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CRPL-F212 PART A

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PART A
IONOSPHERIC DATA

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NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

IONOSPHERIC DATA

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IONOSPHERIC DATA

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

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

Graphs of critical frequencies and (M3000)F₂ will continue to appear as in past issues. Graphs of percentage of time of occurrence for fEs and virtual heights of the regular ionospheric layers will no longer appear. This change is necessary to provide space for the enlarged tables. Data on percentage of time of occurrence of fEs above 3, 5, and 7 Mc will still be 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 is 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 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			
1962												

Units of Ionospheric Data Tables

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

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

WORLD - WIDE SOURCES OF IONOSPHERIC DATA

The ionospheric data given here in tables 1 to 96 and figures 1 to 96 were assembled by the Central Radio Propagation Laboratory for analysis and correlation, incidental to CRPL prediction of radio propagation conditions. The data are median values unless otherwise indicated. The following are the sources of the data in this issue:

Republica Argentina, Ministerio de Marina:
Buenos Aires, Argentina
Tucuman, Argentina

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

Universidad Mayor de San Andres:
La Paz, Bolivia

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:
Halley Bay

Defence Research Board, Canada:
Alert, Canada

Universidad de Concepcion:
Concepcion, Chile

Danish National Committee of URSI:
Godhavn, Greenland
Narssarssuaq, Greenland

French National Center for Geophysical Studies:
Garchy, France

French National Center for Telecommunications Studies:
Kerguelen I.
Terre Adelie

Institute for Ionospheric Research, Lindau Uber Northeim, Hannover, Germany:
Tsumeb, South West Africa

Ionospheric Institute, Breisach, Germany:
Freiburg, Germany

The Royal Netherlands Meteorological Institute:
Paramaribo, Surinam

Central Institute of Meteorology, Budapest, Hungary:
Budapest, Hungary

Icelandic Post and Telegraph Administration:
Reykjavik, Iceland

Manila Observatory:
Baguio, P. I.

South African Council for Scientific and Industrial Research:
Marion I., Union of South Africa

United States Army Signal Corps:
Adak, Alaska
Grand Bahama I.

National Bureau of Standards (Central Radio Propagation Laboratory):
Anchorage, Alaska
Boulder, Colorado
Byrd Station, Antarctica
Fairbanks (College), Alaska (Geophysical Institute of the University
of Alaska)
Maui, Hawaii
Point Barrow, Alaska
Pole Station, Antarctica
Washington, D. C.

TABULATIONS OF ELECTRON DENSITY DATA

Reduction of hourly ionospheric vertical soundings to electron density profiles has become a part of the systematic ionospheric data program of the Central Radio Propagation Laboratory, National Bureau of Standards. Scalings of ionograms for this purpose are being provided by ionosphere stations operated by several stations associated with CRPL. For the present, the hourly profile data from one CRPL station, Puerto Rico, are appearing in the monthly CRPL-F Reports, Part A. The very considerable task of scaling the ionograms for this purpose is being undertaken by T. R. Gilliland, Engineer in Charge, Puerto Rico Ionosphere Sounding Station; the computations are performed at the NBS Boulder Laboratories by a group headed by J. W. Wright. Basic conversion of virtual to true heights uses the well-known matrix method developed by K. G. Budden of the Cavendish Laboratory, Cambridge University, programmed by Dr. H. H. Howe for a CDC-1604 computer.

The tabulations provide the following basic electron density profile data for each hour of each day of the month:

<u>Quantity</u>	<u>Units</u>	<u>Remarks</u>
Electron Density (N)	$\times 10^3 = \text{electrons/cm}^3$	Body of table; given at each 10 km of height.
NMAX	$\times 10^3 = \text{electrons/cm}^3$	Always the highest value of N at each hour. To maintain this rule, the electron density at the next 10 km increment above HMAX is always given as exactly equal to NMAX (unless HMAX coincides with a 10 km level).
QUALification	(Alphabetic)	A standard scaling letter qualifying the observation when necessary.
KP		The standard Kp magnetic index, to one digit.
HMIN	Kilometers	The height of zero or very low electron density, obtained by linear extrapolation of the electron density vs. height curve.
SCAT	Kilometers	One half of the half-thickness of the parabola best fitting the upper portion of the F region profile. Approximates the scale height near the level HMAX.
HMAX	Kilometers	The height of maximum electron density, determined by fitting a parabola to the upper portion of the profile.
SHMAX	$\times 10^{10} = \text{electrons/cm}^2$ column.	Obtained by integration of the profile between the limits HMIN and HMAX.

Tabulations of the average electron densities each hour, at each 10 km level, for the quiet ionosphere, are also given. These averages include the profiles obtained when the magnetic character figure Kp is 4+ or less. The number of profiles entering the average for each hour is given by CNT. The other parameters of the layer, HMIN, SCAT, HMAX, SHMAX, and the mean value of Kp are given for each hour.

Before the averaging process, the individual profiles are extrapolated above HMAX by a Chapman distribution of 100 km scale height. This assumed model seems to agree well with the few published measurements dealing with the topside profile of the F-region.* Extrapolation is necessary in order to calculate homogeneous averages near HMAX and the average profiles are, in fact, given up to 950 km. Also given are the average estimated integrated electron densities to infinity, SHINF (same units as SHMAX); this is an approximation to the total electron content in a column of the ionosphere.

*See Wright, J. W. "A Model of the F-Region Above HMAX F2" J.Geophys.Res. V.65 pp. 185-191.

ELECTRON DENSITY

1 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,K,P	6	6	5	5	A5	5	55	5	5	5	5	5
HMIN	108	106	106	108		109	100	224	207	214	218	217
SCAT	107	47.3	39.1	42.2		46.0	53.1	51.8	41.5	38.5	32.5	34.0
HMAXF	452	300	287	278		297	326	335	316	306	297	286
SHMAX	1754	1304	1371	961		615	793	603	449	355	300	172
KM												
460	858											
450	858											
440	855											
430	849											
420	839											
410	826											
400	808											
390	781											
380	756											
370	730											
360	705											
350	680											
340	655							898				
330	631						1031	896				
320	607						1028	880				
310	583	1561					1008	847	747	666		
300	559	1561				779	970	799	721	662	657	
290	535	1561	2048			774	912	730	675	638	649	374
280	510	1491	2033	1353		752	839	639	610	591	605	371
270	485	1393	1955	1340		712	746	524	525	524	548	353
260	459	1283	1807	1289		653	618	389	432	435	466	317
250	434	1157	1606	1196		599	488	225	332	325	344	264
240	409	1018	1370	1071		529	355	101	216	198	176	199
230	386	855	1107	912		426	233	33.1	116	100	71.2	122
220	365	683	822	733		331	150		54.0	33.3	18.4	56.5
210	345	538	578	572		252	103		19.3			
200	325	425	414	446		195	75.3					
190	306	347	322	345		154	58.0					
180	287	294	266	268		126	46.4					
170	267	255	228	216		106	38.0					
160	244	224	198	180		90.4	32.4					
150	218	198	174	151		78.8	28.6					
140	182	175	157	130		70.1	26.3					
130	152	147	138	123		64.7	25.2					
120	144	134	124	119		62.5	24.0					
110	81.0	104	62.6	69.6		22.0	20.9					
100							13.0					

ELECTRON DENSITY

2 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	6	6					56				7	
HMIN	105	105	106	6	108	110	100	229	217	A18	274	259
SCAT	42.2	77.6	56.7	104	50.8	54.3	39.5	37.8	38.1	50.0	40.4	64.3
HMAXF	268	322	310	295	295	306	286	310	290	354	370	397
SHMAX	903	1285	1233	1232	1192	841	667	437	273	296	257	345
KM												
400												409
390												407
380											436	401
370											436	390
360										392	429	374
350										392	405	353
340										385	376	324
330		1105								370	336	289
320		1105						898		346	286	249
310		1099	1353			1027		898		318	226	204
300		1083	1344	1735	1561	1024		882		283	159	158
290		1058	1313	1728	1558	1005	1157	835		244	95.7	113
280		1023	1262	1678	1529	969	1150	756	541	532	34.2	74.4
270	1240	980	1186	1575	1470	913	1109	637	505	164		41.8
260	1230	927	1092	1426	1381	844	1030	478	458	123		12.4
250	1186	861	964	1220	1258	755	911	239	393	86.8		
240	1106	786	822	977	1097	644	755	80.2	306	58.1		
230	994	707	683	758	878	516	556	12.4	193	33.5		
220	856	621	554	586	662	393	355		77.4	12.4		
210	689	536	446	452	495	296	219					
200	541	454	367	356	369	222	130					
190	424	382	310	290	278	168	79.6					
180	344	321	268	242	218	130	54.6					
170	290	272	234	207	177	103	40.4					
160	249	236	206	177	146	83.0	32.7					
150	214	202	180	152	125	69.5	28.3					
140	183	162	151	131	110	64.8	25.8					
130	159	142	132	119	102	62.8	24.5					
120	147	134	125	113	96.8	56.9	22.7					
110	120	122	96.9	70.5	49.1	12.4	19.7					
100							13.0					

ELECTRON DENSITY

RAYEY	AF8, PUERTO RICO						60 W				3 DEC 1961			
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300		
Q ₁ KP	3	3	4	4	4	A4	A4	A4	A2	A2	A2	A2		
HMIN	107	108	109	108	109	110			200	198				
SCAT	39.4	37.0	40.2	41.7	36.2	37.0			59.2	33.6				
HMAXF	269	267	264	288	274	269			310	263				
SHMAX	814	812	749	944	830	716			127	35				
KM														
310									163					
300									162					
290				1298					159					
280				1286	1424				153					
270	1131	1206	1121	1237	1419	1298			144	77.9				
260	1115	1194	1117	1151	1371	1280			135	77.7				
250	1063	1139	1085	1026	1265	1215			122	75.0				
240	970	1040	1017	867	1108	1101			107	69.1				
230	864	898	916	695	869	947			89.6	58.6				
220	734	721	772	535	611	718			68.1	45.7				
210	596	573	577	420	408	491			42.5	31.4				
200	465	440	427	341	292	262			1.7	12.4				
190	365	370	336	287	226	152								
180	308	308	280	245	184	109								
170	267	267	243	210	152	86.4								
160	227	228	198	182	125	71.7								
150	180	183	158	160	108	65.3								
140	149	138	144	136	102	62.1								
130	138	126	138	117	99.5	60.6								
120	133	121	123	101	84.4	53.2								
110	99.0	100	33.3	42.3	23.7	.4								

ELECTRON DENSITY

RAYE AF8, PUERTD R1C0						60 W				4 DEC 1961			
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
Q,KP	A3	A3	A1	A1	A1	A2	A2	A2	A1	A1	A1	A2	
HMIN								200			247	228	
SCAT								36.9		36.7	45.0	38.3	
HMAXF								26.4		32.9	315	313	
SHMAX								74		70	99	91	
KM													
330										136			
320										134	175	171	
310										127	175	171	
300										115	170	166	
290										97.3	163	155	
280										75.5	148	139	
270								156		51.9	124	116	
260								156		33.1	94.0	89.4	
250								151		15.6	64.3	62.3	
240								139			38.9	35.8	
230								123			16.2	12.4	
220								102					
210								76.2					
200								12.4					

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO

60 W

5 DEC 1961

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	A2	2	2	2	2	0	0	50	2	2	2	4
HMIN	210	218	216	221	206	197	198	100	110	108	112	108
SCAT	31.6	41.4	31.4	33.0	32.6	39.9	39.9	30.0	31.9	27.8	28.2	39.6
HMAXF	284	309	287	285	278	284	280	227	236	236	237	242
SHMAX	74	94	77	77	69	65	57	163	300	392	469	510
KM												
310		168										
300		166										
290	163	159	179	186		115						
280	163	149	177	185	156	114	103					
270	156	128	166	176	154	111	102					
260	140	105	146	159	144	103	97.0					
250	118	77.0	114	125	127	94.0	89.0					
240	89.0	50.9	75.2	78.2	98.6	81.7	77.1	539	710	898	733	
230	59.5	30.6	43.2	37.5	66.2	66.1	63.2	295	533	703	885	717
220	34.0	12.4	18.4		40.0	48.4	47.9	291	503	655	816	678
210					18.4	30.6	32.7	272	446	561	685	614
200						12.4	12.4	237	361	435	508	516
190								192	269	328	347	422
180								147	197	259	275	347
170								109	148	214	239	292
160								82.6	118	179	209	254
150								65.4	100	152	179	220
140								54.3	90.7	129	146	183
130								49.1	75.4	113	123	150
120								42.0	67.2	102	105	133
110								32.3	12.4	83.0		96.5
100								19.7				

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO

60 W

5 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	4	4	C4	C4	C4	C2	C2	C2	C3	C3	C3	C4
HMIN	109	109										
SCAT	39.7	36.7										
HMAXF	249	264										
SHMAX	558	714										
KM												
270		1031										
260		1029										
250	819	995										
240	808	920										
230	771	810										
220	709	671										
210	610	535										
200	484	422										
190	366	346										
180	296	302										
170	257	270										
160	225	239										
150	189	203										
140	163	170										
130	149	152										
120	141	143										
110	83.2	88.2										

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO

60 W

6 DEC 1961

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	C4	C4	C1	C1	C1	C1	C1	C1	C3	C3	C3	C4

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO

60 W

6 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	C4	4	A3	A3	3	2	A2	2	2	2	2	2
HMIN		109			110	110		199	228	239	239	230
SCAT		37.1			42.8	34.0		40.9	50.9	31.7	37.1	44.3
HMAXF		263			261	253		259	332	309	325	326
SHMAX		663			666	431		89	95	80	103	124
KM												
340										142		
330										142		212
320										140		196
310										135	182	188
300										128	178	174
290										118	165	152
280										103	144	123
270										85.5	114	90.3
260		941			985					191	65.9	75.5
250		939			985	782				189	46.8	42.6
240		913			969	781				181	28.4	12.4
230		849			927	754				166	7.7	
220		757			854	691				145		1.9
210		632			765	600				99.9		
200		507			650	485				32.8		
190		407			508	348						
180		340			360	227						
170		298			251	149						
160		266			193	103						
150		238			159	81.1						
140		210			133	68.3						
130		175			113	61.4						
120		145			99.5	58.1						
110		132			94.5	51.3						
		37.2			12.4	.4						

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

7 DEC 1961

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q _z KP	2	2	2	2	2	3	3	53	3	3	3	A0
HMIN	227	216	200	200	217	196	209	100	110	108	108	
SCAT	26.6	34.6	23.0	81.5	67.6	54.2	43.8	38.2	33.5	37.9	49.3	
HMAXF	295	284	246	352	336	318	306	257	248	249	257	
SHMAX	96	116	73	180	88	72	67	174	357	469	569	
KM												
360				159								
350				159								
340				158	106							
330				156	106							
320				153	105	91.5						
310				147	102	91.0	108					
300	246			142	98.5	89.0	107					
290	244	270		136	94.1	85.0	104					
280	226	269		131	87.0	80.0	97.9					
270	191	259		125	78.0	73.6	88.9					
260	143	238		118	66.7	65.7	77.4	271				
250	87.8	199	259	110	54.5	57.1	63.8	269	594	714	710	
240	47.1	132	255	100	41.0	48.7	49.8	259	585	704	692	
230	19.3	66.4	229	87.5	27.4	40.2	35.9	238	552	670	660	
220		26.0	162	72.0	12.4	31.9	23.9	208	491	611	614	
210			60.5	50.9		23.3	4.3	167	397	520	545	
200			4	12.4		12.4		126	309	416	457	
190								91.9	240	324	377	
180								67.0	188	256	305	
170								52.7	150	211	255	
160								43.8	124	175	223	
150								38.2	106	145	195	
140								35.4	95.3	127	169	
130								33.6	78.6	110	146	
120								30.9	67.3	102	129	
110								26.5	12.4	62.1	91.8	
100								17.1				

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

7 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q _z KP	A0	0	A0	0	0	0	50	0	0	0	0	0
HMIN	109	108	109	108	109	112		200	207	206	217	229
SCAT	63.6	30.2	43.0	44.5	36.7	26.3		22.1	40.4	53.0	44.7	37.1
HMAXF	271	256	244	244	252	240		246	276	319	308	324
SHMAX	608	615	473	446	422	300		79	74	75	73	71
KM												
330												124
320												124
310											103	120
300											102	120
290											99.3	119
280	621										94.9	115
270	621										88.6	108
260	617	985			651						153	88.6
250	605	975	678	619	650						152	80.1
240	585	916	677	617	635	619					146	69.8
230	554	802	660	603	594	598					271	138
220	521	641	625	572	530	532					267	119
210	484	495	572	527	441	427					238	91.9
200	438	388	490	463	347	302					172	58.0
190	385	323	375	384	265	212					88.2	22.4
180	325	284	294	303	211	151					12.4	
170	274	259	244	241	174	118						
160	238	236	211	202	145	98.2						
150	207	213	188	176	124	84.9						
140	171	189	166	148	108	75.7						
130	145	151	129	128	98.0	70.4						
120	130	138	120	106	89.9	52.0						
110	30.3	38.7	38.1	38.1	30.3							

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

8 DEC 1961

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q _z KP	0	0	A0	0	0	A1	1	51	0	0	0	0
HMIN	241	248	227	238	221	211	209	100	110	109	109	108
SCAT	31.9	44.1	46.6	48.7	35.1	49.3	32.9	33.6	35.0	26.5	33.3	32.1
HMAXF	313	337	343	329	299	303	288	240	242	230	247	234
SHMAX	67	90	101	98	76	84	62	161	330	388	527	485
KM												
350				148								
340			155	148								
330			154	145	165							
320	149	149	139	164								
310	149	142	130	159		135						
300	143	127	116	152	162	135						
290	129	107	99.9	137	159	132	129					
280	108	80.9	82.3	115	150	127	127					
270	80.7	57.0	65.5	85.4	133	120	120					
260	53.5	34.4	49.8	56.8	105	108	106					
250	29.5	12.4	36.2	33.5	71.6	92.0	86.7		541		858	
240			25.1	12.4	45.5	70.6	65.5	265	541	782	849	882
230			12.4		25.9	48.7	45.7	260	524	782	803	879
220						27.0	26.8	242	486	752	718	841
210								3.1	214	425	666	587
200									177	346	510	451
190									138	268	351	350
180									106	205	259	287
170									79.8	156	210	246
160									62.7	124	178	214
150									51.2	104	151	181
140									34.0	98.8	128	150
130									38.8	75.6	110	124
120									36.4	66.7	101	119
110									31.7	12.4	74.2	33.0
100									13.0			54.4

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

8 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q _z KP	0	A0	0	0	0	50		0	0	0	0	1
HMIN	109	108	110	110	110	108		199	217	258	249	238
SCAT	45.5	60.4	22.6	50.9	32.9	30.4		79.1	36.0	47.8	38.9	31.0
HMAXF	255	273	230	263	245	250		317	278	352	336	316
SHMAX	627	659	367	502	405	333		138	49	78	85	79
KM												
360												123
350												123
340											122	155
330											117	154
320											156	110
310											156	99.5
300											154	86.0
290											151	70.4
280		710									147	112
270		710		651							142	111
260	898	702		650							137	105
250	895	685		640	701	651					127	95.2
240	873	658	694	617	697	634					112	78.5
230	829	626	694	584	665	583					91.8	52.3
220	767	571	660	529	600	493					69.8	21.5
210	646	495	556	447	503	361					45.2	
200	484	416	428	350	383	240					12.4	
190	356	353	327	274	274	163						
180	289	309	276	225	206	120						
170	250	278	245	183	169	94.8						
160	215	250	222	148	143	79.4						
150	181	220	199	129	123	69.0						
140	154	175	163	123	107	60.7						
130	146	142	135	119	97.2	56.4						
120	134	133	112	99.7	80.1	54.2						
110	30.3	38.1		12.4	12.4	19.3						

