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CRPL-F 222 PART A

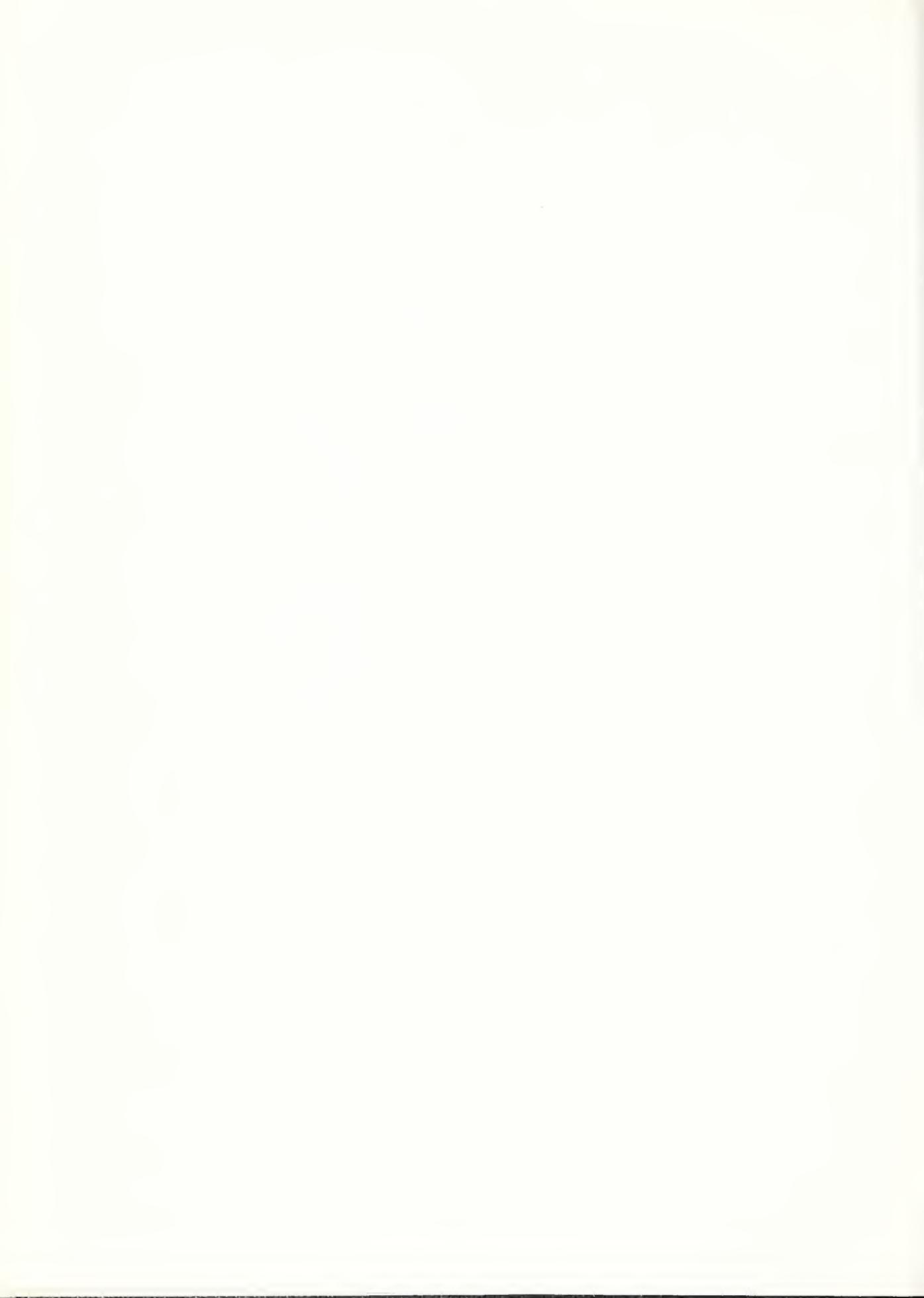
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PART A
IONOSPHERIC DATA

ISSUED
FEBRUARY 1963

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



IONOSPHERIC DATA

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Unbacked copies of the graphs and charts printed in the F, Part A series, are available (beginning with the August 1962 issue) at the World Data Center A for Airglow and Ionosphere, National Bureau of Standards, Boulder, Colorado.

IONOSPHERIC DATA

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

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

Beginning with this issue, CRPL-F221, Part A, "Ionospheric Data," the hourly median values for the graphs of critical frequencies and M(3000)F2 are plotted by machine methods instead of manually, as heretofore. 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. This change was necessary to provide space for the enlarged tables. Data on percentage of time of occurrence of fEs above 3, 5, and 7 Mc are still available from the CRPL and the IGY World Data Center A for Airglow and Ionosphere.

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

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

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

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

Smoothed Observed Zurich Sunspot Number

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1954				3	4	4	5	7	8	8	9	12
1955	14	16	19	23	29	35	40	46	55	64	73	81
1956	89	98	109	119	127	137	146	150	151	156	160	164
1957	170	172	174	181	186	188	191	194	197	200	201	200
1958	199	201	201	197	191	187	185	185	184	182	181	180
1959	179	177	174	169	165	161	156	151	146	141	137	132
1960	129	125	122	120	117	114	109	102	98	93	88	84
1961	80	75	69	64	60	56	53	52	52	51	50	48
1962	44	41	39	38	38	37	36					

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:

COMMONWEALTH OF AUSTRALIA, IONOSPHERIC PREDICTION SERVICE OF THE COMMONWEALTH OBSERVATORY.

BRISBANE, AUSTRALIA
TOWNSVILLE, AUSTRALIA

AUSTRALIAN DEPARTMENT OF NATIONAL DEVELOPMENT, BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS.

PORT MORESBY, PAPUA

BELGIAN ROYAL METEOROLOGICAL INSTITUTE.

DOURBES, BELGIUM

ELECTRONICS DIRECTORATE OF THE BRAZILIAN NAVY.

NATAL, BRAZIL

ESCOLA POLITECNICA, UNIVERSITY OF SAO PAULO.

SAO PAULO, BRAZIL

BRITISH DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RADIO RESEARCH BOARD.

IBADAN, NIGERIA
PORT LOCKROY, ANTARCTICA
SLOUGH, ENGLAND

DEFENCE RESEARCH BOARD, CANADA.

RESOLUTE BAY, CANADA
WINNIPEG, CANADA

UNIVERSIDAD DE CONCEPCION.

CONCEPCION, CHILE

DANISH NATIONAL COMMITTEE OF URSI.

GODHAVN, GREENLAND

IONOSPHERIC RESEARCH GROUP (GRI), FRANCE.

BANGUI, FRENCH EQUATORIAL AFRICA
DJIBOUTI, FRENCH SOMALILAND
PARIS, FRANCE
POITIERS, FRANCE
RABAT, MOROCCO
TAHITI, SOCIETY IS.
TAMANRASSET, ALGERIA
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

IONOSPHERIC INSTITUTE, BREISACH, GERMANY.

FREIBURG, GERMANY

ICELANDIC POST AND TELEGRAPH ADMINISTRATION.

REYKJAVIK, ICELAND

INDIAN COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH,
RADIO RESEARCH COMMITTEE, NEW DELHI, INDIA.

AHMEDABAD, INDIA

BOMBAY, INDIA

CALCUTTA, INDIA

DELHI, INDIA

KODAIKANAL, INDIA

MADRAS, INDIA

TIRUCHY, INDIA

TRIVANDRUM, INDIA

NATIONAL INSTITUTE OF GEOPHYSICS, CITY UNIVERSITY, ROME, ITALY.
ROME, ITALY

METEOROLOGICAL SERVICE, PROVINCE OF MACAU, ASIA.

MACAU

RESEARCH INSTITUTE OF NATIONAL DEFENCE, STOCKHOLM, SWEDEN.

UPPSALA, SWEDEN

UNITED STATES ARMY SIGNAL CORPS, UNITED STATES OF AMERICA

ADAK, ALASKA

GRAND BAHAMA I.

WHITE SANDS, NEW MEXICO

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

ANCHORAGE, ALASKA

FAIRBANKS, ALASKA

HUANCAYO, PERU

POINT BARROW, ALASKA

POLE STATION

TALARA, PERU

TABLE 14

Table with 24 columns (00-23) and 6 rows (6F2, 6F1, 6E, 6E, 6E, 6E). Title: TOWNVILLE, AUSTRALIA. Includes sub-headers for HOUR and various data points.

TABLE 15

Table with 24 columns (00-23) and 6 rows (6F2, 6F1, 6E, 6E, 6E, 6E). Title: WHITE SANDS, NEW ZEALAND. Includes sub-headers for HOUR and various data points.

SEPTEMBER 1961

SWEEP 1.0 MC TO 25.0 MC IN 1 MINUTE 35 SECONDS.

SEPTEMBER 1961

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

TABLE 16

Table with 24 columns (00-23) and 6 rows (6F2, 6F1, 6E, 6E, 6E, 6E). Title: GODHAVN, GREENLAND. Includes sub-headers for HOUR and various data points.

TABLE 17

Table with 24 columns (00-23) and 6 rows (6F2, 6F1, 6E, 6E, 6E, 6E). Title: CONCEPCION, CHILE. Includes sub-headers for HOUR and various data points.

AUGUST 1961

SWEEP 1.0 MC TO 25.0 MC IN 15 SECONDS.

AUGUST 1961

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

TABLE 24

PORT MESSERSY		(19.05.1974.15)											TIME 19.04.02										
00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16 F2	MED CNT	3	4	3	5	24	24	25	37	70													
	UO																						
	LO																						
16 F2	MED CNT																						
	UO																						
	LO																						
16 F	MED CNT	4	4	5	3	2	4	5	5	3	3	1	4	2	2	22	24	20	400	200	400	200	240
	UO																						
	LO																						
M13000IF2	MED CNT	2	3	3	4	23	32	32	31	4	3	3	4	4	4	2	6	1	5	1	1	2	1
	UO																						
	LO																						
16 FI	MED CNT																						
	UO																						
	LO																						
16 E	MED CNT																						
	UO																						
	LO																						
16 E	MED CNT																						
	UO																						
	LO																						

SHEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

MAY, 1961

TABLE 25

FREIBURG, GERMANY		(19.05.1974.15)											TIME 19.04.02										
00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16 F2	MED CNT	55	50	47	44	44	32	38	39	52	63	68	69	68	67	67	66	68	71	74	71	84	50
	UO																						
	LO																						
16 F2	MED CNT	49	46	43	39	39	32	30	28	50	60	63	62	63	64	61	65	68	67	65	60	66	50
	UO																						
	LO																						
16 F2	MED CNT	58	54	51	48	48	37	61	66	68	71	72	74	75	74	72	72	76	76	75	67	62	60
	UO																						
	LO																						
16 F	MED CNT	285	240	264	260	268	230	435	445	410	442	405	410	210	420	420	421	430	232	425	420	420	236
	UO																						
	LO																						
M13000IF2	MED CNT	274	257	275	277	286	286	499	495	300	290	298	296	300	342	303	304	304	362	340	424	486	282
	UO																						
	LO																						
16 FI	MED CNT	359	300	340	340	320	340	330	335	330	315	310	305	330	315	310	305	484	470				
	UO																						
	LO																						
16 E	MED CNT	17	26	27	28	27	24	20	25	21	21	24	26	25	21	21	24	26	25	29	27	19	11
	UO																						
	LO																						
16 E	MED CNT	115	109	105	103	103	103	103	103	103	103	105	107	109	119	119	119	119	119	119	119	119	119
	UO																						
	LO																						
16 E	MED CNT	14	14	15	14	18	24	30	33	34	37	41	40	40	39	38	37	37	34	32	27	40	20
	UO																						
	LO																						

SHEEP 1.25 MC TO 20.0 MC IN 3 MINUTES.

MAY, 1961

TABLE 27

POLE STATION		(19.05.1974.15)											TIME 19.04.02										
00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16 F2	MED CNT	112	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
	UO																						
	LO																						
16 F2	MED CNT	24	20	19	25	21	19	20	19	13	14	13	17	17	18	16	16	16	16	16	16	16	16
	UO																						
	LO																						
16 F2	MED CNT	36	39	45	50	52	43	36	41	38	38	37	40	37	41	46	44	44	44	44	44	44	44
	UO																						
	LO																						
16 F2	MED CNT	305	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315
	UO																						
	LO																						
16 F	MED CNT	250	250	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
	UO																						
	LO																						
M13000IF2	MED CNT	3175	310	3125	295	285	305	2925	470	470	305	3075	320	340	315	330	280	265	300	275	3425	430	300
	UO																						
	LO																						
16 FI	MED CNT	335	315	340	315	335	340	310	330	340	340	340	340	340	340	340	340	340	340	340	340	340	340
	UO																						
	LO																						
16 E	MED CNT	2	2	1																			
	UO																						
	LO																						
16 E	MED CNT	3	2	1																			
	UO																						
	LO																						

SHEEP 1.45 MC TO 25.0 MC IN 134.5 SECONDS.

MAY, 1961

TABLE 28

FREIBURG, GERMANY		(19.05.1974.15)											TIME 19.04.02										
00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16 F2	MED CNT	48	46	42	41	39	63	52	58	61	68	69	71	76	75	74	74	75	75	76	73	66	58
	UO																						
	LO																						
16 F2	MED CNT	30	30	30	30	29	30	30	28	29	30	29	29	30	28	30	29	30	30	30	29	30	29
	UO																						
	LO																						
16 F2	MED CNT	365	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315
	UO																						
	LO																						
16 F	MED CNT	288	285	280	270																		

TABLE 3C

AHMEDABAD, INDIA (123+0N, 74+0E)		PULSE STATION (190+0S)												TIME 0+0											
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
fF2	U	39	42	45	46	45	43	42	37	38	34	34	40	33	33	35	35	40	35	33	34	37	35	34	35
	MED	23	23	20	24	24	24	21	18	20	17	19	15	17	16	12	20	18	19	12	11	15	10	14	15
	CNT	20	29	29	28	25	29	29	27	28	19	17	15	14	14	12	20	18	19	12	11	15	10	14	15
	LO	31	37	36	44	42	36	37	33	32	31	32	34	30	30	31	32	36	35	27	28	34	31	28	34
fF2	U																								
	MED																								
	CNT																								
	LO																								
fF	U	245	445	240	240	265	270	265	475	3125	300	300	310	300	315	3075	309	310	317	345	480	424	475	250	
	MED	20	29	29	28	25	29	29	27	28	19	17	14	15	14	15	24	23	17	17	15	18	17	24	
	CNT	20	29	29	28	25	29	29	27	28	19	17	14	15	14	15	24	23	17	17	15	18	17	24	
	LO	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	
M3000/F2	U	345	310	330	300	280	290	290	280	290	280	290	280	310	320	315	285	285	280	285	280	280	280	280	
	MED	13	13	12	17	15	16	14	11	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
	CNT	13	13	12	17	15	16	14	11	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
	LO	189	210	275	270	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	
fF1	U																								
	MED																								
	CNT																								
	LO																								
fE	U	1																							
	MED	1																							
	CNT	1																							
	LO																								
fE8	U	325	35	34	35	29	36	32	29	19	26	30	21	315	34	25	28	30	31	28	28	30	28	28	
	MED	31	31	31	31	29	31	31	31	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	
	CNT	31	31	31	31	29	31	31	31	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	
	LO																								

APRIL 1961

SWEEP 1+0 MC TO 25+0 MC IN 13+5 SECONDS.

TABLE 3A

AHMEDABAD, INDIA (123+0N, 74+0E)		PULSE STATION (190+0S)												TIME 7+00											
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
fF2	U	74	72	68	59	39	32	48	98	78	71	103	117	126	130	150	150	130	150	146	114	100	79	76	
	MED	25	24	24	27	29	24	28	30	29	29	26	23	26	26	27	24	26	28	25	23	24	21	22	20
	CNT	25	24	24	27	29	24	28	30	29	29	26	23	26	26	27	24	26	28	25	23	24	21	22	20
	LO																								
fF2	U																								
	MED																								
	CNT																								
	LO																								
fF	U	300	375	240	230	245	270	250	235	225	225	225	220	230	420	450	440	435	470	305	300				
	MED	30	30	30	30	31	29	30	28	28	27	25	24	24	26	29	30	30	30	30	30	30	30	30	
	CNT	30	30	30	30	31	29	30	28	28	27	25	24	24	26	29	30	30	30	30	30	30	30	30	
	LO																								
M3000/F2	U																								
	MED																								
	CNT																								
	LO																								
fF1	U																								
	MED																								
	CNT																								
	LO																								
fE	U	1																							
	MED	1																							
	CNT	1																							
	LO																								
fE8	U	330	245	245	250	250	245	245	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
	MED	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
	CNT	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
	LO																								

APRIL 1961

SWEEP 1+0 MC TO 25+0 MC IN 5 MINUTES AUTOMATIC

TABLE 3B

AHMEDABAD, INDIA (123+0N, 74+0E)		PULSE STATION (190+0S)												TIME 15+00											
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
fF2	U	46	51	50	48	54	54	51	48	42	42	42	41	43	43	42	47	36	54	47	41	39	42	42	50
	MED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	CNT	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	LO																								
fF2	U																								
	MED																								
	CNT																								
	LO																								
fF	U	245	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
	MED	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
	CNT	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
	LO																								
fE	U	1																							
	MED	1																							
	CNT	1																							
	LO																								
fE8	U	330	245	245	250	250	245	245	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	
	MED	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
	CNT	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
	LO																								

APRIL 1961

SWEEP 1+0 MC TO 25+0 MC IN 13+5 SECONDS.

TABLE 3C

AHMEDABAD, INDIA (123+0N, 74+0E)	
----------------------------------	--

TABLE 34
AHMEDABAD, INDIA
(23-04+ 72+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	
fF2	MED CNT LO	47 25	46 26	44 26	36 24	28 26	23 28	24 26	56 44	90 44	104 44	121 44	133 28	139 28	135 28	134 28	129 27	122 27	104 26	94 26	103 26	86 25	66 25	54 26	
nF2	MED CNT LO								245 47	270 31	289 31	299 31	308 31	315 31	320 30	325 30	329 30	330 29	328 29	326 28	324 28	323 28	322 28	321 28	320 28
nF	MED CNT LO								270 29	285 29	299 29	315 29	330 29	345 29	355 29	365 29	370 29	375 29	378 29	379 29	380 29	381 29	382 29	383 29	384 29
M3000IF2	MED CNT LO																								
fF1	MED CNT								500 10	500 28	500 28	510 28	510 28	510 28	510 28	500 28									
fE	MED CNT								220 47	265 31	310 31	340 31	370 31	390 31	410 31	430 31	450 31	470 31	490 31	510 31	530 31	550 31	570 31	590 31	610 31
nE	MED CNT								110 28	110 31															
fEa	MED CNT								E 30	E 30	E 30	E 31													

SHEEP 0.16 MC TO 25+0 MC IN 8 MINUTES, AUTOMATIC

JANUARY, 1961

TABLE 35
BRISBANE, AUSTRALIA
(27-25+ 152-9E)

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
fF2	MED CNT LO	51 29	51 28	43 27	43 27	40 27	40 27	58 22	88 19	70 19	80 19	83 19	85 19	86 19											
nF2	MED CNT LO								280 8	285 10	290 10	295 10	300 10	305 10	310 10	315 10	320 10	325 10	330 10	335 10	340 10	345 10	350 10	355 10	360 10
nF	MED CNT LO								280 8	285 10	290 10	295 10	300 10	305 10	310 10	315 10	320 10	325 10	330 10	335 10	340 10	345 10	350 10	355 10	360 10
M3000IF2	MED CNT LO																								
fF1	MED CNT																								
fE	MED CNT																								
nE	MED CNT																								
fEa	MED CNT																								

SHEEP 1.0 MC TO 18+0 MC IN 1 MINUTE 55 SECONDS.

FEBRUARY, 1961

TABLE 36
LINDAU/RARZ, GERMANY
(51-04N+ 10-1E)

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
fF2	MED CNT LO	304 26	515 27	517 26	480 26	419 23	48 26	016 26	634 49	785 27	808 27	905 27	923 29	91 30	923 29	91 29	923 29								
nF2	MED CNT LO								320 1	320 3	320 8	320 11	320 6	320 7	320 5	320 2	320 4								
nF	MED CNT LO								308 29	308 48	311 30	325 28	380 27	465 27	645 27	625 27									
M3000IF2	MED CNT LO								234 49	244 49	267 49	285 49	251 49												
fF1	MED CNT								300 30																
fE	MED CNT								E 30																
nE	MED CNT								E 30																
fEa	MED CNT								E 30																

SHEEP 1.10 MC TO 18+0 MC IN 8 MINUTES.

SEPTEMBER, 1960

TABLE 37
JULISBURG/RUGER, GERMANY
(53-04N+ 13+4E)

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
fF2	MED CNT LO	51 29	51 28	43 27	43 27	40 27	40 27	58 22	88 19	70 19	80 19	83 19	85 19	86 19											
nF2	MED CNT LO								280 8	285 10	290 10	295 10	300 10	305 10	310 10	315 10	320 10	325 10	330 10	335 10	340 10	345 10	350 10	355 10	360 10
nF	MED CNT LO								280 8	285 10	290 10	295 10	300 10	305 10	310 10	315 10	320 10	325 10	330 10	335 10	340 10	345 10	350 10	355 10	360 10
M3000IF2	MED CNT LO																								
fF1	MED CNT																								
fE	MED CNT																								
nE	MED CNT																								
fEa	MED CNT																								

SHEEP 0.45 MC TO 20+0 MC IN 2.0 MINUTES.

SEPTEMBER, 1960

TABLE 38
JOURNAL, KULIKRI-
I 7ANA 1961

Table with columns for HOUR (00-23) and rows for MED CNT, UO, LO, N F2, N F, M3000IF2, F F1, F E, N E, F E8. Includes data for various time points and a summary row for SEPTEMBER, 1960.

TABLE 39
SHEEP 0485 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC

Table with columns for HOUR (00-23) and rows for MED CNT, UO, LO, N F2, N F, M3000IF2, F F1, F E, N E, F E8. Includes data for various time points and a summary row for SEPTEMBER, 1960.

TABLE 40
SHEEP 0487 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC

Table with columns for HOUR (00-23) and rows for MED CNT, UO, LO, N F2, N F, M3000IF2, F F1, F E, N E, F E8. Includes data for various time points and a summary row for SEPTEMBER, 1960.

TABLE 41
SHEEP 0489 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC

Table with columns for HOUR (00-23) and rows for MED CNT, UO, LO, N F2, N F, M3000IF2, F F1, F E, N E, F E8. Includes data for various time points and a summary row for SEPTEMBER, 1960.

TABLE 42
SHEEP 0491 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC

Table with columns for HOUR (00-23) and rows for MED CNT, UO, LO, N F2, N F, M3000IF2, F F1, F E, N E, F E8. Includes data for various time points and a summary row for SEPTEMBER, 1960.

TABLE 43
SHEEP 0493 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC

Table with columns for HOUR (00-23) and rows for MED CNT, UO, LO, N F2, N F, M3000IF2, F F1, F E, N E, F E8. Includes data for various time points and a summary row for SEPTEMBER, 1960.

TABLE 44
SHEEP 0495 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC

Table with columns for HOUR (00-23) and rows for MED CNT, UO, LO, N F2, N F, M3000IF2, F F1, F E, N E, F E8. Includes data for various time points and a summary row for SEPTEMBER, 1960.

TABLE 45
SHEEP 0497 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC

Table with columns for HOUR (00-23) and rows for MED CNT, UO, LO, N F2, N F, M3000IF2, F F1, F E, N E, F E8. Includes data for various time points and a summary row for SEPTEMBER, 1960.

TABLE 46
SHEEP 0499 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC

Table with columns for HOUR (00-23) and rows for MED CNT, UO, LO, N F2, N F, M3000IF2, F F1, F E, N E, F E8. Includes data for various time points and a summary row for SEPTEMBER, 1960.

SEPTEMBER, 1960

SEPTEMBER, 1960

SEPTEMBER, 1960

TABLE 42

SOURCE: BELGIUM		(6+5+1+4+6+6)											TIME													
PORT LOCKROY		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
f6 F2	MED	56	53	48	47	46	59	58	62	99	74	78	77	78	72	73	74	76	79	78	77	78	77	78	82	58
	CNT	59	56	55	52	50	57	60	74	60	82	81	81	82	79	78	78	80	84	83	83	76	67	62	58	
	LQ	51	46	44	43	40	42	51	57	84	63	68	70	69	70	70	69	71	75	74	69	64	58	58	56	
h F2	MED	530	430	345	345	300	305	325	325	350	330	325	325	350	330	325	310	300	280							
	CNT	680	475	425	425	385	355	360	377	367	350	348	318	320	350											
	LQ	252	385	380	295	282	290	310	320	305	310	305	250	300	280											
h F	MED	288	494	270	260	288	450	230	425	435	212	212	212	415	420	448	431	440	259	250	448	250	268	270		
	CNT	28	29	28	29	29	29	30	38	29	30	30	30	30	30	28	28	28	28	28	28	28	28	28		
	LQ	385	270	272	270	270	298	230	230	203	210	208	200	410	415	220	230	230	250	240	440	450	250	270		
MIS0000F2	MED	270	268	260	455	275	300	310	305	298	290	295	290	490	494	494	300	300	300	304	495	290	285	270		
	CNT	28	28	28	29	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28		
	LQ	275	278	272	275	282	308	324	350	310	310	319	318	300	302	305	300	290	295	290	290	290	290	290		
f6 F1	MED	330	370	415	445	470	460	480	510	467	490	498	470	400	480											
	CNT	3	5	8	8	8	9	7	8	9	9	7	8	9	7	8	9	8	7	8	9	8	7	8		
	LQ	124	190	250	285	317	330	308	352	370	370	355	342	310	280	230	170									
h F	MED	4	5	13	17	17	19	6	6	5	11	11	18	21	21	8	4									
	CNT	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
	LQ	115	119	109	105	103	103	103	103	103	103	103	103	105	107	115	145									
f6 E*	MED	17	14	16	14	22	29	34	38	40	40	40	40	38	38	38	36	34	36	31	28	25	24	24		
	CNT	29	28	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29		
	LQ	280	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250		

SHEEP 1:00 MC TO 20:0 MC IN 3 MINUTES.

