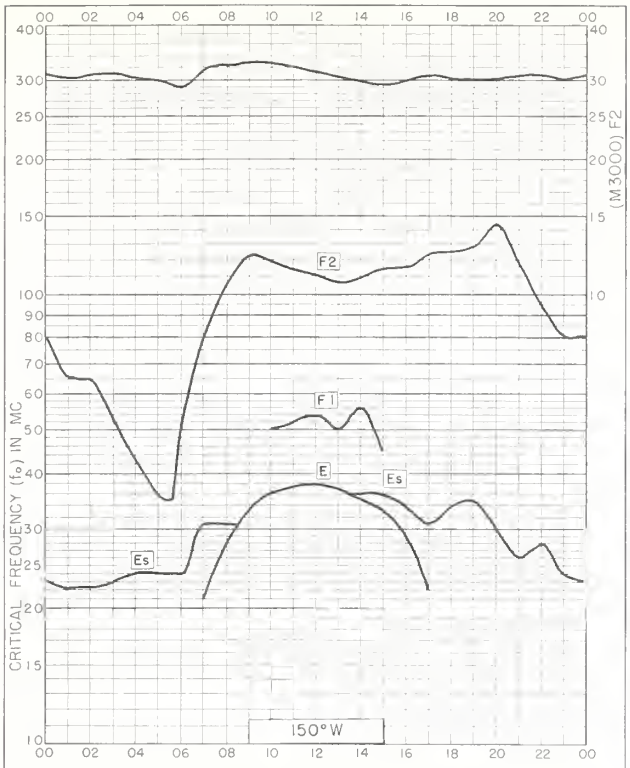

Fig. 61. TAHITI, SOCIETY IS.
17.7°S, 149.3°W JULY 1960

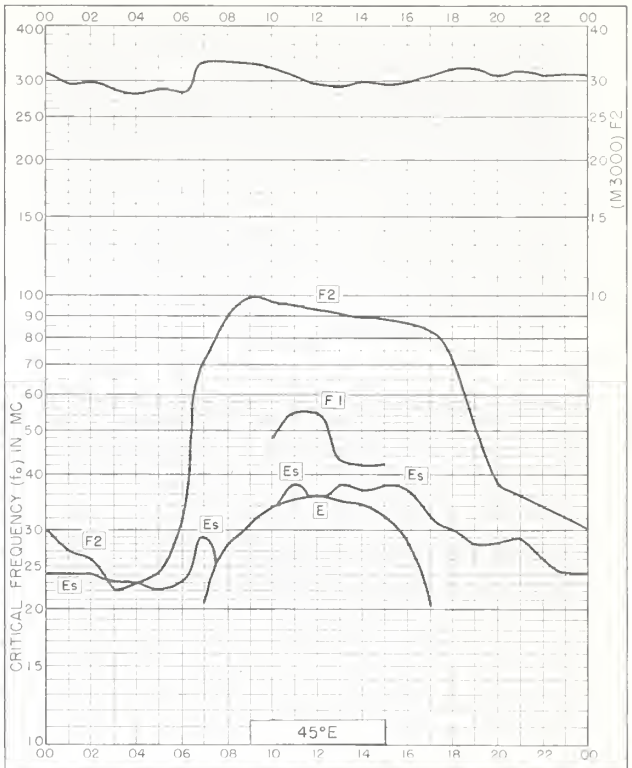

Fig 62. TANANARIVE, MADAGASCAR
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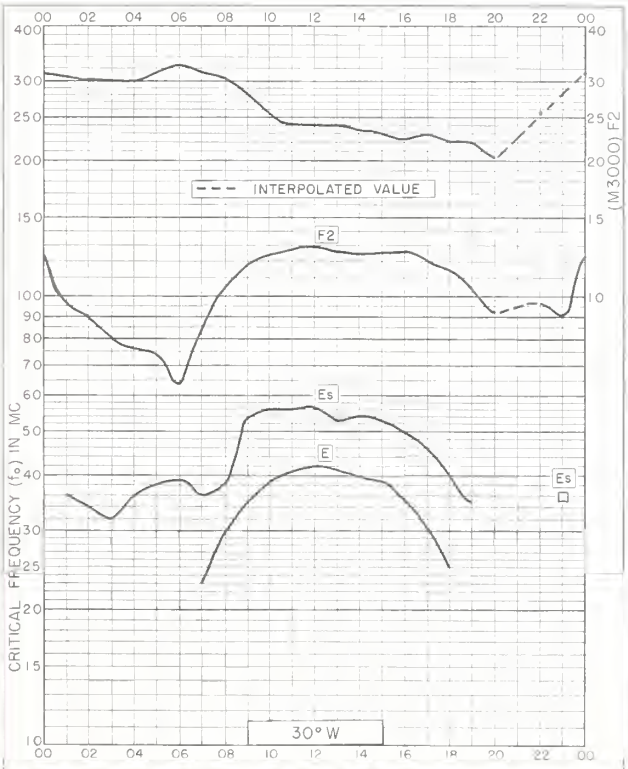

