

Kodaikanal Observatory

Bulletin No. CLVII

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Introduction

This Bulletin for the second half of 1958 contains in addition to the usual summary of prominence and calcium flocculus observations, other data specially collected for the I G Y in respect of surges, active prominence regions and sunspots. Information concerning the hours of flare patrol and the times at which photoheliograms were secured at this observatory is also included.

PART I

Summary of prominence and calcium flocculus observations for the second half of 1958

Part I of this Bulletin embodies the results of observations of prominences and calcium flocculi made at Kodaikanal Observatory during the second half of 1958 supplemented by data computed from photographs supplied by the Mount Wilson and Meudon Observatories for those days on which Kodaikanal had imperfect or no observations.

Calcium prominences on the limb

During the half-year under review, photographs of calcium prominences on the limb were obtained at Kodaikanal on 105 days. Spectroheliograms for 75 days were obtained from the Mount Wilson Observatory and for 47 days from the Meudon Observatory.

The mean daily areas (in sq. minutes of arc) and the mean daily numbers of prominences derived from all the above records are tabulated below. The means are corrected for incomplete or imperfect observations, the total of 180 days for which plates were available being reduced to 176½ effective days.

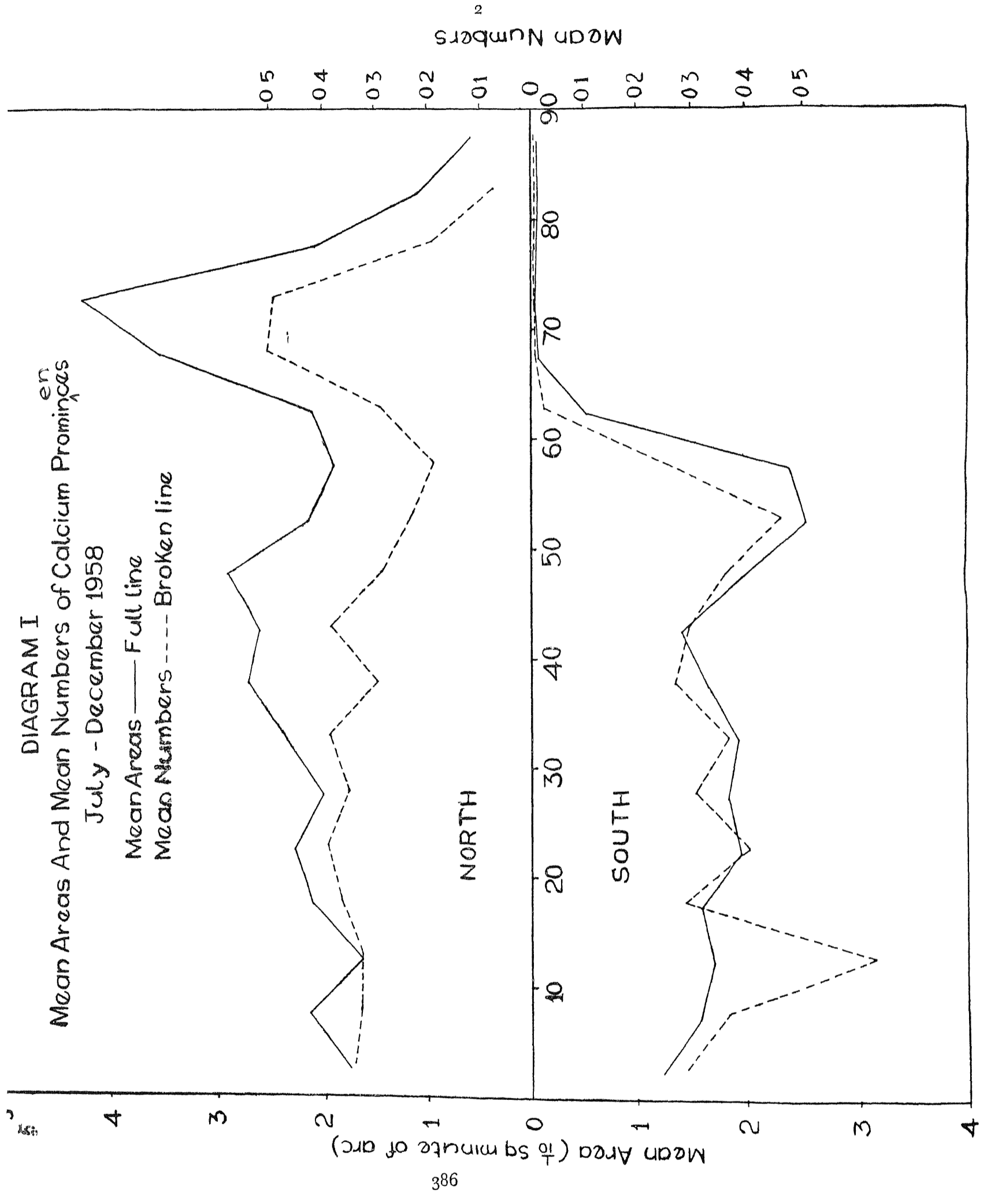
Combined data		
	Mean daily areas (sq. minutes)	Mean daily numbers
North	3.88	5.43
South	2.22	4.32
TOTAL	6.10	9.75

The above figures show that compared to the previous half-year there has been a slight decrease in area amounting to 5.2% while the numbers show an increase of 3.4%.

For comparison with data published in Bulletins prior to 1923, i.e., before the cooperation of other observatories came into force, the following table gives the values based on Kodaikanal observations alone.

Kodaikanal data only		
	Mean daily area (Sq. minutes)	Mean daily number
North	3.69	5.51
South	2.28	4.32
TOTAL	5.97	9.83

The distribution of areas and numbers in five-degree ranges of latitude calculated from the combined data is represented in diagram I. Judged from the areas the peak of activity in the northern hemisphere has advanced towards the pole and is in the latitude belt 70°-75°. In the southern hemisphere the maximum activity is in the belt 50°-55°.



The monthly, quarterly and half-yearly areas, numbers, heights and extents of prominences as derived from all the records are shown in Table I

TABLE I

1958 Months	No of days (effective)	Area (sq minutes)	Numbers	Daily means		Mean height "	Mean extent °
				Area (sq minutes)	Numbers		
July	29½	177.35	300	6.01	10.17	51.7	4.51
August	27½	197.70	261	7.12	9.41	54.6	4.73
September	29½	157.10	281	5.32	9.52	50.6	4.43
October	29½	129.25	220	4.43	7.52	52.7	4.60
November	30	192.60	317	6.42	10.57	46.1	4.28
December	30½	222.50	344	7.29	11.28	52.3	4.90
3rd quarter	86½	532.15	842	6.13	9.71	52.3	4.56
4th quarter	89½	541.35	881	6.06	9.81	50.2	4.60
2nd half-year	176½	1076.50	1723	6.10	9.76	51.2	4.58

The distribution of prominences about the sun's axis of rotation is as follows

1958 July-December	East	West	% East
Total area (Sq minutes)	515.8	560.7	47.9
Total numbers	869	854	50.4

Observations with the prominence spectroscope

12 bright reversals of the H-alpha line near sunspots were observed

The mean heights in H-alpha, D₃ and H-beta of 10 prominences observed with the spectroscope and the mean height in the K line of the same prominences measured from the calcium spectroheliograms are as follows

	Mean height
K	93.0
H-alpha	82.4
D ₃	74.0
H-beta	64.0

Observations with the Hale Spectroheliroscope

Details of Doppler displacements in H-alpha line observed in prominences and dark markings are tabulated below

	N	S	E	W	Total	Displacements		
						To Red	To Violet	Both ways
Displacements in prominences	21	13	18	16	34	2		32
Displacements in dark markings	7	11	9	9	18	1	1	16

Solar Flares.