31 SEPTEMBER 1960

TABLE 41

SOURCE: BELGIUM		(6+5+5+3+3+3+3)											TIME												
PORT LOCKROY		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6 F2	MED	49	47	44	40	41	36	48	59	77	80	92	94	102	100	97	95	90	85	83	74	64	60	56	54
	CNT	23	23	27	26	25	27	26	27	17	24	24	28	26	25	20	23	16	22	17	14	19	13	13	11
	LQ																								
h F2	MED	335	360	330	360	310	300	280	440	240	330	330	330	230	230	235	240	240	440	450	450	405	305	330	
	CNT	23	25	27	28	24	26	25	27	48	28	28	29	28	29	28	27	24	27	27	27	27	27	26	25
	LQ																								
h F	MED	230	230	235	245	255	270	320	310	315	320	310	315	315	315	345	310	330	300	300	450	450	240	240	
	CNT	41	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	
	LQ																								
MIS0000F2	MED	270	268	260	455	275	300	310	305	298	290	295	290	490	494	494	300	300	300	304	495	290	285	270	
	CNT	28	28	28	29	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	
	LQ	275	278	272	275	282	308	324	350	310	310	319	318	300	302	305	300	290	295	290	290	290	290	290	
f6 F1	MED	330	370	415	445	470	460	480	510	467	490	498	470	400	480										
	CNT	3	5	8	8	8	9	7	8	9	9	7	8	9	7	8	9	8	7	8	9	8	7	8	
	LQ	124	190	250	285	317	330	308	352	370	370	355	342	310	280	230	170								
f6 E	MED	4	5	13	17	17	19	6	6	5	11	11	18	21	21	8	4								
	CNT	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
	LQ	115	119	109	105	103	103	103	103	103	103	103	103	105	107	115	145								
h F	MED	17	14	16	14	22	29	34	38	40	40	40	40	38	38	38	36	34	36	31	28	25	24	24	
	CNT	29	28	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	
	LQ	280	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	

SHEEP 0:47 MC TO 25:0 MC IN 5 MINUTES. AUTOMATIC

31 SEPTEMBER 1960

TABLE 44

SOURCE: BELGIUM		(6+5+5+3+3+3+3)											TIME												
PORT LOCKROY		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6 F2	MED	22	22	23	23	24	22	21	21	24	46	58	60	67	70	64	64	60	32	63	15	19	19	20	
	CNT	41	22	23	24	24	24	25	26	21	26	27	24	25	24	26	46	46	27	48	48	29	49	43	
	LQ																								
h F2	MED	330	350	345	360	315	300	280	460	450	425	415	410	215	220	210	220	420	420	420	300	300	300	300	
	CNT	26	28	29	28	29	27	25	29	19	25	23	26	28	30	30	30	29	29	29	29	29	29	29	
	LQ																								
h F	MED	445	250	450	450	280	270	285	305	465	425	350	305	305	340	350	355	330	340	320	280	280	250	250	
	CNT	19	21	22	21	24	22	22	23	15	22	21	15	14	11	18	16	20	22	20	11	20	19	17	
	LQ																								
MIS0000F2	MED	270	268	260	455	275	300	310	305	298	290	295	290	490	494	494	300	300	300	304	495	290	285	270	
	CNT	28	28	28	29	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	
	LQ	275	278	272	275	282	308	324	350	310	310	319	318	300	302	305	300	290	295	290	290	290	290	290	
f6 F1	MED	330	370	415	445	470	460	480	510	467	490	498	470	400	480										
	CNT	3	5	8	8	8	9	7	8	9	9	7	8	9	7	8	9	8	7	8	9	8	7	8	
	LQ	124	190	250	285	317	330	308	352	370	370	355	342	310	280	230	170								
f6 E	MED	4	5	13	17	17	19	6	6	5	11	11	18	21	21	8	4								
	CNT	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
	LQ	115	119	109	105	103	103	103	103	103	103	103	103	105	107	115	145								
h F	MED	17	14	16	14	22	29	34	38	40	40	40	40	38	38	38	36	34	36	31	28	25	24	24	
	CNT	29	28	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	
	LQ	280	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	

SHEEP 0:47 MC TO 25:0 MC IN 5 MINUTES. AUTOMATIC

TABEL 44

HOUR	BADAN, NUSANTARA																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED CNT LO	86 26																						
h'F2	MED CNT LO																							
h'F	MED CNT LO																							
MIS000IF2	MED CNT LO																							
f6FI	MED CNT																							
f6E	MED CNT																							
h'E	MED CNT																							
f6Ea	MED CNT																							

*SLEEP 0403 MC TO 0500 MC IN 5 MINUTE** AUTOMATIC.

APRIL 1960

TABEL 45

HOUR	SULLURUPPOGUEY, GERMANIA																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED CNT LO	50 26	46 25	44 18	44 18	40 18	40 18	44 21																
h'F2	MED CNT LO																							
h'F	MED CNT LO																							
MIS000IF2	MED CNT LO																							
f6FI	MED CNT																							
f6E	MED CNT																							
h'E	MED CNT																							
f6Ea	MED CNT																							

SLEEP 0445 MC TO 0440 MC IN 20 SECONDS

APRIL 1960

TABEL 46

HOUR	BADAN, NUSANTARA																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED CNT LO	86 26																						
h'F2	MED CNT LO																							
h'F	MED CNT LO																							
MIS000IF2	MED CNT LO																							
f6FI	MED CNT																							
f6E	MED CNT																							
h'E	MED CNT																							
f6Ea	MED CNT																							

*SLEEP 0403 MC TO 0500 MC IN 5 MINUTE** AUTOMATIC.

APRIL 1960

TABEL 47

HOUR	SULLURUPPOGUEY, GERMANIA																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED CNT LO	86 26																						
h'F2	MED CNT LO																							
h'F	MED CNT LO																							
MIS000IF2	MED CNT LO																							
f6FI	MED CNT																							
f6E	MED CNT																							
h'E	MED CNT																							
f6Ea	MED CNT																							

SLEEP 0445 MC TO 0440 MC IN 20 SECONDS

APRIL 1960

TABEL 48

HOUR	DUMSRVILLE, AUSTRALIA																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED CNT LO	86 26																						
h'F2	MED CNT LO																							
h'F	MED CNT LO																							
MIS000IF2	MED CNT LO																							
f6FI	MED CNT																							
f6E	MED CNT																							
h'E	MED CNT																							
f6Ea	MED CNT																							

*SLEEP 0403 MC TO 0500 MC IN 5 MINUTE** AUTOMATIC.

APRIL 1960

TABEL 49

HOUR	DUMSRVILLE, AUSTRALIA																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED CNT LO	86 26																						
h'F2	MED CNT LO																							
h'F	MED CNT LO																							
MIS000IF2	MED CNT LO																							
f6FI	MED CNT																							
f6E	MED CNT																							
h'E	MED CNT																							
f6Ea	MED CNT																							

*SLEEP 0403 MC TO 0500 MC IN 5 MINUTE** AUTOMATIC.

APRIL 1960

NATAL, BRAZIL

TABLE 57

TIME 30:00

RESULTE BAT. CANADA

17h.7h. 4h.5h.1

TABLE 58

TIME 90:00

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hF2	MED CNT 58	60	58	56	55	55	55	55	55	54	54	50	55	54	54	55	56	57	55	55	56	59	59	59
hF2	MED CNT 30	30	30	30	30	30	30	30	30	30	29	30	30	28	29	30	30	30	30	30	30	30	30	30
hF2	MED CNT 4	7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
hF	MED CNT 270	270	260	260	260	230	230	230	230	230	210	210	210	210	210	210	210	210	210	210	210	210	210	210
hF	MED CNT 27	29	27	29	26	29	28	28	28	21	18	15	18	16	16	18	22	26	28	29	28	27	25	29
M3000IF2	MED CNT 280	280	280	280	250	250	250	250	250	250	240	240	240	240	240	240	240	240	240	240	240	240	240	240
M3000IF2	MED CNT 17	17	17	17	12	17	14	15	14	14	13	7	9	10	10	8	10	14	13	11	10	10	10	10
hFI	MED CNT 360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360
hFI	MED CNT 6	5	7	14	21	24	27	25	30	29	27	25	29	25	29	29	30	28	28	28	28	28	23	13
hE	MED CNT 230	230	240	240	260	290	300	310	310	340	320	320	350	350	340	330	340	300	300	300	300	300	300	300
hE	MED CNT 26	26	25	24	25	27	28	28	27	24	21	20	21	20	27	27	29	29	29	28	27	27	27	27
hE	MED CNT 110	105	105	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
hE	MED CNT 23	26	24	24	25	25	24	25	28	23	23	21	21	25	27	27	25	26	28	28	27	25	25	22
hE*	MED CNT																							

1 SHEEP 14.8 MC TO 20.0 MC IN 15 SECONDS

JUNE 1959

NATAL, BRAZIL

TABLE 57

TIME 30:00

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hF2	MED CNT 92	90	88	86	81	88	90	86	106	116	114	114	114	115	115	111	112	114	113	76	85	94	94	94
hF2	MED CNT 12	14	17	18	23	21	23	102	102	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
hF2	MED CNT 190	84	82	76	72	53	45	83	102	108	110	106	103	104	105	107	108	107	103	94	75	75	75	74
hF	MED CNT 270	265	270	250	230	220	225	245	230	220	210	205	195	200	190	205	210	200	200	200	200	200	200	200
hF	MED CNT 28	26	27	26	27	25	23	22	22	20	20	13	13	13	14	14	15	14	14	14	14	14	14	14
M3000IF2	MED CNT 280	280	300	300	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310
M3000IF2	MED CNT 6	9	14	17	18	19	23	21	24	27	24	24	27	24	27	27	28	28	27	25	11	3	3	8
hFI	MED CNT 360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360
hFI	MED CNT 6	5	7	14	21	24	27	25	30	29	27	25	29	25	29	29	30	28	28	28	28	23	13	3
hE	MED CNT 230	230	240	240	260	290	300	310	310	340	320	320	350	350	340	330	340	300	300	300	300	300	300	300
hE	MED CNT 26	26	25	24	25	27	28	28	27	24	21	20	21	20	27	27	29	29	29	28	27	27	27	27
hE	MED CNT 110	105	105	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
hE	MED CNT 23	26	24	24	25	25	24	25	28	23	23	21	21	25	27	27	25	26	28	28	27	25	25	22
hE*	MED CNT																							

1 SHEEP 14.0 MC TO 25.0 MC IN 35 SECONDS

JANUARY 1960

WINNIPEG, CANADA

TABLE 61

TIME 90:00

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hF2	MED CNT 55	50	65	65	67	50	56	57	60	61	62	65	65	66	66	67	67	68	68	68	70	70	68	60
hF2	MED CNT 26	26	28	25	25	28	28	27	27	28	27	28	26	26	25	27	29	29	30	30	30	30	30	27
hF2	MED CNT 2	14	21	24	25	22	14	19	23	23	22	14	19	23	23	25	27	27	27	27	27	27	27	27
hF	MED CNT 300	310	310	310	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
hF	MED CNT 24	25	24	24	29	21	22	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
M3000IF2	MED CNT 270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
M3000IF2	MED CNT 4	5	2	3	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
hFI	MED CNT 360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360
hFI	MED CNT 2	16	22	25	27	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
hE	MED CNT 270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
hE	MED CNT 20	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
hE	MED CNT 110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
hE	MED CNT 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

1 SHEEP 14.2 MC TO 24.4 MC IN 11 SECONDS

JUNE 1959

UPRSALA, SWEDEN

TABLE 59

TIME 12:00

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hF2	MED CNT 60	68	67	70	71	71	74	74	76	76	78	78	78	74	73	73	73	73	72	74	72	75	74	71
hF2	MED CNT 30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	30	30	30	30
hF2	MED CNT 3	21	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
hF	MED CNT 300	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310
hF	MED CNT 20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
M3000IF2	MED CNT 270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
M3000IF2	MED CNT 28	20	30	30	30	29	30	30	30	30	28	30	30	29	29	30	29	30	29	30	30	30	30	29
hFI	MED CNT 360	360	36																					

TABLE 66
TAMARRASSET, FRENCH W. AFRICA
(22-08, 5x3E)

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hF2	U MED CNT LO	U 26	U 25	U 21	U 19	U 26	U 26	U 23	U 28	U 30	U 29	U 29	U 29	U 28	U 28	U 28	U 28	U 27	U 27	U 25	U 26	U 26	U 26	U 26
h'F2	U MED CNT LO	U 360	U 310																					
h'F	U MED CNT LO	U 240	U 230	U 225	U 215	U 238	U 245	U 270	U 245	U 235	U 245	U 240	U 210	U 205	U 215	U 225	U 232	U 245	U 260	U 300	U 340	U 505	U 480	U 450
M180000IF2	U MED CNT LO	U 288	U 2	U 3	U 5	U 6	U 9	U 17	U 16	U 26	U 46	U 23	U 15	U 13	U 8	U 3	U 2	U 1	U 1	U 3	U 1	U 265	U 1	U 1
h'F1	U MED CNT	U E																						
h'E	U MED CNT	U 10	U 6	U 11	U 11	U 11	U 11	U 19	U 20	U 20	U 24	U 21	U 18	U 11	U 19	U 20	U 21	U 24	U 24	U 18	U 40	U 9	U 11	U 10
h'Ea	U MED CNT	U 31	U 31	U 30	U 31	U 31	U 32	U 36	U 31	U 39	U 32	U 43	U 35	U 34	U 46	U 30	U 34	U 28	U 22	U 40	U 20	U 20	U 19	U 19

SHEEP 1+6 MC TO 17+0 MC IN 1 MINUTE.
MINUTE 1959

TABLE 65
RABAT, MOROCCO
(130-08, 6x6E)

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hF2	U MED CNT LO	U 91	U 70	U 53	U 49	U 84	U 75	U 106	U 146	U 132	U 134	U 134	U 136	U 135	U 132	U 130	U 130	U 128	U 144	U 90	U 90	U 65	U 58	U 4
h'F2	U MED CNT LO	U 525	U 338	U 460	U 290	U 300	U 425	U 1	U 1	U 2	U 3	U 3	U 1											
h'F	U MED CNT LO	U 510	U 520	U 295	U 290	U 310	U 282	U 278	U 465	U 250	U 420	U 435	U 250	U 450	U 250	U 250	U 255	U 455	U 460	U 480	U 270	U 465	U 490	U 485
M180000IF2	U MED CNT LO	U 265	U 300	U 248	U 265	U 480	U 499	U 310	U 310	U 498	U 290	U 280	U 474	U 465	U 470	U 275	U 480	U 485	U 500	U 480	U 470	U 458	U 450	U 1
h'F1	U MED CNT	U U																						
h'E	U MED CNT	U 190	U 230	U 330	U 350	U 380	U 410	U 400	U 375	U 370	U 370	U 300	U 420	U 350	U 220	U 24	U 27	U 24	U 20	U 20	U 20	U 20	U 20	U 20
h'Ea	U MED CNT	U 3	U 20	U 136	U 145																			

SHEEP 1+6 MC TO 17+0 MC IN 1 MINUTE.
MINUTE 1959

TABLE 68
POITIERS, FRANCE
(44-08, 4x3E)

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hF2	U MED CNT LO	U 80	U 38	U 57	U 56	U 52	U 45	U 43	U 87	U 108	U 117	U 134	U 139	U 144	U 136	U 136	U 132	U 120	U 125	U 100	U 70	U 80	U 73	U 68
h'F2	U MED CNT LO	U 600	U 300	U 275																				
h'F	U MED CNT LO	U 565	U 510	U 506	U 485	U 565	U 575	U 420	U 420	U 430	U 430	U 420												
M180000IF2	U MED CNT LO	U 230	U 240																					
h'F1	U MED CNT	U U																						
h'E	U MED CNT	U 5																						
h'Ea	U MED CNT	U 31																						

SHEEP 1+6 MC TO 17+0 MC IN 1 MINUTE.
MINUTE 1959

TABLE 69
SHEEP 1+6 MC TO 17+0 MC IN 1 MINUTE.
MINUTE 1959

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hF2	U MED CNT LO	U 10	U 14	U 11	U 17	U 15	U 14	U 28	U 14															
h'F2	U MED CNT LO	U 27																						
h'F	U MED CNT LO	U 27																						
M180000IF2	U MED CNT LO	U 27																						
h'F1	U MED CNT	U U																						
h'E	U MED CNT	U U																						
h'Ea	U MED CNT	U U																						

SHEEP 1+6 MC TO 17+0 MC IN 1 MINUTE.
MINUTE 1959

TABLE 90
110-DK, 70-7E)

TRUCHY, INDIA

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL

JULY, 1959

HOURL	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED	97	83	67	76	65	85	108	116	118	110	107	108	111	115	117	117	116	108	106	95	97	98	98
	CNT	5	3	5	7	14	23	27	22	29	14	28	30	28	25	43	30	15	27	30	43	6	9	5
	LO																							
n'F2	MED																							
	CNT																							
	LO																							
n'F	MED																							
	CNT																							
	LO																							
MIS00001F2	MED	1	3	5	1	3	3	306	265	406	355	325	250	450	250	225	240	240	240	240	240	240	240	240
	CNT																							
	LO																							
f6F1	MED																							
	CNT																							
	LO																							
f6E	MED																							
	CNT																							
	LO																							
n'E	MED																							
	CNT																							
	LO																							
f6Ea	MED																							
	CNT																							
	LO																							

TABLE 89
113-DK, 80-3E1)

MADRAS, INDIA

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL

JULY, 1959

HOURL	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
f6F2	MED	93	80	85	77	74	70	85	106	113	116	114	116	110	113	110	110	113	110	113	107	100	96	95	97
	CNT	30	28	25	23	24	28	31	34	31	29	30	27	27	15	44	29	30	31	30	28	27	26	26	24
	LO																								
n'F2	MED																								
	CNT																								
	LO																								
n'F	MED																								
	CNT																								
	LO																								
MIS00001F2	MED	2	7	16	21	140	6	6	215	430															
	CNT																								
	LO																								
f6F1	MED																								
	CNT																								
	LO																								
f6E	MED																								
	CNT																								
	LO																								
n'E	MED																								
	CNT																								
	LO																								
f6Ea	MED																								
	CNT																								
	LO																								

TABLE 91
110-DK, 77-2E1)

COCHIN, INDIA

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL

JULY, 1959

HOURL	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
f6F2	MED	83	84	74	68	74	76	78	103	113	118	116	110	105	108	111	113	116	116	107	96	94	94	93	91
	CNT	9	12	14	17	19	20	21	27	28	27	26	27	29	29	31	31	29	31	27	24	24	24	24	24
	LO																								
n'F2	MED																								
	CNT																								
	LO																								
n'F	MED																								
	CNT																								
	LO																								
MIS00001F2	MED	280	480	265	285	315	340	495	485	650	440	415	412	440	410	410	412	440	425	250	415	440	409	250	
	CNT	9	11	12	14	17	26	29	29	30	29	28	29	29	27	30	31	31	29	24	29	30	34	29	
	LO																								
f6F1	MED																								
	CNT																								
	LO																								
f6E	MED																								
	CNT																								
	LO																								
n'E	MED																								
	CNT																								
	LO																								
f6Ea	MED																								
	CNT																								
	LO																								

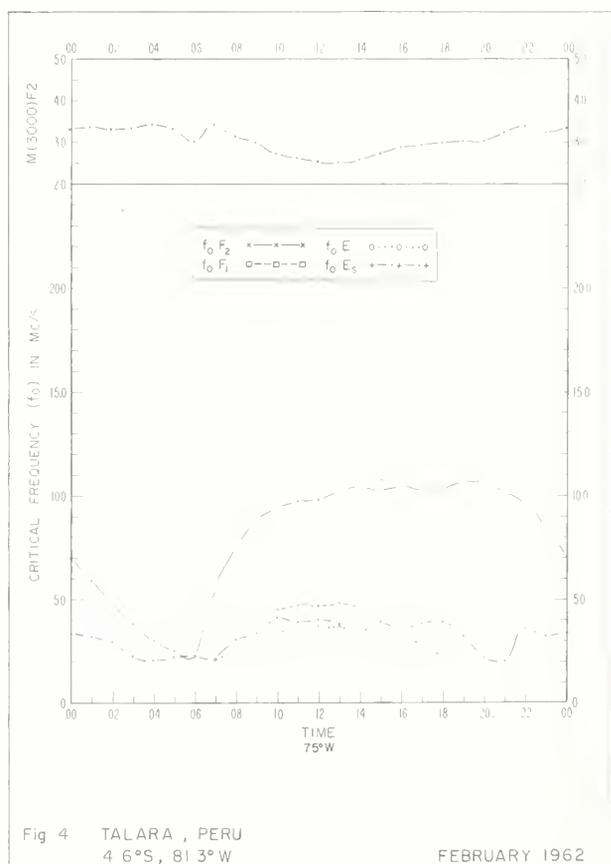
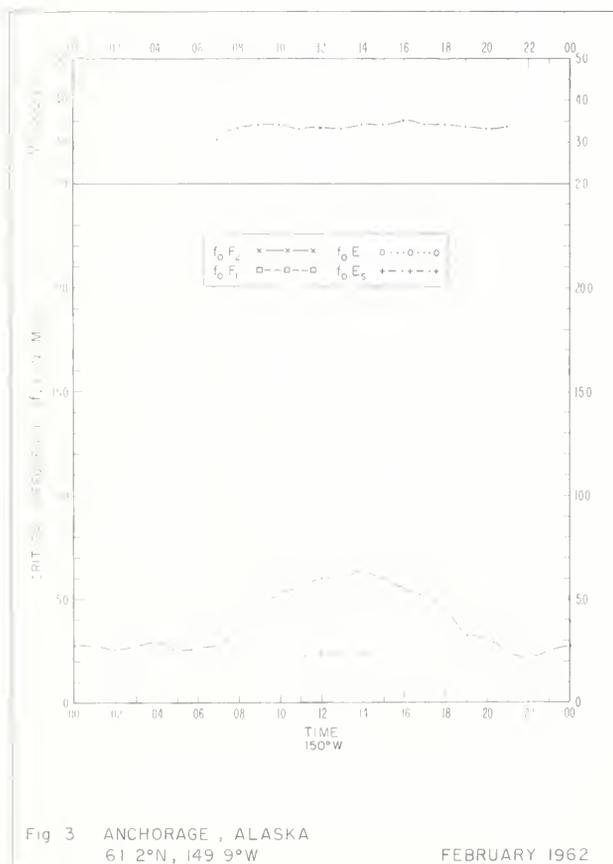
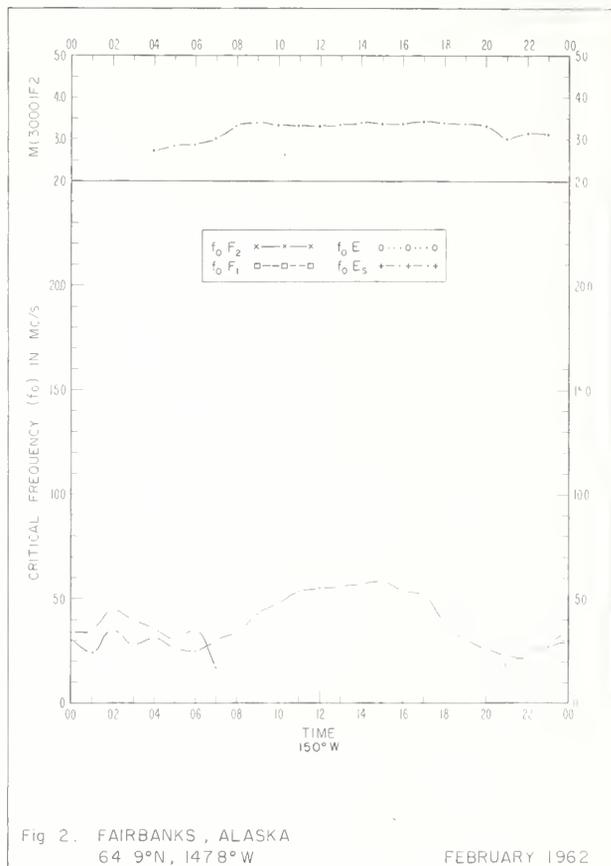
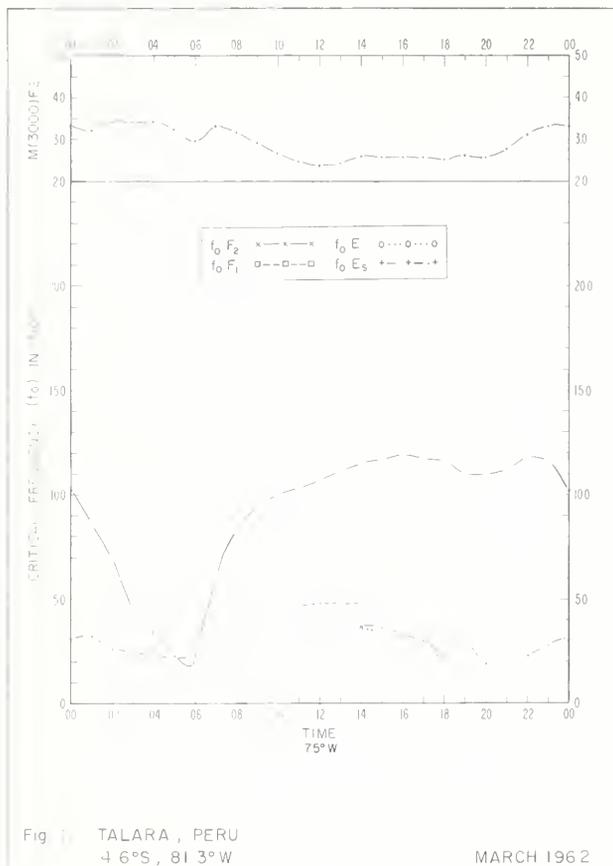
TABLE 92
118-DK, 77-2E3)