Fig. 63. NATAL, BRAZIL
5.7°S, 35.2°W FEBRUARY 1960

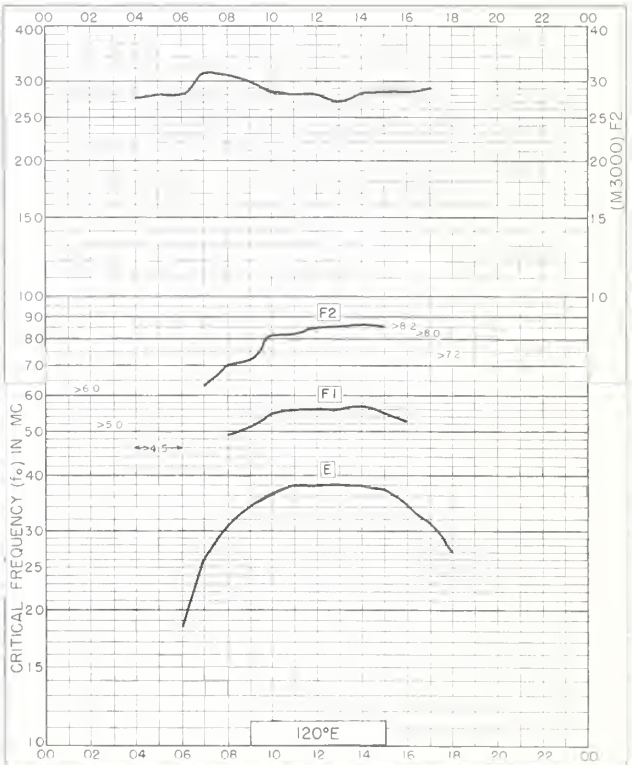

Fig. 64. MUNDARING, W. AUSTRALIA
32.0°S, 116.2°E FEBRUARY 1960

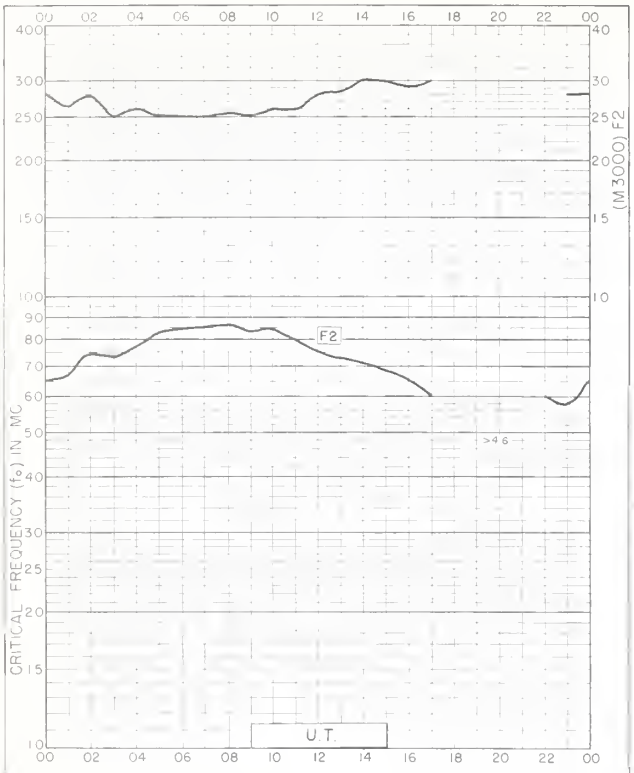

Fig. 65. MAWSON
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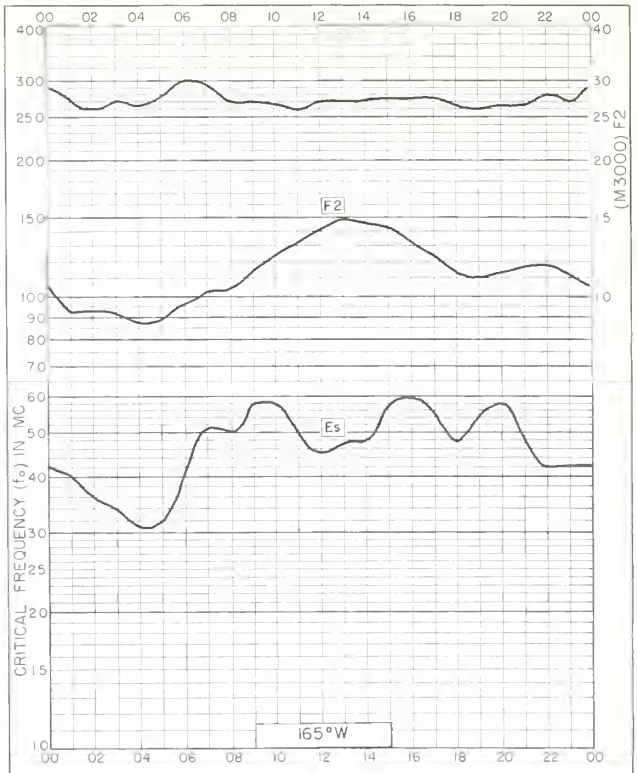

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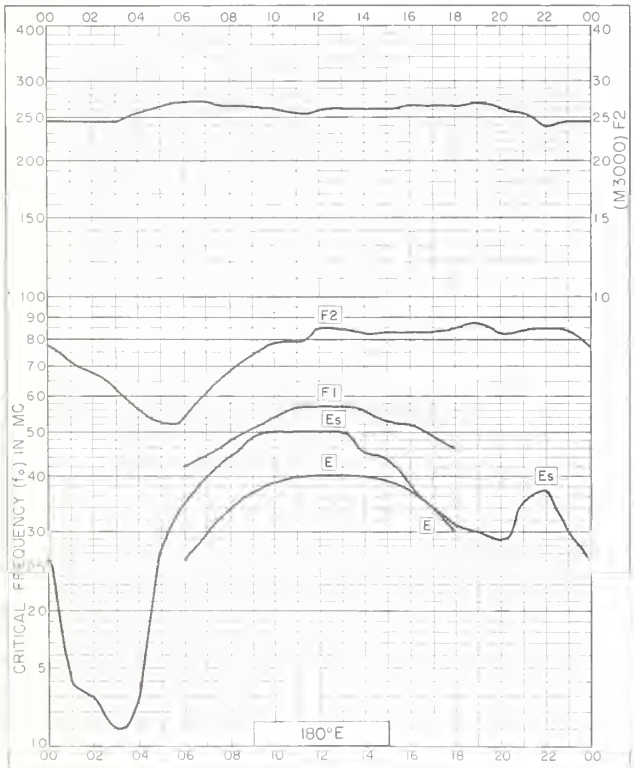

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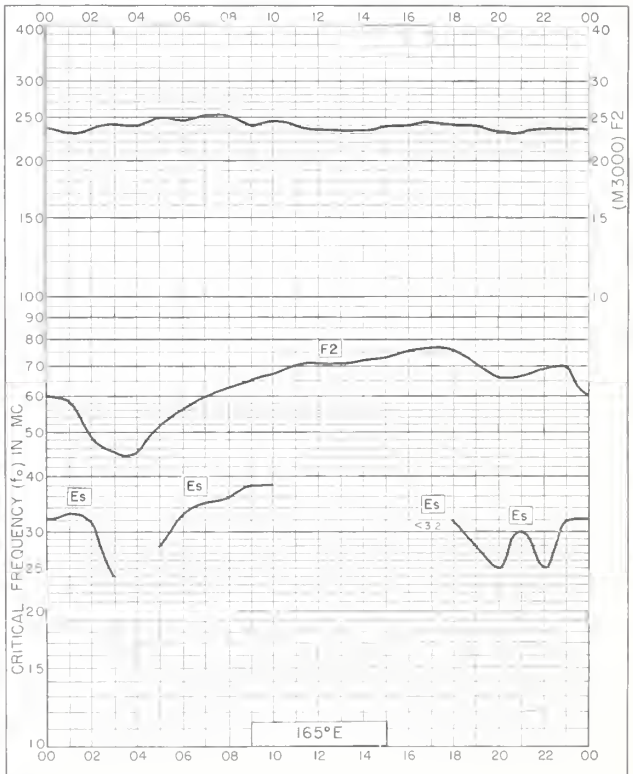

Fig. 68. CAMPBELL I.
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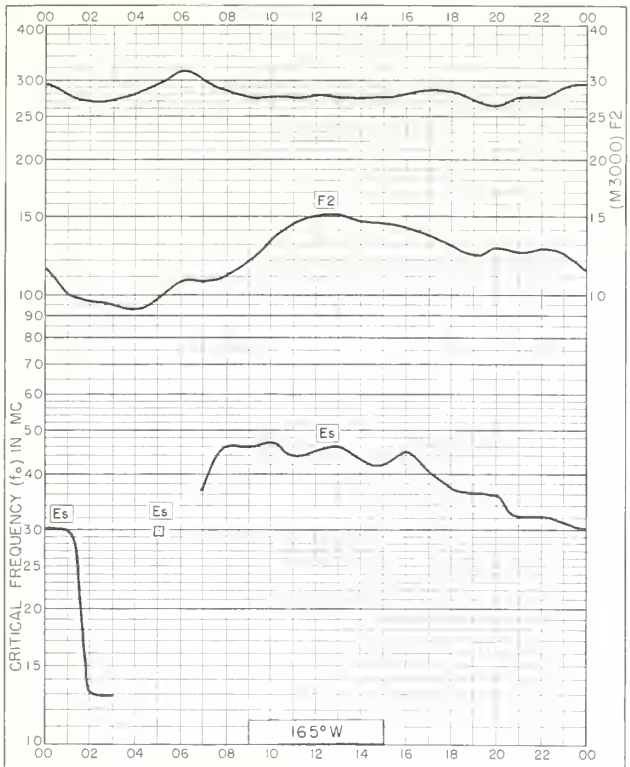

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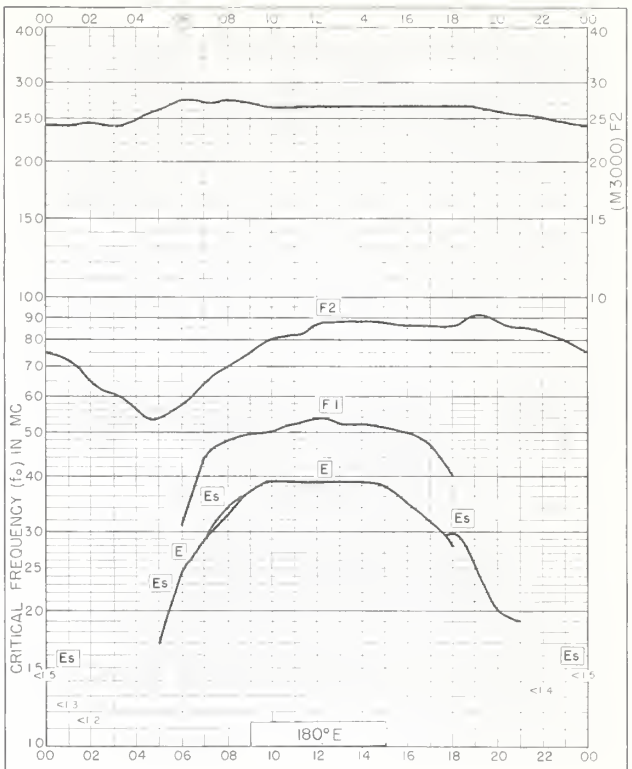

