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CRPL-F 227 PART A

FOR OFFICIAL USE

PART A

IONOSPHERIC DATA

ISSUED
JULY 1963

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

CRPL-F 227
PART A

NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

Issued
22 July 1963

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 distribution of ionospheric and related geophysical data. Part A, "Ionospheric Data," and Part B, "Solar-Geophysical Data," of the CRPL-F series present a variety of data in convenient form for use in research in radio propagation and the ionosphere and in other geophysical problems.

The current form of the tables of ionospheric data provides the monthly medians and, in addition, the number of values entering into the median determination (count) for all ionospheric characteristics listed. Also, when available, the upper and lower quartile values indicated by UQ and LQ in the tables, are listed for foF2, h'F2, h'F, and M(3000)F2. Quartile values are not listed for the other characteristics because of space limitations. The tables are prepared by IBM machine methods.

Beginning with CRPL-F221, Part A, "Ionospheric Data," the hourly median values for the graphs of critical frequencies and M(3000)F2 were plotted by machine methods instead of manually, as in earlier issues. Graphs of critical frequencies and M(3000)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. Data on percentage of time of occurrence of fEs above 3, 5, and 7 Mc are available from the CRPL and the IGY World Data Center 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 the original data. The tables and graphs now show the ionospheric data as they are provided by the originating laboratory. Responsibility for the accuracy and reliability of the data rests entirely with the originator.

Medians of data for the U.S. stations are computed in accordance with the recommendations of the World-Wide Soundings Committee. 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 1962, 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	10	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	49
1962	45	42	40	39	39	38	36	34	32	31	30	30

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 IN TABLES 1 TO 100 AND FIGURES 1 TO 100 WERE ASSEMBLED BY THE CENTRAL RADIO PROPAGATION LABORATORY FOR ANALYSIS, CORRELATION AND DISTRIBUTION. THE FOLLOWING ARE THE SOURCES OF THE DATA IN THIS ISSUE:

REPUBLICA ARGENTINA, MINISTERIO DE MARINA
TRELEW, ARGENTINA

COMMONWEALTH OF AUSTRALIA, IONOSPHERIC PREDICTION SERVICE OF THE COMMONWEALTH OBSERVATORY
BRISBANE, AUSTRALIA
CANBERRA, AUSTRALIA
WILKES STATION, ANTARCTICA

AUSTRALIAN DEPARTMENT OF NATIONAL DEVELOPMENT, BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS
MUNDARING, WESTERN AUSTRALIA
PORT MORESBY, PAPUA

ESCOLA POLITECNICA, UNIVERSITY OF SAO PAULO
SAO PAULO, BRAZIL

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METEOROLOGICAL SERVICE OF CONGO
BUNIA, CONGO
LEOPOLDVILLE, CONGO

CZECHOSLOVAK ACADEMY OF SCIENCES
PRUHONICE, CZECHOSLOVAKIA

THE FINNISH ACADEMY OF SCIENCES AND LETTERS
SODANKYLA, FINLAND

IONOSPHERIC RESEARCH GROUP (GRI), FRANCE
DAKAR, SENEGAL
DJIBOUTI, FRENCH SOMALILAND
PARIS, FRANCE
TAHITI, SOCIETY IS.
TANANARIVE, MALAGASY REPUBLIC

HEINRICH HERTZ INSTITUTE, GERMAN ACADEMY OF SCIENCES,
BERLIN, GERMANY
JULIUSRUH/RUGEN, GERMANY

INSTITUTE FOR IONOSPHERIC RESEARCH, LINDAU UBER NORTHEIM,
HANNOVER, GERMANY
LINDAU/HARZ, GERMANY

IONOSPHERE INSTITUTE, NATIONAL OBSERVATORY OF ATHENS
ATHENS (SCARAMANGA), GREECE

ICELANDIC POST AND TELEGRAPH ADMINISTRATION
REYKJAVIK, ICELAND

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BOMBAY, INDIA (ALL INDIA RADIO)
CALCUTTA, INDIA (INSTITUTE OF RADIO PHYSICS AND ELECTRONICS)
DELHI, INDIA (ALL INDIA RADIO)
KODAIKANAL, INDIA (INDIA METEOROLOGICAL DEPARTMENT)
MADRAS, INDIA (ALL INDIA RADIO)
TIRUCHY, INDIA (ALL INDIA RADIO)
TRIVANDRUM, INDIA (ALL INDIA RADIO)

MINISTRY OF POSTS AND TELECOMMUNICATIONS, RADIO RESEARCH
LABORATORIES, TOKYO, JAPAN
AKITA, JAPAN
TOKYO (KOKUBUNJI), JAPAN
WAKKANAI, JAPAN
YAMAGAWA, JAPAN

METEOROLOGICAL SERVICE, PROVINCE OF MACAU, ASIA
MACAU

CHRISTCHURCH GEOPHYSICAL OBSERVATORY, NEW ZEALAND DEPARTMENT OF
SCIENTIFIC AND INDUSTRIAL RESEARCH
CAPE HALLETT (ADARE), ANTARCTICA
CHRISTCHURCH, NEW ZEALAND
RAROTONGA, COOK IS.

NORWEGIAN DEFENCE RESEARCH ESTABLISHMENT,
KJELLER PER LILLESTROM, NORWAY
TROMSO, NORWAY

MANILA OBSERVATORY, PHILIPPINES
BAGUIO, LUZON

INSTITUTE OF TELECOMMUNICATION, WARSAW, POLAND
WARSAW, POLAND

RESEARCH INSTITUTE OF NATIONAL DEFENCE, STOCKHOLM, SWEDEN
KIRUNA, SWEDEN
UPPSALA, SWEDEN

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WHITE SANDS, NEW MEXICO

NATIONAL BUREAU OF STANDARDS, UNITED STATES OF AMERICA
(CENTRAL RADIO PROPAGATION LABORATORY)
MAUI, HAWAII

TABLES OF IONOSPHERIC DATA

November 1962 - April 1959

TABLE 1

BAGUIO, LUZON (16.4N, 120.6E) 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	U	U	U	U		U	U				U	U	U			U					U	U		U
	CNT	62	56	50	35	30	26	39	72	82	96	105	110	105	104	106	110	111	106	100	98	89	88	73	65
	UQ	23	20	16	18	15	7	24	30	30	30	29	28	30	30	30	30	29	28	30	30	26	24	27	25
	LQ	68	64	62	47	33	30	42	75	89	104	110	116	112	108	112	114	114	111	111	102	100	101	95	79
		56	52	40	28	28	26	34	61	76	92	102	104	96	97	100	103	103	100	92	81	71	69	65	60
h'F2	MED								255	270	295	305	310	315	300	295	280	255							
	CNT								4	10	25	24	24	24	23	21	21	17							
	UD																								
	LQ																								
h'F	MED	240	230	230	230	245	260	265	240	225	225	220	215	210	210	215	215	235	235	230	230	240	245	235	240
	CNT	28	29	28	21	12	4	20	30	26	22	19	18	17	10	11	13	19	29	29	30	29	29	28	30
	UQ																								
	LQ																								
M(3000)F2	MED	U	U	U			U	U																	
	CNT	340	345	350	355	340	320	325	340	330	315	295	280	270	275	285	300	315	325	325	315	310	320	335	335
	UQ	23	20	16	15	11	3	24	30	30	30	29	27	26	29	30	29	28	27	27	29	22	22	23	24
	LQ	350	355	355	365	350	325	335	345	340	325	310	290	280	295	305	315	335	340	330	335	315	335	340	345
		325	335	335	345	320	310	325	330	315	295	270	255	250	265	275	285	305	315	310	300	300	315	320	320
foF1	MED											U	470	470	460	460	380								
	CNT											2	7	5	3	1	1								
foE	MED										0	U													
	CNT										290	345													
											4	1													
h'E	MED										117	121													
	CNT										4	1													
foEs	MED															38									
	CNT	29	29	29	27	23	17	27	30	30	300	30	29	30	30	29	30	28	29	29	30	30	29	29	30

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. NOVEMBER, 1962

TABLE 2

BAGUIO, LUZON (16.4N, 120.6E) 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				U	U	U				U	U					U	0	U	U	0	U	U	U	U
	CNT	88	79	66	44	32	34	48	75	90	100	109	108	106	108	114	117	120	116	114	112	110	102	100	95
	UQ	27	25	26	18	9	5	28	28	27	28	27	28	27	28	27	27	21	19	22	21	26	20	24	26
	LQ	98	88	83	49	48	39	51	80	97	108	115	115	113	114	118	126	126	120	116	115	115	108	112	108
		77	69	56	36	30	31	45	71	87	98	104	101	100	102	107	113	116	112	112	106	102	100	90	83
h'F2	MED								U		U														
	CNT								260	255	290	300	305	310	300	300	290	260	250						
	UQ								1	7	8	21	23	20	23	17	13	13	3						
	LQ																								
h'F	MED	235	230	220	230	250	250	255	235	230	215	220	220	225	210	215	225	235	245	255	260	245	250	250	245
	CNT	31	30	30	21	8	3	30	28	16	7	13	10	14	4	6	5	12	29	31	30	30	31	30	31
	UQ																								
	LQ																								
M(3000)F2	MED	U	U		U	U	U				U	U	U	U	U	U	U	U	U	U	U*	U			
	CNT	330	340	355	345	315	320	330	355	320	295	280	260	260	270	285	295	310	310	305	305	310	310	320	330
	UQ	24	25	24	17	6	4	27	28	27	27	24	25	24	25	25	25	16	17	17	19	24	20	19	23
	LQ	340	350	365	365	335	345	335	350	330	310	285	275	270	280	295	305	320	320	310	315	320	315	325	335
		320	330	340	340	305	300	320	330	310	280	260	250	245	260	275	285	300	290	290	295	300	300	305	315
foF1	MED												U	U	U	U									
	CNT												470	480	480	460									
													1	6	1	1									
foE	MED																U								
	CNT																295								
																	1								
h'E	MED																								
	CNT																119								
																	1								
foEs	MED									0				40											
	CNT	29	28	28	25	17	13	29	29	30	40			27	28	28	29	28	29	29	29	29	29	29	29
										27	280	28	28												

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. OCTOBER, 1962

TABLE 3

REYKJAVIK, ICELAND (64.1N, 21.8W) TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	0	0	0	U																	U	U	U	U
	CNT	49	57	32	37	40	42	44	46	49	54	53	54	55	55	54	54	54	54	52	52	54	57	60	60
	UQ	6	7	14	15	19	22	26	29	26	24	27	29	29	30	28	27	29	28	25	21	20	13	7	5
	LQ	58	60	47	42	45	44	47	50	52	56	58	58	57	59	58	58	57	57	58	58	58	58	60	66
		38	35	30	30	33	37	40	43	46	48	50	50	51	52	50	51	50	50	48	47	46	50	38	32
h'F2	MED							U	335	335	350	340	340	340	340	345	335	350	320	320					
	CNT					1	4	9	18	19	22	25	27	28	27	27	26	24	21	17	3	2			
	UQ								385	370	370	360	370	375	380	380	355	365	360	365					
	LQ							320	305	310	320	310	330	330	315	320	310	310	300	300					
h'F	MED	U		E	U	U																			
	CNT	245	260	295	300	265	250	230	220	210	210	210	200	200	205	205	210	220	220	230	240	255	250	250	250
	UQ	6	11	16	19	19	21	23	24	26	24	25	26	25	22	27	27	27	24	25	21	23	15	9	7
	LQ	250	290	310	320	280	260	240	230	220	220	210	210	210	220	210	220	230	230	240	260	280	270	260	300
		240	240	260	270	260	235	220	210	210	200	200	200	200	200	200	200	210	215	220	230	240	250	240	250
M(3000)F2	MED				U																	U	U		
	CNT				300	300	310	300	310	310	305	310	300	300	310	305	310	300	310	310	310	310	320		
	UQ		3	4	8	17	18	23	24	25	23	25	27	28	27	27	27	27	23	22	14	12	6	1	1
	LQ				305	310	315	320	320	325	320	315	315	310	320	315	320	315	320	315	320	320	320		
					295	295	300	285	290	290	295	300	290	290	285	285	290	300	300	300	300	310	310		
foF1	MED							360	400	410	420	430	435	440	440	430	430	420	400						
	CNT						2	8	14	18	24	25	26	25	21	27	23	20	11	1	2				
foE	MED							0	U	U	0	0	U	0	U			0	0	U					
	CNT							240	260	280	280	300	310	315	310	310	300	290	270	255					
								10	12	16	17	18	20	20	17	20	21	16	13	6	1	1			
h'E	MED							115	111	111	111	111	109	109	109	109	110	111	111						
	CNT					1	1	9	13	16	19	19	22	23	18	20	22	17	13	4	2				
foEs	MED	28	24																		28	29		30	30
	CNT	14	18	25	24	22	25	24	25	26	240	25	28	28	28	30	29	29	27	26	24	28	20	17	19

SWEEP 1.0 MC TO 25.0 MC IN 16.2 SECONDS. MAY, 1962

TABLE 4

REYKJAVIK, ICELAND (64.1N, 21.8W) TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	0	0	0	0	U															U	0	0	0	0
	CNT	28	29	27	28	28	32	35	38	41	45	46	50	50	49	51	50	49	49	46	41	41	34	33	31
	UQ	1	2	2	4	7	12	18	18	19	19	18	21	20	23	21	24	27	26	22	17	6	4	4	2
	LQ				31	29	34	38	41	44	45	51	53	52	53	54	53	52	52	49	48	47	38	34	
					25	26	30	32	35	37	42	44	46	47	46	48	48	45	44	43	37	39	29	32	
h'F2	MED								G											U					
	CNT							3	5	405	380	415	375	365	410	370	360	360	345	340					
	UQ									11	13	14	21	20	21	18	24	21	17	6	2				
	LQ									470	480	420	415	455	430	405	395	410	360						
										370	350	350	340	340	340	340	345	340	325	330					
h'F	MED					E	E		E																
	CNT	1	1	2	4	345	300	255	250	U	U		E	220	210	210	230	U	240	250	275	265	300		
	UQ					6	12	17	17	18	18	15	20	20	22	18	23	21	18	17	14	5	5	3	3
	LQ					360	320	280	260	240	235	230	235	220	230	220	235	260	260	260	300	290	350		
						290	270	240	230	220	220	210	210	200	210	210	220	230	230	240	260	250	270		
M(3000)F2	MED					U																			
	CNT				1	290	310	315	300	290	290	295	295	290	280	295	290	300	305	310	305				
	UQ					7	12	17	16	18	15	16	21	20	22	17	24	24	20	17	10	1			
	LQ					320	320	330	320	310	305	310	310	310	300	300	310	310	310	320	320				
						280	290	300		265	270	275	280	285	270	280	280	280	285	300	300				
foF1	MED									360	390	400	410	420	420	410	410	390	375						
	CNT							2	4	7	11	14	16	19	19	15	23	16	6						
foE	MED									270	280	300	300	0	0		U	U							
	CNT								4	7	8	9	13	300	305	300	290	280							
														13	12	10	13	8	4	2					
h'E	MED									119	113	113	111	113	114	115	113	116	119						
	CNT								4	9	9	9	13	14	12	9	13	8	5	4					
foEs	MED	U																			33	39	33	U	U
	CNT	39	38	30	28	34				19	180	16	20	21	22	21	23	26	21	27	24	16	15	28	28
		9	13	11	11	16	15	15	16															9	8

SWEEP 1.0 MC TO 25.0 MC IN 16.2 SECONDS. APRIL, 1962

TABLE 5

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	38	36	32	28	27	28	41	48	52	55	58	60	64	67	67	65	66	66	65	66	60	52	44	40
	CNT	29	27	25	23	21	25	29	27	30	30	29	30	30	29	29	30	30	30	30	30	29	26	28	29
	UQ	42	39	36	33	32	32	48	55	58	61	64	67	70	70	72	70	68	70	72	72	66	57	50	40
	LQ	30	29	26	25	22	23	37	43	46	49	56	55	54	56	56	59	59	58	60	58	56	45	39	32
h'F2	MED								328	340	343	348	350	350	327	318	312	297	275						
	CNT								13	26	28	25	30	30	29	29	30	23	26	2					
	UQ									420	444	384	393	385	352	362	333	315	295						
	LQ								278	295	290	300	310	310	309	293	290	283	265						
h'F	MED	U 288	E 284	U 280	280	E 290	E 280	243	221	215	205	200	199	200	205	220	220	208	235	250	242	238	250	264	U 284
	CNT	30	30	27	23	23	26	29	28	30	30	29	30	30	29	29	30	30	29	30	30	30	30	30	30
	UQ	298	290	300	300	302	302	250	234	220	208	205	205	210	207	224	230	230	243	260	250	247	263	283	293
	LQ	278	270	275	270	268	258	238	216	209	198	190	185	190	197	208	215	223	230	240	230	226	240	255	272
M(3000)F2	MED	290	285	295	295	295	310	335	320	310	305	300	305	295	305	305	310	310	310	315	315	305	295	290	285
	CNT	25	25	20	20	19	25	28	26	30	29	27	29	29	29	28	30	30	29	29	29	28	23	27	27
	UQ	295	295	310	305	310	320	345	330	325	330	320	310	310	310	315	315	320	320	320	315	310	300	300	290
	LQ	280	280	280	285	290	300	320	305	295	270	290	275	280	290	290	300	300	305	305	305	300	285	285	280
foF1	MED								380	405	430	440	450	460	455	440	435	400							
	CNT							2	9	20	25	27	29	27	26	24	20	13	4						
foE	MED							U 205	250	290	305	325	340	340	335	330	315	280	240	U 185					
	CNT							13	19	24	16	15	12	17	16	20	21	23	26	7					
h'E	MED							120	110	109	108	106	107	107	107	107	110	110	112	E 129					
	CNT						2	20	28	30	30	29	29	30	29	29	30	30	30	20					
foEs	MED										31											U 27			
	CNT	20	24	24	24	20	26	26	28	30	300	29	30	30	29	29	30	30	30	30	11	5	19	21	22

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. APRIL, 1962

TABLE 6

MAUI, HAWAII (20.8N, 156.5W) 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	50	50	45	39	38	37	40	68	77	84	86	100	114	128	128	124	126	124	123	110	84	65	57	52
	CNT	30	29	29	28	29	30	29	30	30	30	30	30	30	30	30	30	30	30	29	30	29	29	29	29
	UQ	61	64	56	43	43	42	68	71	84	90	95	105	120	132	139	129	131	130	131	125	99	74	67	59
	LQ	45	44	38	34	31	30	35	62	72	73	79	90	104	115	118	119	112	115	108	97	66	50	46	44
h'F2	MED								U 245	260	270	290	315	330	310	290	280	280	265	U 250					
	CNT								6	13	18	22	21	29	30	30	30	29	27	5					
	UQ								250	260	280	295	350	355	325	305	305	285	275	260					
	LQ								245	250	260	270	300	310	295	275	270	270	250	245					
h'F	MED	E 275	260	240	U 250	E 265	275	260	235	225	220	215	200	200	205	220	220	230	240	245	E 230	E 220	U 240	260	E 290
	CNT	28	29	30	29	29	29	28	30	23	19	19	21	22	22	21	16	15	14	25	28	26	24	25	25
	UQ	280	270	260	275	295	290	270	240	230	225	220	210	210	220	230	230	240	240	255	230	220	250	280	305
	LQ	250	250	230	220	240	260	250	230	220	210	205	195	190	190	200	210	220	230	240	215	210	210	250	270
M(3000)F2	MED	310	320	325	300	290	295	315	350	330	320	290	270	290	305	310	310	320	325	335	340	330	300	290	290
	CNT	27	28	28	27	28	30	28	30	30	30	30	30	30	30	30	30	29	30	29	30	28	29	28	27
	UQ	320	325	350	350	305	310	320	355	345	335	305	285	290	310	320	320	320	335	340	350	350	320	290	295
	LQ	290	295	300	280	280	285	300	335	320	305	275	265	280	295	300	300	310	315	325	335	310	290	280	275
foF1	MED											U 470	U 485	500	U 490	U 480	450								
	CNT										3	6	10	11	12	9	5	2							
foE	MED							U 90	U 230	285	315	340	U 350	D 360	D 360	U 350	D 330	315	270	U 205					
	CNT						1	5	25	26	30	26	16	9	7	12	18	25	24	11					
h'E	MED								113	107	105	105	105	105	105	105	105	105	E 109	115					
	CNT						1	4	29	30	30	30	30	30	30	30	29	28	22	20	1	1			
foEs	MED	23	22	22	22	23	22	22	26	34	40	41	41	40	42	40	D 37	42	41	45	37	34	37	35	31
	CNT	29	30	30	30	30	30	30	30	30	300	30	30	30	30	30	30	30	30	30	30	30	30	30	30

SWEEP 0.25 MC TO 20.0 MC IN 27 SECONDS. APRIL, 1962

TABLE 7

REYKJAVIK, ICELAND (64.1N, 21.8W) TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 30		D 26	U 29	D 26		D 28	U 25	34	39	44	52	55	58	57	U 55	U 56	50	D 35	D 36	D 40	D 34	D 28	U 33
	CNT	2		4	3	2		4	5	12	21	21	22	23	24	24	21	20	12	5	6	2	2	1	1
	UQ				30			30	30	38	44	53	56	60	61	66	63	61	57	41	57				
	LQ				28			26	24	26	36	46	49	49	53	51	52	46	44	27	32				
h'F2	MED														U 270	U 260									
	CNT											2	4	4	6	5									
	UQ														310	270									
	LQ														250	255									
h'F	MED							E 310	E 300	260	230	225	E 230	230	225	E 240	E 240	240	250	235	U 240				
	CNT	2		2	3	2		5	5	12	20	19	18	18	18	22	20	20	13	10	8	4	2	1	1
	UQ							330	310	270	255	235	240	245	240	240	240	250	250	260	280				
	LQ							295	260	250	225	215	220	220	220	220	230	230	230	230	230				
M(3000)F2	MED								U 315	330	355	355	350	340	345	340	340	U 340	U 340						
	CNT	1			1			3	5	11	20	18	19	20	21	21	16	14	9		1	1			
	UQ								325	340	365	360	365	350	360	350	350	350	345						
	LQ								300	320	340	340	340	330	320	320	330	325	330						
foF1	MED																								
	CNT																								
foE	MED																								
	CNT												1	2	1	1	1								
h'E	MED																								
	CNT												1	2	1	1	1								
foEs	MED	U 31	U 32	U 31	U 36	44															30	33	30	U 41	34
	CNT	9	7	9	6	6	2	6	5	11	190	19	20	21	21	22	21	20	15	14	13	13	10	8	10

SWEEP 1.0 MC TO 25.0 MC IN 16.2 SECONDS. FEBRUARY, 1962

TABLE 8

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

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 25	U 24	U 21	U 28	U 24	U 24	U 20	U 26	U 28	U 27	U 32	U 32	U 35	U 39	U 30	U 33	U 35	U 33	U 32	U 34	U 26	U 22	U 24	U 26
	CNT	21	19	19	13	16	15	10	14	16	17	20	20	19	18	20	19	11	15	15	10	10	13	17	18
	UQ	28	32	26	30	26	28	24	29	32	34	41	39	41	45	35	43	40	45	42	38	28	26	28	29
	LQ	20	21	19	25	22	22	20	22	22	22	30	26	28	32	26	28	32	26	24	29	22	19	22	21
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	248	250	250	248	237	240	249	244	238	232	229	234	229	230	230	229	230	226	240	238	240	250	246	250
	CNT	29	27	27	26	28	27	25	27	26	28	27	28	28	29	29	27	27	26	25	24	25	29	26	27
	UQ	260	264	276	266	275	270	284	260	251	250	240	243	230	248	240	260	250	245	250	255	270	269	265	267
	LQ	240	240	235	239	234	230	230	225	223	221	220	220	212	214	211	219	212	219	225	225	230	238	230	220
M(3000)F2	MED	U 315	U 310	U 310	U 300	U 300	U 300	U 300	U 300	U 300	U 315	U 325	U 320	U 330	U 320	U 315	U 315	U 305	U 310	U 310	U 325	U 310	U 320	U 310	U 320
	CNT	16	16	14	16	14	12	8	9	13	17	17	18	18	17	19	17	10	14	12	8	10	10	16	14
	UQ	320	320	320	300	310	325	315	325	320	330	335	325	340	330	330	320	330	330	320	325	320	330	320	330
	LQ	300	290	285	295	290	295	290	280	290	300	310	310	300	310	305	300	300	300	305	315	300	310	300	300
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED													24	19			26	34	30	34	26	16		
	CNT	31	21	30	31	31	30	29	29	30	300	30	30	30	30	29	30	30	30	29	27	28	30	30	31

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. JANUARY, 1962

TABLE 9

TROMSO, NORWAY (69.7N, 19.0E) 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		23	22	26	20	22	20	18	18	25	33	40	44	40	38	26	22	18	17					
	CNT	3	8	12	14	18	17	14	18	20	25	24	24	22	26	24	19	14	10	7	3	1	1	3	2
	UQ		27	30	28	28	27	24	22	20	28	36	41	47	43	40	31	25	23	18					
	LQ		18	18	19	18	18	18	17	17	22	32	39	42	38	32	24	20	17	17					
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED			300	290	310	265				250	240	230	220	220	235	235	220							
	CNT		1	6	6	8	5	3	2	3	6	22	24	23	25	18	5	8	3				2		1
	UQ			300	310	345	295				295	245	245	240	245	245	250	250							
	LQ			280	265	270	260				245	225	215	210	210	215	220	210							
M(3000)F2	MED			290	290	285	290	290	290	290	305	310	315	320	310	310	310	305	310						
	CNT		2	6	8	10	10	12	8	14	21	17	22	20	23	16	12	11	6	1				2	
	UQ			290	300	290	290	295	295	310	310	380	330	330	320	310	310	310	310						
	LQ			290	275	270	285	290	290	280	290	310	310	310	310	300	300	290	300						
foF1	MED																								
	CNT																								
foE	MED					E																			
	CNT			4	3	6	3		1		2	4	1	1	3		1								
h'E	MED					E																			
	CNT			3	3	5	3		1			1	3	1											
foEs	MED	D	32	30	30	24	27	30	26	20	26	25	22	21	27	29	30	28	32	D 32	36	36	33	32	33
	CNT	40 25	24	27	22	22	22	15	14	13	130	23	20	22	23	19	16	19	21	20	24	23	26	24	23

SWEEP DECEMBER, 1961

TABLE 10

SODANKYLA, FINLAND (67.4N, 26.6E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	24			27	22		32			26	36	43	49	50	46	44	36	28	23					
	CNT	1			2	1		1			1	15	20	19	24	18	15	8	3	1					
	UQ											39	46	51	53	50	46	41	29						
	LQ											32	41	46	47	43	41	32	26						
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	350	360	318	310	305	295	290	300	300	260	230	220	218	220	215	223	228	240	275	305	360	340	362	368
	CNT	18	20	22	25	22	18	19	18	13	26	30	29	30	31	29	30	26	22	16	12	13	14	16	18
	UQ	390	370	350	355	320	315	320	320	318	280	240	230	230	225	220	230	230	260	300	375	400	380	420	430
	LQ	315	302	280	290	290	280	270	290	285	250	215	210	210	205	205	215	210	215	258	280	310	315	303	330
M(3000)F2	MED	275			278	295		295			300	318	330	335	335	335	325	325	320	305					
	CNT	1			2	1		1			1	12	18	17	23	16	15	7	3	1					
	UQ											325	335	340	340	340	335	325	320						
	LQ											305	320	330	330	320	320	320	317						
foF1	MED																								
	CNT																								
foE	MED												160	165	160										
	CNT												1	2	1										
h'E	MED												120	110	115										
	CNT												1	1	1										
foEs	MED	32	25	* 25	23	23	23	23	23	23	23	23	29	28	31	25	23	23	23	24	23	24	26	24	28
	CNT	27	30	31	30	28	28	28	28	28	260	29	30	23	24	28	30	30	31	30	27	29	28	27	30

SWEEP 1.4 MC TO 22.0 MC IN 8 MINUTES. AUTOMATIC. DECEMBER, 1961

TABLE 11

SLOUGH, ENGLAND (51.5N, 0.6W) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	30	32	30	27	25	25	23	24	39	55	62	63	66	65	65	60	51	37	31	27	24	24	26	30
	CNT	21	21	20	23	25	25	27	27	29	28	30	26	28	26	27	28	28	27	27	28	26	25	22	24
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	270	265	255	260	250	250	235	240	220	210	215	215	210	210	220	215	210	220	230	250	260	275	E 300	280
	CNT	26	27	28	29	27	18	17	14	29	29	30	31	30	28	29	28	30	27	24	20	19	21	25	22
	UQ																								
	LQ																								
M(3000)F2	MED	285	285	285	290	290	290	315	305	335	345	355	350	360	345	350	350	335	325	320	305	285	280	280	285
	CNT	13	12	15	18	16	18	15	15	25	19	16	21	19	19	19	22	22	22	13	19	17	15	14	9
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED									E 160	200	220	240	245	240	225	190	E 160							
	CNT									16	7	13	16	13	17	19	17	7							
h'E	MED									150	130	120	115	115	120	125	130								
	CNT									4	9	12	16	17	17	21	11								
foEs	MED	E 13	E 10	E 10	E 10	E 11	E 16	E 16	E 16	17	23	26	27	26	26	24	20	E 16	E 16	E 16	E 16	E 16	E 16	E 16	E 16
	CNT	27	26	24	23	28	29	29	29	29	300	30	31	29	28	26	26	30	29	27	30	30	30	29	28

SWEEP DECEMBER, 1961

TABLE 12

ST. JOHNS, NEWFOUNDLAND (47.6N, 52.7W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	20	21	22	22	21	20	20	33	50	60	66	71	71	71	66	62	54	45	37	30	25	22	U 20	19
	CNT	11	16	19	20	23	20	15	30	31	29	30	30	30	28	28	28	28	28	25	25	23	18	9	11
	UQ	22	24	26	28	25	22	24	37	55	64	70	74	75	74	72	68	58	50	43	36	28	23	22	23
	LQ	19	20	20	20	19	19	19	30	48	56	60	68	67	66	64	60	50	40	30	26	22	19	19	18
h'F2	MED																								
	CNT										1		1	4											
	UQ																								
	LQ																								
h'F	MED			U 295	290	245	U 240		245	220	225	225	230	230	230	230	225	220	235	240	250	260			
	CNT	2	4	9	10	11	5	3	27	30	30	29	28	30	28	30	29	30	29	25	20	12	3	3	1
	UQ																								
	LQ																								
M(3000)F2	MED	U 290	290	300	300	320	330	U 330	330	350	350	350	340	340	340	340	340	330	320	320	310	310	310		
	CNT	5	11	14	14	11	11	7	26	30	27	28	26	30	26	25	26	24	20	19	19	13	10	3	3
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT									1		1	2	1	3	2									
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. DECEMBER, 1961

TABLE

SOTTENS, SWITZERLAND 46.6N, 6.7E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	35	35	36	35	34	30	36	28	38	45	54	57	68	67	65	67	58	47	37	33	32	30	31	32
	CNT	28	27	27	26	28	27	28	27	28	28	28	26	27	28	27	27	28	28	28	25	27	24	25	27
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	280	270	275	270	260	255	250	250	220	210	220	220	220	210	210	230	220	230	230	240	250	250	280	290
	CNT	29	28	27	27	29	28	27	27	28	28	26	26	24	27	25	27	28	27	28	25	27	24	25	27
	UQ																								
	LQ																								
M(3000)F2	MED	295	300	295	300	300	315	325	320	340	360	360	350	360	345	350	350	360	340	330	325	320	310	295	295
	CNT	28	26	27	26	27	26	27	26	25	21	24	18	20	20	24	25	24	24	25	25	26	22	24	26
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED										205	240	260	270	270	260	240	200							
	CNT										8	13	9	11	15	13	12	5							
h'E	MED										150	120	110	110	120	120	120	130							
	CNT										9	17	16	15	11	15	14	5							
fo Es	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. DECEMBER, 1961

TABLE 14

SINGAPORE, BRITISH MALAYA 1.3N, 103.8E) TIME 105.0E

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
fo F2	MED	58	49	48	48	41	34	42	65	74	81	86	89	90	92	94	96	95	97	95	87	82	80	79	69
	CNT	30	29	29	29	31	29	30	30	30	30	31	30	26	30	31	31	29	31	30	29	29	26	27	26
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	300	295	305	320	325	330	325	320	290	255	240	230	220	220	230	235	250	255	260	265	265	290	315	320
	CNT	30	29	29	29	31	29	29	30	30	30	31	30	26	30	31	31	29	31	30	29	29	25	27	26
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED	95	95	95		105	100	150	235	285	320	345	360	355	345	340	325	285	230	160					
	CNT	2	1	1		1	2	14	23	27	25	24	23	19	15	18	15	15	15	4					
h'E	MED																								
	CNT																								
fo Es	MED	21	11	11	12	11	11	G	26	30	33	31	34	37	38	37	36	31	29	26	31	26	26	24	25
	CNT	11	11	11	14	13	21	31	30	31	300	31	30	29	30	31	31	30	31	31	23	23	18	13	8

SWEEP DECEMBER, 196

TABLE 15

WAKKANAI, JAPAN 45.4N, 141.7E) TIME 135.0E

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
fo F2	MED	36	37	38	37	35	35	35	56	72	72	82	90	85	77	73	72	66	45	34	33	35	36	37	38
	CNT	22	22	23	23	23	25	25	23	23	25	24	24	25	25	25	25	27	27	27	26	26	25	22	20
	UQ	40	40	40	42	43	38	38	62	75	79	86	98	90	84	80	78	72	53	40	38	37	37	39	40
	LQ	34	33	33	32	33	32	32	53	64	70	76	82	80	68	66	64	53	33	30	30	31	32	33	33
h'F2*	MED										225	245	250	240											
	CNT										1	1	9	6											
	UQ																								
	LQ																								
h'F	MED	305	300	285	285	255	240	250	220	225	225	230	230	225	235	235	225	215	225	250	280	270	300	305	300
	CNT	25	25	25	25	25	24	24	22	23	24	24	24	25	25	25	25	27	27	27	26	26	26	25	25
	UQ																								
	LQ																								
M(3000)F2	MED	285	295	295	300	305	325	325	355	350	345	340	340	345	340	345	345	345	335	315	310	310	300	295	290
	CNT	22	22	23	23	23	25	25	23	23	25	24	24	25	25	25	25	27	27	27	26	26	25	22	20
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED								210	230	260	270	285	290	275	240	215								
	CNT								2	13	16	18	17	15	18	17	9								
h'E	MED																								
	CNT																								
fo Es	MED	E		E		E	E	E						G	G	G	G		F	E	E	E	F	E	E
	CNT	25	16 25	25	13 25	25	25	23	26 7	29 21	32 240	32 24	32 23	24	25	24	16	26 12	27	27	25	26	26	25	25

SWEEP 1.0 MC TO 18.0 MC IN 1 MINUTE. NOVEMBER, 1961

TABLE 16

AKITA, JAPAN 39.7N, 140.1E) TIME 135.0E

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
fo F2	MED	36	36	36	35	36	33	36	59	72	80	80	88	85	82	78	72	63	47	36	33	34	34	36	35
	CNT	24	25	26	26	26	27	28	28	27	28	26	28	28	28	28	28	28	28	28	27	27	27	26	25
	UQ	38	39	39	39	39	37	40	66	73	84	86	96	91	88	84	80	68	56	42	38	37	39	37	36
	LQ	32	32	32	34	32	30	32	56	64	70	77	82	76	73	71	67	56	38	30	30	32	31	32	32
h'F2	MED									240	245	245	250	245	250	250									
	CNT									2	17	23	22	23	19	14									
	UQ																								
	LQ																								
h'F	MED	290	285	285	280	255	245	245	230	230	225	220	220	220	230	235	235	210	210	245	245	255	275	285	290
	CNT	28	28	28	28	27	28	28	28	28	27	28	28	28	28	28	28	28	28	27	27	29	28	28	28
	UQ																								
	LQ																								
M(3000)F2	MED	290	295	300	300	310	315	320	350	350	355	345	340	340	340	350	350	360	340	320	310	305	300	300	295
	CNT	24	25	26	26	26	27	28	28	27	28	28	28	28	28	28	28	28	28	28	27	27	27	26	25
	UQ																								
	LQ																								
fo F1	MED									310	U 360	400	400	U 380		340									
	CNT									1	1	4	7	1		1									
fo E	MED								185	250	280	295	300	305	300	275	240	E							
	CNT								11	14	14	15	15	20	20	19	9	10							
h'E	MED																								
	CNT																								
fo Es	MED	E		E	E	E	E	E	G										E	E	E			-	E
	CNT		17 27	28	28	28	28	28	28	28 28	32 270	36 28	36 28	33 28	32 28	31 28	28 28	21 26	28	28	28	17 29	17 29	17 29	29

SWEEP 1.6 MC TO 20.0 MC IN 20 SECONDS. NOVEMBER, 1961

TABLE 17

TOKYO, JAPAN (35.7N, 139.5E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	35	35	35	35	35	32	39	65	75	80	84	88	85	89	91	78	67	50	38	33	34	34	34	35
	CNT	28	28	27	27	27	27	27	27	27	29	29	28	28	29	29	29	29	28	28	28	28	28	29	29
	UQ	37	37	36	38	38	36	41	69	84	90	90	99	98	95	96	82	74	54	42	36	38	36	38	38
	LQ	33	34	32	33	33	29	32	58	69	72	77	82	80	78	72	68	62	43	34	31	31	31	31	32
h'F2	MED								250	235	245	240	240	250	250	245	230								
	CNT								1	5	17	23	22	22	18	16	2								
h'F	MED	280	260	275	255	250	E 260	240	210	210	210	205	210	210	220	225	215	205	205	225	245	260	275	290	290
	CNT	27	27	26	26	26	26	26	27	27	28	29	28	27	27	29	29	29	26	24	25	26	27	26	27
M(3000)F2	MEQ	290	295	290	305	310	300	315	350	350	340	340	335	330	335	340	345	345	335	320	315	300	300	280	290
	CNT	28	28	27	27	27	27	27	27	26	29	29	28	28	29	29	29	29	28	28	28	28	28	29	29
foF1	MEQ											U 440	U 480		U 380	U 350									
	CNT											1	2		1	1									
foE	MEQ								U 220	260	290	305	320	310	310	290	255	U 215							
	CNT								6	18	19	14	10	14	19	18	16	3							
h'E	MEQ																								
	CNT																								
foEs	MED	25	23	21	E	E	21		G	29	33	34	37	33	33	33	28	24	25	25	24	30	31	28	25
	CNT	9	8	10	14	20	4		6	22	250	27	27	26	28	27	24	13	8	9	14	14	12	14	14

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS. NOVEMBER, 1961

TABLE 18

YAMAGAWA, JAPAN (31.2N, 130.6E) TIME 135.0E

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	34	33	34	34	30	29	54	70	74	85	91	84	92	98	88	76	64	49	42	41	38	34	32
	CNT	30	30	29	30	30	30	30	30	29	30	29	29	30	30	30	30	30	30	30	30	30	29	30	30
	UQ	35	36	35	35	36	33	31	58	78	85	90	100	91	99	111	100	82	68	54	47	45	44	37	35
	LQ	30	31	32	32	32	27	25	47	65	71	80	82	79	85	83	75	66	58	42	36	35	32	31	29
h'F2	MEQ											265	255	255	265	260	245								
	CNT											6	16	13	8	7	4								
h'F	MEQ	305	E 305	275	255	250	250	280	240	235	230	230	230	230	220	230	235	230	225	225	245	250	255	265	300
	CNT	29	30	30	29	30	27	27	30	30	30	30	30	28	30	29	29	30	30	30	29	28	28	30	28
M(3000)F2	MEQ	290	290	295	300	320	310	300	340	350	345	340	345	330	325	335	345	350	340	335	310	305	305	310	290
	CNT	30	30	29	30	30	30	30	30	29	30	29	29	30	30	30	30	30	30	30	30	30	29	30	30
foF1	MED												440	U 440	440	U 430									
	CNT												2	2	2	1									
foE	MED								180	230	270	300	315	320	320	305	280	230	180						
	CNT								6	29	30	28	26	25	25	27	26	23	2						
h'E	MEQ																								
	CNT																								
foEs	MED	21	27	18	E	E	17	18	G	G	31	35	37	38	37	36	31	27	22	23	24	26	27	27	22
	CNT	11	11	23	30	30	11	6	17	30	280	30	29	30	30	30	30	30	25	17	9	10	10	6	14

SWEEP 1.0 MC TO 20.0 MC IN 30 SECONDS. NOVEMBER, 1961

TABLE 19

BAGUIO, LUZON (16.4N, 120.6E) 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	MEQ	66	61	58	44	32	25	41	73	83	101	110	110	107	109	112	113	113	110	107	98	93	90	85	72
	CNT	29	29	29	29	28	26	28	29	29	29	29	29	29	29	28	24	23	22	27	27	28	29	29	28
	UQ	78	74	61	49	37	30	47	78	91	109	114	114	112	115	115	117	120	120	112	110	102	98	96	87
	LQ	56	52	50	39	25	21	38	65	76	93	104	106	104	104	105	110	107	101	99	95	82	80	70	64
h'F2	MED									U 280	300	310	325	330	315	315	295	275							
	CNT									7	14	20	13	13	13	11	8	9							
h'F	MED	250	250	240	225	240	280	280	255	245	230	230	215	220	220	220	235	250	260	255	250	245	250	245	250
	CNT	29	29	29	28	27	13	29	29	27	21	19	22	21	19	19	20	26	29	29	29	27	28	29	28
M(3000)F2	MED	315	325	330	335	320	300	310	330	320	305	300	270	270	265	280	290	310	315	310	315	305	310	320	320
	CNT	29	29	29	29	28	22	28	29	28	29	27	26	27	29	27	24	22	20	25	24	26	28	28	26
	UQ	325	335	340	350	330	310	315	340	330	320	315	290	285	285	290	300	315	325	325	320	315	320	325	325
	LQ	300	305	325	320	295	275	300	320	315	300	280	255	250	250	265	280	300	300	300	295	290	300	310	310
foF1	MED										U 440	U 480	U 480	U 480	470	430									
	CNT										1	1	4	2	1	1									
foE	MED								235	290	U 320	335	U 345	U 345	U 335	U 320	U 295	U 250	O 180						
	CNT								10	15	17	18	12	11	9	12	5	4	1						
h'E	MEQ								121	121	121	121	121	121	121	121	128	122	E 141						
	CNT								5	9	14	16	12	15	10	8	2	2	1						
foEs	MED										36	38			37	36	35	32	28	24		20			
	CNT	29	29	29	29	29	28	29	29	29	280	27	30	29	27	28	30	30	29	29	29	29	29	29	29