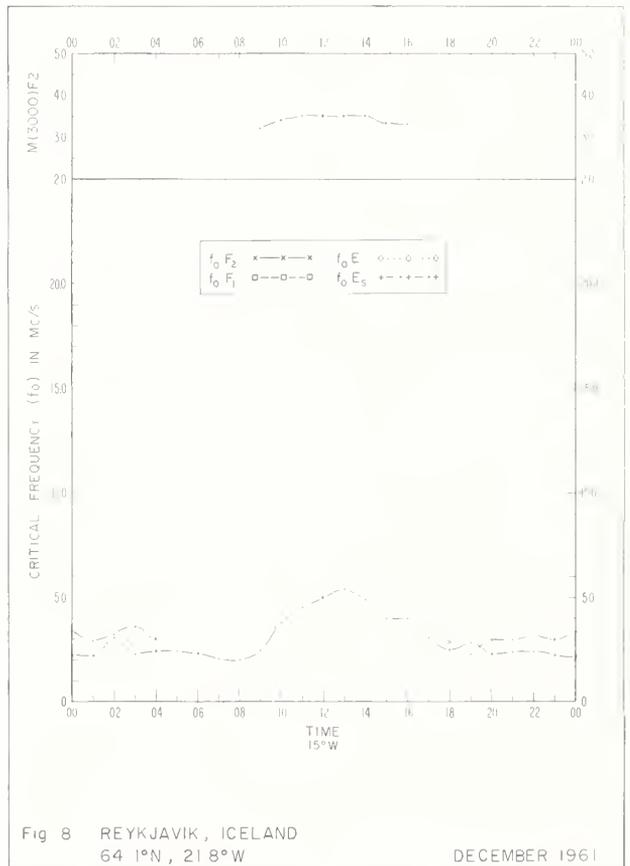
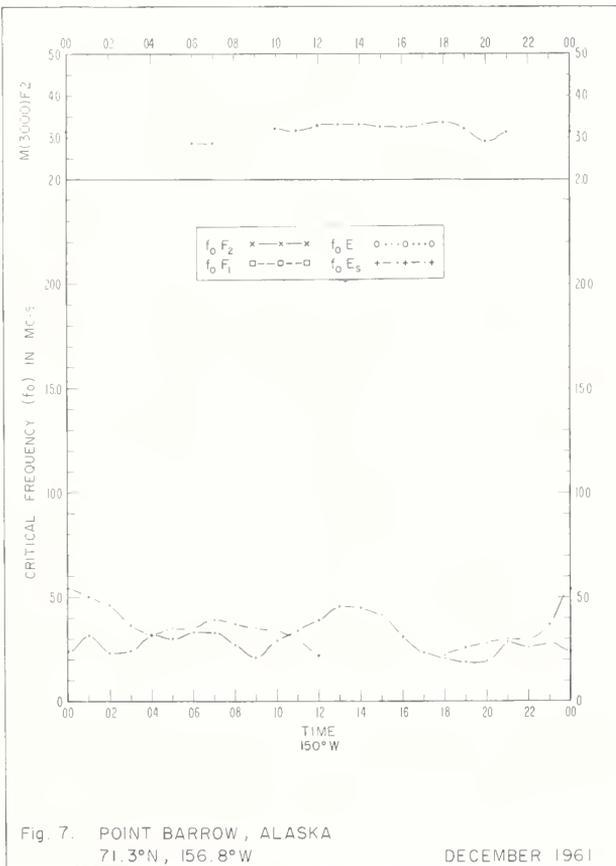
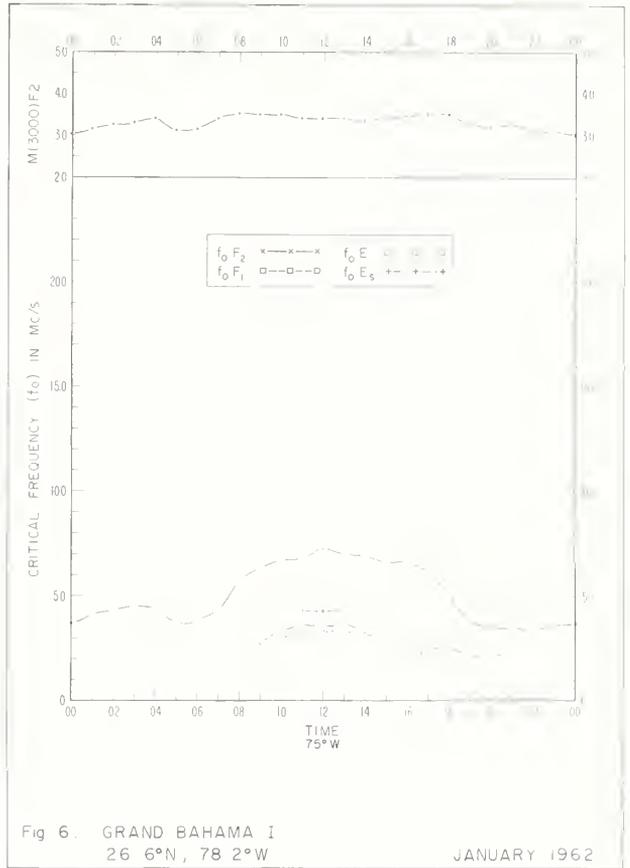
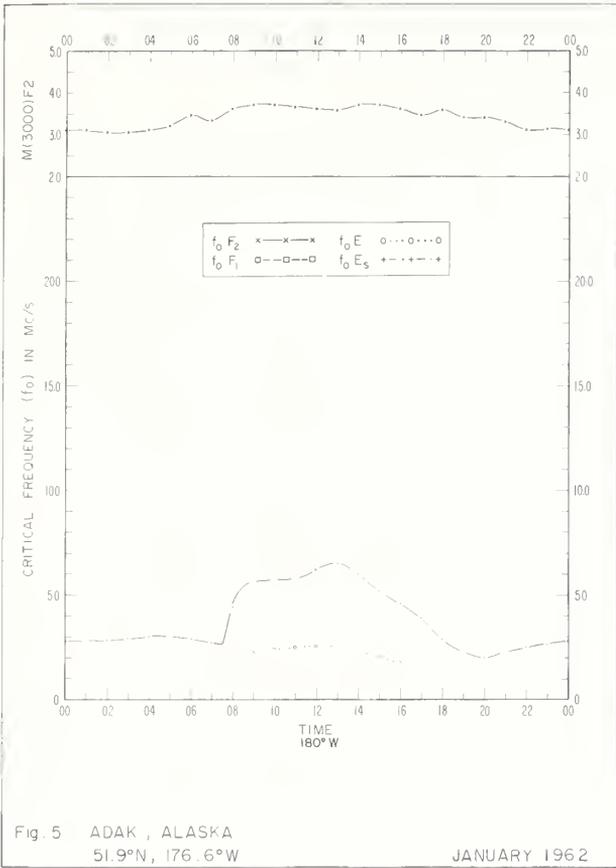
PERANGKUM, INDIA

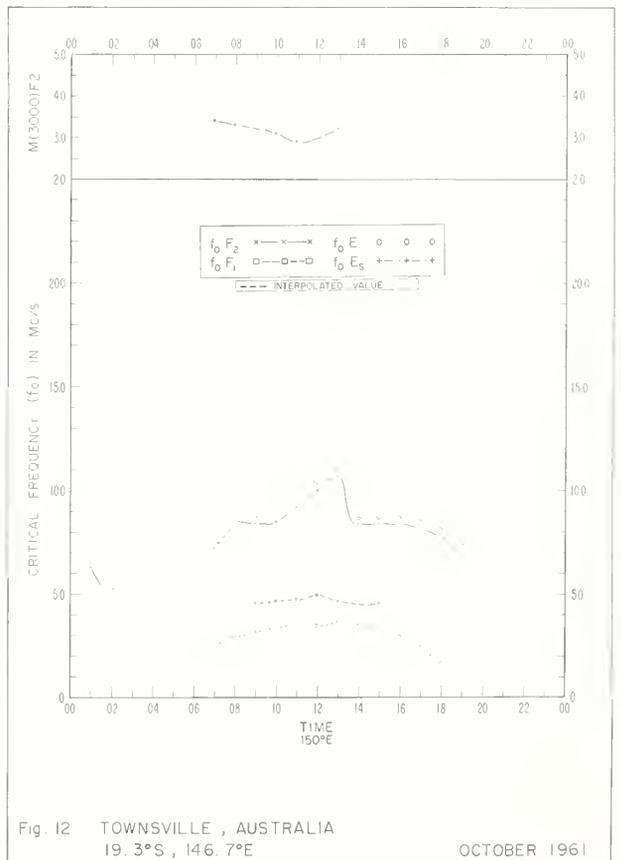
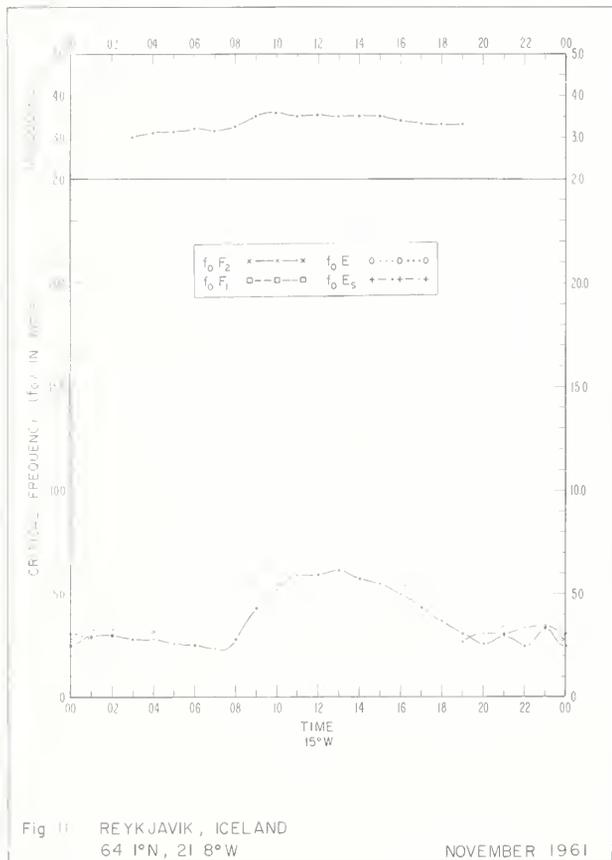
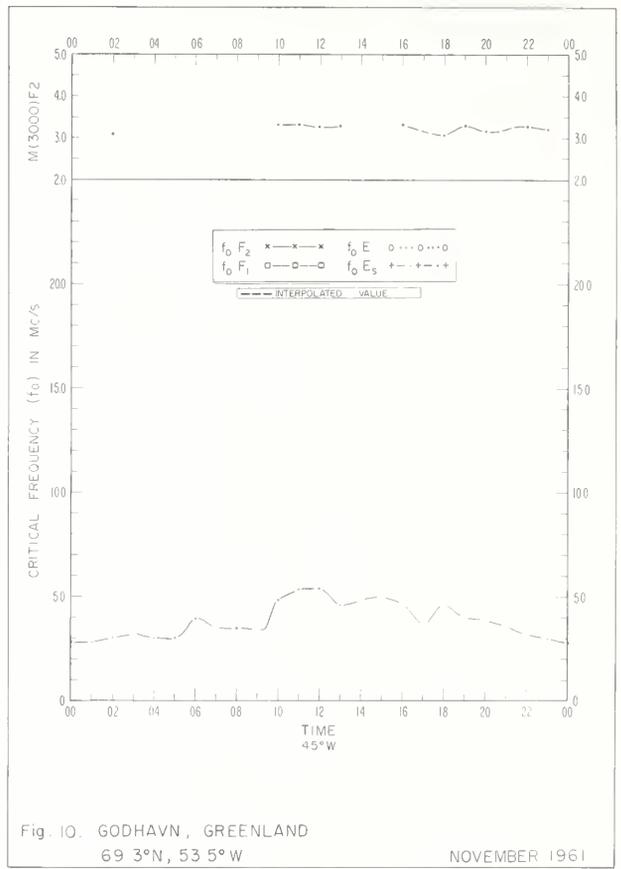
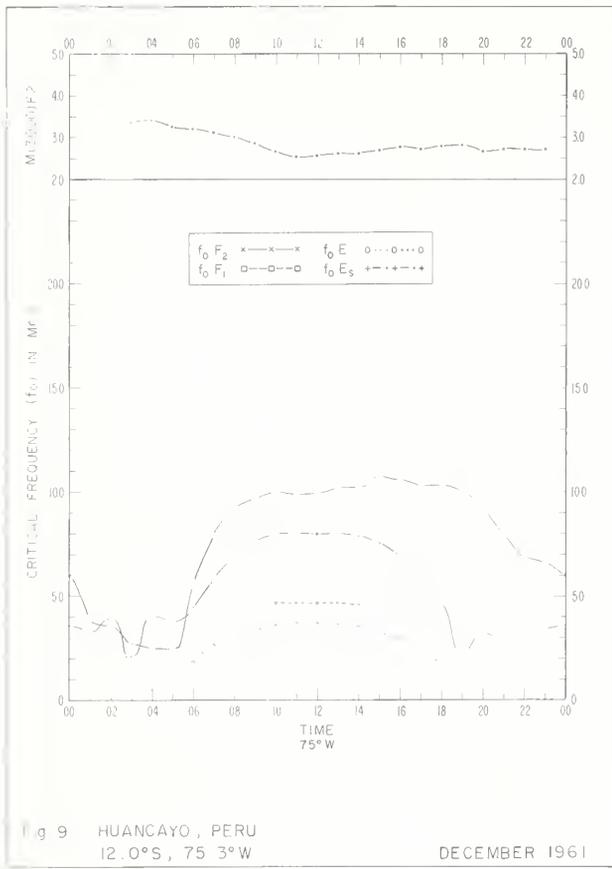
SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL

JULY, 1959

HOURL	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED	92	82	6	6	6	6	78	107	120	125	115	108	107	108	113	117	122	115	107	92	110	101	102
	CNT																							