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO												60 W	11 DEC 1961
TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	
Q,KP	3	3	4	4	4	3	3	S3	S1	A1	S1	A3	
HMIN	218	227	230	199	197	247	217	100	112		108	110	
SCAT	49.3	39.8	44.3	31.6	76.7	52.3	52.0	36.2	30.1		28.8	24.6	
HMAXF	321	325	328	271	340	348	330	260	248		252	231	
SHMAX	104	102	112	85	126	98	118	201	351		541	415	
KM													
350					129	145							
340					129	144	170						
330	160	178	186		129	141	170						
320	160	177	184		127	135	168						
310	158	172	178		124	125	163						
300	153	160	168		120	111	155						
290	144	144	150		116	92.3	144						
280	131	124	127	196	110	73.3	129						
270	111	98.7	96.9	196	102	54.6	108						
260	88.9	69.8	68.9	190	91.9	36.7	84.7	311		999			
250	67.7	46.4	46.4	175	80.1	16.2	62.8	306	678				
240	48.2	28.2	27.5	147	66.9		44.6	288	667	954	815		
230	30.3	12.4	2.4	105	54.0		28.6	259	621	850	815		
220	12.4			66.9	40.5		12.4	219	530	684	772		
210				38.7	27.3			176	380	498	663		
200				12.4	12.4			133	257	345	516		
190								101	188	267	367		
180								78.1	147	226	280		
170								62.3	118	191	237		
160								51.3	101	161	207		
150								43.3	92.1	129	175		
140								37.7	87.9	120	144		
130								34.8	78.8	116	134		
120								32.6	53.8	111	125		
110								28.7		43.7	12.4		
100								13.0					

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO												60 W	11 DEC 1961
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
Q,KP	A3	3	3	3	3	A2	A2	A2	3	A3	3	3	
HMIN	110	109	109	109	109	109		199	207	197	207	218	
SCAT	25.1	43.1	33.8	37.1	41.5	40.4		43.6	72.6	35.0	50.5	33.4	
HMAXF	226	249	250	282	261	264		271	334	291	335	309	
SHMAX	348	419	473	668	685	497		100	109	86	114	101	
KM													
340										118		149	
330										118		149	
320										117		146	
310										115		140	197
300										111	155	131	193
290					882					107	155	120	181
280					882					194	101	151	106
270					861	1080	782			194	94.8	139	91.8
260					806	1080	780			191	86.7	125	77.0
250			554	714	725	1059	758			183	77.7	107	62.0
240			548	699	628	1008	712			170	66.2	87.3	48.7
230	648	527	653	526	925	641				150	52.4	67.0	36.5
220	637	491	575	432	796	539				116	34.4	47.7	25.3
210	576	440	472	359	609	416				66.8	15.8	29.5	12.4
200	481	377	376	303	435	301				12.4		12.4	
190	366	315	305	264	299	223							
180	282	263	259	235	222	164							
170	241	228	228	209	181	123							
160	205	196	204	185	154	95.3							
150	167	154	181	163	132	78.2							
140	145	136	155	140	115	67.0							
130	135	129	134	119	101	60.4							
120	130	124	124	110	91.6	57.2							
110	12.4	33.3	30.3	33.8	33.0	22.0							

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO												60 W	12 DEC 1961
TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	
Q,KP	3	3	A0	0	0	0	0	A0	1	1	1	1	
HMIN	217	202	199	199	198	227	217		108	108	109	110	
SCAT	26.4	24.5	16.9	28.0	80.2	40.4	48.6		30.1	29.7	30.5	27.5	
HMAXF	286	249	236	244	347	308	325		256	246	249	240	
SHMAX	106	87	39	37	106	66	82		372	392	529	505	
KM													
350					98.0								
340					97.9								
330					97.0		123						
320					95.3		123						
310					92.9	123	120						
300					89.5	122	115						
290	271				85.9	117	108						
280	267				81.1	108	94.8						
270	244				76.0	94.5	79.1						
260	205				70.4	73.4	63.5		768				
250	151	293		111	64.4	52.7	49.5		760	727	936		
240	92.2	283	170	110	58.2	33.5	36.7		713	719	915	1017	
230	48.3	249	165	103	51.6	15.6	25.3		616	672	838	984	
220	19.9	167	131	89.2	43.3		12.4		432	581	717	883	
210		50.4	64.7	60.6	32.4				281	455	551	672	
200			12.4	12.4	12.4				179	312	402	438	
190									127	231	299	314	
180									92.5	184	244	258	
170									77.8	147	209	225	
160									70.3	114	178	194	
150									65.9	100	147	164	
140									63.0	93.7	122	137	
130									61.1	89.7	113	125	
120									59.6	87.3	110	120	
110									42.1	49.1	41.8	12.4	

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO												60 W	12 DEC 1961
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
Q,KP	1	A1	A0	A0	0	0	50	0	0	0	0	0	
HMIN	109		109	108	108	110	100	199	203	233	228	210	
SCAT	26.6		32.1	36.2	39.1	28.5	33.7	29.9	58.1	41.6	34.0	23.5	
HMAXF	234		247	257	258	243	249	257	309	320	306	250	
SHMAX	397		434	486	449	348	202	72	72	76	73	56	
KM													
320											135		
310										94.1	133	149	
300										93.5	128	148	
290										91.5	118	141	
280										88.1	104	127	
270										82.9	84.9	108	
260					710	651		197	77.1	61.5	85.5		
250			681	704	643	714	368	194	70.2	39.4	59.3	197	
240	681		673	673	615	712	360	181	62.2	22.2	34.3	188	
230	678		633	615	563	679	336	155	53.4			161	
220	637		559	527	502	602	297	96.9	41.1			103	
210	550		451	428	419	459	242	50.3	23.0			12.4	
200	450		356	342	334	320	178	12.4					
190	351		292	281	260	219	123						
180	289		251	238	207	153	84.5						
170	252		222	206	168	120	59.1						
160	221		195	182	139	98.8	42.6						
150	191		176	160	117	84.2	32.6						
140	156		146	138	101	73.7	26.9						
130	133		119	118	92.6	67.3	24.6						
120	126		103	99.5	86.1	56.4	23.4						

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO												60 W	13 DEC 1961
TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	
Q,KP	0	0	0	0	0	1	A1	81	0	A0	0	1	
HMIN	218	214	229	217	219	220	219	100	109	109	109	110	
SCAT	31.3	35.9	30.9	37.7	35.0	38.7	36.0	39.5	27.3	25.5	29.2	30.3	
HMAXF	283	287	292	286	282	297	287	252	229	239	245	235	
SHMAX	54	66	64	76	61	60	54	150	269	309	402	389	
KM													
300			156			118							
290	124	140	156	159	142	117	113						
280	124	138	151	158	142	112	112						
270	119	132	138	152	138	104	107						
260	107	120	113	140	128	89.4	97.0						
250	90.4	102	80.4	119	112	70.6	83.3	221		707			
240	69.6	76.2	42.2	91.0	83.3	48.2	63.9	216		648	702	681	
230	43.8	47.0	12.4	59.0	44.9	28.0	40.4	202	536	626	661	677	
220	16.8	22.3		22.7	12.4	1.9	12.4	185	521	555	574	641	
210								162	471	426	439	568	
200								134	374	272	326	437	
190								104	272	198	265	320	
180								76.6	195	152	230	263	
170								56.5	151	108	203	232	
160								43.6	122	96.3	171	206	
150								35.8	103	90.2	131	178	
140								32.1	90.6	86.3	116	147	
130								30.2	83.9	84.0	110	125	
120								28.4	56.5	81.9	87.6	108	
110								25.1	24.1	26.0	12.4	12.4	
100								15.6					

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO						60 W				13 DEC 1961			
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
Q,KP	1	1	A1	A1	A1	3	S3	A3	3	A3	3	1	
HMIN	108	107	109			112	100	199	198	254	219	214	
SCAT	28.5	51.2	31.1			34.5	26.3	29.4	45.3	35.0	34.7	36.2	
HMAXF	236	251	240			243	230	263	285	334	310	294	
SHMAX	424	463	373			241	159	68	70	65	93	100	
KM													
340										129			
330										129			
320										124			
310										113	178		
300										98.4	175	206	
290									118	78.2	164	205	
280									118	55.6	146	198	
270								167	115	36.6	122	182	
260								166	109	20.6	94.4	158	
250		591	567			399		158	100		68.1	123	
240	761	584	567			399	342	140	87.5		45.5	84.5	
230	753	566	552			386	342	111	71.4		26.6	48.5	
220	704	536	506			357	328	78.9	50.9		3.1	22.8	
210	600	495	437			313	290	44.4	31.8				
200	454	418	363			258	233	12.4	12.4				
190	328	327	301			197	166						
180	268	269	254			148	110						
170	235	236	225			114	70.9						
160	207	210	202			91.8	50.1						
150	181	166	179			76.2	37.8						
140	157	138	150			64.4	30.9						
130	137	129	129			58.9	27.4						
120	116	124	116			49.7	25.9						
110	36.1	81.2	33.0				23.7						
100							15.6						

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO							60 W			14 DEC 1961		
TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	1	A1	A1	1	1	0	0	50	0	40	0	1
HMIN	217	227	217	218	238	239	226	100	109	109	105	109
SCAT	17.8	51.5	27.6	53.3	43.0	46.3	44.1	34.0	29.7	40.7	38.9	21.4
HMAXF	249	318	276	325	322	333	309	256	239	249	247	233
SHMAX	53	89	60	119	92	87	90	231	292	467	514	435
KM												
340						142						
330					170	162	142					
320		142			169	162	139					
310		141			166	159	133	163				
300		137			160	151	124	161				
290		131			151	140	110	155				
280		122	163		139	123	90.1	145				
270		110	161	124	101	69.2	129					
260		90.2	149	103	73.2	49.5	104	378				
250	235	63.3	126	80.8	44.2	29.9	75.5	375		681	772	
240	219	38.9	89.2	57.1	16.5	7.2	43.2	354	546	673	766	941
230	162	16.2	48.6	33.1				323	534	644	737	935
220	61.6		19.3	12.4			18.4	280	491	595	682	849
210								221	416	517	592	660
200								166	329	416	476	430
190								124	244	329	369	308
180								93.3	168	264	292	257
170								71.4	118	219	241	232
160								57.2	92.4	185	207	208
150								47.9	78.3	156	179	183
140								41.3	72.9	133	152	157
130								38.3	70.0	117	134	133
120								35.9	66.2	101	118	118
110								32.0	30.3	41.8	98.9	33.3
100								19.7				

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO						60 W				14 DEC 1961			
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
Q,KP	A1	A1	A1	A1	A1		2	S2	A2	1		1	3
HMIN	109	109	110	109		108	100	200	218	227	230	204	
SCAT	36.1	23.8	37.6	28.4		32.4	25.3	31.3	44.7	41.8	34.8	32.2	
HMAXF	236	231	232	246		258	224	249	309	300	300	260	
SHMAX	411	375	311	426		370	175	51	87	99	98	56	
KM													
310										145	195		
300										143	195	223	
290										138	192	218	
280										130	184	204	
270										117	170	181	140
260						639			99.9	146	139	140	
250				761		628		136	81.7	112	84.0	136	
240	639	681	471	752		585		133	58.5	66.2	40.9	126	
230	634	681	471	701		519	430	124	34.0	23.7	3.1	109	
220	606	646	459	591		435	427	107	12.4			82.0	
210	553	551	430	435		338	397	78.0				36.2	
200	466	421	382	317		246	334	12.4					
190	371	323	308	251		179	247						
180	295	271	249	214		133	142						
170	249	245	214	191		102	73.2						
160	222	225	181	175		79.6	43.5						
150	199	203	145	156		62.6	31.7						
140	159	171	133	128		55.4	25.6						
130	140	138	127	114		51.7	22.9						
120	116	128	119	106		50.0	21.8						
110	23.7	30.3	12.4	33.0		33.0	19.8						
100							13.0						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO											60 W	15 DEC 1961
TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	3	3	2	2	52	2	2	52	2	2	A2	A1
HMIN	199	231	231	239	208	199	217	100	108	108	110	
SCAT	44.1	36.7	28.8	29.0	23.4	38.2	43.5	29.9	34.4	28.7	37.7	
HMAXF	291	309	293	303	257	271	306	244	234	249	263	
SHMAX	109	106	96	113	87	67	65	151	232	367	529	
KM												
310		214		284				108				
300		179	210	238	283			108				
290		179	199	238	270			104				
280		176	180	225	239		135	98.6				
270		169	151	200	194		135	89.8				
260		157	116	163	128	281	133	78.7				
250		140	75.8	116	60.1	275	125	65.5	259			
240		119	35.8	59.8	12.4	243	113	51.1	258	366	648	746
230	95.4					184	93.8	33.5	244	364	595	659
220	70.1					86.2	69.8	15.6	216	350	489	522
210	42.8					18.4	39.6		178	319	361	388
200	12.4						12.4		139	279	264	296
190									107	228	210	247
180									80.5	182	175	216
170									62.8	144	143	184
160									50.8	117	117	141
150									42.4	96.7	103	122
140									37.4	87.8	96.2	114
130									35.4	76.4	92.4	110
120									34.2	64.0	88.9	97.2
110									31.5	48.2	53.4	12.4
100									13.0			

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO											60 W	15 DEC 1961
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A1	A1	A0	A0	A0	A3	A3	A3	A1	A1	1	1
HMIN		108							230	224	229	199
SCAT		30.4							48.3	36.0	41.6	37.9
HMAXF		240							324	290	318	275
SHMAX		460							93	96	132	113
KM												
330									148			
320									148		236	
310									145		234	
300									139	214	226	
290									130	214	210	
280									117	210	188	235
270									99.3	198	158	234
260									78.2	177	121	226
250									52.4	141	77.8	209
240		747							28.6	88.6	39.9	182
230		728							1.9	35.5	12.4	138
220		669										81.0
210		562										42.2
200		448										12.4
190		347										
180		288										
170		255										
160		228										
150		205										
140		186										
130		153										
120		139										
110		38.7										

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO											60 W	16 DEC 1961
TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	1	1	1	1	1	1	1	S1	1	1	1	0
HMIN	208	239	231	208	207	217	210	108	108	108	110	109
SCAT	39.7	33.7	39.2	22.4	69.0	57.1	36.4	35.4	39.3	33.4	32.6	34.8
HMAXF	298	318	302	249	330	335	281	235	242	244	244	245
SHMAX	79	96	128	75	173	130	91	141	296	338	433	424
KM												
340						170						
330						197	170					
320			202			195	167					
310			199	269		192	162					
300		142	188	269		187	155					
290		141	168	262		180	144	196				
280		135	140	247		170	129	196				
270		125	105	222		159	110	191				
260		110	63.7	178		147	90.3	178				
250	89.1	34.8	116	266	131	70.8	159		426	517	710	621
240	65.2	5.4	47.5	256	111	52.3	126	253	426	515	708	619
230	43.6			218	84.9	33.8	82.5	252	416	494	677	593
220	27.1			143	55.7	15.8	42.7	242	389	452	614	543
210	7.7			37.6	19.3		3.1	222	354	385	519	470
200								189	314	317	400	386
190								141	268	260	300	314
180								97.7	223	214	242	266
170								69.7	175	178	206	233
160								51.6	137	147	177	205
150								40.9	111	120	149	172
140								37.0	96.6	104	131	141
130								33.0	72.9	96.7	121	131
120								24.8	61.1	92.4	115	126
110								7.7	36.6	82.3	19.7	59.8

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO											60 W	16 DEC 1961
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	0	A0	0	A0	A0	A2	A2	2	A2	2	2	1
HMIN	110	109	109	110	118			200		238	223	210
SCAT	26.4	44.2	46.6	34.6	35.6			26.1		39.1	40.0	34.7
HMAXF	230	239	255	250	263			234		321	318	279
SHMAX	365	432	421	393	466			40		88	113	110
KM												
330										167		
320										167	197	
310										164	194	
300										154	186	
290										140	172	
280										120	152	254
270					740					92.7	126	250
260				505	739					60.7	97.8	236
250				504	564	716				34.6	69.5	207
240	648	588	492	553	664					12.4	44.0	158
230	648	581	471	519	573			142		23.1	89.9	
220	623	560	435	461	452			132			40.5	
210	553	525	386	393	344			111			3.1	
200	432	465	334	323	267			19.7				
190	324	384	290	270	220							
180	270	315	256	230	189							
170	241	267	230	201	163							
160	216	235	209	178	138							
150	188	210	183	160	117							
140	161	176	148	144	102							
130	140	148	123	121	94.9							
120	126	139	116	99.3	35.5							
110	12.4	56.5	41.8	12.4								

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

17 DEC 1961

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q ₁ KP	1	1	1	1	A1	A1	A1	S1	0	0	0	0
HMIN	225	228	237	227	238			217	110	110	109	108
SCAT	49.1	42.2	37.1	34.2	45.5			33.2	25.9	35.9	39.9	33.7
HMAXF	311	324	314	295	328			289	233	231	254	244
SHMAX	141	131	131	120	132			78	134	216	396	439
KM												
330		225			224							
320		235	224	265	222							
310		235	218	264	215							
300		232	206	255	278	202						
290		225	188	236	276	185						
280		213	161	207	265	161						
270		194	130	164	242	127						
260		168	96.0	116	201	85.3						
250		132	62.2	61.4	138	46.5						
240		86.7	35.7	19.9	69.5	16.5						
230		31.7	12.4		24.0							
220												
210												
200												
190												
180												
170												
160												
150												
140												
130												
120												
110												

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

17 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q ₁ KP	A0	0	A0	A0	0	1	S1	1	1	1	1	1
HMIN	109	108	110	109	109	108	100	199	198	238	236	218
SCAT	25.8	27.9	40.7	45.7	34.2	32.5	26.5	24.5	67.0	57.3	30.6	29.8
HMAXF	226	226	238	274	256	259	230	244	326	346	309	274
SHMAX	342	336	317	443	383	363	189	43	85	107	92	93
KM												
350											148	
340											147	
330											93.6	145
320											93.5	140
310											92.3	133
300											90.2	124
290											87.0	110
280				491							82.5	92.1
270				491							77.3	72.9
260				480	591	678					70.9	52.5
250				458	586	666					64.0	31.4
240			446	425	557	623	392	142	64.0	31.4	44.8	203
230	562	567	441	382	503	544	392	130	49.7			91.4
220	553	560	423	339	422	418	377	104	40.5			20.5
210	504	520	392	303	341	279	334	61.7	29.3			
200	420	442	346	272	272	188	268	12.4	12.4			
190	338	346	283	248	220	138	197					
180	285	278	231	223	183	109	136					
170	255	243	196	198	152	88.5	95.1					
160	236	220	159	171	123	74.2	67.5					
150	218	202	141	141	101	65.1	52.3					
140	191	171	133	117	92.1	60.4	42.5					
130	153	134	128	104	88.1	57.9	37.2					
120	133	122	122	99.2	82.9	51.3	34.8					
110	41.8	95.4	12.4	37.2	30.3	20.5	31.2					
100							13.0					

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

18 DEC 1961

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q ₁ KP	1	F1	F0	A0	F0	F0	0	A0	A0	A0	0	0
HMIN	207	246	224	207	199	220	218	100	110	109	110	109
SCAT	39.7	29.3	25.8	30.5	31.9	40.9	45.8	24.4	36.7	32.6	38.7	27.1
HMAXF	298	313	274	274	273	300	300	239	242	241	251	236
SHMAX	96	88	80	94	72	68	66	120	239	350	470	369
KM												
320		210										
310		209										
300		171	199									
290		169	177									
280		162	148	246	235	163	116	110				
270		149	109	244	234	163	107	103				
260		132	60.6	227	224	156	93.7	92.5				
250		108	23.8	191	200	141	77.0	78.8				
240		82.5		118	156	120	58.9	58.9				
230		57.8		36.6	93.0	82.7	37.2	35.6				
220		35.0			48.5	51.9	3.9	12.4				
210		15.8			19.3	29.5						
200						7.4						
190												
180												
170												
160												
150												
140												
130												
120												
110												
100												

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

18 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q ₁ KP	A0	0	0	0	0	A0	S0	A0	A0	A0	0	0
HMIN	109	108	108	108	110		100		197	239	231	232
SCAT	56.4	29.4	35.6	45.8	24.4		30.3		66.4	31.8	28.2	33.5
HMAXF	248	245	255	262	232		236		328	294	296	303
SHMAX	372	386	421	484	290		167		96	53	64	85
KM												
330											107	
320											107	
310											105	
300											102	135
290											98.2	134
280											92.9	128
270											86.4	115
260				616	647						79.0	93.7
250	442	588	613	636							70.7	58.2
240	440	584	589	609	585		334				61.6	12.4
230	430	551	544	569	584		331				51.3	
220	414	482	459	510	550		310				39.6	
210	393	386	356	438	464		273				27.4	
200	356	311	280	344	331		215				12.4	
190	306	269	241	257	243		148					
180	259	245	216	216	193		96.7					
170	232	221	195	171	160		66.2					
160	198	192	174	132	137		46.0					
150	146	156	142	121	121		35.1					
140	130	146	129	114	104		30.8					
130	123	140	123	111	90.2		29.1					
120	117	133	118	108	82.8		27.5					
110	32.9	73.8	43.7	40.4	12.4		24.6					
100							13.0					