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. NOVEMBER, 1961

TABLE 20

PORT MORESBY, PAPUA (9.4S, 147.1E) TIME 150.0E

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	79	U 74	66	66	56	50	54	66	78	91	98	111	U 113	O 116	U 124	U 120	112	107	U 98	U 95	U 90	U 93	U 94	U 98
	CNT	16	19	15	17	19	21	22	20	20	17	17	13	12	11	7	14	19	21	23	17	19	16	14	14
h'F2	MEQ																								
	CNT																								
h'F	MED	210	240	240	200	210	225	225	210	200	190	180	180		180	180	195	200	220	235	260	280	270	250	225
	CNT	22	20	20	20	18	19	20	19	18	8	8	6	4	6	5	13	12	11	22	22	23	22	22	22
M(3000)F2	MED	310	290	300	315	310	310	325	320	310	295	280	U 275	U 285	U 295	U 295	U 305	310	305	290	270	U 275	U 275	U 300	U 305
	CNT	16	19	15	17	19	21	22	20	20	17	17	11	10	5	6	11	17	21	23	17	19	15	14	14
foF1	MEQ									430	450	460	480	480	480	460	460	430							
	CNT								2	5	16	12	12	15	16	15	13	6							
foE	MED							180	245	290	320	O 340				340	320	290	235						
	CNT							8	8	14	12	9	2	2	2	8	11	15	16	1					
h'E	MED							130	100	100	100	100	100	100	100	100	100	100	100						
	CNT							11	16	17	13	13	11	12	15	13	16	16	17	1					
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. NOVEMBER, 1961

TABLE 21

JOHANNESBURG, UNION OF S. AFRICA (26.1S, 28.1E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	48	46	42	40	38	40	56	64	70	79	88	95	100	100	103	101	97	96	91	83	73	60	52	49
	CNT	27	27	27	27	26	26	26	26	26	25	24	25	26	27	27	27	27	27	27	27	27	27	27	27
	UQ																								
	LQ																								
h'F2	MED							240	255	300	310	315	315	315	305	300	295	280	270	250					
	CNT							2	11	21	22	24	24	26	27	27	27	27	26	5					
	UQ																								
	LQ																								
h'F	MED		E	235	250	250	250	235	220	205	200	200	195	195	210	210	215	215	225	245	225	220	230	255	275
	CNT		225																						
	UQ		1	3	4	10	25	26	26	23	21	20	18	18	19	20	21	18	19	26	23	16	8	3	1
	LQ																								
M(3000)F2	MED	290	300	300	300	300	320	330	315	300	285	280	285	285	285	290	295	295	305	315	315	315	300	295	285
	CNT	27	27	27	26	26	26	26	26	26	25	24	24	26	27	27	27	27	27	27	27	27	27	27	27
	UQ																								
	LQ																								
fo F1	MED								400	450	470	480	480	480	480	470	460	430	U						
	CNT								2	13	17	23	25	24	25	24	24	18	400 8						
fo E	MED						E	210	270	310	330	350	360	360	360	350	330	300	260	180	E				
	CNT						16	23	20	22	20	17	16	16	20	23	24	26	22	11	140 2				
h'E	MED																								
	CNT																								
fo Es	MED	E					G																E	E	E
	CNT	13 26	14 26	13 27	17 27	12 26	25	22 26	30 26	35 25	38 250	39 24	40 24	39 25	40 27	38 26	36 26	33 27	30 26	24 27	17 27	16 27	14 26	14 26	13 27

SWEEP 1.0 MC TO 15.0 MC IN 1 MINUTE 30 SECONDS. NOVEMBER, 1961

TABLE 22

BRISBANE, AUSTRALIA (27.5S, 152.9E) TIME 150.0E

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
fo F2	MED	U																						U	
	CNT	64 17	57 16	50 18	48 18	44 18	50 19	57 23	60 25	64 25	69 25	76 26	82 25	86 25	84 25	84 25	84 26	82 25	80 26	79 27	73 27	67 26	64 26	62 25	64 23
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	290	290	285	285	285	315	320	295	290	285	290	285	285	290	290	295	305	300	305	285	280	275	280	280
	CNT	14	14	17	17	17	18	22	25	25	25	26	25	25	25	25	25	25	26	27	26	25	25	23	18
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h'E	MED																								
	CNT																								
fo Es	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 55 SECONDS. NOVEMBER, 1961

TABLE 23

CAPETOWN, UNION OF S. AFRICA (34.1S, 18.3E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	42	41	40	41	40	40	51	60	69	76	79	87	94	98	100	98	96	90	86	78	74	62	50	44
	CNT	30	30	30	30	30	30	29	30	30	29	29	29	29	29	29	29	29	30	30	30	30	30	30	30
	UQ																								
	LQ																								
h'F2	MED								260	300	305	320	330	325	320	310	305	290	280	260	245				
	CNT								6	20	25	26	29	29	29	29	29	29	28	24	9				
	UQ																								
	LQ																								
h'F	MED						245	240	230	225	210	210	200	205	205	210	215	215	220	235	240	230	220	225	
	CNT						3	28	29	27	21	20	14	12	15	19	20	24	28	28	27	28	23	11	
	UQ																								
	LQ																								
M(3000)F2	MED	285	285	285	290	290	295	325	320	300	290	285	280	280	285	285	285	295	300	315	320	320	320	305	295
	CNT	29	29	29	29	29	29	28	29	29	28	28	29	29	29	29	29	29	30	30	30	30	30	30	29
	UQ																								
	LQ																								
fo F1	MED								400	430	460	470	480	480	480	480	460	440	410	370					
	CNT								1	8	17	18	18	25	22	23	23	15	5	1					
fo E	MED							170	240	290	320	340	350	360	360	U 350	330	310	290	240	180				
	CNT							21	26	28	27	21	17	14	13	15	17	22	28	25	11				
h'E	MED																								
	CNT																								
fo Es	MED			E		E	E	G									G	C	G	G	G	E	E	E	
	CNT	16 26	18 30	15 29	15 30	14 30	13 30	28	27 30	31 29	34 28	37 27	34 28	39 23	38 29	37 27	27	26	30	30	30	15 25	14 30	15 29	17 29

SWEEP 1.0 MC TO 17.0 MC IN 7 SECONDS. NOVEMBER, 1961

TABLE 24

CANBERRA, AUSTRALIA (35.3S, 149.0E) TIME 150.0E

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
fo F2	MED	54	50	44	40	37	40	50	55	58	60	67	68	70	70	69	69	70	72	70	70	70	U		
	CNT	24	26	25	26	26	24	26	25	25	23	22	24	21	23	23	26	26	28	28	27	25	62 25	58 24	55 23
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	290	310	310	290	300	320	325	335	320	305	310	310	310	310	305	310	310	315	315	310	300	285	285	285
	CNT	12	16	18	24	22	23	21	23	21	16	19	22	19	19	21	25	26	26	25	20	13	8	13	17
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h'E	MED																								
	CNT																								
fo Es	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. NOVEMBER, 1961

TABLE 25

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 56	U 55	50	47	40	42	46	54	58	62	66	68	68	69	69	69	68	68	68	73	U 73	U 69	U 67	U 58
	CNT	24	24	25	24	25	24	26	26	26	27	26	27	28	25	27	27	29	27	25	26	22	21	24	20
	UQ																								
	LO																								
h'F2	MED								290	290	310	300	310	320	310	310	310	300	290	280					
	CNT								9	21	24	25	25	27	23	27	25	22	15	10					
	UQ																								
	LO																								
h'F	MED	260	260	250	250	240	250	240	230	230	210	200	200	200	200	210	210	220	230	240	260	250	250	250	260
	CNT	12	14	19	16	12	26	26	21	23	22	17	16	20	18	26	24	24	22	19	16	16	13	12	10
	UQ																								
	LQ																								
M(3000)F2	MED	U 280	U 280	285	280	285	300	310	310	315	300	310	300	300	305	300	305	300	305	300	295	U 290	U 285	U 280	U 280
	CNT	22	19	24	24	24	24	24	26	25	26	26	25	28	24	26	27	28	26	26	25	23	21	22	20
	UQ																								
	LO																								
foF1	MED						U 280	U 320	U 370	420	420	440	470	460	470	460	440	U 410	U 390						
	CNT						3	3	3	5	9	14	11	17	15	11	8	4	2						
foE	MED				U 110		169	U 220	U 260	U 300	310	340	U 340	350	350	U 340	330	U 310	280	240	U 180				
	CNT				1		9	10	7	9	8	6	7	8	10	12	19	18	19	14	5				
h'E	MED						110	110	110	105	105	105	100	100	100	100	105	105	110	110	U 130				
	CNT						5	15	23	25	23	25	23	23	19	22	22	24	26	26	1				
foEs	MED	E 17	E 17	E 16	14	E 14	16	24	30	32	33	38	38	38	35	35	G 27	31	28	28	28	23	27	18	23
	CNT	27	27	27	27	27	27	27	27	27	270	27	27	28	25	27	27	28	28	28	28	28	28	28	26

SWEEP NOVEMBER, 1961

TABLE 26

KIRUNA, SWEDEN (67.8N, 20.4E) 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	25	26	22	28	20	24	31	45	53	60	62	67	68	66	63	58	55	53	47	37	26	31	27	32
	CNT	6	6	12	14	14	16	22	27	28	28	28	27	30	29	29	29	22	21	15	8	3	2	2	3
	UQ																								
	LO																								
h'F2	MED										240	240	245	235	235	230									
	CNT									1	8	14	19	15	15	5									
	UQ																								
	LO																								
h'F	MED	295	300	295	295	275	265	250	235	230	225	220	215	215	220	225	225	225	230	240	250	250	265	275	295
	CNT	15	17	20	24	22	22	25	26	26	27	26	26	28	29	30	30	28	25	24	25	21	22	19	18
	UQ																								
	LO																								
M(3000)F2	MED	280	285	280	280	290	295	310	330	340	330	340	330	340	340	340	340	335	320	310	305	300	300	295	280
	CNT	6	4	8	12	13	16	21	26	27	29	27	27	30	26	29	28	22	19	15	8	3	2	2	3
	UQ																								
	LO																								
foF1	MED									330	330	340	350	340	325	300									
	CNT									1	5	8	13	12	10	3									
foE	MED							140	160	200	210	220	235	240	235	200	195	160	145						
	CNT							4	7	17	23	22	18	21	22	23	16	6	2						
h'E	MED									115	110	110	105	105	105	110	115								
	CNT							1	1	4	7	11	9	10	11	10	1								
foEs	MED	40	36	34	38	43	35						26					24	30	34	31	35	41	45	42
	CNT	24	18	20	19	14	15	12	20	24	240	23	25	27	28	29	28	27	21	18	18	15	16	22	23

SWEEP 0.8 MC TO 15.0 MC IN 30 SECONDS. OCTOBER, 1961

TABLE 27

INVERNESS, SCOTLAND (57.4N, 4.2W) 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	32	30	U 27	23	23	21	24	41	54	63	66	72	74	76	76	72	68	64	63	58	54	42	36	34
	CNT	15	10	10	12	17	18	20	29	30	29	30	30	30	30	30	31	30	28	27	27	24	20	18	14
	UQ																								
	LQ																								
h'F2	MED										260	300	250	250	255	250	420	320							
	CNT										5	14	23	25	21	12	3	1							
	UQ																								
	LO																								
h'F	MED	300	300	300	300	290	290	260	240	225	225	220	215	210	215	220	235	235	235	240	240	240	250	260	290
	CNT	24	23	23	22	18	15	19	28	30	29	30	28	30	29	29	30	30	30	29	30	27	27	24	18
	UQ																								
	LQ																								
M(3000)F2	MED	285	265	270	275	285	290	305	320	330	335	325	320	325	325	325	320	330	330	310	315	310	310	280	280
	CNT	7	4	2	7	7	6	9	23	18	23	25	29	28	27	26	24	21	20	19	15	11	11	12	8
	UQ																								
	LQ																								
foF1	MED									280	320	380	390	400	380	320	380	320							
	CNT									1	3	3	6	4	3	2	2	1							
foE	MED								170	200	250	260	270	280	275	265	245	210	175						
	CNT								16	25	20	16	20	27	25	26	23	22	11						
h'E	MED								150	130	120	115	115	110	115	115	120	135	145						
	CNT								6	18	22	26	24	26	23	20	20	16	2						
foEs	MED	E 14	E 11	E 10	E 11	E 11	E 16	E 15	16	23	26	28	30	28	29	27	26	20	E 16	E 16	E 16	E 16	E 16	E 16	E 16
	CNT	21	21	18	25	18	29	24	28	31	310	30	31	31	30	31	31	29	24	25	28	25	29	27	25

SWEEP OCTOBER, 1961

TABLE 28

JULIUSRUM/RUGEN, GERMANY (54.6N, 13.4E) 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	34	34	33	33	31	26	31	48	58	67	72	77	75	77	78	76	71	67	62	55	49	41	38	34
	CNT	21	25	26	23	25	26	29	29	27	29	29	29	28	27	26	27	27	28	27	27	29	26	27	26
	UQ																								
	LQ																								
h'F2	MED										295	260	280	280	340	370	325								
	CNT										1	4	12	7	2	3	1								
	UD																								
	LO																								
h'F	MED	280	280	290	290	280	260	250	230	230	225	225	220	220	220	230	235	235	230	230	230	230	240	260	280
	CNT	22	26	24	23	26	28	24	27	29	29	29	24	26	25	25	26	27	29	28	28	28	25	23	23
	UQ																								
	LQ																								
M(3000)F2	MED	275	275	275	270	285	295	300	300	335	330	325	325	320	320	320	330	330	325	315	310	320	305	285	280
	CNT	20	23	23	21	23	22	25	29	25	22	24	21	22	23	25	25	23	27	23	26	28	25	23	21
	UQ																								
	LQ																								
foF1	MED									300		U 380	U 420	U 410	400	U 380	370								
	CNT									1		4	6	6	1	2	1								
foE	MED								190	230	260	280	290	300	295	270	255	220	175						
	CNT								12	24	19	8	8	17	15	18	23	14	5						
h'E	MED																								
	CNT																								
foEs	MED	25	20	22	16	22	21	24	20	G	27	31	32	30	27	29	G	24	23	23	21	27	24	23	22
	CNT	7	9	12	13	8	8	12	21	27	270	29	27	26	24	22	26	27	21	17	15	12	10	10	9

SWEEP 0.5 MC TO 20.0 MC IN 25 SECONDS. OCTOBER, 1961

TABLE 30

OKINAWA I. (26.3N, 127.8E) TIME 135.0E

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 50	47	46	42	40	33	31	64	78	84	98	106	105	118	128	137	125	120	111	94	D 75	72	D 70	D 59
	CNT	28	29	29	31	29	25	28	31	31	31	31	31	31	31	31	31	31	30	29	30	31	31	30	29
	UQ	64	58	54	51	43	38	36	70	84	95	106	113	116	127	140	147	144	135	124	113	97	90	89	71
	LQ	42	40	38	37	34	27	28	59	73	76	91	98	100	110	119	123	114	102	93	76	69	64	64	50
h'F2	MED									232	250	260	E 266	270	300	288	271	256	241						
	CNT									19	12	21	23	22	22	29	30	30	24	1	0				
	UQ									240	255	278	279	287	310	304	287	264	247						
	LQ									230	248	249	258	253	287	280	263	241	238						
h'F	MED	E 288	274	259	243	228	E 246	E 286	230	229	220	217	210	204	207	230	U 239	E 220	238	220	E 216	E 221	E 250	240	250
	CNT	30	30	30	31	31	26	28	31	28	29	30	29	26	28	27	28	22	18	28	30	31	31	30	30
	UQ	298	300	275	267	239	308	320	236	232	232	224	224	217	228	241	254	246	243	230	219	234	261	258	267
	LQ	268	262	239	233	212	232	260	227	222	213	206	202	193	200	220	228	234	233	217	210	213	230	230	240
M(3000)F2	MED	285	295	310	320	340	315	305	355	355	335	325	325	305	300	310	320	325	335	340	330	U 310	300	310	295
	CNT	21	23	24	26	25	23	25	31	31	31	30	31	31	29	28	27	26	29	28	19	19	19	19	21
	UQ	300	305	320	335	365	340	310	360	365	340	340	335	320	310	315	320	330	340	350	340	320	305	320	310
	LQ	280	280	290	295	310	290	290	350	350	325	315	315	295	295	300	315	315	330	330	325	280	280	295	280
foF1	MED																								
	CNT													1		1									
foE	MED															U 340	325	U 290							
	CNT									1	3	2	1	2	4	7	5	7	1						
h'E	MED									U 116	U 111	U 111		E 112	E 115	E 115	E 118	U 116							
	CNT									16	17	10	4	8	13	15	18	16	3						
foEs	MED									31	35	37	37	D 39	41	39	38	36	42	36	31	28			
	CNT	27	28	31	31	31	29	29	31	31	310	31	31	31	31	31	31	31	30	29	30	31	29	25	28

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. OCTOBER, 1961

TABLE 31

IBADAN, NIGERIA (7.4N, 3.9E) 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 94	D 87	U 79	U 56	U 46	U 26	61	86	97	97	86	86	91	98	105	U 107	U 111	D 101	D 90	U 97	U 100	U 100	U 100	D 90
	CNT	26	26	26	25	25	24	23	25	25	27	27	28	27	27	28	27	26	28	24	26	27	28	27	26
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	250	240	240	240	235	240	250	240	220	210	200	200	200	200	200	210	240	255	310	355	320	295	250	250
	CNT	26	25	23	24	25	18	23	23	25	26	26	25	21	20	21	22	16	24	22	26	26	27	26	26
	UQ																								
	LQ																								
M(3000)F2	MED	U 325	U 340	U 335	U 340	U 340	U 315	350	330	290	250	255	255	255	255	260	255	255	260	245	235	U 265	U 290	U 300	U 320
	CNT	5	7	12	16	14	13	18	23	23	27	27	27	27	27	28	25	13	5	10	10	3	4	6	6
	UQ																								
	LQ																								
foF1	MED										500	U 500	U 500	U 500	U 490	U 460	U 450								
	CNT										2	12	17	16	13	5	1								
foE	MED							200	275	330	360	375	385	390	380	350	330	300	205						
	CNT							22	21	22	24	22	23	19	19	16	15	16	23						
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	G	G		51	90	91	91	90	90	62	45	G	G	G	E	E	E	E
	CNT	26	26	26	25	25	24	23	25		25	270	27	28	27	28	29	28	28	28	24	26	27	28	27	26

SWEEP OCTOBER, 1961

TABLE 31

TROMSO, NORWAY (69.7N, 19.0E) 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		39		33	32	33	43	50	54	58	60	61	60	61	58	55	51	51	52	46	45			
	CNT	2	5	4	10	13	15	13	12	13	16	20	26	26	21	22	21	21	23	18	14	5	4	4	4
	UQ		43		37	36	40	46	53	57	60	62	64	65	66	65	62	60	57	52	51	46			
	LQ		24		28	28	32	42	48	50	54	56	55	56	56	54	52	48	50	49	43	42			
h'F2	MED											295	305	315				245	250						
	CNT						1	3	1	2	4	7	10	7	2	2	3	6	9	3					
	UQ											315	345	345				250	255						
	LQ											290	260	260				245	240						
h'F	MED			305	300	285	280	260	245	245	240	220	220	220	240	235	245	245	255	250	250	275			
	CNT	1	2	5	6	6	8	6	7	9	8	11	11	14	12	11	13	6	7	8	9	5	2	1	3
	UQ			330	305	300	495	260	250	245	245	245	240	245	245	240	250	245	260	250	255	280			
	LQ			290	380	285	260	255	240	240	230	215	210	210	220	230	240	245	245	240	245	260			
M(3000)F2	MED				280	285	290	305	305	310	310	310	310	310	310	310	310	310	310	310	300				
	CNT	1	2	1	5	6	8	10	5	6	11	18	22	21	17	16	13	16	16	12	8	4	1	2	1
	UQ				285	290	290	310	330	330	310	310	315	320	315	330	325	320	315	310	310				
	LQ				270	270	280	290	300	305	305	290	295	305	310	310	305	310	300	300	295				
foF1	MED										410	410	410	410											
	CNT									2	5	5	9	7		1		1							
foE	MED							190		240	260		275	285	265	250	245	215							
	CNT						2	5	3	6	6	4	7	9	7	9	5	7	2	3					
h'E	MED									110	110	105	110	110	105	110	115	115							
	CNT						2	4	3	6	7	5	6	8	5	7	8	5	3	2					
foEs	MED	40	35	36	32	27	19	G	20	G 18	G 25	26	G	G	G 27	G	G 25	29	26	33	32	33	43	45	40
	CNT	17	20	16	15	9	5	7	7	8	100	9	10	12	10	9	14	16	18	18	17	21	24	17	14

SWEEP SEPTEMBER, 1961

TABLE 32

SODANKYLA, FINLAND (67.4N, 26.6E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	41					34	39	47	50	55	58	60	61	60	61	60	56	56	55	49	52	49	47	41
	CNT	1					2	15	23	22	21	24	20	23	24	23	22	23	22	17	12	5	3	5	2
	UQ							40	50	56	61	64	66	68	67	67	66	63	60	60	54	55	52	52	
	LQ							38	42	48	49	54	55	57	58	57	56	53	53	50	47	49	47	44	
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	315	320	320	315	310	280	260	250	240	225	220	210	210	210	215	230	230	240	248	245	260	260	290	290
	CNT	24	23	24	25	25	27	28	26	27	25	25	27	28	28	28	27	30	28	28	26	26	26	23	22
	UQ	365	360	358	335	340	300	270	260	260	230	230	215	218	225	225	230	240	250	260	260	300	320	360	360
	LQ	290	300	290	300	280	270	240	230	225	215	210	210	200	210	205	220	220	230	240	235	240	240	260	280
M(3000)F2	MED	260					300	300	300	300	292	300	305	305	305	315	310	310	310	305	305	295	290	290	288
	CNT	1					1	15	22	21	20	23	20	23	22	22	22	23	21	17	10	5	3	5	2
	UQ							300	305	312	310	310	314	320	310	320	315	315	315	310	310	300	290	290	
	LQ							290	290	290	290	290	293	300	300	310	310	300	305	300	300	290	290	290	
foF1	MED								350	380	390	410	430	420	430	410									
	CNT								1	1	3	3	5	6	3	1									
foE	MED						180	180	218	240	255	270	280	280	287	278	270	240	225	190	165				
	CNT						1	6	12	17	16	20	22	21	22	20	18	20	20	9	5				
h'E	MED						115	125	120	120	118	115	115	115	115	115	115	118	120	145	125				
	CNT						1	7	13	16	16	20	20	21	20	19	18	18	17	7	1				
foEs	MED	25	26	25	24	23	24	25	31	34	37	38	37	34	37	39	36	34	34	29	25	24	24	25	25
	CNT	26	27	28	28	28	25	17	10	8	60	5	7	8	9	11	9	7	16	23	27	27	28	29	28

SWEEP 1.4 MC TO 22.0 MC IN 8 MINUTES, AUTOMATIC. SEPTEMBER, 1961

TABLE 33

UPPSALA, SWEDEN (59.8N, 17.6E) 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	31	29	27	25	23	31	42	50	55	58	62	63	64	64	63	61	61	62	62	62	59	50	45	37
	CNT	27	25	24	25	28	29	28	29	28	30	30	30	30	30	30	30	30	29	30	30	30	29	29	25
	UQ																								
	LQ																								
h'F2	MED								330	290	295	285	290	280	280	270	260								
	CNT							1	2	14	17	28	25	26	21	20	9	1							
	UQ																								
	LQ																								
h'F	MED	U 260	275	270	260	U 260	255	235	220	210	200	200	200	200	205	U 205	210	220	225	240	240	240	240	U 250	U 255
	CNT	29	29	29	29	28	28	28	27	28	27	28	26	26	27	29	30	28	28	30	29	30	30	30	29
	UQ																								
	LQ																								
M(3000)F2	MED	260	270	270	260	270	290	310	310	320	310	310	310	310	310	320	310	310	310	310	300	300	290	280	270
	CNT	27	25	24	25	28	29	29	29	28	30	30	30	30	30	30	30	30	29	30	30	30	29	29	25
	UQ																								
	LQ																								
foF1	MED								385	400	420	430	435	440	430	425	400	380							
	CNT							1	2	15	19	28	24	28	21	20	10	1							
foE	MED						145	180	220	250	265	290	290	300	295	290	265	250	210	180	U 105	70			
	CNT						10	26	26	29	28	21	25	25	26	27	28	27	26	11	2	1			
h'E	MED						110	105	105	105	105	105	105	105	105	105	105	105	105	U 105	105	145			
	CNT						11	19	24	28	26	27	28	25	24	27	28	19	18	6	2	1			
foEs	MED																								
	CNT																								

SWEEP 0.33 MC TO 20.0 MC IN 3 MINUTES. SEPTEMBER, 1961

TABLE 34

WARSAW, POLAND (52.2N, 21.2E) 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	40	39	35	32	37	46	59	59	72	66	68	68	70	67	65	65	64	61	62	60	52	46	42
	CNT	28	27	28	26	27	28	29	29	29	29	29	29	29	29	29	28	29	29	30	28	27	28	29	29
	UQ	38	36	34	33	30	32	43	49	54	60	60	63	64	62	62	60	60	60	60	60	52	46	41	40
	LQ	44	43	42	40	38	39	50	54	65	66	76	76	73	74	70	70	69	69	70	68	61	55	51	47
h'F2	MED									280	280	290	280	300	280	280									
	CNT						1	3	5	19	20	21	25	21	11	14	4	1	1	1					
	UQ									260	270	265	270	280	270	255									
	LQ									305	300	300	300	310	290	290									
h'F	MED	E 310	E 300	E 300	E 300	E 290	285	250	240	230	220	210	215	215	220	220	230	245	250	250	E 250	E 250	E 250	E 280	E 290
	CNT	28	27	28	27	29	28	27	29	29	28	30	29	29	28	28	28	28	29	30	29	29	29	30	30
	UQ	310	310	310	310	310	280	260	240	230	225	220	220	225	230	230	240	250	250	260	260	270	290	290	300
	LQ	300	290	290	290	280	250	240	230	220	210	200	200	210	215	215	220	240	245	240	245	250	250	260	280
M(3000)F2	MED	280	275	280	285	290	310	325	320	320	320	320	320	315	315	320	320	320	320	310	300	300	300	290	280
	CNT	26	24	25	24	25	27	25	20	22	21	23	28	24	27	27	27	25	24	17	15	14	16	24	23
	UQ	270	270	270	280	280	300	315	315	305	310	315	310	310	310	310	320	310	310	300	295	295	285	280	275
	LQ	290	290	290	290	290	315	330	325	335	330	330	330	330	325	320	330	330	320	320	305	310	310	300	285
foF1	MED								410	415	440	460	470	460	440	420									
	CNT								6	18	20	21	25	19	9	14	4								
foE	MED							200	230	280	300	315	320	320	320	320	295	270	200						
	CNT							6	5	9	8	12	11	12	13	15	15	10	8						
h'E	MED								117	111	109	109	107	105	108	105	105	107							
	CNT								13	25	23	21	21	17	16	17	15	7							
foEs	MED	E 16	E	E	E	E	E 16	20	26	30	31	32	33	33	33	30	G	G	23	20	E 16	E 16	E 16	E 16	E 16
	CNT	28	28	28	27	29	29	29	28	28	290	29	26	29	30	27	28	28	26	30	29	28	28	28	29

SWEEP 1.0 MC TO 18.0 MC IN 20 SECONDS. SEPTEMBER, 1961

TABLE 35

PRUHONICE, CZECHOSLOVAKIA (50.0N, 14.6E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	41	40	38	36	33	43	52	60	64	70	68	69	71	69	69	68	69	70	70	68	69	50	44	45
	CNT	29	30	30	30	28	28	27	26	30	28	29	28	28	27	28	29	29	28	27	30	28	30	30	26
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	280	270	270	260	250	240	225	220	200	200	195	200	200	205	210	225	240	230	230	240	230	250	270	280
	CNT	27	28	28	28	28	27	22	20	26	27	18	22	21	24	27	25	22	24	24	26	23	24	19	12
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	22	E	E	14	22	20	23	28	30	32	36	35	34	32	30	27	23	20	25	40	32	27	44	36
	CNT	13	29	27	30	13	22	29	30	30	300	30	30	27	28	28	29	29	24	17	9	14	9	4	4

SWEEP 1.0 MC TO 18.0 MC. SEPTEMBER, 1961

TABLE 36

WINNIPEG, CANADA (49.9N, 97.4W) TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	28	25	25	24	26	29	33	44	49	56	58	60	60	63	64	64	64	64	64	60	55	49	38	32
	CNT	21	21	21	21	15	13	18	22	19	21	23	24	24	24	24	25	27	26	26	27	25	25	25	22
	UQ																								
	LQ																								
h'F2	MED									275	300	300	350	330	320	315	305	305	290						
	CNT								2	10	20	23	24	23	25	22	26	26	15	4					
	UQ																								
	LQ																								
h'F	MED	300	310	330	340	320	U 315	290	235	210	210	200	200	200	205	210	210	220	230	235	230	230	235	250	280
	CNT	14	16	16	17	12	7	17	20	20	21	23	24	21	21	22	25	26	25	25	26	24	25	22	18
	UQ																								
	LQ																								
M(3000)F2	MED	300	U 290	U 280					330	320	310	310	300	300	300	300	300	310	300	310	310	310	310	310	310
	CNT	11	7	5	4	4	1	4	18	17	18	19	16	18	20	19	23	27	24	23	23	21	19	15	15
	UQ																								
	LQ																								
foF1	MED										430	440	450	460	460	450	440	430							
	CNT									3	16	23	24	25	24	22	23	16	4						
foE	MED								U 230	270	300	320	330	340	340	320	310	290	260	220					
	CNT							1	5	13	16	22	23	21	20	22	22	23	19	14					
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. SEPTEMBER, 1961

TABLE 37

SOTTENS, SWITZERLAND (46.6N, 6.7E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	43	43	42	41	39	37	40	48	52	64	68	67	69	68	68	69	68	68	68	69	67	60	45	45
	CNT	27	28	28	29	29	29	27	30	29	30	29	28	29	30	29	30	27	30	28	29	28	29	27	30
	UQ																								
	LQ																								
h'F2	MED								270	280	270	270	275	290	280	280	280	270	270						
	CNT							1	5	13	26	24	25	24	27	23	25	18	9	1					
	UQ																								
	LQ																								
h'F	MED	280	290	290	280	275	260	250	230	220	220	200	200	200	200	200	205	230	240	250	240	240	240	250	265
	CNT	27	29	27	28	28	29	27	27	26	25	26	23	25	27	24	26	25	29	27	29	27	29	27	28
	UQ																								
	LQ																								
M(3000)F2	MED	285	285	290	285	290	300	315	330	330	335	335	325	325	325	320	325	325	325	330	330	320	320	305	295
	CNT	22	26	28	28	29	28	26	28	28	30	29	28	27	30	28	29	26	29	27	27	22	24	24	25
	UQ																								
	LQ																								
foF1	MED								350	400	420	440	450	460	470	460	450	410	390						
	CNT							1	5	13	25	23	25	22	26	22	21	16	9	1					
foE	MED								220	250	285	310	320	335	330	330	310	290	250						
	CNT							2	9	23	23	23	20	24	23	18	21	19	18	2					
h'E	MED								120	110	110	100	100	100	100	100	100	100	120						
	CNT							2	9	23	23	23	20	24	23	18	21	19	18	2					
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. SEPTEMBER, 1961

TABLE 38

BAGUIO, LUZON (16.4N, 120.6E) 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	U 90	U 85	72	42	32	27	53	76	86	94	U 101	101	U 103	U 106	U 114	U 125	U 130	U 130	U 116	U 106	U 100	U 95	U 94	U 88
	CNT	25	27	26	26	24	25	29	29	30	30	29	29	30	30	29	29	25	20	15	20	20	19	21	21
	UQ	96	99	97	54	42	36	56	81	91	101	104	105	112	112	120	131	140	135	134	110	105	99	98	95
	LQ	66	69	59	33	30	25	50	71	81	88	96	96	98	101	108	117	122	118	107	98	94	87	84	70
h'F2	MED								260	285	E 410	340	340	370	375	365	340	310	280						
	CNT								1	1	1	8	13	13	11	15	18	19	12						
	UQ																								
	LQ																								
h'F	MED	300	270	225	235	255	255	270	250	230	210	210	220	215	220	230	235	245	260	270	280	290	275	300	320
	CNT	28	28	28	27	23	17	27	29	24	23	22	24	21	23	22	22	25	25	29	29	30	30	29	27
	UQ																								
	LQ																								
M(3000)F2	MED	U 280	U 310	340	320	315	310	320	325	285	U 250	U 235	U 240	U 245	U 250	U 265	U 290	U 300	U 310	U 295	U 295	U 285	280	U 275	270
	CNT	25	26	24	25	22	22	29	29	30	28	29	28	30	28	29	28	25	18	14	19	15	17	21	18
	UQ	305	330	355	330	320	330	325	335	305	270	255	255	260	265	280	295	315	325	320	300	295	295	285	275
	LQ	270	300	320	305	310	295	310	315	270	240	215	230	230	240	250	270	290	305	285	280	280	275	265	265
foF1	MED											500	500	490	500	490									
	CNT											1	6	3	1	1									
foE	MED							185	250	290	325	350	360	360	370	350	325	285	215						
	CNT							1	12	11	5	3	4	1	4	7	9	8	2						
h'E	MED							139	121	119	122	121	123	123	122	121	123	121	129						
	CNT							3	9	11	2	5	4	2	6	6	8	7	1						
foEs	MED						20	23	30	40	43	43	43	42	42	40	38	33	30	28					
	CNT	28	28	28	28	27	26	29	29	30	280	28	29	30	28	30	29	29	30	30	30	30	30	28	27

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. SEPTEMBER, 1961

TABLE 39

TRELEW, ARGENTINA (43.2S, 65.3W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	42	40	41	44	43	34	35	D 58	D 64	U 76	U 77	D 82	D 92	D 92	D 90	U 76	74	D 76	U 82	D 50	43	45	43	42
	CNT	14	20	19	17	15	12	13	3	3	2	8	6	9	16	7	7	11	5	3	6	12	18	22	18
	UQ																								
	LQ																								
h'F2	MED									U 225	U 235	270	250	270	260	250	255	245	240						
	CNT									1	3	5	6	11	15	16	13	9	5						
	UQ																								
	LQ																								
h'F	MED	320	320	310	280	250	225	260	225	220	215	200	215	200	200	200	205	220	235	230	225	250	255	280	305
	CNT	20	21	18	18	16	11	10	13	10	10	7	5	5	12	11	18	16	17	17	16	15	20	22	21
	UQ																								
	LQ																								
M(3000)F2	MED	265	260	270	280	310	300	295	U 335	U 350	U 260	J 335	U 345	U 330	340	U 320	U 340	340	U 335	U 330	U 320	290	280	280	265
	CNT	12	20	18	14	15	11	13	1	2	1	6	3	3	8	2	4	10	2	2	2	8	13	16	15
	UQ																								
	LQ																								
foF1	MED														U 420	D 530	C 370								
	CNT														1	1	2								
foE	MED							U 150	200									J 270							
	CNT							1	5									1							
h'E	MED							U 159	121	105	101	101	101	101	101	101	101	105	107	101					
	CNT							1	11	10	12	12	11	12	19	23	24	16	12	8					
foEs	MED																								
	CNT																								

SWEEP 1.3 MC TO 18.0 MC IN 30 SECONDS. SEPTEMBER, 1961

TABLE 40

OKINAWA I. (26.3N, 127.8E) TIME 135.0E

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	63	64	62	57	50	47	50	73	76	72	71	80	95	107	108	112	112	106	105	101	86	72	63	60
	CNT	24	22	26	27	27	24	30	31	31	29	29	30	29	30	30	29	31	31	31	30	30	29	26	26
	UQ	68	70	71	67	55	50	58	79	81	78	78	90	105	114	121	122	118	114	120	124	99	78	72	67
	LQ	56	56	54	53	44	40	43	65	70	66	67	72	86	94	96	99	96	97	90	85	78	59	55	55
h'F2	MED								239	251	E 264	316	360	348	326	327	319	304	283	264					
	CNT								21	23	20	17	25	27	30	30	29	31	29	29	3				
	UQ								253	265	284	386	381	366	351	357	338	315	303	285					
	LQ								227	230	253	273	341	332	311	300	298	291	271	252					
h'F	MED	311	U 298	270	249	269	268	253	228	217	U 216	U 211	U 205	E 214	E 230	U 219	E 220	U 222	228	242	238	230	E 248	287	313
	CNT	31	31	31	30	31	28	30	26	25	24	26	21	19	22	15	20	22	18	17	27	30	30	29	29
	UQ	339	319	280	264	286	298	268	239	222	223	248	221	235	260	258	268	240	237	252	250	258	278	314	338
	LQ	283	279	256	230	238	244	247	220	208	198	193	186	200	212	208	214	219	222	232	228	207	213	257	299
M(3000)F2	MED	285	290	310	310	310	310	320	350	345	330	300	280	280	290	290	290	300	310	320	330	325	300	280	270
	CNT	21	22	24	22	26	21	29	31	31	29	28	30	29	30	29	27	29	30	31	29	30	26	24	23
	UQ	290	300	310	330	330	330	340	360	365	350	320	290	290	300	300	305	310	320	330	340	340	320	295	280
	LQ	270	280	300	300	290	290	300	340	335	315	290	265	265	280	275	280	290	295	305	310	310	290	270	270
foF1	MED												515	515	495	500	490								
	CNT								1		1	3	12	12	12	8	8	3	1						
foE	MED																								
	CNT									2	1	2	4	1	1	2	1	3							
h'E	MED								U 116	108	108	109	U 109	U 108	108	108	110	108	112	U 120					
	CNT								8	20	22	19	19	16	12	12	8	10	6	6					
foEs	MED	29	34	28	24	28	25	27	30	40	55	57	60	60	57	57	50	43	47	41	41	41	36	29	31
	CNT	27	31	31	31	31	31	31	31	31	310	31	31	31	31	31	31	31	31	31	31	31	30	31	28

SWEEP 2.0 MC TO 25.0 MC IN 27 SECONDS. AUGUST, 1961

TABLE 41

SAO PAULO, BRAZIL (23.5S, 46.5W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	63	60	54	50	36	30	30	58	70	74	88	100	106	106	108	113	115	115	108	82	68	70	68	62
	CNT	23	21	23	26	25	22	21	24	23	22	23	24	25	21	24	23	24	25	25	18	21	24	24	20
	UQ	84	69	65	57	42	35	33	61	74	82	100	110	112	114	118	123	128	132	115	94	88	90	90	70
	LQ	56	50	42	38	28	25	25	55	66	69	79	94	94	100	104	105	108	110	88	66	57	58	56	51
h'F2	MED										U 285	280	290	300	300	290	300	270							
	CNT									1	9	18	22	21	17	16	17	15	1						
h'F	MED	230	220	220	220	210	250	255	235	230	215	200	200	200	190	200	190	215	235	215	205	210	220	220	220
	CNT	24	23	20	19	12	10	9	23	20	16	13	15	14	11	12	10	14	23	23	20	21	23	25	23
M(3000)F2	MED	325	335	330	350	320	300	295	340	340	330	310	320	310	305	300	300	310	330	340	330	320	320	330	320
	CNT	22	20	22	25	25	22	21	22	20	20	21	22	24	21	22	23	23	24	20	14	18	20	21	17
foF1	MED																								
	CNT												1	2	2	1	1								
foE	MED													U 350	U 340	U 330									
	CNT								210	280	310	330	360	5	5	6	325 10	300							
									19	13	13	11	7					11	2						
h'E	MED								121	100	109	105	107	109	107	107	109	111	U 118						
	CNT								11	24	18	17	20	19	18	17	13	12	6						
foEs	MED	U 22	U 32	U 24	U 24	U 33	U 36											U 31	U 31	U 31	U 22	U 23	U 23	U 23	U 23
	CNT	6	5	7	7	7	6	3	23	21	210	21	23	22	22	23	23	24	19	16	10	7	8	5	8

SWEEP 1.0 MC TO 25.0 MC. AUGUST, 1961

TABLE 42

TRELEW, ARGENTINA (43.2S, 65.3W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	30	31	32	34	34	32	U 30	40	D 60	D 78	U 74	O 74	D 81	77	D 80	U 76	U 74	D 68	D 44	O 41	35	34	29	29
	CNT	11	14	15	13	11	9	7	10	3	3	2	5	5	10	9	7	6	12	11	9	13	13	15	13
	UQ																								
	LQ																								
h'F2	MED										U 230	230	U 240	250	255	250	240	235	U 230						
	CNT										4	6	3	5	9	10	11	6	4						
h'F	MED	325	320	300	300	260	230	275	235	220	215	225	215	U 215	220	205	210	225	220	205	235	240	240	275	310
	CNT	11	13	15	14	11	9	9	12	10	7	8	6	3	9	6	9	11	11	11	10	7	11	9	11
M(3000)F2	MED	265	260	265	275	295	310	295	320	J 365	U 350	J 350	U 350	U 315	U 330	U 350	J 345	J 365			U' 315	315	310	275	270
	CNT	9	10	12	10	10	7	7	6	1	1	1	2	3	6	4	4	4			4	7	7	12	11
foF1	MED											U 360			U 480	U 370	U 240	U 300							
	CNT											1			1	1	1	1							
foE	MED									U 235					U 340			U 260							
	CNT									2					1			1							
h'E	MED								U 165	117	101	101	101	101	101	103	101	105	115						
	CNT								2	8	8	10	8	13	14	11	13	11	5						
foEs	MED																								
	CNT																								