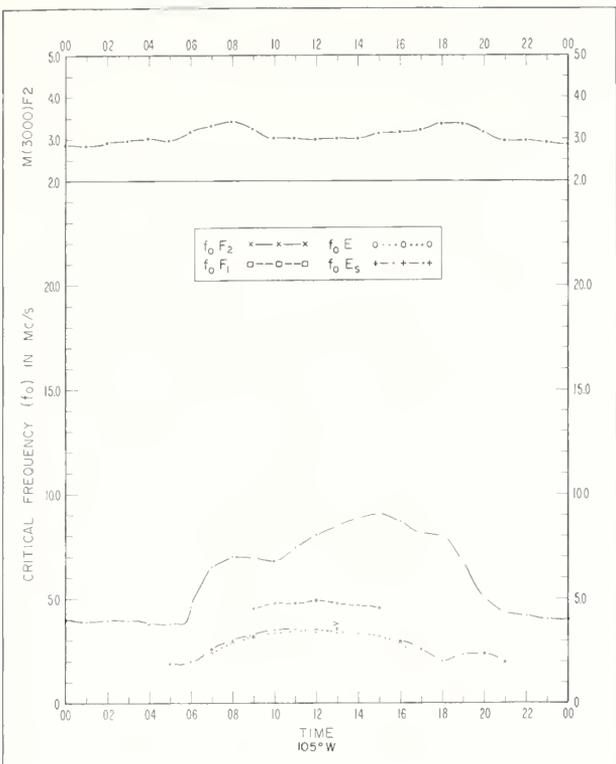


Fig 13. WHITE SANDS, NEW MEXICO
32.3°N, 106.5°W
SEPTEMBER 1961

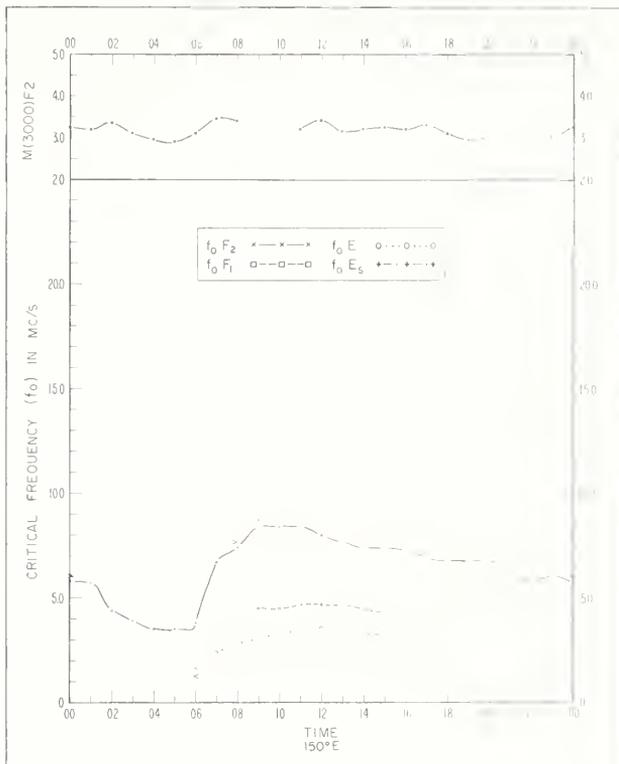


Fig 14. TOWNSVILLE, AUSTRALIA
19.3°S, 146.7°E
SEPTEMBER 1961

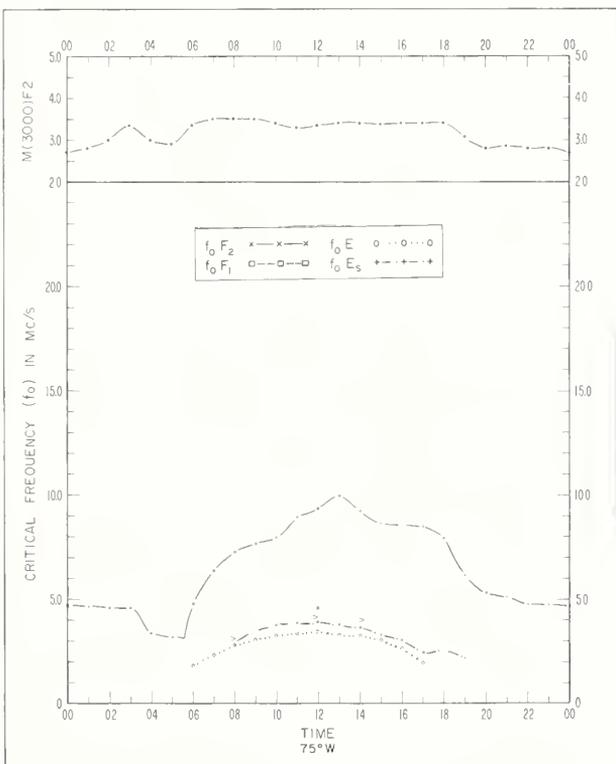


Fig 15. CONCEPCION, CHILE
36.6°S, 73.0°W
SEPTEMBER 1961

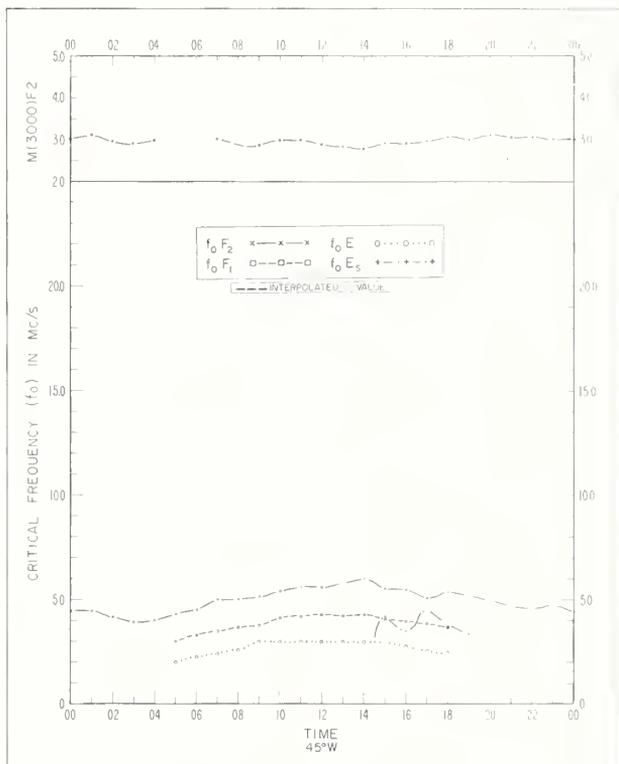
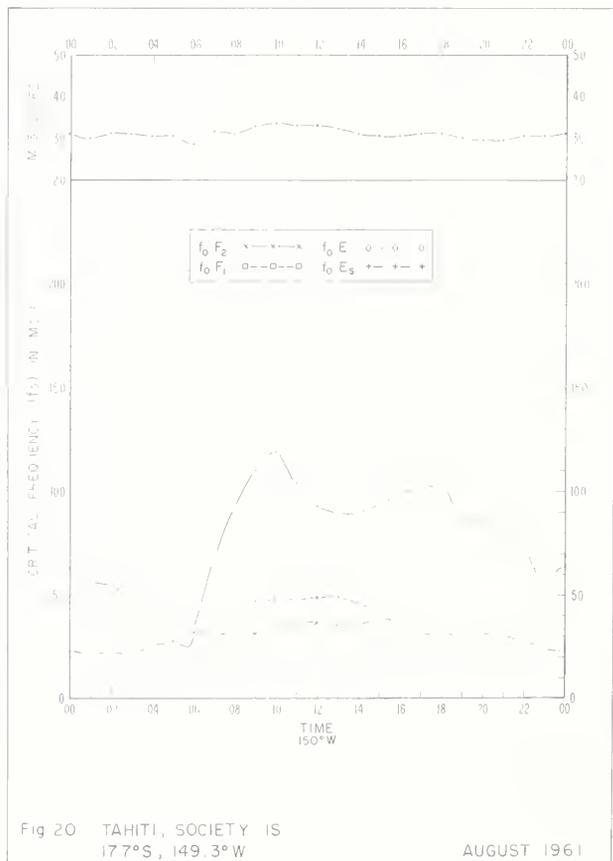
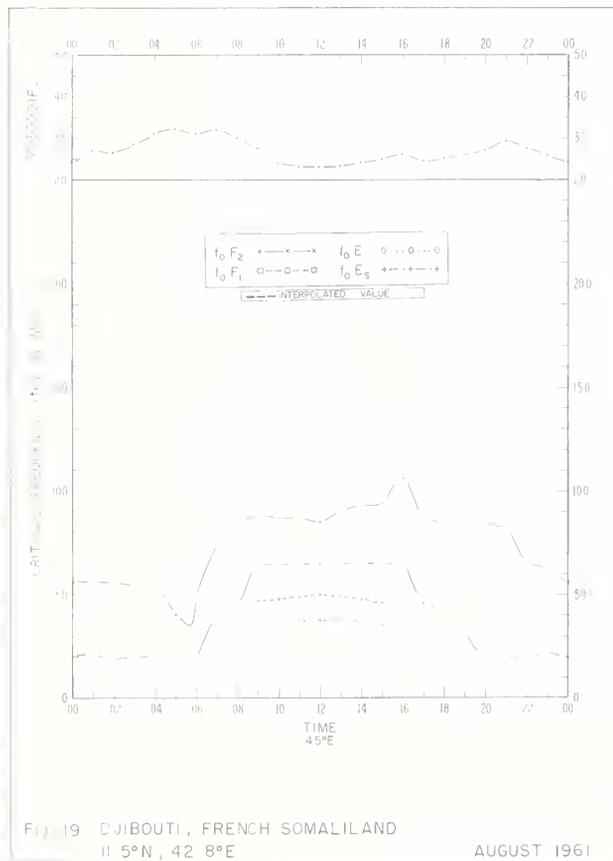
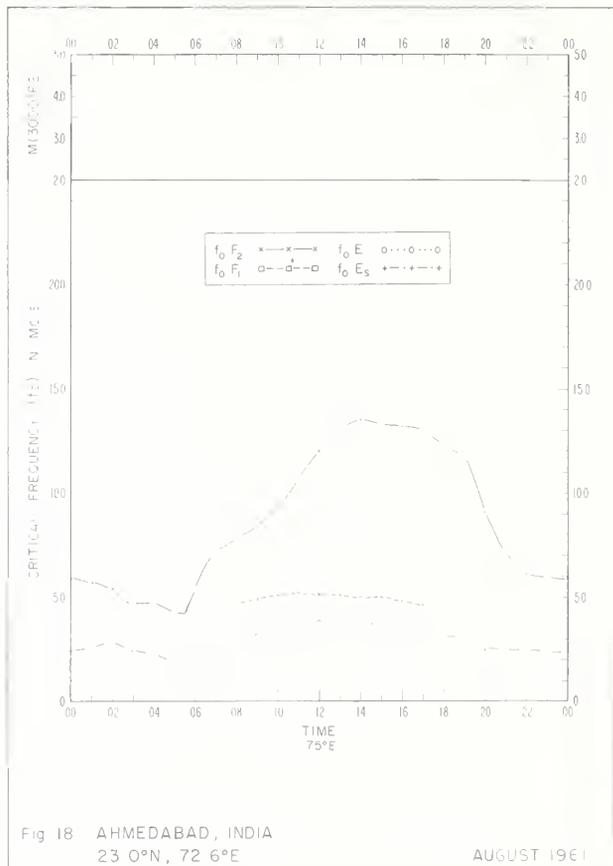
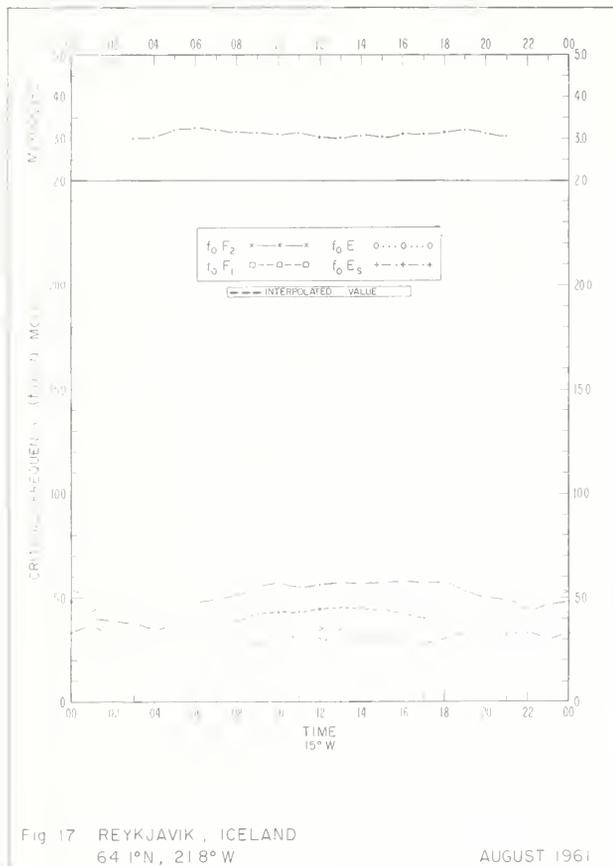
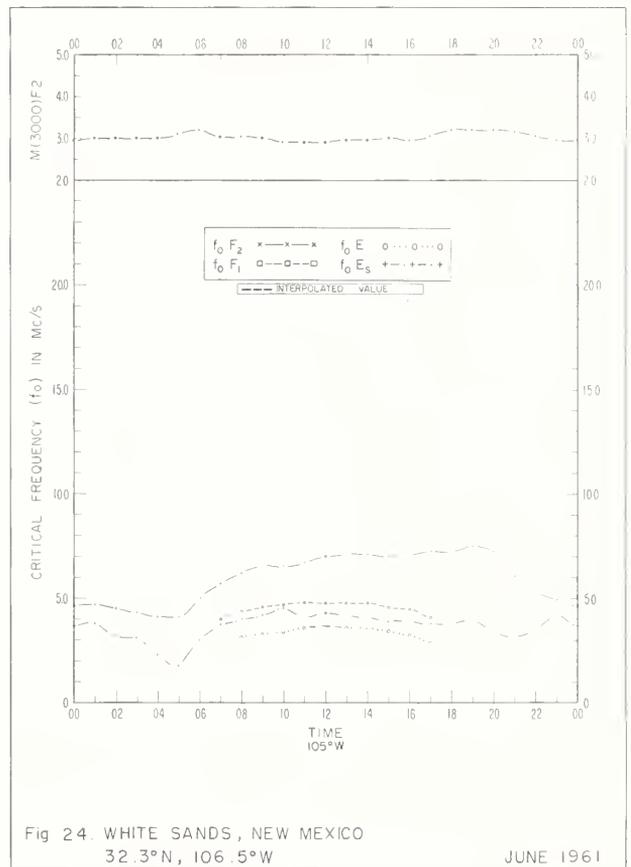
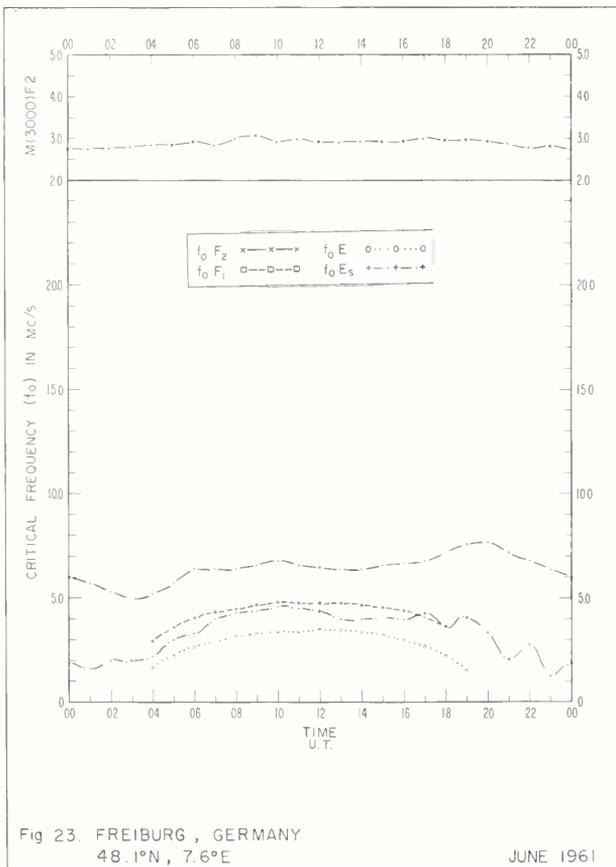
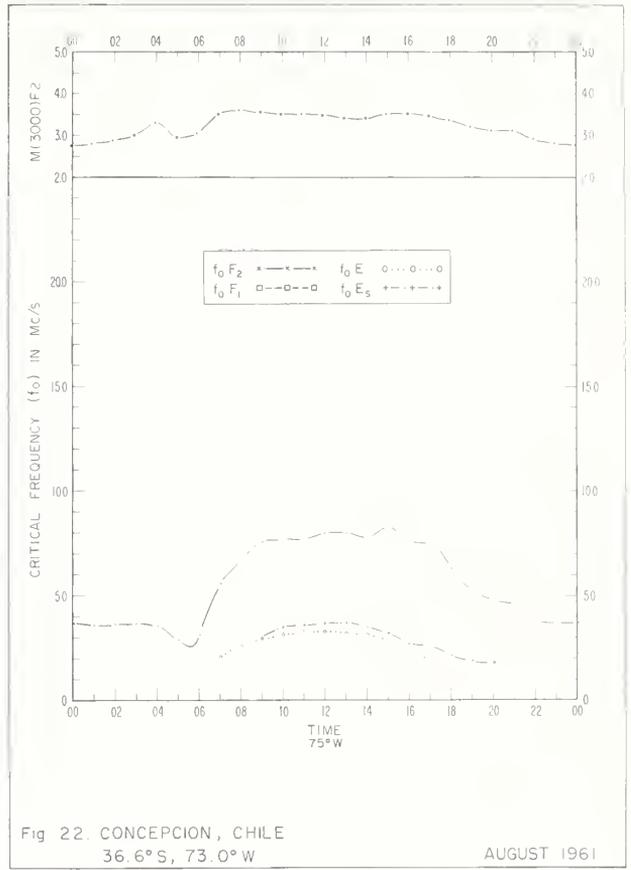
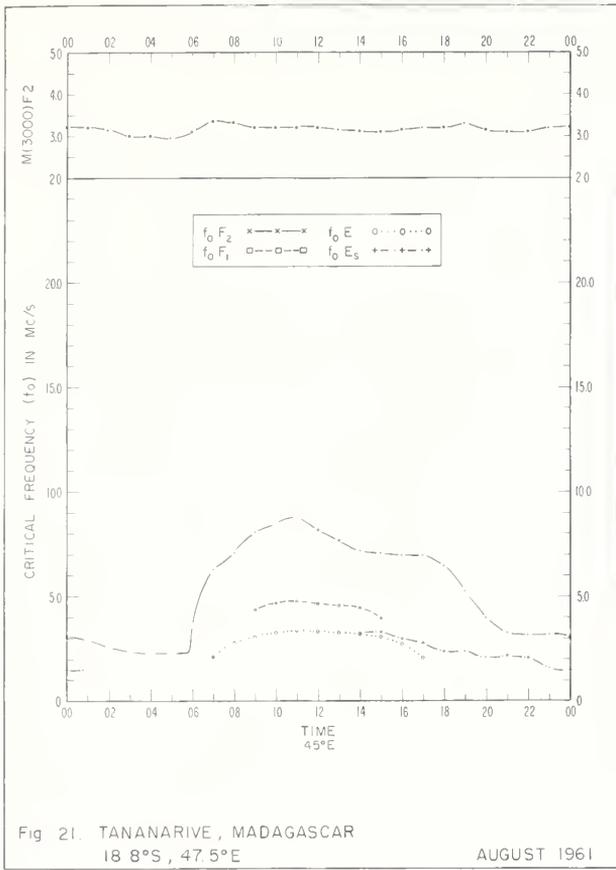
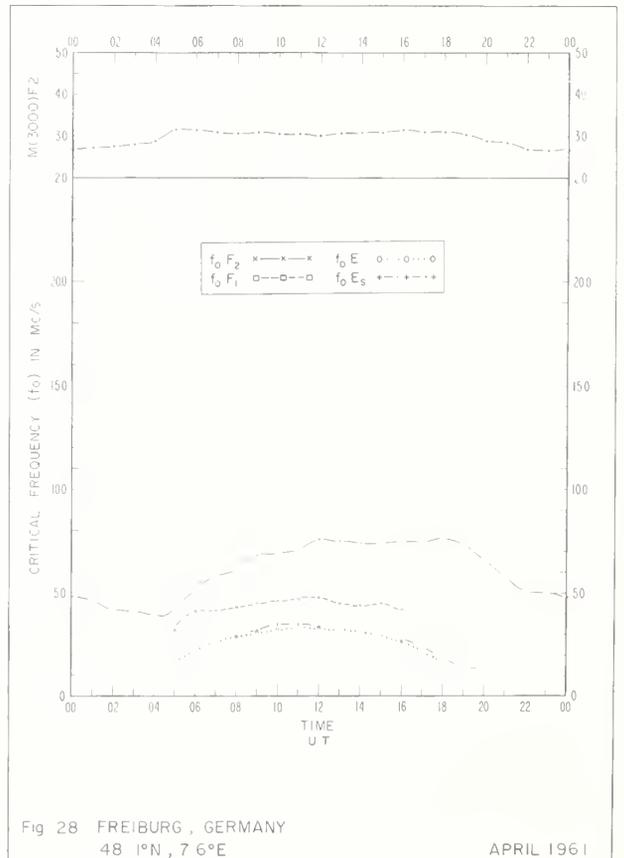
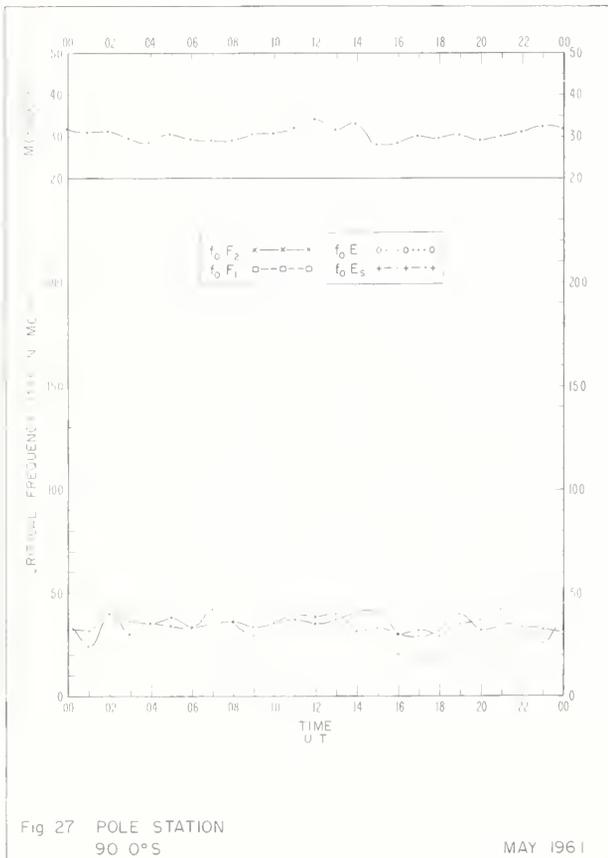
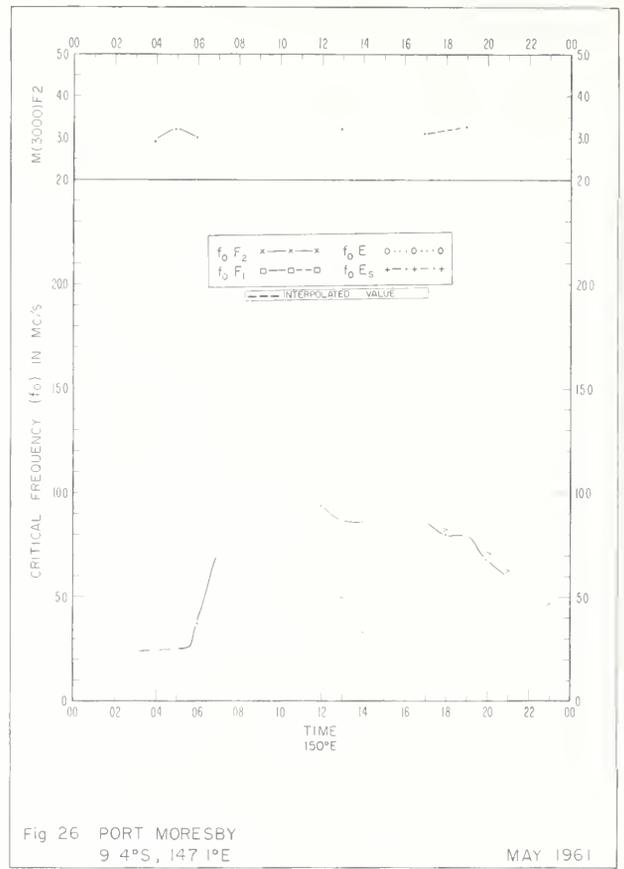
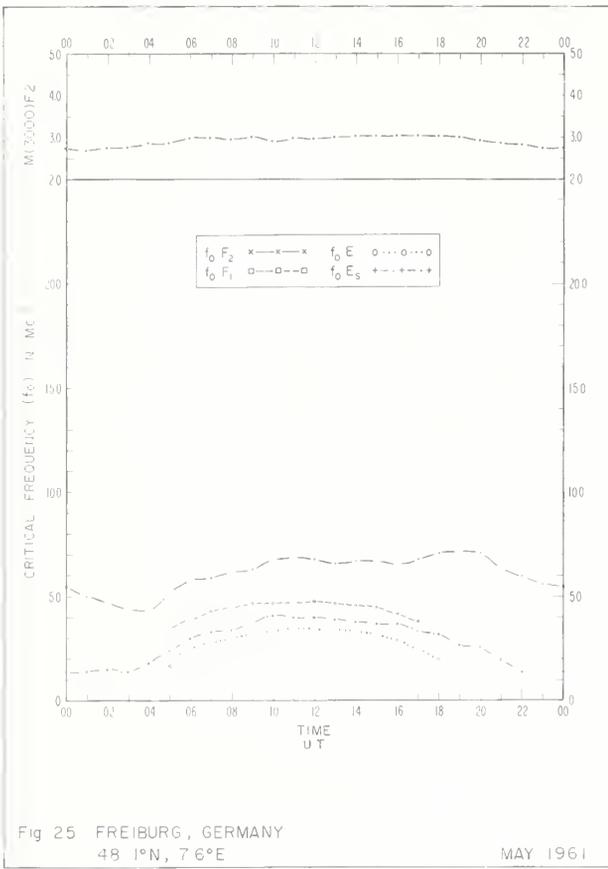


Fig 16. GODHAVN, GREENLAND
69.3°N, 53.5°W
AUGUST 1961







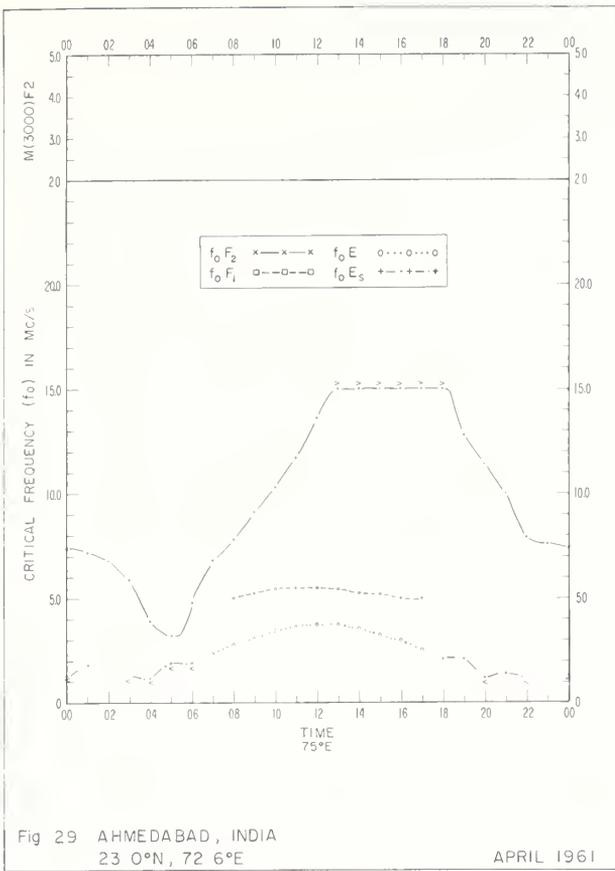


Fig 29 AHMEDABAD, INDIA
23 0°N, 72 6°E

APRIL 1961

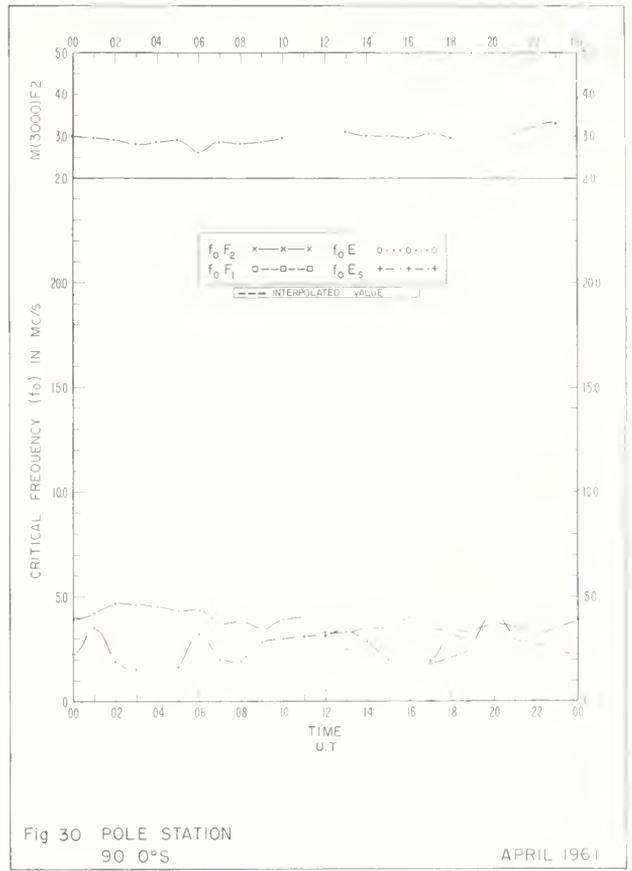


Fig 30 POLE STATION
90 0°S

APRIL 1961

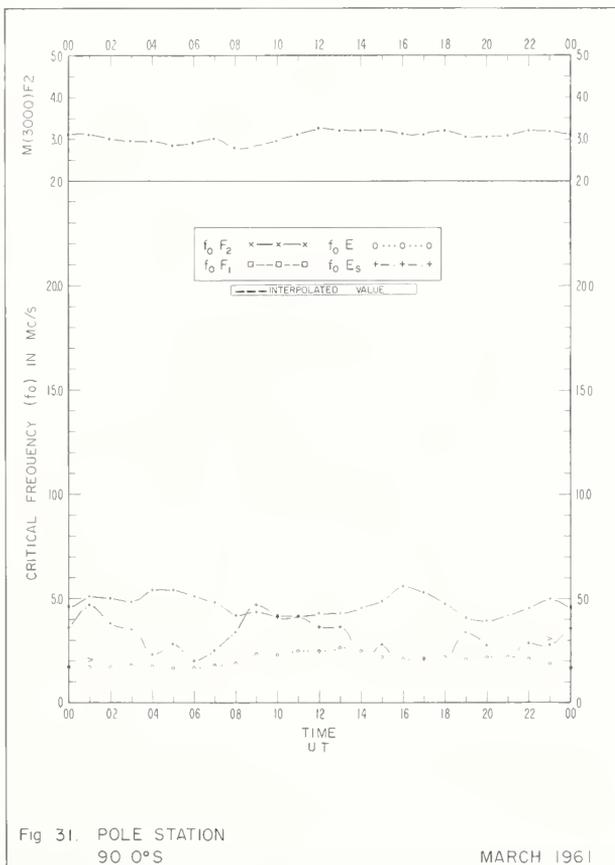


Fig 31. POLE STATION
90 0°S

MARCH 1961

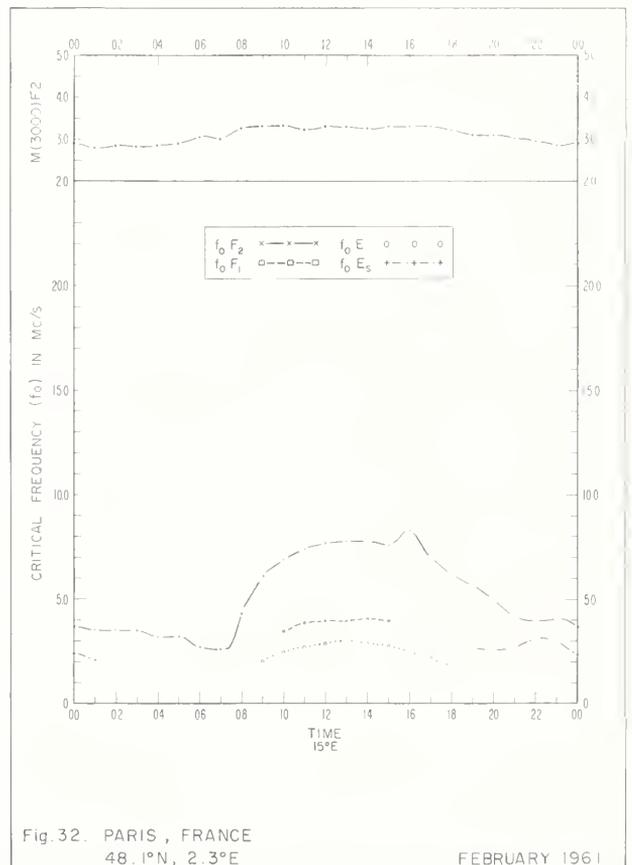
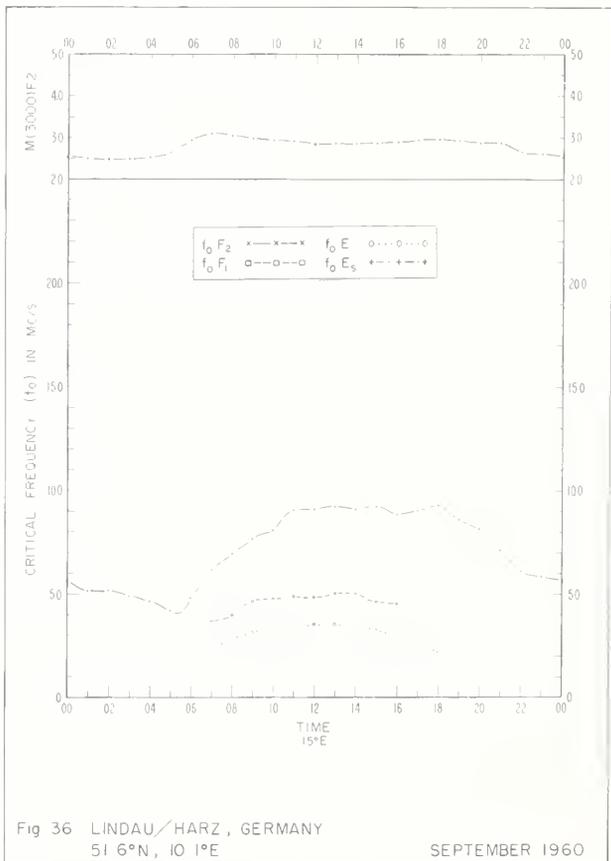
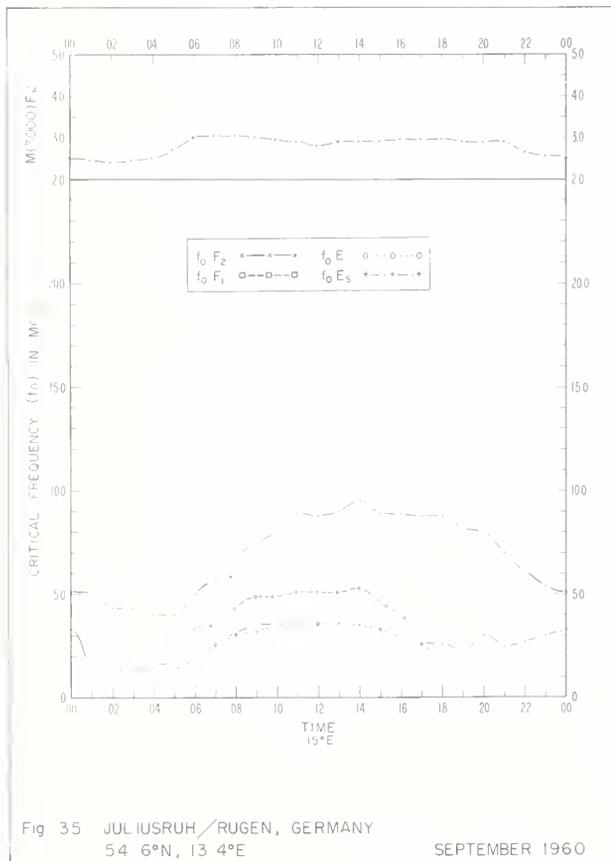
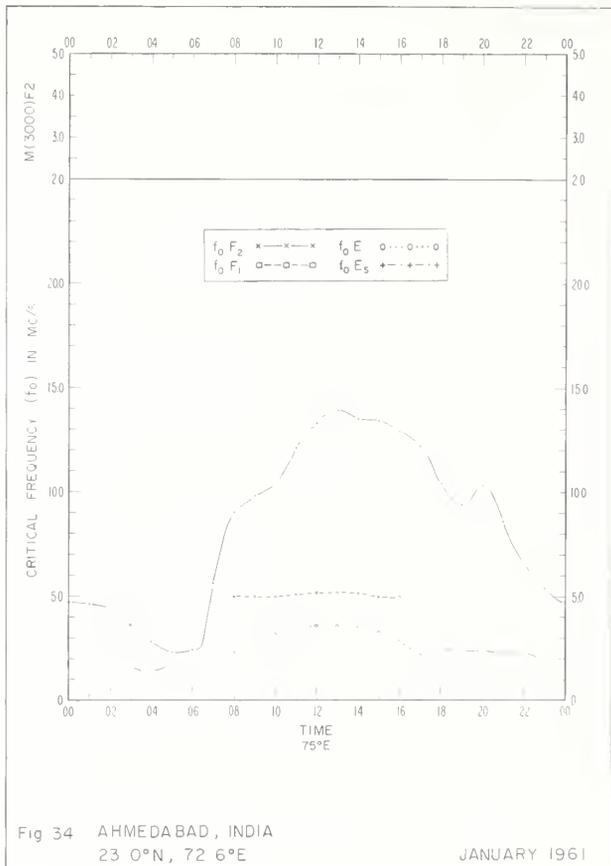
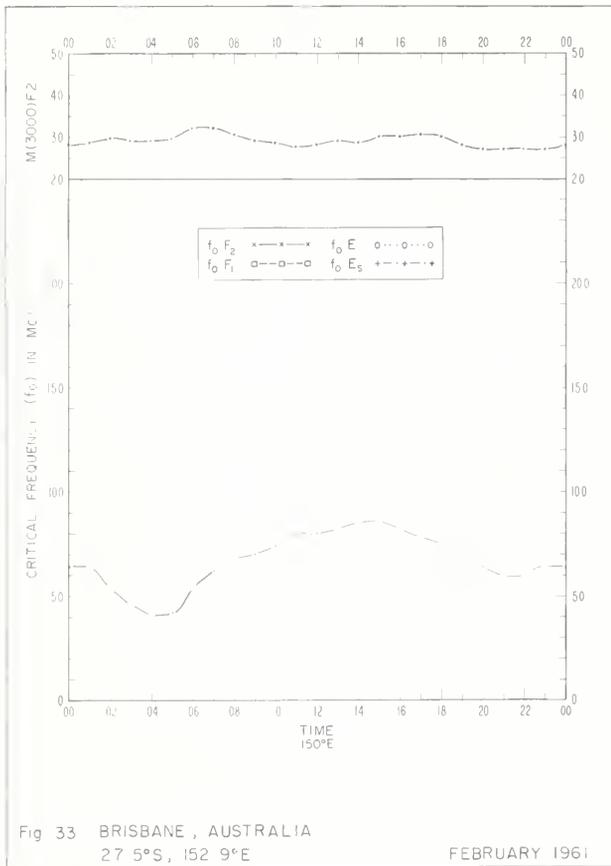