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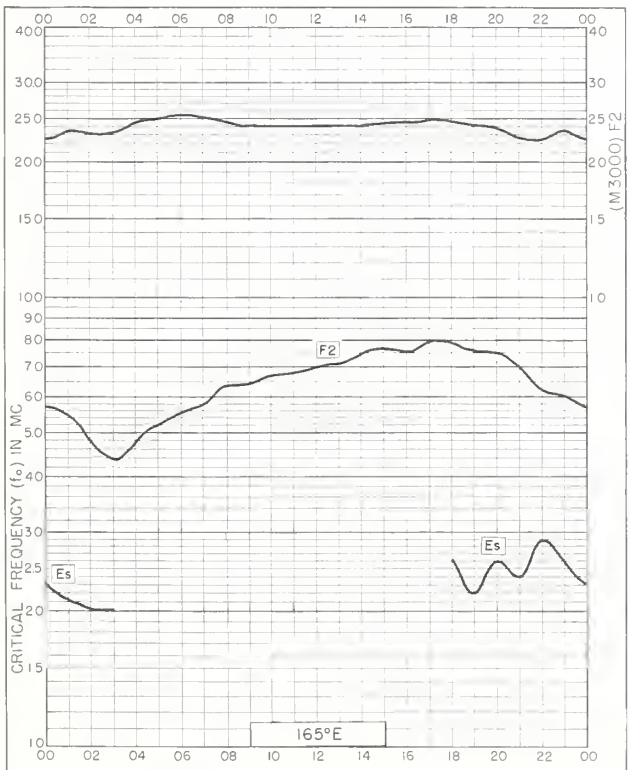

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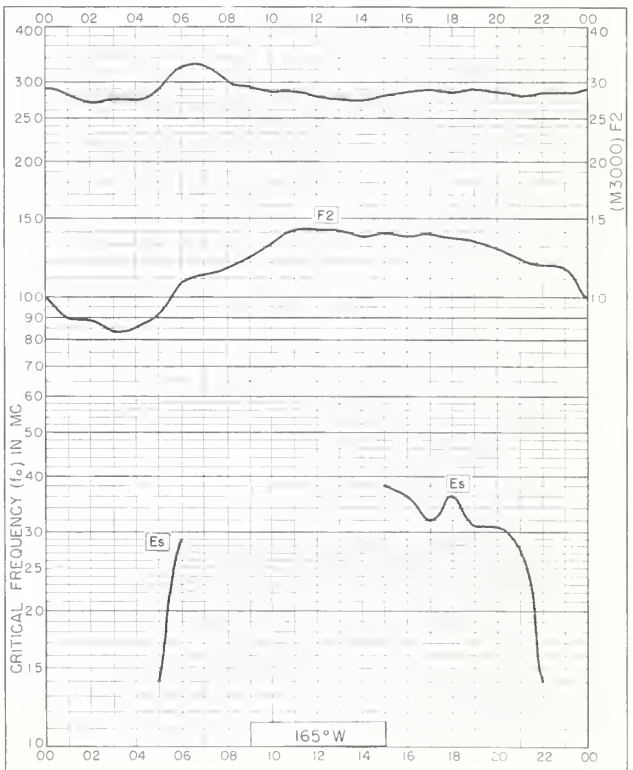

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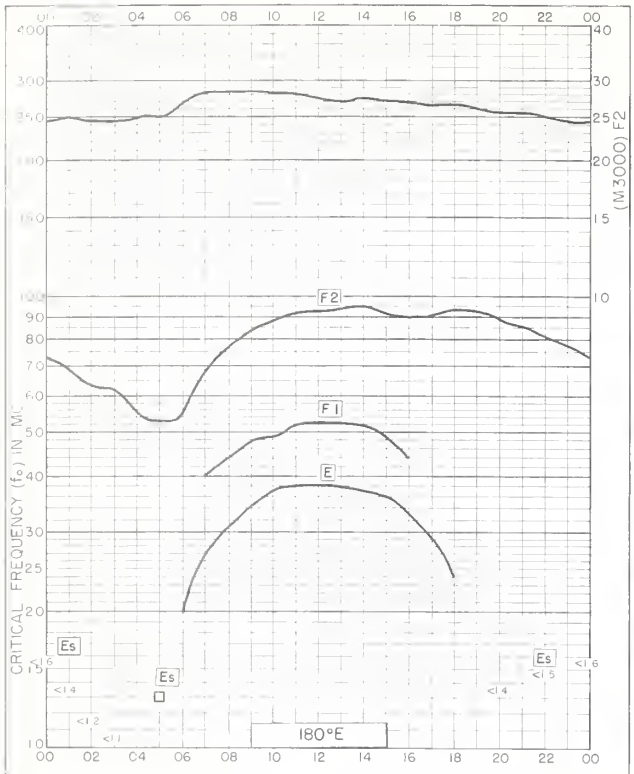

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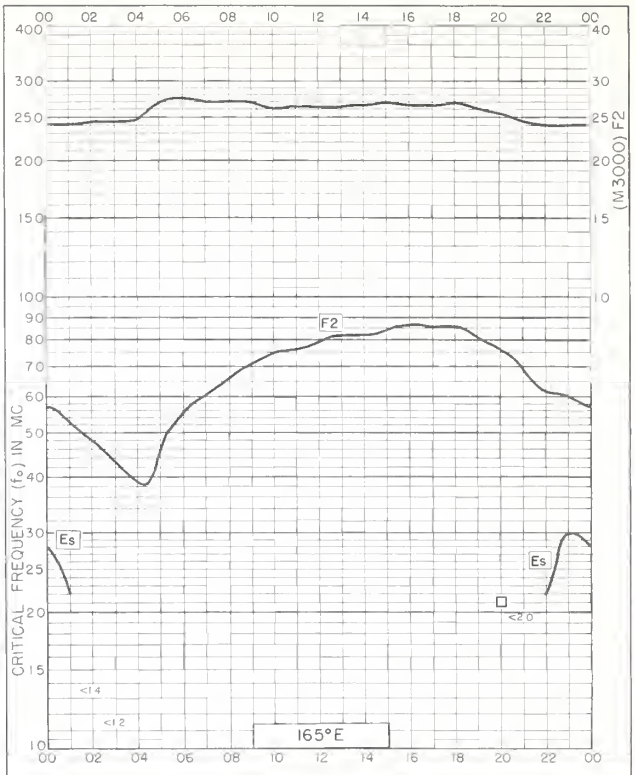

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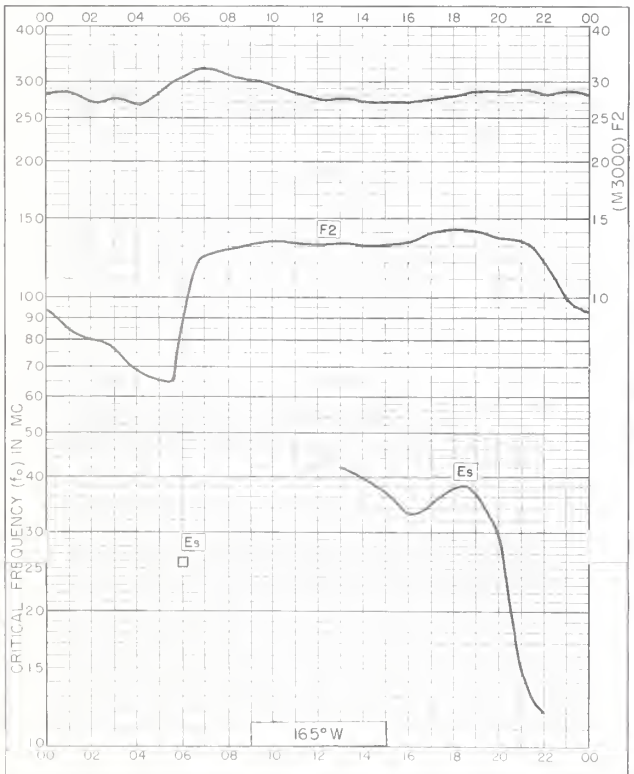