SWEEP 1.3 MC TO 18.0 MC IN 30 SECONDS. AUGUST, 1961

TABLE 43

JULIUSRUH/RUGEN, GERMANY (54.6N, 13.4E) 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	51	46	44	40	40	45	47	52	53	57	61	62	61	61	59	59	58	58	61	62	62	62	61	54
	CNT	28	27	25	30	30	29	30	29	28	26	27	28	27	25	30	30	31	29	29	30	30	29	25	26
	UQ																								
	LQ																								
h'F2	MED				410	U 360	395	480	400	420	395	360	350	360	360	360	360	360	340	330	310				
	CNT				1	2	12	17	22	28	26	27	24	25	25	30	26	26	22	13	3				
h'F	MED	300	280	285	290	280	260	240	240	235	220	220	225	220	225	220	230	225	230	250	275	270	260	250	285
	CNT	29	29	29	30	28	29	28	28	22	21	16	20	21	20	23	24	24	27	17	24	27	27	27	28
M(3000)F2	MED	275	280	270	280	280	290	280	300	285	280	285	295	290	295	290	290	295	300	300	300	300	290	295	280
	CNT	26	23	25	26	28	26	29	26	27	26	27	25	25	25	30	28	31	29	29	30	29	27	25	26
foF1	MED					U 280	340	380	410	440	450	460	470	480	480	480	460	450	430	390					
	CNT					1	10	15	22	25	26	25	21	26	24	26	22	18	14	3					
foE	MED					U 150	U 195	240	290	300	320	335	340	U 340	345	U 340	U 335	320	300	260	220				
	CNT					6	9	19	6	12	18	14	7	6	4	2	11	12	16	13	11				
h'E	MED																								
	CNT																								
foEs	MED	21	18	13	14	18	23	28	35	37	38	41	38	38	38	37	36	S	32	39	35	30	24	26	31
	CNT	9	10	17	23	27	29	29	28	29	270	27	27	26	25	25	23	25	26	26	26	25	14	10	7

SWEEP 0.5 MC TO 20.0 MC IN 25 SECONDS. JULY, 1961

TABLE 44

LINDAU/MARZ, GERMANY (51.6N, 10.1E) 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	548	505	463	428	433	434	48	51	535	585	615	651	63	612	603	607	595	596	616	645	66	667	638	584
	CNT	22	25	25	24	22	28	29	28	26	27	29	28	27	30	30	29	29	29	28	28	28	29	28	25
	UQ																								
	LQ																								
h'F2	MED					417	501	383	376	430	380	362	350	349	360	360	350	348	335	312	299				
	CNT					1	6	17	22	20	24	26	24	23	23	28	29	25	16	11	2				
h'F	MED	283	282	281	283	297	263	245	240	222	231	222	222	220	218	220	220	228	226	240	250	264	255	261	277
	CNT	26	27	26	24	25	26	25	20	14	13	17	21	19	20	25	22	25	19	15	11	21	23	26	26
M(3000)F2	MED	269	272	268	268	273	279	293	296	286	283	287	294	291	291	290	289	291	291	297	297	298	288	290	273
	CNT	20	21	22	21	20	28	28	25	25	26	29	27	27	30	29	29	28	29	28	28	27	27	23	25
foF1	MED					200	306	360	409	430	443	457	465	475	477	470	470	455	435	410	358				
	CNT					1	6	17	22	20	24	26	25	22	23	28	29	26	16	11	2				
foE	MED				E	E																	E		
	CNT				2	20	180 5	230 19	267 26	292 22	313 26	327 23	336 20	342 13	341 11	340 11	335 18	319 21	297 22	264 25	225 16	177 6	12		
h'E	MED				E	E	F															E	E		
	CNT				2	27	13	111 12	107 20	103 22	103 28	103 29	102 28	102 26	103 22	102 22	105 25	106 23	106 23	111 19	115 16	22	20		
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 4 MINUTES. JULY, 1961

TABLE 46

PARIS, FRANCE (48.1N, 2.3E) TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 58	U 52	48	45	42	41	45	50	53	57	62	62	63	62	62	62	61	60	62	64	64	61	67	60
	CNT	19	22	14	17	26	28	23	19	21	19	21	17	17	20	24	23	23	25	23	24	18	11	13	15
	UD																								
	LQ																								
h'F2	MED						335	358	345	362	345	345	338	342	358	350	350	338	340	315	300	260			
	CNT						5	16	16	16	18	24	20	18	18	18	27	24	19	21	17	4			
	UD																								
	LQ																								
h'F	MED	290	290	295	280	290	295	255	230	232	225	222	218	200	215	220	230	220	232	240	240	260	250	250	265
	CNT	28	26	26	26	26	28	25	24	18	14	14	17	13	18	17	20	17	16	15	13	25	26	25	29
	UD																								
	LQ																								
M(3000)F2	MED	278	282	278	280	290	290	290	290	U	285	300	310	308	300	298	300	305	298	305	305	315	320	305	295
	CNT	14	16	12	15	25	27	23	18	18	15	21	15	16	18	18	22	24	20	22	22	18	9	11	12
	UD																								
	LQ																								
foF1	MED						U 240	340	380	420	440	450	470	470	480	480	470	450	440	440	U 400				
	CNT						2	8	13	17	17	22	18	16	22	20	24	16	13	6	2				
foE	MED	E	E	E	E	E	E																E		E
	CNT	1	3	3	4	9	18	14	26	20	21	14	15	11	11	15	5	15	18	23	26	15	5		1
h'E	MED	E	E	E	E	E	E															E	E		E
	CNT	1	3	3	4	9	20	15	14	26	24	27	24	20	22	19	23	24	26	25	23	5	5		1
foEs	MED	35	30	28	23	24	27	32	30	35	37	42	40	45	44	45	41	44	44	43	50	39	47	35	32
	CNT	15	17	25	21	23	23	23	28	28	250	36	26	24	24	21	20	21	23	27	27	26	25	21	20

SWEEP 1.4 MC TO 17.0 MC. JULY, 1961

TABLE 47

DAKAR, SENEGAL (14.8N, 17.4W) TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	44	44	42	48	U 47	48	49	68	70	74	80	90	96	107	113	116	123	119	113	102	80	U 58	50	47
	CNT	9	8	9	5	4	7	29	30	30	27	27	29	28	40	30	30	31	31	31	29	24	24	19	12
	UD																								
	LQ																								
h'F2	MED								440	360	330	360	380	400	372	398	365	328	295	U 220					
	CNT								6	5	7	11	15	17	18	16	14	20	4	1					
	UD																								
	LQ																								
h'F	MED	352	330	345	330	322	278	245	225	220	212	225	220	205	202	200	205	215	230	250	250	304	350	370	365
	CNT	26	23	23	22	23	20	29	23	26	24	23	28	24	24	23	23	22	24	27	29	31	29	29	29
	UD																								
	LQ																								
M(3000)F2	MED	U 250	268	280	U 265	275	302	325	340	320	295	260	250	255	252	260	260	280	288	280	U 300	270	U 250	245	255
	CNT	3	5	6	3	6	8	27	28	30	28	29	29	26	30	27	29	29	24	23	19	9	15	13	9
	UD																								
	LQ																								
foF1	MED								U 360	U 440	460	480	500	500	500	U 470	U 480	U 480							
	CNT								1	3	5	6	13	16	20	23	12	2							
foE	MED						F	E													E	E	E		
	CNT						1	7	17	19	18	14	20	18	21	22	23	23	21	14	14	13	4		
h'E	MED						E	E	110	105	100	100	100	100	100	100	100	105	105	110	E	E	E		
	CNT						1	11	17	19	18	15	18	20	23	24	21	21	19	7	17	13	4		
foEs	MED	31	43	31	31	31	42	40	48	67	70	66	65	46	46	46	47	40	46	45	43	31	31	31	42
	CNT	31	31	30	29	31	31	30	29	30	290	28	28	28	29	30	29	29	29	30	24	30	30	31	30

SWEEP 1.2 MC TO 17.0 MC. JULY, 1961

TABLE 48

RARUTONGA, COOK IS. (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	39	36	37	34	29	29	36	65	77	87	81	76	71	85	83	86	80	75	69	52	43	43	41	39
	CNT	24	27	27	29	28	30	29	30	31	31	31	31	31	31	30	28	27	25	27	29	25	30	28	29
	UD																								
	LQ																								
h'F2	MED					400	490			250	250	250	250	270	270	260	460	250							
	CNT					1	1			7	26	31	31	27	30	24	18	7							
	UQ																								
	LQ																								
h'F	MED	270	260	250	230	250	260	250	230	220	210	200	200	200	200	230	240	240	230	210	230	250	250	260	260
	CNT	29	30	30	30	30	30	30	30	31	31	31	31	31	30	31	31	31	31	31	31	31	30	30	29
	UQ																								
	LD																								
M(3000)F2	MED	295	295	335	345	310	300	320	360	355	360	360	360	330	340	330	340	345	340	330	315	300	300	295	290
	CNT	24	27	27	29	28	30	29	30	31	31	31	31	31	31	30	28	27	25	27	29	25	30	28	29
	UQ																								
	LQ																								
foF1	MED						120				450	U 450	460	U 460	470	430	470								
	CNT						1				2	15	24	11	19	6	1								
foE	MED	E	E	E	E	E	E													E	E	E	E	E	E
	CNT	4	5	7	4	6	14	100 25	200 28	270 27	300 23	330 22	330 21	340 19	330 19	310 17	300 19	250 18	170 5	2	4	7	4	4	3
h'E	MED	E	E	E	E	E	E	E												E	E	E	E	E	E
	CNT	4	5	7	4	6	14	150 25	110 30	100 31	100 31	100 31	100 31	100 31	100 31	100 31	100 28	105 26	120 11	2	6	7	4	4	5
foEs	MED	E	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J
	CNT	29	21 30	18 30	25 30	27 30	33 30	26 30	35 30	36 41	35 310	42 31	42 31	39 31	40 31	40 31	40 31	36 31	35 31	32 31	29 31	25 31	23 30	24 30	13 30

SWEEP JULY, 1961

TABLE 49

SAO PAULO, BRAZIL (23.5S, 46.5W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	58	56	53	51	41	33	U 34	51	72	82	92	U 100	U 104	U 105	U 102	U 106	104	U 101	U 90	U 80	U 70	U 70	U 70	U 68
	CNT	19	20	20	19	19	17	18	21	21	22	22	18	20	21	20	18	19	21	18	18	18	19	19	21
	UD	71	65	70	67	48	44	39	56	74	88	104	113	114	114	113	120	115	109	105	89	87	90	93	86
	LD	54	48	44	40	33	28	29	46	64	64	86	91	90	89	92	95	90	90	80	68	63	64	58	60
h'F2	MED										250	260	250	250	255	270	275	240							
	CNT										15	22	19	18	17	17	15	11							
	UQ																								
	LQ																								
h'F	MED	220	220	230	220	210	230	U 250	240	230	215	210	U 200	U 190	U 190			U 230	220	200	195	220	230	225	220
	CNT	22	20	23	23	22	11	8	22	18	11	13	9	7	6	4	1	8	21	17	18	18	18	21	21
	UQ																								
	LQ																								
M(3000)F2	MED	335	330	330	350	330	310	U 305	335	350	335	340	340	340	320	U 320	U 310	340	340	U 360	U 340	U 310	U 310	U 325	U 335
	CNT	17	19	17	19	19	16	15	21	17	22	20	14	17	20	17	16	14	13	18	15	16	16	15	20
	UQ																								
	LQ																								
foF1	MED												1	2	1										
	CNT																								
foE	MED										U 295	U 320					U 305								
	CNT								4	4	10	5	3	2	2	4	6	3							
h'E	MED									113	109	111	109	109	115	113									
	CNT							1	1	7	13	17	13	10	10	5	2	1	1						
foEs	MED					U 42		U 30	U 23							U 41	U 39	U 39	U 32	U 39	U 38	U 43		U 32	U 44
	CNT	2	4	2	4	5	4	6	7	10	180	18	15	15	16	13	18	13	12	9	9	6	4	7	5

SWEEP 1.0 MC TO 25.0 MC. JULY, 1961

TABLE 49

TRELEW, ARGENTINA (43.25, 65.3W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	29	29	21	30	29	29	U 25	24	O 46	O 45	D 48	D 68	O 80	U 86	O 80	U 86	U 70	U 62	U 36	44	44	35	30	27
	CNT	16	16	17	15	11	10	8	13	8	15	10	8	5	2	4	2	2	3	6	10	10	15	12	15
	UQ																								
	LQ																								
h'F2	MED										U 225	U 225	U 230	230	U 220	240	220	U 220							
	CNT										4	2	3	8	4	10	8	3							
	UQ																								
	LQ																								
h'F	MED	U 315	U 310	300	310	U 280	260	230	255	220	230	215	U 215	U 215	U 200	190	210	210	215	210	U 245	235	225	220	U 320
	CNT	13	13	14	13	12	11	12	8	14	13	6	6	3	3	5	7	10	14	7	10	13	14	6	8
	UQ																								
	LQ																								
M(3000)F2	MED	270	270	270	280	285	310	300	285	U 345				U 360	U 325	J 350	U 330	U 345	U 325	U 330	285	315	315	275	265
	CNT	16	15	16	12	9	9	7	12	3				2	1	1	1	1	2	3	5	5	9	10	14
	UQ																								
	LQ																								
fo F1	MED										U 270					U 340	U 270								
	CNT										1					2	1								
fo E	MED																	U 230	U 170						
	CNT																	1	1						
h'E	MED									U 163	U 115	111	107	U 105	U 109	103	U 101	U 101	U 95						
	CNT									2	3	5	6	3	3	5	4	3	1						
fo Es	MED																								
	CNT																								

SWEEP 1.3 MC TO 18.0 MC IN 30 SECONDS. JULY, 1961

TABLE 50

JULIUSRUH/RUGEN, GERMANY (54.6N, 13.4E) 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
fo F2	MED	58	55	51	49	50	53	56	60	61	64	64	64	64	64	62	63	61	62	65	66	68	70	70	63
	CNT	29	28	29	27	29	29	29	27	28	27	28	29	29	29	29	28	30	30	29	30	30	30	30	27
	UQ																								
	LQ																								
h'F2	MED				390	380	405	385	340	345	340	345	350	360	350	365	340	360	320	305	315				
	CNT				1	3	12	15	17	24	22	24	24	28	27	26	21	20	16	8	4				
	UQ																								
	LQ																								
h'F	MED	280	270	270	290	260	245	230	225	220	220	215	210	210	210	210	220	220	225	240	250	260	260	260	260
	CNT	27	28	27	26	27	22	21	17	14	9	9	8	10	15	18	18	16	14	10	10	21	24	26	27
	UQ																								
	LQ																								
M(3000)F2	MED	280	285	285	285	285	280	290	285	295	290	290	285	285	290	290	290	285	290	300	295	300	295	290	285
	CNT	27	27	26	26	28	29	28	27	28	27	27	27	29	29	27	28	30	29	29	30	30	30	30	26
	UQ																								
	LQ																								
fo F1	MED				160	270	350	400	420	440	450	470	480	480	470	470	460	450	430	390					
	CNT				1	3	11	16	19	26	22	20	18	25	25	27	22	17	11	3					
fo E	MED			E		U 130	215	U 255	U 290	305	325	330	340	U 340	340	340	330	315	295	265	215				
	CNT			1	105 4	9	9	7	6	9	8	3	3	2	3	2	10	11	13	14	8				
h'E	MED																								
	CNT																								
fo Es	MED	30	17	13	15	20	26	33	35	37	41	43	46	43	40	37	39	40	39	40	33	26	27	29	21
	CNT	8	20	26	25	26	28	26	25	29	290	29	29	29	26	24	27	25	28	27	29	27	17	14	10

SWEEP 0.5 MC TO 20.0 MC IN 25 SECONDS. JUNE, 1961

TABLE 51

LINDAU/HARZ, GERMANY (51.6N, 10.1E) 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
fo F2	MED	613	575	535	495	485	511	566	60	609	655	645	648	661	64	623	63	621	635	652	693	703	697	69	66
	CNT	26	25	25	24	25	26	30	29	30	27	28	28	27	28	28	29	25	29	29	29	28	30	30	29
	UQ																								
	LQ																								
h'F2	MED						362	337	333	352	321	330	361	356	340	352	346	342	330	310	301				
	CNT						8	18	25	26	26	26	23	24	26	28	24	21	21	13	6				
	UQ																								
	LQ																								
h'F	MED	266	271	270	270	271	248	241	230	221	218	215	220	213	213	219	218	222	233	242	254	265	256	255	260
	CNT	28	28	30	27	28	27	26	22	20	17	17	17	19	21	24	22	19	17	14	13	20	25	29	27
	UQ																								
	LQ																								
M(3000)F2	MED	286	277	280	282	285	284	285	290	295	300	298	288	294	295	290	295	290	292	295	297	299	294	290	282
	CNT	26	24	24	24	25	26	29	29	28	27	28	27	27	28	28	29	25	28	29	29	28	29	30	28
	UQ																								
	LQ																								
fo F1	MED						325	380	420	440	450	468	475	475	474	470	461	455	440	400	350				
	CNT						8	18	25	26	26	26	23	25	26	27	24	21	21	13	6				
fo E	MED				E	E				297	314	332	338	332	345	336	332	320	296	265	221	173	E		
	CNT				4	13	180 13	236 20	270 26	24	26	25	23	16	9	12	14	19	18	26	20	3	18		
h'E	MED				E	E	E			103	102	101	101	100	102	103	102	103	105	109	111	E	E		
	CNT				4	28	6	108 21	106 25	25	25	25	27	26	24	26	24	25	23	29	28	17	24		
fo Es	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 4 MINUTES. JUNE, 1961

TABLE 52

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
fo F2	MED	63	59	U 55	U 51	48	46	51	60	62	64	62	65	66	66	64	63	62	63	64	67	67	U 67	64	67
	CNT	15	17	16	15	18	19	21	17	18	13	18	13	14	14	13	13	20	14	18	17	9	9	7	7
	UQ																								
	LQ																								
h'F2	MED						305	325	298	300	335	328	325	310	345	350	345	345	318	300	295	270			
	CNT						7	13	16	21	17	18	15	14	15	14	19	15	18	22	15	7			
	UQ																								
	LQ																								
h'F	MED	260	260	258	278	262	250	245	232	230	220	208	218	200	200	200	220	225	240	230	248	250	250	492	255
	CNT	24	24	26	24	22	25	22	14	15	12	14	10	12	17	15	13	12	13	17	14	13	19	18	23
	UQ																								
	LQ																								
M(3000)F2	MED	290	290	290	292	285	290	300	305	320	298	310	320	322	312	295	305	300	310	305	315	320	U 310	305	288
	CNT	11	12	13	14	14	16	19	16	19	12	16	13	12	10	11	17	14	18	17	16	7	4	5	6
	UQ																								
	LQ																								
fo F1	MED						U 260	U 320	400	420	450	450	460	480	470	460	460	470	450	420	U 380				
	CNT						1	4	15	18	17	17	12	15	15	14	14	11	11	12	3				
fo E	MED		E	E	E	E	E		200	250	280	310	330	330	340	338	332	328	320	300	280	240	190	E	E
	CNT		2	3	6	16	20		26	26	27	24	21	18	15	16	16	14	18	23	25	27	18	5	2
h'E	MED		E	E	E	E	E		108	105	100	100	100	100	100	100	100	100	100	100	105		E	E	E
	CNT		2	3	6	16	20		20	25	26	27	28	27	25	26	22	26	28	29	24		8	7	2
fo Es	MED	32	24	22	24	22	28	30	35	35	45	42	46	45	40	42	42	50	41	38	47	45	40	37	35
	CNT	14	16	20	20	20	22	26	27	27	260	26	27	27	24	28	26	25	27	27	29	23	21	19	16

SWEEP 1.4 MC TO 17.0 MC. JUNE, 1961

TABLE 53

ATHENS, GREECE (38.0N, 23.6E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	66	66	63	U 61	55	52	58	69	74	73	73	72	74	78	82	84	82	81	80	82	84	80	77	U 71
	CNT	19	19	18	17	18	18	18	19	22	18	15	16	18	22	23	20	20	22	16	18	19	20	19	19
	UQ	76	70	66	68	61	56	66	77	80	79	81	82	88	86	89	92	89	86	84	87	90	86	84	76
	LQ	63	58	57	55	50	47	53	62	66	65	64	67	67	74	74	78	77	74	75	79	72	72	67	64
h'F2	MED								320	280	270	290	310	330	320	320	300	300	275	295	E 320				
	CNT								4	7	5	5	8	11	13	19	14	13	11	3	1				
	UQ								330	295	310	320	340	360	360	360	310	310	290	300					
	LQ								300	250	260	280	310	310	310	300	285	280	265	290					
h'F	MED	E 280	E 260	E 255	E 255	U 230	240	230	230	E 250	E 270	E 270	270	E 290	E 280	U 210	U 230	U 230	240	240	U 240	E 245	E 250	E 250	E 265
	CNT	19	19	18	17	18	18	18	19	21	18	15	16	18	22	23	20	21	22	16	18	19	20	19	19
	UQ	290	310	265	280	290	280	245	265	270	295	355	320	320	330	315	310	280	280	290	260	265	260	275	280
	LQ	240	250	250	235	230	235	225	215	230	250	220	200	210	210	210	210	215	235	245	235	230	230	240	240
M(3000)F2	MED	281	292	296	300	301	286	300	311	324	320	305	298	299	292	291	296	308	310	307	304	307	301	295	292
	CNT	19	18	18	17	17	18	18	19	22	15	15	16	17	22	23	20	20	22	15	18	19	20	19	19
	UQ	299	300	302	312	318	311	312	323	338	325	321	313	307	300	301	308	310	314	310	319	315	313	306	301
	LQ	275	280	288	292	290	280	288	303	310	309	293	286	285	282	285	294	299	299	289	295	296	289	285	280
foF1	MED								428	445	465	485	520	500	495	500	478	468	445	408					
	CNT								4	7	5	5	7	11	12	18	14	14	11	2					
foE	MED						127	210	260	299	330	345	355	360	362	360	350	328	300	255	190				
	CNT						3	17	19	22	21	18	15	19	18	19	22	22	22	18	14				
h'E	MED						127	109	101	99	99	99	99	101	101	103	103	103	101	105	111				
	CNT						3	17	19	22	21	20	18	22	24	22	23	22	23	20	14				
foEs	MED	J 44	J 38	J 31	J 34	J 36	J 26	31	37	J 50	J 63	J 61	58	66	55	J 48	46	44	45	J 54	J 51	J 40	J 51	J 40	J 37
	CNT	19	19	19	19	19	19	18	19	22	210	20	18	22	21	22	22	23	23	20	21	20	20	20	19

SWEEP 1.0 MC TO 20.0 MC IN 30 SECONDS. JUNE, 1961

TABLE 54

DAKAR, SENEGAL (14.8N, 17.4W) TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	41	34	30	U 28	U 26	U 33	53	69	69	73	78	88	95	102	110	114	118	116	112	92	67	53	47	46
	CNT	10	8	5	3	3	6	28	29	29	29	27	29	29	29	30	30	30	30	30	26	27	25	25	17
	UQ																								
	LQ																								
h'F2	MED								U 235	250	U 300	328	370	372	378	365	345	330	U 300	U 252					
	CNT								2	6	3	10	10	18	14	21	12	10	3	2					
	UQ																								
	LQ																								
h'F	MED	340	335	342	322	295	272	245	230	215	200	205	200	202	200	200	210	220	220	245	255	290	350	360	350
	CNT	22	18	15	17	16	16	29	27	26	25	21	24	19	19	26	25	24	24	27	29	29	27	29	26
	UQ																								
	LQ																								
M(3000)F2	MED	270	270	U 262	U 302	U 320	U 285	340	345	325	300	272	260	260	260	265	265	272	280	295	292	270	260	250	255
	CNT	10	7	4	2	2	3	23	26	29	29	26	29	28	29	30	29	28	24	22	18	13	19	19	13
	UQ																								
	LQ																								
foF1	MED											U 490	490	U 500	490	U 490	U 500	U 430							
	CNT											8	11	15	17	18	7	1							
foE	MED						E	U 165	250	305	330	355	360	368	360	355	340	310	275	200	E	E			
	CNT						1	4	9	13	13	15	21	20	21	23	25	25	22	20	13	4			
h'E	MED						E	E	105	100	100	100	100	100	100	100	100	100	105	115	E	E			
	CNT						1	4	6	11	12	13	17	20	23	23	24	18	18	16	20	4			
foEs	MED	31	40	42	40	45	45	44	57	67	67	65	65	55	60	52	46	54	49	45	33	36	31	31	31
	CNT	29	28	27	28	29	29	29	29	29	290	29	29	29	29	30	30	30	29	29	26	24	23	25	25

SWEEP 1.2 MC TO 17.0 MC. JUNE, 1961

TABLE 55

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 50		U 46		U 61	44	57	72	80	80	82	80	80	81	84	90	U 87	O 92			O 83	U 67	67	61
	CNT	4		2		2	9	16	15	23	26	28	25	25	20	16	16	4	1			1	3	8	8
	UQ																								
	LQ																								
h'F2	MED									U 278	310	355	362	360	350	350	358	310							
	CNT									4	7	13	18	19	17	17	16	7							
	UQ																								
	LQ																								
h'F	MED	318	310	312	300	240	220	240	220	210	210	200	200	205	200	200	205	210	225	250	260	280	310	310	310
	CNT	12	8	6	9	11	17	29	28	28	22	22	21	21	22	18	18	19	20	23	28	21	19	19	15
	UQ																								
	LQ																								
M(3000)F2	MED	U 285		U 285		U 335	360	332	320	310	280	255	245	250	242	255	255	U 260					U 270	290	265
	CNT	4		1		2	9	14	11	18	22	26	21	21	18	11	13	3					3	5	6
	UQ																								
	LQ																								
foF1	MED											490	490	490	480	470	U 470	U 550							
	CNT											6	9	14	12	9	4	1							
foE	MED						E	E	250	295	330	350	360	370	360	350	330	310	275	185	E	E			
	CNT						2	20	18	22	19	15	19	17	21	21	15	10	7	5	3	1			
h'E	MED						E	E	110	105	105	105	U 105	U 105	U 105	U 110	110	110	112	E	E	E			
	CNT						2	26	16	17	10	9	2	1	3	3	12	9	8	2	3	1			
foEs	MED	18	18	16	17	18	18	22	42	44	60	65	65	65	62	61	60	50	50	40	28	18	18	19	18
	CNT	29	29	29	29	30	30	29	29	29	290	28	29	30	30	30	30	30	30	30	30	29	29	29	28

SWEEP 1.25 MC TO 20.0 MC. JUNE, 1961

TABLE 56

IBADAN, NIGERIA (7.4N, 3.9E) 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	62	55	47	43	U 37	U 29	U 58	83	97	100	100	94	92	89	91	97	U 100	O 100	O 101	O 90	U 87	U 80	U 80	U 63
	CNT	26	29	28	28	28	26	30	28	29	29	30	30	29	30	29	29	29	30	30	29	29	25	25	25
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	295	280	270	255	260	250	250	230	225	210	205	200	200	200	195	200	210	245	255	295	295	305	300	300
	CNT	29	29	29	29	28	24	30	21	23	27	26	23	24	25	24	21	18	25	24	28	28	25	28	28
	UQ																								
	LQ																								
M(3000)F2	MED	U 320	290	U 300	U 300	U 300	U 305	U 320	310	300	280	260	255	250	250	255	260	U 265	U 260	U 270	U 255	U 270	U 280	U 275	U 300
	CNT	3	3	5	7	13	18	28	26	21	28	30	30	28	30	29	29	20	11	12	10	7	7	6	4
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							185	270	U 320	350	U 360	U 370	U 380	U 370	U 350	330	U 300	240	U 170					
	CNT							24	22	23	27	24	22	22	25	25	21	23	26	18					
h'E	MED																								
	CNT																								
foEs	MED	20	18	E	18	E	38	40	55	58	86	90	90	90	90	85	63	59	51	30	18	E	14	20	E
	CNT	29	29	29	29	28	29	30	28	29	290	30	30	29	30	29	29	29	30	30	29	29	26	28	29

SWEEP JUNE, 1961

TABLE 57

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	52	42	42	38	33	29	35	66	89	100	98	97	94	90	92	92	100	96	98	85	72	67	60	55
	CNT	18	24	22	22	23	22	23	26	28	27	29	30	29	29	28	28	28	28	28	25	23	23	25	24
	UQ																								
	LQ																								
h'F2	MED								245	255	255	252	255	250	275	270	270	255	U 255						
	CNT								10	25	29	30	29	28	28	26	23	17	3						
	UQ																								
	LQ																								
h'F	MED	240	240	255	240	245	250	275	235	220	212	200	205	200	200	200	220	245	240	225	205	220	245	240	240
	CNT	29	30	29	28	28	29	30	29	30	30	30	29	27	24	25	21	25	29	30	30	29	27	30	28
	UQ																								
	LQ																								
M(3000)F2	MED	295	290	300	315	310	310	295	330	338	340	340	340	330	325	315	310	315	320	330	330	310	305	310	300
	CNT	17	21	22	22	19	21	23	26	28	27	28	29	29	29	27	28	27	28	27	25	23	21	25	22
	UQ																								
	LQ																								
foF1	MED										U 450	450	460	460	460	U 460									
	CNT										5	7	16	20	12	3									
foE	MED	E	E	E	E	E	E	E	190	265	300	325	340	345	332	325	300	260	200	E	E	E	E	E	E
	CNT	5	7	7	8	7	16	29	25	29	28	25	28	22	16	14	16	19	10	4	8	5	8	4	2
h'E	MED	E	E	E	E	E	E	E	125	110	105	100	100	100	100	105	105	110	U 125	E	E	E	E	E	E
	CNT	5	7	7	8	7	16	29	18	26	30	28	27	26	21	21	10	9	4	28	8	5	8	4	2
foEs	MED	28	24	23	24	24	23	26	31	31	31	31	35	38	40	38	39	39	37	32	31	31	31	27	26
	CNT	26	22	25	24	24	23	22	28	27	300	30	30	28	28	30	30	26	30	30	27	30	29	30	25

SWEEP 1.2 MC TO 17.0 MC. JUNE, 1961

TABLE 58

TANANARIVE, MALAGASY REPUBLIC (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	24	22	22	22	21	22	30	60	70	75	74	76	72	70	67	68	63	64	49	33	28	30	30	27
	CNT	23	26	24	25	30	29	30	28	29	22	25	22	28	27	25	27	29	28	27	27	27	28	27	21
	UQ																								
	LQ																								
h'F2	MED					U 350	U 385		U 245	250	260	268	275	280	285	270	280	240	U 250						
	CNT					1	1		4	11	29	28	25	27	23	16	13	5	1						
	UQ																								
	LQ																								
h'F	MED	245	260	E 265	265	270	F 275	255	240	240	232	225	230	220	225	240	238	240	240	230	235	245	250	260	240
	CNT	27	29	29	28	29	28	29	30	30	28	23	20	18	15	19	22	25	27	24	23	17	24	27	27
	UQ																								
	LQ																								
M(3000)F2	MED	332	320	310	315	310	310	315	345	340	342	U 335	332	335	320	330	325	325	335	335	330	310	310	325	330
	CNT	20	23	23	25	29	28	30	28	29	22	25	22	28	27	25	27	29	28	27	27	27	28	27	21
	UQ																								
	LQ																								
foF1	MED											U 440	450	460	U 430	U 520	U 430	U 530							
	CNT											2	5	9	3	2	1	1							
foE	MED	F	E	E	E	E	E	E	190	252	290	310	325	325	325	310	290	250	170	E	E	E	E	E	E
	CNT	4	6	9	16	24	26	30	27	30	29	25	23	22	20	29	29	26	14	5	4	4	3	1	4
h'E	MED	E	E	E	E	E	E	E	130	125	120	115	110	105	105	U 110	115	125	E	E	E	E	E	E	E
	CNT	4	6	9	16	24	26	30	6	22	20	19	15	8	7	4	7	10	8	5	4	4	3	1	4
foEs	MED	15	E	15	G	G	G	G	23	G	23	27	38	40	41	34	34	32	28	27	23	22	21	19	15
	CNT	25	29	30	29	30	30	30	6	10	270	28	29	29	27	29	29	30	30	27	24	25	18	13	25

SWEEP 1.25 MC TO 20.0 MC. JUNE, 1961

TABLE 59

RAROTONGA, COOK IS. (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	34	32	34	35	28	30	39	69	78	90	88	83	77	78	82	79	76	76	63	49	42	40	38	34
	CNT	27	27	28	27	25	27	30	28	29	29	30	30	29	30	29	29	27	27	25	28	30	30	28	28
	UQ																								
	LQ																								
h'F2	MED									250	250	250	250	260	270	260	260	250							
	CNT									4	22	30	28	28	28	27	14	1							
	UQ																								
	LQ																								
h'F	MED	260	250	250	240	250	250	250	230	210	200	200	210	200	200	220	220	240	230	210	210	250	250	250	250
	CNT	30	30	30	29	30	30	30	30	30	30	30	29	30	29	27	30	30	30	30	30	30	30	30	30
	UQ																								
	LQ																								
M(3000)F2	MED	300	300	320	340	305	300	320	355	350	355	355	350	345	340	335	335	340	340	345	325	300	300	305	300
	CNT	27	27	28	27	25	27	30	28	29	28	30	30	29	30	29	29	26	27	25	28	30	30	28	28
	UQ																								
	LQ																								
foF1	MED									320		450	460	450	450	430	U 400								
	CNT									1		14	13	9	12	3	1								
foE	MED	E	E			E	E		190	260	300	320	320	330	330	310	290	240	130		E	E	E		E
	CNT	2	4			5	14	21	26	22	23	19	20	20	17	15	18	15	4		3	3	5		3
h'E	MED	E	E		E	E	E	165	110	100	100	100	100	100	100	100	100	105	110		F	F	F		F
	CNT	2	4		1	6	14	23	29	30	30	30	30	29	30	30	28	23	9		3	4	4		2
foEs	MED	E	F	J	J 14	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J 33	J	J	J	J 13
	CNT	28	30	11 26	25	10 23	26 25	26 23	36 27	40 29	38 300	40 30	42 30	43 30	42 30	42 28	37 30	38 30	39 29	35 27	27	31 25	24 26	25 23	13 27

SWEEP JUNE, 1961

TABLE 60

JULIUSRUHE/RUGEN, GERMANY (54.6N, 13.4E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	45	46	44	40	39	44	50	55	60	62	63	65	65	64	64	64	64	66	64	67	66	65	61	55
	CNT	23	25	26	25	27	29	28	27	29	28	27	28	28	28	28	27	27	25	29	28	28	26	25	25
	UQ																								
	LQ																								
h'F2	MED					330	415	380	375	345	335	345	335	340	340	330	330	325	305	305	300				
	CNT					2	5	15	18	22	24	26	27	27	28	28	24	21	11	6	1				
	UQ																								
	LQ																								
h'F	MED	E 240	280	E 295	E 295	290	260	250	230	220	220	220	220	220	220	220	220	225	240	260	270	260	255	260	280
	CNT	29	24	25	24	29	26	25	27	27	23	20	20	20	19	18	22	19	19	21	20	29	28	29	29
	UQ																								
	LQ																								
M(3000)F2	MED	275	270	275	270	280	295	300	290	295	290	290	300	290	295	295	295	295	300	300	300	300	295	290	280
	CNT	21	21	22	24	24	26	26	29	25	25	27	27	28	28	28	27	27	26	28	28	28	25	25	22
	UQ																								
	LQ																								
foF1	MED					U 290	U 360	380	420	445	450	460	470	470	470	470	460	450	U 430	U 380					
	CNT					1	6	15	19	21	22	24	23	24	24	23	20	13	3	1					
foE	MED					U 120	190	260	275	300	325	340	345	345	350	340	325	305	280	245	200	175			
	CNT					6	14	14	16	23	19	20	15	13	11	15	18	19	15	23	16	1			
h'E	MED																								
	CNT																								
foEs	MED	21	17	12	12	17	24	27	31	34	37	33	38	40	40	39	34	35	33	30	30	27	22	30	23
	CNT	4	11	18	24	27	28	28	24	28	270	26	27	25	27	26	27	26	25	28	27	24	15	9	7

SWEEP 2.5 MC TO 25.0 MC IN 25 SECONDS. MAY, 1961

WARSAW, POLAND (52.2N, 21.0E) 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	50	48	43	41	43	51	54	55	60	63	66	68	67	64	63	64	66	68	67	68	U 70	U 66	U 60	54
	CNT	28	26	27	26	27	29	28	26	27	27	27	23	25	26	26	26	22	25	25	28	28	27	30	29
	UQ	53	51	48	45	47	54	60	64	70	70	71	70	70	70	69	69	68	70	72	73	72	69	62	58
	LQ	47	43	40	38	37	44	48	54	55	60	63	64	63	63	61	60	58	62	62	64	62	60	53	50
h'F2	MED					400	345	340	355	350	340	340	335	335	325	320	300	300	280	270	255				
	CNT					3	11	17	25	23	25	25	22	23	24	21	21	18	6	5	3				
	UQ						390	355	375	375	380	360	350	360	340	350	345	330	295	305					
	LQ						315	300	300	300	310	305	320	315	315	300	290	280	275	260					
h'F	MED	E 290	E 285	E 280	290	260	250	235	225	220	225	215	200	205	210	215	220	225	240	255	255	U 245	E 250	E 260	E 275
	CNT	20	18	20	19	22	24	22	24	20	17	17	15	18	17	16	17	12	15	15	25	22	22	22	22
	UQ	295	300	300	300	275	250	245	240	235	235	220	220	230	225	225	230	250	255	275	275	260	250	265	300
	LQ	270	270	275	280	255	240	225	220	210	215	205	200	200	205	210	205	225	240	250	245	245	250	250	255
M(3000)F2	MED	280	270	270	280	285	295	290	290	300	290	295	300	295	300	300	305	305	305	305	305	300	290	285	280
	CNT	25	23	23	21	26	26	24	25	23	20	25	23	23	22	26	26	18	21	22	20	17	16	19	23
	UQ	285	280	275	280	300	305	310	305	315	300	310	305	305	310	315	315	315	315	315	310	305	300	290	295
	LQ	265	270	265	275	275	275	280	280	275	285	280	285	285	290	290	290	295	295	300	295	290	280	280	270
foF1	MED					270	360	400	420	440	450	470	470	480	470	460	450	420	400						
	CNT					3	11	17	23	23	22	20	20	22	21	17	18	8	3						
foE	MED		E	E	E	145	205	250	290	300	315	320	330	330	325	320	305	290	260	210	U 150	E			
	CNT	2	7	6	14	18	19	21	22	23	22	16	13	11	14	15	15	18	22	18	10	11	2	1	1
h'E	MED						113	105	103	103	101	101	101	101	101	101	102	103	106	115					
	CNT					1	20	24	27	29	27	27	24	26	26	24	22	21	17	9	1				
foEs	MED	E 16	E	E		15	24	30	34	37	38	39	40	40	40	38	39	38	34	30	24	20	16	E 16	E 16
	CNT	29	27	27	25	21	28	29	29	29	270	27	24	26	27	26	25	24	26	26	30	28	28	30	29

SWEEP 1.0 MC TO 18.0 MC IN 20 SECONDS. MAY, 1961

LINDAU/HARZ, GERMANY (51.6N, 10.1E) 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	535	497	465	425	405	44	505	542	598	612	633	65	654	657	646	642	657	67	664	665	678	675	627	57
	CNT	28	28	28	26	27	29	29	30	29	30	30	29	30	27	29	29	28	30	29	30	30	30	30	29
	UQ																								
	LQ																								
h'F2	MED						408	341	337	352	340	333	335	325	338	330	319	324	311	294	282				
	CNT						4	14	22	24	25	28	24	28	24	27	26	19	20	3	1				
	UQ																								
	LQ																								
h'F	MED	280	283	283	280	290	254	245	240	227	220	220	221	222	220	225	222	228	228	245	260	253	244	251	268
	CNT	31	30	29	29	30	29	31	27	26	23	23	20	26	23	26	24	18	18	18	19	22	24	27	25
	UQ																								
	LQ																								
M(3000)F2	MED	275	274	270	275	279	285	290	286	291	294	298	301	298	294	298	302	299	304	303	303	304	295	284	280
	CNT	28	27	27	26	27	28	29	29	28	28	30	29	30	27	29	29	28	30	28	30	29	29	27	27
	UQ																								
	LQ																								
foF1	MED						310	365	404	430	445	460	467	475	475	470	460	445	430	395					
	CNT						4	14	22	24	26	27	24	26	23	27	26	18	18	3					
foE	MED					E		161	217	257	288	307	321	332	339	343	336	327	310	282	249	204	E	E	
	CNT					17		7	19	24	25	21	22	19	16	16	16	17	21	25	24	8	6	8	
h'E	MED					E	E		112	107	105	104	103	103	103	103	104	105	107	108	110	116			
	CNT					19	24		20	25	25	24	26	27	23	24	22	21	20	20	15	17			
foEs	MED																						E	E	
	CNT																						25	8	

SWEEP 1.0 MC TO 16.0 MC IN 4 MINUTES. MAY, 1961

TABLE 63

SLOUGH, ENGLAND (51.5N, 0.6W) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	54	48	45	43	38	44	48	54	57	60	62	62	62	62	63	62	64	65	66	68	70	66	60	57
	CNT	28	29	29	29	28	30	30	29	29	30	31	30	30	31	30	31	29	29	31	31	31	29	29	29
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	275	270	275	275	280	290	300	300	300	300	300	300	300	300	300	300	300	305	305	305	305	295	280	275
	CNT	28	27	28	26	26	29	29	26	26	29	30	29	28	31	30	31	29	29	29	27	26	27	26	25
	UQ																								
	LQ																								
foF1	MED							370	400	420	450	460	470	470	470	460	450	440	U 410						
	CNT							10	14	16	21	24	23	24	23	21	23	11	7						
foE	MED					140	195	240	280	310	320	340	350	350	350	345	330	310	280	240	190	170			
	CNT					16	25	27	27	26	24	25	21	19	20	19	27	25	28	26	17	3			
h'E	MED																								
	CNT																								
foEs	MED	E 10	11	10	12	14	21	26	30	34	36	37	39	41	37	38	36	36	36	29	25	16	E 16	E 16	E 16
	CNT	24	29	30	30	30	30	30	30	30	310	31	31	31	31	31	31	30	31	31	31	30	30	29	30