Particulars of solar flares observed during the period are given in table II

TABLE II

Date 1958	Time in I S T			Mean latitude	Mean longitude from Central Meridian	Intensity	Maximum width of H-alpha line observe	Remarks
	Beginning h m	Maximum h m	End h m					
July 26	07 35	07 39	07 52	15° S	04° W	1	1.6	
October 23 (i)	07 55	08 04	08 22	09° S	20° W	1	2.0	
October 23 (ii)	08 04	08 22	08 35	05° S	40° W	2	1.6	
November 27	12 00		12 07	22° N	12° W	1	1.3	
December 1	11 44*		11 55	19° S	18° W	Probably 1	1.2	
December 8	14 37*		14 55	04° S	48° E	Probably 1	1.6	
December 16	08 00*		08 06	24° N	08° E	1	2.8	

*Time when flare was first observed and not beginning of flare

Sudden disappearance of prominences and H-alpha dark markings

Details of sudden disappearance of prominences and H-alpha absorption markings observed during the period are given in the following table

TABLE III

Nature of phenomenon	Date and time of phenomenon when last seen		Coordinates of phenomenon		Remarks
	Date	Time (IST) h m	Mean latitude	Mean longitude	
Dark Marking	11th Nov, 1958	10 30	10°N	30°W	Part of the dark marking disappeared between 11th and 12th November
Dark Marking	1st Dec, 1958	14 20	13°S	22°W	Major portion of the dark marking disappeared between 1st & 2nd of December
Prominence	6th Dec, 1958	11 00	46°N	90°E	Disappeared between 6th and 7th December
Dark Marking	29th Dec, 1958	16 00	14°N	32°W	Major portion of the dark marking disappeared between 29th and 30th December

Prominences projected on the disc as absorption markings

During the period under review, photographs of the sun's disc in H-alpha line were secured on 115 days at Kodaikanal Spectroheliograms were also received for 60 days from the Mount Wilson Observatory and for 48 days from the Meudon Observatory

The mean daily areas in millionths of the sun's visible hemisphere (uncorrected for foreshortening) and the mean daily numbers of H-alpha dark markings as derived from the combined photographs are given below. The means are corrected for incomplete or imperfect observations, the total of 179 days for which plates were available being reduced to 177½ effective days.

	Combined data	
	Mean daily area (millionths of the sun's visible hemisphere)	Mean daily numbers
North	2,608	17.25
South	2,254	13.78
TOTAL	4,862	31.03

Compared to the previous half-year's values, these figures show an increase of 2.5% in areas and 12.1% in numbers.

The figures based on only Kodaikanal photographs are also given below for comparison with similar data.

	Kodaikanal data only	
	Mean daily area (millionths of the sun's visible hemisphere)	Mean daily numbers
North	2,584	17.11
South	2,259	14.09
TOTAL	4,843	31.20

The distribution of the areas on the markings in five-degree ranges of latitude as obtained from the combined data is shown in diagram II. The activity in the northern hemisphere is maximum over a broad belt extending from latitude 15° to latitude 40° with two peaks at about latitude 17° and latitude 38°. In the southern hemisphere the maximum activity is in the latitude belt 20°-35°.

The distribution of total areas and numbers of the dark markings east and west of the sun's axis is as follows —

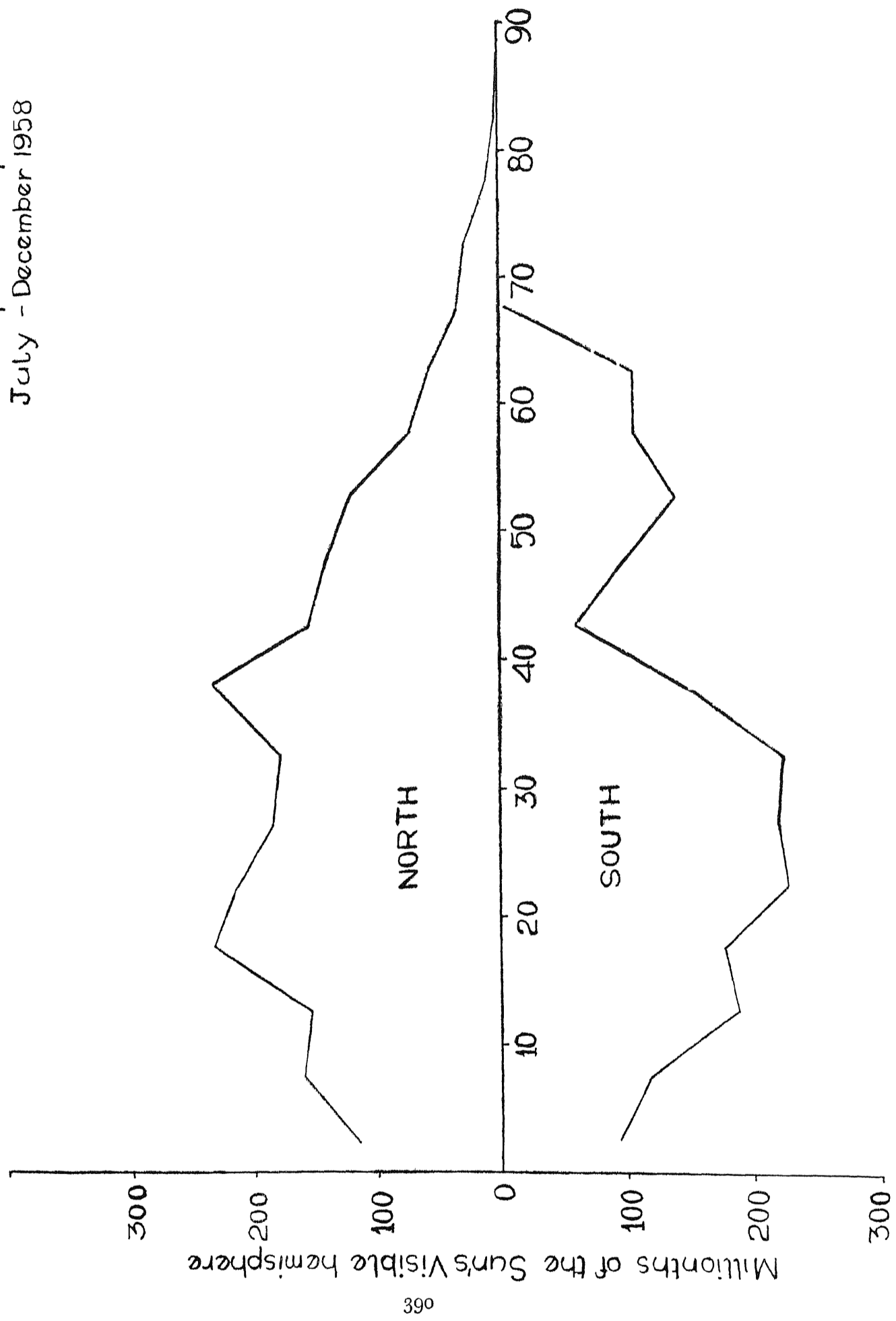
	Combined data		
	East	West	Percentage East
Total area (millionths of the sun's visible hemisphere)	3,74,144	4,90,189	43.2
Total numbers	2,623	2,885	47.6

The western preponderance in areas and numbers noticed during the previous half-year is maintained.

Calcium Flocculus.

During the half-year under review Calcium Flocculus spectroheliograms were available at Kodaikanal on 109 days. Spectroheliograms for 62 days were obtained from the Mount Wilson Observatory and for 47 days from the Meudon Observatory. In all complete observations were available for 172½ effective days.

DIAGRAM II
Mean Areas of H-alpha Absorption Markings
July - December 1958



The mean daily areas (in millionths of the sun's visible hemisphere—uncorrected for foreshortening) calculated from the combined data are given in the following table

		Combined data
		Mean daily area (millionths of the sun's visible hemisphere)
North		13,290
South		12,342
TOTAL		25,632

Compared to the previous half-year's value there is a decrease of 7.9% in the mean daily area
The distribution of flocculi east and west of the sun's axis of rotation is as follows.—

	East	West	Percentage east
Total area (in millionths of the sun's visible hemisphere)	2,253,130	2,177,971	50.8%

Our thanks are due to the cooperating observatories for the photographs supplied by them
Special I G Y data are given in tables IV to IX.