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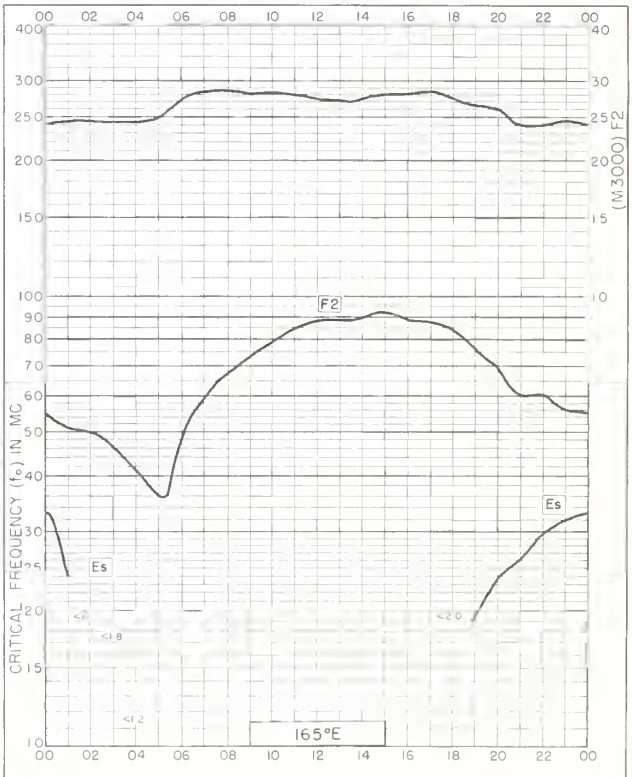

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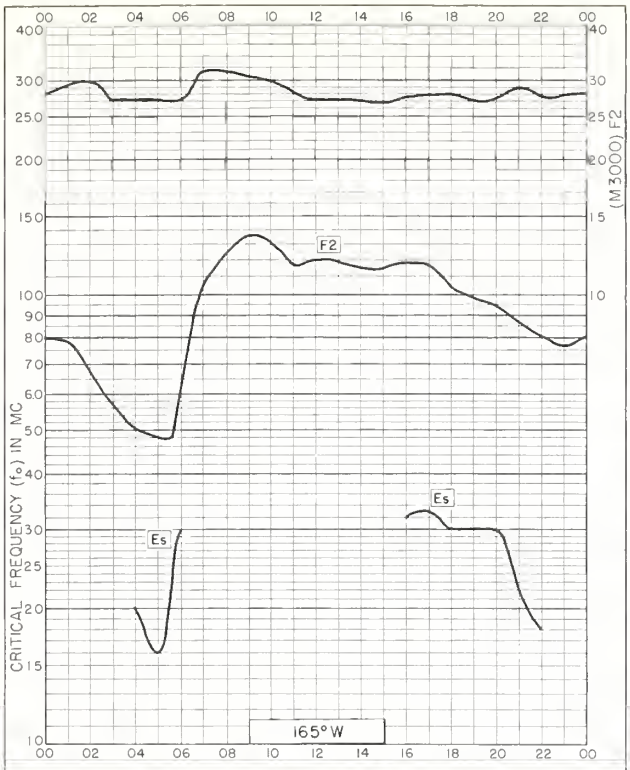

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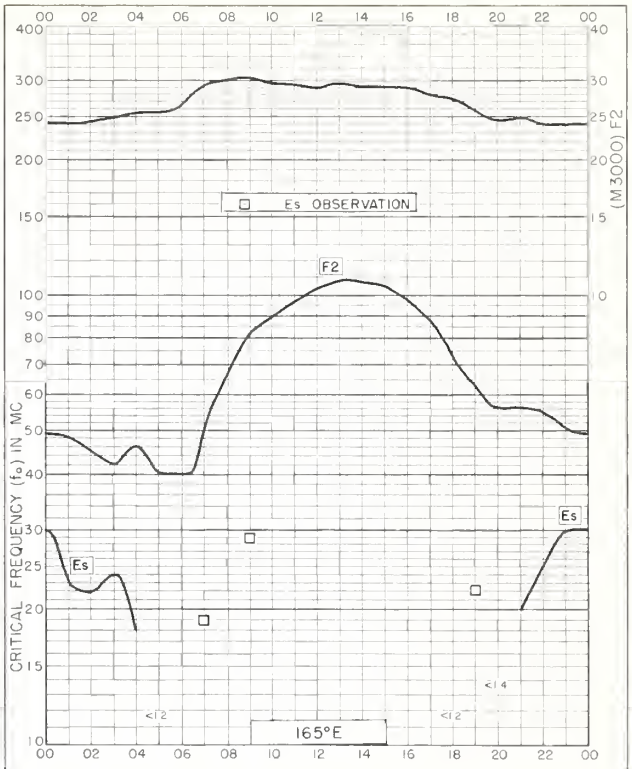

Fig. 78. CAMPBELL I.
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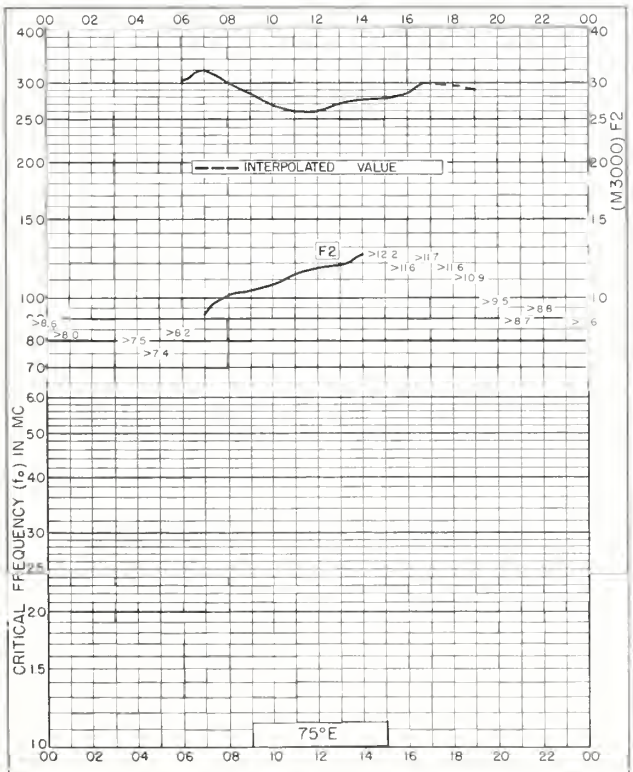

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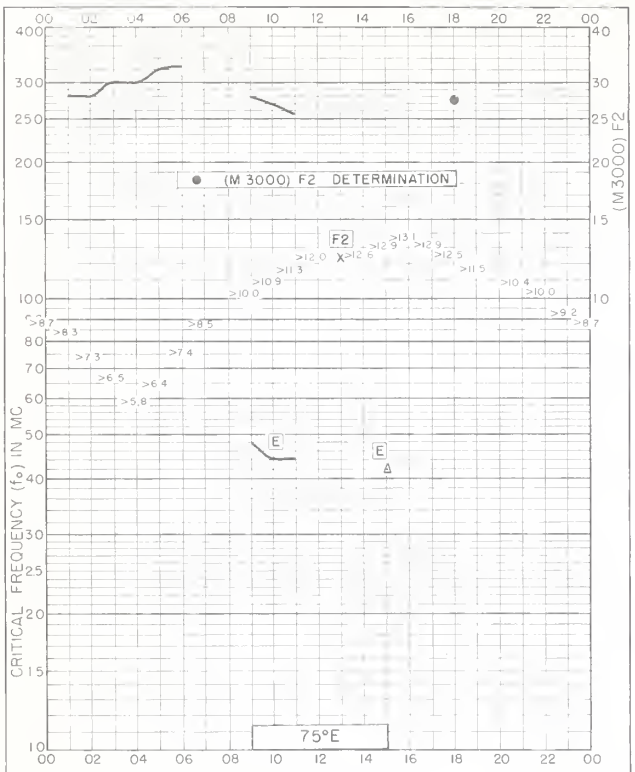