SWEEP MAY, 1961

TABLE 64

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	56	U 50	47	45	42	42	45	51	58	59	61	63	67	63	65	65	66	66	67	66	65	65	66	U 59
	CNT	20	21	24	21	24	27	26	25	22	21	21	21	25	25	27	28	24	24	23	21	15	12	15	20
	UQ																								
	LQ																								
h'F2	MED							345	322	335	315	325	325	322	320	320	305	300	300	280	285				
	CNT							7	12	19	25	23	19	22	24	23	26	27	21	16	10				
	UQ																								
	LQ																								
h'F	MED	272	275	290	285	275	275	240	222	210	205	200	200	200	205	200	210	220	220	230	242	250	240	250	250
	CNT	28	29	30	28	30	28	29	20	21	23	23	20	24	21	26	25	19	19	15	22	29	29	29	27
	UQ																								
	LQ																								
M(3000)F2	MED	285	U 290	280	285	290	295	298	305	305	310	315	305	305	300	305	310	310	320	310	318	310	310	300	288
	CNT	19	18	19	21	21	25	24	22	21	21	17	19	23	20	25	27	21	23	23	18	12	9	14	12
	UQ																								
	LQ																								
foF1	MED							U 350	380	420	440	450	470	470	480	470	460	450	U 440	U 410					
	CNT							4	7	19	21	21	21	17	18	17	17	19	4	3					
foE	MED		E	E	E	E	E		190	230	280	300	320	330	335	340	350	330	325	300	265	220	E	E	E
	CNT		1	1	1	5	17		23	30	29	25	27	22	22	23	17	21	23	27	29	27	4	5	1
h'E	MED		E	E	E	E	E		115	100	100	100	100	100	100	100	100	100	100	100	105	E	E	E
	CNT		1	1	1	5	22		15	30	31	29	29	28	29	29	30	30	30	27	30	25	8	6	1
foEs	MED	29	25	24	22	22	22	22	28	32	37	38	40	43	44	39	39	42	37	36	32	34	35	35	29
	CNT	13	15	17	18	13	16	24	28	30	270	27	26	27	27	26	28	27	30	30	29	21	19	17	13

SWEEP 1.4 MC TO 17.0 MC. MAY, 1961

TABLE 65

MACAU (22.2N, 113.6E) 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
fo F2	MED	78	80	68	60	58	47	52	61	75	80	85	91	101	104	102	101	100	100	92	92	85	87	78	69
	CNT	8	17	14	12	9	8	5	17	21	21	19	19	25	26	21	19	19	20	14	8	7	14	12	13
	UQ	88	89	90	68	67	53	58	66	80	85	90	100	107	115	112	112	111	108	100	103	91	90	92	90
	LQ	66	66	61	54	42	34	48	58	69	76	75	89	100	100	100	100	98	91	80	90	80	68	68	68
h'F2	MED											425					365								
	CNT											1					1								
	UQ																								
	LQ																								
h'F	MED	165	235	235	220	235	225	235	215	230	245	265	345	350	340	325	300	255	245	225	220	220	225	245	255
	CNT	18	21	17	16	17	19	14	22	24	24	20	19	26	27	25	21	21	26	25	14	12	19	20	21
	UQ																								
	LQ																								
M(3000)F2	MED	315	330	365	365	370	370	340	370	320	310	280	300	310	320	340	330	350	370	370	380	370	370	320	320
	CNT	8	17	14	12	9	8	5	17	21	21	19	19	25	26	21	19	19	20	17	8	7	14	12	13
	UQ																								
	LQ																								
fo F1	MED											640					530								
	CNT											1					1								
fo E	MED										330														
	CNT										1														
h'E	MED										85														
	CNT										1														
fo Es	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. MAY, 1961

TABLE 66

SINGAPORE, BRITISH MALAYA (1.3N, 103.8E) TIME 105.0E

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
fo F2	MED	79	76	58	42	36	26	46	77	95	105	114	113	109	108	106	109	112	116	119	118	116	112	96	88
	CNT	29	28	30	28	29	30	29	31	31	31	30	27	27	29	31	31	31	29	30	29	28	28	28	29
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	305	330	330	340	340	340	315	315	295	275	250	240	230	235	235	245	265	280	290	295	305	320	325	310
	CNT	29	28	30	28	28	28	28	31	31	31	30	27	27	29	31	31	31	29	30	29	28	28	28	27
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED					100		150	U 245	300	340	360	370	375	370	360	330	290	230			140			
	CNT					3		2	11	16	21	26	21	20	18	22	20	19	14			1			
h'E	MED																								
	CNT																								
fo Es	MED	J 25	J 25	26	23	22	19	16	31	33	36	E 36	E 37	E 38	E 37	E 36	E 33	30	28	24	J 23	J 25	J 28	J 30	J 27
	CNT	24	23	21	24	25	23	28	31	31	310	31	31	31	31	31	31	31	30	31	25	24	22	24	25

SWEEP MAY, 1961

TABLE 67

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	52	47	44	40	35	31	40	72	92	106	104	104	104	108	108	112	114	124	125	119	95	74	67	58
	CNT	22	22	24	23	23	26	28	26	28	28	30	30	30	31	29	31	30	28	31	27	24	24	24	17
	UQ																								
	LQ																								
h'F2	MED							U 340	240	252	250	255	255	265	260	270	270	255	U 245						
	CNT							1	11	22	31	31	29	31	31	28	21	16	3						
	UQ																								
	LQ																								
h'F	MED	255	255	255	238	235	255	272	240	220	215	205	200	205	200	202	220	240	245	230	220	215	232	230	240
	CNT	31	31	31	30	28	31	30	31	30	30	31	29	25	24	22	23	26	29	31	31	31	30	30	31
	UQ																								
	LQ																								
M(3000)F2	MED	295	305	300	320	295	310	305	340	340	340	340	330	325	325	310	310	310	315	325	325	310	305	315	305
	CNT	21	21	24	23	22	25	26	26	28	27	29	29	29	31	29	31	28	28	27	24	23	21	22	17
	UQ																								
	LQ																								
fo F1	MED										U 450	U 460	U 470	U 480	U 470	U 440	U 400								
	CNT										4	11	17	18	17	4	1								
fo E	MEQ	E	E	E	E	E	E	E												E	E	E	E	E	E
	CNT	8	5	7	6	7	12	28	210 28	270 29	310 29	330 28	342 26	350 25	340 22	322 20	300 16	260 21	180 12	10	17	8	10	6	6
h'E	MEQ	E	E	E	E	E	E	E												E	E	E	E	E	E
	CNT	8	5	7	6	7	12	29	120 25	105 21	105 22	100 22	100 21	100 25	100 25	105 19	105 11	110 7	122 8	29	18	8	10	6	6
fo Es	MED	26	U 24	22	U 24	24	24	28	31	31	31	31	37	37	37	40	40	36	39	37	31	31	U 30	30	30
	CNT	29	27	27	23	28	31	29	31	28	310	31	31	31	31	31	30	31	31	29	31	28	31	28	30

SWEEP 1.2 MC TO 17.0 MC. MAY, 1961

TABLE 68

TANANARIVE, MALAGASY REPUBLIC (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
fo F2	MED	25	24	25	25	22	22	36	65	77	86	84	88	87	84	80	77	78	76	62	41	32	34	32	29
	CNT	29	28	31	29	27	29	30	23	28	24	28	26	26	30	23	25	28	28	30	30	30	29	30	29
	UQ																								
	LQ																								
h'F2	MED									260	265	278	285	285	278	280	U 282	U 270							
	CNT									10	26	26	31	22	26	14	4	2							
	UQ																								
	LQ																								
h'F	MED	248	270	E 265	250	E 260	E 278	260	242	238	235	230	228	230	230	235	235	245	240	230	230	250	255	245	235
	CNT	27	30	29	26	27	30	30	30	30	31	30	26	27	23	25	25	29	29	25	25	28	29	31	29
	UQ																								
	LQ																								
M(3000)F2	MED	312	295	305	320	305	300	315	345	340	330	322	320	315	320	310	310	318	330	330	330	310	320	330	325
	CNT	28	27	30	29	27	29	30	23	28	24	28	26	26	30	23	25	28	27	29	30	30	29	29	29
	UQ																								
	LQ																								
fo F1	MED												U 430												
	CNT												1												
fo E	MED	E	E	E	E	E	E	E												E	E	E	E		E
	CNT	1	12	12	16	18	27	30	195 29	260 31	295 31	320 30	330 22	330 20	330 27	320 30	295 31	250 28	170 16	11	6	4	3		3
h'E	MED	E	E	E	E	E	E	E	U 130	122	120	115	110	U 110	U 110	115	120	125	E	E	E	E	E		E
	CNT	1	12	12	16	18	27	30	3	10	9	9	7	1	4	5	16	13	10	11	6	4	3		3
fo Es	MED	15	15	16	16	16	16	16	24	G 24	G 26	G 26	30	37	39	37	33	30	26	26	25	22	22	21	16
	CNT	29	31	31	31	31	30	30	13	23	310	30	30	29	29	30	28	28	28	22	24	20	17	13	30

SWEEP 1.25 MC TO 20.0 MC. MAY, 1961

TABLE 69

SAO PAULO, BRAZIL (23.55, 46.5W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	54	56	50	44	32	28	29	57	72	79	96	102	106	U 114	119	U 118	U 178	U 122	U 101	70	U 69	70	70	65
	CNT	22	22	22	21	21	20	19	22	22	21	21	22	23	22	21	23	24	23	24	23	24	24	24	23
	UQ	64	66	62	56	43	35	33	60	75	94	108	107	113	122	127	132	130	130	115	86	74	82	80	74
	LQ	48	43	33	34	24	24	23	55	63	74	91	91	98	105	104	112	116	108	89	63	62	61	65	58
h'F2	MED										250	255	250	260	270	260	255	240							
	CNT									4	10	19	21	15	15	16	13								
	UQ																								
	LQ																								
h'F	MED	220	220	210	220	200	240	230	230	220	U 210	210	U 200	U 180				225	220	200	190	200	220	210	210
	CNT	18	22	20	19	14	14	12	21	17	9	14	7	6	2	4	3	16	24	21	22	20	22	19	23
	UQ																								
	LQ																								
M(3000)F2	MED	330	350	335	350	340	310	320	355	360	340	340	350	325	320	320	U 320	U 330	U 345	U 360	350	325	330	345	345
	CNT	22	22	22	21	20	20	18	22	21	20	21	18	23	20	21	21	24	21	21	22	23	24	24	21
	UQ																								
	LQ																								
foF1	MED																								
	CNT													1	1										
foE	MED								U 200		U 300	U 320													
	CNT								12	2	8	6		1	2	3	3	4							
h'E	MED									U 107	109	109	109	105	U 105	109									
	CNT									5	8	15	10	6	7	9	2								
foEs	MED														U 34	U 32		U 37	U 38	U 35	U 30	U 34	U 32	U 35	U 29
	CNT	4		2	1		1	1	11	10	160	18	17	15	15	18	15	18	14	11	13	8	9	8	5

SWEEP 1.0 MC TO 25.0 MC. MAY, 1961

TABLE [illegible]

WHITE SANDS, NEW MEXICO (32.3N, 106.5W) TIME 105.0W

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	42	41	40	39	37	36	40	57	67	75	83	94	99	101	96	91	84	80	75	63	52	44	46	45
	CNT	27	30	30	30	29	28	26	30	30	31	30	30	30	30	30	30	30	30	30	30	29	30	27	25
	UQ	47	46	45	43	44	43	47	63	76	83	93	99	103	106	100	95	90	87	85	70	55	50	49	48
	LQ	36	35	34	35	33	32	35	53	65	70	75	87	88	95	93	84	78	76	70	55	45	39	39	38
h'F2	MED									U 265	270	284	280	285	280	270	270	U 250							
	CNT									5	18	24	27	30	28	27	21	5							
	UQ									305	280	300	290	292	290	280	270	266							
	LQ									258	260	274	272	272	270	260	264	246							
h'F	MED	E 278	270	280	260	E 272	270	260	235	220	209	200	200	196	202	210	214	220	230	220	220	230	250	260	270
	CNT	30	30	30	30	30	30	29	30	30	31	30	30	30	30	30	30	30	30	30	30	29	30	30	30
	UQ	290	280	285	270	280	280	279	240	221	215	204	203	202	210	218	220	230	240	230	230	250	270	270	290
	LQ	255	258	263	250	250	260	250	230	210	200	190	188	183	200	200	210	215	230	220	211	220	244	250	254
M(3000)F2	MED	290	290	290	290	290	295	300	335	330	315	305	310	300	310	310	320	320	320	340	330	310	300	300	300
	CNT	26	30	30	30	27	26	24	30	30	31	30	29	30	30	30	30	30	30	30	30	29	30	25	25
	UQ	305	300	300	305	305	305	320	340	340	330	315	310	310	315	320	320	325	340	340	330	320	315	305	310
	LQ	285	285	285	285	280	285	295	325	320	305	295	290	295	300	305	305	310	320	330	320	300	295	290	280
foF1	MED													450											
	CNT									1	1	1	3	5											
foE	MED								205	260	300	320	340	350	350	340	325	290	250						
	CNT								15	19	14	19	25	22	23	27	25	25	15	2					
h'E	MED								117	110	107	105	106	110	110	110	110	110	112						
	CNT								29	30	31	30	27	26	27	30	29	29	29	3					
foEs	MED	U 28	22	20	19					27	30	34					32	30	27	18	25	34	30	26	24
	CNT	8	12	11	10	7	4	8	30	30	310	30	30	30	30	30	30	30	30	28	21	17	16	13	13

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. MARCH, 1961

TABLE [illegible]

OKINAWA I. (26.3N, 127.8E) TIME 135.0E

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	O 64	56	54	49	44	34	30	58	77	87	96	111	124	137	145	142	137	137	D 128	D 111	D 106	D 92	D 72	64
	CNT	29	29	30	30	30	31	30	30	30	30	30	29	30	29	29	28	29	29	30	28	30	30	31	31
	UQ	83	70	71	66	53	41	35	63	84	98	105	120	133	148	156	156	151	146	144	133	124	110	101	92
	LQ	52	46	44	43	37	29	28	52	75	80	91	100	114	121	121	122	121	111	103	92	90	71	54	57
h'F2	MED									U 230	U 250	257	270	288	290	282	268	259	250						
	CNT									5	7	12	13	22	24	29	28	29	28						
	UQ									232	259	268	274	305	303	289	282	280	260						
	LQ									227	238	252	264	277	282	272	262	250	239						
h'F	MED	268	274	255	244	216	239	U 293	237	229	219	217	209	214	E 218	U 218	U 216	219	229	231	226	219	221	249	262
	CNT	29	30	30	30	30	31	31	30	31	31	31	30	29	31	31	28	31	30	31	29	31	31	31	31
	UQ	291	281	286	266	245	275	308	241	234	227	224	218	230	232	230	224	229	232	239	229	229	240	260	278
	LQ	256	259	234	219	210	218	265	227	220	210	205	199	206	209	208	208	211	223	224	216	213	218	238	247
M(3000)F2	MED	285	290	300	315	330	320	305	340	340	330	310	300	300	305	305	315	320	325	325	315	U 315	U 310	U 300	U 295
	CNT	23	25	27	29	29	29	19	26	30	30	30	29	29	27	25	22	26	23	24	18	19	13	17	14
	UQ	300	300	315	330	350	340	310	350	355	340	320	310	310	310	315	320	330	330	335	350	325	320	315	300
	LQ	275	280	285	300	310	290	290	325	330	310	295	290	290	300	300	305	305	315	315	310	305	290	285	290
foF1	MED																								
	CNT													1		1									
foE	MED																U 335	U 310	U 275						
	CNT									4	3		3		1	2	5	13	7						
h'E	MED									E 136	110	108	109	109	U 110	108	109	109	E 116						
	CNT									11	14	18	10	7	6	20	18	23	18						
foEs	MED													41	41	39	38	33	30						
	CNT	24	27	28	28	26	27	18	27	29	260	29	26	27	26	29	28	29	30	31	27	26	25	26	21

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. MARCH, 1961

TABLE 72

LEOPOLDVILLE, CONGO (4.4S, 15.2E) 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	56	59	51	42	30	40	68	80	85	96	105	115	130	137	140	138	136	137	U 130	U 141	U 128	U 130	114	82
	CNT	12	17	23	21	21	26	24	25	25	18	18	23	24	23	27	25	25	16	9	5	5	6	11	11
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	278	278	287	304	315	303	312	294	273	254	241	239	235	241	243	245	252	262	U 267	U 281	U 284	U 282	286	293
	CNT	12	17	23	21	21	26	23	25	24	19	17	23	24	23	28	24	25	16	9	5	6	5	11	11
	UQ																								
	LQ																								
foF1	MED										U 450	480													
	CNT										6	10	1	3	2										
foE	MED							240	300	340	360	U 370				350	U 300	U 260							
	CNT							16	17	19	15	6	4	4	4	13	8	6							
h'E	MED							120	110	110	110	110	110	110	U 110	110	115	120							
	CNT						4	12	13	10	13	15	13	10	9	13	15	13	1						
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. MARCH, 1961

TABLE 73

TRELEW, ARGENTINA (43.2S, 65.3W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	82	75	85	77	67	73	80	80	85	98	D 100	D 95	D 100	99	D 100	D 97	96	90	87	89	91	82	86	83
	CNT	16	17	12	12	13	9	11	11	15	9	9	9	8	6	12	12	13	13	17	13	15	7	6	11
	UQ																								
	LQ																								
h'F2	MED								U 260	U 300	295	300	310	315	310	305	300	295	300	280	265				
	CNT								3	4	9	8	9	8	7	12	10	13	10	18	8				
	UQ																								
	LQ																								
h'F	MED	300	300	280	290	290	255	245	220	220	U 210	U 200		U 190	U 200	215	215	220	220	230	240	255	300	300	300
	CNT	18	18	18	16	15	9	12	12	11	2	2		1	1	4	4	4	7	11	8	15	13	13	14
	UQ																								
	LQ																								
M(3000)F2	MED	270	280	280	275	280	270	295	305	300	285		U 285	U 295	U 290	U 290	310	310	300	310	310	295	270	U 270	260
	CNT	11	9	10	11	9	8	8	7	8	6		2	3	4	4	5	7	8	12	9	12	5	4	7
	UQ																								
	LQ																								
foF1	MED												U 510	U 530				U 470							
	CNT												3	1				1							
foE	MED																		U 330						
	CNT																		1						
h'E	MED							105	101	101	101	101	101	101	U 101	101	101	101	101	101	105				
	CNT							11	14	18	15	10	9	5	4	10	9	15	15	19	6				
foEs	MED																								
	CNT																								

SWEEP 1.3 MC TO 18.0 MC IN 30 SECONDS. JANUARY, 1961

TABLE 74

BUNIA, CONGO (1.5N, 30.2E) 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 97		U 91	U 52	45	82	100	U 111	U 115		U 132													
	CNT	5	4	9	9	13	11	11	9	5	4	7	4	3	4	2	1	2	3	3	1	2	1	3	2
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	U 258		304	U 317	294	298	267	U 248	U 235		U 235													
	CNT	5	4	10	9	11	11	10	9	5	4	7	4	3	4	2	1	2	3	3	1	2	1	3	1
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED						U 250	310	U 360			U 400													
	CNT					1	8	10	6	4	4	5	4	3	3	3	4								
h'E	MED						U 125	U 110	110	110	110	110	110	110	110	110									
	CNT					1	9	9	16	16	16	22	20	19	17	13	4	1							
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. NOVEMBER, 1960

TABLE 75

LEOPOLDVILLE, CONGO (4.4S, 15.2E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	87	85	76	73	50	64	80	90	95	110	123	126	134	136	140	140	140	140	U 136	U 150	154	161	125	88
	CNT	19	17	14	20	23	22	20	23	20	12	13	15	19	21	24	18	17	12	9	9	14	19	20	12
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	255	260	278	297	304	301	292	267	247	235	226	226	233	236	235	239	243	U 250	U 242	U 256	272	288	276	U 257
	CNT	16	14	13	13	22	17	16	22	20	12	13	15	19	22	24	17	16	9	8	8	14	17	19	9
	UQ																								
	LQ																								
foF1	MED																								
	CNT										2	1													
foE	MED						U 210	290	310	360	U 380			U 400	U 370	350	U 300	U 250							
	CNT						7	14	14	18	9	1	3	6	8	12	8	7							
h'E	MED						U 135	120	110	110	110	110	U 110	110	110	110	115								
	CNT						8	13	12	11	16	11	7	11	11	14	13	3							
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. NOVEMBER, 1960

TABLE 76

WILKES STATION, ANTARCTICA (66.3S, 110.5E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 56	U 59	U 61	U 66	U 68	U 70	U 70	U 62	U 60	U 60	U 59	U 58	U 53	U 56	U 57	U 57	U 45	U 48	U 45	U 49	U 47	U 52	U 52	U 52
	CNT	13	11	14	10	9	10	11	11	15	16	15	18	17	15	14	10	16	12	13	14	17	15	16	16
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	215	220	230	220			U 215	210	210	230	220	250	255	270	270	U 260	U 260	U 250	255	260	260	250	230	220
	CNT	13	14	11	8	4	3	6	8	12	12	18	14	12	15	15	16	11	11	10	14	16	14	16	16
	UQ																								
	LQ																								
M(3000)F2	MED	U 255	U 255	U 245	U 240	U 235	U 235	U 230	U 230	U 230	U 225	U 230	U 240	U 235	U 245	U 270	U 265	U 260	U 270	U 270	U 280	U 285	U 290	U 270	U 265
	CNT	13	11	13	9	8	9	7	7	14	13	12	18	15	13	12	10	11	10	12	12	15	11	14	14
	UQ																								
	LQ																								
foF1	MED	U 420	U 440	U 460	U 460	U 440	U 440	U 440	U 440	U 410	U 410	U 390	U 360	U 340	U 320									U 390	U 420
	CNT	15	14	13	11	7	10	8	12	13	16	16	16	13	7	1						1	1	10	12
foE	MED	U 300	U 320	U 330	U 340				E 320	300	U 280	U 260	U 240	U 210	U 180	U 145	U 110	U 100	U 108	U 125	U 152	U 175	U 222	U 260	284
	CNT	13	14	10	9	4	4	4	7	8	11	14	10	9	11	11	9	9	6	10	10	8	12	10	12
h'E	MED	100	100	100	100	100	100	100	100	100	100	110	110	110	110	E	E	E		E		110	110	100	100
	CNT	12	13	14	12	12	11	10	13	12	11	13	13	12	8	5	7	9	4	5	3	9	12	13	14
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 15 SECONDS. NOVEMBER, 1960

TABLE 77

BUNIA, CONGO (1.5N, 30.2E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U				U	U	U	U	U	U			U	U										
	CNT	90				41	82	110	109	122	121			133	135										
	UQ	6	4	2	4	5	6	6	6	6	5	3	4	6	5	4	2	1		1		2	1	1	1
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MEQ	U				U	U	U	U	U	U			U	U										
	CNT	262				298	317	289	262	244	231			226	226										
	UQ	6	4	2	4	5	6	6	6	6	5	3	4	6	5	4	2	1		1		2	1	1	1
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MEQ																								
	CNT						2	2	3	3	4	4		2		1	1								
h'E	MED																								
	CNT					1	1	1	3	3		4	3	2	3	3									
foEs	MEQ																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. OCTOBER, 1960

TABLE 78

LEOPOLDVILLE, CONGO (4.4S, 15.2E) 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	72	84	76	65	42	65	81	88	105	116	125	130	139	144	145	144	146	145	U 143	U 141	U 147	150	125	85
	CNT	11	14	17	21	23	24	20	16	18	22	23	25	22	22	25	23	19	11	6	5	5	13	15	13
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MEQ	255	269	289	299	309	303	296	275	244	237	241	230	238	241	242	243	245	250	U 256	U 265	U 272	285	279	267
	CNT	10	12	17	21	23	23	18	16	18	22	23	25	22	22	25	23	19	12	5	5	5	13	14	11
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT								1	2	1		1												
foE	MED						U 200	270	320	U 360	U 390			U 400		340	U 300	U 240							
	CNT						8	16	18	17	9	3	2	7	4	10	7	5							
h'E	MEQ						135	U 115	110	110	110	110	110	110	110	110	110	U 120							
	CNT						16	6	14	13	20	13	12	13	18	24	20	5							
foEs	MEQ																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. OCTOBER, 1960

TABLE 79

BUNIA, CONGO (1.5N, 30.2E) 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	U	U												U							
	CNT			91	84	76	91	111	124	130	134	137	140	140	138	139	134	134							
	UQ	2	3	5	5	5	15	22	28	27	25	22	18	21	21	23	14	7	4	1			2	1	3
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED			U	U													U							
	CNT			300	312		305	295	268	254	240	230	230	221	221	215	215	213							
	UQ	2	3	5	5	4	15	22	28	27	25	22	18	21	21	23	14	7	4	1			2	1	3
	LQ																								
foF1	MED																								
	CNT																								
foE	MED						U 250	310	350	380	400	U 400	U 400	U 400			U 250								
	CNT						9	16	17	13	16	9	7	6	2	3	5								
h'E	MEQ						U 120	110	110	110	110	110	110	110	U 110	115	U 115								
	CNT						5	12	15	14	14	13	17	13	9	12	5								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. SEPTEMBER, 1960

TABLE 80

LEOPOLDVILLE, CONGO (4.4S, 15.2E) 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	U	U													U	U						
	CNT		67	54	60	50	62	90	110	113	120	124	130	135	140	140	140	145	161						
	UQ	3	5	5	9	15	16	17	16	22	22	20	19	19	18	20	16	7	5	1			1	1	
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED		U	U	U													U	U						
	CNT		276	269	293	305	302	302	285	261	242	235	235	230	225	228	233	242	248						
	UQ	3	5	5	9	15	16	17	16	22	22	20	19	19	18	20	16	6	5	1			1	1	
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MEQ							U 260	340	370	390	U 400				360	U 340								
	CNT						2	7	14	19	11	7	2	2	1	12	8	3							
h'E	MED							U 115	110	110	110	110	110	110	110	110	110	U 115							
	CNT						2	7	16	14	170	17	16	18	20	18	17	9							
foEs	MEQ																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. SEPTEMBER, 1960

TABLE 81

BUNIA, CONGO (1.5N, 30.2E) 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											U	U		U	U						
	CNT	1	1	60	3	68	105	120	122	125	124	126	126	129	125	127	130	130	145						
	UQ			6		10	13	14	19	18	17	15	14	12	1	4	17	5	7	1					
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED			U											U	U			U						
	CNT	1	1	106	4	299	299	293	279	267	255	244	237	230	232	231	227	4	223						
	UQ			6		10	13	19	18	14	17	16	13	12	3	8	11		7						
	LQ																								
foF1	MED																								
	CNT									1	1	3	2	1											
foE	MED							U	U	U	U	U	U	U			U								
	CNT					4		330	370	340	400	400	400	400			260								
	UQ							8	8	5	4	6	5	5	2	3	4								
	LQ																								
h'E	MED							U	U	U				U		U									
	CNT					2	3	110	110	110	110	110	110	110	110	110		1							
	UQ							6	9	2	17	10	17	8	10	9	4								
	LQ																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. AUGUST, 1960

TABLE 82

LEOPOLDVILLE, CONGO (4.4S, 15.2E) 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	75	68	60	45	40	53	86	110	116	116	118	121	121	126	130	135	134	141	U 141				U	U
	CNT	12	14	15	17	14	25	22	24	28	27	27	24	24	24	19	16	14	15	9	3	2	4	7	7
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UD																								
	LD																								
M(3000)F2	MED	296	280	278	283	286	284	291	288	284	268	255	248	238	234	238	243	246	261	U 256				U	U
	CNT	12	14	15	17	14	25	21	24	28	27	24	24	24	24	19	16	14	15	8	3	2	4	7	7
	UQ																								
	LQ																								
foF1	MED													U	U										
	CNT										3	2	3	500	560										
	UQ													5	5	4									
	LQ																								
foE	MED										U	U			U										
	CNT							260	340	360	390	400			380	360	330	260							
	UQ						1	10	11	18	7	6	3	3	8	12	10	18	1						
	LQ																								
h'E	MED						U		U								U	U							
	CNT						135		110	110	110	110	110	110	110	110	110	120							
	UQ						5	3	7	17	17	24	19	20	17	13	6	6	2						
	LQ																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. AUGUST, 1960

TABLE 83

BUNIA, CONGO (1.5N, 30.2E) 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										U									
	CNT					60	90	106	116	122	123	126	127	125	123	129	123	126	129						
	UD				2	6	15	16	15	19	20	18	13	14	12	9	11	13	10	3			2	2	2
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LD																								
h'F	MED																								
	CNT																								
	UQ																								
	LD																								
M(3000)F2	MED					U										U			U						
	CNT					307	305	296	294	282	258	250	241	232	229	231	231	246	254						
	UQ				2	5	15	16	15	19	20	18	13	14	12	9	11	13	9	3			2	2	2
	LQ																								
foF1	MED																								
	CNT								1	1	2	3	1		2										
foE	MED							U	U	U	U	U	U												
	CNT							310	360	380	400	400	400												
	UQ						2	8	11	8	9	8	5	2	3	2	1	1							
	LQ																								
h'E	MED							U	U								U								
	CNT							110	110	110	110	110	110	110	110	110	115								
	UQ					1	4	6	6	13	14	14	15	17	17	13	6								
	LQ																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. JULY, 1960

TABLE 84

LEOPOLDVILLE, CONGO (4.4S, 15.2E) 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 71	62	52	43	35	53	84	100	112	114	106	114	117	122	130	132	140	137	U 135			U	U	U
	CNT	7	14	15	17	19	23	22	21	22	25	16	19	23	21	22	23	21	22	9	2	1	5	6	8
	UD																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	U 280	284	286	278	285	274	290	294	290	272	265	255	248	241	238	244	258	265	U 277			U	U	U
	CNT	7	14	15	17	14	24	21	21	22	25	16	19	23	21	22	22	21	20	8	2	1	5	5	8
	UD																								
	LD																								
foF1	MED										U					U									
	CNT						1				4	4	2	1	2	500									
	UQ										2					5									
	LQ																								
foE	MED							U	U			U				U		U							
	CNT							250	300	350	340	400				350		260							
	UQ						1	4	4	13	14	4	2	2	2	3	2	3							
	LQ																								
h'E	MED								U									U							
	CNT								107	110	110	110	110	110	110	110	110	120							
	UQ						1	1	8	17	24	23	24	22	18	16	12	7							
	LQ																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. JULY, 1960

TABLE 85

CAPE HALLETT, ANTARCTICA (72.3S, 170.2E) 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
fo F2	MED	39	35	30	33	37	31	43	45	44	45	51	55	54	56	59	60	58	58	69	68	58	58	45	40
	CNT	20	17	14	11	19	12	15	11	17	16	15	15	19	25	23	25	27	24	26	26	24	19	18	16
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	280	285	285	300	295	300	300	295	320	285	300	290	290	300	290	290	280	290	280	290	290	285	285	280
	CNT	18	15	12	9	18	12	12	10	12	15	14	15	16	23	21	22	24	23	24	23	23	15	15	15
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h'E	MED																								
	CNT																								
fo Es	MED	17	16	23	28	22	25	25	23	27	24	J 39	J 37	J 45	J 42	J 42	J 37	J 37	28	U 21	18	U 14	U 11	U 11	E 12
	CNT	28	26	23	27	27	27	27	27	28	310	30	29	29	29	30	29	29	30	30	30	29	26	28	29

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

TABLE 86

CAPE HALLETT, ANTARCTICA (72.3S, 170.2E) 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
fo F2	MED	41	34	38	32	38	33	46	45	43	69	63	59	67	65	62	66	66	65	64	65	63	59	57	47
	CNT	20	19	14	14	11	9	8	11	9	14	12	12	13	16	22	23	24	24	24	21	22	20	10	13
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	285	280	285	275	285	302	310	290	292	300	288	305	300	295	295	290	282	280	290	290	280	280	295	285
	CNT	18	15	9	10	10	8	7	7	6	11	10	11	13	14	18	19	18	20	21	19	19	17	9	10
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h'E	MED																								
	CNT																								
fo Es	MED	U 16	18	27	25	30	26	U 22	25	32	35	36	31	U 32	J 43	U 42	42	J 34	29	U 21	U 17	E 14	U 14	U 14	U 18
	CNT	27	26	27	27	28	26	29	27	26	270	27	25	26	28	28	27	28	27	28	28	28	29	27	27

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

TABLE 87

CAPE HALLETT, ANTARCTICA (72.3S, 170.2E) 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	39	37	29	48	27	30	48	57	70	75	73	71	72	68	72	69	70	77	75	76	60	57	52	40
	CNT	13	11	7	9	3	6	6	11	14	13	15	14	17	20	16	22	21	19	18	19	10	14	13	11
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	270	260	270	285	260	270	285	270	295	300	295	298	305	290	285	280	290	275	280	272	265	262	260	255
	CNT	10	9	5	5	2	5	5	8	13	12	13	12	13	18	13	22	19	19	17	18	9	14	12	10
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	U 19	U 23	30	34	U 25	U 24	U 22	U 23	U 28	U 25	28	U 24	26	22	24	U 21	25	U 16	25	U 15	U 14	U 12	U 11	U 13
	CNT	27	24	22	22	21	24	25	25	25	240	24	23	24	24	25	26	25	25	26	26	26	26	25	25

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

TABLE 88

CAPE HALLETT, ANTARCTICA (72.3S, 170.2E) 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
fo F2	MED	34	37	35	35	40	40	53	65	72	72	70	70	66	67	68	71	70	72	77	70	68	71	51	49
	CNT	15	18	14	13	11	10	15	19	22	17	13	16	15	22	25	24	24	26	25	24	19	15	15	18
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	250	265	245	275	285	280	202	307	305	302	300	295	290	290	290	285	280	280	280	280	272	277	275	257
	CNT	12	11	13	12	9	9	14	14	21	16	13	15	15	22	23	22	22	22	22	23	18	12	12	16
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	20	24	35	31	30	30	27	U 26	G		U 34	26	35	38	35	34	40	U 29	27	18	16	E 13	E 13	E 13	E 13
	CNT	25	30	30	31	29	28	29	29	27		310	29	31	31	31	29	29	28	29	26	27	27	28	28	30

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

TABLE 89

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 53	D 48		U 40	D 38	U 44	D 44	D 82	D 105	U 130	U 130	D 135	D 140	D 145	D 145	D 144	D 142	D 142	D 132	D 123	D 115	D 94	D 78	D 67
	CNT	17	11	4	5	17	18	20	22	23	21	25	19	20	21	24	20	23	20	23	25	19	21	21	20
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MEQ						285		345	360	335	350													
	CNT		1		2	3	5	4	5	5	6	6	4	3	1	1	1		1					1	1
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED									270	320	330	320	330	320	360	330	300							
	CNT						1		1	6	10	9	5	8	7	7	6	5	2	1					
h'E	MEQ									100	100	100	100	100	100	100	100	100							
	CNT								1	6	8	8	5	8	7	8	6	6	3	3					
foEs	MED																								
	CNT																								

SWEEP 0.75 MC TO 20.0 C IN 5 MINUTES, MANUAL. FEBRUARY, 1960

TABLE 90

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	MEQ	114	96	82	76	55	38	37	73	110	128	141	146	U 151	160	U 164	U 172	U 161	U 164	U 162	U 166	U 182	D 150	U 152	125
	CNT	26	26	27	27	24	26	27	27	26	28	27	28	26	26	29	29	28	26	28	28	28	28	28	26
	UQ																								
	LQ																								
h'F2	MEQ										250	250	250	300	340	340	340	300							
	CNT										27	29	29	27	28	29	28	27	4						
	UQ																								
	LQ																								
h'F	MED	250	250	235	240	220	250	275	250	250	240	230	225	210	215	225	230	245	250	250	255	250	230	220	230
	CNT	27	27	28	27	27	27	27	27	28	27	29	27	28	27	27	26	27	28	28	28	29	28	29	29
	UQ																								
	LQ																								
M(3000)F2	MED	275	285	295	305	305	290	275	305	305	305	295	280	270	260	260	255	265	275	280	275	275	290	300	275
	CNT	25	25	27	27	24	26	27	27	26	28	27	28	26	26	26	26	26	25	27	27	27	25	25	25
	UQ																								
	LQ																								
foF1	MED											480	500	490	300	483									
	CNT									1	1	7	16	17	13	12	3	2							
foE	MED								160	255	310	350	370	385	380	375	350	320	250	160					
	CNT								23	24	23	27	24	26	25	24	26	24	24	15					
h'E	MEQ								125	110	110	110	110	110	110	110	110	110	110	150					
	CNT								17	23	23	26	24	26	26	24	26	24	23	10					
foEs	MED	15	16	15	18	17	20	17	25	G	G	G	G	G	G	G	G	G	G	24	16	15	15	14	16
	CNT	27	27	27	27	27	27	27	26	26	270	28	26	28	27	26	28	27	28	27	28	28	27	28	29

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

TABLE 91

CALCUTTA, INDIA (23.0N, 88.6E) TIME 90.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	D 100	D 80	D 70	D 50	D 40	40	U 44	D 70	D [illegible]	D [illegible]	D [illegible]	[illegible]	D [illegible]	D [illegible]	D [illegible]	D [illegible]	D [illegible]	D [illegible]	D [illegible]	D [illegible]	D [illegible]	D [illegible]	D [illegible]	D [illegible]
	CNT	22	22	22	22	21	22	21	21	21	20	20	20	19	20	18	19	19	21	20	19	20	20	20	21
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED					390	390	370		380															
	CNT	2		3	4	17	19	13	4	7	5														
	UQ																								
	LQ																								
foF1	MED																								
	CNT										1		1	1	1	1									
foE	MED								U 260	U 320	390	D 400	D 400	D 400	D 400	D 400	U 380	U 390	400						
	CNT								18	20	19	16	10	7	12	14	15	17	16	1					
h'E	MEQ								120	100	100	100	100	100	100	100	100	100	100						
	CNT							1	29	21	20	20	18	12	14	14	17	18	19						
foEs	MEQ	E	E	E	E	E	E	E	[illegible]	C	C	C	C	C	C	C	C	[illegible]	[illegible]	[illegible]	E	E	E	E	E
	CNT	22	22	22	22	21	22	21	21	20	200	17	16	11	13	12	14	17	17	20	19	20	20	20	21

SWEEP 1.0 MC TO 13.0 MC IN 1 MINUTE 55 SECONDS. FEBRUARY, 1960

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	MEQ	D 126	D 111	D 94	D 83	U [illegible]	83	43	41	74		U 133	U 156	U 162	D 153		D 154	D 154	D 150	D 152	D 146	D 147		D 150	D 152	D 140
	CNT	11	10	9	13	22	22	27	28	29		24	24	28	28		28	28	26	26	28	28	2	10	10	11
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MEQ		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	260	245	240	225	240	240			250				
	CNT						[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	14	11	8	11	8	5	3	4	5		1	2	3
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								340		400	420	460	480	470	450	420	380	380	380					
	CNT								7		17	17	15	11	8	13	12	11	10	8					
h'E	MEQ								140		120	120	120	140	120	140	140	140	140	120					
	CNT								7		17	17	14	11	8	13	11	11	13	8	1				
foEs	MED																								
	CNT																								

SWEEP 0.5 MC TO 25.0 MC IN 5 MINUTES, MANUAL. FEBRUARY, 1960

TABLE [illegible]

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
fo F2	MED	118	110	96	79	69	48	45	99	126	132	127	118	119	122	125	128	125	128	113	112	115	118	120	118
	CNT	28	26	16	24	28	29	27	26	25	28	26	28	27	17	26	28	26	25	29	28	23	23	26	25
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED							320	310	285	260	240	240	230	230	235	240	235							
	CNT						3	9	16	20	19	15	17	24	11	22	14	7	1	1					
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h'E	MED																								
	CNT																								
fo Es	MED																								
	CNT																								

SWEEP 2.5 MC TO 20.0 MC IN 5 MINUTES. MANUAL. FEBRUARY, 1960

TABLE 94

TRIVANDRUM, 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
fo F2	MED	D 106	D 106	D 97	D 85	D 67	D 62	U 66	D 98	D 118	U 124	118	113	11[illegible]	117	U 119	U 124	D 120		D 107	D 103	D 102		U 104	C 107
	CNT	10	10	9	11	11	17	21	27	24	19	24	25	26	[illegible]	14	28	28	2	28	18	9	4	7	8
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED						365	350	300	290	260	240	245	240	240	240	240	230							
	CNT				2	2	6	9	8	5	8	10	14	13	12	13	16	7	1		1				
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h'E	MED																								
	CNT																								
fo Es	MED																								
	CNT																								

SWEEP 2.5 MC TO 20.0 MC IN 5 MINUTES. MANUAL. FEBRUARY, 1960

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
fo F2	MED	107	106	100	85	73	54	50	89	113	123	119	113	111	114	116	116	118	116	110	96	U 94	U 96	104	107
	CNT	22	21	20	22	24	25	26	27	28	29	28	26	24	28	28	29	28	29	29	28	13	10	11	15
	UQ																								
	LQ																								
h'F2	MED																								
	CNT											2	2												
	UQ																								
	LQ																								
h'F	MED	235	230	225	230	220	225	250	245	230	220	210	200	200	205	205	215	230	255	285	390	360	310	270	240
	CNT	29	28	28	28	28	28	28	27	28	29	28	26	24	28	28	28	28	29	29	27	17	20	25	28
	UQ																								
	LQ																								
M(3000)F2	MED	290	300	310	315	315	325	305	300	280	250	240	240	235	230	230	230	230	230	225	205	U 220	U 240	255	270
	CNT	22	21	20	22	24	25	26	27	28	29	28	26	24	28	28	29	28	29	29	28	13	10	11	15
	UQ																								
	LQ																								
fo F1	MED																								
	CNT											2	1												
fo E	MED								250																
	CNT								17	3								1	1						
h'E	MED								115	105									115						
	CNT								24	14	3	2	1	2			2	4	10						
fo Es	MED								G	97	114	126	126	122	123	119	110	100	80						
	CNT	2	1	4	3	2			25	28	290	28	26	24	28	28	29	28	28	2		1	2	3	3