Fig. 32. PARIS, FRANCE
48. 1°N, 2.3°E

FEBRUARY 1961



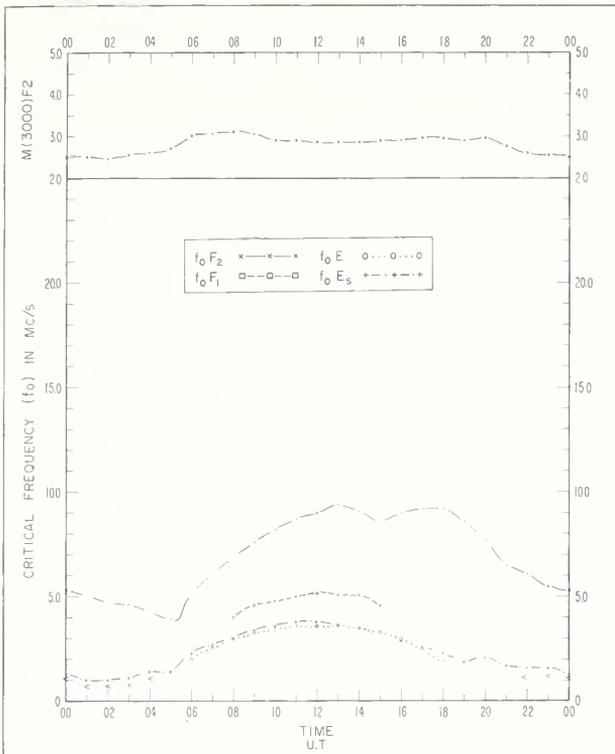


Fig 37. SLOUGH, ENGLAND
51 5°N, 0 6°W

SEPTEMBER 1960

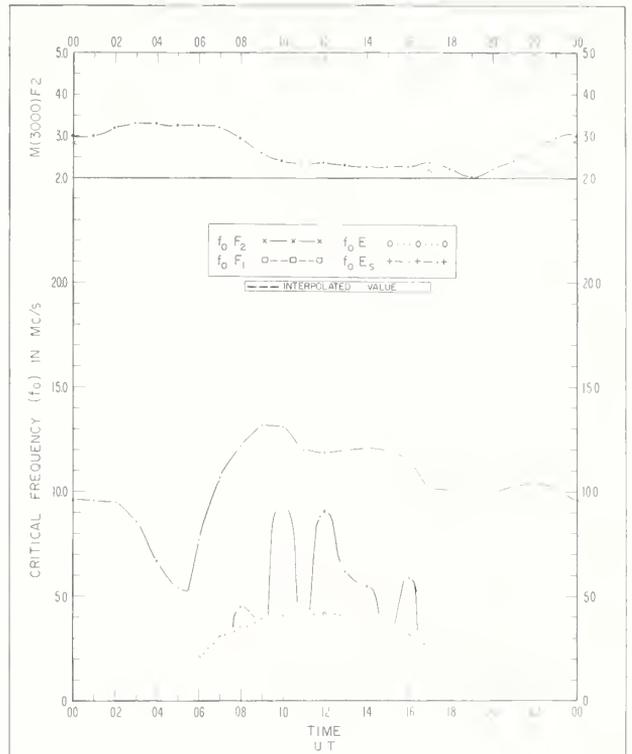


Fig 38 IBADAN, NIGERIA
7 4°N, 3 9°E

SEPTEMBER 1960

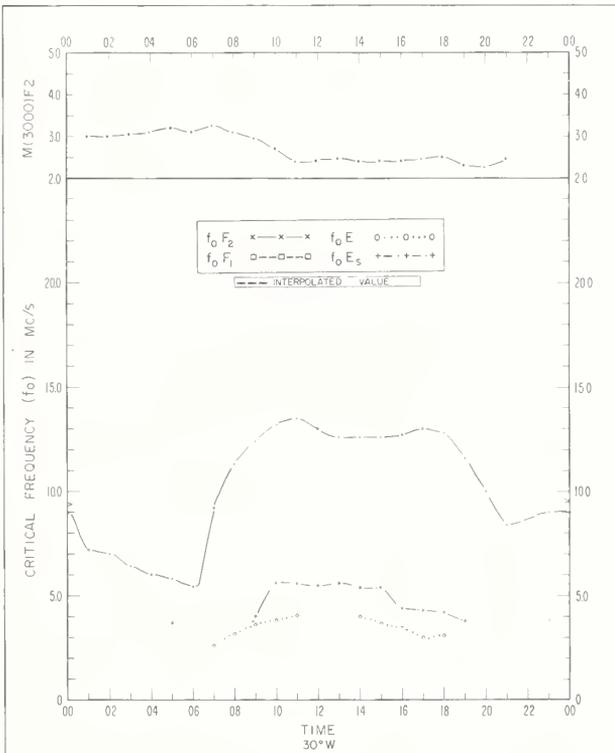


Fig. 39. NATAL, BRAZIL
5.7°S, 35.2°W

SEPTEMBER 1960

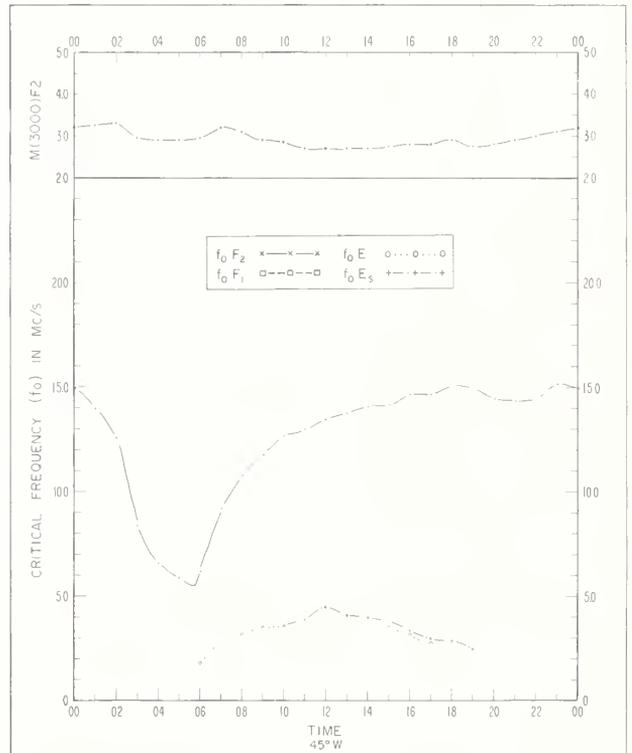


Fig 40. SAO PAULO, BRAZIL
23.5°S, 46.5°W

SEPTEMBER 1960

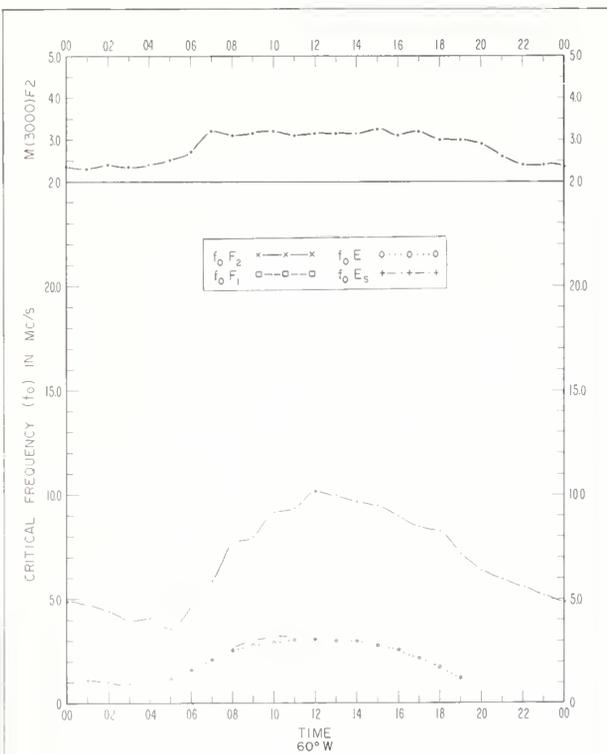


Fig 41. PORT LOCKROY
64 8°S, 63 5°W
SEPTEMBER 1960

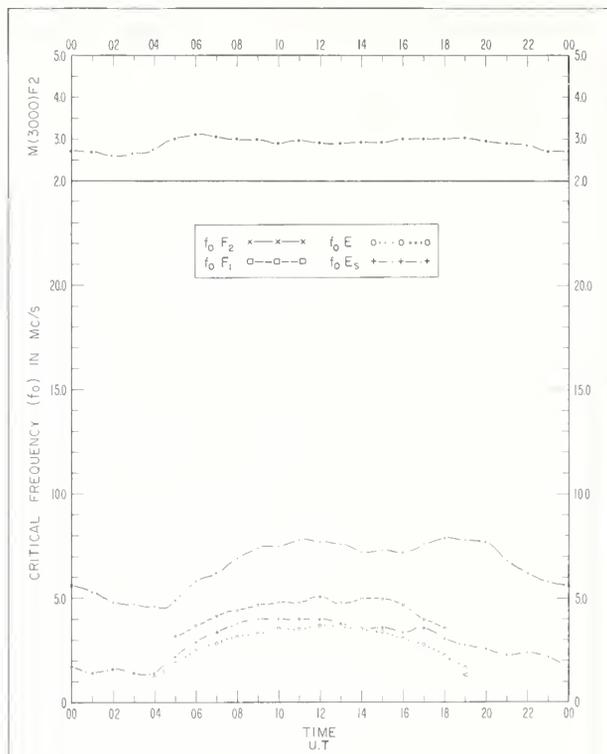


Fig 42. DOURBES, BELGIUM
50.1°N, 4 6°E
AUGUST 1960

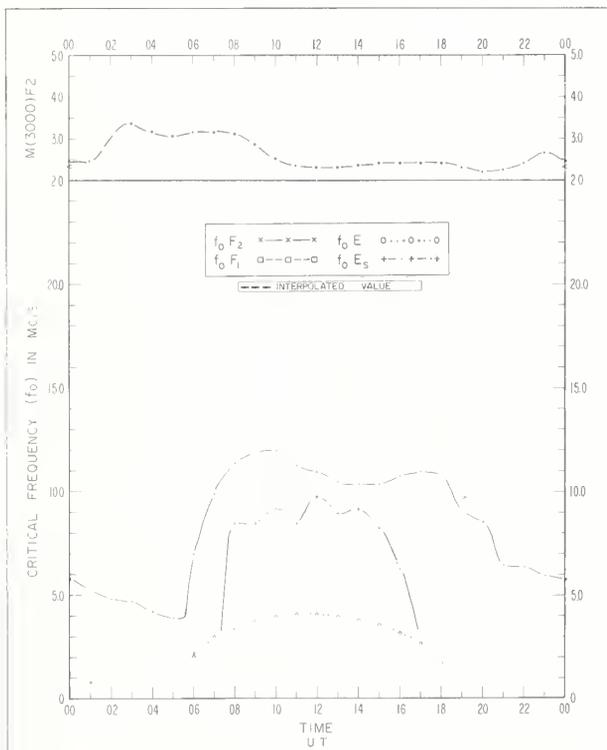


Fig 43. IBADAN, NIGERIA
7 4°N, 3.9°E
JULY 1960

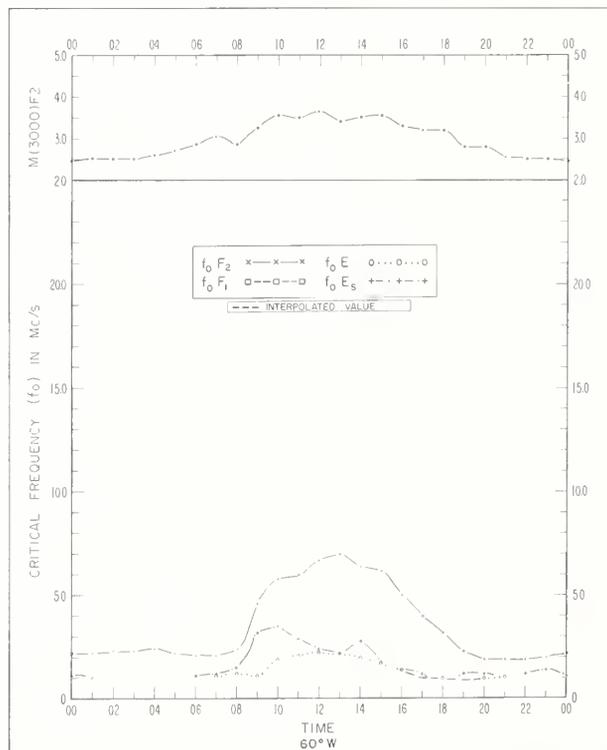
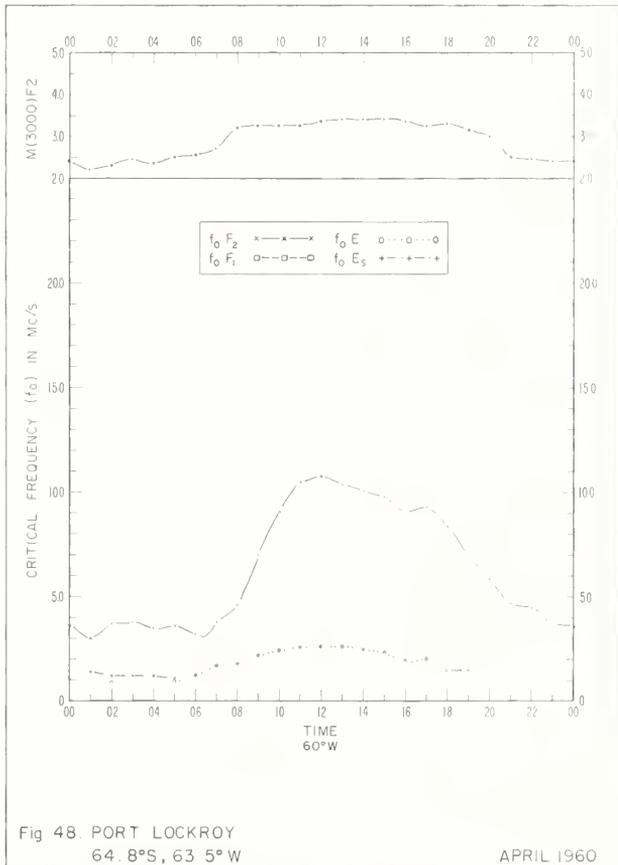
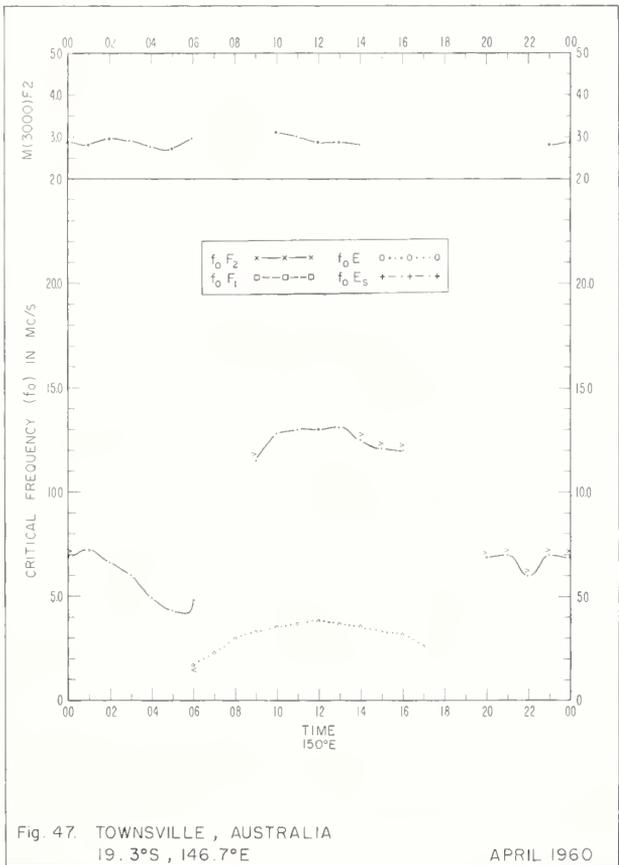
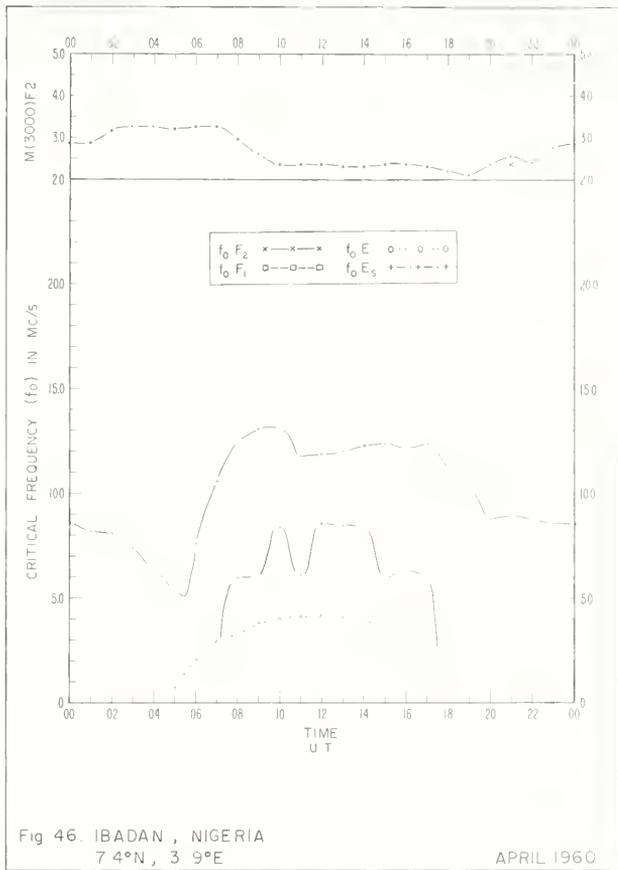
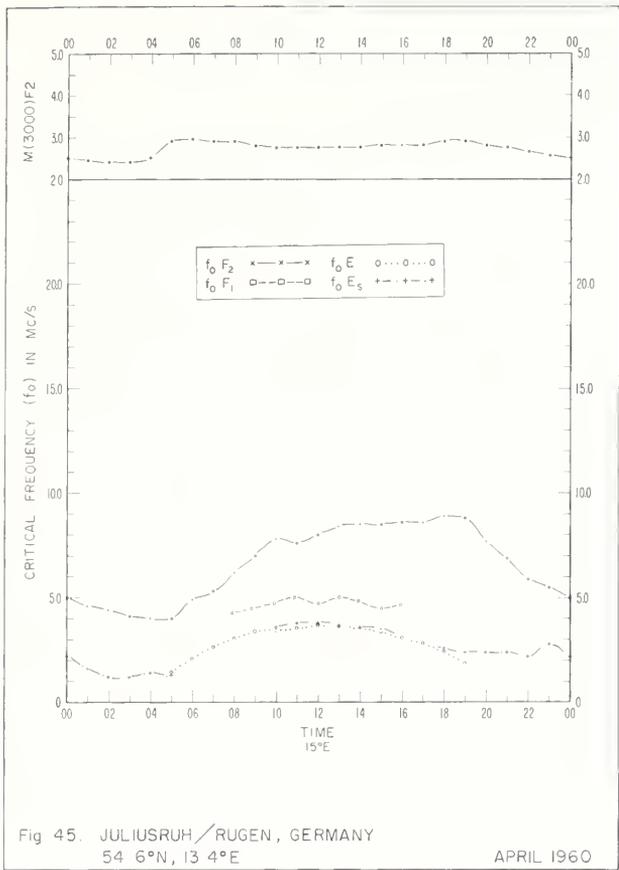
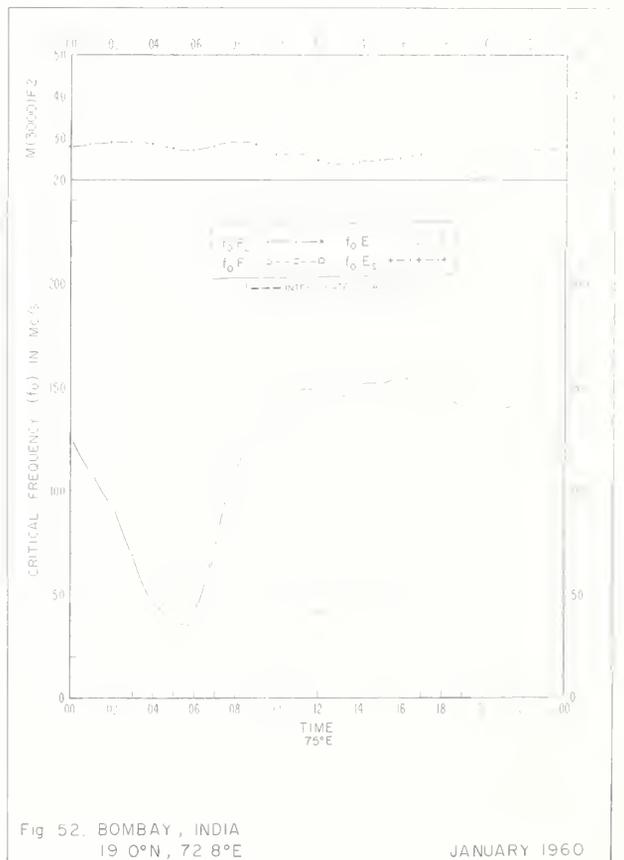
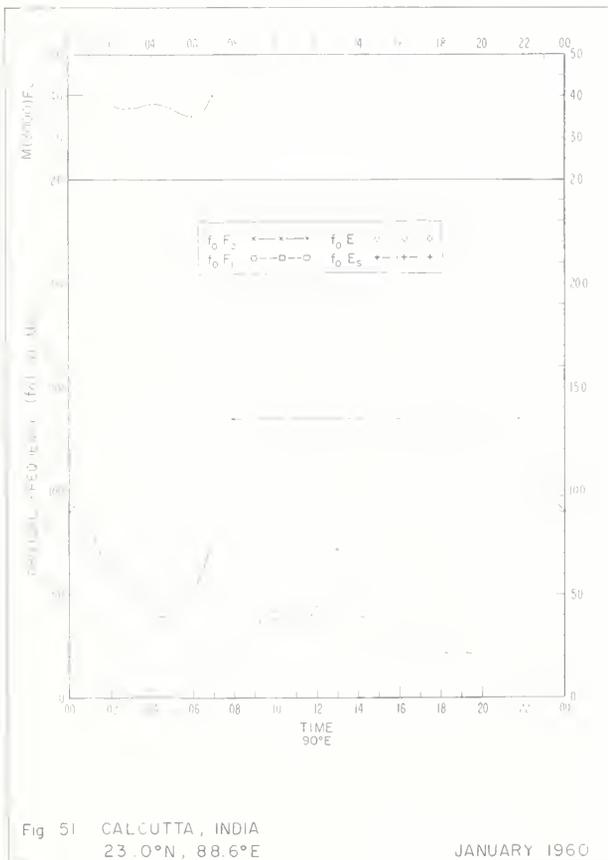
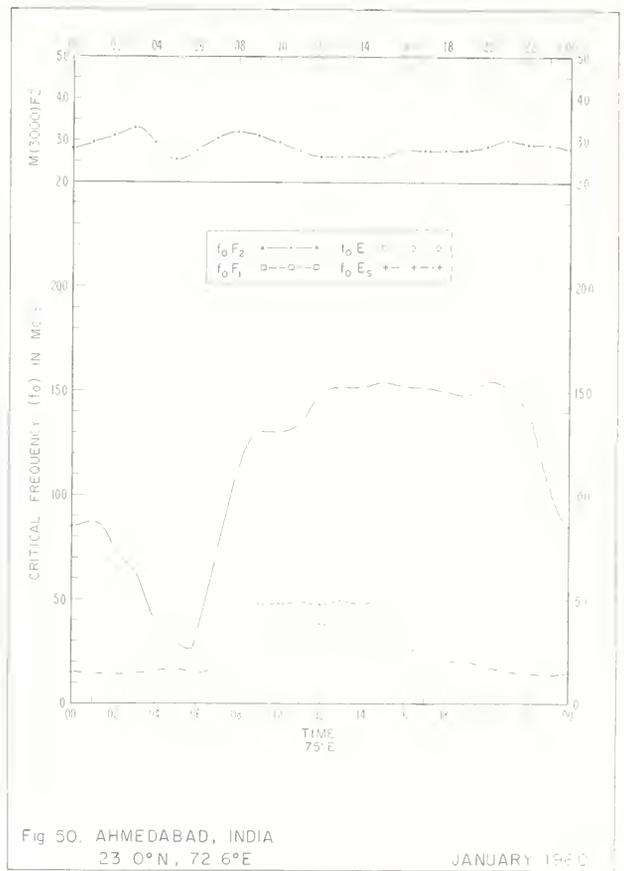
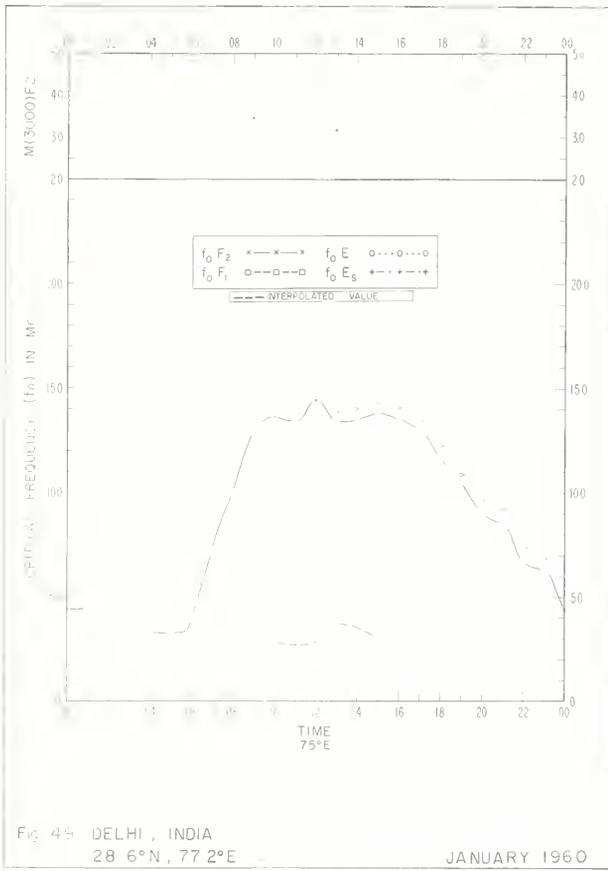
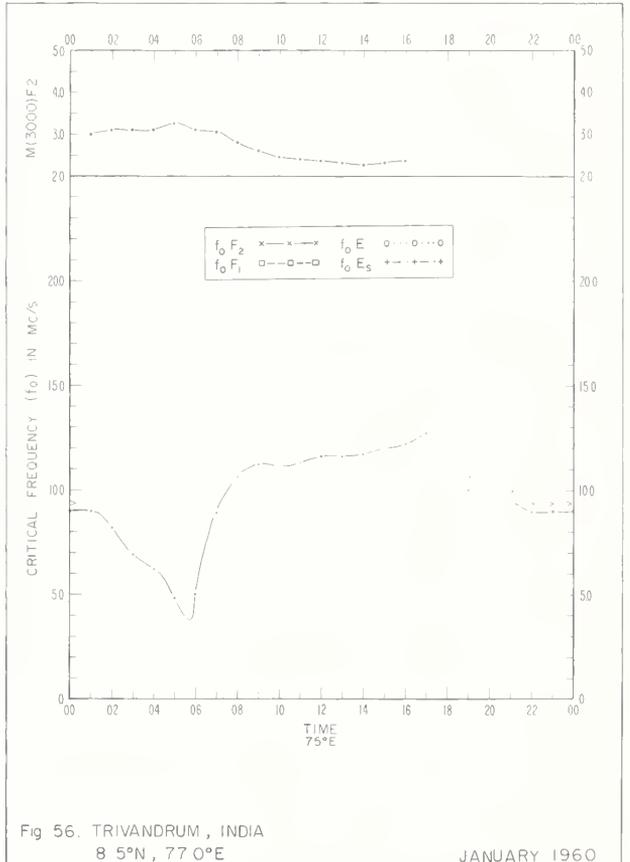
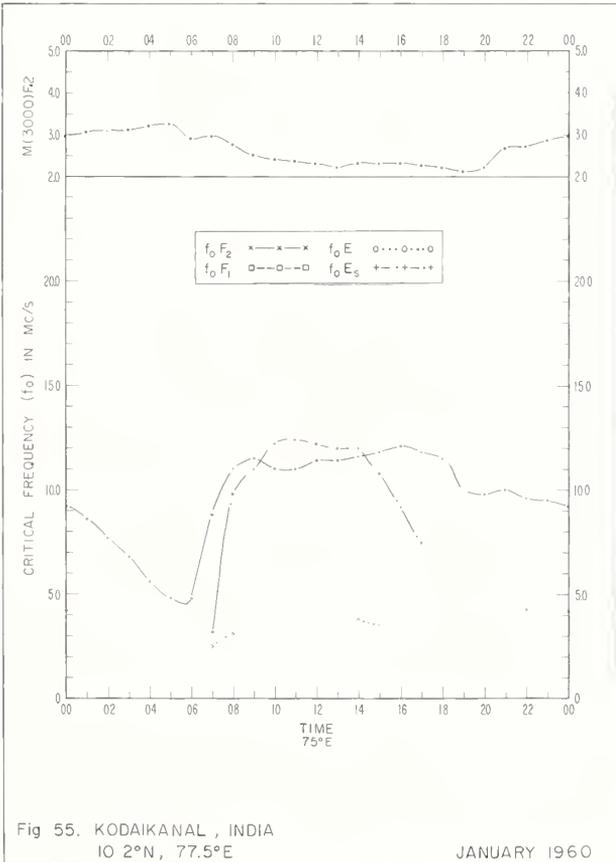
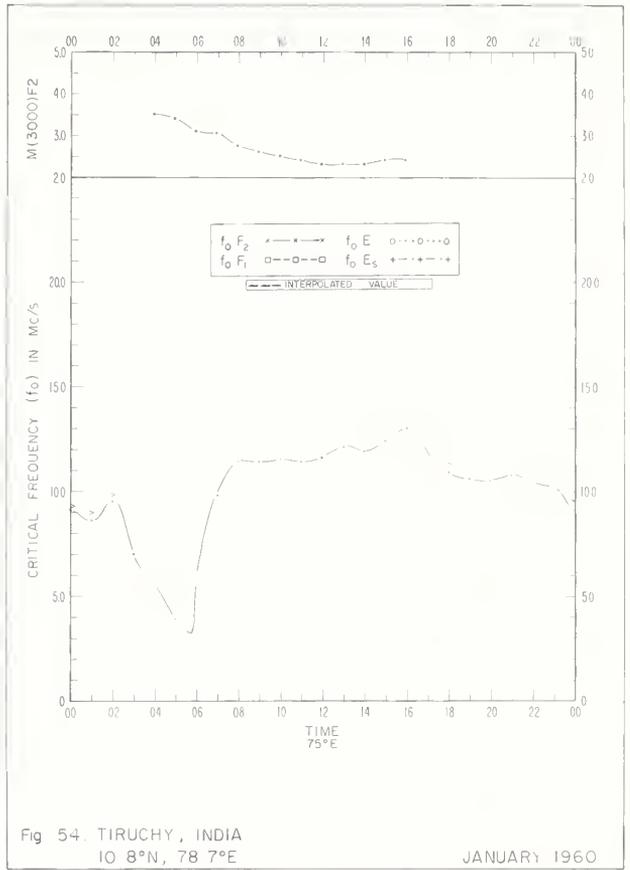
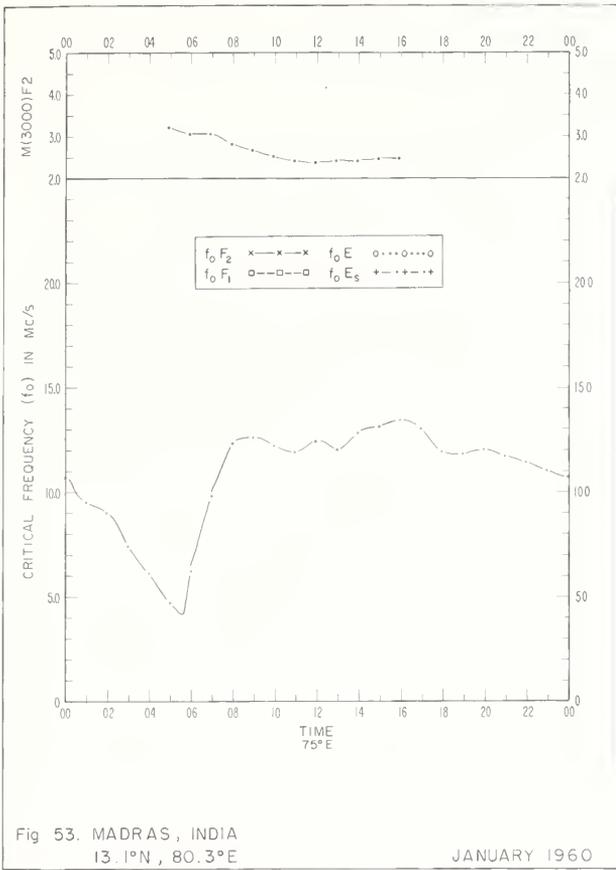
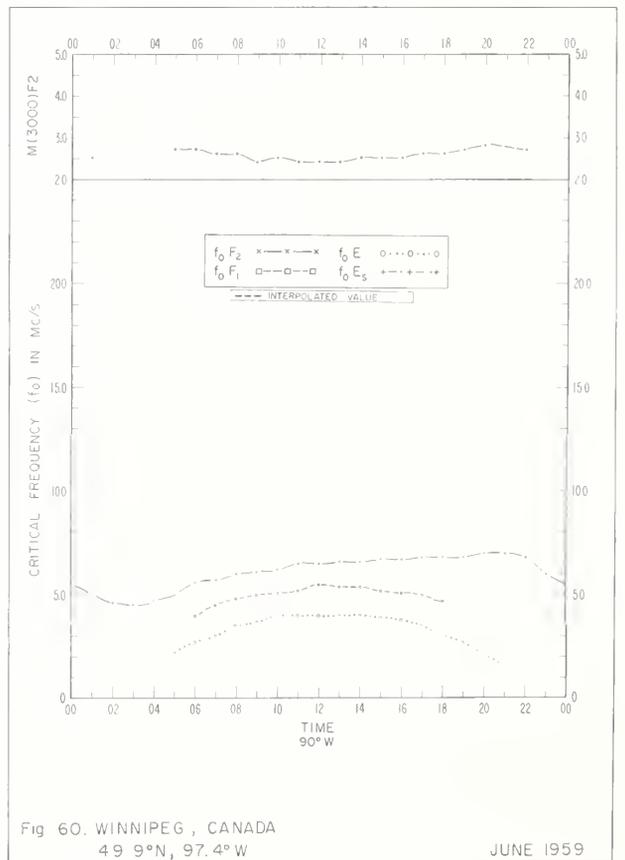
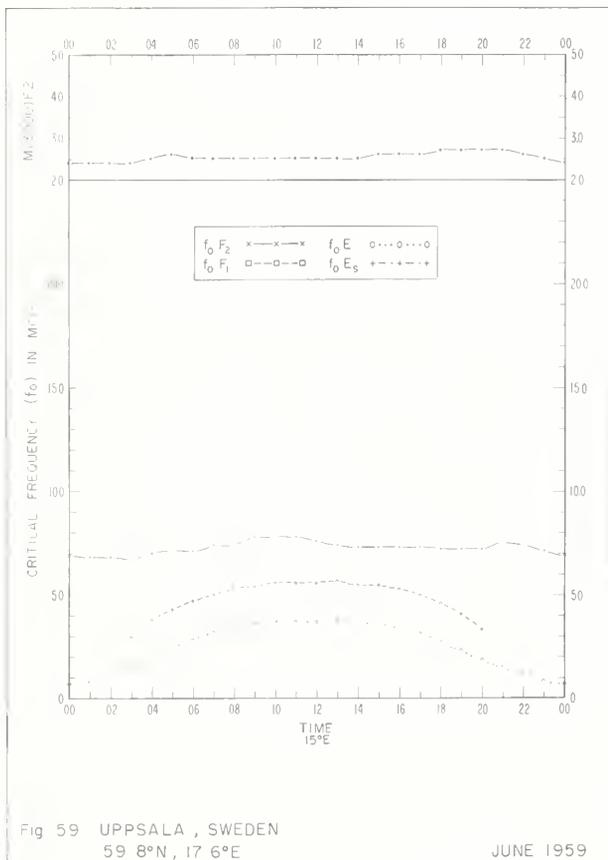
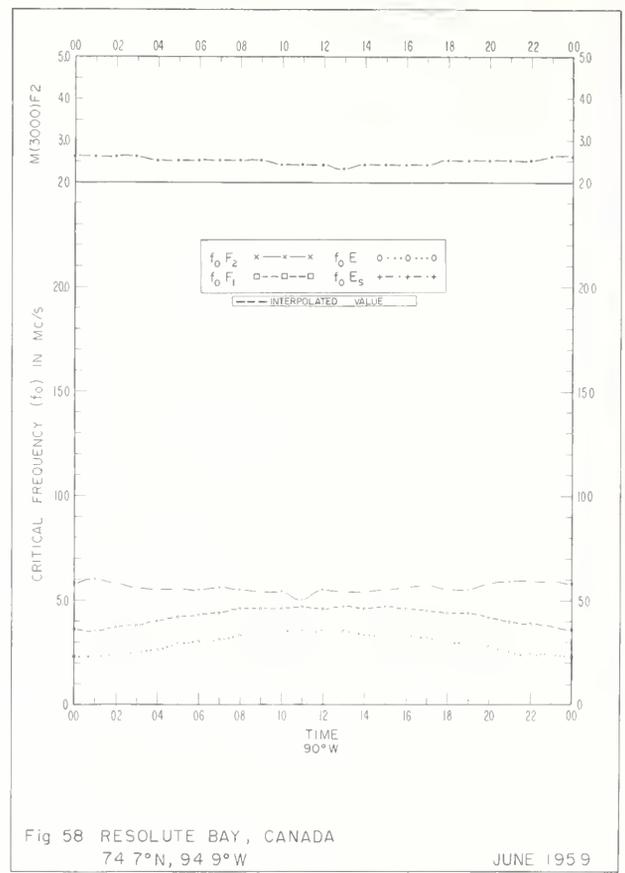
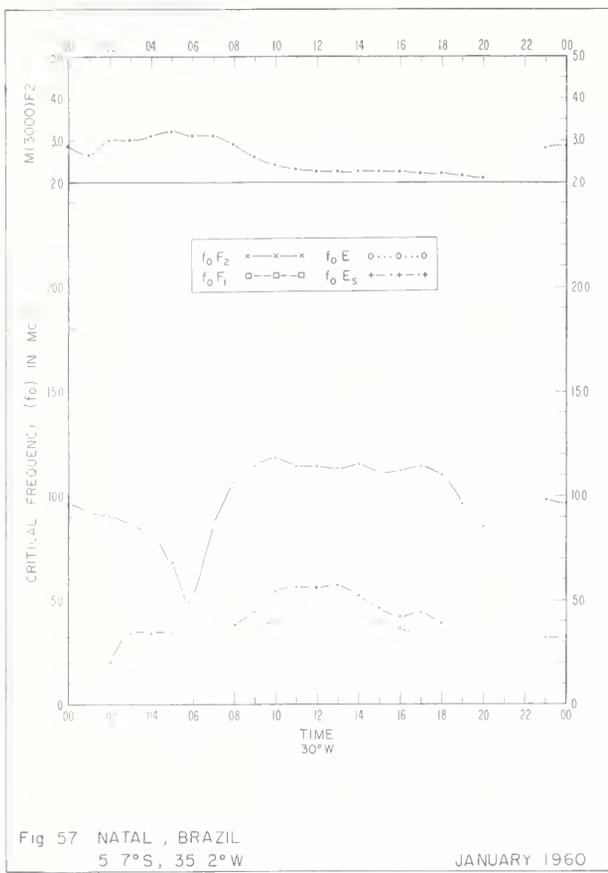