ELECTRON DENSITY

RAYEY AF8, PUERTO RICO						60 W				19 DEC 1961			
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
Q,KP	41	1	0	0	0	0	50	0	0	0	0	0	
HMNI		109	109	109	109	110	100	200	191	212	228	206	
SCAT		25.3	33.0	36.6	39.3	33.0	40.0	21.7	30.8	41.1	45.8	42.4	
HMAXF		236	229	237	244	242	256	246	232	276	319	275	
SHMAXF		396	325	352	333	242	236	80	31	56	86	66	
KM													
320											142		
310											140		
300											136		
290											128		
280										121	116	130	
270										121	100	129	
260										117	82.0	126	
250					485	428	369	271		109	60.9	119	
240		648		515	484	427	357	267	96.7	96.9	37.5	108	
230		638	491	510	470	413	331	235	96.6	72.2	12.4	91.6	
220		582	482	487	440	380	298	175	92.8	35.8		64.2	
210		480	451	445	397	320	250	89.2	84.7			26.7	
200		380	396	385	337	243	196	12.4	58.0				
190		309	328	313	272	178	144						
180		267	272	257	215	132	102						
170		245	239	224	178	103	73.6						
160		230	212	198	152	83.7	54.4						
150		212	187	173	129	69.3	40.9						
140		187	167	147	106	61.1	32.8						
130		153	150	127	93.6	58.1	27.7						
120		133	127	119	90.6	54.8	25.4						
110		64.7	41.8	36.6	32.9	12.4	23.7						
100							13.0						

ELECTRON DENSITY

RAMEY	AFB, PUERTO RICO						60 W				20 DEC 1961			
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300		
Q ₁ KP	1	1	1	1	1	1	51		0	0	0	2		
HMIN	109	109	108	109	109	108	100	207	219	211	253	224		
SCAT	36.7	28.9	37.9	39.5	31.9	27.3	32.0	20.9	31.7	43.4	45.3	38.0		
HMAXF	238	242	231	253	254	229	247	241	279	282	347	302		
SHMAX	375	386	346	413	385	237	245	93	50	94	94	107		
KM														
350												153		
340												152		
330												148		
320												139		
310												127	214	
300												111	214	
290														
280										183	89.9	209		
270									121	182	67.1	197		
260									119	178	45.5	176		
250				541	594				110	168	24.3	144		
240	567	564		541	591		471	374	97.2	153		101		
230	561	541	491	497	510	467	440	346	77.9	125		62.1		
220	535	483	481	449	426	454	390	273	12.4	38.8		28.0		
210	489	403	453	387	343	409	321	73.4						
200	410	337	409	326	275	329	233							
190	314	293	349	277	226	247	152							
180	262	266	292	243	194	178	96.9							
170	235	247	250	216	171	133	65.6							
160	204	227	223	193	150	107	48.0							
150	173	203	198	172	131	90.3	37.6							
140	139	177	171	156	115	78.5	31.6							
130	126	147	147	130	100	72.9	28.6							
120	121	130	132	114	90.1	57.2	27.2							
110	36.1	25.1	73.8	37.2	33.3	20.5	25.0							
100							13.0							

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

21 DEC 1961

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q ₁ KP	F2	F2	1	1	F1	F1	F1	S1	0	0	0	0
HMIN	227	242	260	231	202	197	219	110	109	109	108	109
SCAT	34.0	34.5	37.2	29.3	23.0	45.3	41.8	29.3	33.7	37.2	28.4	35.2
HMAXF	307	315	331	294	244	300	320	255	235	250	239	236
SHMAX	101	99	98	103	64	66	93	127	253	423	409	393
KM												
340			197									
330			197									
320		213	192					151				
310	210	212	181			98.5	149					
300	207	203	163	266		98.5	143					
290	196	185	140	265		97.2	132					
280	177	159	111	251		93.6	118					
270	150	124	72.9	220		87.1	101					
260	115	76.6	12.4	166		79.4	80.3	238		619		
250	72.6	35.8		99.6	236	69.8	61.6	237		619		
240	40.5			39.7	235	59.5	42.4	222	422	607	747	602
230	16.2				215	48.7	25.8	198	420	573	729	597
220					162	37.7	3.1	159	402	517	668	571
210					49.0	26.5		115	365	431	549	520
200						12.4		80.3	307	345	396	438
190								56.3	243	282	293	341
180								40.4	187	236	240	277
170								33.0	149	202	205	242
160								30.3	124	177	171	218
150								28.7	105	154	140	192
140								27.4	93.4	134	126	161
130								25.8	68.4	125	119	140
120								23.4	53.2	94.4	115	132
110								12.4	30.3	33.3	73.8	38.1

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

21 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q ₁ KP	0	0	1	1	1	1	S1	1	1	1	1	2
HMIN	108	108	105	109	104	111	100	198	199	227	218	201
SCAT	24.9	30.7	45.1	32.9	29.0	28.2	31.6	36.1	45.9	32.9	41.5	34.5
HMAXF	217	222	240	247	248	242	245	251	272	281	303	271
SHMAX	307	302	348	336	322	275	253	89	60	47	82	72
KM												
310												148
300												148
290											120	145
280												
270												
260												
250				409	469	529	541	517	214	108	91.1	82.8
240				409	464	520	540	513	210	101	61.5	59.3
230				583	466	388	391	410	457	435	175	62.2
220				570	449	361	338	325	367	334	136	35.8
210				517	404	329	289	257	259	238	63.5	4.7
200				399	348	299	249	211	181	151		
190				240	499	272	218	176	129	94.3		
180				247	260	250	191	146	102	64.5		
170				226	230	231	166	119	83.1	46.1		
160				195	199	206	138	103	70.8	36.4		
150				163	166	181	125	96.0	65.4	30.8		
140				137	142	141	118	92.3	63.3	27.1		
130				131	132	126	113	88.3	55.1	25.5		
120				73.8	63.3	83.1	39.4	60.5		24.0		
110										13.0		
100												

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

22 DEC 1961

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q ₁ KP	2	2	0	0	0	A1	1	S1	3	A3	A3	A2
HMIN	217	219	227	214	210	218	207	100	110	108	108	108
SCAT	31.5	36.9	41.9	37.5	52.1	41.9	40.2	35.8	20.6	24.8	31.5	34.4
HMAXF	282	286	320	285	301	312	294	255	235	224	224	244
SHMAX	77	74	106	89	111	106	101	210	291	294	327	424
KM												
320			178			184						
310			176			178	184					
300			169			178	181	187				
290	188	163	156	186	176	172	186					
280	188	162	139	185	171	158	181					
270	181	156	119	178	163	135	170					
260	165	144	94.4	165	151	109	152	338				
250	140	122	70.6	143	130	82.6	126	337				
240	98.3	85.0	40.8	111	101	56.4	96.0	323	714			619
230	49.0	44.0	16.2	72.4	67.5	33.4	62.0	296	701	616	536	594
220	19.9	12.4		32.1	35.7	12.4	37.1	255	614	611	534	545
210								205	431	566	509	473
200								156	276	462	457	390
190								115	187	317	376	321
180								86.0	147	226	306	274
170								66.9	119	186	252	241
160								54.2	97.2	152	221	214
150								46.1	83.7	124	190	190
140								40.2	75.7	107	157	158
130								36.0	69.9	101	130	135
120								33.7	60.3	92.4	120	127
110								31.1	12.4	38.1	66.6	54.4
100								19.7				

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO

60 W

22 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q ₁ KP	2	2	1	1	1	1	S1	1	2	2	F2	3
HMIN	108	109	108	109	108	108	100	191	208	221	229	199
SCAT	40.0	41.4	40.3	42.9	30.4	29.6	22.7	22.8	44.8	27.0	33.2	31.1
HMAXF	230	264	240	237	238	252	244	231	218	279	296	270
SHMAX	356	506	367	323	329	326	256	86	74	62	69	77
KM												
300											124	156
290											123	155
280												
270			556								119	173
260			555			541					112	168
250			540			590	675				102	151
240	510	507	501	430	562	568	670	310	70.9	71.1	43.5	132
230	510	463	493	427	552	511	613	310	52.6	34.9	12.4	107
220	501	433	468	413	514	423	495	293	33.0			
210	477	410	432	387	440	319	342	246	12.4			
200	438	375	383	350	345	233	173	138				
190	370	334	325	306	260	174	89.1					
180	302	293	270	259	206	137	54.2					
170	264	256	235	222	176	113	39.4					
160	242	228	204	193	152	95.0	31.8					
150	205	210	176	166	133	83.5	26.8					
140	159	185	148	142	118	73.4	23.9					
130	140	145	135	123	102	65.1	22.4					
120	132	131	127	114	94.6	61.0	21.6					
110	49.1	33.0	38.1	37.2	37.6	20.5	19.9					
100							13.0					

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO												60 W	23 DEC 1961			
TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100				
Q ₁ KP	3	3	A3	F3	F3	F2	F2	S2	A3	A3	A3	A1				
HMIN	217	248	260	229	237	218	259	100	109		110					
SCAT	28.3	39.0	38.1	28.8	35.4	47.8	33.1	34.7	34.0		35.1					
HMAXF	278	339	343	289	309	314	328	262	260		267					
SHMAX	66	88	85	77	79	125	70	176	325		669					
KM																
350			163													
340		156	163													
330		154	158				155									
320		147	148			205	153									
310		135	133		170	205	144									
300		118	112		167	201	128									
290		97.1	83.7	196	157	192	104									
280	170	73.6	54.1	191	140	179	74.9									
270	166	51.8	28.6	174	115	161	44.7	271	512		1121					
260	153	32.9	1.9	144	80.2	135	12.4	271	512		1109					
250	128	12.4		108	42.9	100		263	501		1055					
240	93.6			55.2	16.2	62.4		243	467		955					
230	51.6			12.4		34.6		215	410		776					
220	19.3					12.4		180	336		551					
210								144	265		386					
200								110	208		297					
190								84.4	169		253					
180								66.0	137		221					
170								52.7	111		197					
160								43.7	90.4		177					
150								37.2	79.1		138					
140								33.4	73.5		124					
130								31.1	67.0		120					
120								29.8	56.0		101					
110								26.9	22.0		12.4					
100								15.6								

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO												60 W	23 DEC 1961			
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300				
Q ₁ KP	1	A1	A1	A1	A1	A4	A4	A4	A3	3	3	2				
HMIN	104	108	109	107	109	109		199	210	218	220	240				
SCAT	57.8	28.4	36.8	44.8	34.9	43.8		29.8	26.3	34.8	40.3	41.3				
HMAXF	261	239	241	248	239	258		275	256	284	309	324				
SHMAX	642	442	442	393	335	339		196	97	98	127	132				
KM																
330															244	
320															244	
310															224	237
300															220	224
290															225	210
280															224	176
270	754														215	172
260	754														193	138
250	747														167	110
240	729	723	663	508	515	451									143	83.0
230	700	705	647	492	505	423									122	73.1
220	658	642	606	462	475	383									113	3.1
210	593	530	539	419	423	332									104	
200	505	414	444	356	352	275									104	
190	412	332	349	298	281	222									104	
180	329	284	285	254	228	173									104	
170	273	257	248	224	191	132									104	
160	242	238	222	198	164	104									104	
150	215	219	198	170	142	86.3									104	
140	186	178	171	140	124	75.9									104	
130	159	148	143	127	110	69.1									104	
120	140	135	136	112	102	65.8									104	
110	60.4	38.7	27.3	26.0	30.3	22.0									104	

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO												60 W	24 DEC 1961			
TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100				
Q ₁ KP	2	2	2	2	F2	F2	F2	S2	3	3	3	3				
HMIN	239	240	229	210	217	227	206	110	110	108	109	108				
SCAT	37.1	36.0	36.9	25.9	42.7	31.5	44.9	33.3	35.9	41.7	34.3	38.2				
HMAXF	322	319	313	262	302	299	315	267	258	254	250	249				
SHMAX	127	142	135	95	131	111	153	170	352	572	515	464				
KM																
330	246						235									
320	246	295	258													
310	240	290	257		235		234									
300	225	274	249		235	240	228									
290	201	247	232		231	234	215									
280	170	209	206		220	216	198									
270	131	152	173	295	203	191	176	278								
260	84.5	85.1	131	294	179	157	149	274	531	878	834					
250	43.5	40.6	86.0	279	146	117	121	258	525	876	834	648				
240	12.4	3.7	42.6	241	106	69.5	90.1	232	497	854	815	639				
230			12.4	159	58.7	24.0	58.5	201	450	813	763	607				
220				56.7	21.4		35.8	164	383	732	668	553				
210				4			18.1	125	314	611	538	484				
200								91.2	250	468	401	402				
190								65.6	199	329	305	330				
180								47.4	160	246	253	283				
170								36.1	132	203	216	247				
160								31.3	112	174	182	210				
150								28.6	97.5	149	152	176				
140								27.1	88.4	131	129	139				
130								26.3	72.0	120	120	130				
120								24.5	59.2	98.3	115	126				
110								13.0	12.4	35.7	41.8	54.4				

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO							60 W	24 DEC 1961						
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300		
Q ₁ KP	3	A3	2	2	2	2	S2	A2	A0	A0	0	0		
HMIN	109	109	109	108	109	108		199	219	218	218	213		
SCAT	32.4	37.4	40.2	37.7	23.5	30.7		39.0	43.3	39.6	49.3	43.4		
HMAXF	241	238	252	268	235	241		270	303	299	319	296		
SHMAX	463	407	447	560	375	301		138	88	99	125	100		
KM														
320											194			
310										153	192			
300										153	193	187		
290										150	190	177		
280										143	182	163		
270					744					167	142	170		
260				594	736			270		131	167	142		
250	691		593	703		539		266	116	143	115	154		
240	691	588	580	646	779	539		253	94.6	107	87.6	127		
230	671	581	549	564	769	520		231	71.5	71.0	59.6	90.4		
220	620	554	499	480	695	473		203	42.6	38.9	34.5	51.3		
210	536	506	433	394	546	395		165	12.4	12.4	12.4	24.5		
200	447	430	364	330	376	309		110						
190	370	347	310	286	272	227	38.4							
180	311	293	270	255	217	169								
170	271	259	240	228	182	133								
160	241	232	215	203	155	109								
150	214	210	191	178	135	91.8								
140	188	186	153	150	122	80.4								
130	160	151	139	129	116	72.0								
120	144	137	106	109	110	68.4								
110	59.8	24.1	12.4	20.6	27.3	20.5								

ELECTRON DENSITY

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	1	1	0		AO	A1	A1	0	AO			1
HMIN	104	108	108	10H	110	109		200	21R		209	239
SCAT	32.4	40.6	77.3	43.3	33.4	30.5		34.2	52.1		42.6	39.0
HMAXF	229	230	290	283	258	248		260	302		289	325
SHMAX	401	364	612	640	495	406		96	83		73	91
KM												
330												163
320												163
310												157
300												146
290			515	815								131
280			512	815								131
270			506	798				229	123		134	110
260			495	760	815			229	113		119	64.4
250			480	702	804	808		223	97.3		106	39.3
240		510	459	613	757	793		208	75.5		86.6	12.4
230	651	510	437	511	673	735		182	47.0		58.3	
220	639	502	411	413	547	623		138	16.5		31.6	
210	596	478	381	332	410	463		73.4			6.4	
200	522	438	349	280	301	290		12.4				
190	417	386	318	246	239	194						
180	327	323	288	221	203	149						
170	274	276	260	200	175	125						
160	238	247	237	181	152	104						
150	206	217	215	158	131	88.9						
140	173	174	186	113	116	80.0						
130	147	137	141	101	110	76.0						
120	139	127	127	96.3	90.0	54.9						
110	99.7	79.9	79.8	71.2	12.4	12.4						

ELECTRON DENSITY

RAYEY AFB, PUERTO RICO				60 W				26 DEC 1961				
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q _z KP	A1	A1	A1	A1	A1	1	A1	A1	3	3	F3	F3
HMIN				109	109	107		200	199	210	256	260
SCAT				37.3	36.7	36.0		33.3	39.1	45.0	35.1	40.8
HMAXF				257	255	249		267	271	307	331	347
SHMAX				581	417	337		142	79	109	105	135
KM												
350												246
340											214	244
330											213	236
320											208	219
310										176	193	196
300										175	171	164
290										170	143	122
280									162	160	108	73.0
270								310	162	146	65.4	37.2
260				936	619			306	159	128	27.3	3.9
250				929	616	564		289	151	106		
240				889	594	556		257	137	80.3		
230				187	547	527		218	117	52.0		
220				683	486	475		164	83.7	28.2		
210				512	409	395		98.2	44.9	1.9		
200				362	334	297		12.4	12.4			
190				279	267	211						
180				233	210	158						
170				203	168	124						
160				185	133	101						
150				170	111	84.1						
140				136	105	72.5						
130				113	101	67.5						
120				107	93.3	65.0						
110				30.3	28.5	38.4						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 27 DEC 1961

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q _{KP}	3	3	F2	2	A2	F2	F2	S2	A2	A2	A2	A1
HMIN	228	236	248	214	221	207	225	110	109			
SCAT	33.8	31.3	30.0	29.1	36.5	37.3	61.1	27.2	30.9			
HMAXF	312	303	309	281	295	297	350	242	239			
SHMAX	131	125	99	115	86	82	134	151	255			
KM												
350								162				
340								161				
330								158				
320	268							152				
310	267	296	246					144				
300	260	295	241		179	148	135					
290	239	283	221	283	178	147	125					
280	211	255	190	283	172	141	111					
270	173	213	146	272	158	129	93.8					
260	125	152	75.8	245	138	114	73.9					
250	73.1	83.0	19.3	204	107	94.5	54.8	300				
240	37.9	27.3		147	69.6	73.7	36.8	300	448			
230	12.4			77.4	36.4	52.2	19.7	286	440			
220				32.1		32.8		252	407			
210						15.3		207	353			
200								158	287			
190								112	220			
180								76.8	168			
170								53.9	128			
160								40.4	102			
150								32.6	84.2			
140								29.4	76.1			
130								28.0	65.6			
120								26.7	50.3			
110								15.6	12.4			

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 27 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q _{KP}	A1	A1	A2	A2	A2	1	S1	A1	A2	A2	A2	A2
HMIN			109	109	114	109		200	210	197	196	248
SCAT			62.8	29.4	45.2	33.0		26.0	30.8	45.2	65.1	39.5
HMAXF			271	248	266	268		250	263	305	337	328
SHMAX			596	417	458	414		116	82	86	133	98
KM												
340											149	
330											149	184
320											147	182
310										127	143	174
300										126	137	160
290										123	129	141
280			621							116	120	114
270			621		588	648				225	107	109 79.7
260			617		586	638				224	96.3	95.1 47.8
250			604	678	571	598			342	214	83.4	80.6 16.8
240			583	666	540	529			329	193	69.4	65.3
230			553	616	497	442			291	150	54.8	49.9
220			518	525	442	351			228	77.2	40.9	36.3
210			475	416	381	281			135		27.6	24.9
200			420	323	316	226			12.4		12.4	12.4
190			356	265	260	182						
180			297	227	216	148						
170			252	200	182	122						
160			220	176	153	102						
150			193	150	130	86.6						
140			172	132	114	76.5						
130			155	123	107	70.7						
120			138	117	50.2	64.4						
110			33.0	30.3		12.4						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 28 DEC 1961

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q _{KP}	A2	A2	A2	A2	2	4	4	S4	4	A4	A4	A4
HMIN	230	229	269	248	208	238	247	110	110			
SCAT	33.2	29.4	30.6	27.1	39.2	53.6	43.9	36.1	34.2			
HMAXF	304	300	339	302	278	347	345	276	260			
SHMAX	94	92	105	97	97	104	86	184	422			
KM												
350								142	142			
340				237				141	141			
330				233				138	138			
320				215				133	130			
310	206	214	188	270				125	119			
300	205	214	153	270				114	103			
290	196	207	110	256				101	83.2			
280	178	189	59.1	224	205	86.5	62.9	281				
270	152	160	12.4	172	203	70.7	44.0	280				
260	117	124		98.3	194	54.4	28.0	268	740			
250	69.1	81.0		28.5	179	36.9	12.4	246	725			
240	34.3	41.5			154	12.4		213	678			
230		12.4			112			175	598			
220					56.9			139	472			
210					16.8			107	336			
200								82.1	239			
190								63.8	176			
180								50.7	137			
170								41.9	111			
160								35.7	93.5			
150								31.9	83.7			
140								29.4	79.1			
130								28.0	61.7			
120								27.1	55.6			
110								15.6	12.4			