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. FEBRUARY, 1960

TABLE 96

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
fo F2	MED	104	101	U 97	83	77	56	54	U 91	112	119	116	115	113	113	119	120	120	U 120	U 114	D 100		U 110	U 110	106
	CNT	10	10	10	10	10	12	23	28	28	19	19	21	20	18	9	12	19	17	16	13	2	10	10	10
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	285	300	300	310	325	325	320	310	280	260	245	240	240	230	240	235	240	240	230	230		260	265	280
	CNT	9	10	7	6	10	11	19	22	26	17	19	21	20	17	8	11	13	8	7	6		5	8	10
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h'E	MED																								
	CNT																								
fo Es	MED																								
	CNT																								

SWEEP 2.5 MC TO 20.0 MC IN 5 MINUTES. MANUAL. FEBRUARY, 1960

TABLE 97

MUNDARING, WESTERN 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 54	D 52	D 45	D 45	D 43	58	60	60	79	70	84	D 82	76	82	81	D 80	D 80	D 75	D 70	3	3	2	3
	CNT	8	12	12	21	21	13	13	21	18	13	13	13	13	12	14	15	14	16	14	5				
	UQ																								
	LQ																								
h'F2	MED								420	400	410	445	355	375	360	360	360	350	350						
	CNT							2	6	9	8	10	16	14	15	15	18	17	6						
	UQ																								
	LD																								
h'F	MED	E 270	E 275	E 295	E 300	E 290	U 270	250	245	235	225	220	220	215	215	230	230	235	235	250	250	250	E 280	E 295	E 295
	CNT	18	20	14	21	19	20	26	24	19	11	10	16	15	12	17	17	23	26	30	27	27	25	23	22
	UQ																								
	LQ																								
M(3000)F2	MED	280	270	265	280	270	295	305	290	260	290	270	280	275	270	270	280	280	300	305					
	CNT	6	5	8	11	13	13	11	20	16	11	10	9	10	11	9	12	10	12	7	1	1	1		1
	UQ																								
	LQ																								
foF1	MED								430	500	520	530	560	580	560	560	550	530	490						
	CNT							4	12	15	8	11	14	12	12	12	16	12	5						
foE	MED						E 120	235	300	330	360	380	400	395	400	400	380	350	320	260					
	CNT						13	18	25	27	22	22	29	26	24	27	28	24	30	29					
h'E	MED																								
	CNT																								
foEs	MED	34	35	36	35	26	17	28	34	40	42	44	44	44	44	44	44	40	35	30	18	E 10	E 10	26	30
	CNT	29	29	29	28	29	21	22	28	28	210	22	27	23	22	26	27	25	30	31	27	28	29	28	27

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 45 SECONDS. DECEMBER, 1959

TABLE 98

MUNDARING, WESTERN 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 85	D 85					D 85	D 85						
	CNT	2	2	3	3	3	4	1	4	3	3	7	5	3	3	3	3	7	7	4		2		3	1
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LD																								
h'F	MED	290	280	290	270	280	300	280	250	235	230	210	200					225	240	240	225	235	240	250	275
	CNT	8	8	7	7	5	6	6	5	5	5	8	5	4	4	3	3	7	8	8	7	8	9	9	10
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT	1		1		1	2	1	2		1	2	1	1										1	
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							180	255	310	345	365	380					330	270	185					
	CNT							5	5	6	5	8	5	3	4	3	3	7	7	6					
h'E	MED																								
	CNT																								
foEs	MED	E 13	E 13	E 13	E 13		E 13	E 18	E 26	E 31	E 34	38	40					E 33	E 27	E 18	E 15	E 13	E 13	E 16	E 14
	CNT	7	7	6	6	4	6	5	5	6	50	8	5	4	4	3	3	7	7	6	7	7	7	6	8

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 45 SECONDS. Data recorded September 20th through September 30th 1959 only. SEPTEMBER, 1959

TABLE 99

MUNDARING, WESTERN 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	U 40	41	U 42	40	40	40	38	D 43	D 67	D 80	D 85	D 85	D 85	D 85	D 85	D 85	D 82	D 68	D 67	D 58	D 43	D 43	42	41
	CNT	26	26	23	26	27	24	24	24	27	26	24	25	28	26	27	27	28	26	26	25	25	24	25	26
	UD																								
	LD																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	270	270	270	270	270	U 250	255	250	220	220	220	225	215	U 220	215	230	235	220	210	220	220	245	260	265
	CNT	27	28	27	28	28	28	28	26	27	28	29	25	28	27	28	28	30	28	28	28	27	26	25	27
	UQ																								
	LD																								
M(3000)F2	MED	300	305	310	300	310	320	325															325	305	315
	CNT	19	17	16	17	20	21	22	4	1											2	2	13	18	17
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								170	250	300	330	355	360	360	350	320	275	210						
	CNT								26	24	26	24	22	18	21	22	20	24	18						
h'E	MED																								
	CNT																								
foEs	MED	E 10	E 10	E 10	E 10	E 10	E 10	E 10	E 17	E 25	E 30	E 33	E 36	40	39	40	37	35	26	E 10	E 10	E 10	E 10	E 10	E 10
	CNT	27	28	28	28	28	29	28	27	28	280	29	25	25	25	27	27	27	28	28	27	26	26	26	26

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 45 SECONDS. JUNE, 1959

TABLE 100

MUNDARING, WESTERN 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	U 64	U 64	U 62	U 59	U 51	49	48	D 77	D 84	D 84	D 85	D 100	D 100	D 100	D 100	D 85	D 85	D 84	D 82			U 72	71	U 66
	CNT	21	21	18	20	16	18	21	12	23	25	25	25	25	24	26	24	25	25	12	4	3	9	15	19
	UD																								
	LD																								
h'F2	MED																								
	CNT																								
	UD																								
	LD																								
h'F	MED	260	265	260	260	250	265	255	240	230	225	220	215	215	220	230	225	230	230	225	230	240	245	250	255
	CNT	26	27	26	25	25	25	25	25	25	26	25	26	25	24	26	25	26	26	26	26	26	24	26	26
	UQ																								
	LQ																								
M(3000)F2	MED	305	U 305	U 305	U 315		305	315																U 315	U 315
	CNT	11	9	9	11	4	12	14	2	1													3	10	14
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								220	285	330	365	385	405	400	380	355	310	250	180					
	CNT								23	23	24	23	25	24	24	25	23	24	23	8					
h'E	MED																								
	CNT																								
foEs	MED	E 16	E 15	E 15	E 16	E 15	E 15	E 15	E 22	E 28	34	E 36	E 38	E 40	E 40	E 38	E 36	E 31	E 25	E 20	E 17	E 16	E 16	E 15	E 16
	CNT	26	27	26	26	26	26	25	25	23	250	25	26	25	24	26	24	24	24	23	25	24	24	25	25

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 45 SECONDS. USCOMM-NBS-BL APRIL, 1959