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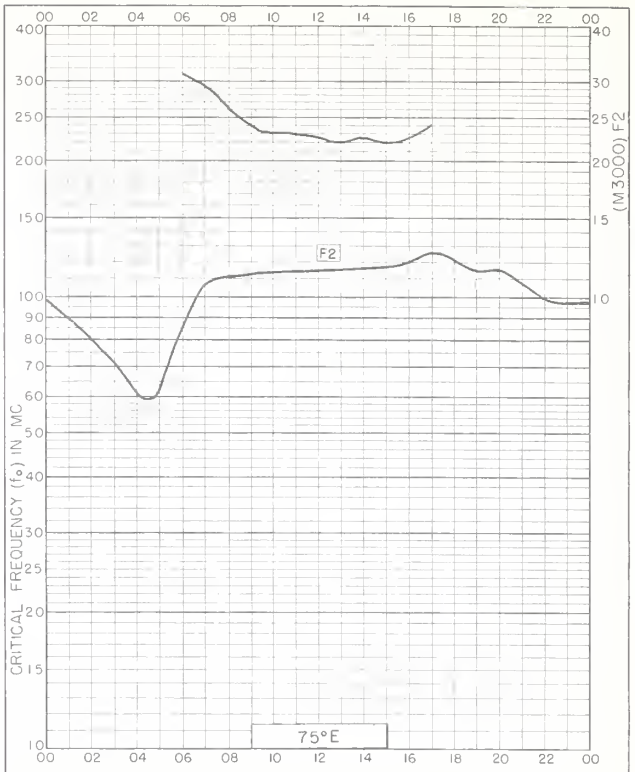

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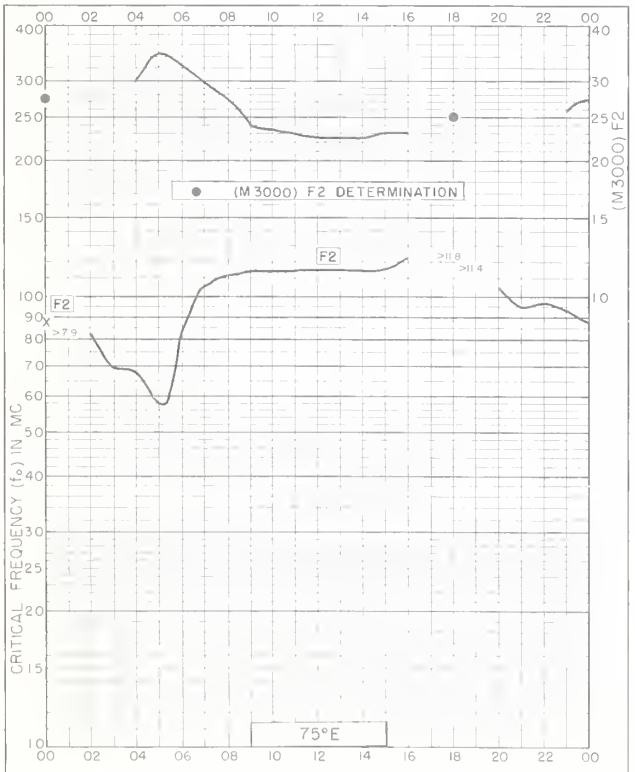

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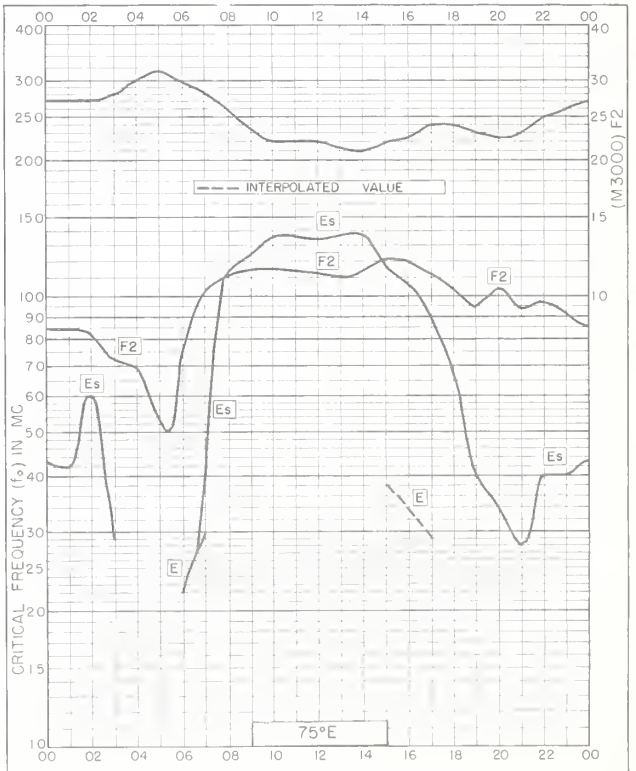

Fig. 84. KODIAKANAL, INDIA
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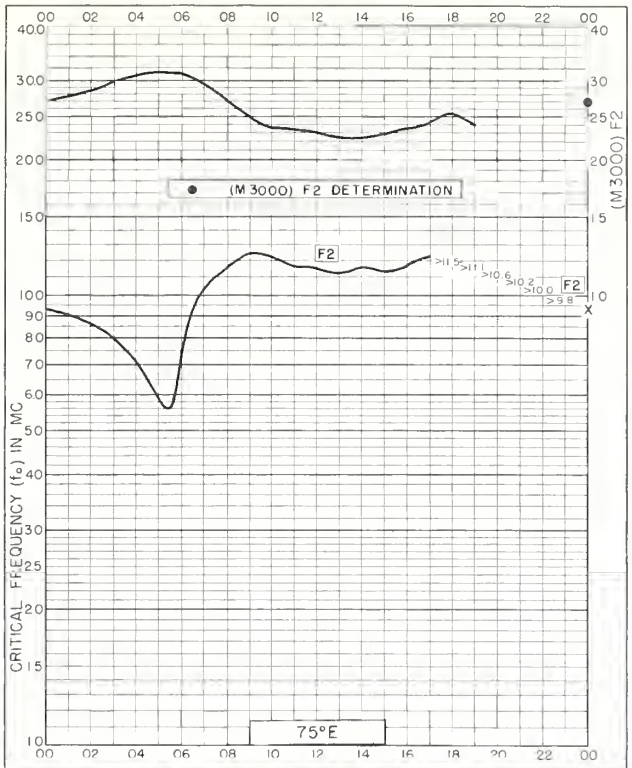