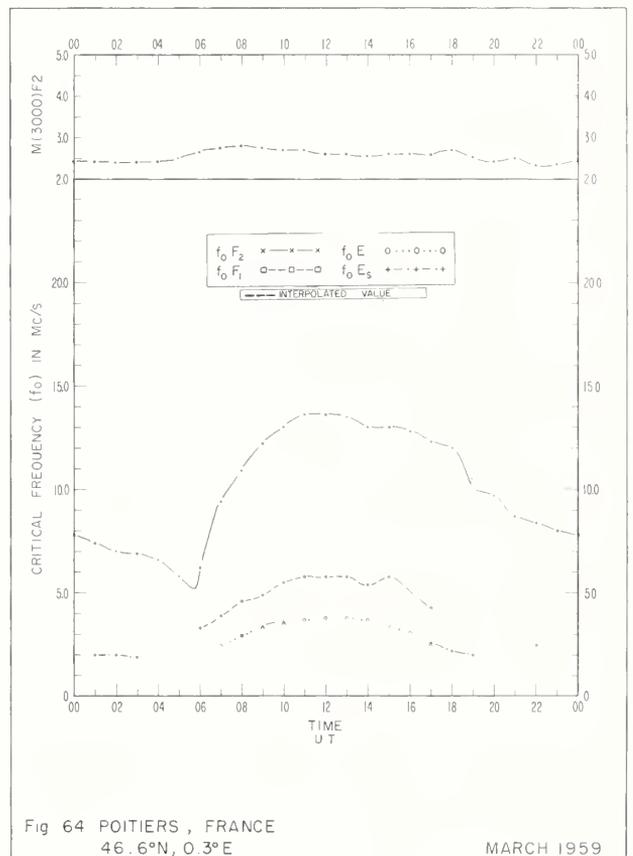
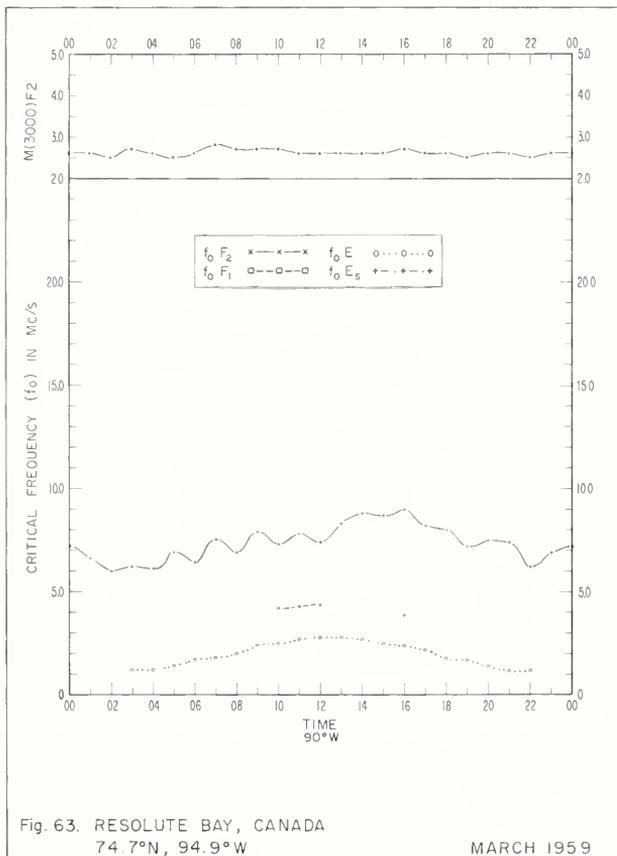
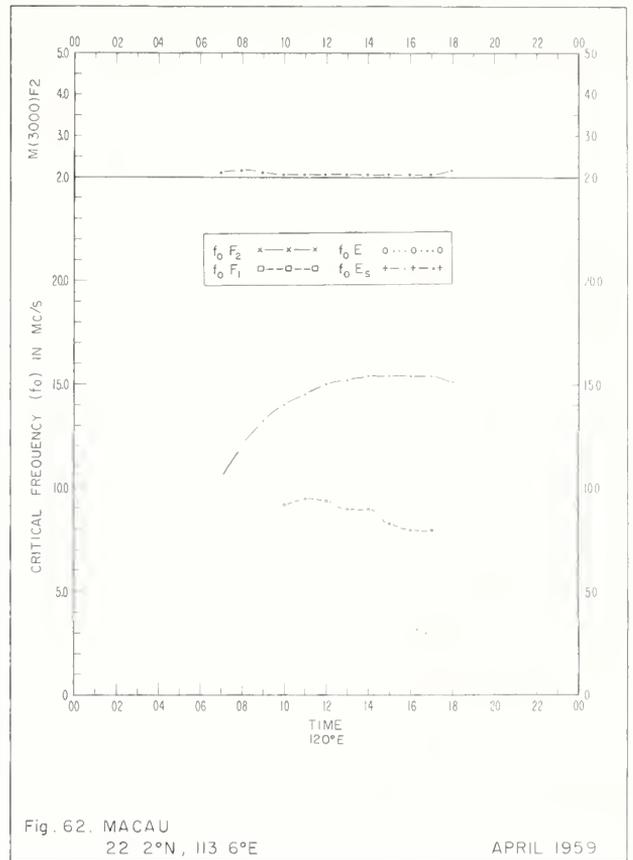
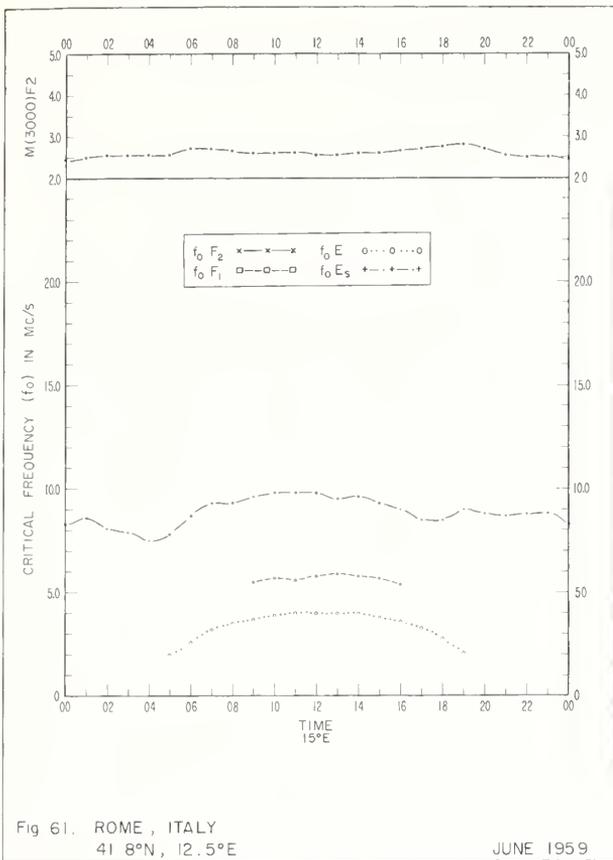
Fig 44. PORT LOCKROY
64. 8°S, 63 5°W
JULY 1960

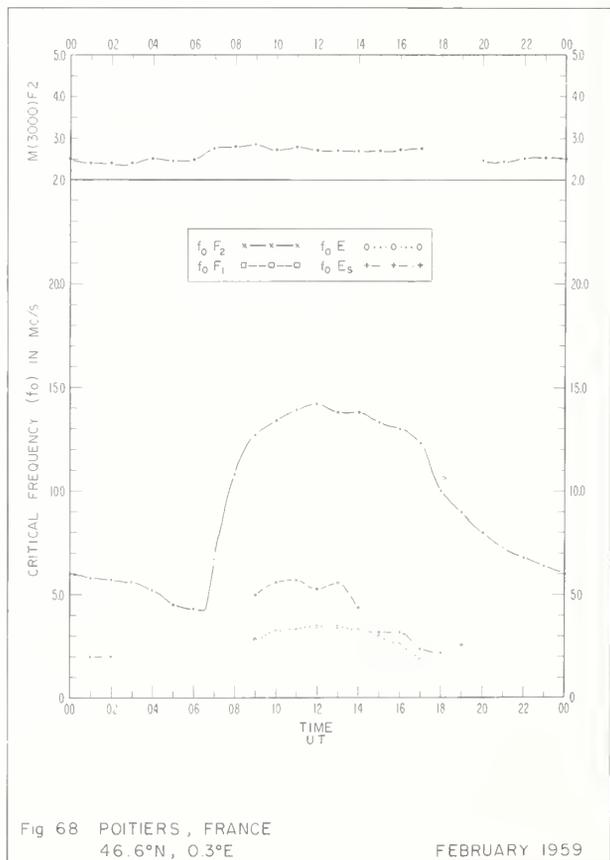
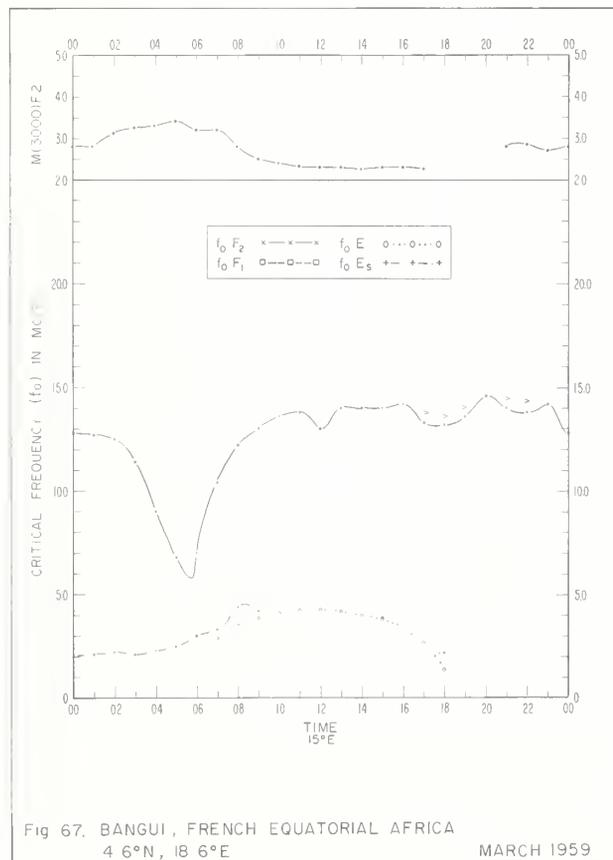
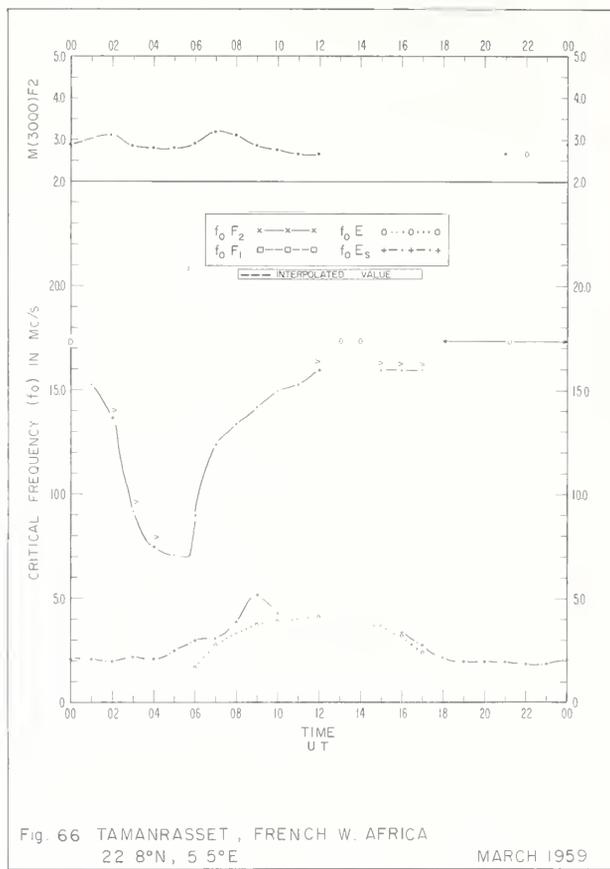
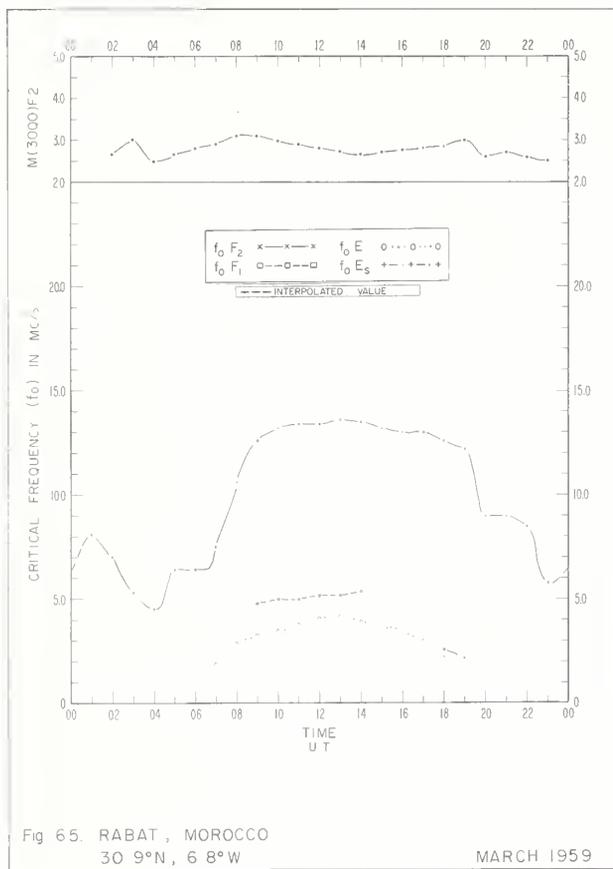