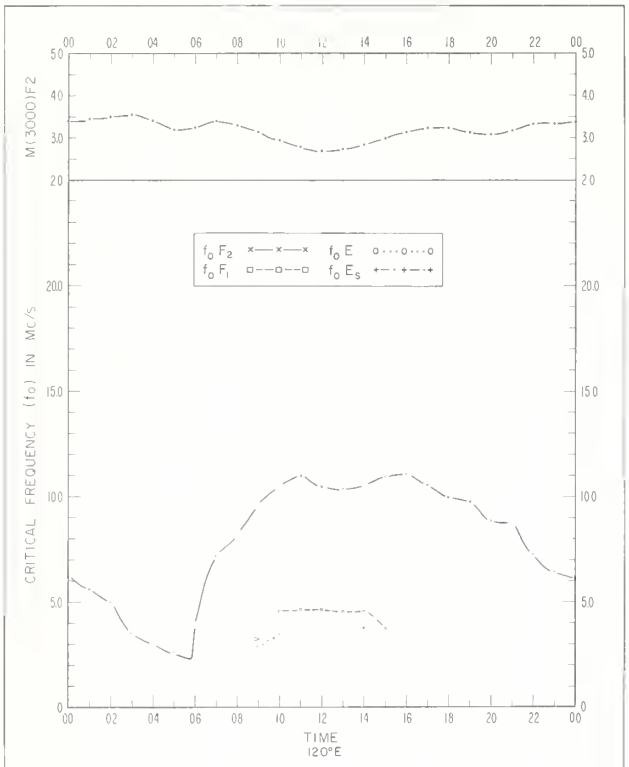

Fig 1 BAGUIO, LUZON
16 4°N, 120 6°E NOVEMBER 1962

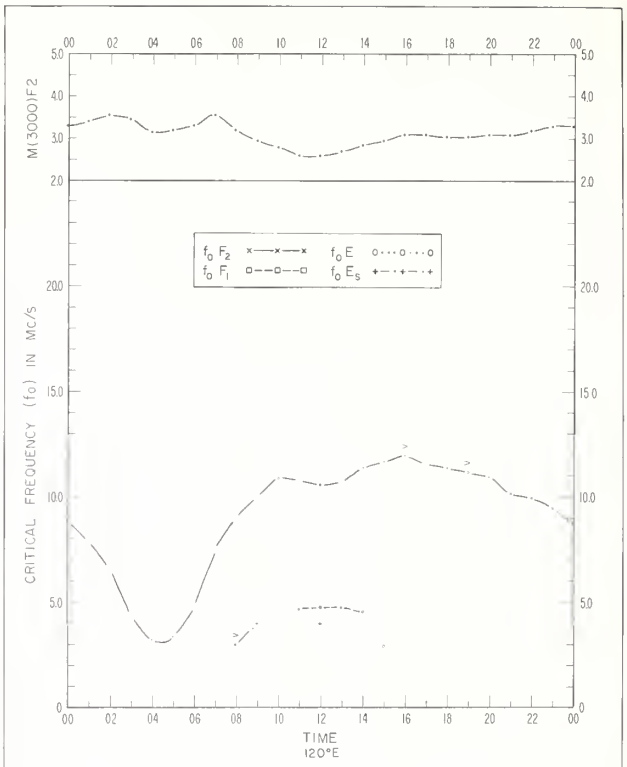

Fig 2 BAGUIO, LUZON
16 4°N, 120 6°E OCTOBER 1962

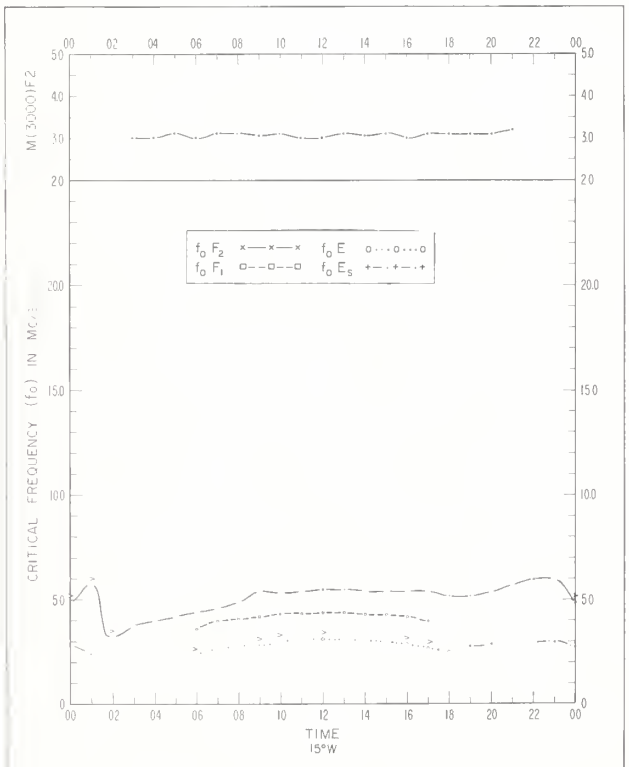

Fig 3 REYKJAVIK, ICELAND
64 1°N, 21 8°W MAY 1962

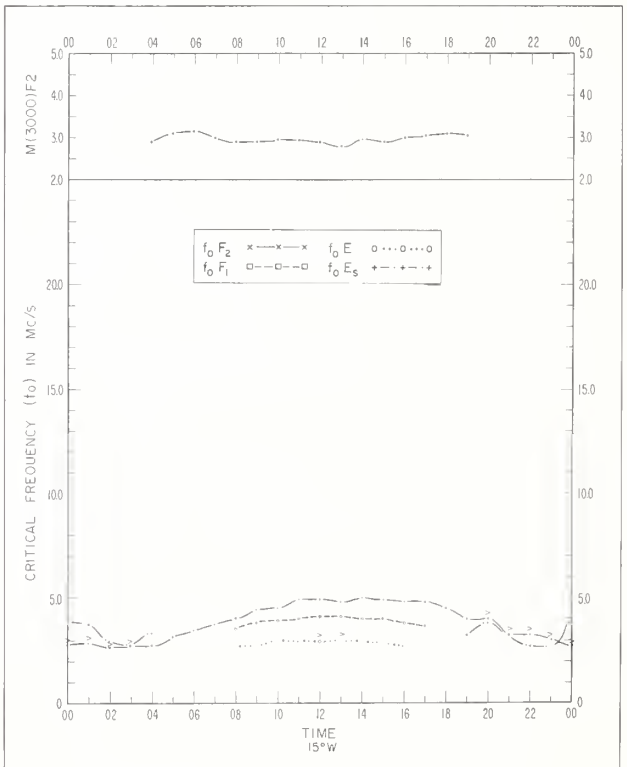

Fig 4 REYKJAVIK, ICELAND
64 1°N, 21 8°W APRIL 1962

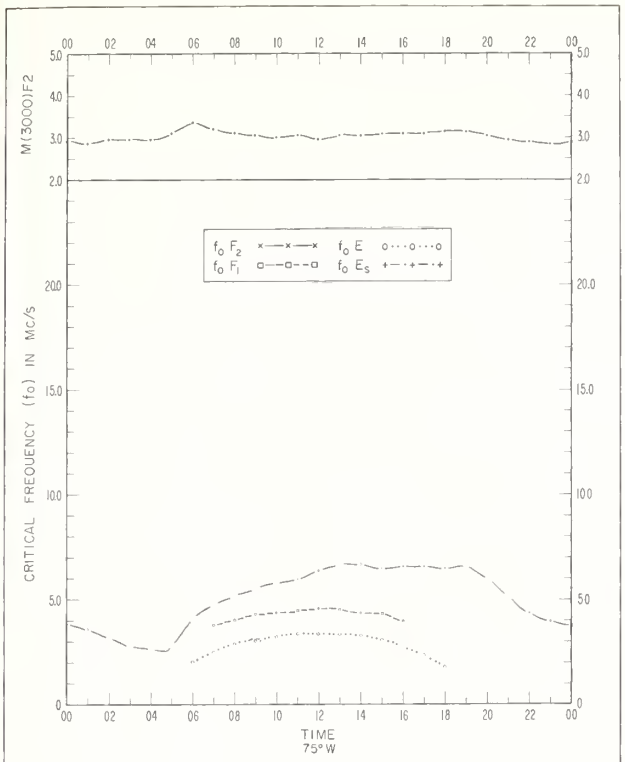

Fig 5 FT MONMOUTH, NEW JERSEY
40.4°N, 74.1°W APRIL 1962

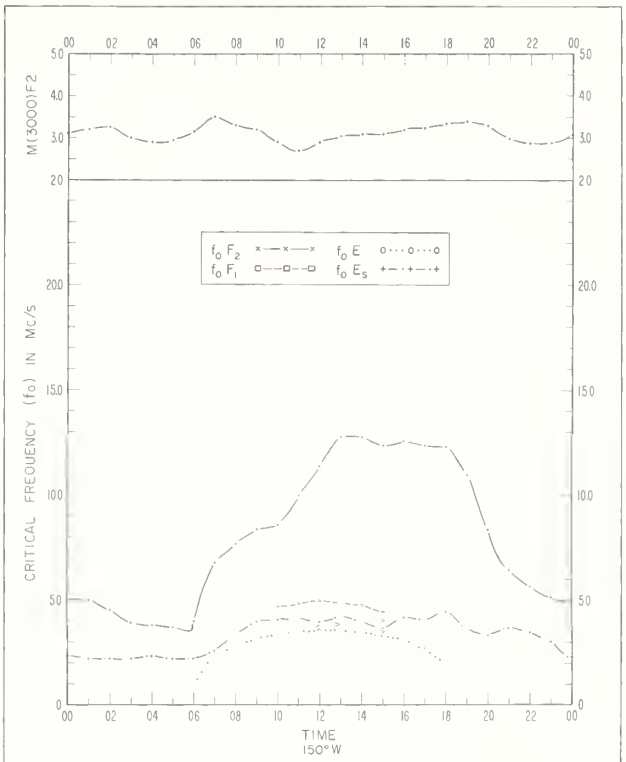

Fig. 6. MAUI, HAWAII
20.8°N, 156.5°W APRIL 1962

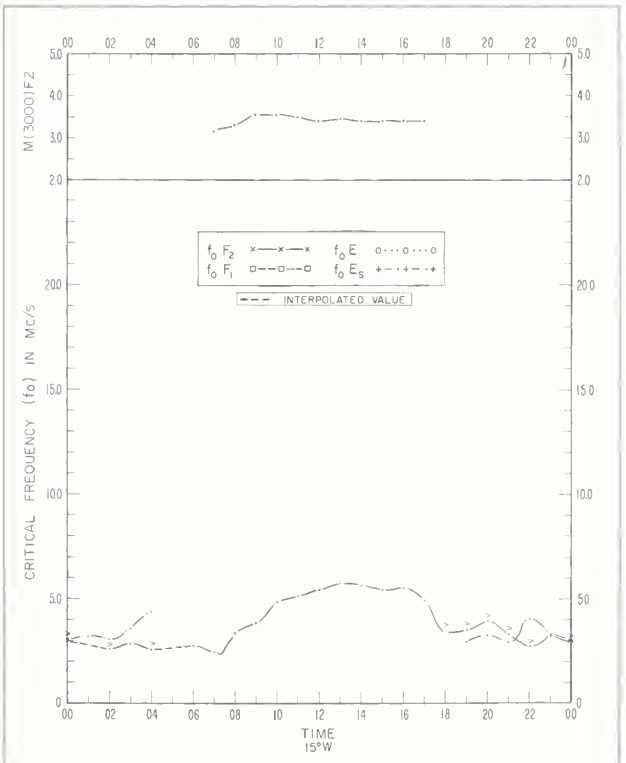

Fig. 7. REYKJAVIK, ICELAND
64.1°N, 21.8°W FEBRUARY 1962

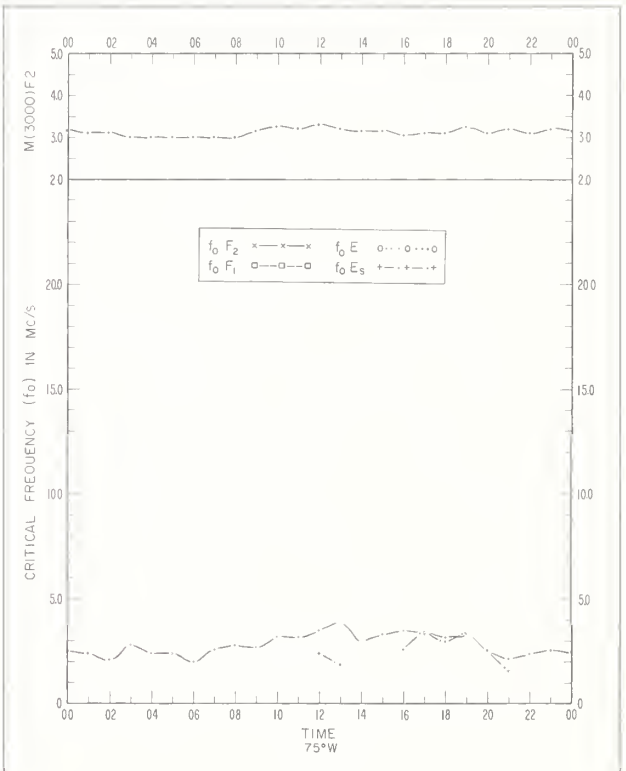

Fig. 8. THULE, GREENLAND
76.0°N, 68.0°W JANUARY 1962

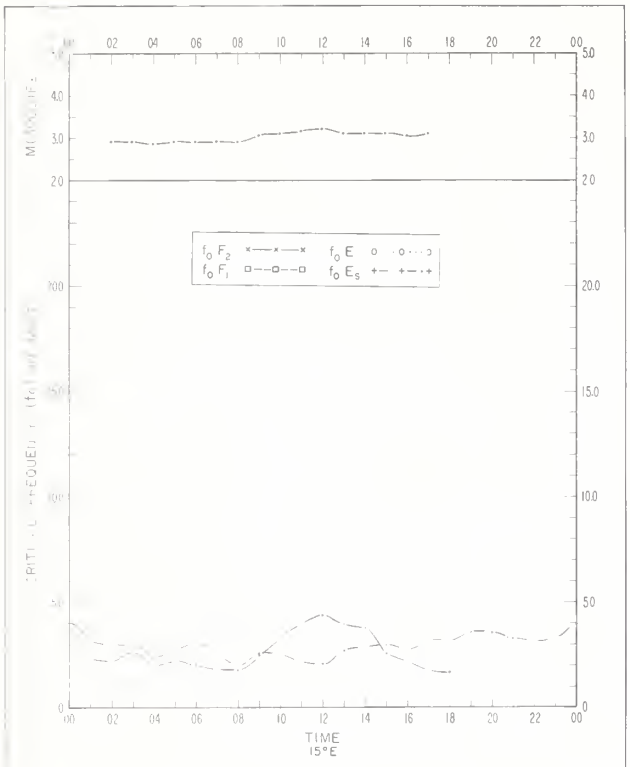

Fig 9 TROMSO, NORWAY
69 7°N, 19 0°E
DECEMBER 1961

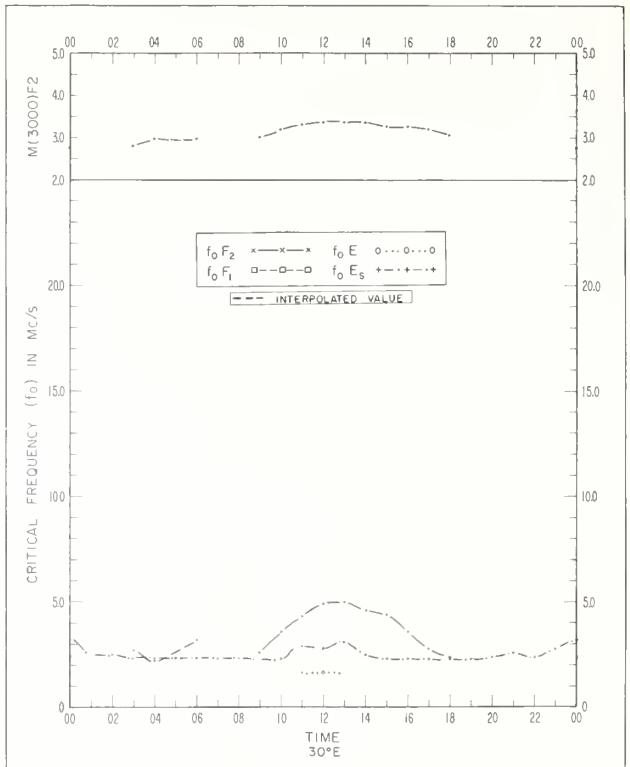

Fig. 10 SODANKYLA, FINLAND
67.4°N, 26.6°E
DECEMBER 1961

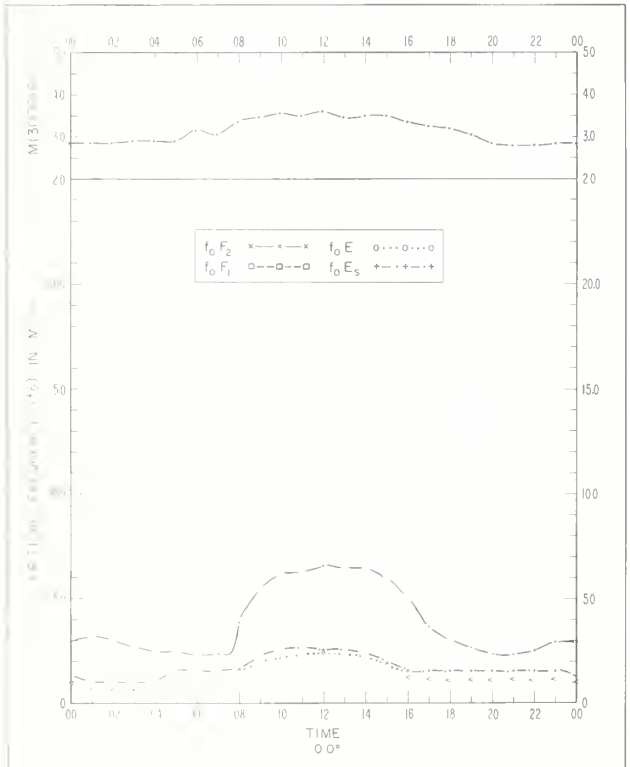

Fig 11 SLOUGH, ENGLAND
51 5°N, 0.6°W
DECEMBER 1961

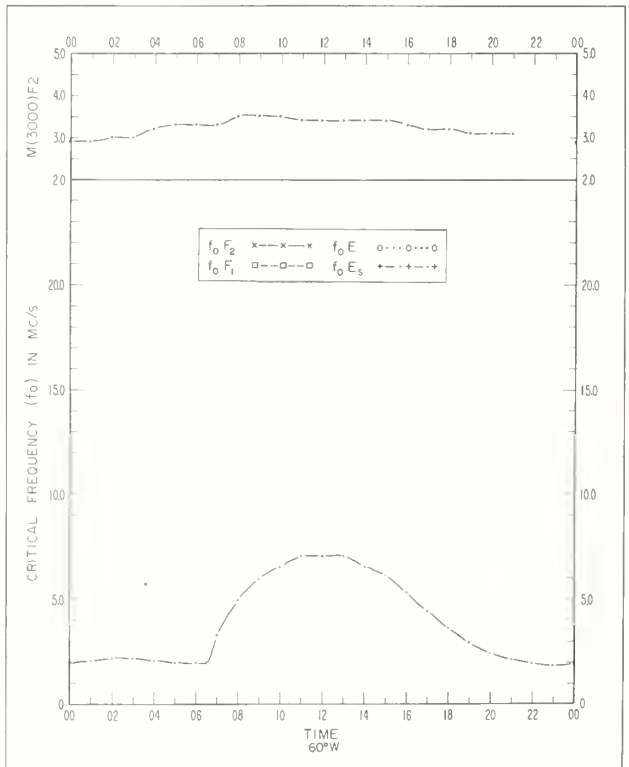

Fig 12. ST JOHN'S, NEW JERSEY
47.6°N, 52 7°W
DECEMBER 1961

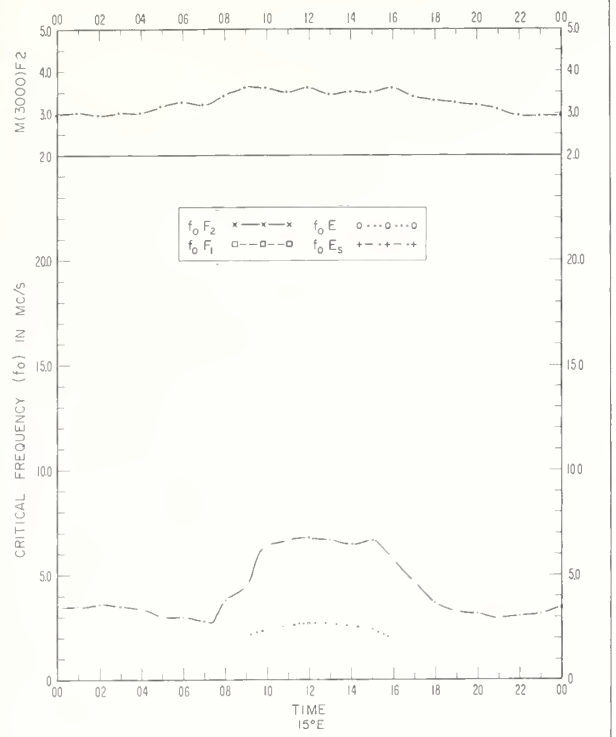

Fig 13 SOTTENS, SWITZERLAND
46 6°N, 6 7°E DECEMBER 1961

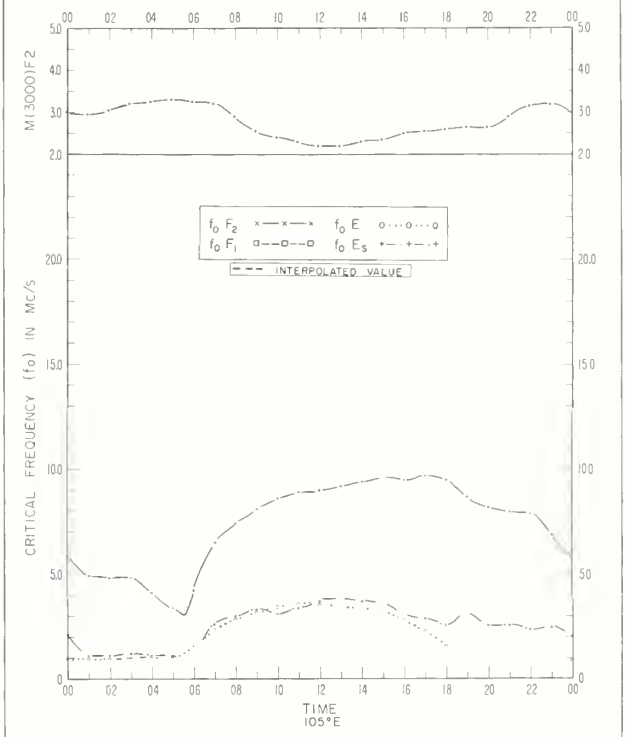

Fig 14 SINGAPORE, BRITISH MALAYA
1.3°N, 103.8°E DECEMBER 1961

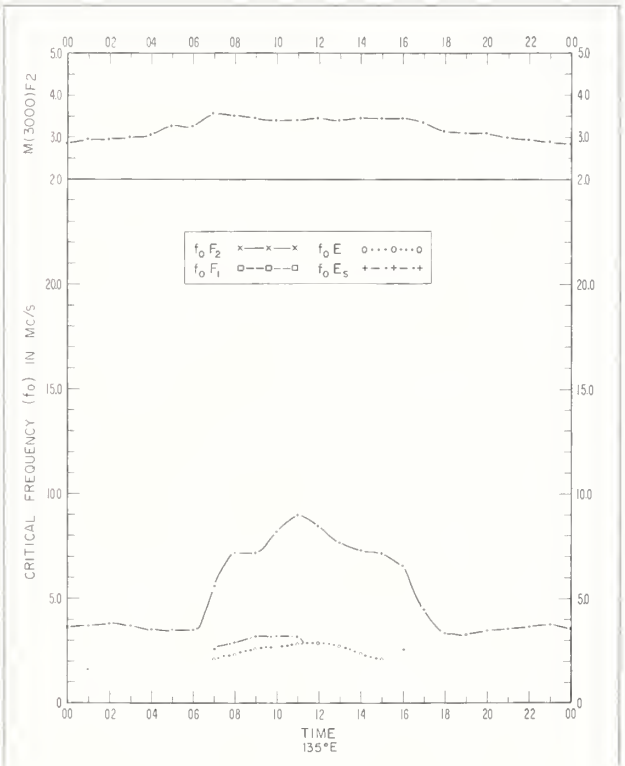

Fig 15. WAKKANAI, JAPAN
45. 4°N, 141.7°E NOVEMBER 1961

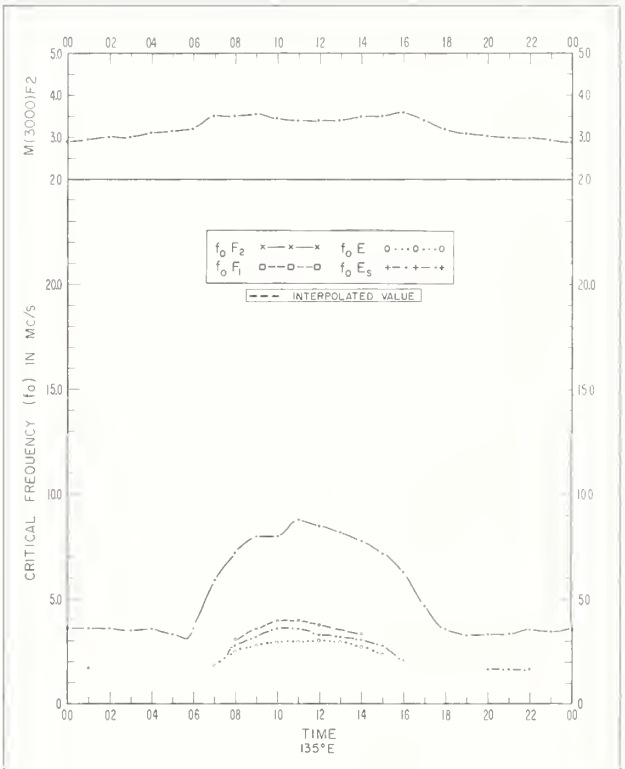

Fig 16. AKITA, JAPAN
39. 7°N, 140. 1°E NOVEMBER 1961

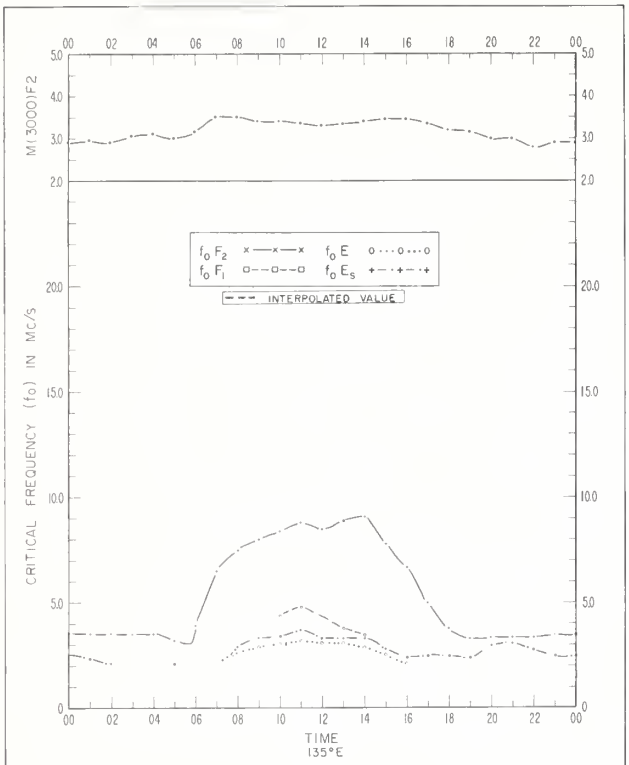

Fig 17. TOKYO, JAPAN
35.7°N, 139.5°E
NOVEMBER 1961

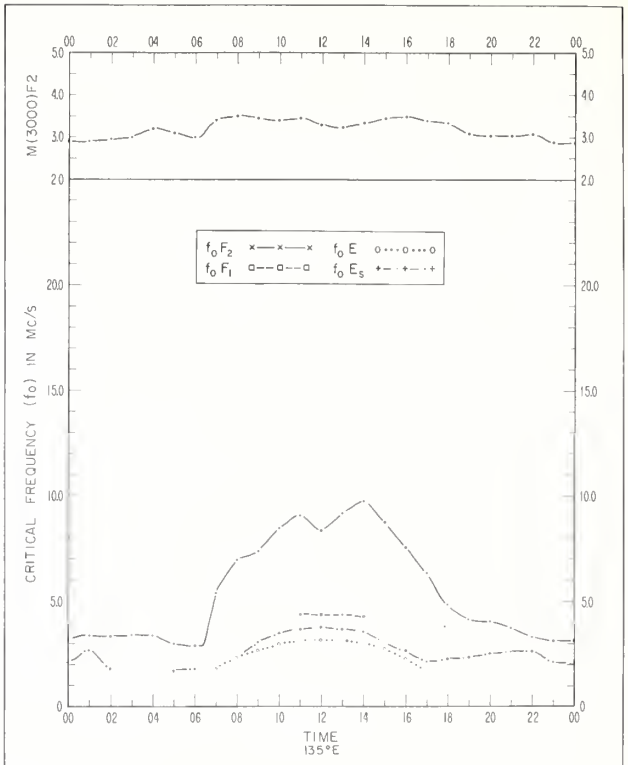

Fig 18. YAMAGAWA, JAPAN
31.2°N, 130 6°E
NOVEMBER 1961

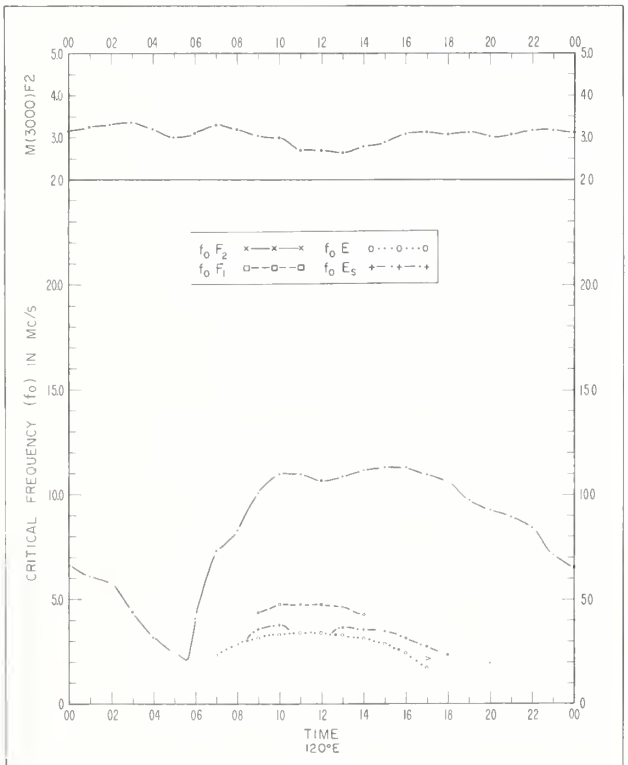

Fig 19. BAGUIO, LUZON
16.4°N, 120 6°E
NOVEMBER 1961

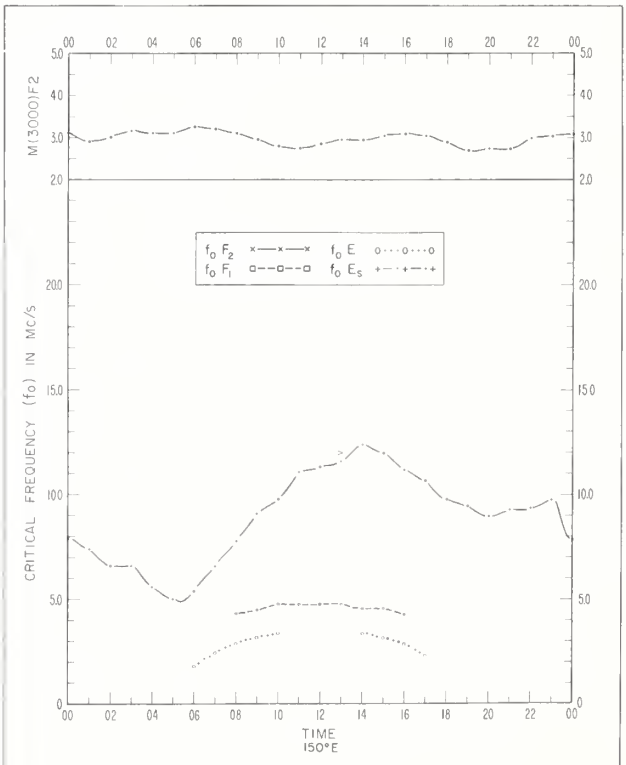

Fig 20. PORT MORESBY, PAPUA
9 4°S, 147.1°E
NOVEMBER 1961

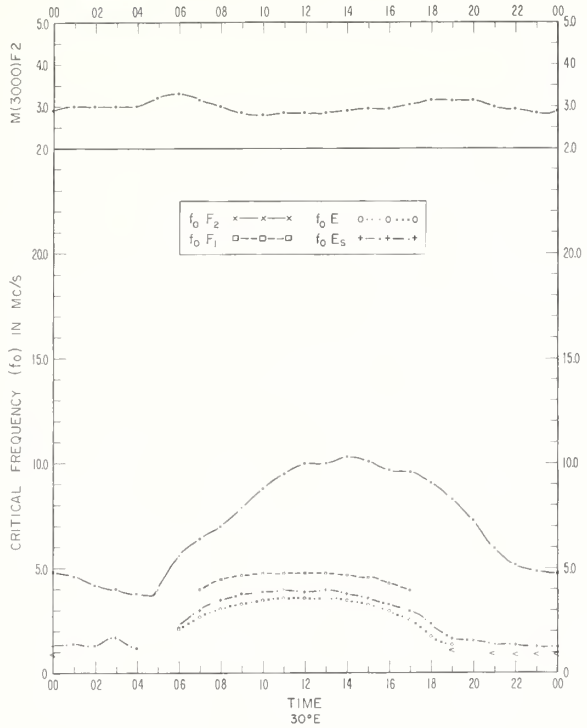

Fig. 21. JOHANNESBURG, UNION OF S AFRICA
26.1°S, 28.1°E NOVEMBER 1961

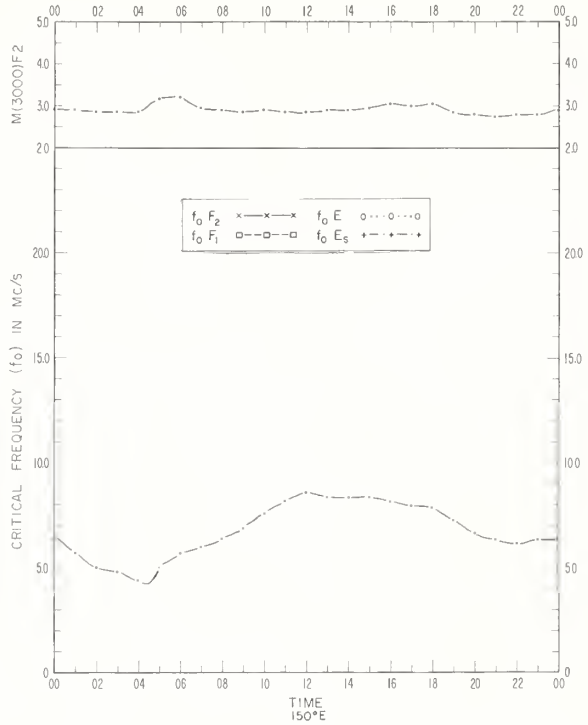

Fig. 22. BRISBANE, AUSTRALIA
27.5°S, 152 9°E NOVEMBER 1961

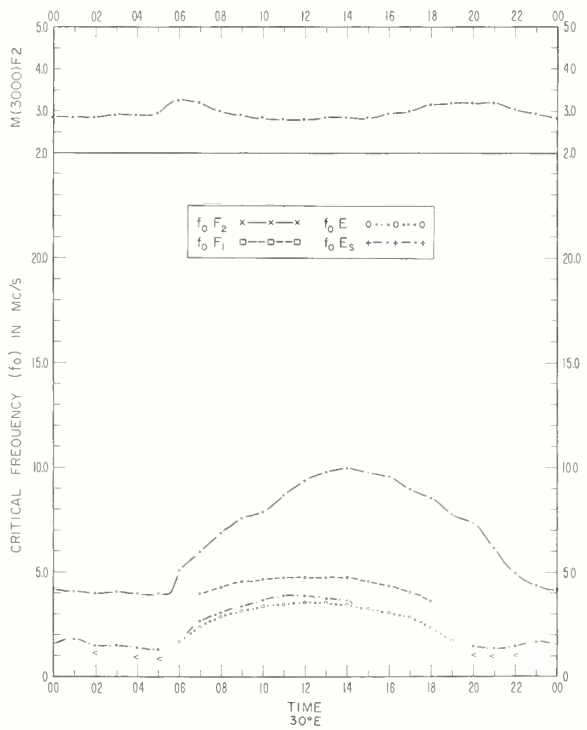

Fig 23. CAPETOWN, UNION OF S AFRICA
34.1°S, 18.3°E NOVEMBER 1961

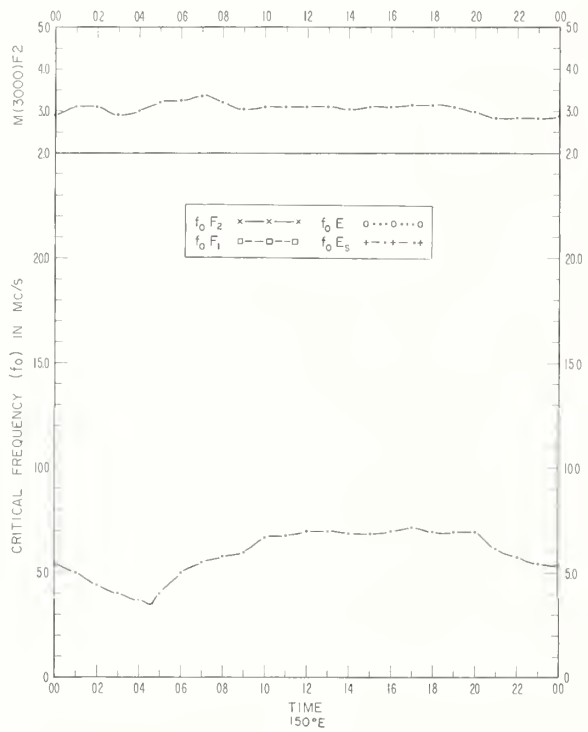

Fig. 24. CANBERRA, AUSTRALIA
35.3°S, 149.0°E NOVEMBER 1961

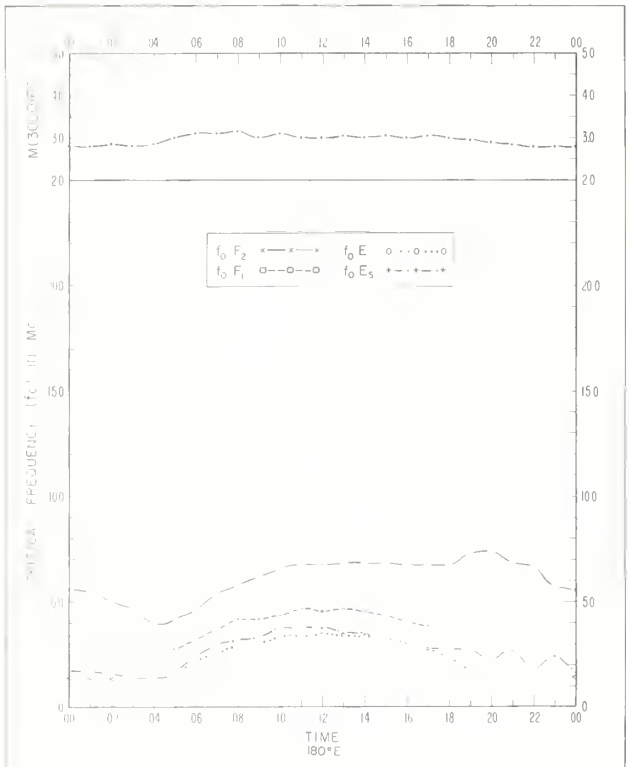

Fig 25 CHRISTCHURCH, NEW ZEALAND
43 6°S, 172 8°E NOVEMBER 1961

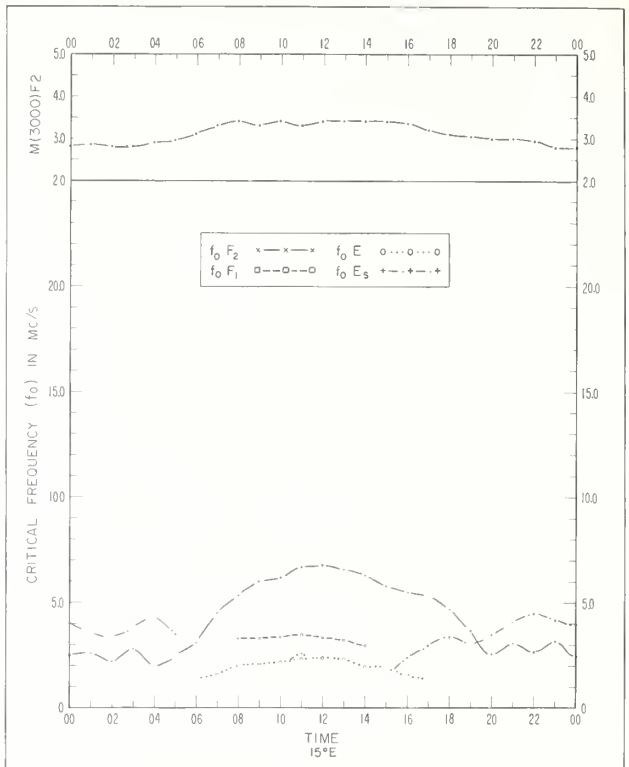

Fig 26. KIRUNA, SWEDEN
67 8°N, 20 4°E OCTOBER 1961

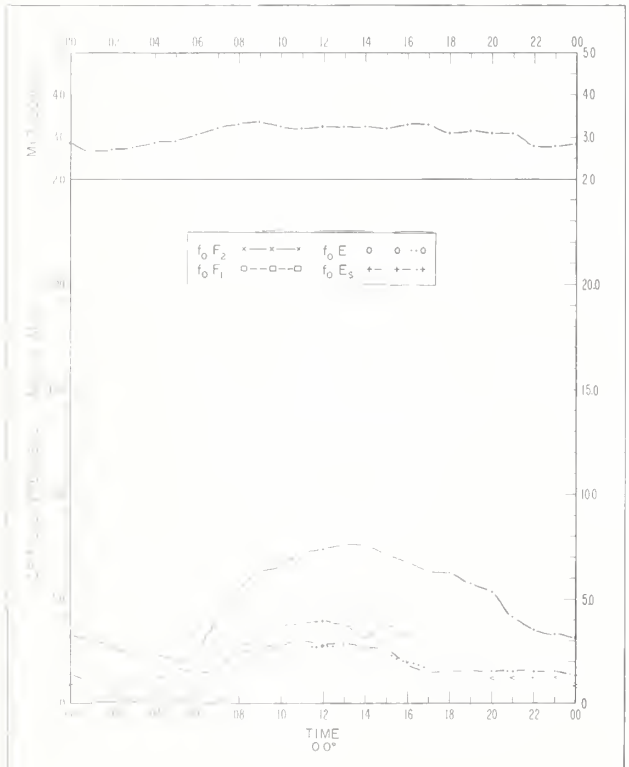

Fig 27 INVERNESS, SCOTLAND
57 4°N, 4 2°W OCTOBER 1961

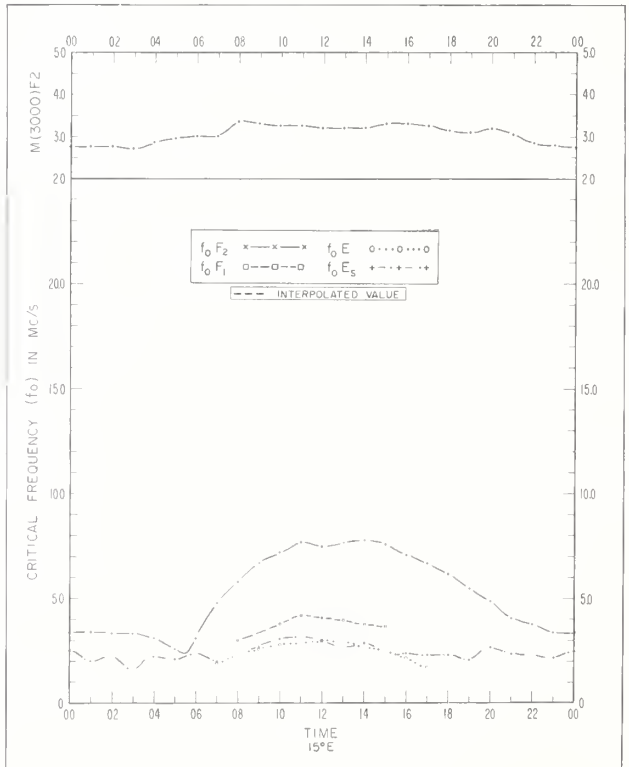

Fig 28 JULIUSRUH/RUGEN, GERMANY
54 6°N, 13.4°E OCTOBER 1961

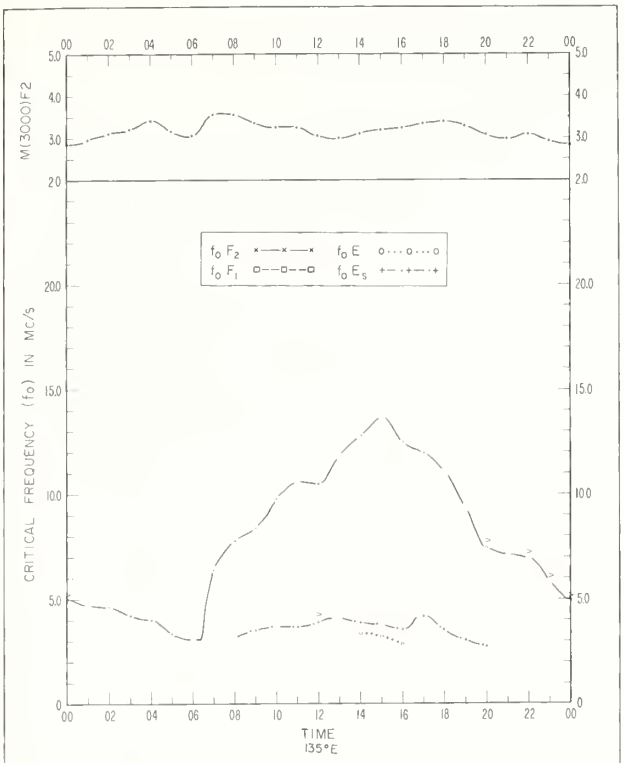

Fig 29. OKINAWA I
26.3°N, 127.8°E OCTOBER 1961

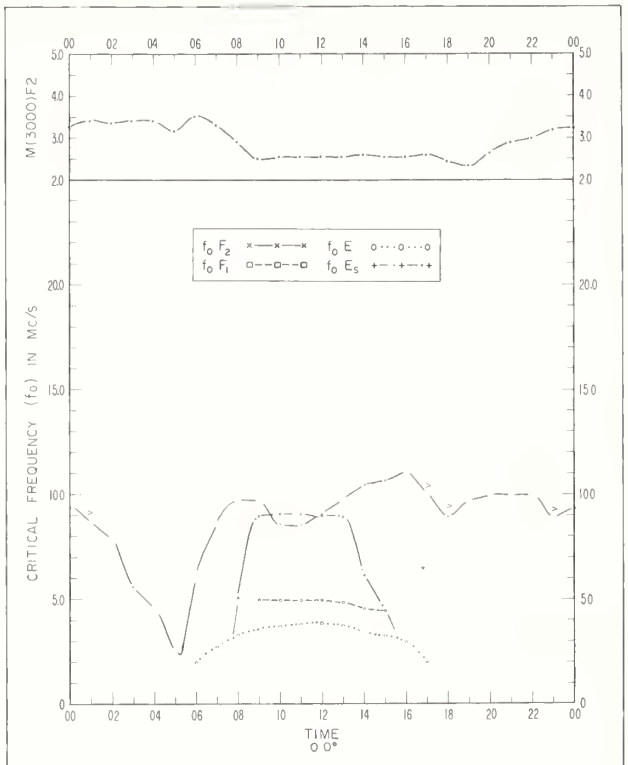

Fig 30 IBADAN, NIGERIA
7 4°N, 3 9°E OCTOBER 1961

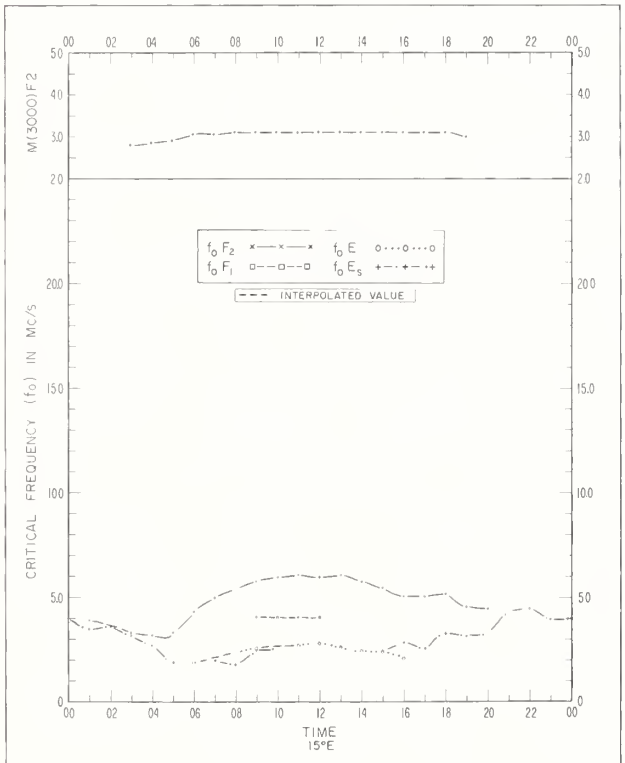

Fig. 31. TROMSO, NORWAY
69.7°N, 19.0°E SEPTEMBER 1961

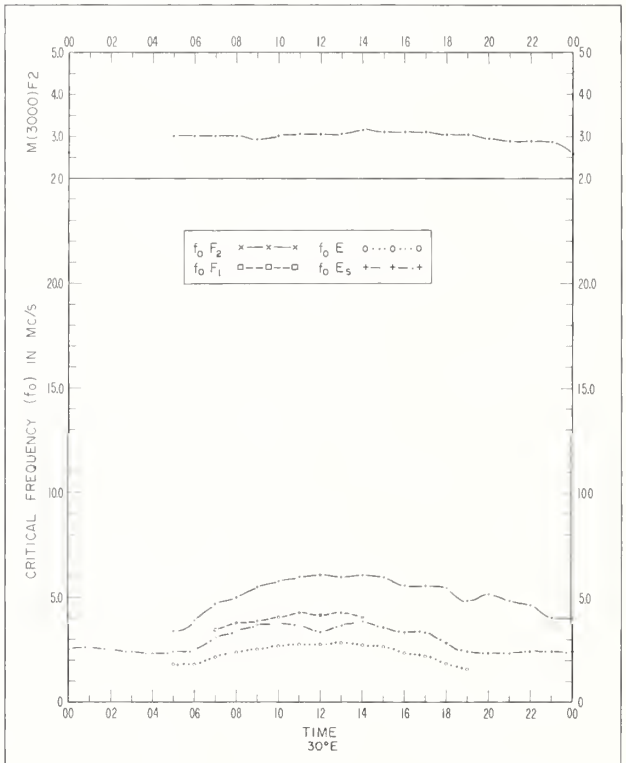

Fig. 32. SODANKYLA, FINLAND
67.4°N, 26.6°E SEPTEMBER 1961

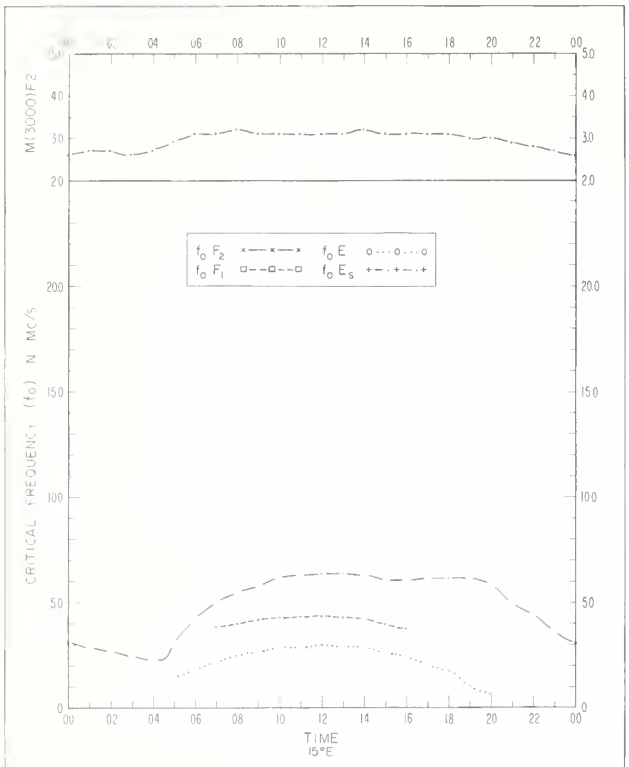

Fig 33 UPPSALA, SWEDEN
59 8°N, 17 6°E SEPTEMBER 1961

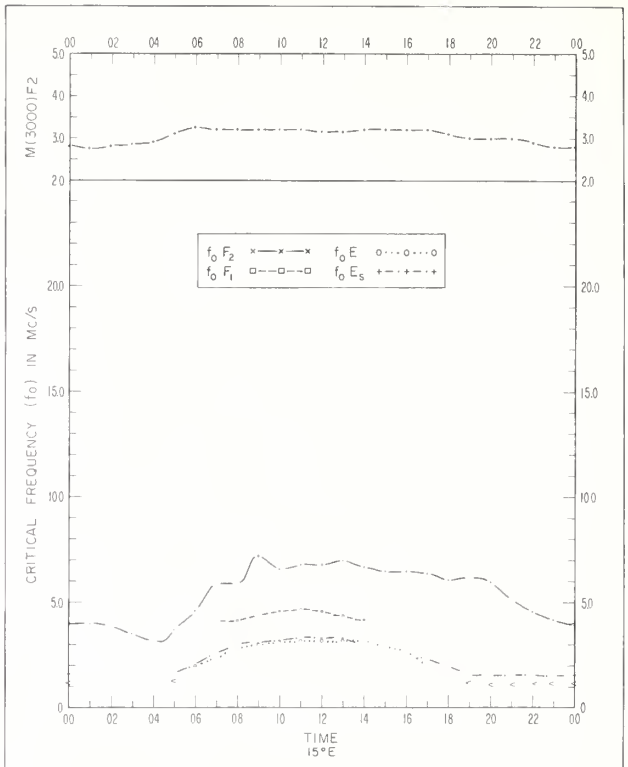

Fig 34 WARSAW, POLAND
52 2°N, 21 2°E SEPTEMBER 1961

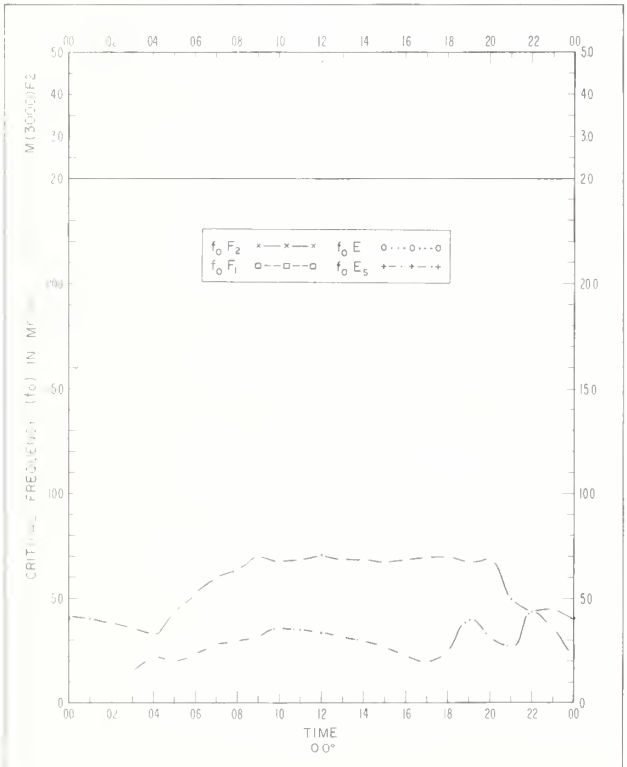

Fig 35 PRUHONICE, CZECHOSLOVAKIA
50 0°N, 14 6°E SEPTEMBER 1961

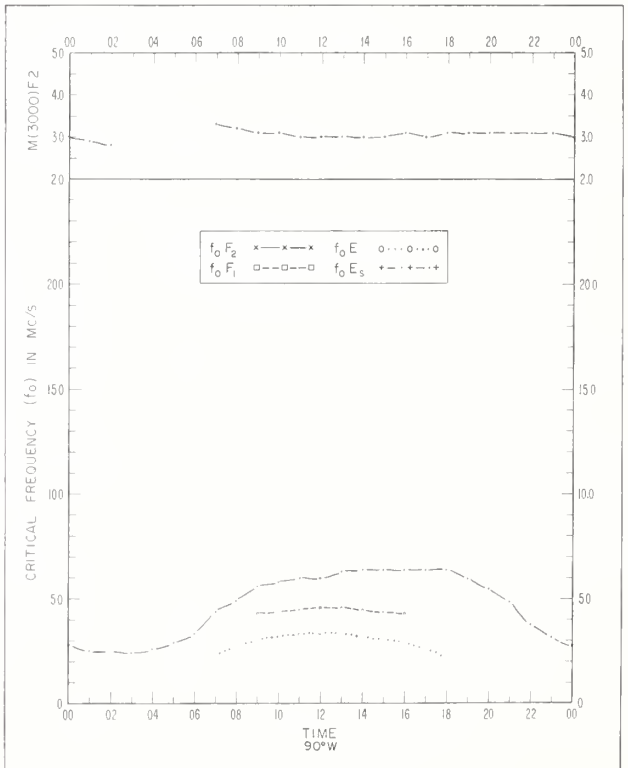

Fig 36 WINNIPEG, CANADA
49.9°N, 97 4°W SEPTEMBER 1961