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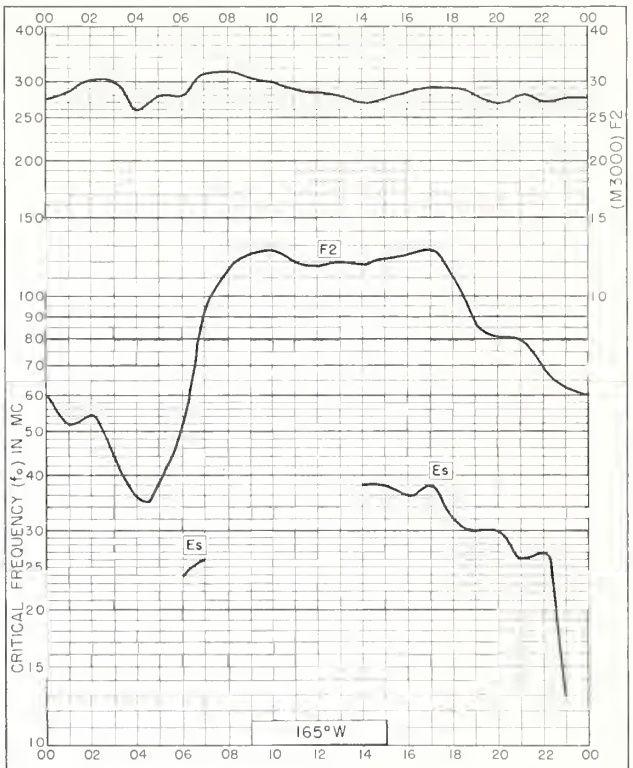

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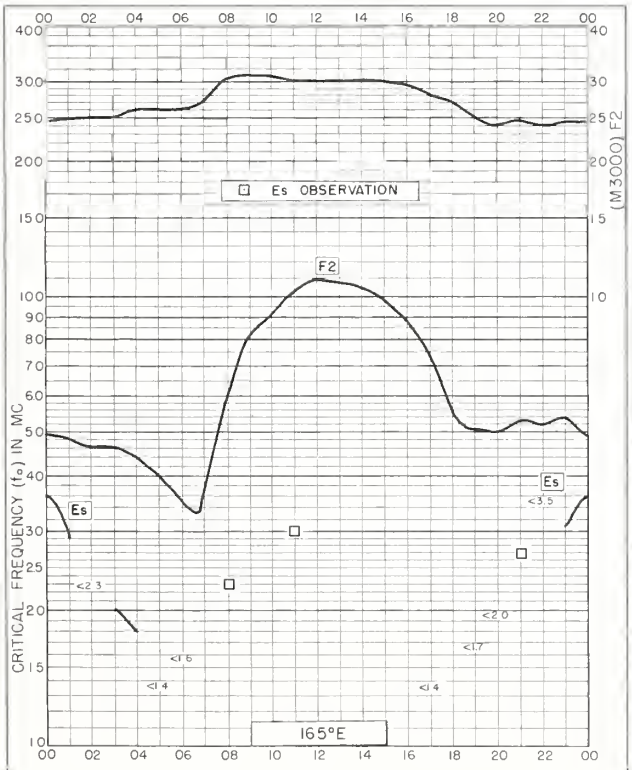

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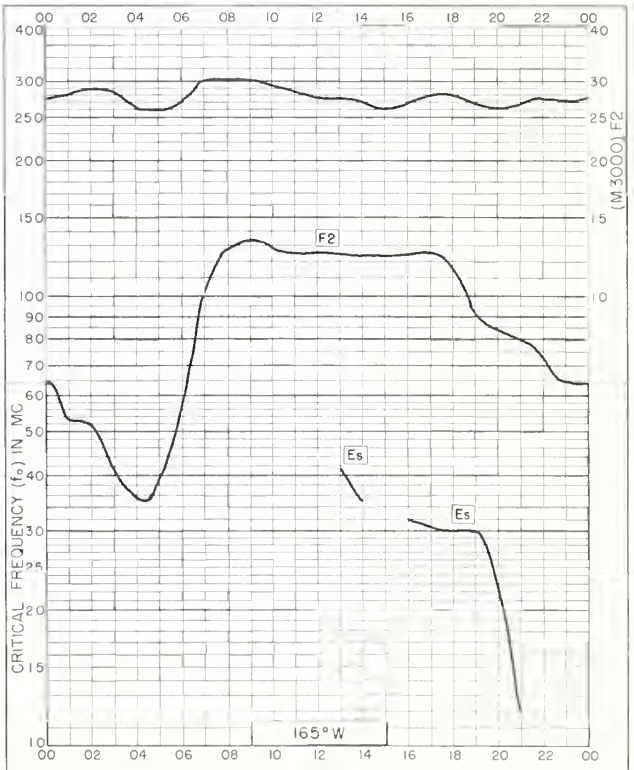

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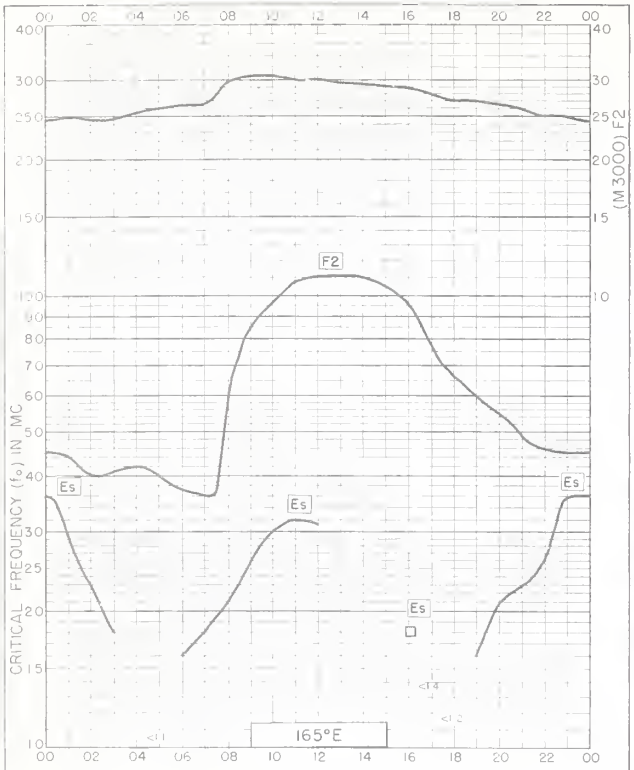

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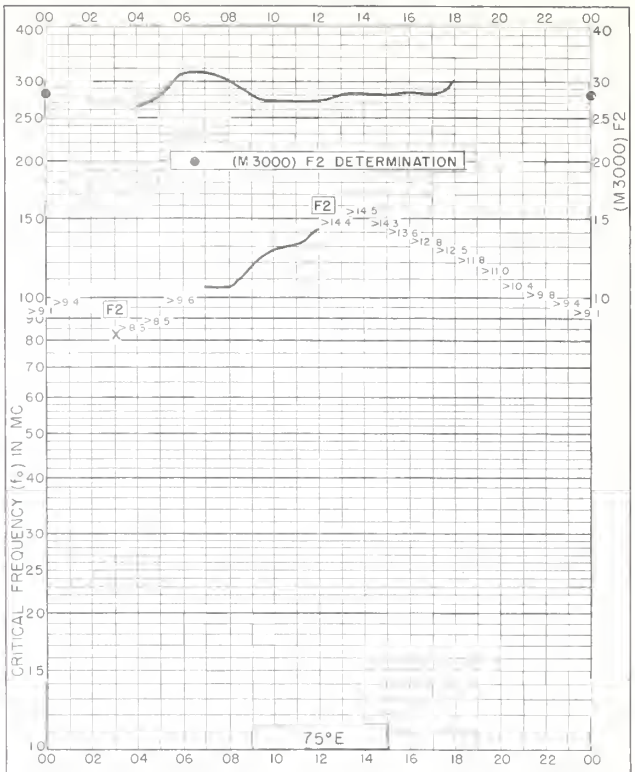