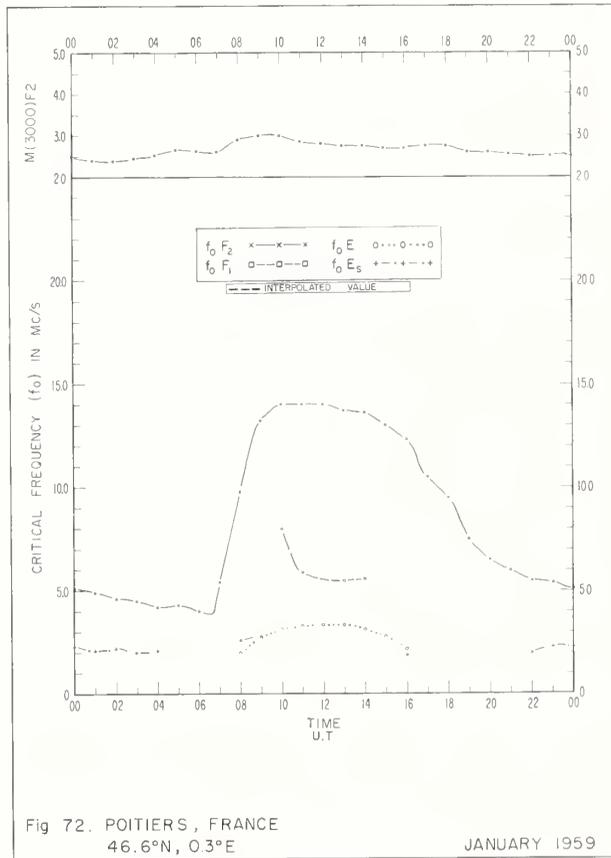
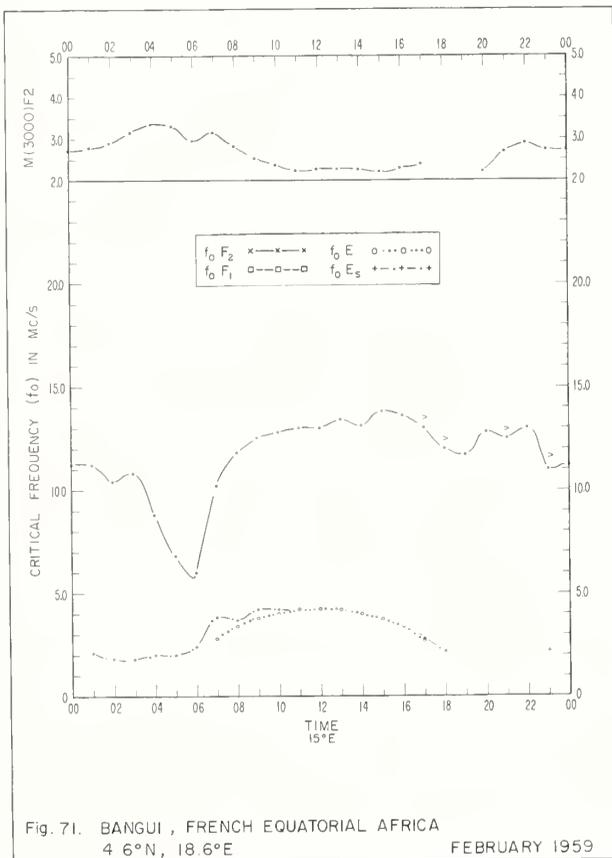
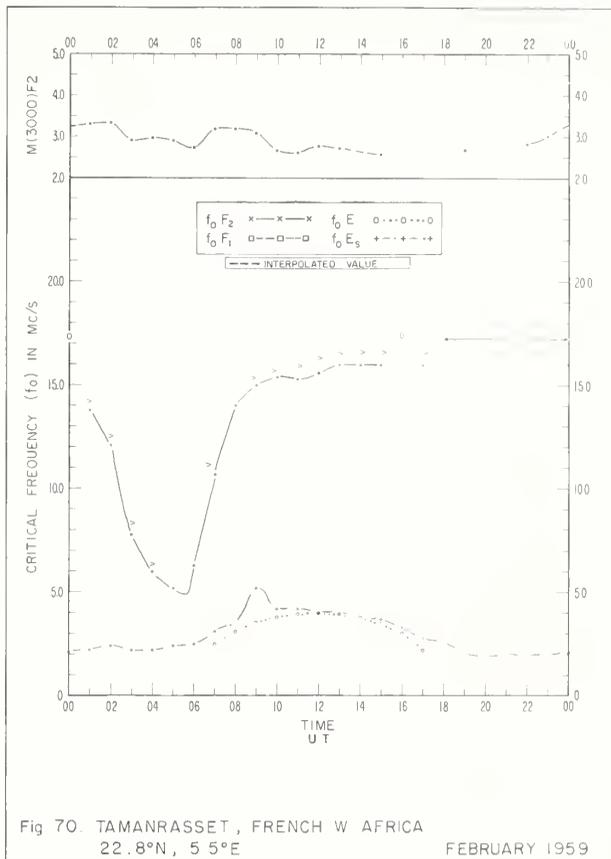
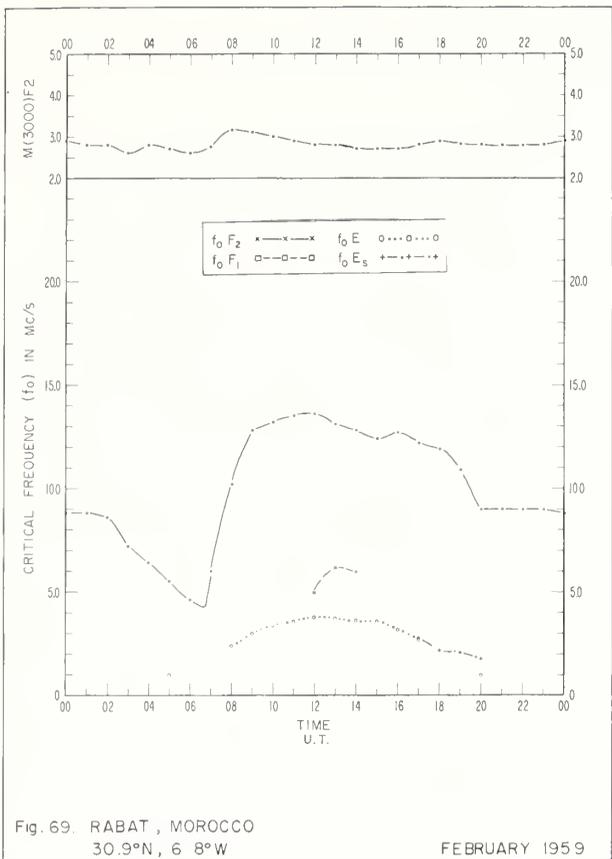












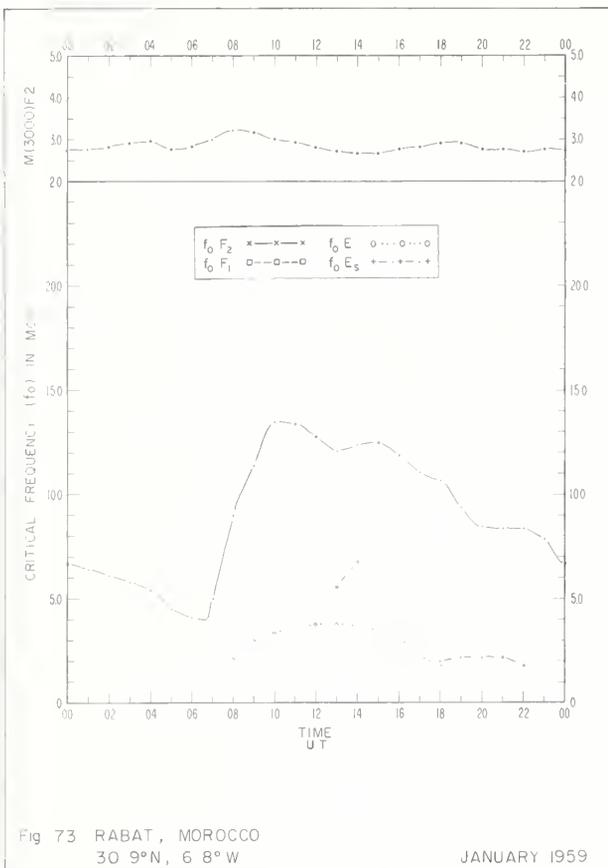


Fig 73 RABAT, MOROCCO
30.9°N, 6.8°W

JANUARY 1959

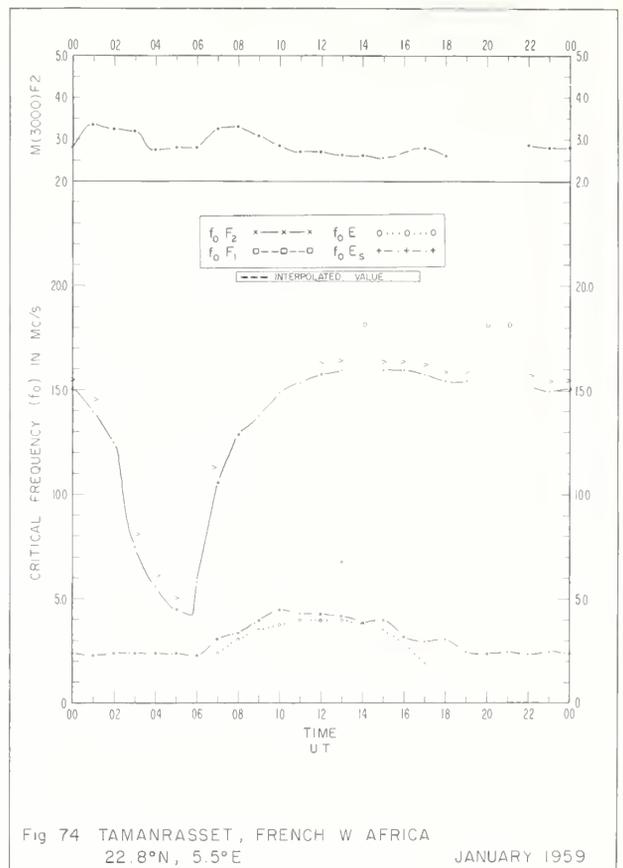


Fig 74 TAMANRASSET, FRENCH W AFRICA
22.8°N, 5.5°E

JANUARY 1959

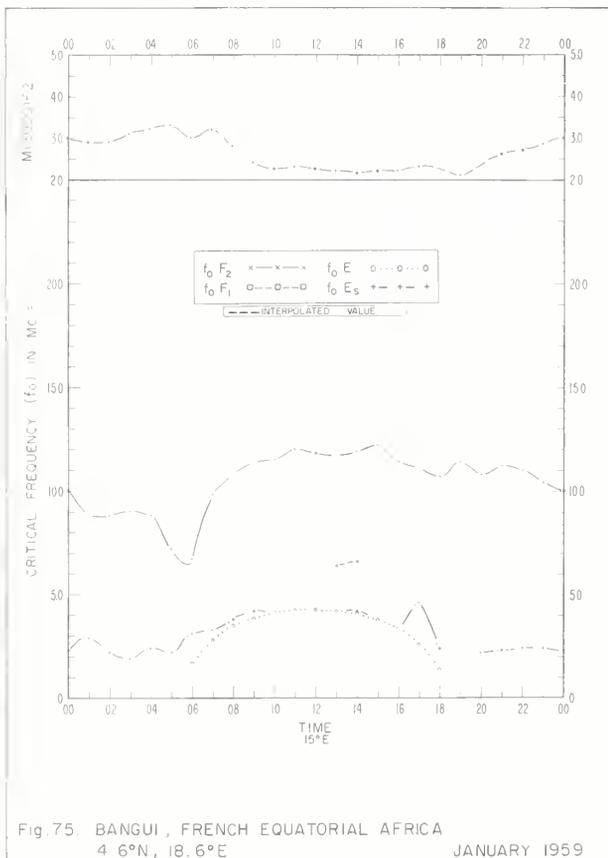


Fig. 75. BANGUI, FRENCH EQUATORIAL AFRICA
4.6°N, 18.6°E

JANUARY 1959

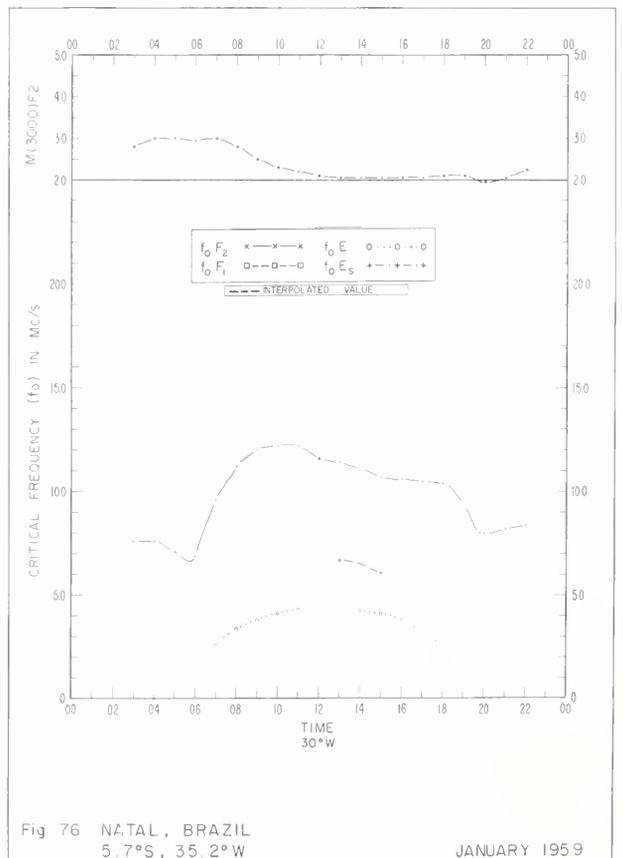
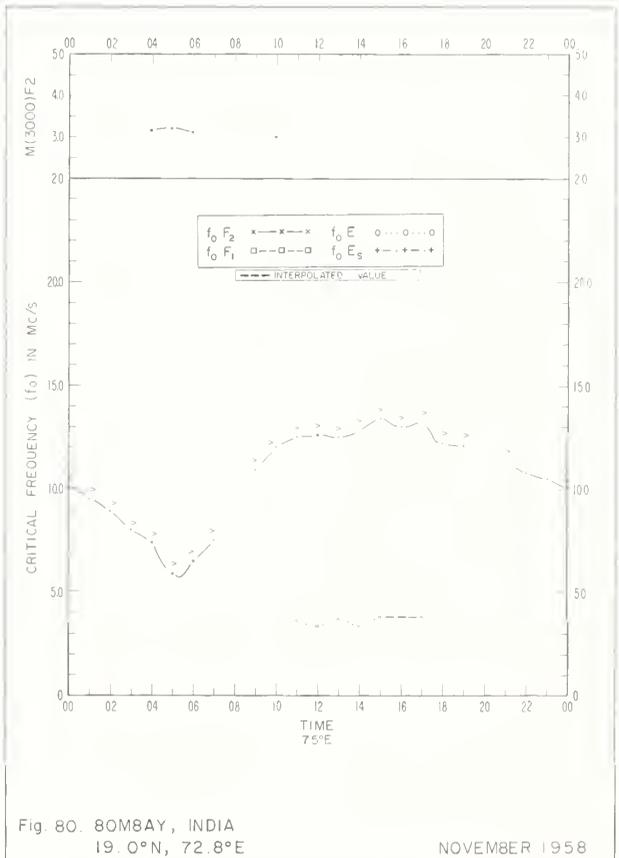
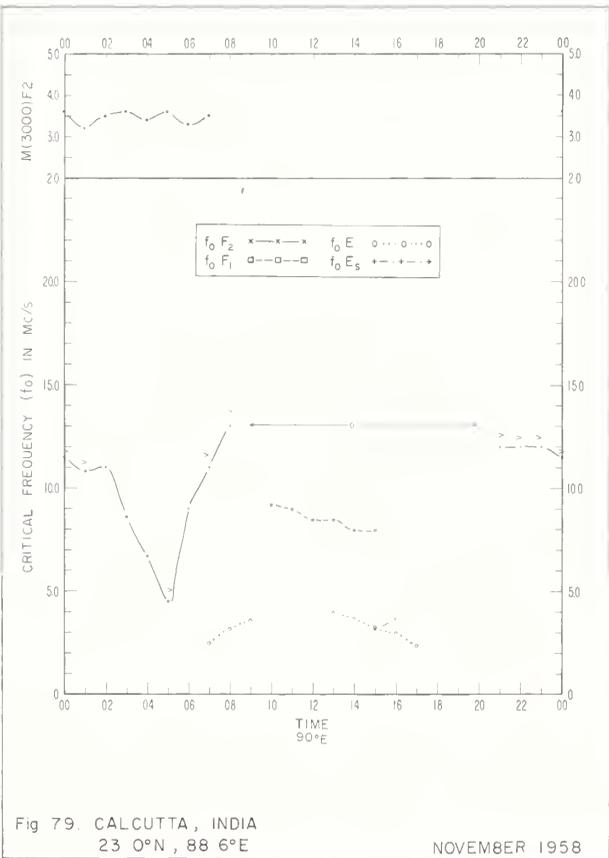
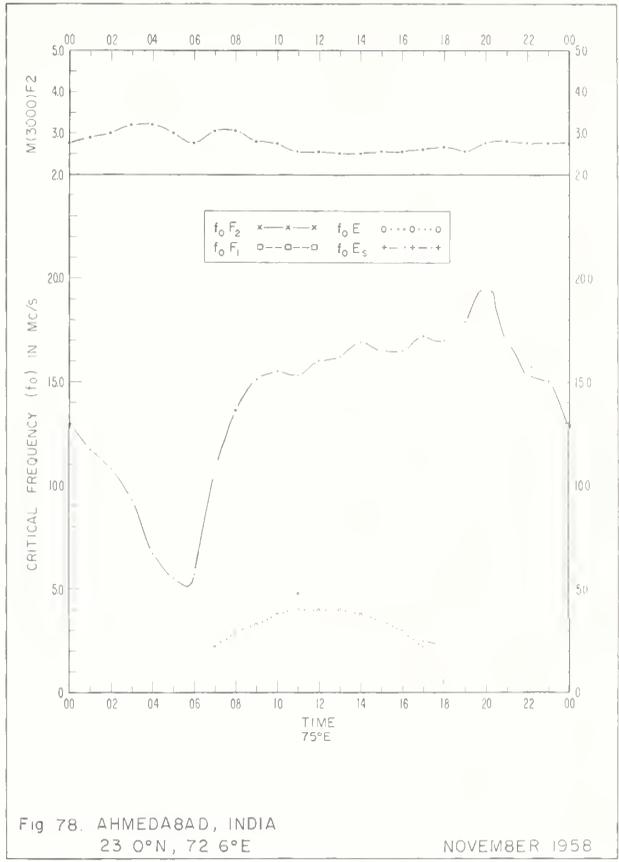
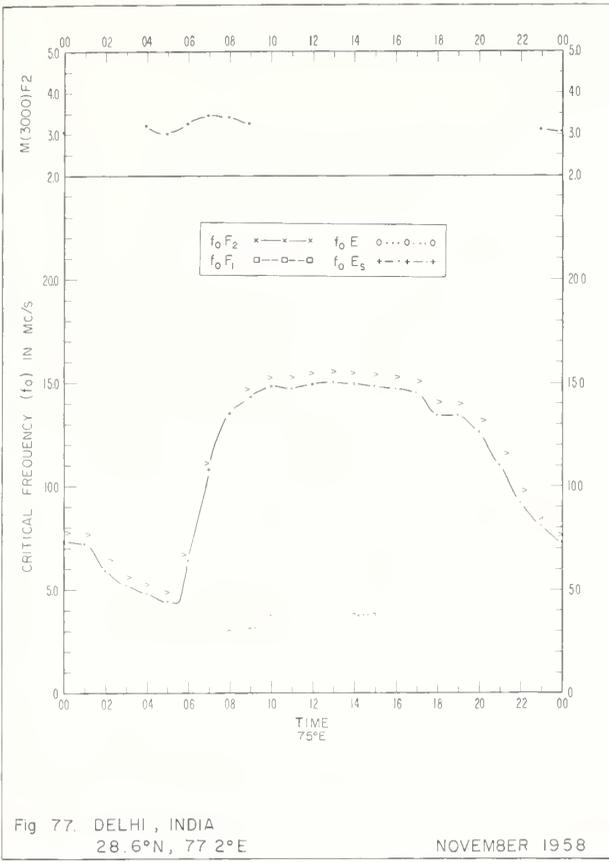
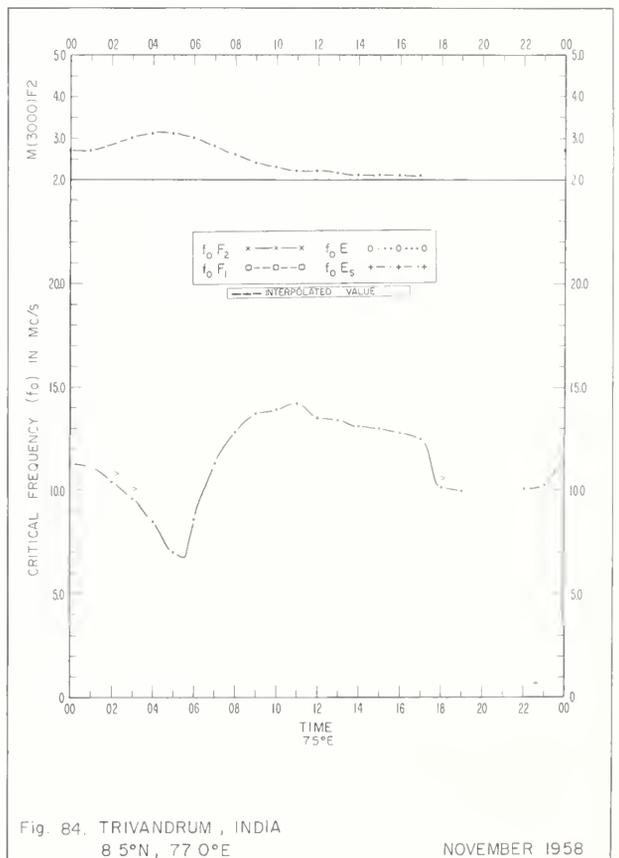
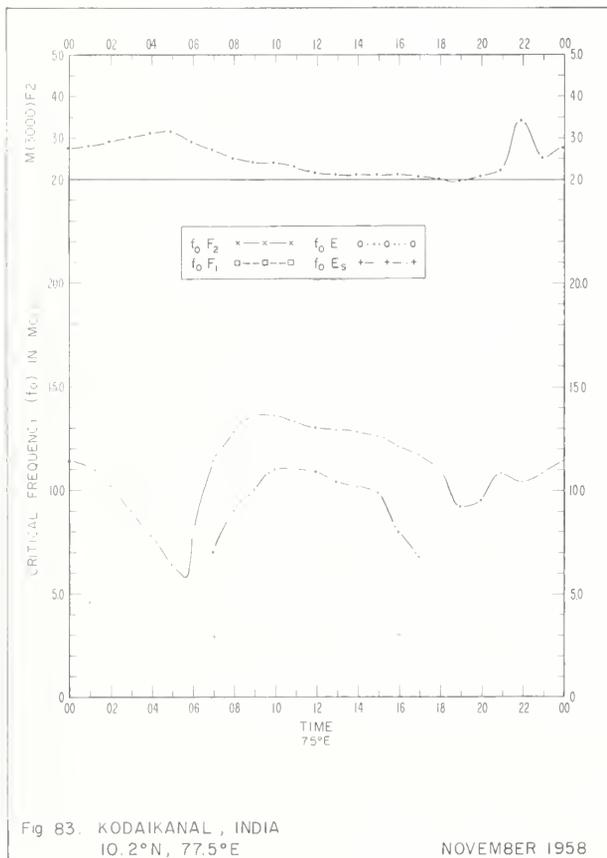
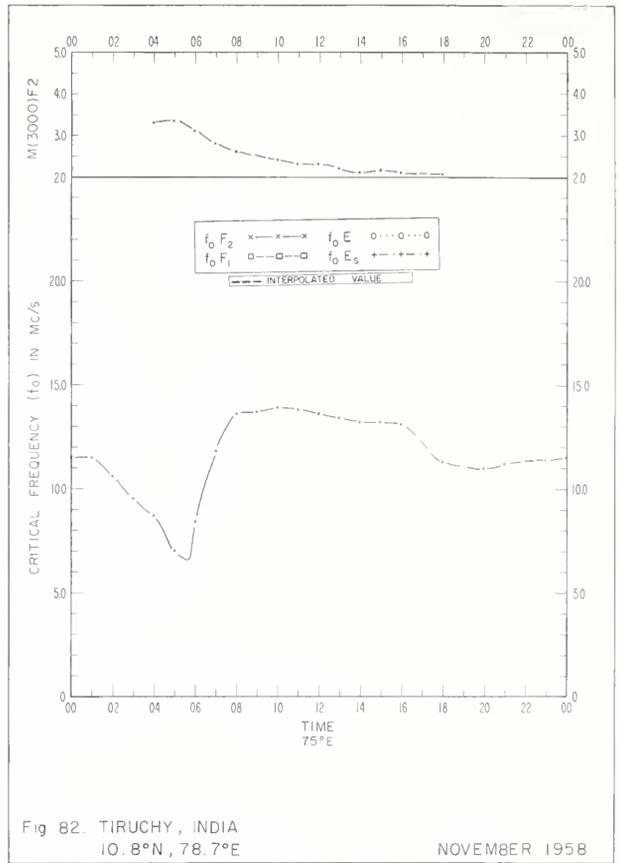
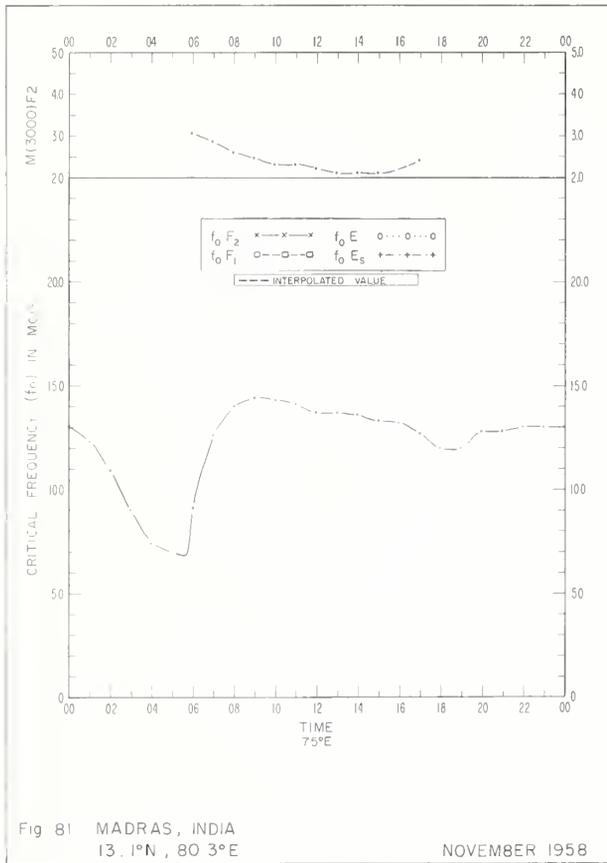
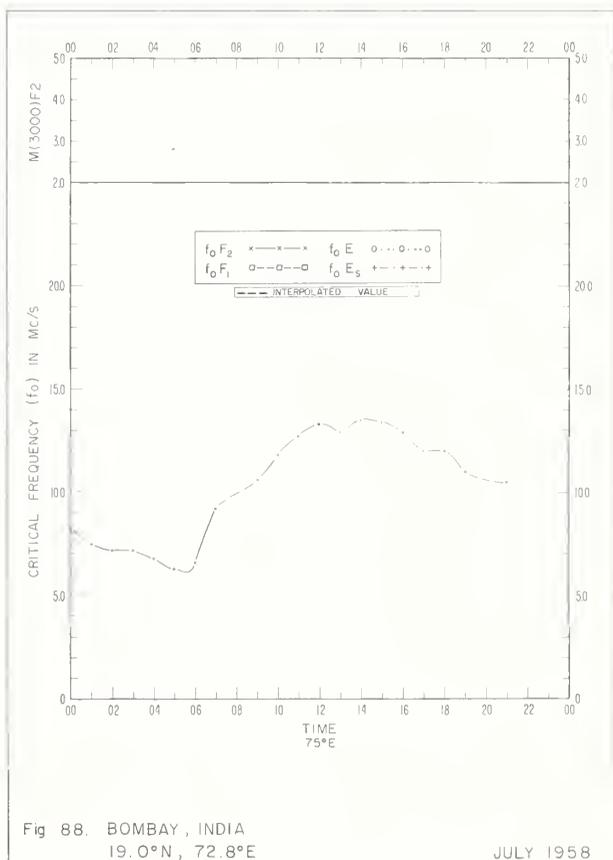
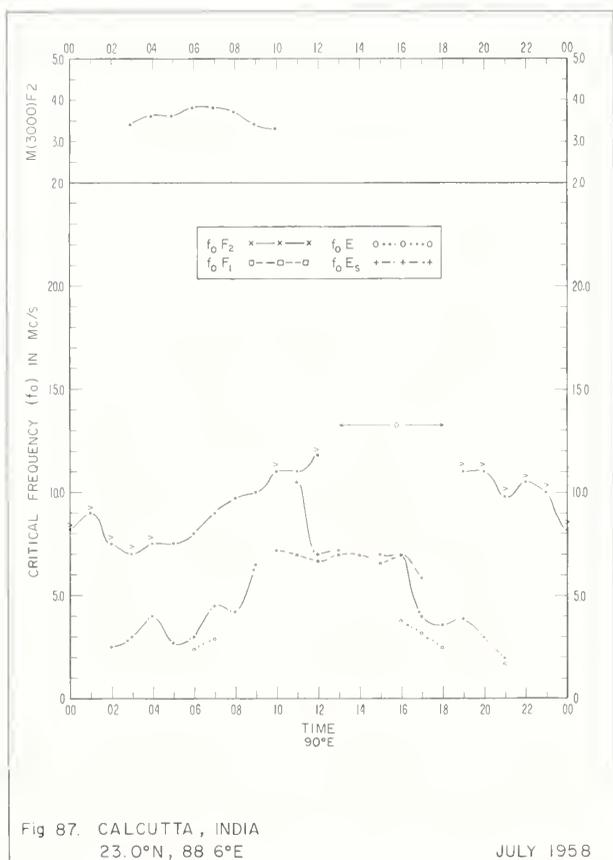
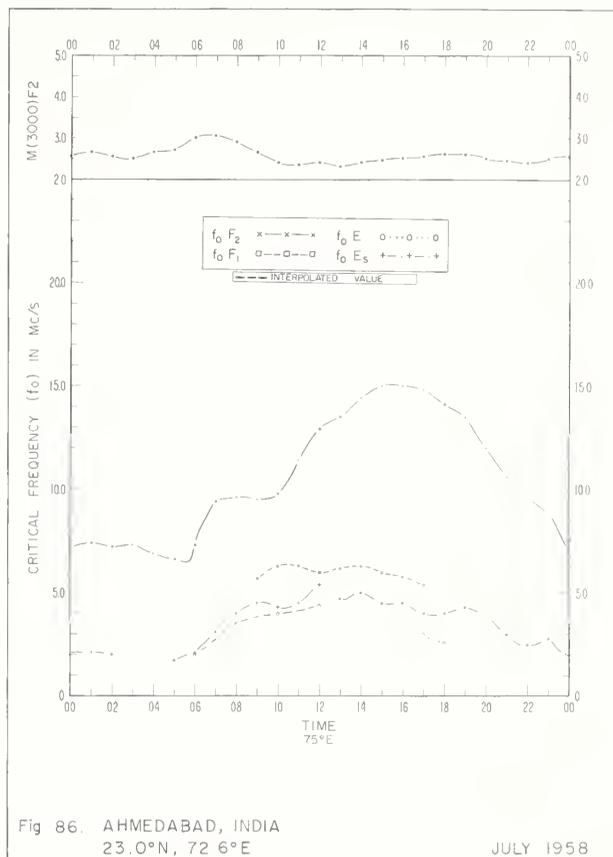
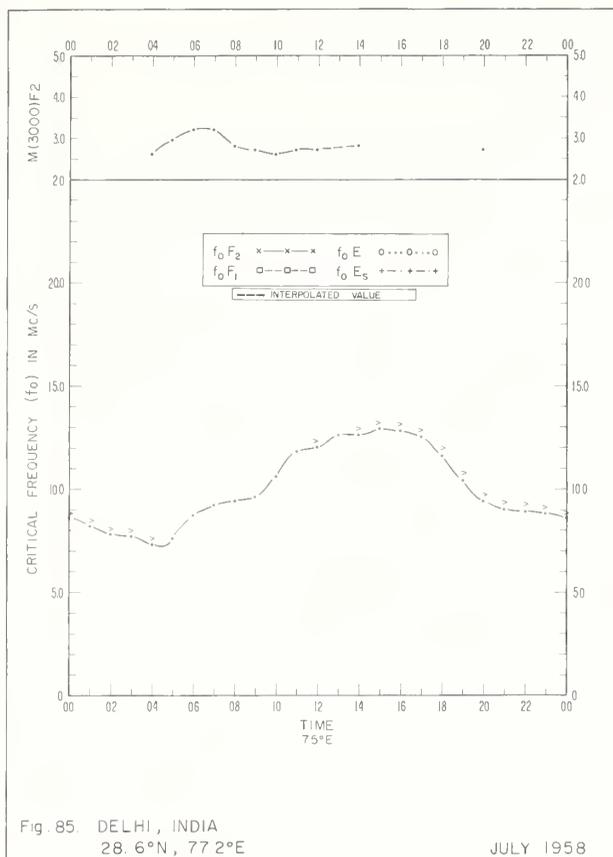