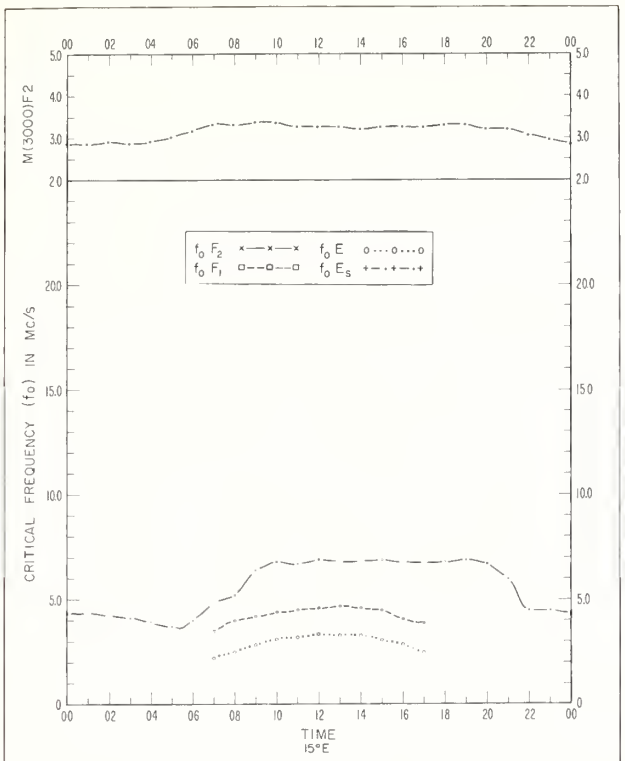

Fig 37. SOTTENS, SWITZERLAND
46.6°N, 6.7°E SEPTEMBER 1961

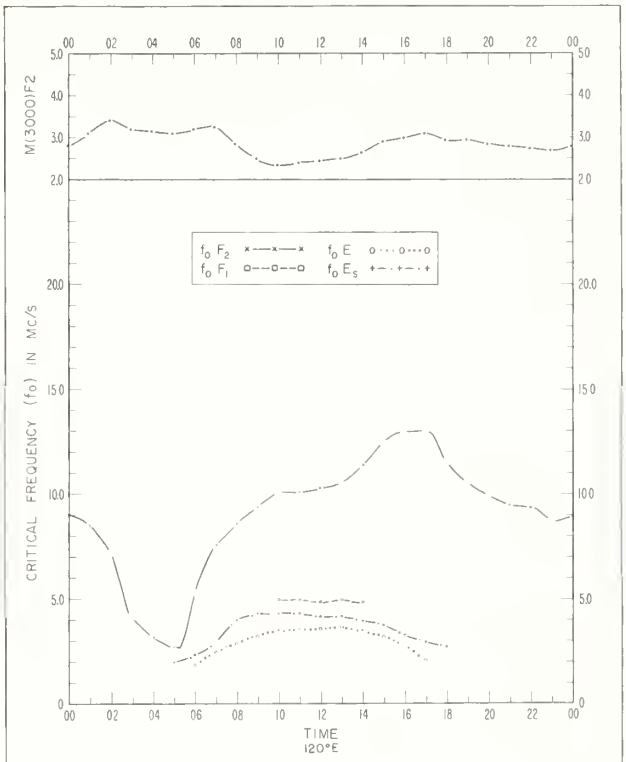

Fig. 38. BAGUIO, LUZON
16.4°N, 120.6°E SEPTEMBER 1961

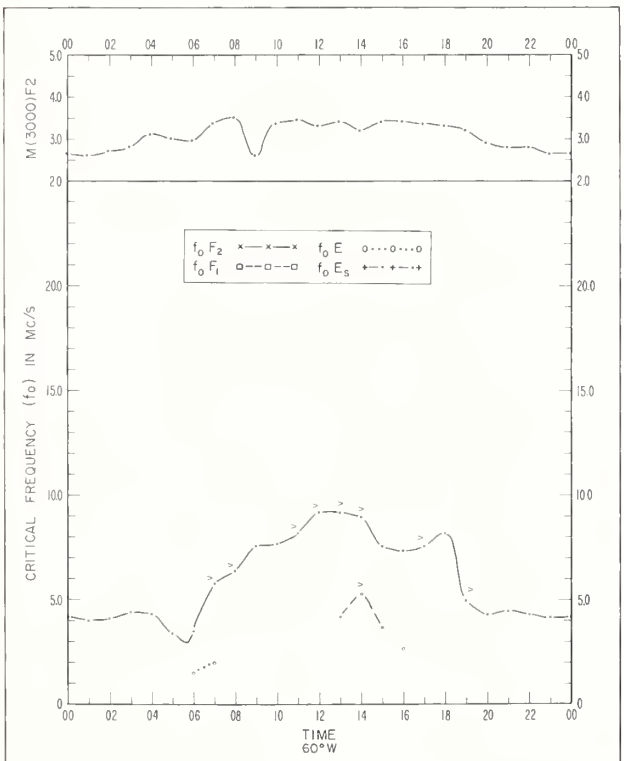

Fig 39. TRELEW, ARGENTINA
43.2°S, 65.3°W SEPTEMBER 1961

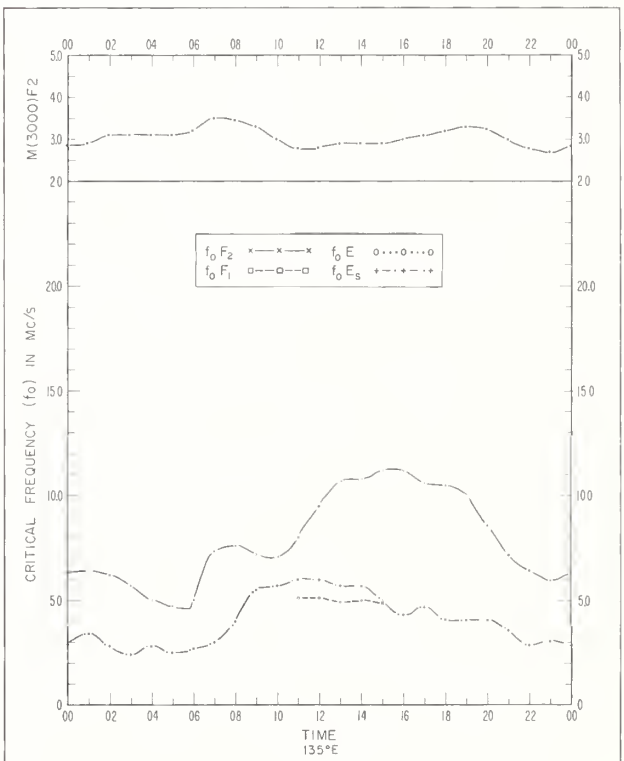

Fig. 40. OKINAWA I.
26.3°N, 127.8°E AUGUST 1961

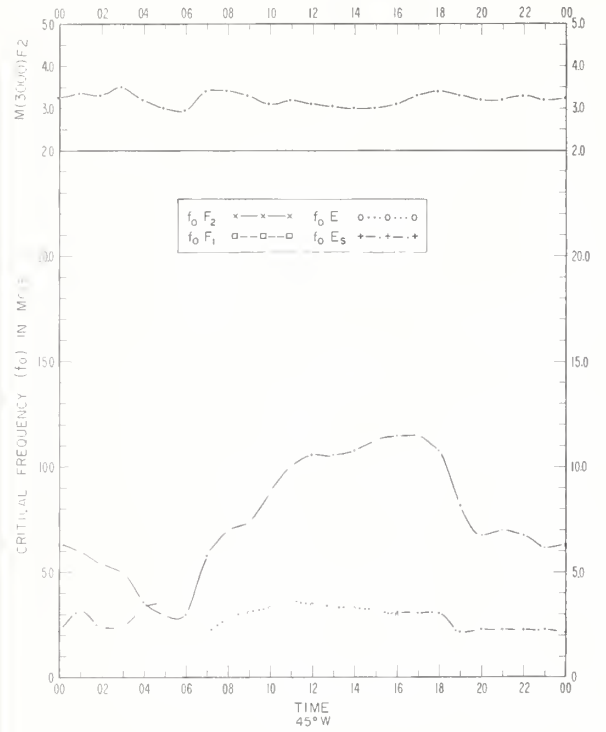

Fig 41 SAO PAULO, BRAZIL
23.5°S, 46 5°W AUGUST 1961

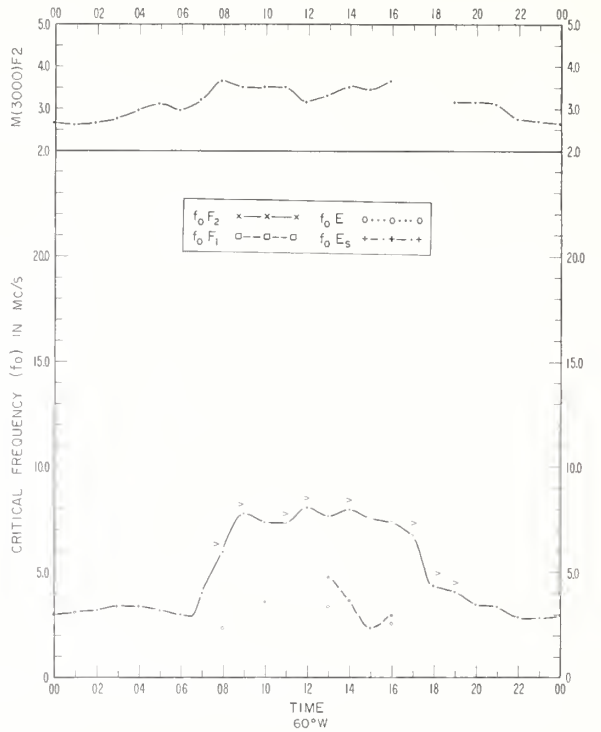

Fig 42 TRELEW, ARGENTINA
43 2°S, 65 3°W AUGUST 1961

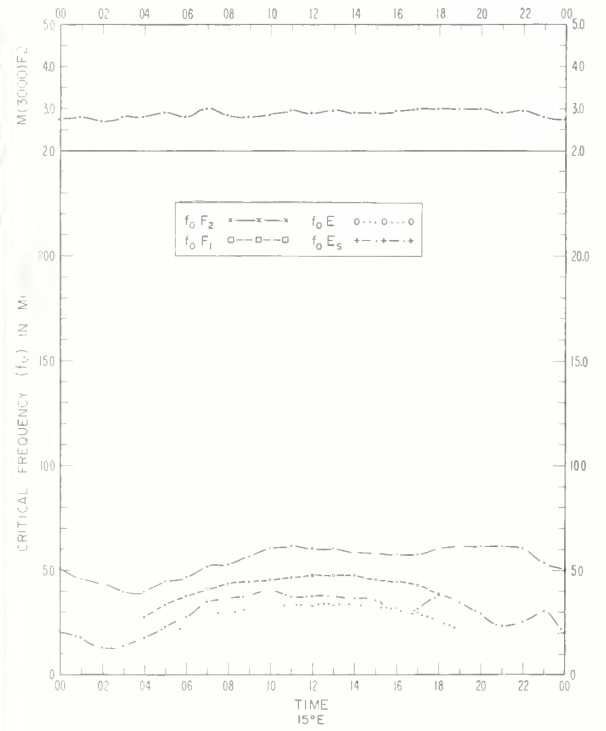

Fig 43 JULIUSRUH/RUGEN, GERMANY
54 6°N, 13 4°E JULY 1961

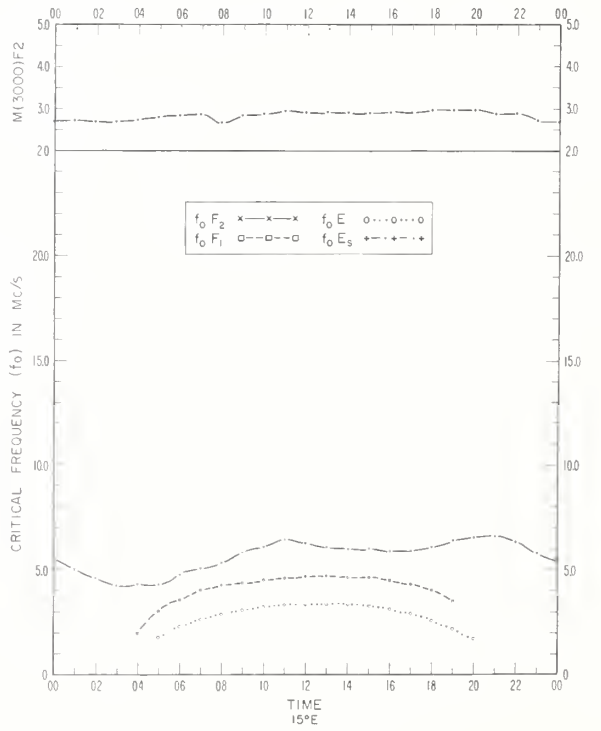

Fig 44 LINDAU/HARZ, GERMANY
51.6°N, 10 1°E JULY 1961

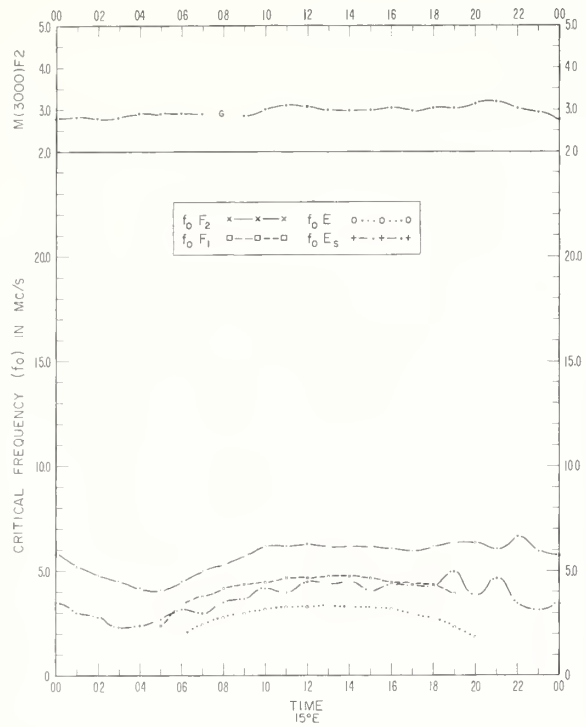

Fig. 45 PARIS, FRANCE
48 1°N, 2.3°E JULY 1961

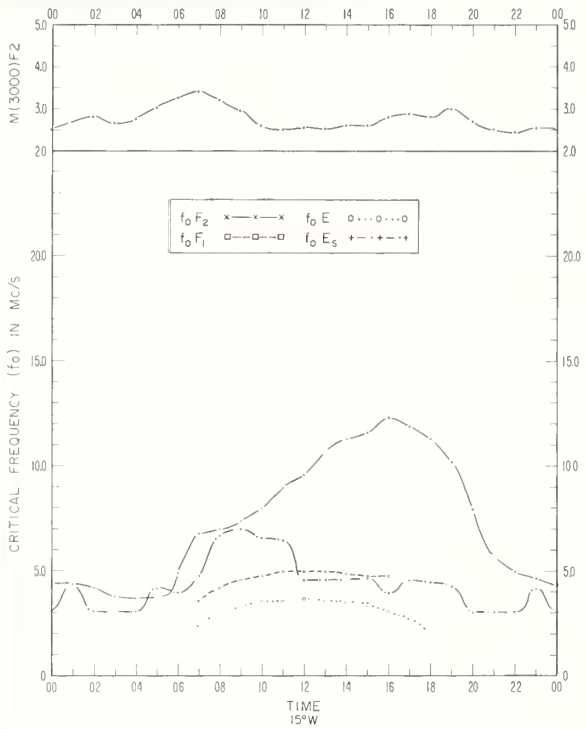

Fig 46 DAKAR, SENEGAL
14 8°N, 17 4°W JULY 1961

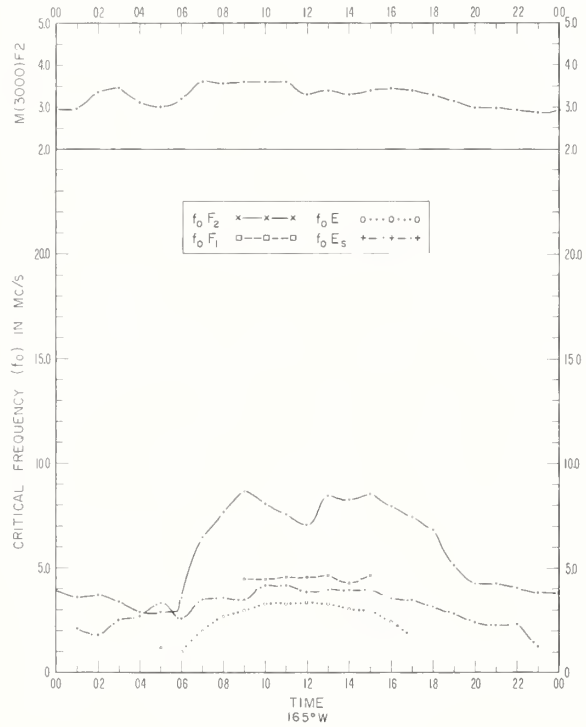

Fig. 47. RAROTONGA, COOK IS.
21. 2°S, 159.8°W JULY 1961

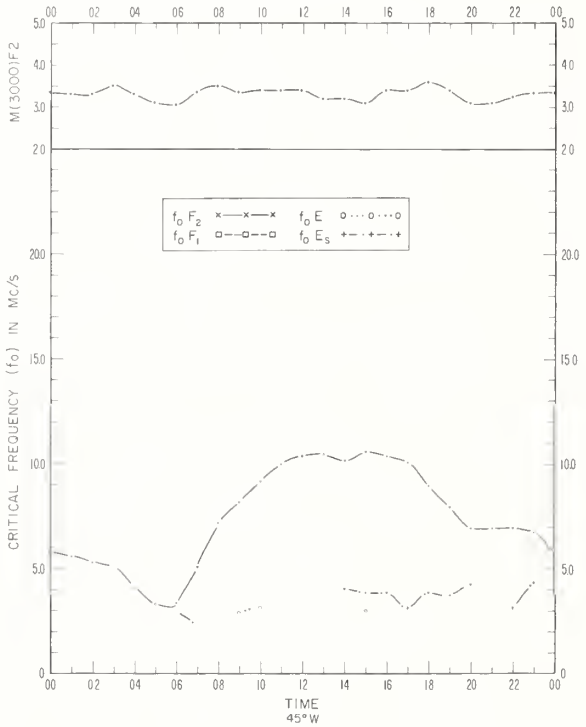

Fig. 48 SAO PAULO, BRAZIL
23 5°S, 46 5°W JULY 1961

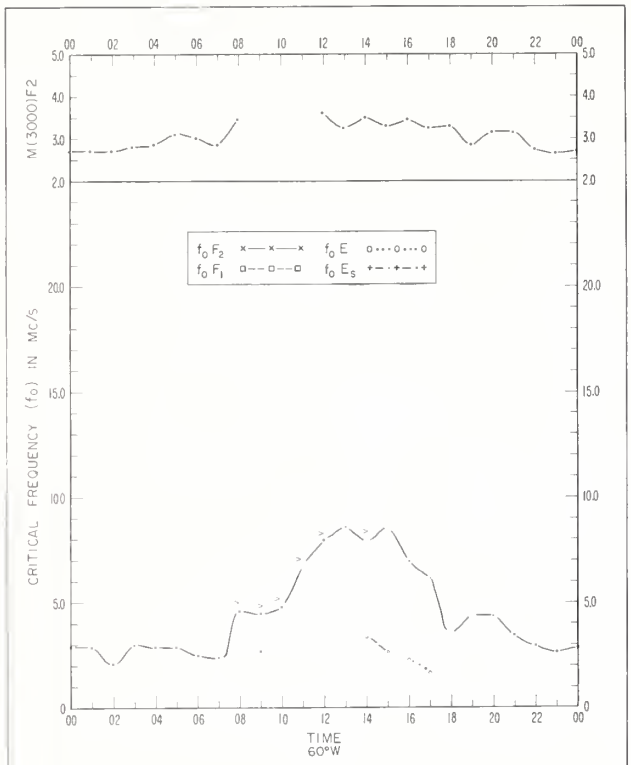

Fig 49 TRELEW, ARGENTINA
43.2°S, 65 3°W JULY 1961

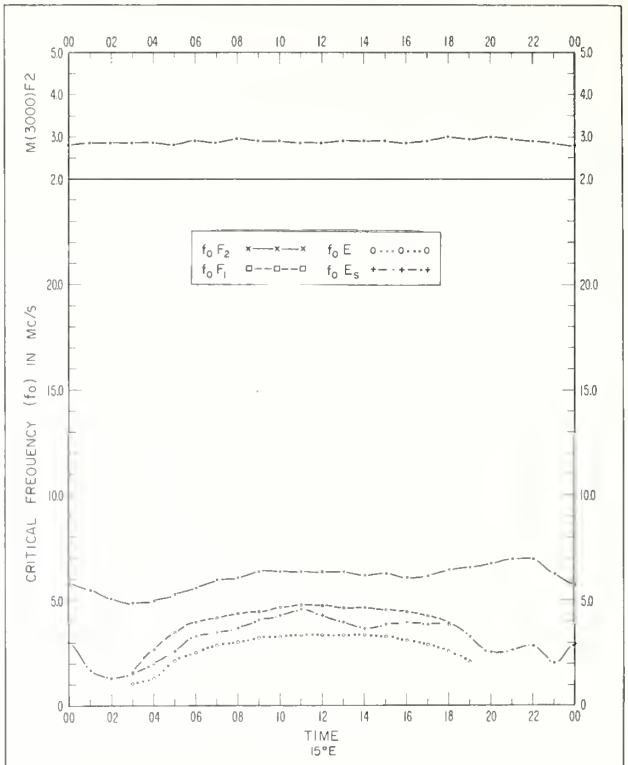

Fig 50. JULIUSRUH/RUGEN, GERMANY
54.6°N, 13.4°E JUNE 1961

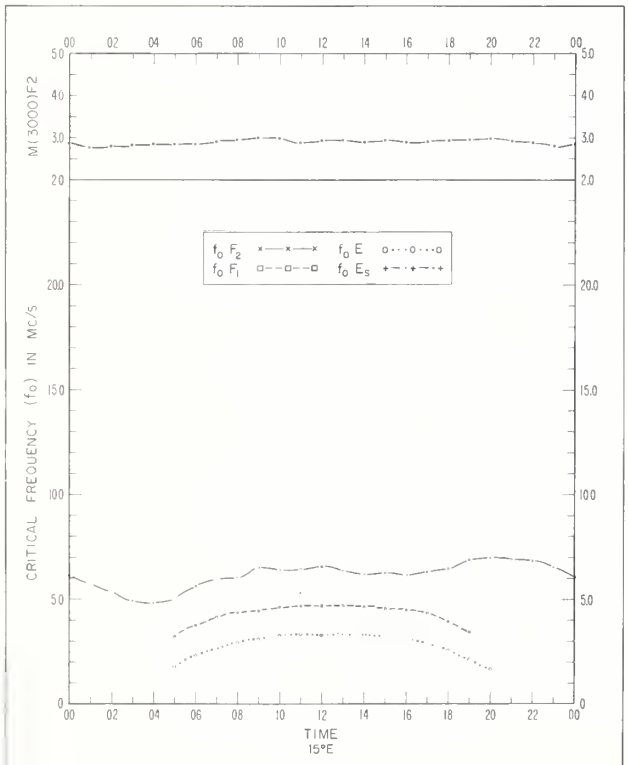

Fig 51 LINDAU/HARZ, GERMANY
51 6°N, 10 1°E JUNE 1961

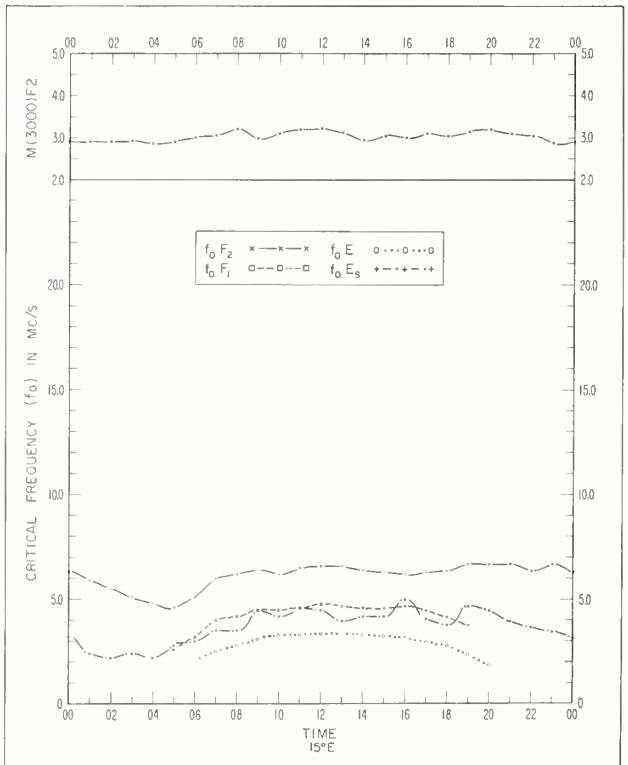

Fig. 52 PARIS, FRANCE
48.1°N, 2.3°E JUNE 1961

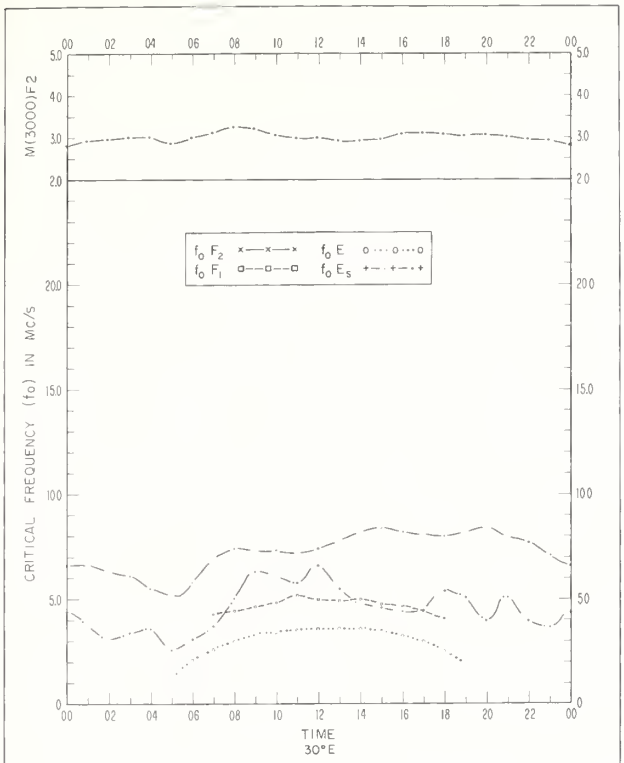

Fig. 53 ATHENS, GREECE
38.0°N, 23.6°E JUNE 1961

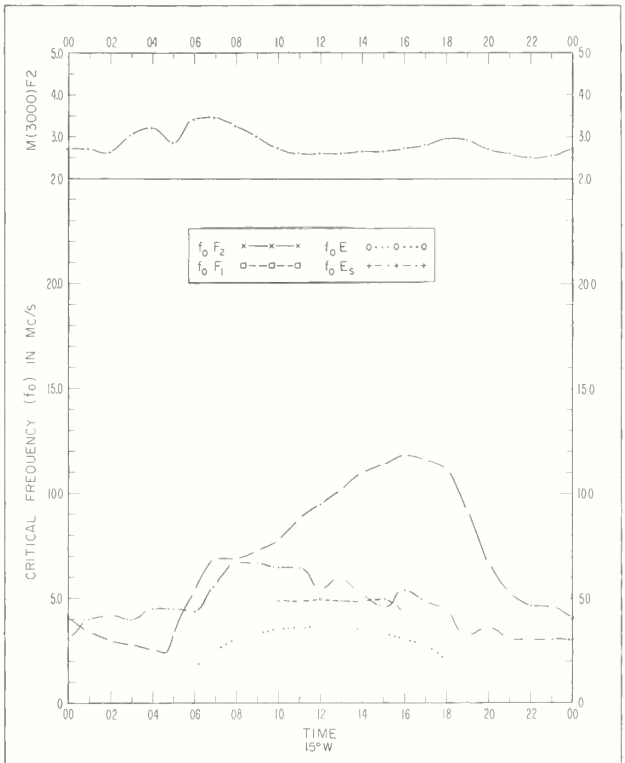

Fig 54. DAKAR, SENEGAL
14.8°N, 17.4°W JUNE 1961

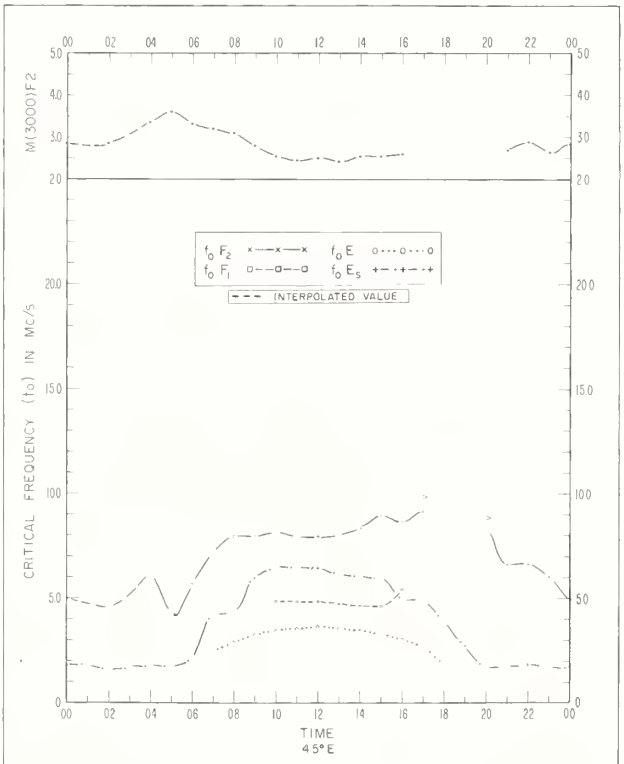

Fig. 55. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E JUNE 1961

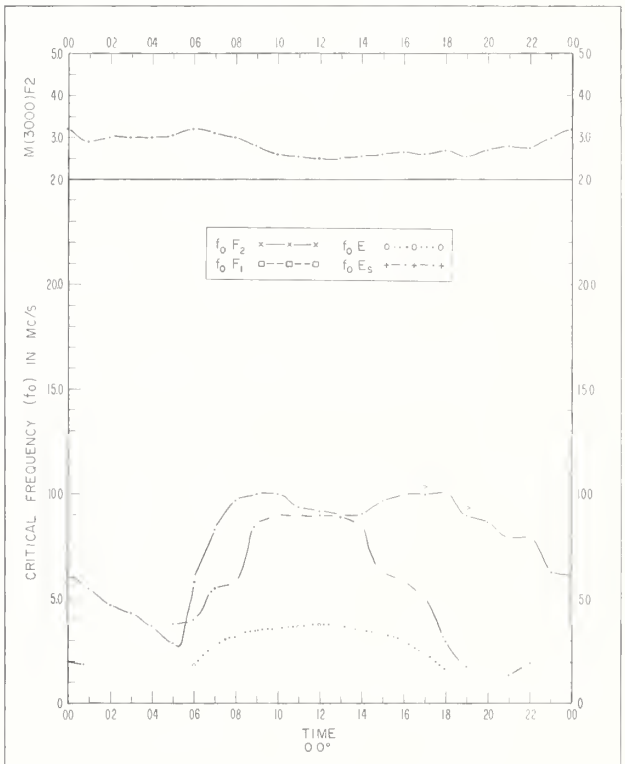

Fig. 56. IBADAN, NIGERIA
7.4°N, 3.9°E JUNE 1961

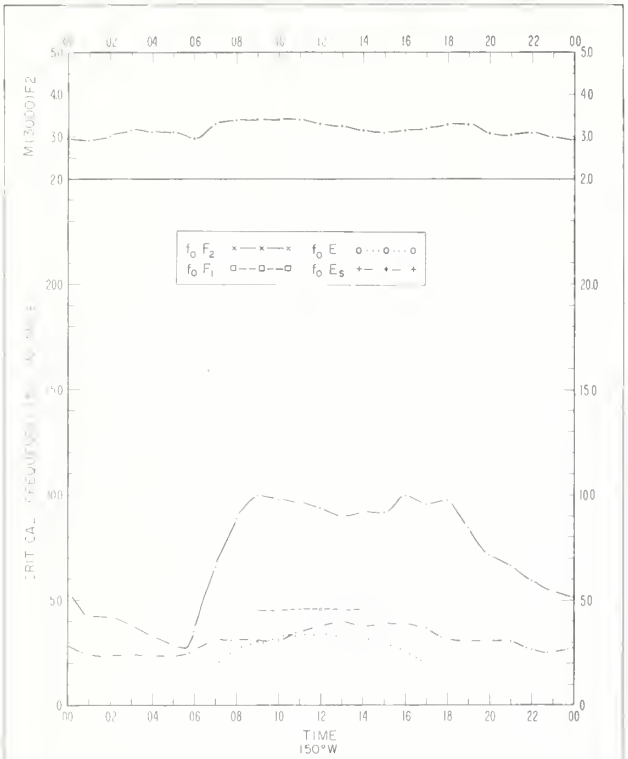

Fig 57 TAHITI, SOCIETY IS
17 7°S, 149 3°W
JUNE 1961

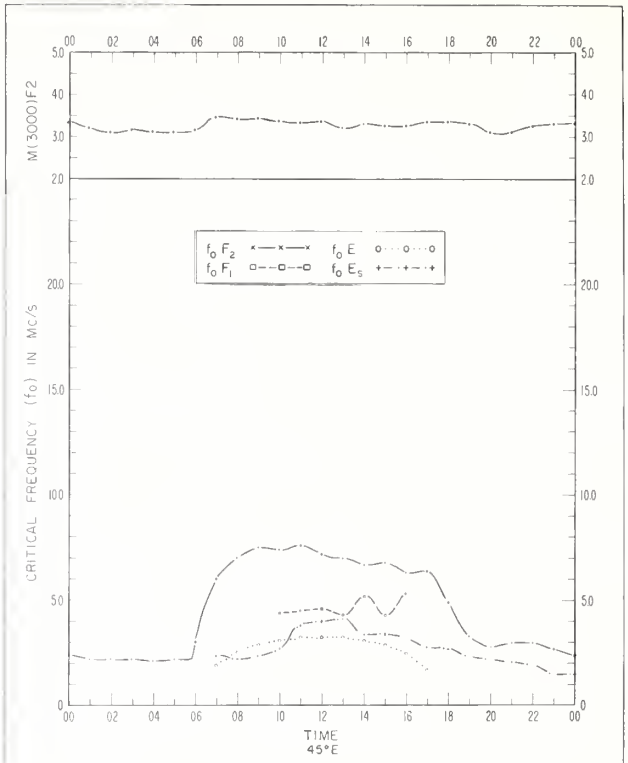

Fig 58 TANANARIVE, MALAGASY REPUBLIC
18 8°S, 47 5°E
JUNE 1961

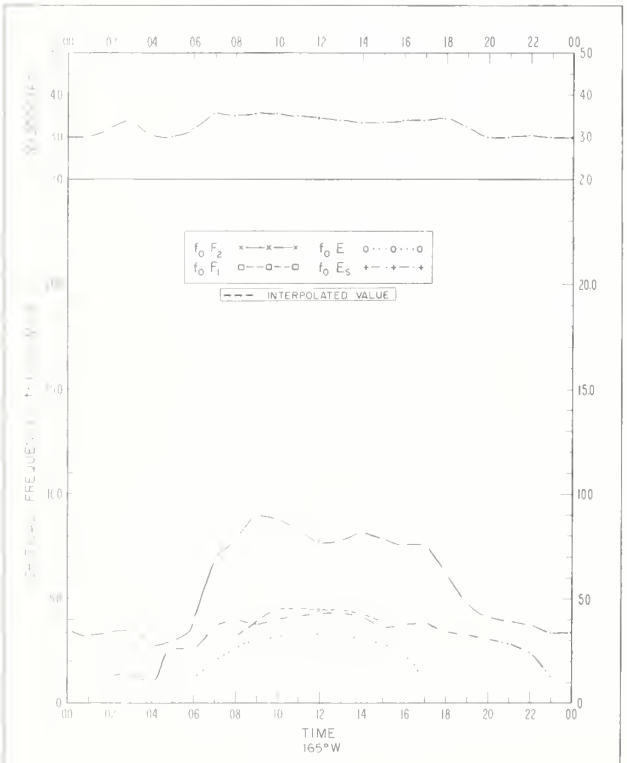

Fig 59 RAROTONGA, COOK IS
21 2°S, 159 8°W
JUNE 1961

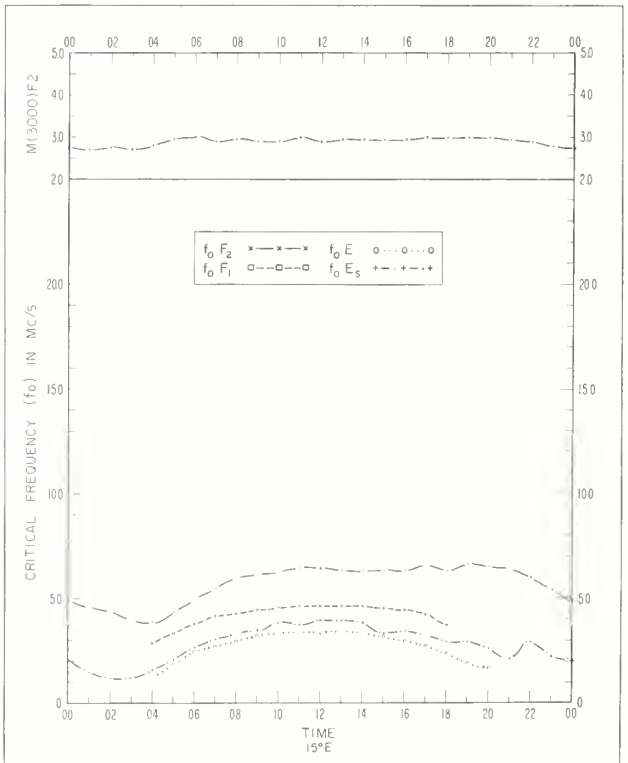

Fig 60 JULIUSRUH/RUGEN, GERMANY
54 6°N, 13.4°E
MAY 1961

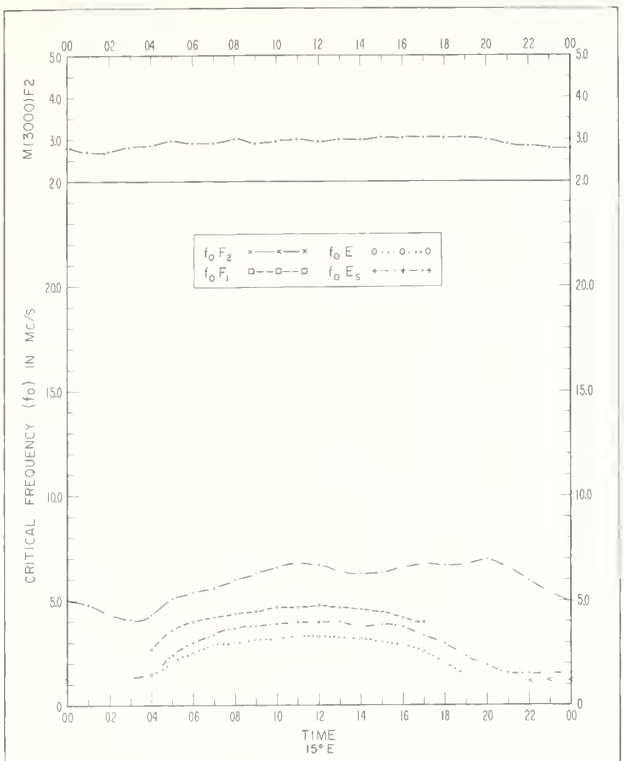

Fig 61 WARSAW, POLAND
52 2°N, 21 2°E
MAY 1961

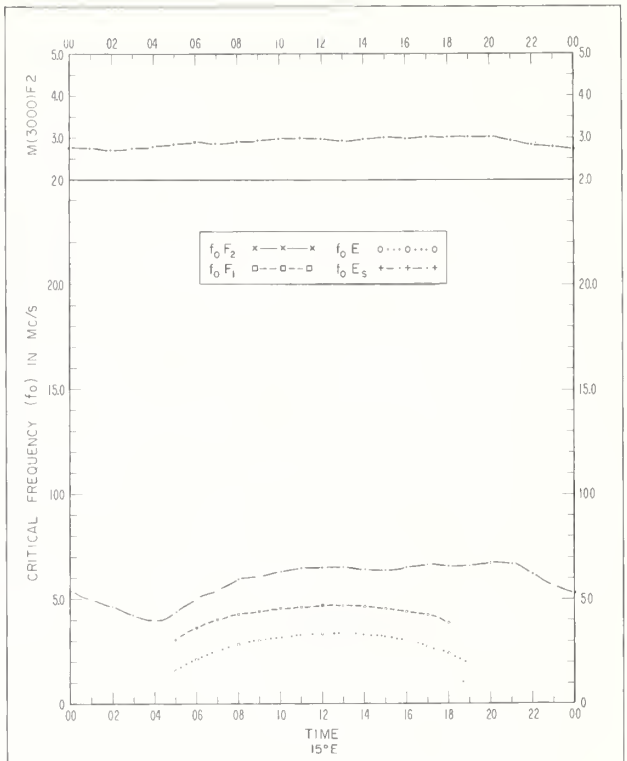

Fig. 62 LINDAU/HARZ, GERMANY
51 6°N, 10 1°E
MAY 1961

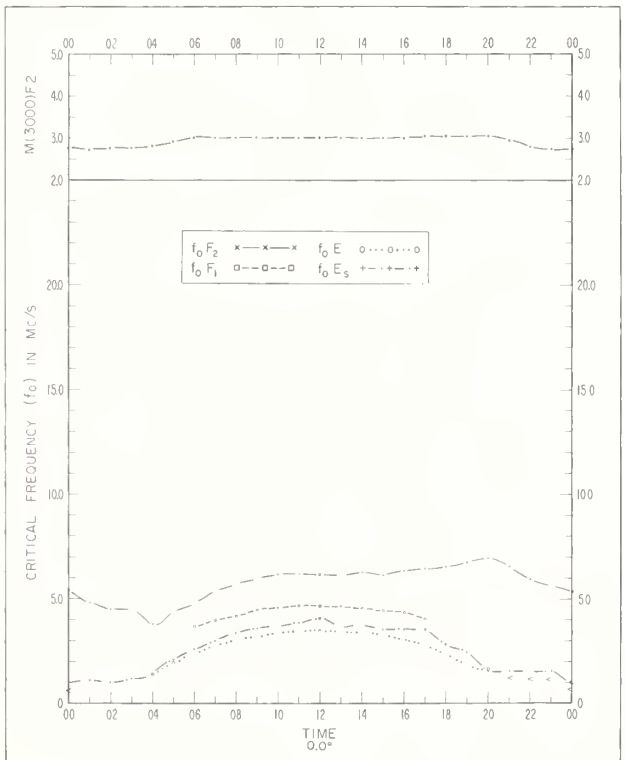

Fig 63. SLOUGH, ENGLAND
51.5°N, 0.6° W
MAY 1961

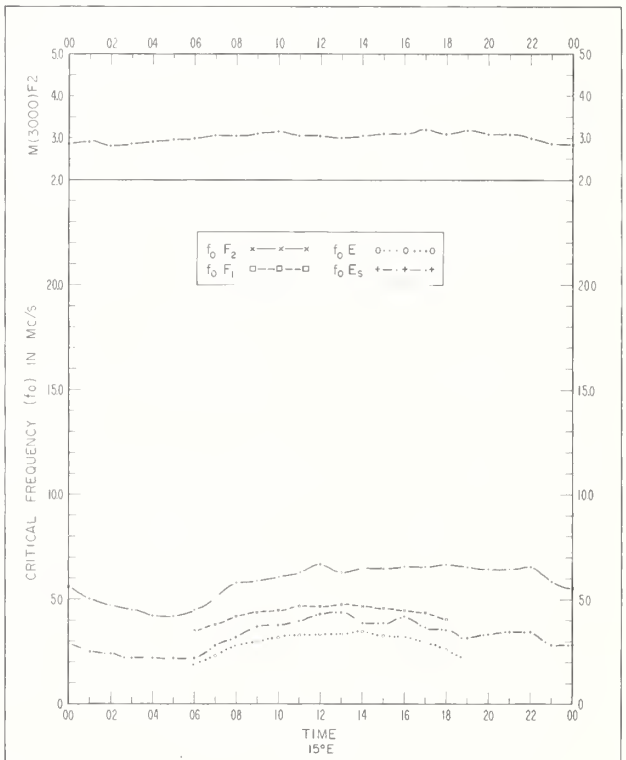

Fig. 64 PARIS, FRANCE
48.1°N, 2.3°E
MAY 1961

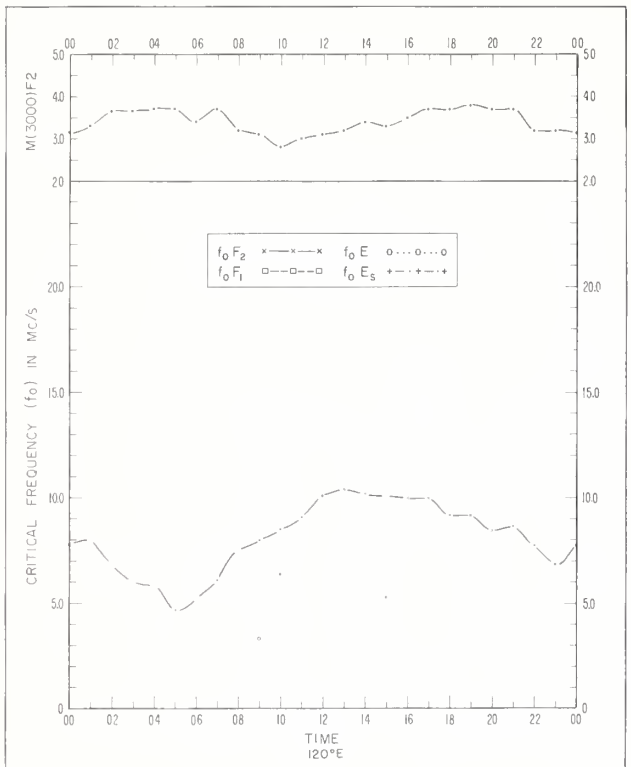

Fig 65 MACAU
22.2°N, 113.6°E MAY 1961

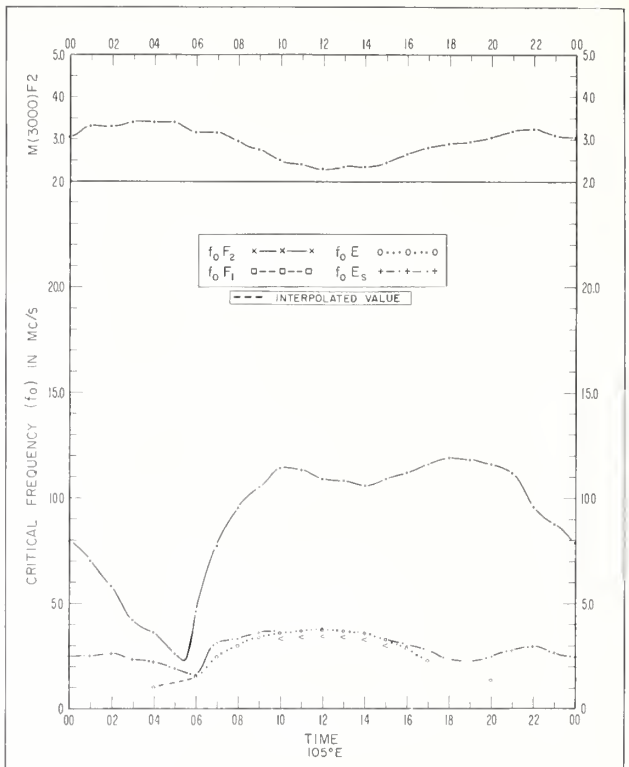

Fig 66. SINGAPORE, BRITISH MALAYA
1.3°N, 103.8°E MAY 1961

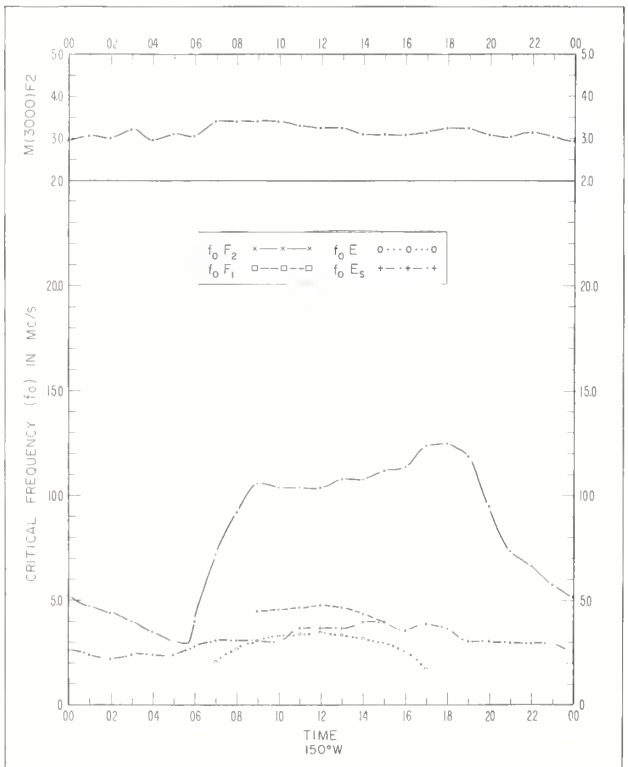

Fig. 67. TAHITI, SOCIETY IS.
17.7°S, 149 3°W MAY 1961

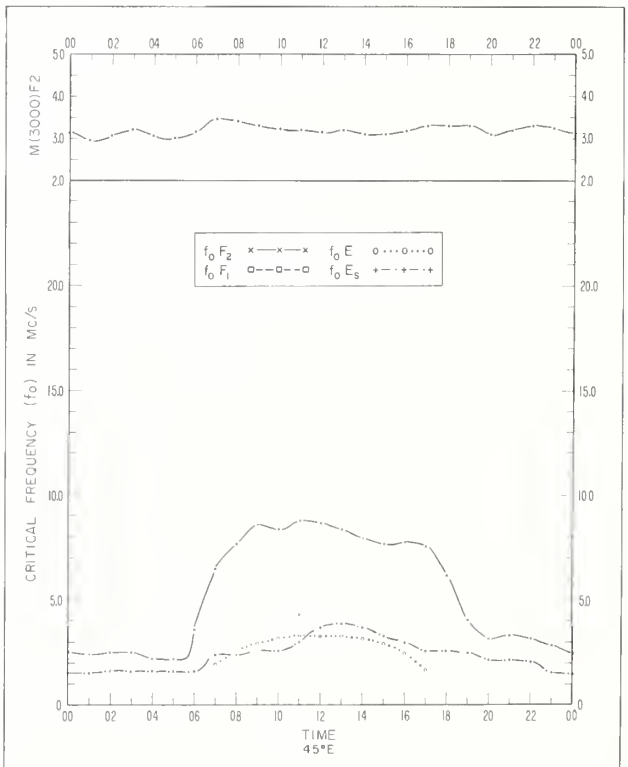

Fig 68. TANANARIVE, MALAGASY REPUBLIC
18.8°S, 47.5°E MAY 1961

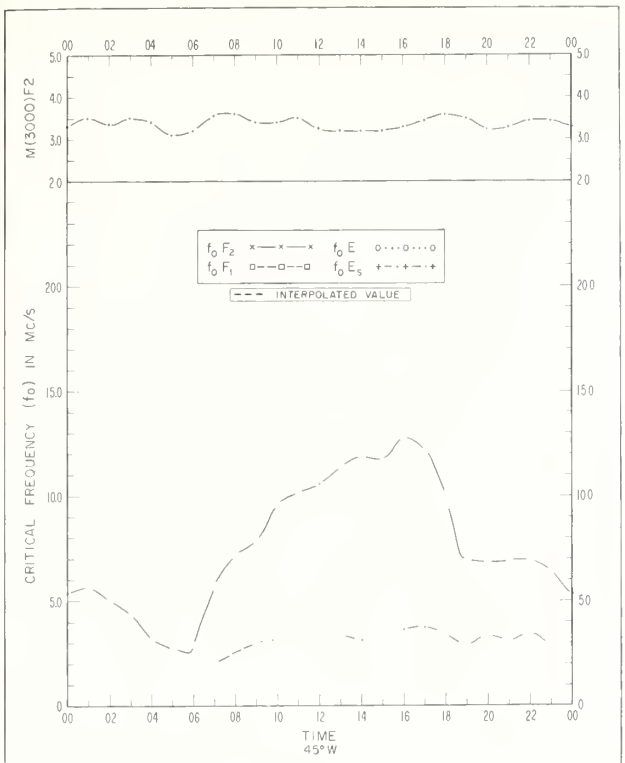

Fig 69 SAO PAULO, BRAZIL
23 5°S, 46.5°W MAY 1961

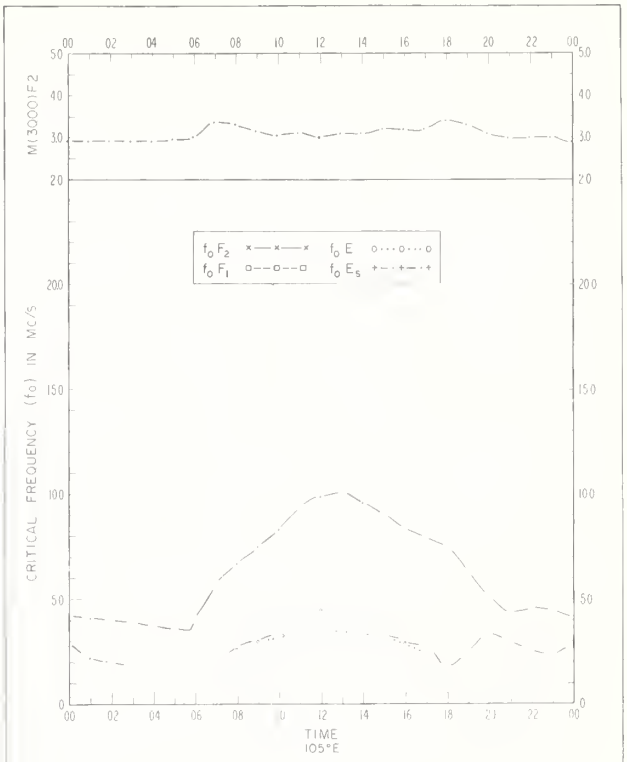

Fig 70 WHITE SANDS, NEW MEXICO
32.3°N, 106 5°W MARCH 1961

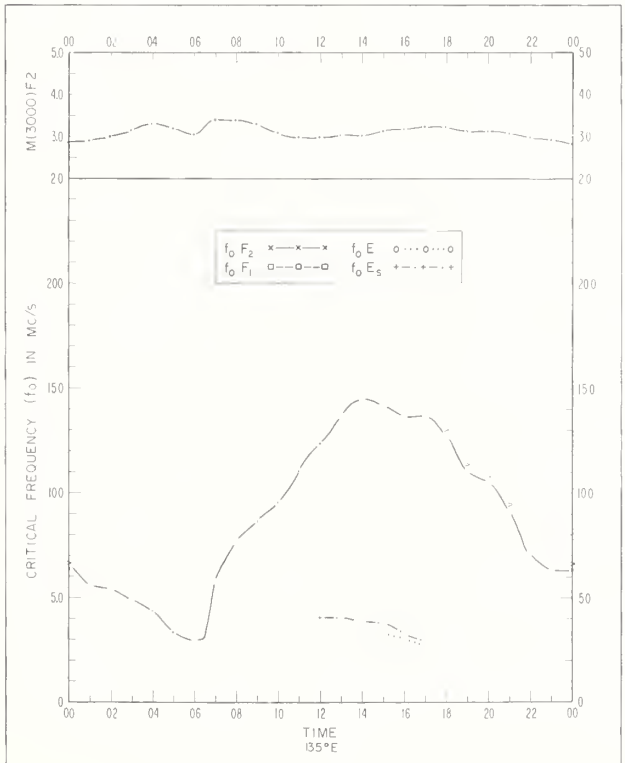

Fig. 71. OKINAWA I.
26.3°N, 127.8°E MARCH 1961

Fig 72. LEOPOLDVILLE, CONGO
4 4°S, 15.2°E MARCH 1961

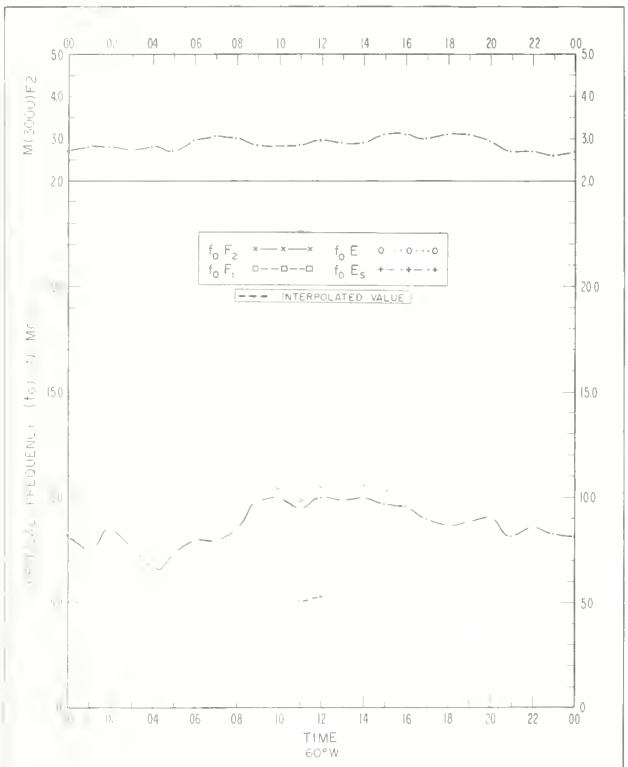

Fig 73 TRELEW, ARGENTINA
43.2°S, 65.3°W
JANUARY 1961