TABLE IV
Surges, Eruptive Prominence and Active Prominence Regions

Date	Phenomenon*	Importance	Time I S I		Position (Heliographic)		Direction of Outflow	Remarks
			Begin	End	Latitude	Log diff from CM		
1958								
7th September	APR	1	0755	1200	27°N	90°W	rs	AJ
10th October	APR	2	0740	1115	10 S	90 E	r	L.
13th October	DSD	1	0755	0830	42 N	60 E		A.
23rd October	APR	1	0740		20 S	90 W	rn	Q. Activity ended between 0840 & 0930
3rd November	DSD	1	0755	0830	20 S	3 E		G
29th November	APR	1	0735	1435	50 N	90 W	rn	L
1st December	BSL	1	0810	0830	10 N	90 W	rn	Probably B
3rd December	BSL	1	1530	1545	15 N	90 E	r	
21st December	BSL	1	1156		6 N	90 E	r	End could not be observed due to clouds
22nd December	EPL	1	1155	1212	20 S	90 E	r	A
31st December	APR	2	0735	1040	40 S	90 W	rn	Q

*CODE — DSD=Dark surge on disk, BSL=bright surge at limb, APR=active prominence region, BSD=bright surge on disk, AFR=active filament region.

TABLE V

Flare Patrol Hours (Spectroheliograph)

Month & Date	Period of Watch (IST)	Month & Date	Period of Watch (IST)
July, 1958		September 1958	
5th	0740—0840 , 0945—1000 , 1040—1100 , 1130—1150	1st	0940—0950 , 1435—1445
7th	0730—0830	2nd	0810—0830 , 0850—0910 , 0930—1000 , 1030—1100 , 1412—1420
13th	0855—0920 , 0930—0940 , 1030—1100	3rd	0745—0845 , 0930—1000 , 1030—1100
17th	0900—0930 , 1030—1050	4th	0730—0830 , 0930—1000
18th	0940—1000 , 1100—1125 , 1130—1140	5th	0735—0830
19th	1400—1430	6th	0900—0910 , 1005—1020 , 1030—1100
20th	0830—1000 , 1030—1100 , 1130—1200 , 1400—1430 , 1530—1600	7th	0745—0830 , 0930—1000 , 1030—1100 , 1130—1200
21st	0740—0830 , 0930—1000 , 1030—1100 , 1530—1600	8th	0915—1000
23rd	0730—0830 , 0930—0935 , 1030—1100 , 1135—1200 , 1415—1425	9th	0730—0830 , 0930—1000 , 1030—1100 , 1130—1155
24th	0740—0820 , 0930—0945 , 1030—1100 , 1420—1440	10th	0730—0830 , 0930—1000 , 1030—1035
25th	0730—0830 , 0930—1000 , 1030—1100 , 1130—1140	11th	0730—0830 , 0930—1000 , 1030—1100 , 1130—1200 , 1445—1450 , 1530—1600
26th	0730—0830 , 0930—1000 , 1030—1100	12th	0805—0905 , 0930—1000
28th	0740—0830 , 0930—1000 , 1048—1100 , 1130—1200	13th	0730—0830 , 0930—1000 , 1040—1050 , 1050—1100
29th	0805—0810	14th	0730—0830 , 0930—1000 , 1030—1100 , 1130—1150
30th	0830—1000 , 1040—1100 , 1130—1200 , 1400—1430 , 1500—1535	15th	0730—0830 , 0930—1005
31st	0910—1000	16th	0820—0835 , 0850—0900 , 0930—0955 , 1030—1038
August 1958		17th	0800—0900 , 1010—1020 , 1030—1050
1st	0730—0830 , 0930—1000	18th	0815—0915 , 0945—1000
5th	1125—1135	19th	0730—0830
6th	0730—0830	20th	0745—0815 , 0825—0835 , 0930—0955
8th	0820—0840	22nd	0740—0830 , 0930—1000 , 1030—1058 , 1130—1135 , 1145—1200
11th	1030—1050	24th	0940—1000 , 1035—1050
14th	0945—1005	25th	0820—0940 , 1030—1100 , 1130—1200
18th	0905—0910 , 0930—0940 , 1030—1045	26th	0935—1000
24th	0730—0830 , 0930—1000 , 1030—1100 , 1420—1430	27th	0730—0830 , 0930—1000 , 1030—1050
25th	0820—0845	28th	0740—0840
28th	0730—0830	30th	0730—0830 , 0930—1000 , 1030—1100
31st	0815—0845	October 1958	
		1st	0745—0810 , 1042—1100 , 1135—1200

TABLE V—*contd*

Flare Patrol Hours (Spectroheliograph)

Month & Date	Period of Watch (IST)	Month & Date	Period of Watch (IST)
October 1958— <i>contd</i>		November 1958— <i>contd</i>	
2nd	0735—0830	14th	0810—0848, 1125—1140
3rd	0930—1015, 1015—1100, 1130—1140	15th	0800—0830, 0930—1000, 1030—1100, 1130—1200
8th	0810—0815, 0930—0955, 1045—1055	16th	0730—0830
10th	0740—0745, 0805—0815, 0930—1000, 1030—1120	17th	0800—0830, 0930—1000, 1030—1055, 1150—1200, 1530—1600
11th	0740—0830, 0930—1000, 1035—1040	18th	0730—0810, 0930—1000, 1030—1100, 1130—1115, 1100—1130
13th	0740—0830, 0930—1000	23rd	0830—0835
14th	0800—0900, 0930—1000, 1030—1100	24th	0730—0830, 0930—1000, 1030—1100, 1130—1200
18th	0815—0835, 0950—1000, 1030—1100	25th	0715—0815
19th	0715—0825, 0930—0955, 1030—1045, 1115—1155	26th	0710—0830
21st	0745—0830, 0930—1000, 1030—1045	27th	0735—0830, 0930—1000, 1035—1100, 1130—1200
23rd	0740—0840, 0930—0955, 1030—1045	28th	0730—0800
24th	0810—0850	29th	0735—0835, 0930—1000, 1030—1100, 1130—1200, 1130—1445
25th	0900—0910,	30th	0730—0830, 0920—1000, 1130—1200
26th	0800—0810, 1110—1415	December 1958	
27th	0810—0845, 1435—1450, 1455—1500	1st	0735—0835, 0930—1000, 1030—1035, 1110—1155, 1120—1125
28th	1105—1110, 1125—1135, 1420—1430	2nd	0835—0850
29th	0755—0830, 0930—0940	3rd	0730—0830, 0930—1000, 1410—1420, 1530—1600
November 1958		6th	0735—0835, 0930—1000, 1030—1100
1st	0825—0835, 0940—1000, 1055—1105	7th	0730—0815, 0900—0915, 0930—1000, 1030—1100, 1130—1200, 1130—1445, 1530—1515
3rd	0730—0830	8th	1425—1447
4th	0730—0830, 0950—1000, 1050—1100, 1130—1140	9th	1425—1442
5th	0740—0830, 0930—0950	11th	0940—1015, 1535—1540
6th	0835—0905, 0930—1000, 1030—1100, 1130—1200, 1430—1440	13th	1410—1425, 1535—1540
7th	0730—0735, 0800—0830, 0940—1000	16th	0745—0830, 0916—0955, 1130—1135, 1145—1200, 1415—1430
8th	0730—0830, 1025—1035, 1045—1055	17th	1040—1045, 1111—1150, 1444—1450
9th	0735—0830, 0930—0950	18th	0735—0835, 0935—0940, 1030—1100, 1130—1140, 1405—1435, 1445—1450
10th	0735—0830, 1020—1030		
11th	0830—0900, 0930—1000		
12th	0800—0845		