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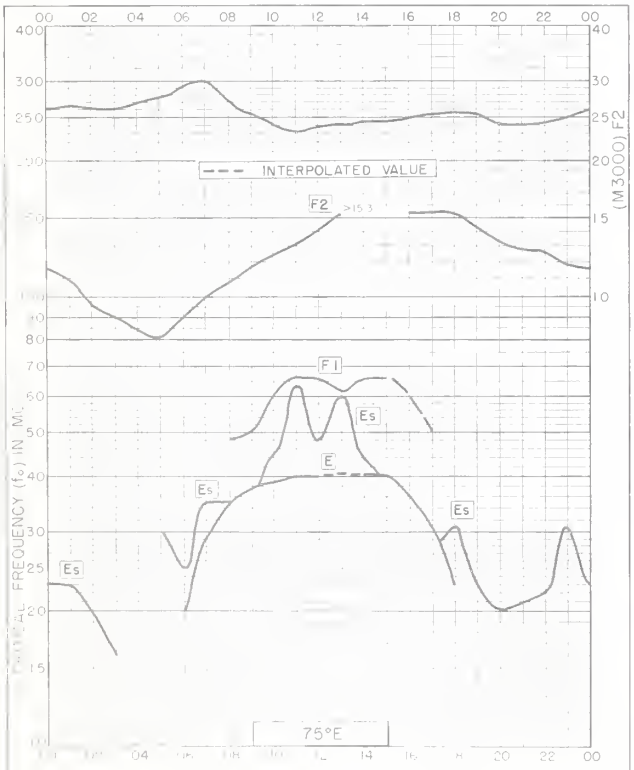

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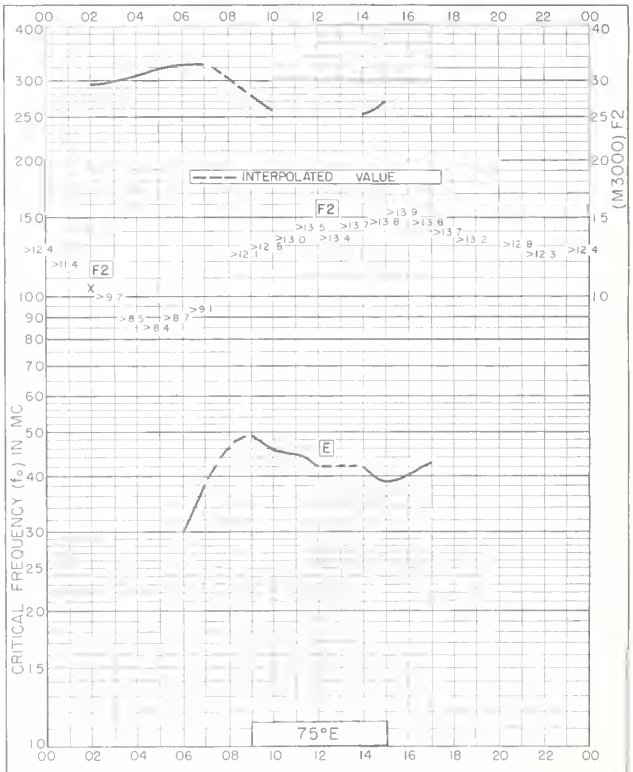

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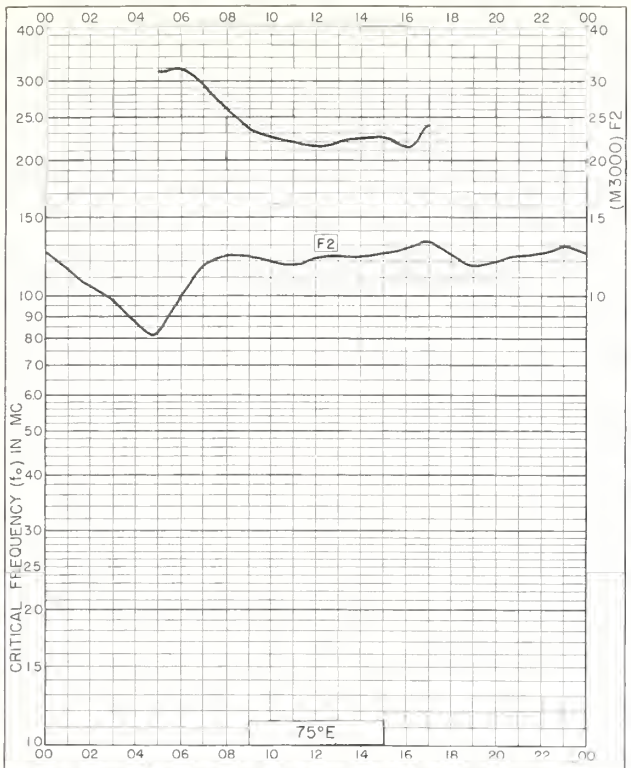

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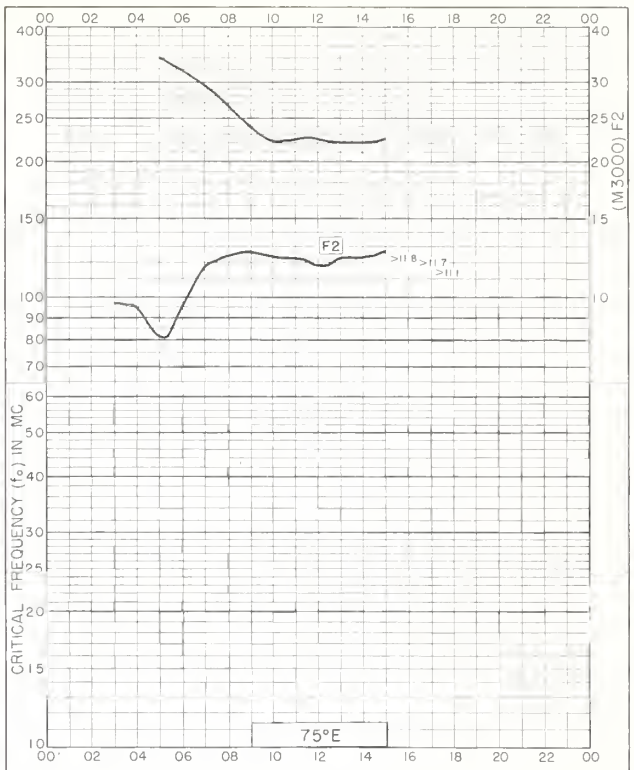

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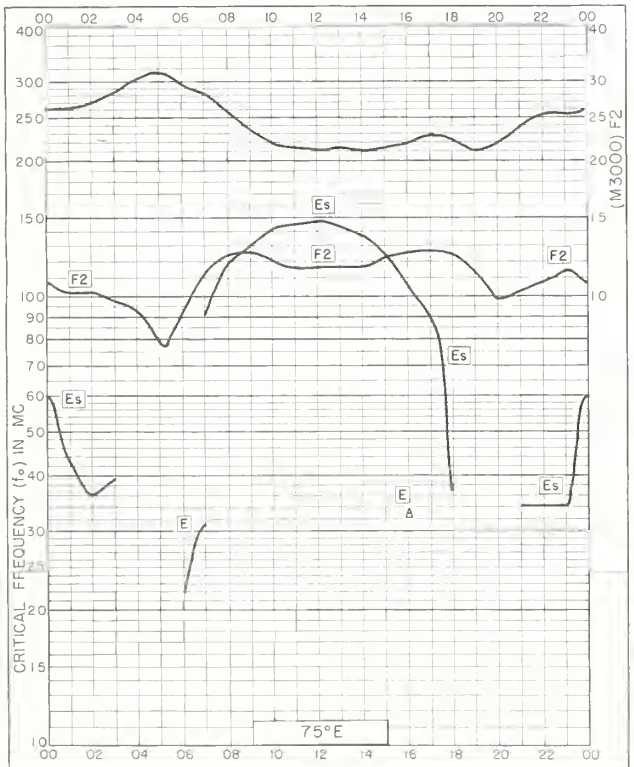