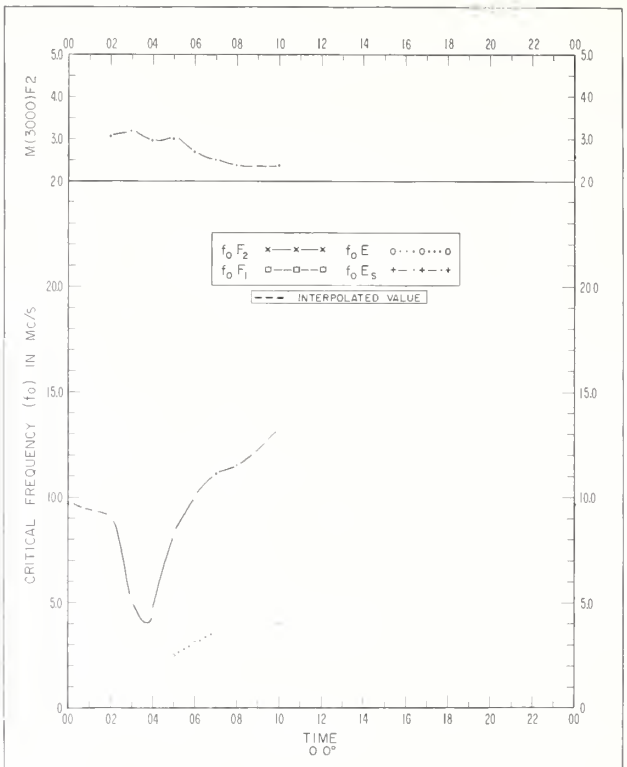

Fig 74 BUNIA, CONGO
1.5°N, 30.2°E
NOVEMBER 1960

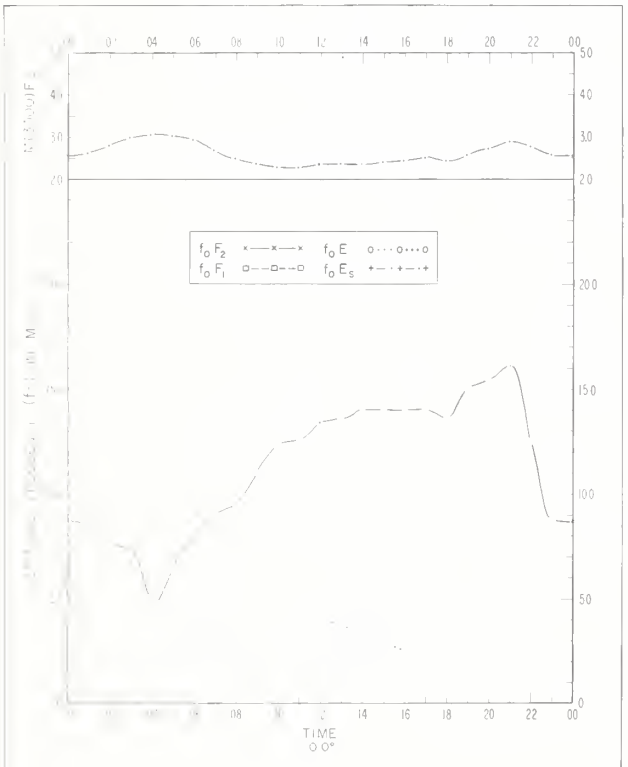

Fig 75 LEOPOLDVILLE, CONGO
4.4°S, 15.2°E
NOVEMBER 1960

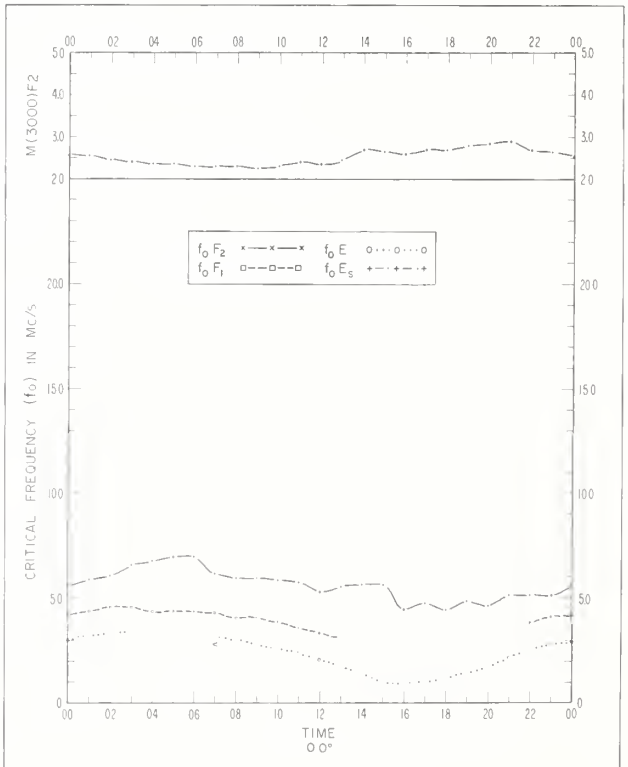

Fig 76 WILKES STATION, ANTARCTICA
66.3°S, 110.5°E
NOVEMBER 1960

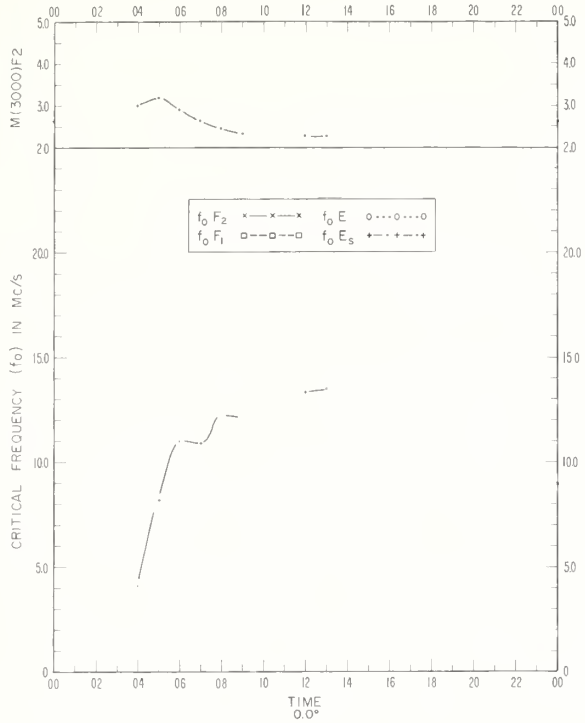

Fig 77 BUNIA, CONGO
1 5°N, 30 2°E OCTOBER 1960

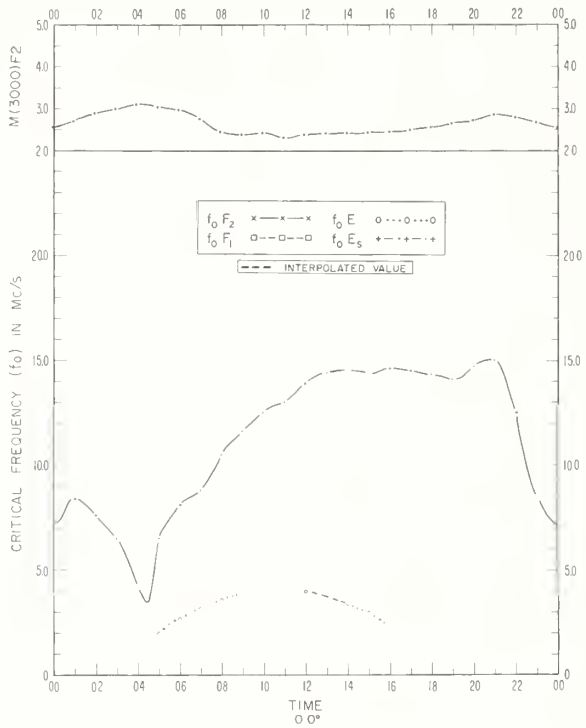

Fig. 78. LEOPOLDVILLE, CONGO
4 4°S, 15.2°E OCTOBER 1960

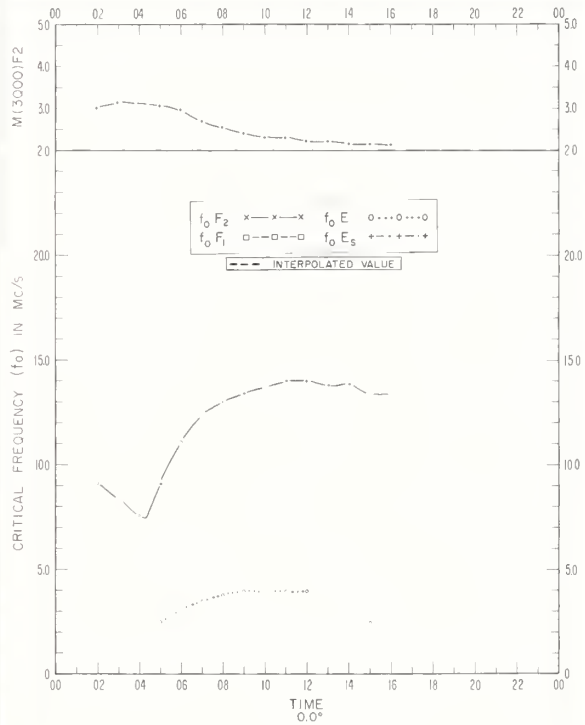

Fig. 79. BUNIA, CONGO
1.5°N, 30 2°E SEPTEMBER 1960

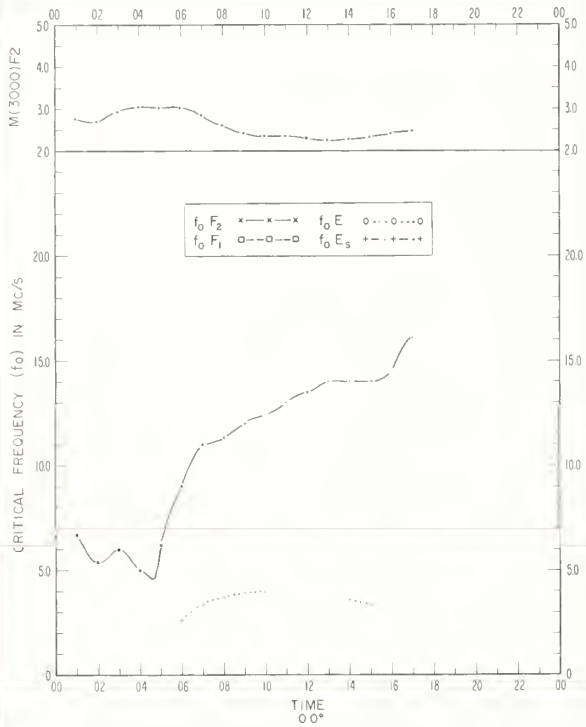

Fig 80 LEOPOLDVILLE, CONGO
4.4°S, 15 2°E SEPTEMBER 1960

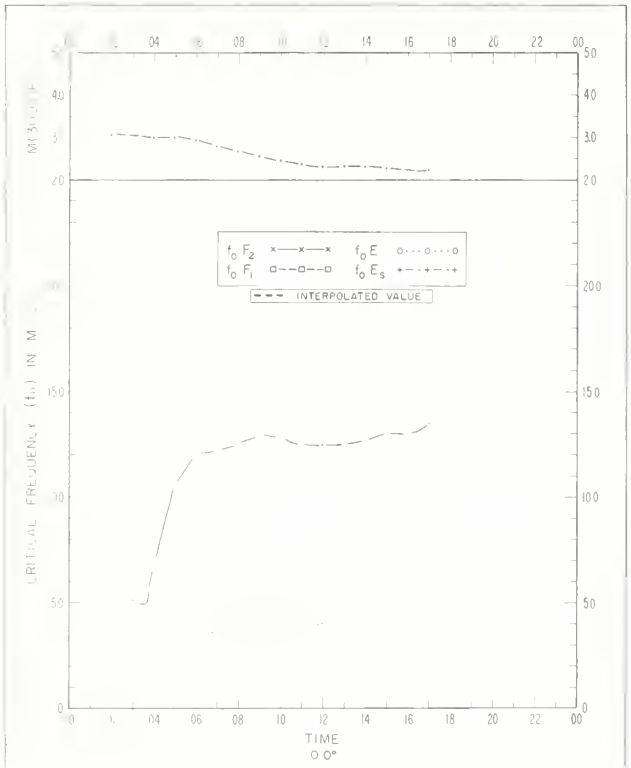

Fig 81 BUNIA, CONGO
1 5°N, 30 2°E
AUGUST 1960

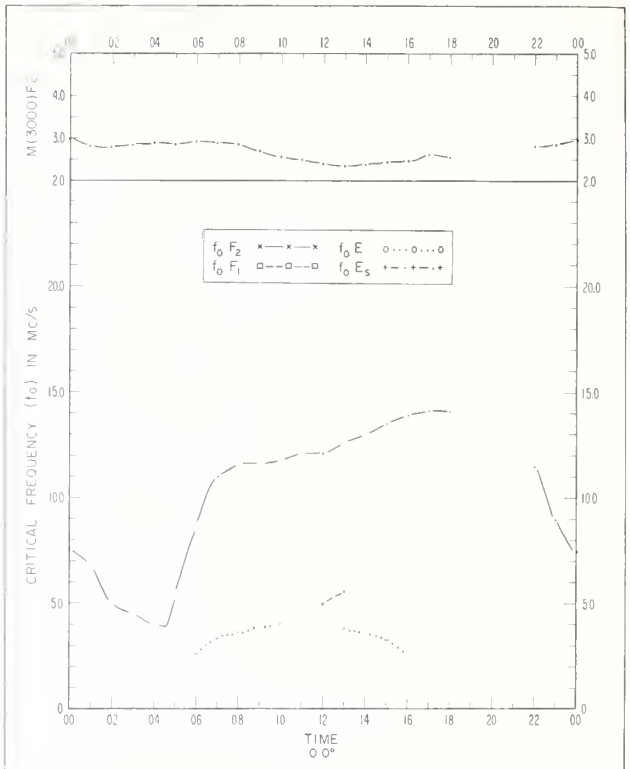

Fig 82 LEOPOLDVILLE, CONGO
4 4°S, 15 2°E
AUGUST 1960

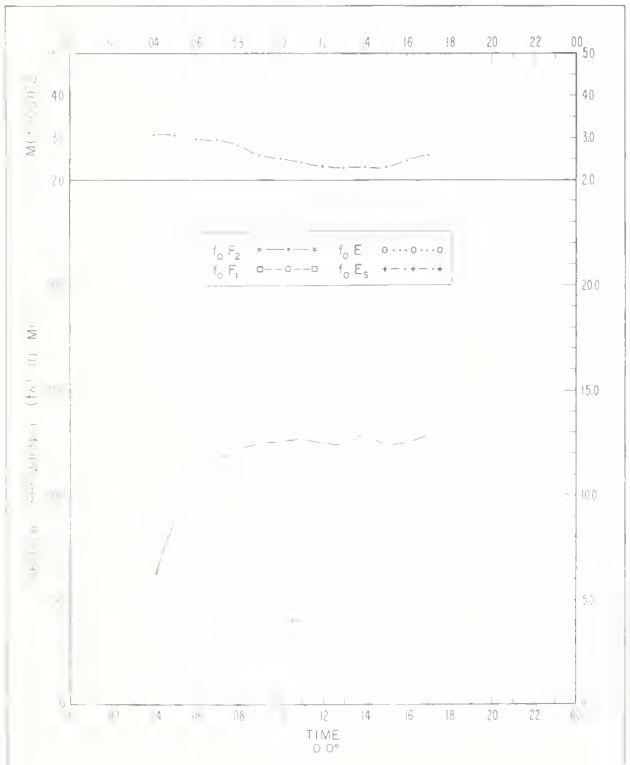

Fig 83 BUNIA, CONGO
1 5°N, 30 2°E
JULY 1960

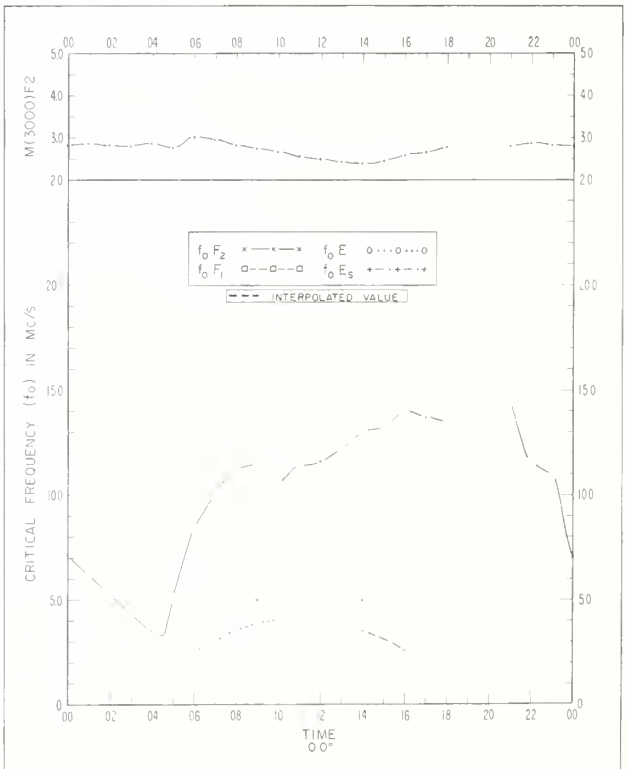

Fig 84 LEOPOLDVILLE, CONGO
4.4°S, 15 2°E
JULY 1960

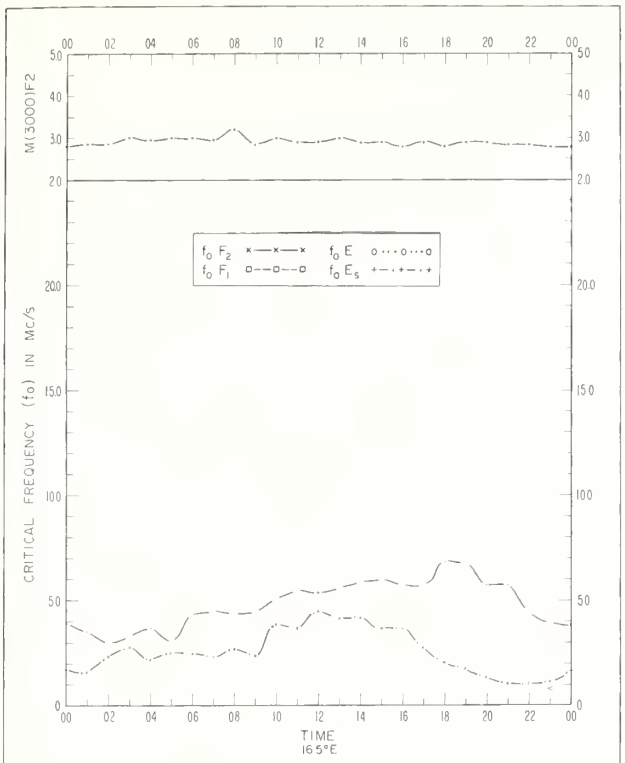

Fig 85. CAPE HALLETT, ANTARCTICA
72.3°S, 170.2°E JUNE 1960

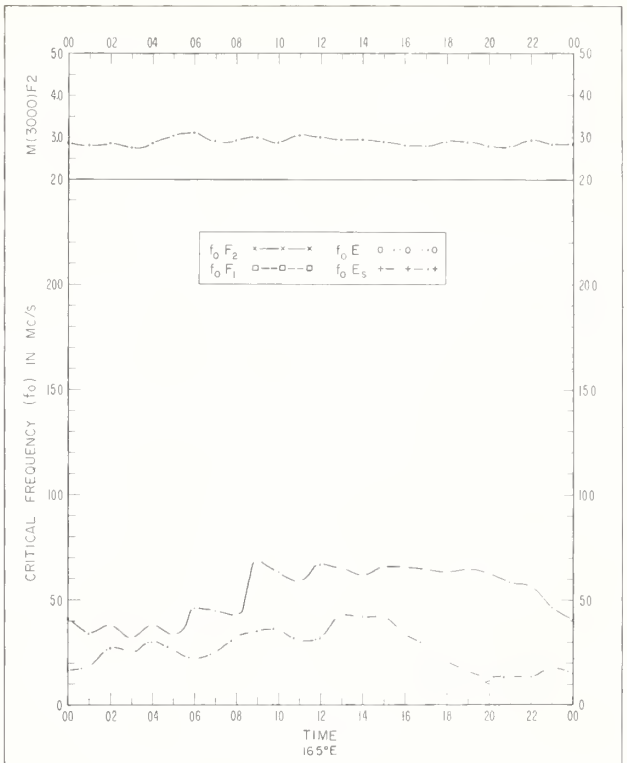

Fig 86 CAPE HALLETT, ANTARCTICA
72.3°S, 170 2°E MAY 1960

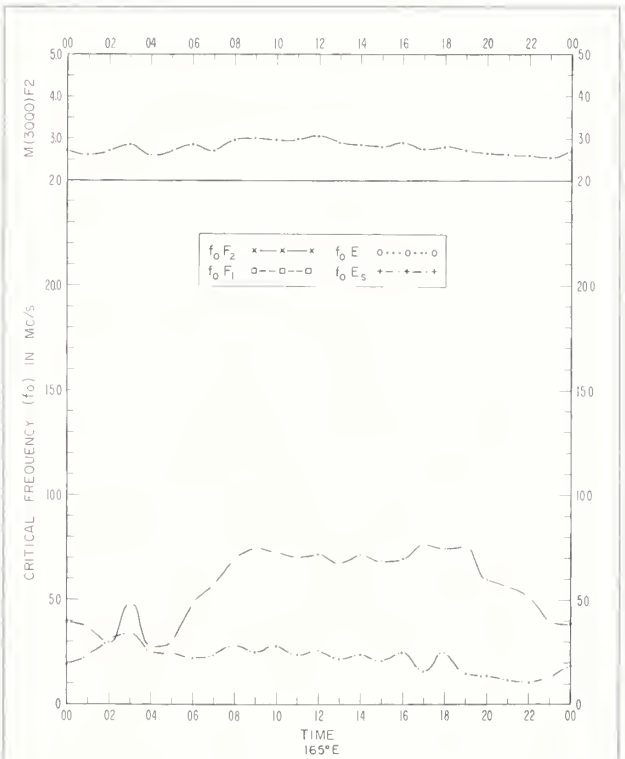

Fig 87. CAPE HALLETT, ANTARCTICA
72.3°S, 170 2°E APRIL 1960

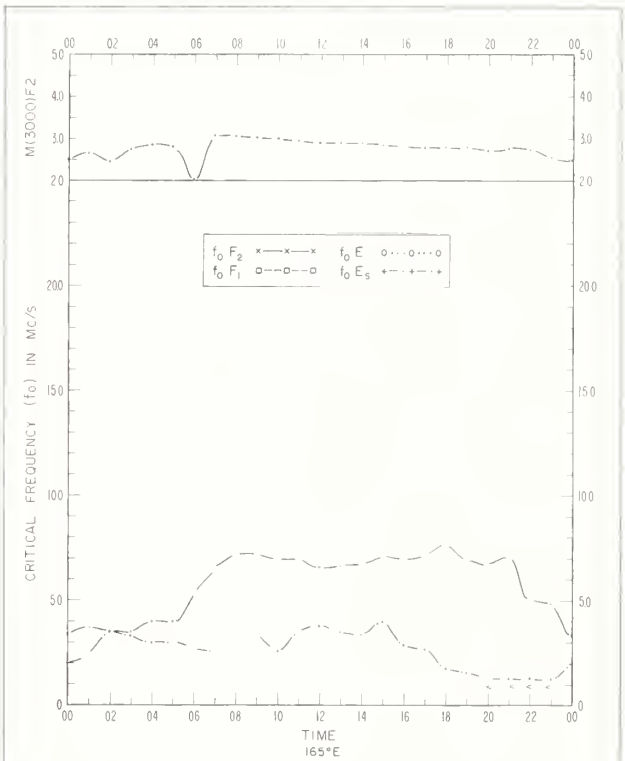

Fig 88. CAPE HALLETT, ANTARCTICA
72 3°S, 170.2°E MARCH 1960

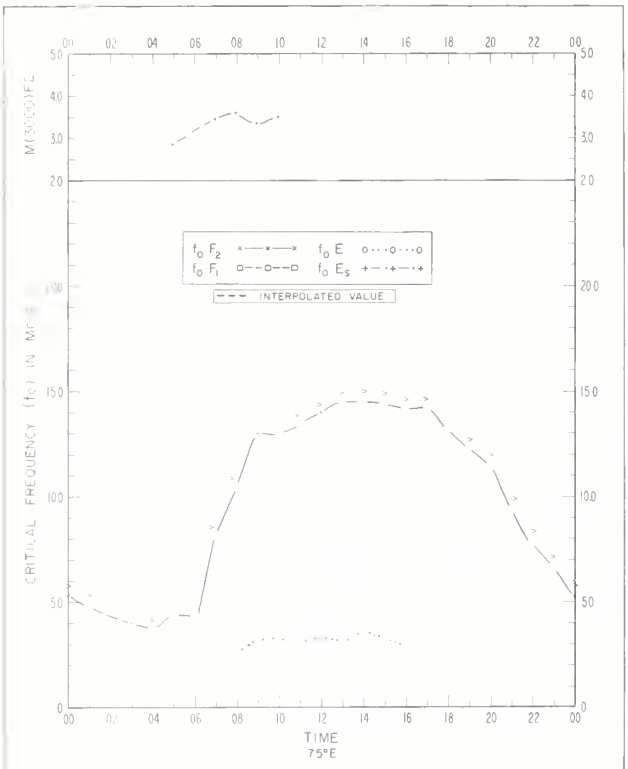

Fig 89 DELHI, INDIA
28 6°N, 77 2°E FEBRUARY 1960

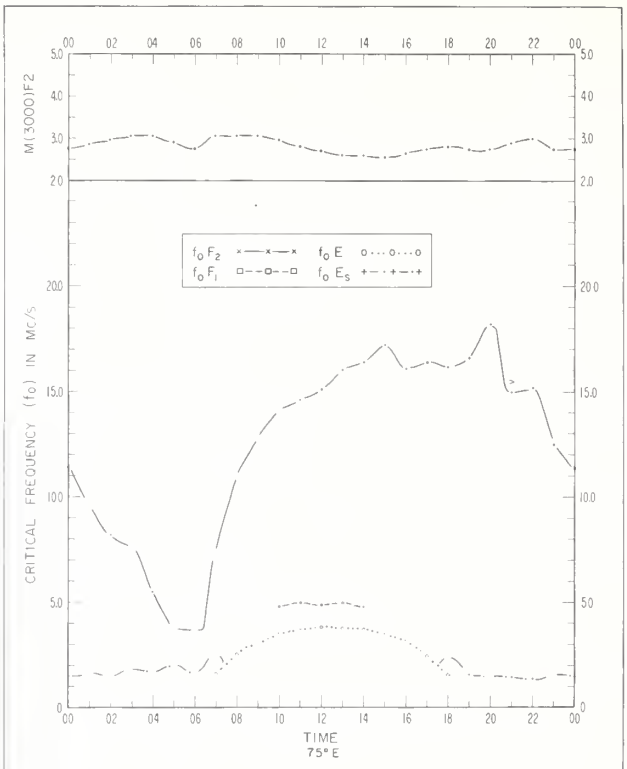

Fig 90. AHMEDABAD, INDIA
23 0°N, 72 6°E FEBRUARY 1960

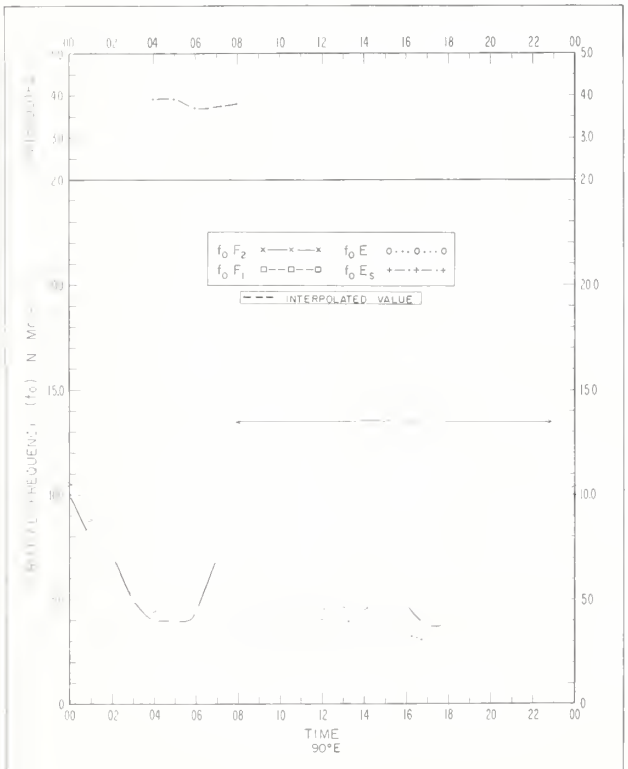

Fig 91 CALCUTTA, INDIA
23 0°N, 88 6°E FEBRUARY 1960

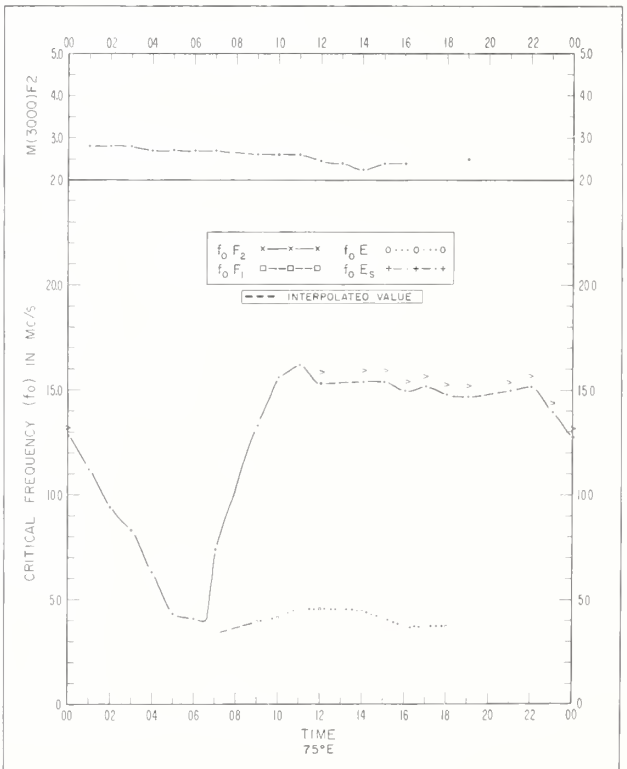

Fig 92 BOMBAY, INDIA
19 0°N, 72 8°E FEBRUARY 1960

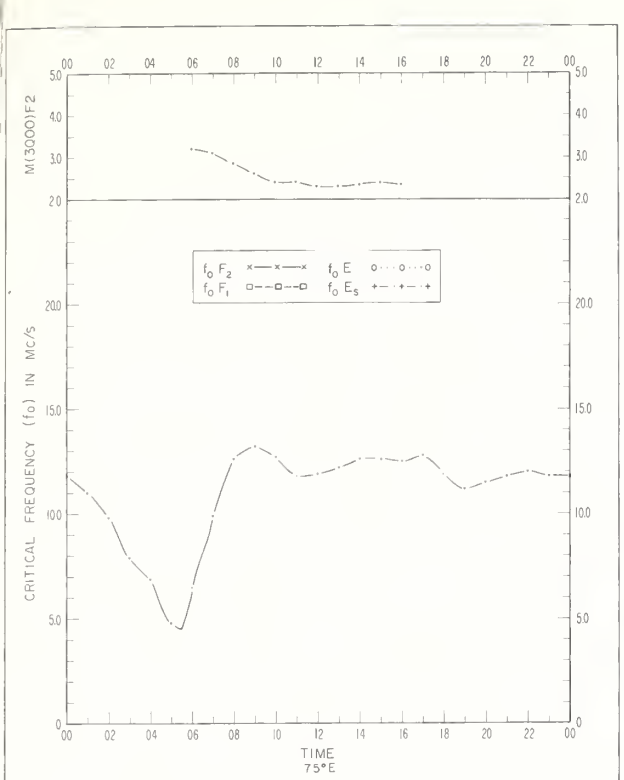

Fig. 93 MADRAS, INDIA
13.1°N, 80.3°E
FEBRUARY 1960

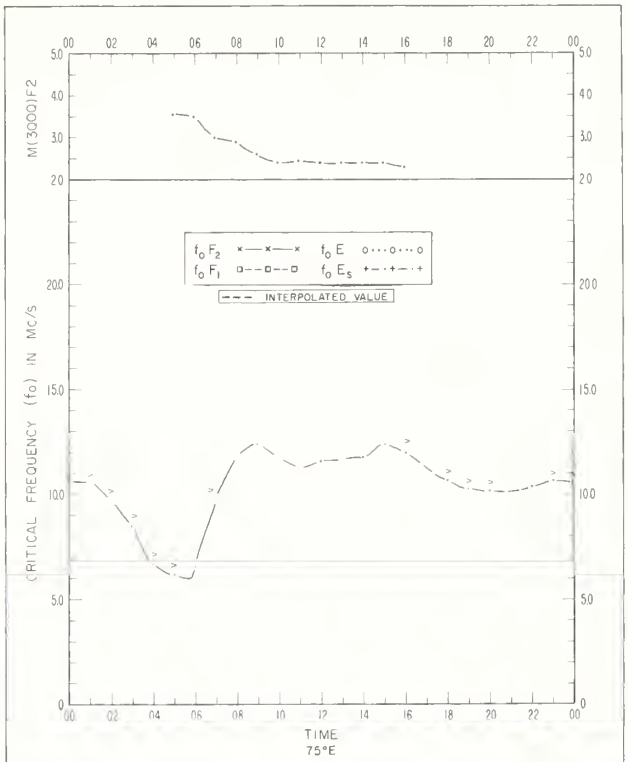

Fig. 94 TIRUCHY, INDIA
10.8°N, 78.7°E
FEBRUARY 1960

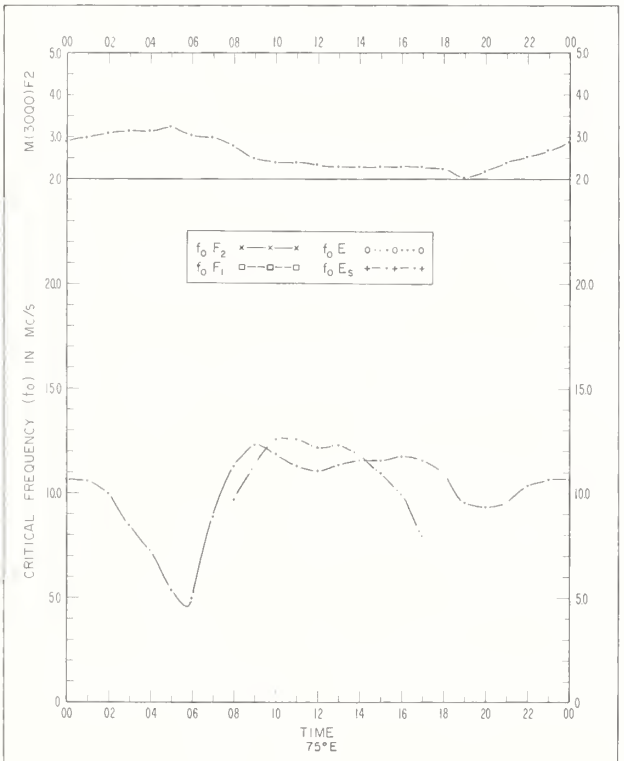

Fig. 95 KODAIKANAL, INDIA
10.2°N, 77.5°E
FEBRUARY 1960

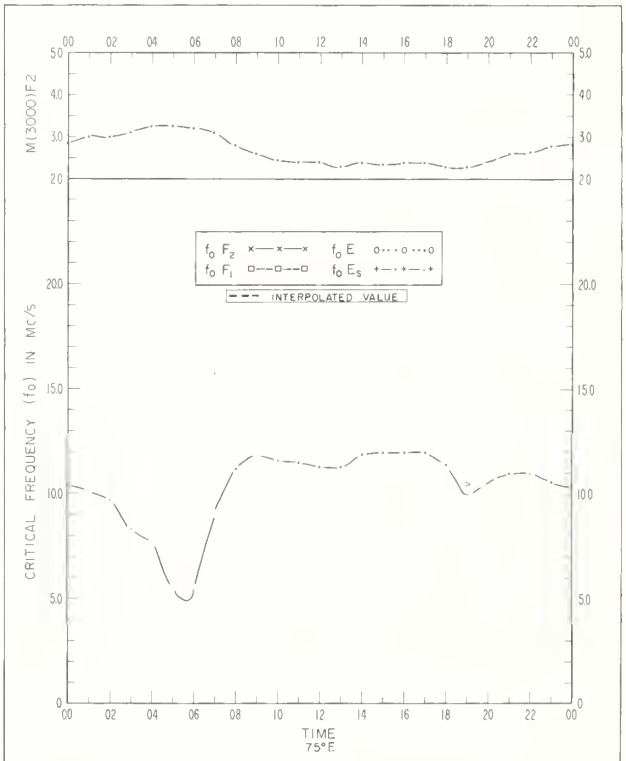

Fig 96. TRIVANDRUM, INDIA
8.5°N, 77.0°E
FEBRUARY 1960

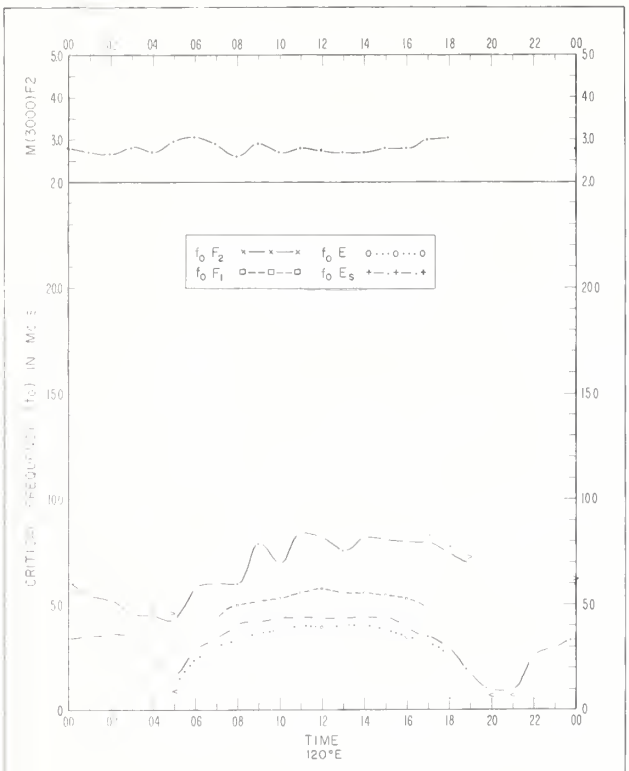

Fig. 97 MUNDARING, WESTERN AUSTRALIA
32 0°S, 116 2°E DECEMBER 1959

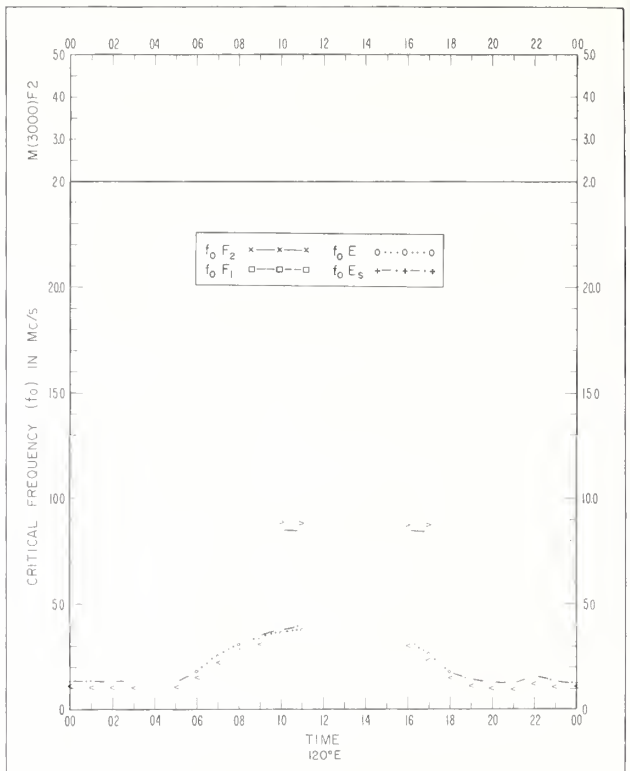

Fig 98. MUNDARING, WESTERN AUSTRALIA
32.0°S, 116.2°E SEPTEMBER 1959

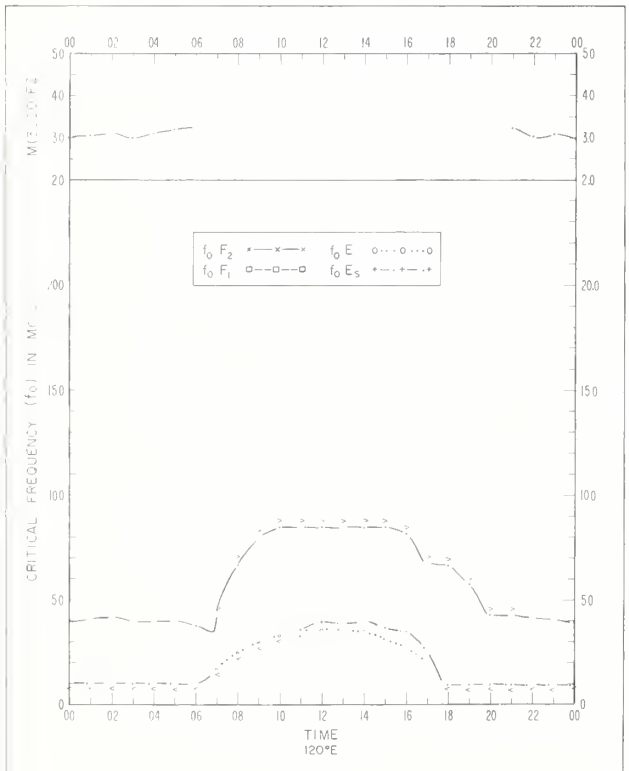

Fig. 99. MUNDARING, WESTERN AUSTRALIA
32 0°S, 116 2°E JUNE 1959

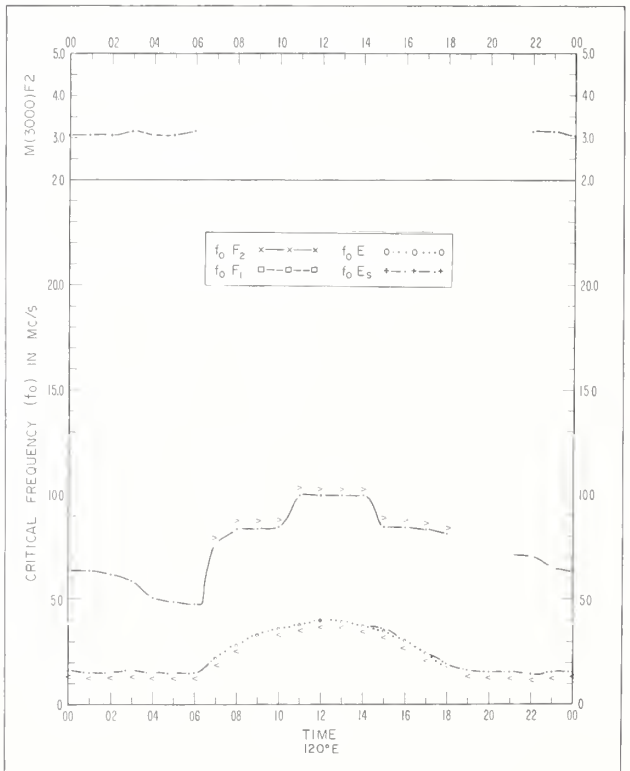

Fig 100. MUNDARING, WESTERN AUSTRALIA
32.0°S, 116 2°E APRIL 1959

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BAGUIO, LUZON	1961	SEPT.	10	35
	1961	NOV.	5	30
	1962	OCT.	1	26
	1962	NOV.	1	26
BOMBAY, INDIA	1960	FEB.	23	48
BRISBANE, AUSTRALIA	1961	NOV.	6	31
BUNIA, CONGO	1960	JULY	21	46
	1960	AUG.	21	46
	1960	SEPT.	20	45
	1960	OCT.	20	45
	1960	NOV.	19	44
CALCUTTA, INDIA	1960	FEB.	23	48
CANBERRA, AUSTRALIA	1961	NOV.	6	31
CAPE HALLETT, ANTARCTICA	1960	MAR.	22	47
	1960	APR.	22	47
	1960	MAY	22	47
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CAPETOWN, UNION OF S. AFRICA	1961	NOV.	6	31
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IBADAN, NIGERIA	1961	JUNE	14	39
	1961	OCT.	8	33
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	1961	JUNE	13	38
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PRUHONICE, CZECHOSLOVAKIA	1961	SEPT.	9	34
RAROTONGA, COOK IS.	1961	JUNE	15	40
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