TABLE V—*contd**Flare Patrol Hours (Spectroheliograph)*

Month & Date	Period of Watch (IST)	Month & Date	Period of Watch (IST)
<i>December 1958—contd</i>		<i>December 1958—contd</i>	
19th	1540—1550	26th	0843—1000 , 1425—1500
19th	0850—1000 , 1030—1100 , 1130—1200	27th	0730—0830 , 0930—1000 , 1030—1100 , 1130—1200 , 1400—1430 , 1530—1600
20th	0735—0830 , 0930—1000 , 1030—1100	28th	0735—0830 , 0930—1000 , 1030—1100 , 1130—1200 , 1400—1430 , 1540—1600
21st	0735—0835 , 0930—1000 , 1030—1100 1130—1159 , 1500—1515	29th	0735—0830 , 0945—1000 , 1030—1100 , 1130—1200 , 1405—1430 , 1530—1600
22nd	0735—0830 , 0930—1000 , 1150—1212	30th	0735—0830 , 0930—1000 , 1030—1100 , 1130—1200 , 1405—1430 , 1530—1535 , 1548—1556
23rd	0730—0830 , 0830—0845	31st	0730—1000 , 1030—1100 , 1130—1200 , 1410—1425
24th	0730—0830 , 0930—1000 , 1030—1100 , 1130—1140 , 1155—1200 , 1450—1510		
25th	0740—0840 ; 0930—1000 , 1030—1100 , 1130—1140 ; 1155—1200 , 1450—1510		

TABLE VI

List of Spectroheliograms obtained at Kodakanal

Month & Date	H-alpha (IST)		K-Floccu- lus (IST)		K-Promi- nence (IST)	
	H	M	H	M	H	M
July, 1958						
5th	07	40	07	54	08	02
	07	48	07	56	08	06
	11	34	11	16	11	52
	11	41	11	32	14	37
7th	07	32	07	44	07	51
	07	37	07	17	07	57
	09	11				
	09	15				
13th	07	48	09	09	09	20
	09	37	09	11	07	57
	10	15				
17th	08	47	08	58	09	47
	08	51	09	01	09	14
19th	13	58	14	11	14	16
	14	01				
20th	08	23	08	45	08	55
	09	07	08	49	09	01
	09	49	11	33	11	36
	11	22	14	35	14	39
	14	31				

TABLE VI—*contd*

Month & Date	H-dipha (IST)		K-Floccu- lus (IST)		K-promi- nence (IST)	
	H	M	H	M	H	M
July 1958— <i>contd</i>						
21st	07 44 08 21 11 34 14 46		07 55 07 57 11 40 14 57		08 02 08 14 11 44 15 01	
23rd	07 44 07 51		07 59 08 02		08 08 08 16	
24th	07 36 08 59 14 27		07 42 07 47 14 34		07 52 07 54 14 50	
25th	07 49 07 52		07 59 08 01		08 06 08 12	
26th .	07 37 07 41		07 47 07 49		07 53 07 57	
28th .						
	07 50 07 56 09 18 11 14		08 24 08 27 11 29		08 11 08 20 11 20	
30th .						
	09 13 09 20 14 21		09 24 09 32 14 41		08 11 09 45 14 46	
31st	08 04 09 25 09 31		08 22 09 21 11 23		09 05 09 12	
August, 1958						
1st	07 35 07 42 08 46		07 53 07 56		07 01 08 07	
5th .						
	08 39 10 31		10 46 10 47			
6th	07 41 07 46		07 56 07 58		08 03 08 09	
8th .	08 37					
11th	10 39 10 43		10 49 12 07		11 48 12 05	
18th .	10 08 12 12		10 17 10 33		10 27 11 26	
19th .	08 40					
24th	07 35 07 39		07 45 07 47		07 53 08 00	
25th	08 47 10 06		08 56 09 21		09 48 09 55	
28th	07 35 07 39		07 47 07 49		07 54 08 01	
31st	08 51					

TABLE VI—*contd.*

Month & Date	H-alpha (IST)		K-Floccu- lus (IST)		K-Promu- nence (IST)	
	H	M	H	M	H	M
September 1958						
1st	13	53				
	13	58				
2nd .	08	24	09	07	09	15
	09	03	09	09	09	20
rd	08	23	08	33	08	13
	08	26	08	35	08	47
4th	07	35	07	41	07	49
	07	39	07	45	07	53
5th	07	36	07	48	07	51
	07	41	07	50	07	58
					08	05
6th	10	12	10	23	10	29
	10	16	10	25	10	32
7th	08	10	08	22	08	29
	08	15	08	24	08	33
	11	18	11	39	11	42
8th	09	28	09	43	09	50
	09	35	09	45	09	56
9th	08	03	08	13	08	18
	08	34	08	28	08	24
	11	30	11	36	11	47
10th	07	40	07	54	08	01
	07	47	07	57	08	05
11th	07	31	07	42	07	48
	07	37	07	44	07	52
	11	20	11	33	11	30
	15	00	15	20	15	27
12th	08	17	08	25	08	35
	08	55	08	30		
13th	07	37	07	46	07	52
	07	41	07	48	07	57
14th	08	08	08	18	08	24
	08	12	08	21	08	30
	11	28	11	35	11	40
15th	07	35	07	42	07	48
	08	00	07	45	07	53
16th	08	24	08	33	08	47
	08	27	08	40	08	52
17th	08	15	08	28	08	35
	08	21	09	35	08	38
18th	08	13	08	26	08	30
	08	46	08	35	08	38
19th	08	02	08	16	08	22
	08	07	08	18	08	27

TABLE VI—*contd*

Month & Date	H-alpha (IS1)		K-Floccu- lus (IST)		K-Promi- nence (IST)	
	H	M	H	M	H	M
September, 1958— <i>contd</i>						
20th	08	31	08	49	08	59
	09	31	08	53	09	06
22nd	07	47	07	59	08	04
	08	34	08	27	08	06
	10	39			10	46
24th	09	55	10	07	10	16
	10	01	10	10	10	21
	12	02	14	35		
	14	26				
25th	08	42	08	52	08	57
	08	47	08	53	09	01
	11	50				
27th	07	34	07	43	07	51
	07	38	07	45	07	55
28th	07	59	08	05	08	10
	08	26	08	22	08	19
30th	07	33	07	43	07	49
	07	37	07	45	07	53
October, 1958						
1st	11	06	11	36	11	29
	11	11	11	38	11	33
2nd	07	06	07	49	07	56
	07	45	07	52	08	07
3rd	09	06	10	22	10	32
	10	07	10	23	10	38
8th	08	04	08	13	08	18
	08	07	08	14	08	22
10th	07	46	08	47	08	51
	09	05	09	00	08	57
			11	15	11	04
11th	07	31	07	43	07	50
	07	36	07	45	07	54
13th	07	55	08	07	08	13
	08	01	08	09	08	17
14th	08	16	08	27	08	33
	08	22	08	29	08	40
18th	08	23	08	31	09	59
	08	28	08	34	10	06
20th	07	47	08	12	08	04
	07	51	08	14	08	09
	11	23	11	37	11	34
21st	07	33	07	54	08	04
	07	46	07	57	08	09