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 28 DEC 1961

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q _{KP}	A4	A4	A3	A3	A3	A4	A4	A4	A4	A4	4	3
HMIN								198	199	247	228	223
SCAT								40.7	46.8	33.9	45.9	38.3
HMAXF								297	287	324	329	301
SHMAX								160	113	94	137	118
KM												
330											196	214
320											195	212
310											188	205 234
300										281	172	192 234
290										279	194	148 174 230
280										269	193	118 151 217
270										250	187	85.0 125 197
260										220	178	46.5 96.8 166
250										181	163	19.3 68.3 126
240										140	137	38.9 78.3
230										96.9	102	12.4 34.1
220										58.8	71.2	
210										33.1	41.9	
200										12.4	12.4	

ELECTRON DENSITY

[illegible]

AVERAGE ELECTRON DENSITY

60 W

DEC 1961

KP BELOW 4.5

RAMEY AF8, PUERTO RICO

TIME 0000 0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100

COUNT 28 28 29 28 28 26 27 24 26 19 22 20
 KP 1.7 1.7 1.4 1.4 1.4 1.5 1.4 1.5 1.3 1.1 1.2 1.4
 HMIN 226 230 234 221 214 217 221 104 109 109 109 109
 RATIO 7.1 6.9 7.3 7.6 7.0 6.5 5.9 5.9 6.0 5.8 5.7 5.5
 SCAT 35.1 35.8 34.5 35.1 41.6 41.5 43.2 32.7 33.1 32.2 33.3 36.7
 NMAX 196 205 216 234 199 147 147 281 529 663 767 764
 HMAXF 304 307 310 292 298 304 311 250 242 243 244 246
 SHMAX 94 98 103 104 101 83 85 165 301 390 461 494
 SHINF 647 676 713 763 662 498 499 958 1792 2260 2624 2648

KM 950 12.8 13.6 14.7 14.4 12.5 9.7 9.9 14.1 25.5 31.8 37.4 37.5
 900 16.4 17.4 18.9 18.4 16.0 12.4 12.8 18.0 32.7 40.8 48.0 48.1
 850 21.0 22.3 24.2 23.6 20.5 15.9 16.4 23.2 42.0 52.4 61.5 61.8
 800 27.0 28.6 31.0 30.3 26.3 20.4 21.0 29.7 53.8 67.2 79.0 79.3
 750 34.6 36.6 39.7 38.8 33.7 26.2 26.9 38.1 69.0 86.2 101 102
 700 44.2 46.9 50.8 49.7 43.2 33.5 34.3 48.8 88.5 110 130 130
 650 56.4 59.8 64.7 63.4 55.1 42.7 43.8 62.4 113 141 166 167
 600 71.7 75.9 82.1 80.7 70.0 54.3 55.6 79.7 145 181 212 213
 550 90.4 95.8 103 102 88.4 68.4 70.1 101 184 230 270 270
 500 113 119 129 128 110 85.3 87.2 128 233 291 341 341
 450 138 146 157 157 135 104 106 160 291 364 427 427

440 144 152 162 163 141 108 110 167 304 380 445 445
 430 149 157 168 170 146 112 114 174 317 397 465 464
 420 154 163 174 176 151 116 118 181 331 414 484 484
 410 159 168 179 182 156 120 122 189 345 431 504 504
 400 164 173 185 188 161 124 126 196 359 448 525 524
 390 169 178 190 194 166 127 129 204 373 466 546 544
 380 174 183 194 200 171 131 133 212 387 484 566 565
 370 178 188 199 206 175 134 136 219 402 502 587 585
 360 182 192 202 211 179 137 138 227 416 520 608 606
 350 186 195 205 216 183 139 141 234 430 538 629 626
 340 189 198 207 220 186 141 143 241 444 556 649 645
 330 191 200 208 224 188 143 144 248 457 573 668 664
 320 192 201 205 227 190 143 144 255 470 589 686 681
 310 191 200 200 229 189 143 143 261 482 604 704 698
 300 188 194 191 228 188 140 139 266 494 618 719 713
 290 180 183 177 223 183 135 133 271 503 631 733 726
 280 166 165 159 214 177 126 123 275 512 642 745 738
 270 144 141 135 196 167 114 110 278 519 651 755 746
 260 117 110 107 169 152 98.5 93.2 279 524 657 761 751
 250 84.6 79.3 79.0 135 133 80.1 74.6 276 525 661 761 750
 240 55.7 49.1 51.4 98.8 109 59.9 53.7 267 518 656 748 742
 230 30.3 27.3 27.8 59.0 77.3 41.8 32.2 248 496 633 706 718
 220 13.1 11.5 14.8 28.3 44.2 25.8 13.3 217 448 578 625 662
 210 2.8 2.4 5.5 9.8 15.4 14.0 2.9 178 377 486 515 566
 200 .4 .9 1.8 1.9 5.7 .5 138 298 375 405 441
 190 103 103 103 103 103 103 103 228 284 319 340
 180 76.6 172 225 262 282 282 282 282 282 282 282
 170 58.5 134 185 224 246 246 246 246 246 246 246
 160 46.9 108 154 193 217 217 217 217 217 217 217
 150 39.4 92.7 130 163 188 188 188 188 188 188 188
 140 35.1 83.3 115 139 159 159 159 159 159 159 159
 130 32.7 70.4 104 124 137 137 137 137 137 137 137
 120 30.0 59.3 93.6 112 126 126 126 126 126 126 126
 110 23.0 22.1 47.8 47.4 54.0 54.0 54.0 54.0 54.0 54.0 54.0
 100 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7

AVERAGE ELECTRON DENSITY

60 W

DEC 1961

KP BELOW 4.5

RAMEY AF8, PUERTO RICO

TIME 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300

COUNT 20 22 20 21 23 18 9 25 26 27 27 27
 KP 1.4 1.5 1.0 1.1 1.2 1.4 1.0 1.6 1.5 1.5 1.4 1.7
 HMIN 108 108 109 109 110 109 100 200 208 223 224 221
 RATIO 5.4 5.1 4.9 4.9 5.5 6.1 6.8 8.1 6.2 6.5 6.0 6.8
 SCAT 36.2 36.1 41.7 39.4 35.5 32.7 29.8 34.7 46.0 40.5 42.3 36.9
 NMAX 680 679 599 694 719 645 433 252 150 158 175 194
 HMAXF 239 245 249 259 253 250 240 263 294 306 315 298
 SHMAX 447 470 442 498 451 360 209 106 85 84 100 96
 SHINF 2365 2386 2130 2456 2478 2181 1431 817 509 529 595 643

KM 950 32.4 33.5 29.9 36.7 36.7 32.5 20.6 13.4 9.3 10.4 12.1 12.4
 900 41.6 43.0 38.4 47.2 47.1 41.8 26.4 17.2 11.9 13.4 15.6 15.9
 850 53.4 55.1 49.3 60.5 60.5 53.6 33.9 22.1 15.2 17.1 20.0 20.4
 800 68.5 70.7 63.2 77.7 77.6 68.8 43.5 28.4 19.5 22.0 25.6 26.1
 750 87.8 90.7 81.1 99.6 99.5 88.2 55.8 36.4 25.0 28.2 32.8 33.5
 700 113 116 104 128 128 113 71.6 46.6 32.0 36.0 41.9 42.8
 650 144 149 133 163 163 144 91.6 59.6 40.9 45.9 53.4 54.6
 600 184 190 170 208 208 184 117 75.9 52.0 58.3 67.8 69.4
 550 234 241 216 264 264 234 149 96.4 65.8 73.6 85.4 87.7
 500 296 305 272 333 334 296 188 121 82.3 91.7 106 110
 450 371 381 340 414 417 370 236 151 101 112 129 134

440 387 398 355 432 435 386 246 158 105 116 134 140
 430 404 415 370 450 453 402 257 164 109 121 139 145
 420 421 433 386 468 472 419 268 171 113 125 144 150
 410 439 451 402 487 491 436 279 177 117 129 148 155
 400 457 469 418 506 510 454 291 184 121 133 152 165
 390 475 487 434 525 530 471 303 191 125 137 157 165
 380 493 505 450 543 549 489 314 198 129 141 161 170
 370 512 524 466 562 569 506 326 204 132 144 164 174
 360 530 542 482 580 588 524 338 211 136 147 167 178
 350 548 560 498 598 607 541 350 217 139 150 170 182
 340 566 578 513 615 625 557 361 223 142 152 172 185
 330 584 595 528 630 642 573 372 229 144 154 173 187
 320 600 611 541 645 658 588 383 234 146 155 173 189
 310 616 625 554 658 673 601 393 239 147 154 171 188
 300 630 639 566 669 686 614 402 243 146 150 165 185
 290 643 651 576 679 697 624 411 246 145 144 155 178
 280 654 661 584 685 706 633 418 247 142 134 140 167
 270 664 669 590 685 712 639 424 247 136 120 152 172
 260 670 673 592 677 713 641 429 243 127 101 96.1 131
 250 671 669 589 658 702 635 431 234 115 78.1 70.1 108
 240 665 653 578 621 674 612 429 217 97.8 53.4 46.4 80.5
 230 651 621 553 565 620 563 411 186 74.4 31.3 25.1 51.2
 220 620 565 510 490 539 484 373 140 47.1 15.4 10.5 26.7
 210 557 490 446 407 438 381 309 80.5 21.2 6.2 4.6 8.0
 200 463 410 378 334 336 274 230 20.1 6.3 2.3 1.4 .9
 190 363 339 315 278 257 196 157 157 157 157 157
 180 294 289 268 238 205 145 102 102 102 102 102
 170 254 256 235 207 170 113 67.5 67.5 67.5 67.5 67.5
 160 223 229 206 181 143 92.2 47.8 47.8 47.8 47.8 47.8
 150 190 201 180 158 122 78.1 36.8 36.8 36.8 36.8 36.8
 140 161 171 155 134 108 69.1 30.6 30.6 30.6 30.6 30.6
 130 142 143 135 119 98.7 64.2 27.4 27.4 27.4 27.4 27.4
 120 130 131 122 108 85.2 56.8 25.9 25.9 25.9 25.9 25.9
 110 54.8 56.8 35.5 31.2 22.6 14.8 23.7 23.7 23.7 23.7 23.7
 100 13.3 13.3 13.3 13.3 13.3 13.3 13.3 13.3 13.3 13.3 13.3

SEPTEMBER 1961 • SEPTEMBER 1954

FAIRBANKS, ALASKA (64.9N, 147.9W)

[illegible]

MOUR	WASHINGTON, D.C. (38.77N 77.14E)																								TIME T=5.5			
	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	348	37	355	33	35	38	42	36	35	675	70	685	73	734	74	73	76	775	73	58	52	45	38				
	CNT	30	28	30	30	30	29	29	30	30	30	30	30	30	30	30	30	30	30	30	28	22	28	28				
	LO	403	42	41	37	33	32	46	63	70	71	73	76	78	78	79	79	80	82	80	70	60	51	49				
	U	34	30	29	27	25	22	35	51	58	62	64	66	65	68	68	67	66	72	72	55	56	48	40	35			
f6 F2	MED	250	260	260	305	305	305	295	250	2675	270																	
	CNT	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250				
	LO	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240				
	U	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240				
f6 F2	MED	280	275	280	275	280	270	2525	335	220	210	400	400	200	205	2175	255	235	240	2625	3325	230	245	260	280			
	CNT	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250				
	LO	270	270	270	260	255	260	245	230	215	210	200	195	200	200	210	220	230	235	230	225	235	250	265				
	U	270	270	270	260	255	260	245	230	215	210	200	195	200	200	210	220	230	235	230	225	235	250	265				
f6 F2	MED	285	290	300	300	300	320	340	335	330	320	315	310	305	310	310	310	315	315	310	300	290	290	290				
	CNT	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280				
	LO	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280				
	U	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280				
f6 F1	MED	430	450	480	455					430	450	480	455															
	CNT	430	450	480	455					430	450	480	455															
	LO	430	450	480	455					430	450	480	455															
	U	430	450	480	455					430	450	480	455															
f6 E	MED	170	235	280	310	330	340	340	345	325	3175	285	240															
	CNT	6	26	26	26	26																						
	LO	124	135	160	160	160	165	165	165	165	167	169	170															
	U	6	28	30	30	29	29	29	30	30	30	30	30															
f6 E	MED	30	30	30	30	30	28	30	31	34																		
	CNT	30	30	30	30	30	28	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30				
	LO	30	30	30	30	30	28	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30				
	U	30	30	30	30	30	28	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30				

ANCHORAGE: $\Delta I_A \leq K_A [A] + 2N$, 149-941[illegible]

1048 • J. Neurosci., August 6, 2003 • 23(18):1043–1048

[illegible]

MEASURED 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

SWEEP 1.0 MC TO 25.0 MC IN 1.5 SECONDS.

TABLE 6

MOAK, ALASKA (51.9N, 176.6W)

AGASS, ALASKA (51+5N, 176+6W)																								TIME 18000			
HOUR		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	315	315	311	305	311	305	295	285	275	265	255	245	235	225	215	205	195	185	175	165	155	145	135	125		
	MOD	310	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205	200		
	LO	306	306	301	296	291	286	281	276	271	266	261	256	251	246	241	236	231	226	221	216	211	206	201	196		
	HI	324	324	319	314	309	304	299	294	289	284	279	274	269	264	259	254	249	244	239	234	229	224	219	214		
17 F2	MED	310	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205	200		
	MOD	306	306	301	296	291	286	281	276	271	266	261	256	251	246	241	236	231	226	221	216	211	206	201	196		
	LO	302	302	297	292	287	282	277	272	267	262	257	252	247	242	237	232	227	222	217	212	207	202	197	192		
	HI	315	315	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205		
18 F2	MED	310	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205	200		
	MOD	306	306	301	296	291	286	281	276	271	266	261	256	251	246	241	236	231	226	221	216	211	206	201	196		
	LO	302	302	297	292	287	282	277	272	267	262	257	252	247	242	237	232	227	222	217	212	207	202	197	192		
	HI	315	315	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205		
19 F2	MED	310	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205	200		
	MOD	306	306	301	296	291	286	281	276	271	266	261	256	251	246	241	236	231	226	221	216	211	206	201	196		
	LO	302	302	297	292	287	282	277	272	267	262	257	252	247	242	237	232	227	222	217	212	207	202	197	192		
	HI	315	315	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205		
20 F2	MED	310	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205	200		
	MOD	306	306	301	296	291	286	281	276	271	266	261	256	251	246	241	236	231	226	221	216	211	206	201	196		
	LO	302	302	297	292	287	282	277	272	267	262	257	252	247	242	237	232	227	222	217	212	207	202	197	192		
	HI	315	315	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205		
21 F2	MED	310	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205	200		
	MOD	306	306	301	296	291	286	281	276	271	266	261	256	251	246	241	236	231	226	221	216	211	206	201	196		
	LO	302	302	297	292	287	282	277	272	267	262	257	252	247	242	237	232	227	222	217	212	207	202	197	192		
	HI	315	315	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205		
22 F2	MED	310	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205	200		
	MOD	306	306	301	296	291	286	281	276	271	266	261	256	251	246	241	236	231	226	221	216	211	206	201	196		
	LO	302	302	297	292	287	282	277	272	267	262	257	252	247	242	237	232	227	222	217	212	207	202	197	192		
	HI	315	315	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205		
23 F2	MED	310	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205	200		
	MOD	306	306	301	296	291	286	281	276	271	266	261	256	251	246	241	236	231	226	221	216	211	206	201	196		
	LO	302	302	297	292	287	282	277	272	267	262	257	252	247	242	237	232	227	222	217	212	207	202	197	192		
	HI	315	315	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205		

TABLE 9

POINT BARROW. ALASKA (71-3N. 156-00W)

		POINT BARROW, ALASKA (71.3N, 156.6W)																TIME 1500-0							
		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	465	48	42	46	435	42	475	50	555	565	56	55	59	615	645	68	705	60	60	59	44	44	44	43
	QNT	26	61	55	52	51	47	50	60	58	60	65	68	70	70	74	78	78	76	76	71	56	50	48	48
	LO	43	44	36	42	38	37	44	45	44	46	48	52	54	55	58	60	58	55	50	44	40	40	40	40
hF2	MED																								
	QNT																								
	LO																								
h'F	MED																								
	QNT																								
	LO																								
f6F1	MED	275	265	265	285	255	255	265	265	265	2675	2725	275	2725	265	2675	265	270	280	290	295	U	U	U	U
	QNT	265	269	277	282	247	257	270	275	260	260	260	265	260	260	260	265	269	283	300	300	300	300	300	270
	LO	210	250	260	260	200	250	255	260	230	225	240	245	255	255	255	255	260	270	285	280	280	270	260	260
f6E	MED																								
	QNT																								
	LO																								
h'E	MED																								
	QNT																								
	LO																								
f6Eh	MED	55	50	415	45	42	26	23																	
	QNT	29	29	28	29	28	27	27	26	27	31	26	23	25	28	28	28	29	27	27	28	30	33	37	52
	LO																								

TABLE 5

[illegible]

TABLE 7

04C110-9 1 116 AN 120.6E

BAGUIDO, P., I., 116, 5N, 120 (E)													TIME 120.00												
HOUR	D												D												
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
f6P2	MED	109	102	91	645	49	41	64	100	115	130	1295	1204	150	120	123	137	120	106	110	1074	119	110	1165	118
	CMD	120	114	112	74	54	52	69	103	124	137	138	156	126	130	156	144	130	122	120	116	115	122	128	124
	LO	99	90	80	56	41	39	61	95	109	121	118	116	110	116	114	110	104	100	100	100	102	97	100	109
	MED CNT																								
f6P2	MED													1	2										
	CMD																								
	LO																								
	MED CNT																								
f6P	MED	250	245	235	235	2675	2675	285	260	U	E			240	230	235	245	260	275	300	3374	285	260	250	250
	CMD	240	240	250	280	310	310	259	265	251	250	260	265	255	250	260	255	280	319	368	301	271	251	261	261
	LO	240	235	225	230	245	260	275	255	245	235	230	230	230	225	230	240	255	270	260	290	270	259	245	245
	MED CNT																								
f6M3000IF2	MED	315	3175	320	310	300	390	300	305	300	280	260	245	245	250	260	260	270			265	305	3125	320	
	CMD	330	330	330	320	321	405	279	311	288	337	285	260	265	260	254	259				303	312	320		
	LO	310	305	310	270	280	265	285	300	290	270	250	235	230	235	255	245	245				250	275	285	290
	MED CNT																								
f6I	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E	MED									U															
	 															
	LO									11															
	 																								
f6E	MED									U															
	 															
	LO									11															
	 																								
f6E	MED									U															
	 															
	LO									11															
	 																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															
	LO									11															
	MED CNT																								
f6E1	MED									U															
	CMD									315															

TABLE 9

GODHAYN • GREENLAND (69°3N • 53°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
f6F2	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	58	54	42	33	29	37	41	26	23	19	23	27	28	27	25	29	27	28	29	27	26	21	21	21
	LO	56	53	50	45	43	42	46	56	60	68	74	80	78	77	74	74	72	70	67	70	69	68	62	65
	U	42	36	33	30	33	37	37	38	48	56	57	62	64	60	57	58	56	56	55	54	52	48	43	45
	U																								
f6F2	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	2775	270	2425	4	2840	U	U	U	300	295	290	275	260	290	280	250	295	2825	295	294	281	275	270	280
	LO	250	280	275	280	290	310	300	290	310	300	290	290	310	300	300	305	310	300	300	295	280	280	280	280
	U	275	270	250	250	280	290	290	290	290	290	280	270	270	275	280	280	280	280	280	280	280	280	280	270
	U																								
f6F1	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	1	312	390	400	415	430	445	450	440	440	440	440	420	440	440	440	420	2	1					
	LO	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	U																								
	U																								
f6E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	3	200	250	265	2975	300	300	300	295	300	300	300	300	300	300	295	295	295	295	295	295	295	295	295
	LO	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	U																								
	U																								
f6E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	125	121	109	133	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
	LO	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	U																								
f6E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	1	4	11	12	17	19	16	18	16	13	11	10	9	2	1									
	LO	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	U																								
f6Ea	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	29	28	29	29	28	29	26	26	25	26	22	25	25	28	27	28	27	29	30	30	30	30	30	30
	LO	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	U																								

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS.