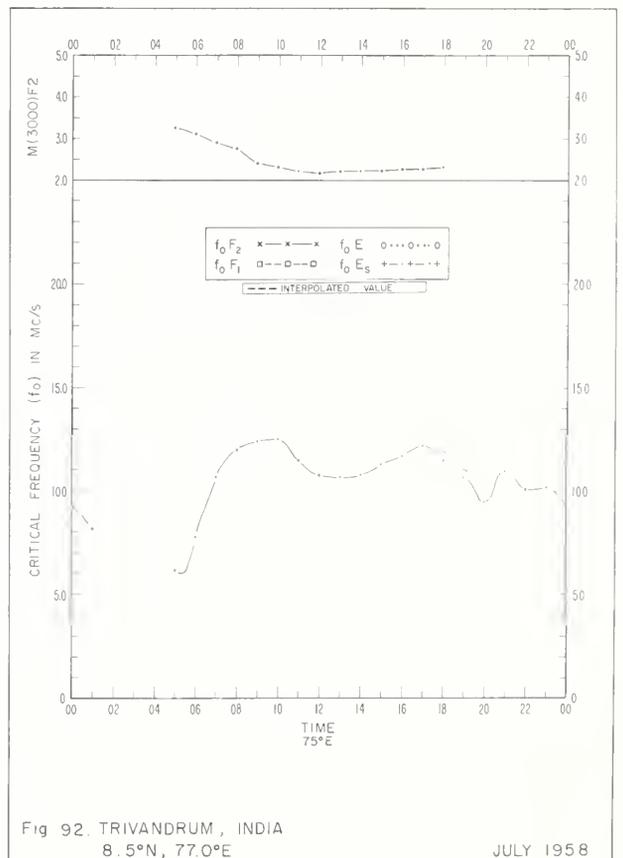
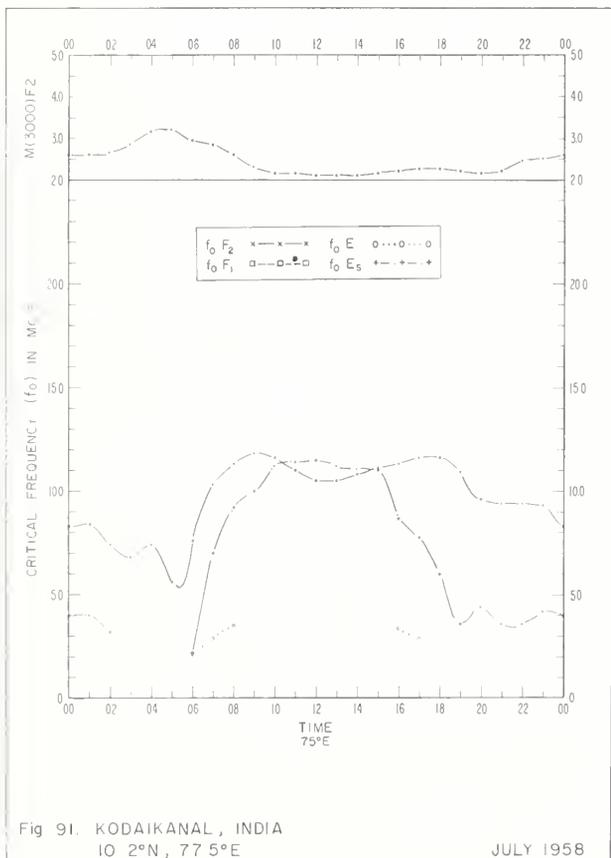
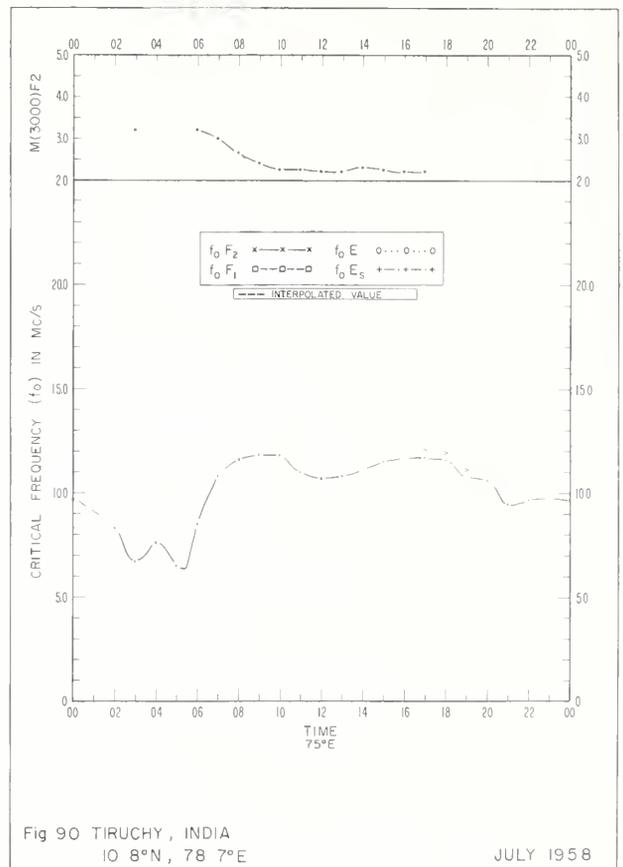
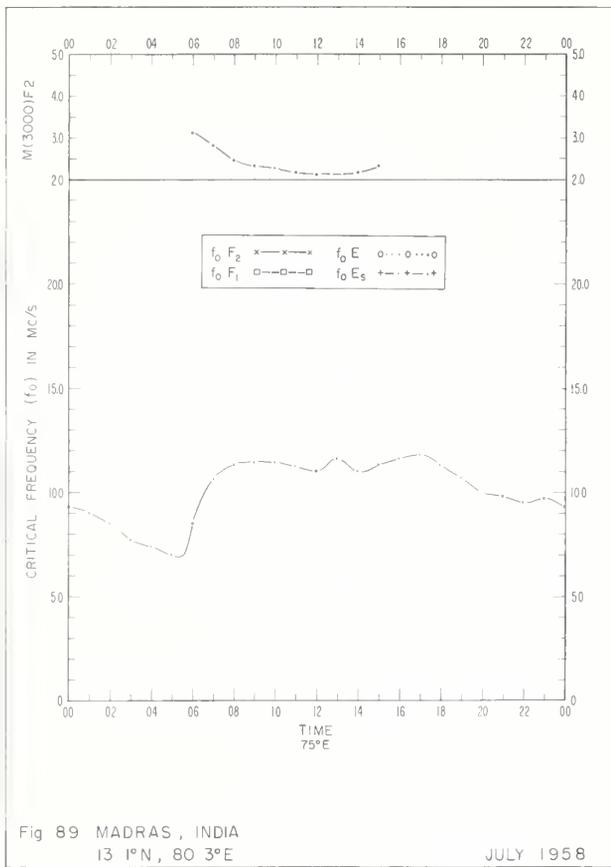
Fig 76 NATAL, BRAZIL
5.7°S, 35.2°W

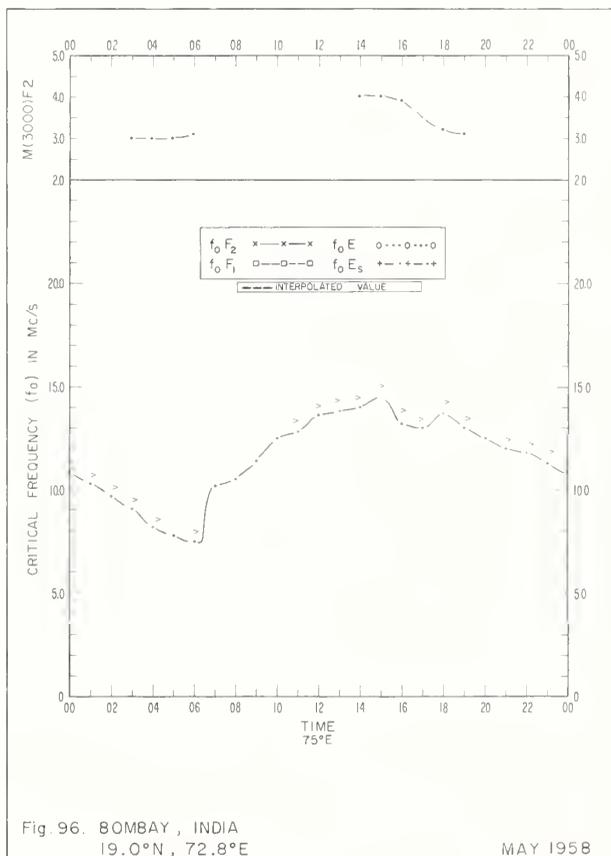
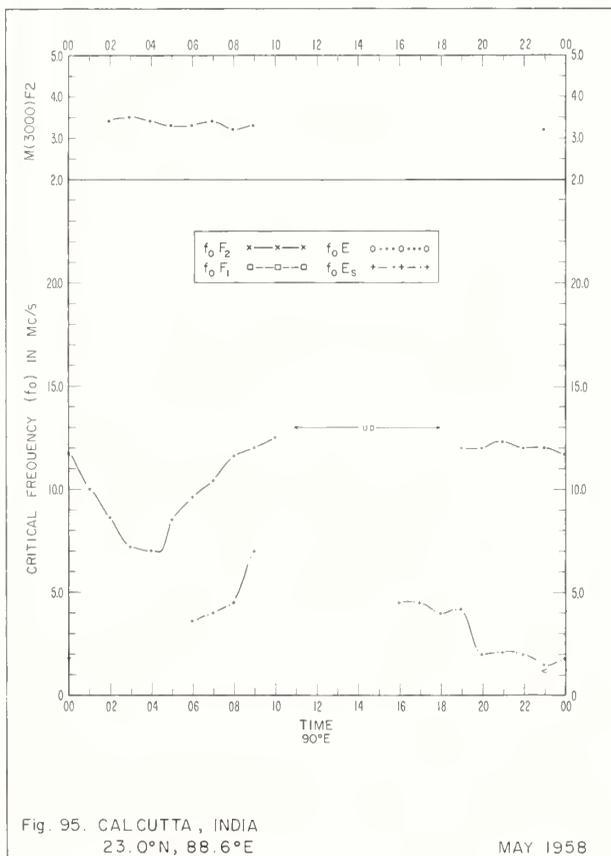
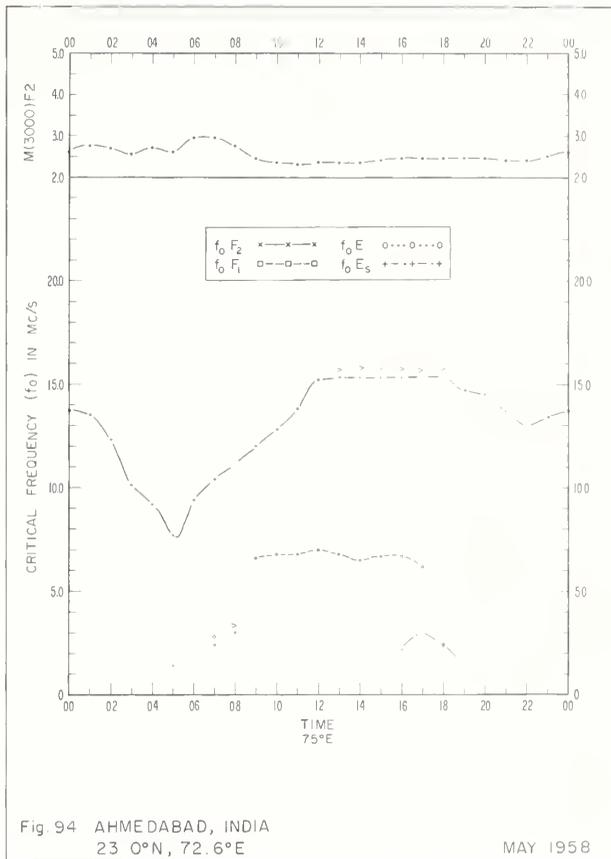
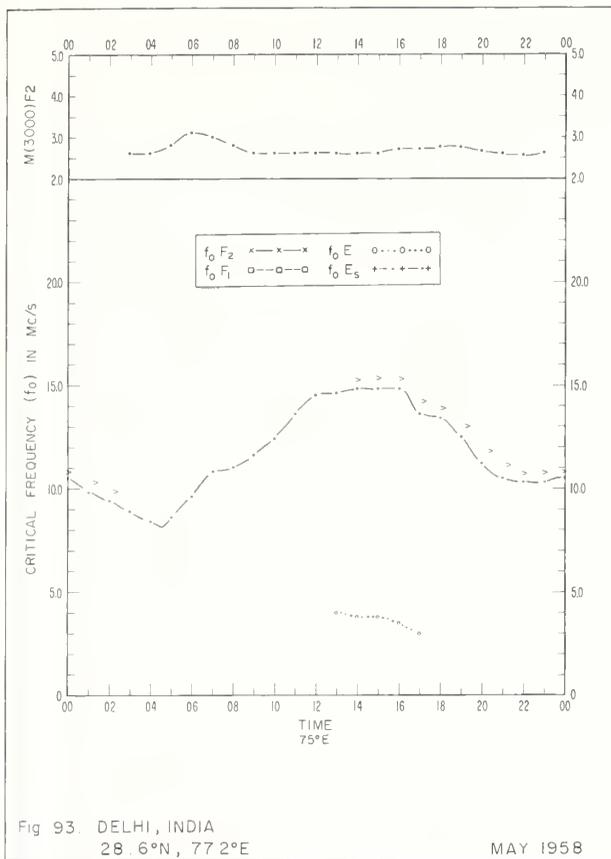
JANUARY 1959

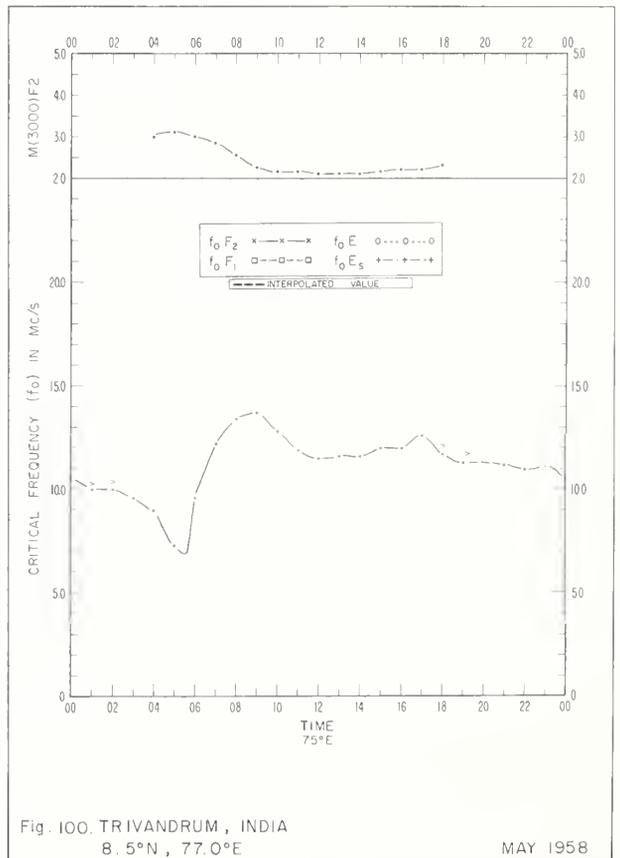
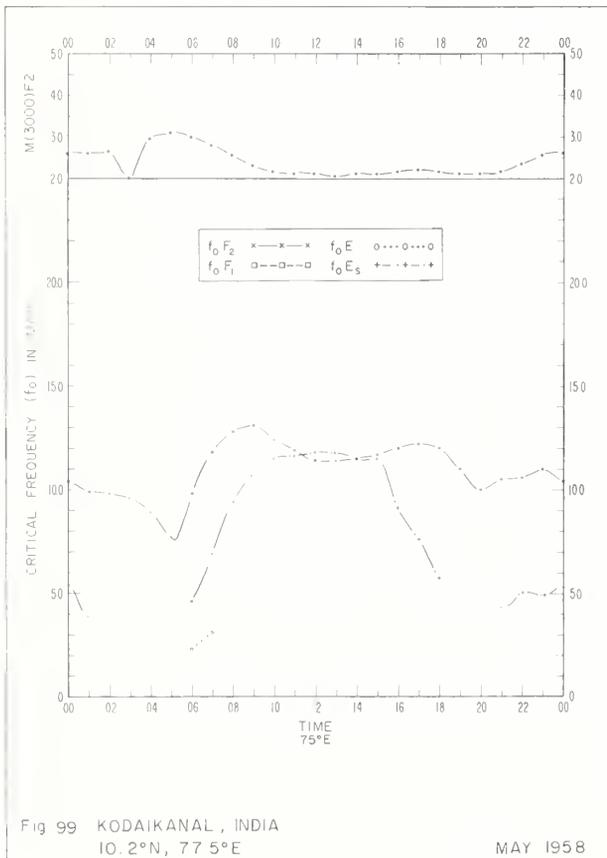
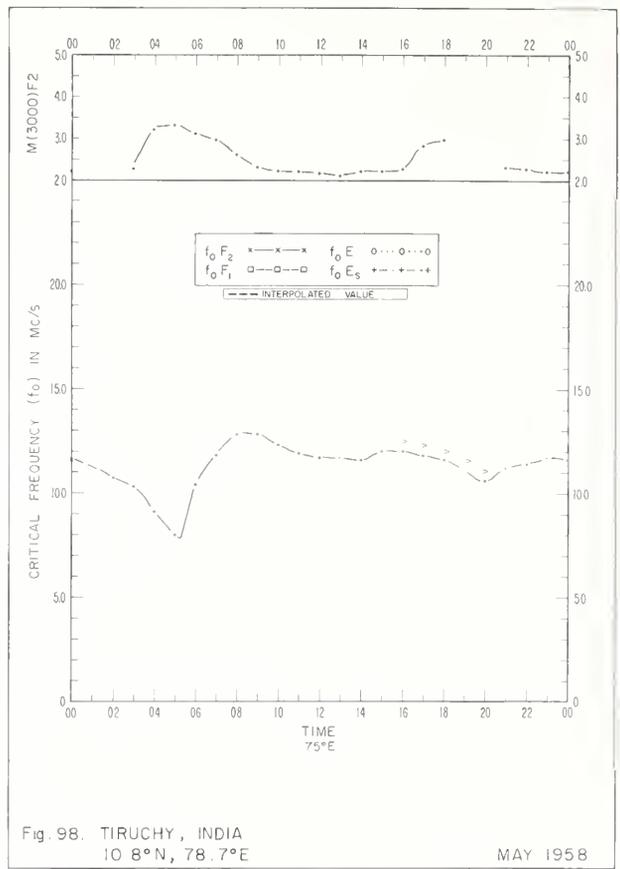
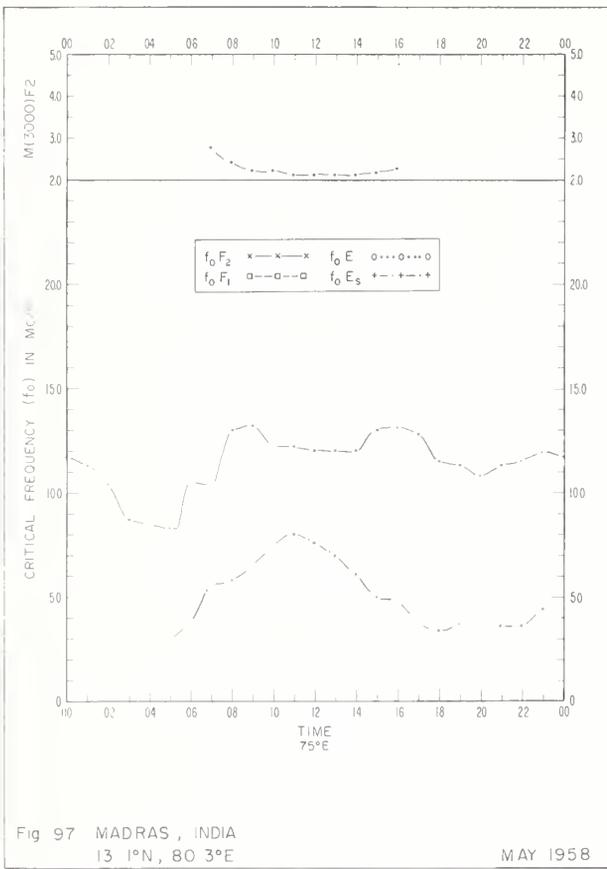












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CRPL-F (Part A), "Ionospheric Data."

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