TABLE VI—*contd.*

Month & Date	H-alpha (IST)	K-Floc- cus (IST)	K Promi- nence (IST)
	H M	H M	H M
October, 1958— <i>contd.</i>			
23rd	07 40 07 45 (0804 to 0838—flare section)	07 51 07 54	07 59 08 47
25th . . .	09 03 09 08		
26th . . .	08 08 14 04 14 13	14 21 14 29 .	14 44
27th . . .	11 40 14 41	12 41 12 48	12 59
29th	07 56 08 00	08 08 08 10	08 14 08 30
November 1958			
1st . . .	09 51 10 32	10 .7 10 42	10 46 10 55
3rd . . .	07 54 07 58	08 05 08 07	08 12 08 17
4th	07 32 07 35	07 40 07 41	07 45 07 49
5th . . .	07 44 08 09	07 50 07 53	07 57 08 01
6th . . .	07 39 07 44 11 12 15 36	07 49 07 51 11 19 11 40	07 55 07 59 11 33
7th . . .	07 35 08 34 11 34	07 59 11 02	09 02 10 52 .
8th . . .	07 36 08 44	07 41 07 44	07 48 07 52
9th	07 42 07 46	07 53 07 55	07 59 08 07
10th . . .	07 37 07 44	07 52 07 56	08 01 08 05
11th	08 41 08 45 11 34	08 51 08 52	08 56 09 01
12th . . .	08 10 09 06 11 07	08 19 08 34	08 24 08 29
14th	11 20 11 24	11 29 11 32	11 38

TABLE VI—*contd*

Month & Date	H-alpha (IS1)		K-Floccu- lus (IST)		K-Pionu- ncccc (IST)	
	H	M	H	M	H	M
November, 1958— <i>contd</i>						
15th	08	19	08	26	08	34
	08	48	08	41	08	39
	11	04	11	10	11	14
16th	07	40	08	36		
	07	48	08	38		
17th	09	08	09	21	09	24
	09	12	09	35	09	32
	11	23				
18th	07	41	07	49	07	55
	07	44	07	51	07	59
	11	33	11	33	11	37
	14	04	14	11	14	15
23rd	08	35	08	55		
	08	47	10	00		
24th	07	35	07	53	07	59
	07	47	07	55	08	03
	11	12	11	22	11	28
25th	07	33	07	46	07	52
	07	37	07	48	07	59
	08	06				
	14	39				
26th	07	54	08	31	08	39
	08	22	08	33	08	43
27th	07	33	07	42	07	49
	07	36	07	45	07	53
	11	35	11	44	11	50
28th	07	42	09	06	09	13
	08	55	09	08	10	16
29th	07	32	07	40	07	46
	07	36	07	43	07	51
	11	25	11	32	11	35
30th	07	43	07	57	08	05
	07	47	08	00	08	19
	11	29	11	36	11	40
December 1958						
1st	07	34	07	48	07	55
	07	40	07	51	07	59
	08	19	11	53	14	11
	14	22	14	15		
2nd	08	46	09	19	09	44
	09	12	09	26		
3rd	07	35	07	45	07	53
	07	38	07	49	07	58
	15	30	15	40	15	36
6th	07	35	07	45	07	54
	07	40	07	48	08	07

TABLE VI—*contd*

Month & Date	H-alpha (IST)		K-Flocculus (IST)		K-Prominence (IST)	
	H	M	H	M	H	M
December, 1958— <i>contd</i>						
7th	07	36	07	46	09	07
	07	40	07	56	09	12
	11	34	08	19	11	49
	15	28	11	39		
			15	39	15	37
8th	14	28	14	38	14	44
	14	32	14	40	14	49
9th	14	36				
	14	42				
11th	09	46	09	59	10	13
	09	54	10	03	10	17
16th	07	37	07	49	07	56
	07	41	07	52	08	03
	(0804— 0814— flare sec- tion)		14	33	14	36
	14	28				
17th	11	42				
	12	09				
18th	07	41	07	53	08	00
	07	46	07	55	14	32
	11	27	14	25		
	14	19				
	14	53				
19th	08	59	09	11	09	19
	09	03	09	13	09	23
20th	07	34	07	44	07	53
	07	38	07	48	07	58
21st	07	28	07	38	07	45
	07	33	07	40	07	50
	11	32	11	39	11	50
	15	01	15	06	15	11
22nd	07	43	07	55	08	03
	07	47	07	58	08	08
			08	59	12	05
23rd	07	38	08	07	08	18
	07	49	08	11	08	24
	08	31				
24th	07	35	07	48	07	55
	07	39	07	50	07	59
	11	31	11	40		
25th	07	42	07	57	08	05
	07	52	08	00	08	10
	11	33	14	59	15	02
	15	10				

TABLE VI—*conold*

Month & Date	H-alpha (I S T)		K-Floccu- lus (I S T)		K-Proru- nence (I S T)	
	H	M	H	M	H	M.
December, 1958 <i>conold</i>						
26th	08	45	08	58	09	11
	08	51	09	00	09	53
27th	07	35	07	44	07	51
	07	39	07	47	07	57
	11	30	11	47	11	53
	14	16	14	20	14	25
28th	07	36	07	50	07	57
	07	41	07	52	08	00
	11	46	11	52	11	55
	14	12	14	19	14	22
29th	07	40	07	53	08	00
	07	45	07	55	08	04
	11	20	11	25	11	29
	14	20	14	26	14	29
30th	07	36	07	48	07	54
	07	40	07	50	07	57
	11	38	11	42	11	45
31st	14	41	14	41	14	35
	07	52	08	03	08	10
	07	57	08	05	08	14
	11	25			10	08
				10	12	} Section
				11	11	

TABLE VII

Last of Photoheliograms obtained at Kodakanal

Month & Date	Time of picture (I S T)	Quality of image	Remarks	Month & Date	Time of Picture (I S T)	Quality of image	Remarks
July, 1958—				July, 1958— <i>conold</i>			
	H M				H M		
4th	08 40	Fair	F	21st	07 55	Fair	F
5th	08 03	Good	F	23rd	10 49	Fair	H
					14 41	Fair	H
7th	08 00	Good	F	24th	07 58	Fair	F
					10 40	Fair	H
13th	08 58	Fair	F	25th	08 19	Fair	F
17th	08 50	Good	F		14 26	Fair	H
19th	14 17	Fair	F	26th	07 48	Fair	F
20th	08 45	Fair	F		11 05	Fair	H
				11 29	Fair	H	
				14 22	Fair	H	
				28th	08 06	Fair	H
					10 35	Fair	H
					08 45	Fair	F

TABLE VII—*contd*

Month & Date	Time of Picture (I S T)	Quality of image	Remarks	Month & Date	Time of Picture (I S T)	Quality of image	Remarks
	H M				H M		
July, 1958—				September, 1958—			
30th	11 00 14 25	Fair Fair	H H	12th	08 54 14 42	Fair Fair	F H
31st	09 00	Fair	F	13th	08 16 11 24	Fair Fair	F H
August, 1958—				14th	08 20 10 30	Fair Fair	F H
1st	07 41	Good	F	15th	07 45	Good	F
5th	10 45	Fair	F	16th	08 20	Excellent	F
6th	08 10	Good	F	17th	08 22	Good	F
8th	08 33	Good	F	18th	08 32	Good	F
11th	10 30	Good	F	19th	08 10	Good	F
14th	09 55	Good	F	20th	08 58	Good	F
18th	09 40	Good	F	22nd	08 19 11 15	Good Fair	F H
24th	07 44	Fair	F	24th	09 56 14 22	Good Fair	F H
25th	08 47	Good	F	25th	08 52 09 20 11 55	Fair Good Poor	F F H
26th	11 06	Good	F	27th	08 02 10 46	Fair Good	F F
28th	08 07	Good	F	28th	08 10	Good	F
31st	08 10 08 32	Fair Fair	F F	30th	07 44	Good	F
September, 1958—				October, 1958—			
1st	09 45	Good	F	1st	11 10	Fair	F
2nd	08 20	Fair	F	2nd	08 08	Good	F
3rd	08 28 10 47	Good Good	H H	3rd	09 40	Good	F
4th	07 52 10 52	Good Good	F H	8th	08 07	Fair	F
5th	08 01	Good	F	10th	08 45 10 33	Good Fair	F F
6th	10 15	Good	F	11th	07 42 10 42	Fair Fair	F F
7th	08 05	Fair	F	13th	08 01	Good	F
8th	10 01 11 02	Good Fair	F H	14th	08 34 10 54	Fair Fair	F F
9th	08 08 10 43	Good Fair	F F	18th	08 20 11 24	Good Excellent	F H
10th	07 42	Good	F				
11th	07 47 10 32	Good Fair	F F				