SEPTEMBER, 1960

TABLE 11

ANCHORAGE, ALASKA (61°2N, 149°9W)

MO-OST 3W1

[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

SEPTEMBER, 1960

TABLE 10

REYKJAVIK, ICELAND (66.1N, 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
f6F2	MED CNT	D ₀₋₂₀	U ₂₁₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀	
	MED CNT	46	44	46	44	49	52	51	66	70	81	82	84	84	84	84	84	84	84	84	84	84	84	84	
	MED CNT	36	38	35	38	35	38	40	51	55	59	60	66	65	66	65	64	63	60	56	50	45	40	40	
	MED CNT	U ₀₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀		
f6F2	MED CNT	D ₀₋₂₀	U ₂₁₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀	
	MED CNT	46	44	46	44	49	52	51	66	70	81	82	84	84	84	84	84	84	84	84	84	84	84	84	
	MED CNT	36	38	35	38	35	38	40	51	55	59	60	66	65	66	65	64	63	60	56	50	45	40	40	
	MED CNT	U ₀₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀		
f6F2	MED CNT	D ₀₋₂₀	U ₂₁₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀	
	MED CNT	46	44	46	44	49	52	51	66	70	81	82	84	84	84	84	84	84	84	84	84	84	84	84	
	MED CNT	36	38	35	38	35	38	40	51	55	59	60	66	65	66	65	64	63	60	56	50	45	40	40	
	MED CNT	U ₀₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀		
f6F2	MED CNT	D ₀₋₂₀	U ₂₁₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀	
	MED CNT	46	44	46	44	49	52	51	66	70	81	82	84	84	84	84	84	84	84	84	84	84	84	84	
	MED CNT	36	38	35	38	35	38	40	51	55	59	60	66	65	66	65	64	63	60	56	50	45	40	40	
	MED CNT	U ₀₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀		
f6F2	MED CNT	D ₀₋₂₀	U ₂₁₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀	
	MED CNT	46	44	46	44	49	52	51	66	70	81	82	84	84	84	84	84	84	84	84	84	84	84	84	
	MED CNT	36	38	35	38	35	38	40	51	55	59	60	66	65	66	65	64	63	60	56	50	45	40	40	
	MED CNT	U ₀₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀		
f6F2	MED CNT	D ₀₋₂₀	U ₂₁₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀	
	MED CNT	46	44	46	44	49	52	51	66	70	81	82	84	84	84	84	84	84	84	84	84	84	84	84	
	MED CNT	36	38	35	38	35	38	40	51	55	59	60	66	65	66	65	64	63	60	56	50	45	40	40	
	MED CNT	U ₀₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀		
f6F2	MED CNT	D ₀₋₂₀	U ₂₁₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀	
	MED CNT	46	44	46	44	49	52	51	66	70	81	82	84	84	84	84	84	84	84	84	84	84	84	84	
	MED CNT	36	38	35	38	35	38	40	51	55	59	60	66	65	66	65	64	63	60	56	50	45	40	40	
	MED CNT	U ₀₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀		
f6F2	MED CNT	D ₀₋₂₀	U ₂₁₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀	
	MED CNT	46	44	46	44	49	52	51	66	70	81	82	84	84	84	84	84	84	84	84	84	84	84	84	
	MED CNT	36	38	35	38	35	38	40	51	55	59	60	66	65	66	65	64	63	60	56	50	45	40	40	
	MED CNT	U ₀₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀		
f6F2	MED CNT	D ₀₋₂₀	U ₂₁₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀	
	MED CNT	46	44	46	44	49	52	51	66	70	81	82	84	84	84	84	84	84	84	84	84	84	84	84	
	MED CNT	36	38	35	38	35	38	40	51	55	59	60	66	65	66	65	64	63	60	56	50	45	40	40	
	MED CNT	U ₀₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀		
f6F2	MED CNT	D ₀₋₂₀	U ₂₁₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀	
	MED CNT	46	44	46	44	49	52	51	66	70	81	82	84	84	84	84	84	84	84	84	84	84	84	84	
	MED CNT	36	38	35	38	35	38	40	51	55	59	60	66	65	66	65	64	63	60	56	50	45	40	40	
	MED CNT	U ₀₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀		
f6F2	MED CNT	D ₀₋₂₀	U ₂₁₋₃₀	U ₃₁₋₄₀	U ₄₁₋₅₀	U ₅₁₋₆₀	U ₆₁₋₇₀	U ₇₁₋₈₀	U ₈₁₋₉₀	U ₉₁₋₁₀₀	U ₁₀₁₋₁₁₀	U ₁₁₁₋₁₂₀	U ₁₂₁₋₁₃₀	U ₁₃₁₋₁₄₀	U ₁₄₁₋₁₅₀	U ₁₅₁₋₁₆₀	U ₁₆₁₋₁₇₀	U ₁₇₁₋₁₈₀	U ₁₈₁₋₁₉₀	U ₁₉₁₋₂₀₀	U ₂₀₁₋₂₁₀	U ₂₁₁₋₂₂₀	U ₂₂₁₋₂₃₀	U ₂₃₁₋₂₄₀	
	MED CNT	46	44	46	44	49	52	51	66	70	81	82	84	84	84	84	84	84	84	84	84	84	84	84	
	MED CNT	36	38	35	38	35	38	40	51	55	59														

SWEEP 1.0 MC TO 25.0 MC IN 16.2 SECONDS.

SEPTEMBER, 1960

TABLE 12

NARSSARSSUAG, GREENLAND (61°2N, 45°4W)

TIME 45.0W

[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

SEPTEMBER, 1960

ADAK, ALASKA (51.9N, 176.6W)

		ADAK, ALASKA (51.9N, 174.6W)																								TIME 1800.0	
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		
f6F2	MED	2.05	0.0	3.5	3.4	3.7	3.6	5.0	2.7	5.95	6.95	7.2	7.5	7.7	7.55	7.2	7.8	7.8	7.1	7.3	5.85	4.8	4.4	4.6	4.4		
	LOW	4.6	4.5	4.3	4.2	4.1	4.3	5.7	7.3	8.6	9.3	9.7	10.1	10.3	10.4	10.2	9.8	9.6	9.4	8.6	7.4	6.8	6.0	5.4	4.7		
	CUT	4.6	4.5	4.3	4.2	4.1	4.3	5.7	7.3	8.6	9.3	9.7	10.1	10.3	10.4	10.2	9.8	9.6	9.4	8.6	7.4	6.8	6.0	5.4	4.7		
	UN	35	34	33	30	29	32	43	50	52	56	57	59	60	64	63	63	63	64	63	58	57	48	42	36		
	U																										
f6F2	MED	5.44	4.84	4.155	4.45	4.50	4.40	4.50	4.10	3.40																	
	LOW	6	6	6	6	6	6	6	6	6																	
	CUT	46.7	50.0	52.8	53	50.0	52.8	53	50.0	52.8	53																
	UN	307	367	316																							
	U																										
f6F	MED	3.03	3.15	3.285	3.40	3.46	3.33	2.82	2.38	2.25	2.225	2.30	2.15	2.14	2.18	2.24	2.315	2.35	2.44	2.39	2.445	2.50	2.545	2.65	2.99		
	LOW	3.36	3.38	3.55	3.73	3.71	3.47	2.70	2.45	2.30	2.30	2.30	2.28	2.25	2.30	2.28	2.35	2.40	2.22	2.25	2.30	2.70	2.79	3.35			
	CUT	286	295	314	312	322	305	253	235	218	213	210	207	204	213	216	225	229	232	225	231	245	240	245	281		
	UN																										
	U																										
f6M3000F2	MED	2.65	2.625	2.60	2.525	2.55	2.65	2.825	3.025	3.00	2.925	3.00	2.95	2.90	2.90	2.95	3.00	3.05	3.10	3.10	3.05	3.00	2.975	2.80	2.70		
	LOW	2.85	2.825	2.80	2.725	2.75	2.85	3.025	3.00	2.925	3.00	2.95	2.90	2.90	2.95	3.00	3.05	3.10	3.10	3.05	3.00	2.975	2.80	2.70			
	CUT	260	250	250	245	245	250	260	276	270	270	270	275	270	280	285	290	295	300	300	295	290	280	275	260		
	UN																										
	U																										
f6I	MED	330	410	450	450	460	475	490																			
	CNT	4	12	11	10	12	8	7	4	3	2																
f6E	MED	2	2.10	2.60	2.95	3.20	3.40	3.40																			
	CNT	9	22	19	19	19	18	14	13	14	13	14	13	11	11	11	11	11	11	11	11	11	11	11	11		
	UN																										
	U																										
	U																										
f6E	MED	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05		
	LOW	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05		
	CUT	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05		
	UN	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05		
	U																										
f6E	MED	27	27	28	29	28	27	27	32	33	35	36.5	36														
	LOW	28	27	28	29	28	27	27	32	33	35	36.5	36														
	CUT	28	27	28	29	28	27	27	32	33	35	36.5	36														
	UN	28	27	28	29	28	27	27	32	33	35	36.5	36														
	U																										

SWEPT 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

GRAND BANAKA 11, 12x6xN 78,2x41																								TIME 75x5x	
HOUR	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	MEP	25	56	55	54	53	50	39	30	33	30	33	30	33	30	33	30	33	30	33	30	33	30	33	
	MEV	59	69	67	63	58	56	44	33	50	77	83	87	94	100	104	99	106	107	104	100	90	77	69	
	UO	50	50	56	48	44	43	50	77	83	87	94	100	104	99	106	107	104	100	90	77	69	68	60	
	U																								
h'F2	MEP	25	56	55	54	53	50	39	30	33	30	33	30	33	30	33	30	33	30	33	30	33	30	33	
	MEV	59	69	67	63	58	56	44	33	50	77	83	87	94	100	104	99	106	107	104	100	90	77	69	
	UO	50	50	56	48	44	43	50	77	83	87	94	100	104	99	106	107	104	100	90	77	69	68	60	
	U																								
h'F	MEP	225	270	260	240	250	260	2625	235	220	2105	206	205	205	212	210	220	230	240	235	2225	205	260	273	
	MEV	298	290	280	270	275	280	280	240	220	220	210	210	210	220	220	230	240	250	235	260	273	2725	270	
	UO	259	255	240	235	235	260	250	225	215	205	200	200	200	205	210	220	230	240	230	215	225	250	269	
	U																								
(M3000IF2	MEP	25	278	265	280	275	270	2975	325	315	3025	285	280	280	275	275	280	285	295	300	2925	275	270	270	
	MEV	295	290	290	290	285	290	290	320	310	305	290	290	290	285	285	290	300	310	300	290	275	270		
	UO	265	270	270	270	270	260	275	320	310	290	280	275	275	275	270	280	285	290	285	270	265	270		
	U																								
f6F1	MEP																								
	CNT																								
f6E	MEP																								
	CNT																								
h'E	MEP																								
	CNT																								
f6Es	MEP	21	185																						
	CNT	30	30	30	30	30	30	30	30	30	30	30	30	29	29	30	29	29	29	29	30	30	30	30	

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

TABLE 17

BAGUIO. P. I. (16.4N, 120.6E)

TIME 120.0E

[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

SEPTEMBER, 1960

TABLE 19

CONCEPCION, CHILE (36°6S, 73°0W)

TIME 75.0W

[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

SEPTEMBER, 1960

TABLE 10

A PAZ, BOLIVIA (16.55, 68.14)

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
f6 F2	MEQ	0	85	86	87	88	0	78	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
	CNT	20	22	22	18	19	17	18	23	22	19	17	18	17	18	17	21	22	20	16	13	10	10	14
	LO	96	92	85	75	65	60	60	67	116	130	140	140	135	130	120	124	120	108	108	93	88	91	95
	LO	80	77	66	60	52	47	46	86	115	111	107	105	98	90	90	90	90	80	80	81	85	85	
	MEQ	22	22	22	20	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
n' F2	MEQ	22	22	22	20	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	CNT	22	22	22	20	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	LO	220	210	210	220	220	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	LO	220	210	210	220	220	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	MEQ	220	220	220	230	260	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
n' F	MEQ	220	220	220	230	260	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
	CNT	220	220	220	230	260	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
	LO	220	220	220	230	260	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
	LO	220	220	220	230	260	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
	MEQ	220	220	220	230	260	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
(M3000)F2	MEQ	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	CNT	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	LO	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	LO	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	MEQ	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
f6 F1	MEQ	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	CNT	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	LO	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	LO	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	MEQ	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
f6 E	MEQ	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	CNT	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	LO	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	LO	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	MEQ	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
n' E	MEQ	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	CNT	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	LO	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	LO	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
	MEQ	310	3125	310	300	300	305	2925	315	3075	2825	270	250	2325	220	220	225	235	230	2325	225	215	250	260
f6 E4	MEQ	38	355	30	275																			
	CNT	22	22	20	20	21	19	20	23	23	22	11	18	17	16	18	17	73	59	47				
	LO	22	22	20	20	21	19	20	23	23	22	11	18	17	16	18	17	21	22	21	16	16	17	17
	LO	22	22	20	20	21	19	20	23	23	22	11	18	17	16	18	17	21	22	21	16	16	17	17
	MEQ	38	355	30	275																			

SWEEP 1.0 MC TO 25.0 MC $\therefore$ 13.5 SECONDS.

SEPTEMBER, 1960

TABLE 21

POINT BARROW, ALASKA (71.3N, 156.8W)

MO*OST 3W11

[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

AUGUST, 1960

TIME 15.0W

TABLE 22

REYKJAVIK, ICELAND (64.1N, 21.8W)																			
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
f _o F ₂	365	36	0.4	0.2	45	44	515	565	60	585	625	67	65	66	63	635	61	60	57
	2	1	1	3	4	11	10	12	15	18	18	17	20	21	27	26	29	28	23
	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340
h'F ₂	365	36	0.4	0.2	45	44	515	565	60	585	625	67	65	66	63	635	61	60	57
	2	1	1	3	4	11	10	12	15	18	18	17	20	21	27	26	29	28	23
	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340
h'F	365	36	0.4	0.2	45	44	515	565	60	585	625	67	65	66	63	635	61	60	57
	2	1	1	3	4	11	10	12	15	18	18	17	20	21	27	26	29	28	23
	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340
(M3000)F ₂	365	36	0.4	0.2	45	44	515	565	60	585	625	67	65	66	63	635	61	60	57
	2	1	1	3	4	11	10	12	15	18	18	17	20	21	27	26	29	28	23
	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340
f _o F ₁	365	36	0.4	0.2	45	44	515	565	60	585	625	67	65	66	63	635	61	60	57
	2	1	1	3	4	11	10	12	15	18	18	17	20	21	27	26	29	28	23
	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340
f _o E	365	36	0.4	0.2	45	44	515	565	60	585	625	67	65	66	63	635	61	60	57
	2	1	1	3	4	11	10	12	15	18	18	17	20	21	27	26	29	28	23
	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340
h'E	365	36	0.4	0.2	45	44	515	565	60	585	625	67	65	66	63	635	61	60	57
	2	1	1	3	4	11	10	12	15	18	18	17	20	21	27	26	29	28	23
	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340
f _o E _s	365	36	0.4	0.2	45	44	515	565	60	585	625	67	65	66	63	635	61	60	57
	2	1	1	3	4	11	10	12	15	18	18	17	20	21	27	26	29	28	23
	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340

SWEEP 1.0 MC TO 25.0 MC IN 16.2 SECONDS.

AUGUST, 1960

TABLE 21

GOOHAN, GREENLAND (69.3N, 53.5W)																			
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
f _o F ₂	45	40	36	32	28	24	20	16	12	8	4	0	0	0	0	0	0	0	0
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
h'F ₂	45	40	36	32	28	24	20	16	12	8	4	0	0	0	0	0	0	0	0
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
h'F	45	40	36	32	28	24	20	16	12	8	4	0	0	0	0	0	0	0	0
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
(M3000)F ₂	45	40	36	32	28	24	20	16	12	8	4	0	0	0	0	0	0	0	0
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
f _o F ₁	45	40	36	32	28	24	20	16	12	8	4	0	0	0	0	0	0	0	0
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
f _o E	45	40	36	32	28	24	20	16	12	8	4	0	0	0	0	0	0	0	0
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
h'E	45	40	36	32	28	24	20	16	12	8	4	0	0	0	0	0	0	0	0
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
f _o E _s	45	40	36	32	28	24	20	16	12	8	4	0	0	0	0	0	0	0	0
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS.

AUGUST, 1960

TABLE 24

GRAND BAHAMA, L. (26.6N, 78.2W)																			
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
f _o F ₂	31	625	62	56	53	50	57	70	78	79	80	84	88	91	895	89	85	835	79
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
h'F ₂	31	625	62	56	53	50	57	70	78	79	80	84	88	91	895	89	85	835	79
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
h'F	31	625	62	56	53	50	57	70	78	79	80	84	88	91	895	89	85	835	79
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
(M3000)F ₂	31	625	62	56	53	50	57	70	78	79	80	84	88	91	895	89	85	835	79
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
f _o F ₁	31	625	62	56	53	50	57	70	78	79	80	84	88	91	895	89	85	835	79
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
f _o E	31	625	62	56	53	50	57	70	78	79	80	84	88	91	895	89	85	835	79
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
h'E	31	625	62	56	53	50	57	70	78	79	80	84	88	91	895	89	85	835	79
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
f _o E _s	31	625	62	56	53	50	57	70	78	79	80	84	88	91	895	89	85	835	79
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

AUGUST, 1960

TABLE 23

NARSARSUAQ, GREENLAND (61.2N, 45.1W)																			
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
f _o F ₂	15	7	9	16	35	15	205	22	26	27	26	28	30	30	29	29	29	29	29
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
h'F ₂	15	7	9	16	35	15	205	22	26	27	26	28	30	30	29	29	29	29	29
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
h'F	15	7	9	16	35	15	205	22	26	27	26	28	30	30	29	29	29	29	29
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
(M3000)F ₂	15	7	9	16	35	15	205	22	26	27	26	28	30	30	29	29	29	29	29
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
f _o F ₁	15	7	9	16	35	15	205	22	26	27	26	28	30	30	29	29	29	29	29
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
f _o E	15	7	9	16	35	15	205	22	26	27	26	28	30	30	29	29	29	29	29
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
h'E	15	7	9	16	35	15	205	22	26	27	26	28	30	30	29	29	29	29	29
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
f _o E _s	15	7	9	16	35	15	205	22	26	27	26	28	30	30	29	29	29	29	29
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

TABLE 34

TUCUMAN, ARGENTINA (26°45', 65°44')

TIME 00-00

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
f _o F2	MED CNT UO	167 168 151	95 19 20	73 19 20	69 19 18	81 18 17	103 18 17	115 19 17	125 17 16	132 17 18	141 18 19	150 19 16	153 16 17	156 15 16	157 15 16	159 16 15	161 16 15	163 15 16	165 11 9	166 11 9	168 11 15	169 11 15	170 11 15	
h'F2	MED CNT UO																							
h'F	MED CNT UO	260 20 21	220 20 20	205 20 20	230 19 17	255 17 17	250 17 19	230 19 18	220 18 9	215 220 14	240 240 19	250 19 17	240 17 17	240 17 17	250 17 17	260 17 17	235 14	240 15	255 14	255 16	230 13	300 13	295 18	280 17
(M3000)F2	MED CNT UO	310 15 15	345 18 17	340 18 17	320 19 19	285 19 18	310 18 17	315 17 16	295 16 18	285 18 18	275 18 18	270 19	265 16	270 15	270 15	265 16	270 13	265 14	260 14	270 10	280 6	280 8	280 13	285 15
f _o F1	MED CNT																							
f _o E	MED CNT						120 1 15	200 15 15	275 7 1	330 1 1	490 1 1					330 1 5	290 5 2	270 1 5	280 9 8	280 1 3	280 1 3	280 13 15		
h'E	MED CNT						141 13	105 15	105 15	102 15	105 4 2		101 1	101 1	101 1	101 3	101 9	101 8	115 1					
f _o Ea	MED CNT																							

SWEET 1.0 MC TO 25.0 MC IN 30 SECONDS.

OCTOBER, 1959

TABLE 35

WILKES STATION (60°45', 110°56')

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
f _o F2	M3000	U	57	57	52	57	56	56	56	56	56	56	56	56	56	56	56	56	56	56	U	U	U	U	U
	h'F2	13	9	8	6	6	2	2	5	6	8	12	12	14	15	13	9	8	3	8	9	11	12	13	11
	h'F	220	225	220	220	210	210	215	210	220	240	240	240	260	270	280	265	255	240	260	260	260	250	235	230
(M3000)F2	M3000	U	15	9	12	8	4	3	5	11	13	15	16	14	15	18	16	16	13	12	18	18	19	17	21
	h'F2	13	9	8	6	5	2	2	4	6	7	11	11	13	15	12	7	7	3	8	7	10	10	13	
	h'F	240	245	230	240	235	240	225	250	250	265	280	270	270	270	280	280	270	270	280	280	275	250	255	
f _o F1	M3000	D	45	45	40	40	3	2	4	5	10	10	12	6	1	1									
	h'F1	16	10	10	8	8	3	2	4	5	10	10	12	6	1	1									
	f _o E	D	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
f _o E	M3000	D	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	h'E	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
	f _o Ea	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
h'E	M3000	105	105	100	105	100	105	105	105	105	110	105	105	105	105	110	115	120	110	105	105	110	105	110	105
	h'E	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
	f _o Ea	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	

SWEET 1.0 MC TO 25.0 MC IN 15 OR 30 SECONDS.