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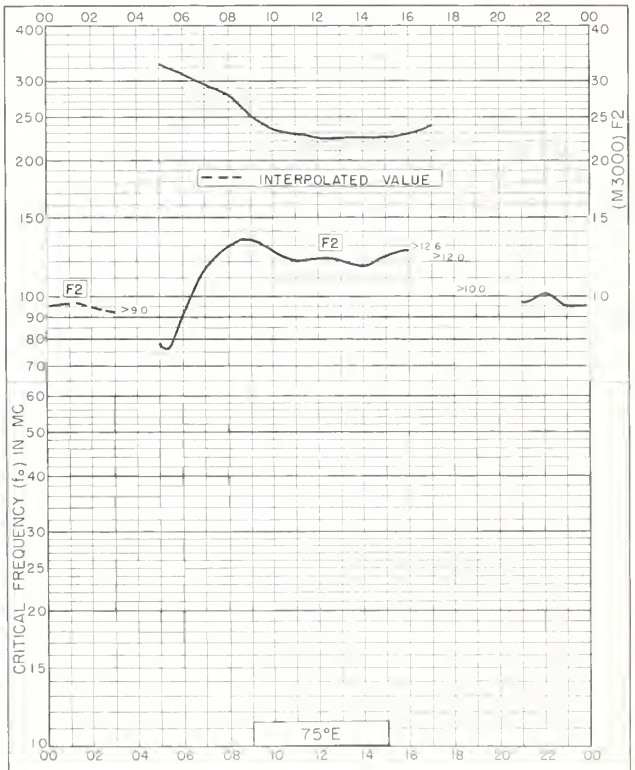

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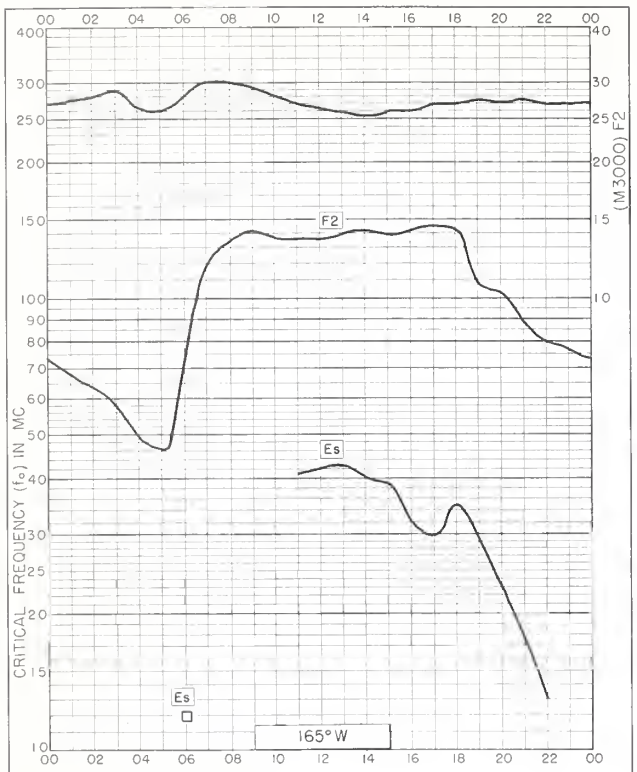

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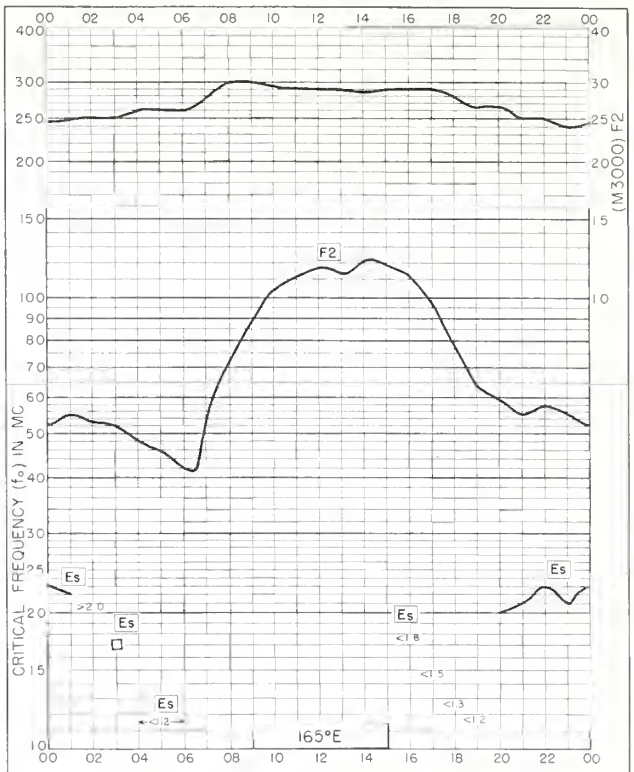

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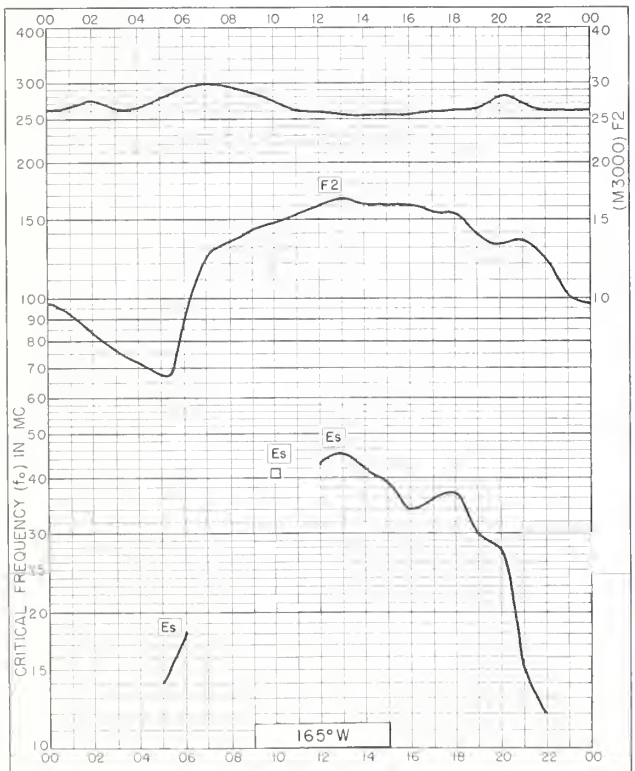

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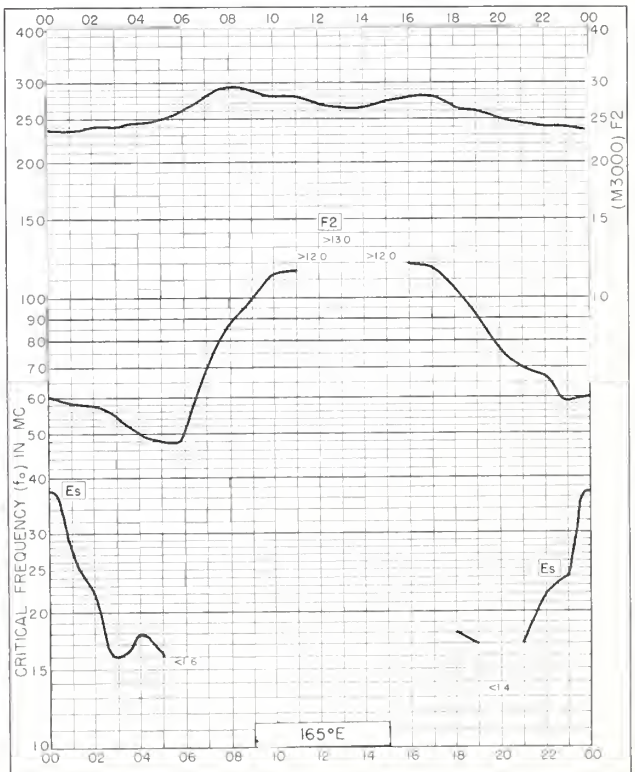

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CRPL Reports

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CRPL—J. North Atlantic Radio Propagation Forecast.

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CRPL—D. Basic Radio Propagation Predictions—Three months in advance. (Dept. of the Army, TB 11—499—, monthly supplements to TM 11—499; Dept. of the Air Force, TO 31—3—28 series). On sale by Superintendent of Documents. Members of the Armed Forces should address cognizant military office.

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:

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Selected Technical Notes of the National Bureau of Standards:

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