TABLE VII—*contd*

Month & Date	Time of Picture (I.S.T.)	Quality of image	Remarks	Month & Date	Time of Picture (I.S.T.)	Quality of image	Remarks
	H M				H M		
October, 1958—				November, 1958—			
20th	08 30 10 37	Good Good	F F	16th	07 45	V Poor	F
21st	07 57 11 27	Good Fair	F H	17th	08 40 10 35	Fair Fair	F H
23rd	08 30 10 42	Fair Poor	F H	18th	07 47 10 27	Good Fair	F H
24th	08 43	Fair	F	23rd	09 58	Fair	F
25th	09 05	Fair	F	24th	07 50 10 42	Excellent Fair	F H
26th	13 00 14 15	Fair Fair	F H	25th	07 44 14 30	Excellent Fair	F H
27th	08 40 14 34	Fair Fair	F H	26th	07 43	Good	F
28th	08 39 11 39	Fair Fair	F F	27th	08 00 10 52	Fair Good	F F
29th	08 18	Fair	F	28th	08 43	Good	F
November, 1958—				29th	07 36 10 45 14 40	Excellent Fair Good	F H H
1st	10 00 09 30	Fair Fair	F F	30th	07 50 10 30	Good Fair	F H
3rd	07 31 08 40	Good Good	F F	December, 1958—			
4th	07 55 08 37	Good Good	F H	1st	08 05	Excellent	F
5th	07 55	Fair	F	2nd	08 48	Good	F
6th	08 02 10 44 14 34	Fair Fair Fair	F F H	3rd	07 38 07 32 14 12	Excellent Good Fair	F H H
7th	07 47 09 15 10 45	Fair Fair Fair	F F H	6th	07 54 11 05	Excellent Fair	F H
8th	08 03 10 44	Fair Fair	F H	7th	07 50 10 45 14 50	Good Good Good	F H H
9th	07 48	Fair	F	8th	14 20 14 40	Fair Fair	F F
10th	07 57	Fair	F	9th	14 35	Fair	F
11th	07 35	Fair	F	11th	09 41 10 15	Good Good	F F
12th	08 23	Fair	F	13th	14 22	Fair	F
14th	08 51 11 28	Good Fair	F H	16th	07 59 08 34 14 31	Poor Fair Fair	F F F
15th	08 30 10 30	Fair Fair	F F				

TABLE VII—*contd*

Month & Date	Time of Picture (I S T)	Quality of image	Remarks	Month & Date	Time of Picture (I S T)	Quality of image	Remarks
December, 1958—	H M			December 1958—	H M		
17th	09 58 14 47	Fair Good	F H	26th	09 00 14 20	Good Good	F H
18th	08 02 11 58 14 31	Good Poor Good	F H H	27th	09 07 10 40 14 22	Excellent Poor Fair	F H H
19th	08 55 10 20	Good Good	F F	28th	07 45 08 18 14 25	Good Good Fair	F F H
20th	07 48 08 20	Fair Good	F F	29th	07 13 10 46 15 32	Good Fair Good	F H H
21st	07 37 10 35	Good Fair	F H	30th	07 53 11 51 14 21	Excellent Fair Poor	F H H
22nd	07 59 12 14	Good Poor	F H	31st	08 04 10 13	Good Good	F F
23rd	08 40	Fair	F				
25th	08 08 10 56 14 58	Excellent Fair Poor	F H H				

TABLE VIII

Sunspot Relative Numbers

Month & Date	Time (I S T)	Number of groups	Number of Spots	Image quality classified in 5 grades
July, 1958—	H M			
4th	08 40	11	102	F
5th	08 03	11	165	G
7th	08 00	10	142	G
13th	08 58	10	48	F
17th	08 50	8	50	G
19th	14 17	11	91	F
20th	08 45	11	67	F
21st	07 55	14	78	F
23rd	07 58	8	39	F

TABLE VIII—*contd*

Month & Date	Time (I S T)	Number of groups	Number of spots	Image qua- lity classi- fied in 5 grades
July, 1958—	H M			
24th	08 19	11	108	F
25th	07 48	9	87	F
26th	08 06	8	95	F
28th	08 02	7	123	F
30th	08 45	10	128	F
31st	09 00	10	208	F
August, 1958—				
1st	07 41	11	165	G
5th	10 15	14	83	F
6th	08 40	16	73	G
8th	08 33	9	130	G
11th	10 30	10	83	G
14th	09 55	7	86	G
18th	09 40	9	130	G
24th	07 44	10	114	F
25th	08 47	10	120	G
26th	11 06	10	94	G
28th	08 07	12	106	G
31st	08 10	8	91	F
September, 1958—				
1st	09 45	8	163	G
2nd	08 20	12	172	F
3rd	08 28	13	109	G
4th	08 52	14	90	G
5th	08 01	14	97	G
6th	10 05	14	82	G
7th	08 05	10	113	F
8th	10 01	8	70	G
9th	08 08	7	83	G
10th	07 42	8	82	G
11th	07 47	12	136	G

TABLE VIII—contd

Month & Date	Time (I S T)	Number of groups	Number of spots	Image qua- lity classi- fied in 5 grades
	H M			
September, 1958—				
12th .	08 54	14	132	F
13th	08 16	15	121	F
14th	08 20	12	130	F
15th	07 45	7	124	G
16th	08 20	8	117	E
17th	08 22	9	127	G
18th	08 32	9	109	G
19th .	08 10	6	87	G
20th .	08 58	6	73	G
22nd	08 19	7	78	G
24th .	09 56	9	70	G
25th . .	08 52	9	87	F
27th	08 02	11	80	F
28th	08 10	13	100	G
30th . . .	07 44	13	100	G
October, 1958—				
1st	11 10	11	71	F
2nd .	08 08	12	116	G
3rd .	09 40	12	102	G
8th	08 07	5	31	F
10th	08 45	5	37	G
11th	07 42	9	39	F
13th	08 01	7	51	G
14th	08 34	8	58	F
18th	08 20	9	125	G
20th	08 30	10	151	G
21st	07 57	10	123	G
23rd	08 30	13	83	F
24th	08 43	12	91	F
25th	09 05	12	75	F

TABLE VIII—*contd.*

Month & Date	Time (I S T)	Number of groups	Number of Spots	Image qua- lity classi- fied in 5 grades
	H M			
October, 1958—				
26th .	13 00	12	68	F
27th .	08 40	9	49	F
28th	08 39	12	49	F
29th	08 18	11	105	F
November, 1958—				
1st	10 00	10	116	F
3rd	07 31	10	104	G
4th	07 55	11	131	G
5th	07 55	9	144	F
6th	08 02	7	72	F
7th	07 47	7	37	F
8th	08 03	8	35	F
9th	07 48	9	45	F
10th	07 57	6	15	F
11th	08 35	9	16	F
12th	08 23	7	14	F
14th	08 51	7	15	G
15th	08 30	6	15	F
16th	07 45	8	22	VP
17th	08 40	5	23	F
18th	07 47	5	36	G
23rd	09 58	8	55	F
24th	07 50	12	83	E
25th	07 44	14	92	E
26th	07 43	13	132	G
27th	08 00	12	126	F
28th	08 43	15	173	G
29th	07 36	13	148	E
30th	07 50	11	171	G