NOVEMBER, 1959

TABLE 36

TUCUMAN, ARGENTINA (26°45', 65°44')

TIME 00-00

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
f _o F2 MED CNT LO	158 159 129	167 166 126	127 126 90	91 89 28	73 68 29	63 58 29	65 60 29	99 95 27	123 120 28	135 132 27	163 160 29	146 143 29	149 146 30	150 149 29	151 150 30	157 156 29	157 156 29	163 160 29	155 154 28	154 153 20	184 180 20	163 160 20	25 25 25	
h'F2 MED CNT LO	240 235 230	235 230 210	230 228 20	220 217 28	210 207 28	240 235 29	260 255 29	280 275 29	245 240 29	230 225 29	240 235 29	220 215 29	220 215 29	230 225 29	240 235 29	230 225 29	240 235 29	245 240 29	265 260 29	305 300 29	300 295 29	260 255 29	250 245 29	245 240 29
h'F MED CNT LO	240 235 230	235 230 210	230 228 20	220 217 28	210 207 28	240 235 29	260 255 29	280 275 29	245 240 29	230 225 29	240 235 29	220 215 29	220 215 29	230 225 29	240 235 29	230 225 29	240 235 29	245 240 29	265 260 29	305 300 29	300 295 29	260 255 29	250 245 29	245 240 29
(M3000)F2 MED CNT LO	310 26 25	310 25 24	320 28 24	315 28 24	280 28 24	285 28 24	285 28 25	315 28 25	310 27 25	305 26 29	295 26 30	290 26 30	275 26 29	265 26 29	260 26 28	265 26 29	265 26 29	265 26 29	265 26 29	265 26 29	265 26 29	265 26 29	265 26 29	265 26 29
f _o F1 MED CNT																								
f _o E MED CNT																								
h'E MED CNT																								
f _o Ea MED CNT																								

SWEET 1.0 MC TO 25.0 MC IN 30 SECONDS.

SEPTEMBER, 1959

TABLE 37

CONCEPCION, CHILE (36°45', 73°04')

TIME 00-00

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
f _o F2	885	84	755	665	595	57	72	102	115	1265	132	133	136	137	135	134	130	130	125	1025	1005	92	92	905
h'F2	28	27	28	28	27	27	27	27	27	26	27	28	25	25	27	27	27	27	28	28	28	27	28	28
h'F	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
(M3000)F2	28	27	28	28	27	27	27	27	27	26	27	28	25	25	27	27	27	27	28	28	28	27	28	28
h'F	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
f _o F1	16	10	10	8	3	2	4	5	10	10	11	12	6	1	1									
f _o E																								
h'E	141	195	105	102	105	13	15	15	15	15	4	2												
f _o Ea																								

SWEET 1.0 MC TO 25.0 MC IN 13+5 SECONDS.

SEPTEMBER, 1959

TABLE 27

TUCUMÁN, ARGENTINA (26°45', 65°44')													TIME 60.00											
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
f6F2	MED CNT LO	110 30 29	98 27 26	88 26 27	76 23 24	60 24 21	50 23 24	40 21 24	105 23 22	117 22 16	125 16 21	143 21	141 24	144 26	142 24	143 26	144 26	152 26	147 26	140 27	139 23	143 27	143 26	132 26
n°F2	MED CNT LO																340 7							
n°F	MED CNT LO	215 29	235 27	237 28	235 28	235 23	260 18	260 27	235 26	227 20	230 12	210 11	200 10	210 10	203 4	210 9	225 17	250 26	243 26	256 28	243 30	256 28	253 28	215 26
IM3000IF2	MED CNT LO	315 26	305 25	310 24	320 24	330 19	290 21	305 22	320 20	310 15	310 21	300 23	295 25	275 23	275 26	275 26	290 25	300 26	290 25	285 26	285 23	295 26	305 23	305 25
f6F1	MED CNT																660 6	650 4	620 5					
f6E	MED CNT	110 1							195 18	290 17	320 3	360 1					330 1	360 1	280 1	180 7				
n°F	MED CNT								123 8	105 19	101 17	101 14	101 6	101 5	101 6	101 11	105 11	105 11	105 13	104 1				
f6Ea	MED CNT																							

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

AUGUST, 1959

TABLE 29

TUCUMÁN, ARGENTINA (26°45', 65°44')																								TIME 60.00			
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			
f6F2	MED CNT LO	93 85 76 71 29 29 29 29	63 47 42 57 28 30 29 30	102 119 132 133 26 28 30 28	137 137 141 145 29 30 30 29	146 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26	148 147 142 133 29 28 27 26			
n°F2	MED CNT LO	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14	240 250 255 4 14 14			
n°F	MED CNT LO	220 250 250 250 30 30 30 30	220 250 270 285 29 39 28 29	240 250 255 265 27 27 29 29	260 280 285 295 28 28 28 28	280 290 295 305 27 27 27 27	290 300 305 315 26 26 26 26	300 310 315 325 25 25 25 25	310 320 325 335 24 24 24 24	320 330 335 345 23 23 23 23	330 340 345 355 22 22 22 22	340 350 355 365 21 21 21 21	350 360 365 375 20 20 20 20	360 370 375 385 19 19 19 19	370 380 385 395 18 18 18 18	380 390 395 405 17 17 17 17	390 400 405 415 16 16 16 16	400 410 415 425 15 15 15 15	410 420 425 435 14 14 14 14	420 430 435 445 13 13 13 13	430 440 445 455 12 12 12 12	440 450 455 465 11 11 11 11	450 460 465 475 10 10 10 10	460 470 475 485 9 9 9 9			
IM3000IF2	MED CNT LO	300 295 300 315 28 27 26 28	310 295 290 295 25 30 27 29	340 335 325 315 26 27 28 27	300 295 290 285 29 29 30 29	295 300 305 295 28 27 27 25	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28	290 300 310 320 27 25 27 28			
f6FI	MED CNT																										
f6E	MED CNT																										
n°F	MED CNT																										
f6Ea	MED CNT																										

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

JULY, 1959

TABLE 30
SAO PAULO, BRAZIL (23°55', 46°54')

SAO PAULO, BRAZIL (23°55' + 46°54')																								TIME 45.00			
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			
f6F2	MED CNT LO	92 82 76 66 106 94 88 81 78 74 62 51	50 45 40 71 60 55 52 76 42 38 34	132 136 136 130 129 29 29 30 106 125 136 136	132 136 136 130 29 30 30 29 136 140 140 144	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132	132 136 136 130 29 30 30 29 127 130 132			
n°F2	MED CNT LO	215 225 230 230 31 31 31 31	225 260 260 255 27 30 28 29	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27	240 230 220 210 30 30 30 27			
n°F	MED CNT LO	300 300 305 320 31 31 31 27	285 275 270 305 29 29 28 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29	320 310 310 295 29 29 29 29			
f6FI	MED CNT																										
f6E	MED CNT																										
n°F	MED CNT																										
f6Ea	MED CNT																										

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

JULY, 1959

TABLE 40

WILKES STATION 166°35', 110°56'1																							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		
f6F2	MED CNT LO	3 4 5 8 U	5 8 5 6 U	6 0 81 U	7 6 2 3 U	1 1 1 3 U																				
h'F2	MED CNT LO																									
h'F	MED CNT LO	2 4 0 2 4 0 5 7 1 4 12	2 4 5 2 6 5 11 10 4	2 5 0 2 5 5 12 15 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11	2 6 0 2 7 0 11 11 11		
IM3000F2	MED CNT LO	3 3 3 3	4 4 2 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	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 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 1 1	1 1 1 1	1 1 1 1		
f6F1	MED CNT LO																									
f6E	MED CNT LO	2	2	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3		
h'E	MED CNT LO	2	1 4	2	1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3	1 1 1 3		
f6E4	MED CNT LO	15 17 19 19	18 17 18 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16	18 16 16 16		

TABLE 42

TUCUMAN, ARGENTINA (26.05.65.4W)

TIME 60.0M

[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

JUNE, 1959

TABLE 41

CONFESSION: GERMANY (1933-1945)

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
f6F2	MEQ	77	72	72	70	70	78	80	86	89	88	87	84	81	84	82	89	89	80	83	82	82	84	82	78
	CNT	30	28	29	28	30	30	26	28	30	28	27	26	29	27	29	30	30	30	30	30	30	30	30	28
	U	82	79	76	73	77	84	69	93	93	94	92	90	80	86	84	83	85	86	86	87	85	84		
	LO	67	66	61	60	64	65	67	60	78	76	77	70	72	70	69	70	68	71	72	71	75	74	71	
h'F2	MEQ	360			360	338	320	395	355	355	400	370	410	425	400	385	350	380	362	328	290				
	CNT	1			1	2	5	12	16	21	24	27	28	26	27	32	25	17	12	4	1				
	U																								
	LO																								
h'F	MEQ	308	291	300	302	280	245	240	232	222	220	214	220	222	226	225	226	230	24	275	275	276	280	288	
	CNT	29	28	29	27	29	29	25	18	20	19	20	26	21	24	23	22	22	18	19	28	26	27	29	
	U																								
	LO																								
(M3000)F2	MEQ	243	251	250	252	264	272	271	272	267	266	259	260	256	262	265	265	271	276	275	280	268	259	253	
	CNT	28	29	28	28	30	30	30	28	27	30	28	29	28	26	29	29	25	30	29	29	29	29	29	
	U	262	258	258	255	272	278	278	281	279	276	274	269	265	273	273	276	280	283	286	274	267	256	255	
	LO	244	244	243	249	256	261	262	261	253	253	250	246	248	248	254	255	262	263	260	271	261	254	246	
f6F1	MEQ	310	410	478	515	340	550	565	570	570	570	560	540	525	480										
	CNT	1	1	1	1	15	19	24	23	21	20	20	18	12	8										
	U																								
	LO																								
f6E	MEQ	480	255	300	340	355	375	360	390	390	390	375	360	335	305	340	165								
	CNT	1	24	27	29	29	28	28	22	22	24	24	23	24	23	15									
	U																								
	LO																								
h'E	MEQ	121	109	104	103	101	101	102	101	101	101	101	101	101	101	101	101	103	105	109	125				
	CNT	1	19	25	26	25	26	28	27	29	26	27	22	26	27	22	26	27	26	27	17				
	U																								
	LO																								
f6E4	MEQ	19	18	18	18	26	32	38	44	46	48	46	46	46	46	44	44	45	41	46	42	33	32	28	
	CNT	30	30	30	29	30	30	30	30	30	30	30	30	30	30	30	29	30	29	30	30	30	30	30	
	U																								
	LO																								

SWEEP 1.25 MC TO 20.0 MC IN 3 MINUTES.

JUNE, 1959

TABLE 43

THREE STATION (66.8°-110.5E)

TIME

[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 15 OR 30 SECONDS

MAY 1960

TABLE 44

REIBURG, GERMANY (48.1N, 7.6E)

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
f6F2	MEQ	75	71	67	63	66	73	76	83	86	93	88	92	96	93	84	92	91	93	92	91	86	92	78	76
	CNT	28	28	29	30	29	30	31	30	30	30	30	30	30	31	28	29	29	25	26	28	26	28	29	
	U	78	76	72	69	71	80	88	95	96	97	88	100	102	103	102	100	99	100	98	91	86	92	80	
	LO	70	67	62	58	60	62	67	65	72	77	82	84	85	87	86	84	84	86	83	60	77	74	72	
h'F2	MEQ	395	370	400	335	405	395	378	398	385	375	375	355	350	322	300									
	CNT	1	4	6	9	13	12	18	18	24	23	20	11	6	4	2									
	LO																								
h'F	MEQ	510	510	305	300	300	250	240	232	222	230	210	215	228	224	230	232	238	252	260	262	260	255	300	
	CNT	30	30	30	30	29	29	29	29	25	21	21	22	22	24	23	26	22	21	25	28	28	29	30	
	U																								
	LO																								
IM300F2	MEQ	246	246	249	248	259	278	274	282	267	264	266	264	284	266	267	269	273	277	279	282	266	260	255	352
	CNT	28	27	28	29	29	29	30	29	30	29	28	29	30	28	29	29	29	29	25	26	28	26	28	
	U	254	258	257	260	274	284	285	287	283	275	275	270	272	271	270	274	278	284	288	266	260	251	260	
	LO	240	231	236	235	244	252	251	250	234	235	234	232	252	240	242	244	248	272	274	275	263	253	240	
f6F1	MEQ	310	395	458	500	310	360	560	580	595	505	500	560	515	470										
	CNT	1	7	6	7	9	9	315	18	23	20	16													
	LO																								
f6E	MEQ	145	235	280	310	350	370	380	390	392	385	375	360	328	285	235	140								
	CNT	12	23	30	30	28	28	25	23	26	24	20	24	26	24	16	5								
	LO																								
h'E	MEQ	99	115	107	103	103	103	103	102	101	103	103	103	105	108	115									
	CNT	22	27	29	29	29	27	24	22	21	26	27	27	28	26	23	14								
	LO																								
f6E4	MEQ	18	25	33	37	40	43	41	41	42	42	41	43	40	38	30	29	19	19	18					
	CNT	30	30	30	30	29	30	29	31	30	29	31	28	29	29	26	29	29	29	26	29	28	29	30	
	LO																								

SWEEP 1.25 MC TO 20.0 MC IN 3 MINUTES.

MAY. 1959

TABLE 46

FREIBURG, GERMANY (48.1N, 7.4E)

TIME 0-00

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
f6F2	71	68	65	59	59	62	70	78	84	96	102	108	109	109	105	104	104	102	101	91	84	79	77	72
MED	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
CNT	27	30	30	29	29	28	27	30	25	26	24	25	26	24	27	28	29	30	29	30	30	30	30	30
UO	76	70	69	64	62	68	81	96	103	112	116	124	120	120	114	110	111	110	104	98	90	86	82	78
LO	65	62	58	54	54	56	62	67	74	84	92	99	102	98	100	98	96	98	95	86	76	72	68	68
nF2																								
MED	450	400	465	400	445	412	420	398	415	380	325													
CNT	1	3	6	9	10	10	11	6	5	4	1													
UO																								
LO																								
nF																								
MED	305	305	300	300	295	265	240	210	225	220	220	220	225	222	230	232	240	250	250	245	255	270	295	305
CNT	27	30	30	29	29	28	27	30	25	26	24	25	26	24	27	28	29	30	29	30	30	30	30	30
UO																								
LO																								
(M3000)F2																								
MED	248	246	246	247	250	274	280	284	272	275	270	268	266	265	267	267	272	278	284	274	266	252	250	247
CNT	26	29	30	29	29	28	27	30	28	27	27	29	28	29	29	30	30	30	28	29	29	29	29	29
UO	253	256	256	252	260	284	293	293	286	280	275	274	272	271	276	274	280	282	287	281	274	262	258	255
LO	235	238	238	231	240	268	275	269	261	265	257	252	250	253	250	250	255	260	275	270	270	270	270	271
f6F1																								
MED	435	400	515	545	560	580	510																	
CNT	1	3	7	9	8	9	5	3																
UO																								
LO																								
f6E																								
MED	110	165	255	302	335	358	375	382	385	380	365	342	385	370	360	185								
CNT	1	22	24	30	27	26	24	26	23	21	24	28	27	27	14									
UO																								
LO																								
nF																								
MED	123	111	107	103	103	103	103	103	103	103	103	105	107	111	128									
CNT	1	23	26	29	25	22	26	23	25	23	28	25	18	16	8									
UO																								
LO																								
f6Ea																								
MED	38	38	40	39	38	38	40	39	38	38	40	39	38	38	40	39	38	38	40	39	38	38	38	38
CNT	27	30	30	29	29	28	27	30	27	28	28	29	28	29	30	30	30	30	29	30	30	30	30	30
UO																								
LO																								

APRIL, 1959

SWEEP 1.25 MC TO 20.0 MC IN 3 MINUTES.

TABLE 48

TSUMBA, SOUTH W. AFRICA (19.25S, 17.7E)

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
f6F2	654	541	521	457	38	335	433	500	5163	1383	1363	1375	1378	1402	1407	1382	1366	1331	129	1175	1060	1025	922	771
MED	28	29	28	29	30	30	30	28	28	28	28	28	29	27	28	29	28	30	28	26	26	28	28	27
CNT																								
UO																								
LO																								
nF2																								
MED	290																							
CNT	1																							
UO																								
LO																								
nF																								
MED	248	247	250	230	235	255	253	230	225	220	215	215	217	222	229	230	240	248	235	227	230	238	230	236
CNT	30	29	27	25	23	25	28	29	28	26	28	28	29	26	26	26	28	29	27	22	27	28	27	28
UO																								
LO																								
(M3000)F2																								
MED	282	290	294	300	308	282	281	328	307	294	288	277	268	266	264	264	266	273	282	286	285	290	296	281
CNT	27	27	27	28	29	29	29	28	28	27	28	28	29	25	28	28	28	28	29	27	26	26	28	27
UO																								
LO																								
f6F1																								
MED	640																							
CNT	1																							
UO																								
LO																								
f6E																								
MED	167	261	325	360	385	400			405	395	381	357	317	227										
CNT	13	29	28	27	28	27			27	24	26	20	9											
UO																								
LO																								
nF																								
MED	120	110	105	105	102	108			107	108	108	112	117											
CNT	5	18	12	5	1	1			2	2	2	1												
UO																								
LO																								
f6Ea																								
MED	32	36	35	38	36	35			38	36	37	36	38	32	33	18								
CNT	28	27	28	29	30	29	28	28	27	28	29	29	29	29	30	28	29	30	28	25	29	29	28	28
UO																								
LO																								

APRIL, 1959

SWEEP 1.0 MC TO 16.0 MC IN 4 MINUTES.

TABLE 45

TUCUMAN, ARGENTINA (26.95S, 65.4W)

TIME 00-00

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	
f6F2	MED CNT LO	128 26 25	115 25 27	107 27 27	73 28 26	54 29 24	40 24 27	33 27 24	63 29 22	110 22 25	130 25 25	138 26 26	140 26 24	147 26 24	150 23 23	154 23 23	155 23 23	155 23 23	153 21 21	140 21 24	142 25 26	147 26 26	143 26 26	136 25 20	
f6F2	MED CNT LO	220 27 28	225 28 28	225 28 27	215 28 27	225 29 26	260 21 24	260 29 28	235 25 28	225 25 25	220 22 22	225 25 25	225 19 15	220 11 13	210 13 13	230 17 17	230 28 27	255 27 24	250 24 27	230 26 29	225 30 26	220 29 25	220 29 25	220 29 25	
f6F2	MED CNT LO	300 25 25	310 25 26	315 26 25	320 26 25	345 26 26	300 28 23	295 23 26	300 26 22	315 25 22	315 24 25	310 24 24	295 24 25	275 25 25	265 20 20	260 19 18	245 22 22	240 21 21	240 17 17	240 19 19	250 20 23	300 29 26	305 29 26	305 29 26	
f6F1	MED CNT																								
f6E	MED CNT							115 18	225 20	310 20	330 22	360 21				380 1	220 1	195 2							
f6E	MED CNT							105 14	109 6	105 12	101 4	101 4	101 3	101 4	101 3	105 6	105 8	105 6							
f6E	MED CNT	27	28	28	28	28	30	26	29	28	28	25	24	25	25	24	26	28	27	24	18	28	26	29	25

TABLE 50

WILKES STATION (66-9S, 110-5E)

TIME 0.0

[illegible]

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

6561 1959

TABLE 52

BUENOS AIRES, ARGENTINA (34.5S, 58.5W)

IME 60.0W

[illegible]

SWEEP 1 0 M TO 25.0 W IN 1.5 SECONDS.

OBER. 1958

TABLE 49

100

	HOUR	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 UO LO	156 23	165 22	135 20	114 20	72 24	48 25	76 24	25	115 25	132 22	140 23	146 22	153 21	153 23	143 21	135 21	155 23	165 19	165 15	170 17	165 15	157 9	157 13	160 24
h'F2	MED CNT UO LO									U	360 1	390 4	425 14	410 13	375 13	U	U	U	U	U	U	U	U	U	U
h'F	MED CNT UO LO	230 24	225 24	220 24	215 25	200 34	230 22	250 22	255 25	230 24	220 22	220 19	220 12	205 11	225 11	230 15	230 18	230 16	235 23	250 24	265 24	290 24	275 25	240 24	230 25
IM3000/F2	MED CNT UO LO	300 18	310 20	310 19	335 20	360 21	295 25	280 23	300 24	315 24	310 23	295 21	285 21	260 21	240 21	255 20	260 18	265 16	265 19	265 15	265 13	265 8	265 5	275 13	290 18
f6F1	MED CNT									U	360 1	U	U	U	U	U	U	U	U	U	U	U	U	U	U
f6E	MED CNT									110 14	100 12	300 11	U	360 1	U	U	U	U	U	U	U	U	U	U	U
h'E	MED CNT									U	121 5	101 3	99 3	99 4	101 3	105 1	121 6	121 7	121 11	121 7	121 2	121 1	121 5	121 13	121 21
f6E4	MED CNT	25	24	24	25	25	25	25	25	25	25	24	23	25	26	26	26	25	27	27	27	27	27	28	28

WEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

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15 FEB 51

ENCLOSURE - COA OF THE

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	HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f2F2	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	107	145	134	110	120	86	71	89	55	56	85	117	136	136	126	127	132	139	137	138	140	139	140	140
	HI	160	159	166	160	121	189	74	16	17	3	21	22	22	21	21	22	14	14	14	14	14	14	14	14
f2F2	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	120	131	128	125	106	85	61	54	48	43	72	107	130	128	120	124	138	159	127	130	128	130	130	132
	HI	160	159	166	160	121	189	74	16	17	3	21	22	22	21	21	22	14	14	14	14	14	14	14	14
f2F2	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	120	131	128	125	106	85	61	54	48	43	72	107	130	128	120	124	138	159	127	130	128	130	130	132
	HI	160	159	166	160	121	189	74	16	17	3	21	22	22	21	21	22	14	14	14	14	14	14	14	14
f2F1	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250	250	245	255	290	300
	HI	400	360	350	340	320	320	310	305	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
f2E	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	LO	290	250	245	240	220	220	210	245	250	250	250	250	240	240	240	245	240	250	250					

WFFD 1.4 MC TO 20.0 MC IN 4.0 SECONDS.

NOV 1 1960

TABLE 54

BUDAPEST, HUNGARY (47.4N, 19.2E)

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f _o F2	MED	65	65	62	58	56	66	93	117	134	136	136	135	135	134	133	130	117	104	93	83	73	68	66	66
	CNT	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	30	31	31	31	31
	UO																								
	LO																								
n'F2	MED													1	1										
	CNT																								
	UO																								
	LO																								
n'F	MED	315	310	305	300	290	265	245	240	235	230	235	230	235	240	250	250	255	265	260	270	290	300	310	310
	CNT	29	31	30	31	31	31	31	30	31	30	30	29	30	30	28	31	30	29	28	29	31	31	31	31
	UO																								
	LO																								
(M3000)F2	MED																								
	CNT																								
	UO																								
	LO																								
f _o F1	MED													1	1										
	CNT																								
f _o E	MED																								
	CNT																								
n'E	MED																								
	CNT																								
f _o Ea	MED	27	32	28																					
	CNT	5	7	6	4	2	1	8	20	24	22	20	14	13	14	12	9	8	8	5	2	2	2	2	1

SWEEP 1.0 MC TO 20.0 MC IN 35 SECONDS.

OCTOBER, 1958

TABLE 53

ALERT, CANADA (82.6N, 62.6W)

hour	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f _o F2	MED CNT UO LO	70 27 27 27	69 28 28 28	70 28 28 28	74 28 28 28	76 28 28 28	76 28 28 28	76 28 28 28	76 28 28 28	76 28 28 28	76 28 28 28	76 28 28 28	94 83 28 28	95 85 29 27	86 76 29 27	86 76 29 27	86 76 29 27	86 76 29 27	86 76 29 27	86 76 29 27	86 76 29 27	86 76 29 27	86 76 29 27	86 76 29 27
f _o F1	MED CNT UO LO																							
f _o F	MED CNT UO LO	290 28 27 27	280 28 28 28	280 28 28 28	280 28 28 28	280 28 28 28	280 28 28 28	280 28 28 28	280 28 28 28	280 28 28 28	280 28 28 28	280 28 28 28	260 27 26 25	280 27 26 25	260 27 26 25	260 27 25 27	260 28 26 28	280 28 26 28	280 28 26 28	280 28 26 28	280 28 26 28	280 28 26 28	280 28 26 28	280 28 26 28
(M3000)F2	MED CNT UO LO																							
f _o F1	MED CNT																							
f _o E	MED CNT																							
f _o E	MED CNT																							
f _o E	MED CNT																							
f _o E	MED CNT																							
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f _o E	MED CNT																							
f _o E	MED CNT																							
f _o E	MED CNT																							
f _o E	MED CNT																							

SWEEP 1.0 MC TO 20.0 MC IN 15 SECONDS.

OCTOBER, 1958

TABLE 55

PARAMARIBO, SURINAM (5.8N, 55.2W)

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
f _o F2	MED CNT UO LO	166 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160	160 130 160 160
f _o F1	MED CNT UO LO																							
f _o F	MED CNT UO LO	275 30 31 31	245 31 31 31	240 31 31 31	220 31 31 31	225 31 31 31	240 31 31 31	265 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31	250 31 31 31
(M3000)F2	MED CNT UO LO	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270	265 245 275 270
f _o F1	MED CNT																							
f _o E	MED CNT																							
f _o E	MED CNT																							
f _o E	MED CNT																							
f _o E	MED CNT																							
f _o E	MED CNT																							

SWEEP 1.4 MC TO 20.0 MC IN 40 SECONDS.

OCTOBER, 1958

TABLE 56

BUENOS AIRES, ARGENTINA (34.5S, 58.5W)

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f _o F2	MED CNT UO LO	124 28 27 27	113 27 27 27	97 27 27 27	86 27 27 27	90 27 27 27	107 27 27 27	117 27 27 27	128 27 27 27	132 27 27 27	141 27 27 27	147 27 27 27	148 27 27 27	148 27 27 27	149 27 27 27	149 27 27 27	148 27 27 27	147 27 27 27	140 27 27 27	136 27 27 27	137 27 27 27	135 27 27 27	132 27 27 27	132 27 27 27
f _o F2	MED CNT UO LO										U 385 4	420 16 23	430 23	410 27	405 27	380 14	360 3	360 2						
f _o F	MED CNT UO LO	300 31 30 30	290 31 30 30	280 27 27 27	270 27 27 27	260 27 27 27	245 27 27 27	240 27 27 27	240 27 27 27	240 27 27 27	240 27 27 27	240 27 27 27	250 250 250	250 6	250 5	260 6	260 15	270 11	290 18	315 29	330 30	340 30	320 30	310 31
(M3000)F2	MED CNT UO LO	270 28 27 27	270 27 27 27	260 27 27 27	260 27 27 27	260 27 27 27	265 27 27 27	275 27 27 27	275 27 27 27	275 27 27 27	260 27 27 27	260 27 27 27	260 260 260	265 29	265 30	265 31	265 28	260 30	260 29	265 29	265 22	265 23	255 25	260 28
f _o F1	MED CNT								U 860 1				780 4	680 1	740 3	710 3								
f _o E	MED CNT					U 180 14	275 1																	
f _o E	MED CNT					U 181 7	110 1																	
f _o E1	MED CNT																							

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

OCTOBER, 1958

TABLE 57

BUDAPEST, HUNGARY (47.4N, 19.2E)

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
f6F2	MED CNT UD LO	38 23 21	53 22 22	59 22 22	65 22 22	70 21	85 21	91 21	97 22	103 22	110 21	106 22	106 21	106 21	106 21	100 21	98 22	95 22	92 22	83 19					
n'F2	MED CNT UD LO							3	2	7	4	7	10	375	8	11	7	1							
n'F	MED CNT UD LO	335 21	335 20	335 22	315 22	300 22	265 21	250 21	245 22	235 21	235 20	235 21	19 20	21 19	235 19	240 21	250 20	260 21	270 20	275 19	280 20	295 21	320 19	335 21	355 22
BA30001F2	MED CNT UD LO																								
f6F1	MED CNT							3	2	7	4	7	9	8	11	7	1								
f6E	MED CNT						230 31	260 19	320 22	350 22	370 18	370 16	370 18	360 16	360 17	360 20	280 18	260 17							
n'E	MED CNT						135 12	125 19	120 22	120 22	120 18	120 16	120 16	120 16	120 17	125 20	125 18	125 16	130 17	3					
f6Ea	MED CNT	5	6	10	4	25	31	31	41	49	43	44	47	46	43	44	40	45	28	35	36	38	39	39	4

SWEEP 1.0 MC TO 20.0 MC IN 35 SECONDS.

SEPTEMBER, 1958

TABLE 59

ALERT, CANADA 182.6N, 62.6W)

TIME 75.0W

[illegible]

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

AUGUST, 1958

TABLE 58

BUENOS AIRES, ARGENTINA (34.5S, 58.5W)

TIME 60.0W

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f ₀ F2																								
MED	128	119	115	93	68	62	79	105	125	131	137	140	160	140	140	140	142	146	145	140	155	150	146	130
CNT	25	24	23	27	26	26	28	27	28	27	28	28	29	29	29	29	26	26	24	24	21	22	14	27
U ₀																								
L ₀																								
n'F2																								
MED													330	360	395	380	365	342						
CNT												3	6	5	5	13	7	2						
U ₀																								
L ₀																								
n'F																								
MED	280	270	250	225	225	280	270	240	240	240	240	240	240	250	248	245	255	260	278	300	295	288	275	278
CNT	30	30	30	29	29	26	30	30	28	25	20	15	18	16	20	19	24	28	28	30	30	30	29	30
U ₀																								
L ₀																								
(M3000)F2																								
MED	280	280	300	305	260	250	280	300	295	280	270	285	260	250	250	255	260	260	265	260	260	260	270	270
CNT	21	23	21	26	27	27	28	28	28	27	28	27	29	28	28	29	26	25	21	15	15	15	13	19
U ₀																								
L ₀																								
f ₀ F1																								
MED																								
CNT																								
U ₀																								
L ₀																								
f ₀ E																								
MED																								
CNT																								
U ₀																								
L ₀																								
n'E									119	111							122	121						
MED									1								2	1						
CNT										3														
U ₀																								
L ₀																								
f ₀ Ea																								
MED																								
CNT																								
U ₀																								
L ₀																								

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

SEPTEMBER, 1958

TABLE 60

HALLEY BAY (75.55, 26.6W)

TIME 30.0W

[illegible]

SLEEP 0.65 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

AUGUST, 1958

TABLE 62

VALLEY BAY (75.5S, 26.6W)

[illegible]

TABLE 64

REGISTRATION 1-148-65, 70-351

	HOUR	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	MEQ CNT UO LO	26 16 22 4	16 22 5	22 5	22 5	24 8	23 9	26 7	30 8	U	50 78	90 90	105 105	121 131	133 133	130 130	117 117	92 92	62 62	46 46	19 19	13 13	7 7	5 5	3 3
h'F2	MEQ CNT UO LO																								
h'F	MEQ CNT UO LO	310 10	310 6	312 8	340 9	332 10	340 10	350 10	310 8	272 16	245 21	245 21	245 21	245 21	245 23	250 23	250 24	240 19	230 22	230 15	240 15	245 15	250 13	265 8	298 8
(M300)F2	MEQ CNT UO LO	U 250	U 260	U 275	U 280	U 250	U 255	U 270	U 268	U 292	U 308	U 300	U 290	U 285	U 285	U 295	U 290	U 290	U 268	U 295	U 312	U 310	U 280	U 262	U 252
f6F1	MEQ CNT																								
f6E	MEQ CNT									155 6	240 9	268 8	300 11	290 11	280 5	250 6	205 7	135 1	125 1				130 1		
h'E	MEQ CNT									136 5	135 5	130 8	126 9	125 10	125 6	130 6	160 1	170 1	150 1				156 1	156 1	156 1
f6Eh	MEQ CNT	16 14	34 17	39 14	39 16	15 12	16 15	15 13	17 7	10 10	26 10	30 11	31 12	28 11	28 10	28 10	21 5	24 8	26 5	15 6	0 9	20 6	14 3	30 11	15 15

TABLE 61

UNIVERSITY OF CALIFORNIA LIBRARY

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	TIME DAY
f6F2	MEO CNT	68	65	62	60	65	74	77	77	77	81	83	87	92	91	79	78	79	79	77	U	U	U	U	U	23
	LQ	24	29	30	30	29	26	26	26	26	26	27	27	23	23	30	30	28	29	27	21	23	25	26	26	26
h'f2	MEO CNT					400	375	375	400	425	440	450	435	430	430	410	400	370	345							
	LQ				2	5	10	19	19	21	22	25	25	23	25	26	26	16	6							
n'F	MEO CNT	325	320	320	310	275	260	245	235	230	230	225	225	225	235	235	245	250	270	290	290	315	320	325	330	330
	LQ	24	26	30	29	20	25	23	19	21	19	17	22	23	22	27	22	19	19	22	22	19	23	25	28	28
IM3000IF2	MEO CNT																									
	LQ																									
f6F1	MEO CNT					420	480	520	530	560	600	600	590	580	580	570	530	520	410							
	LQ				2	5	9	19	18	22	22	24	25	24	24	25	25	15								
f6E	MEO CNT					190	230	280	320	340	370	380	380	380	380	360	340	300	260							
	LQ					27	27	27	26	27	27	25	22	22	27	28	20	21	22	2						
n'E	MEO CNT					125	130	125	120	115	115	115	115	120	125	120	120	130								
	LQ					27	27	29	27	27	24	24	23	22	27	28	26	27	22	2						
f6Ex	MEO CNT	27	33	30	27	37	40	48	50	55	53	55	54	48	44	47	50	47	43	44	38	40	48	37	32	32
	LQ	9	10	10	10	18	23	24	28	25	25	25	21	20	17	21	24	26	22	18	22	14	13	11	11	11

TABLE 63

BUDAPEST, HUNGARY (47.6N, 19.2E)

BUDAPEST • HUNGARY (47.4N • 19.2E)																								TIME OF	
HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
16F2	MEQ CNT LO	75 15 23	67 23 21	68 21 20	76 24 21	77 24 20	86 21 20	90 20 19	90 21 22	87 22 22	87 22 22	95 22 22	95 22 22	95 22 22	95 22 22	95 22 22	95 22 22	95 22 22	95 22 22	95 22 22	95 22 22	95 22 22	95 22 22	95 22 22	
17F2	MEQ CNT LO	460 2	400 6	405 9	405 14	405 11	430 14	430 17	425 20	430 22	445 16	425 16	415 19	400 19	360 11	2									
17F	MEQ CNT LO	340 15	340 21	325 21	315 18	275 18	265 18	275 10	225 9	235 14	220 16	230 18	245 13	255 16	275 10	285 12	300 15	285 12	300 15	285 12	300 15	320 18	330 22	335 22	
183000F2	MEQ CNT LO																								
16F1	MEQ CNT	2				490 6	520 10	540 12	580 9	600 16	600 17	600 21	610 12	610 20	570 15	540 17	500 11	2							
16E	MEQ CNT	1	250 15	300 15	330 19	350 19	360 22	370 17	370 17	370 16	390 9	380 16	370 14	340 19	320 16	270 16									
17E	MEQ CNT	1	130 13	120 15	120 19	120 18	120 18	115 23	115 17	120 16	120 15	120 16	120 16	120 16	120 16	120 16	120 16	120 16	120 16	120 16	120 16	120 16	120 16	120 16	
16Ea	MEQ CNT	45 6	36 9	33 11	44 16	48 21	54 23	58 23	58 20	50 18	53 16	47 16	48 16	47 16	45 16	45 16	47 16	45 16	48 16	45 16	48 16	45 16	48 16	45 16	

TABLE 65

TERRE ADELIE (66.7S, 140.0E)

[illegible]

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE.

JUNE • 1958

TABLE 67

HARRISON [C. 146-AS, 17-9E]

[illegible]

SWEEP 1.6 MC TO 19.0 MC IN 1A SECONDS.

MAY - 1960

TABLE 66

BUDAPEST, HUNGARY (47.4N, 19.2E)

	hour	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	MED CNT UQ LD	72 29	66 29	67 31	68 30	72 31	79 31	82 31	83 30	86 30	92 29	93 30	98 30	98 31	98 29	95 30	95 29	92 30	88 29	85 29	82 29	69 26	66 29	68 29	68
n'f2	MED CNT UQ LD				3	4	470	430	445	435	420	430	420	430	430	405	385	360							
n'F	MED CNT UQ LD	325 27	330 26	320 28	310 29	280 27	255 27	250 25	240 22	235 22	225 25	230 27	230 28	235 27	240 25	245 28	250 25	260	280	290	290	305	330	340	355
IM3000IF2	MED CNT UQ LD																								
f6FI	MED CNT					3	3	530	570	620	610	630	635	630	620	600	560								
f6E	MED CNT						1	17	25	29	28	27	27	26	29	27	29	28	27	17	2				
n'E	MED CNT																								
f6Ex	MED CNT	36 8	37 7	28 6	30 11	30 17	40 22	48 25	51 22	52 23	52 23	52 26	45 26	45 29	45 26	43 29	46 27	43 29	40 27	38 27	42 27	40 24	41 25	40 19	35

Sweep 1.0 MC TO 20.0 MC IN 35 SECONDS.

MAY. 1958

TABLE 68

K. ERGUELEN T. (49.45. 70.3E)

	HOUR	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 UO LO	23 15	26 16	28 14	30 18	26 20	27 20	28 23	U 23	U 28	U 28	10 ^a 11	11 ^b 16	D 0	0	0	0	0	U 110	68 75	50 55	20 25	15 19	11	5
h'F2	MED CMT LO								1																
h'F	MED UO LO	280 22	300 24	310 26	330 27	350 25	345 24	335 20	302 26	252 26	250 26	250 25	248 28	245 27	245 27	248 28	250 27	240 25	240 27	245 28	230 29	238 28	250 18	275 23	270 22
(M3COOF2)	MED CMT LO	260 14	U ₅₅ 15	258 12	230 15	240 15	325 15	U ₅₅ 15	258 15	U ₅₅ 18	285 15	300 11	292 11	U ₅₅ 6	295 3	255 3	270 3	270 1	U ₅₅ 2	278 4	295 10	300 18	285 16	15 11	10 14
f6FI	MED CMT								U 340	490 1															
f6E	MED CMT	U ₁₂ 14	U ₁₀ 9	U ₁₀ 1	U ₁₅ 2	U ₁₅ 1	E 1	E 1	E 17	200 21	252 20	295 21	310 21	330 20	330 24	300 23	270 21	230 20	E 14	E 7	U 130	108 155	U 106	U 135	U 152
h'E	MED CMT	U ₅ 5	U ₅ 2	U ₅ 2	U ₅ 2	U ₅ 2	E 1	E 1	E 13	130 10	130 15	125 16	125 19	125 16	125 13	125 16	125 17	140 17	E 12	E 7	U 170	160 155	U 160	U 155	U 143
f6A	MED CMT	15 22	15 22	16 22	16 22	14 18	14 18	15 19	12 18	16 21	16 21	14 16	15 16	14 16	14 17	14 16	14 16	15 21	16 17	15 18	15 17	15 12	14 19	16 20	15 20

SWEEP 0.00 MC TO 14.14 MC IN 10 MINUTES. AUTOMATIC OPERATION.

MAY - 1958

TABLE 73

BUENOS AIRES, ARGENTINA (34.5S, 58.5W)

TIME 60.0W

[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

MARCH, 1958

TABLE 74

MARION I. 146.0S. 37.9E)

TIME 0.0

	NGR	50	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 CNT UO LO				36 72 1 1				0 71 1	U 118 1	U 121 1	U 134 1	U 146 1	U 155 7	U 161 5	U 181 5	U 190 6	U 207 4	U 215 2	U 230 4	U 246 2	U 260 1	U 275 6	U 285 1	U 300 1
n' F2	MED CNT UO LO																								
n' F	MED CNT UO LO					245 1								215 1	240 1	240 4	240 6	230 2							
IN3000F2	MED CNT UO LO				290 1					U 290 1	U 275 1	U 270 5	U 280 5	U 280 2	U 280 2	U 285 2	U 290 2	U 310 2	U 325 2	U 340 2	U 355 1	U 370 1	U 385 1	U 400 1	U 415 1
f6 F1	MED CNT																								
f6 E	MED CNT					U 270 1											250 2								
n' E	MED CNT																								
f6 E1	MED CNT									U 38 1	U 40 1	U 51 1	U 55 5	U 60 6	U 65 5	U 70 7	U 75 7	U 80 1	U 85 4	U 90 1	U 95 1	U 100 1	U 105 1	U 110 1	U 115 1

SWEEP 1.6 MC TO 19.0 MC IN 18 SECONDS.