TABLE VIII—*cont'd*

Month & Date	Time (LST)	Number of groups	Number of Spots	Image qua- lity class- fied in 5 grades
December, 1958—	H M			
1st	08 05	12	196	E
2nd	08 48	13	163	G
3rd	07 38	12	122	E
6th	07 54	13	164	E
7th	07 50	14	115	G
8th	14 20	11	109	F
9th	14 35	12	118	F
11th	09 41	11	104	G
13th	14 22	8	101	F
16th	07 59	6	79	P
17th	09 58	9	23	F
18th	08 02	9	48	G
19th	08 55	6	37	G
20th	07 48	6	40	F
21st	07 37	7	36	G
22nd	07 59	9	47	G
23rd	08 40	8	48	F
24th	07 45	10	73	E
25th	08 08	11	126	E
26th	09 00	11	139	G
27th	08 07	11	131	E
28th	07 45	12	102	G
29th	07 43	12	87	G
30th	07 53	10	117	E
31st	08 04	8	77	G

TABLE IX
Positions and Classifications of Sunspot Groups

Date*	Time (I S T)	Image quality	b (Heliogra- phic lati- tude) in degrees	l (Heliogra- phic longi- tude) in degrees	Type	l (Number of single spots)
1	2	3	4	5	6	7
July 4, 1958	08 40	3	-19	322	J	06
			+09	307	J	01
			+25	225	E	38
			+09	279	J	02
			+13	260	B	08
			+20	243	|	06
			+05	243	B	20
			-05	225	B	05
			-26	205	A	04
			-24	202	D	04
July 5, 1958	08 03	2	+28	165	A	03
			+09	309	A	01
			+26	222	E	50
			+12	276	J	01
			+11	260	A	11
			+22	237	G	18
			+05	240	G	28
			-05	220	A	05
			+27	203	G	30
			-23	201	G	10
July 7, 1958	08 00	2	+28	159	J	05
			-17	216	A	06
			+26	224	B	31
			+12	283	J	02
			+12	260	B	10
			+22	243	B	31
			+05	214	B	19
			+27	203	F	25
			-23	201	G	11
			+32	158	G	10
July 13, 1958	08 58	3	-15	192	J	01
			-23	131	J	02
			-23	205	E	10
			+28	161	A	10
			-22	127	F	07
			+28	193	A	05
			-14	124	A	06
			+15	102	J	01
			+39	84	J	01
			+07	62	J	04
July 17, 1958	08 50	2	-04	53	J	03
			-24	53	A	01
			-22	24	J	02
			+15	100	J	03
			+07	58	E	21
			-04	53	J	02
			-21	55	B	03
			+15	78	A	01
			-24	98	C	14
			+20	30	B	04

TABLE IX—contd.

1	2	3	4	5	6	7
	H M					
July 19, 1958	14 07	3	-21 +17 -22 +09 -04 -20 +08 +20 -15 +15 -18	128 102 96 60 52 54 38 28 353 322 322	J J D F H A A C D J J	01 01 30 22 08 02 02 18 08 01 01
July 20, 1958	08 45	3	+17 +09 -03 -20 -22 +22 +08 -15 +15 -17 -07	103 59 51 53 94 27 38 352 323 326 316	J F J A G B A D J J J	01 20 03 01 17 09 03 10 01 01 01
July 21, 1958	07 55	3	+17 +09 -03 -20 -22 +20 +08 -16 +16 -17 -07 -13 +22 -18	103 59 51 53 94 28 43 353 321 327 318 05 345 304	J F J A H B A D J J J B A J	01 23 03 01 05 10 01 14 04 01 02 04 05 04
July 23, 1958	07 58	3	+09 -03 -12 +15 -18 -04 -17 +06	56 53 360 319 323 319 303 309	E J A J J A E A	13 01 15 06 02 02 30 01
July 24, 1958	08 19	3	+09 -03 -14 +15 -18 -05 -17 +26 +19 +24 +16	58 50 360 320 324 320 306 23 27 309 268	E A D G H J F A A A H	11 01 12 13 03 01 56 04 03 03 01

TABLE IX—contd

1	2	3	4	5	6	7
	H M					
July 25, 1958	07 48	3	-14 +15 -17 -03 -17 +24 +26 +16 +04	360 321 323 321 306 307 24 267 253	C H J J F A A J B	08 08 03 01 55 02 04 03 03
July 26, 1958	07 48	3	-13 +15 -03 -17 +26 +24 +17 +06	09 319 320 306 23 306 268 252	J B J F B A H H	01 07 01 72 06 02 01 05
July 28, 1958	08 02	3	-13 -03 -15 +15 +07 +20 +27	357 322 311 265 250 282 210	A A F H G A A	03 04 78 13 12 06 07
July 30, 1958	08 45	3	+15 -15 +15 +06 +19 +27 +07 +16 -08 -23	319 310 267 251 286 227 284 226 198 199	A F D D D D A B H J	01 48 10 10 16 19 03 10 09 02
July 31, 1958	09 00	3	-15 +13 +06 +19 +27 +06 +16 -10 -24 -10	310 267 251 286 227 284 226 200 199 222	F G E E E D E E J B	39 22 23 30 29 14 24 14 01 12
August 1, 1958	07 41	2	-15 +16 +06 +21 +27 +07 +15 -10 -25 -10 +08	309 266 251 287 224 284 225 202 201 224 172	B H E E D B E D J D A	17 09 25 21 22 08 23 25 01 13 01
August 5, 1958	10 45	3	+17 +07 +27 +14	265 253 227 228	J G H D	02 09 04 10

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H M					
August 5, 1958	13 45	3	-11 -25 -10 -25 -05 +27 +40 +20 -12 -23	206 200 228 205 196 191 178 146 133 126	J J H B B J D D C A	13 01 01 05 06 05 09 14 03 01
August 6, 1958	08 10	2	+25 +14 -12 -27 -11 +23 -06 +24 +33 +20 -10 -21 +39 -23 -13 +17	233 233 209 204 230 205 196 191 187 146 131 128 166 105 88 98	J J I A J C B B B G C A B J A J	02 02 09 02 01 11 06 05 03 16 05 01 06 01 02 01
August 8, 1958	08 33	2	+25 -11 +24 -05 +44 +38 -13 -15 +21 -10 +17 -23 -14	220 208 201 199 168 165 156 145 143 130 96 102 86	J C D B E B C A F H J J G	02 10 03 05 11 05 14 09 11 08 01 01 16
August 11, 1958	05 00	2	-10 +21 +38 -23 -14 +17 -19 -06 -11 +16	128 141 166 98 84 95 155 104 157 40	H D B E G A B B A A	06 11 03 24 21 01 07 05 02 03
August 14, 1958	09 55	2	+23 -10 -24 -14 +15 +15 +41	141 134 96 85 99 45 56	A B D F B C J	02 03 29 30 05 10 07
August 18, 1958	04 10	2	-27 -13 -09 -10	88 88 72 45	D F B B	04 05 02 06

TABLE IX—contd.

1	2	3	4	5	6	7
	H M.					
August 18, 1958	04 10	2	+18 -12 +24 -23 +10 +07 +20 +19 -18	46 07 04 358 349 322 320 294 325	A H C C B B F B G	02 07 06 01 08 05 27 08 09
August 24, 1958	07 44	3	-14 +10 +18 +23 -14 -17 +19 +08 +08 -07	08 346 322 306 325 296 297 266 255 248	J A D B C B J D B J	04 01 50 08 04 25 04 12 05 01
August 25, 1958	08 47	2	+18 +20 -14 -17 +18 +08 +08 -08 -12 +26	321 306 324 295 296 266 254 246 210 199	E G G C B C B J J J	44 20 06 23 02 14 08 01 01 01
August 26, 1958	11 06	2	+17 +20 -16 -17 +08 -08 -06 -10 +26 -08	323 307 324 295 271 256 245 211 199 195	E E J D B A B J J B	27 23 04 21 03 01 03 01 09 02
August 28, 1958	08 07	2	+17 +20 -18 +08 +10 -08 +27 -12 -11 -18 +25 +16	320 307 300 269 256 202 193 180 244 165 177 190	E E D B A E D A A J A B	05 20 14 03 01 29 15 01 07 01 03 07
August 31, 1958	08 10	3	-08 +27 -08 -17 +16 -22 +36 +18	205 196 187 167 194 176 170 155	E B E J G B J J	21 15 23 01 18 02 09 02

TABLE IX—contd.