MARCH, 1958

TABLE 75

Kerguelen I. 149.45, 70.3E)

TIME 75.0E

	HOUR	D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	D21	D22	D23
f6F2	MED	32	34	33	36	32	30	40	52	58	65	70	82	92	98	98	96	95	86	83	71	54	63	50	39
	CNT	19	13	14	16	13	14	15	25	27	27	27	25	23	24	22	25	26	23	27	21	18	20	20	19
	LO																								
h'F2	MED							U	600	500	610	560	560	495	480	430	515	450	450						
	CNT							1	4	6	12	13	14	13	13	13	15	3	3						
	LO																								
h'F	MED	320	332	320	345	355	370	375	265	250	240	240	230	240	240	240	240	240	250	250	245	240	250	260	280
	CNT	17	16	13	11	10	13	16	23	25	24	26	26	24	20	24	26	26	30	30	25	19	17	17	15
	LO																								
IM3000IF2	MED	255	250	250	230		230	260	270	275	240	250	242	245	250	250	255	260	260	280	270	280	278	268	270
	CNT	8	3	5	7		5	5	18	24	22	22	20	16	17	17	22	22	22	23	14	12	12	8	9
	LO																								
f6F1	MED	*						U	320	400	400	500	520	530	540	520	500	500							
	CNT							1	5	8	13	13	12	13	10	6	6								
	LO																								
f6E	MED	E	E	E	E	E	E	E	255	260	320	350	362	370	370	360	350	325	278	230	110	E	E	U	E
	CNT	6	8	2	1	2	1	4	18	26	23	22	16	11	11	11	22	26	22	13	6	7	8	1	5
	LO																								
h'E	MED	E	E	E	E	E	E	E	115	110	110	110	110	110	110	110	110	110	110	115	E	E	E	E	E
	CNT	7	7	2	2	2	3	6	17	14	12	11	5	17	9	10	13	18	11	5	8	6	9	1	4
	LO																								
f6E1	MED	28	21	29	22	31	18	27	16																
	CNT	24	27	25	25	23	16	18	24	26	23	24	24	37	16	18	23	24	21	21	17	17	16	16	23
	LO																								

SWEEP 0.80 MC TO 14.14 MC IN 10 MINUTES, AUTOMATIC OPERATION.

MARCH, 1958

TABLE 76

TERRE ADELIE 166.75, 140.00EI

TIME 135.0E

[illegible]

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE.

MARCH, 1958

TABLE 90
BUDAPEST, HUNGARY (47.4N, 19.2E)[illegible]

SWEEP 1.0 MC TO 20.0 MC IN 35 SECONDS.

APRIL, 1957

TABLE 90

[illegible]

SWEEP 1.0 MC TO 20.0 MC IN 35 SECONDS.

MARCH, 1957

TABLE 91

BUDAPEST, HUNGARY (47.4N, 19.2E)

	MGR	G0	G1	G2	G3	G4	G5	G6	G7	G8	G9	I0	I1	I2	I3	I4	I5	I6	I7	I8	I9	J0	J1	J2	J3
f6F2	MEO CNT LO	47 25 55	46 26 26	44 26 26	44 26 26	43 26 26	37 26 26	38 26 26	58 25 25	90 27 27	108 24 24	115 23 23	124 21 21	130 19 19	123 22 22	122 26 26	120 22 22	110 24 24	103 26 26	94 25 25	85 23 23	68 25 25	58 25 25	52 26 26	48 26 26
h'F2	MEO CNT LO	305 25 25	310 26 26	310 26 26	310 26 26	315 26 26	300 23 23	300 23 23	265 27 27	236 27 27	230 26 26	230 27 27	230 26 26	230 25 25	230 26 26	230 26 26	235 26 26	235 26 26	230 25 25	230 26 26	230 25 25	245 25 25	280 25 25	285 26 26	300 26 26
h'F	MEO CNT LO																								
IM3000I2	MEO CNT LO																								
f6FI	MEO CNT								1	2	4	4	5	6	4	2		3							
f6E	MEO CNT								2	240	280	300	320	320	320	320	280	260	210						
h'E	MEO CNT								2	13	23	24	22	24	23	24	23	23	10						
f6Et	MEO CNT								2	120	120	110	115	110	115	115	115	120	130						
										12	23	24	23	24	23	24	23	22	10						

SWEEP 1.0 MC TO 20.0 MC IN 35 SECONDS.

FEBRUARY, 1957

BUDAPEST, HUNGARY (47.4N, 19.2E)

[illegible]

SWEEP 1.0 MC TO 20.0 MC IN 35 SECONDS.

JANUARY, 1957 3

TABLE 94

FREIBURG, GERMANY (48°14'N, 7°48'E)

FREIBURG, GERMANY (46.11N, 7.8E)																									
HOUR	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	MEQ CMT UO LO	31 29 30 30	32 30 30 30	32 29 30 30	31 29 30 30	29 30 30 30	26 24 30 30	37 30 30 30	46 30 30 30	54 30 30 30	57 30 30 30	62 29 30 30	58 30 30 30	57 30 30 30	59 30 30 30	53 29 30 30	42 30 30 30	34 30 30 30	32 30 30 30	30 30 30 30	30 30 30 30	30 30 30 30	31 30 30 30	32 30 30 30	
17 F2	MEQ CMT UO LO								230 10	230 18	235 19	248 26	240 25	242 25	242 12	235 12	2								
17 F	MEQ CMT UO LO	276 30	272 30	265 29	260 29	248 30	240 30	230 25	230 27	222 27	222 27	222 27	222 27	222 27	222 27	222 27	222 27	222 27	222 27	222 27	222 27	222 27	222 27	222 27	
180000F2	MEQ CMT UO LO	297 29	300 29	300 29	300 28	304 28	318 30	332 28	340 30	348 30	358 29	362 29	362 29	362 29	362 29	362 29	362 29	362 29	362 29	362 29	362 29	362 29	362 29	362 29	
16 F1	MEQ CMT								1	5	5	1	1												
16 E	MEQ CMT								176 23	220 20	241 17	258 20	265 20	255 20	236 20	202 20	159 20								
17 E	MEQ CMT								125 14	118 17	116 18	116 20	115 18	115 19	121 10	3									
16 E4	MEQ CMT	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
	MEQ CMT	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	

SWEEP 1-25 MC TO 20.0 MC IN 10 MINUTES.

NOVEMBER, 1954

TABLE 93

FREIBURG, GERMANY (48°14'N, 7°48'E)

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MEQ CMT UO LO	32 31 30 30	32 31 30 30	32 31 30 30	32 31 30 30	31 30 30 30	26 24 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30	25 26 30 30
17F2	MEQ CMT UO LO																							
17F	MEQ CMT UO LO	260 28	255 29	255 30	260 31	245 31	240 31	230 26	230 26	230 26	230 26	230 26	230 26	230 26	230 26	230 26	230 26	230 26	230 26	230 26	230 26	230 26	230 26	230 26
180000F2	MEQ CMT UO LO	303 31	306 30	303 31	306 31	306 31	319 31	323 31	327 31	360 31	366 31	366 31	362 30	362 30	362 30	362 30	360 31	349 31	326 30	321 30	334 30	320 30	303 30	309 31
16F1	MEQ CMT																							
16E	MEQ CMT																							
17E	MEQ CMT																							
16E4	MEQ CMT																							

SWEEP 1-25 MC TO 20.0 MC IN 10 MINUTES.

DECEMBER, 1954

TABLE 95

FREIBURG, GERMANY (48°14'N, 7°48'E)

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MEQ CMT UO LO	30 31 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30	29 30 30 30
17F2	MEQ CMT UO LO																							
17F	MEQ CMT UO LO	282 28	280 28	270 28	265 28	250 28	230 28	220 28	220 28	220 28	220 28	220 28	220 28	220 28	220 28	220 28	220 28	220 28	220 28	220 28	220 28	220 28	220 28	220 28
180000F2	MEQ CMT UO LO	294 28	291 28	300 28	300 28	316 28	316 28	354 28	354 28	360 28	363 28	363 28	363 28	363 28	363 28	363 28	363 28	363 28	363 28	363 28	363 28	363 28	363 28	363 28
16F1	MEQ CMT																							
16E	MEQ CMT																							
17E	MEQ CMT																							
16E4	MEQ CMT																							

SWEEP 1-25 MC TO 20.0 MC IN 10 MINUTES.

OCTOBER, 1954

TABLE 96

FREIBURG, GERMANY (48°14'N, 7°48'E)

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MEQ CMT UO LO	31 29 30 30	30 28 28 28	29 28 28 28	29 28 28 28	29 28 28 28	29 28 28 28	30 29 30 30	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28	30 28 28 28
17F2	MEQ CMT UO LO																							
17F	MEQ CMT UO LO	280 23	280 23	278 23	270 23	260 23	235 23	230 17	230 17	230 17	230 17	230 17	230 17	230 17	230 17	230 17	230 17	230 17	230 17	230 17	230 17	230 17	230 17	230 17
180000F2	MEQ CMT UO LO	292 29	288 29	286 29	292 29	307 29	320 29	326 29	326 29	326 29	326 29	326 29	326 29	326 29	326 29	326 29	326 29	326 29	326 29	326 29	326 29	326 29	326 29	326 29
16F1	MEQ CMT																							
16E	MEQ CMT																							
17E	MEQ CMT																							
16E4	MEQ CMT																							

SWEEP 1-25 MC TO 20.0 MC IN 10 MINUTES.

SEPTEMBER, 1954

Fig. 1. FAIRBANKS, ALASKA
64.9°N, 147.8°W SEPTEMBER 1961

Fig. 2. WASHINGTON, D. C.
38.7°N, 77.1°W SEPTEMBER 1961

Fig. 3. ANCHORAGE, ALASKA
61.2°N, 149.9°W AUGUST 1961

Fig. 4. ADAK, ALASKA
51.9°N, 176.6°W AUGUST 1961

Fig. 5. ANCHORAGE, ALASKA
61.2°N, 149.9°W OCTOBER 1960

Fig. 6. ADAK, ALASKA
51.9°N, 176.6°W OCTOBER 1960

Fig. 7. BAGUIO, P. I.
16.4°N, 120.6°E OCTOBER 1960

Fig. 8. POINT BARROW, ALASKA
71.3°N, 156.8°W SEPTEMBER 1960

Fig. 9. GODHAVN, GREENLAND
69.3°N, 53.5°W SEPTEMBER 1960

Fig. 10. REYKJAVIK, ICELAND
64.1°N, 21.8°W SEPTEMBER 1960

Fig. 11. ANCHORAGE, ALASKA
61.2°N, 149.9°W SEPTEMBER 1960

Fig. 12. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4°W SEPTEMBER 1960

Fig. 13. ADAK, ALASKA
51.9°N, 176.6°W SEPTEMBER 1960

NBS 505

Fig. 14. BOULDER, COLORADO
40.0°N, 105.3°W SEPTEMBER 1960

NBS 505

Fig. 15. GRAND BAHAMA I.
26.6°N, 78.2°W SEPTEMBER 1960

NBS 505

Fig. 16. MAUI, HAWAII
20.8°N, 156.5°W SEPTEMBER 1960

NBS 505

Fig. 17. BAGUIO, P. I.
16. 4°N, 120.6°E SEPTEMBER 1960

Fig. 18. La PAZ, BOLIVIA
16.5°S, 68.1°W SEPTEMBER 1960

Fig. 19. CONCEPCION, CHILE
36.6°S, 73.0°W SEPTEMBER 1960

Fig. 20. POINT BARROW, ALASKA
71.3°N, 156.8°W AUGUST 1960

Fig 21. GODHAVN, GREENLAND
69.3°N, 53.5°W AUGUST 1960

Fig 22. REYKJAVIK, ICELAND
64.1°N, 21.8°W AUGUST 1960

Fig 23. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4°W AUGUST 1960

Fig 24. GRAND BAHAMA I.
26.6°N, 78.2°W AUGUST 1960

Fig. 25. MAUI, HAWAII
20.8°N, 156.5°W AUGUST 1960

Fig. 26. POLE STATION
90.0°S AUGUST 1960

Fig. 27. BYRD STATION
80.0°S, 120.0°W FEBRUARY 1960

Fig. 28. POLE STATION
90.0°S FEBRUARY 1960

Fig. 33. WILKES STATION
66.9°S, 110.5°E NOVEMBER 1959

Fig. 34. TUCUMAN, ARGENTINA
26.9°S, 65.4°W OCTOBER 1959

Fig. 35. TUCUMAN , ARGENTINA
26.9°S, 65.4°W SEPTEMBER 1959

Fig. 36. CONCEPCION, CHILE
36.6°S, 73.0°W SEPTEMBER 1959

Fig. 37. TUCUMAN, ARGENTINA
26.9°S, 65.4°W AUGUST 1959

Fig. 38. SAO PAULO, BRAZIL
23.5°S, 46.5°W JULY 1959

Fig. 39. TUCUMAN, ARGENTINA
26.9°S, 65.4°W JULY 1959

Fig. 40. WILKES STATION
66.3°S, 110.5°E JULY 1959

Fig. 41. FREIBURG, GERMANY
48.1°N, 7.6°E

JUNE 1959

Fig. 42. TUCUMAN, ARGENTINA
26.9°S, 65.4°W

JUNE 1959

Fig. 43. WILKES STATION
66.3°S, 110.5°E

JUNE 1959

Fig. 44. FREIBURG, GERMANY
48.1°N, 7.6°E

MAY 1959

Fig. 45. TUCUMAN, ARGENTINA
26.9°S, 65.4°W

MAY 1959

NBS 503

Fig. 46. FREIBURG, GERMANY
48.1°N, 7.6°E

APRIL 1959

NBS 503

Fig. 47. NATAL, BRAZIL
5.3°S, 35.1°W

APRIL 1959

NBS 503

Fig. 48. TSUMEB, SOUTH W. AFRICA
19.2°S, 17.7°E

APRIL 1959

NBS 503

Fig. 49. TUCUMAN, ARGENTINA
26.9°S, 65.4°W

APRIL 1959

Fig. 50. WILKES STATION
66.9°S, 110.5°E

MARCH 1959

Fig. 51. PARAMARIBO, SURINAM
5.8°N, 55.2°W

JANUARY 1959

Fig. 52. BUENOS AIRES, ARGENTINA
34.5°S, 58.5°W

NOVEMBER 1958

Fig 53. ALERT, CANADA
82.6°N, 62.6°W
OCTOBER 1958

Fig 54. BUDAPEST, HUNGARY
47.4°N, 19.2°E
OCTOBER 1958

Fig 55. PARAMARIBO, SURINAM
5.8°N, 55.2°W
OCTOBER 1958

Fig 56. BUENOS AIRES, ARGENTINA
34.5°S, 58.5°W
OCTOBER 1958

Fig. 57. BUDAPEST, HUNGARY
47.4°N, 19.2°E SEPTEMBER 1958

Fig. 58. BUENOS AIRES, ARGENTINA
34.5°S, 58.5°W SEPTEMBER 1958

Fig. 59. ALERT, CANADA
82.6°N, 62.6°W AUGUST 1958

Fig. 60. HALLEY BAY
75.5°S, 26.6°W AUGUST 1958

Fig. 61. BUDAPEST, HUNGARY
47.4°N, 19.2°E

JULY 1958

NBS 503

Fig. 62. HALLEY BAY
75.5°S, 26.6°W

JULY 1958

NBS 503

Fig. 63. BUDAPEST, HUNGARY
47.4°N, 19.2°E

JUNE 1958

NBS 503

Fig. 64. KERGUELEN I.
49.4°S, 70.3°E

JUNE 1958

NBS 503

Fig. 65. TERRE ADELIE
66.7°S, 140.0°E

JUNE 1958

Fig. 66. BUDAPEST, HUNGARY
47.4°N, 19.2°E

MAY 1958

Fig. 67. MARION I.
64.6°S, 37.9°E

MAY 1958

Fig. 68. KERGUELEN I.
49.4°S, 70.3°E

MAY 1958

Fig. 69. TERRE ADELIE
66.7°S, 140.0°E

MAY 1958

Fig. 70. HALLEY BAY
75.5°S, 26.6°W

MAY 1958

Fig. 71. KERGUELEN I.
49.4°S, 70.3°E

APRIL 1958

Fig. 72. TERRE ADELIE
66.7°S, 140.0°E

APRIL 1958

Fig. 73. BUENOS AIRES, ARGENTINA
34.5°S, 58.5°W MARCH 1958

Fig. 74. MARION I.
46.8°S, 37.9°E MARCH 1958

Fig. 75. KERGUELEN I.
49.4°S, 70.3°E MARCH 1958

Fig. 76. TERRE ADELIE
66.7°S, 140.0°E MARCH 1958

Fig. 77. HALLEY BAY
75.5°S, 26.6°W MARCH 1958

Fig. 78. MARION I.
46.8°S, 37.9°E FEBRUARY 1958

Fig. 79. KERGUELEN I.
49.4°S, 70.3°E FEBRUARY 1958

Fig. 80. TERRE ADELIE
66.7°S, 140.0°E FEBRUARY 1958

Fig. 81. MARION I.
46.8°S, 37.9°E JANUARY 1958

Fig. 82. TSUMEB, SOUTH W. AFRICA
19.2°S, 17.7°E DECEMBER 1957

Fig. 83. MARION I.
46.8°S, 37.9°E DECEMBER 1957

Fig. 84. TSUMEB, SOUTH W. AFRICA
19.2°S, 17.7°E NOVEMBER 1957

Fig. 85. MARION I.
46.8°S, 37.9°E NOVEMBER 1957

Fig. 86. TSUMEB, SOUTH W. AFRICA
19.2°S, 17.7°E OCTOBER 1957

Fig. 87. MARION I.
46.8°S, 37.9°E OCTOBER 1957

Fig. 88. TSUMEB, SOUTH W. AFRICA
19.2°S, 17.7°E AUGUST 1957

Fig. 89. BUDAPEST, HUNGARY
47.4°N, 19.2°E

APRIL 1957

Fig. 90. BUDAPEST, HUNGARY
47.4°N, 19.2°E

MARCH 1957

Fig. 91. BUDAPEST, HUNGARY
47.4°N, 19.2°E

FEBRUARY 1957

Fig. 92. BUDAPEST, HUNGARY
47.4°N, 19.2°E

JANUARY 1957

Fig. 93. FREIBURG, GERMANY
48.1°N, 7.8°E DECEMBER 1954

Fig. 94. FREIBURG, GERMANY
48.1°N, 7.8°E NOVEMBER 1954

Fig. 95. FREIBURG, GERMANY
48.1°N, 7.8°E OCTOBER 1954

Fig. 96. FREIBURG, GERMANY
48.1°N, 7.8°E SEPTEMBER 1954

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December 1959	8	32
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Catalog of Data:

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

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

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

NBS Circular 462. Ionospheric Radio Propagation. \$1.25.
NBS Circular 465. Instructions for the Use of Basic Radio Propagation Predictions. 30 cents.
NBS Circular 557. Worldwide Radio Noise Levels Expected in the Frequency Band 10 Kilocycles to 100 megacycles. 30 cents.
NBS Circular 582. Worldwide Occurrence of Sporadic E. \$3.25.

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

Selected Technical Notes of the National Bureau of Standards:

NBS Tech. Note 2. PB151361. World Maps of F2 Critical Frequencies and Maximum Usable Frequency Factors. \$3.50. PB151361-2. \$3.50.
NBS Tech. Note 13. PB151372. Technical Considerations Leading to an Optimum Allocation of Radio Frequencies in the Band 25 to 60 Mc. \$2.50.
NBS Tech. Note 18. PB151377. Radio Noise Data for the IGY. \$2.50.
18-2. PB151377-2. Quarterly Radio Noise Data (Mar.-May 1959). \$1.00.
18-3. PB151377-3. (June-Aug. 1959). \$1.00.
18-4. PB151377-4, etc. (Sept.-Nov. 1959). \$1.50.
NBS Tech. Note 31. PB151390. An Atlas of Oblique-Incidence Ionograms. \$2.25.
NBS Tech. Note 40-1. PB151399-1. Mean Electron Density Variations of the Quiet Ionosphere, 1: March 1959. \$1.25.
40-2. PB151399-2, etc. 2: April 1959. \$1.25.
NBS Tech. Note 117. PB161618. Variations in Frequency of Occurrence of Sporadic E, 1949—1959. \$0.75.
These Technical Notes are on sale by the Office of Technical Services, U. S. Department of Commerce, Washington 25, D. C. Order by PB number.