1	2	3	4	5	6	7
	H. M					
September 1, 1958	09 45	2	-08 +27 -10 -20 +15 +34 +16 +25	205 192 191 166 191 170 154 179	E B E B G B A A	35 28 31 06 36 10 08 09
September 2, 1958	08 20	3	-08 +27 -10 -19 +13 +35 +16 +26 +11 -18 -25 -14	203 193 188 167 192 168 153 178 127 112 108 94	F D E J F C A D B B A A	23 35 33 01 40 06 04 19 07 02 01 01
September 3, 1958	08 28	2	-08 +27 -09 -18 +13 +36 +27 +12 -16 -25 -13 -07 -38	203 193 188 167 194 168 178 128 114 110 96 88 95	E E E A F B D B A A B B A	20 07 22 01 30 03 10 04 02 01 02 06 01
September 4, 1958	07 52	2	-08 +27 -10 -19 +13 +36 +28 +11 -18 -27 -15 -07 -07 +17	203 193 185 167 197 169 180 131 115 109 98 88 76 81	E J B A E J D B A A D I B E	18 02 09 01 14 01 07 07 04 01 05 11 02 08
September 5, 1958	08 01	2	-08 +27 -10 -19 +13 +34 +28 +12 -27 -15 08 -09 +17 +08	202 194 185 167 196 171 179 129 106 95 86 76 75 151	F J B A D J J B A D G J D J	13 02 04 01 15 01 08 08 01 04 24 03 09 04

TABLE IX—contd.

1	2	3	4	5	6	7
	H M					
September 6, 1958	10 05	2	-08 +27 +15 +34 +28 +12 -26 -14 -08 -09 +18 +08 -11 +20	201 193 197 170 178 128 108 94 85 76 75 151 166 39	D J D J J B A G D J G J A B	06 01 12 01 03 08 01 09 20 04 09 03 02 03
September 7, 1958	08 05	3	+34 -09 +08 +12 +12 -15 -09 +17 -08 +20	168 163 152 128 99 91 86 75 73 34	J C J B A E E D C D	01 12 01 02 02 22 35 19 04 15
September 8, 1958	10 01	2	+33 -15 -10 -08 -17 +08 -10 +21	170 93 88 75 76 153 165 34	J E E J C J J D	01 14 19 03 12 01 03 17
September 9, 1958	08 08	2	-15 -10 -08 +17 +21 +10 -10	92 89 75 76 35 92 12	E E A E E B B	22 16 01 17 22 03 02
September 10, 1958	07 42	2	-16 -10 +17 +21 +07 -11 +09 +09	92 88 73 35 96 13 55 15	E E E D B B A A	17 21 12 20 02 03 05 02
September 11, 1958	07 47	2	-16 -10 +18 +21 +08 -12 +09 +10 -08 +17 +32 -32	93 85 72 33 95 12 55 10 02 342 340 349	E E J E A A A A A A A J	28 31 16 27 09 11 04 04 01 03 01 02

TABLE IX—contd

1	2	3	4	5	6	
	H M					
September 12, 1958	08 54	3	+09 -10 -17 +18 +09 -10 +22 -11 +11 -10 -31 +32 +14 -15	99 92 91 75 55 45 30 12 05 02 350 340 332 327	C E E D B A D D D B A G A D D	08 17 18 09 06 01 27 21 06 01 08 01 06 03
September 13, 1958	08 16	3	-16 -09 +18 +21 +09 -12 +12 +11 +15 +32 -32 -10 -16 +20 -23	89 91 72 30 97 12 56 05 334 340 347 42 327 44 26	D E J B J F B B D A E J D B B	07 13 06 12 04 19 03 02 17 01 13 04 10 03 07
September 14, 1958 .	08 20	3	-16 -09 +17 +21 -12 +11 +14 -32 -10 -16 +20 -23	89 91 73 30 10 05 334 346 42 316 43 24	B E C C D A E G B F B A	04 09 03 13 32 02 26 12 07 14 04 04
September 15, 1958 .	07 45	2	+19 -09 +14 -32 -10 -16 -23	35 10 334 346 46 316 26	B D D G B F B	05 40 37 08 11 15 08
September 16, 1958 .	08 20	1	+21 -12 +15 -32 -10 -18 -22 +23	34 11 344 347 42 312 24 295	A C C H A E A A	04 23 27 07 08 29 08 11

TABLE IX—contd

1	2	3	4	5	6	7
	H M					
September 17, 1958	08 22	2	-10 +34 -22 -10 -32 +15 -17 +23 +06	45 40 26 10 346 331 314 294 281	A A B D G E F D A	01 01 08 23 09 28 49 05 03
September 18, 1958	08 32	2	+34 -10 +16 -32 -17 -22 +23 +08 +13	41 11 333 346 314 25 294 282 260	A C E D F B D B B	01 10 21 05 42 05 17 03 05
September 19, 1958	08 10	2	-11 +16 -32 -17 +23 +13	08 333 310 314 295 260	B E E F D B	05 16 07 33 16 10
September 20, 1958	08 58	2	-12 +15 -32 -17 +23 +12	06 338 341 306 294 263	J D D F B B	01 06 04 37 15 10
September 22, 1958	08 19	2	+15 -34 -17 +21 +11 -05 -19	340 340 311 293 259 207 193	J D F D C G H	02 02 14 40 13 06 01
September 24, 1958	09 56	2	-17 +22 +13 -05 -19 +28 -12 +18 -12 -22	310 292 264 208 189 244 230 176 168 173	F D B G G B A J D A	08 12 03 12 09 09 03 03 10 01
September 25, 1958	08 52	3	-17 +22 -06 -19 +29 -12 +18 -10 -22	310 295 209 190 245 233 176 169 172	J B G G C A A B A	07 16 11 06 21 04 03 14 05

TABLE IX—contd

1	2	3	4	5	6	7
	H M					
September 27, 1958	08 02	3	+30 -06 -18 +18 -23 -08 +09 -14 +27	241 208 189 177 169 167 254 143 147	D H G D B E C B B	07 08 08 05 12 26 09 02 03
September 28, 1958	02 40	2	-18 +30 -07 +18 -08 -22 -13 +08 +27 +14 -09	188 240 208 177 165 170 143 155 147 225 182	D C E D F B B B D B B	07 05 05 07 23 08 04 13 20 03 05
September 30, 1958	07 44	2	-18 +32 -07 +17 -11 -22 +07 +27 +13 -11 -13 -08 +17	189 238 210 182 163 176 158 148 228 184 120 102 88	G J J J D B C D A B A A A	07 02 03 03 21 12 18 21 02 04 02 03 02
October 1, 1958	11 10	3	-18 -07 +18 -11 -21 +08 +27 -17 -08 +17 +01	185 207 182 167 173 158 151 93 95 87 161	H J J G A D G A A A A	06 02 01 16 04 08 15 05 04 03 07
October 2, 1958	08 08	2	-06 -19 +17 -12 +04 +06 +28 -20 +11 -08 -15 +18	206 186 180 162 166 157 148 126 102 96 91 84	H G H G E E F B B B B B	02 05 02 18 17 29 14 02 04 09 07 07

TABLE IX—*contd*

1	2	3	4	5	6	7
	H M					
October 3, 1958	09 40	2	-18 -05 +18 -12 +06 +28 -08 -20 +18 +04 +12 -16	187 205 181 162 157 147 96 116 89 166 106 90	E J F F B D C A A B B B	04 01 03 13 17 10 15 03 01 18 12 05
October 8, 1958	08 07	3	+11 -06 -15 +18 +13	102 108 112 38 24	C J B C D	05 03 03 12 08
October 10, 1958	08 45	2	+11 +17 +13 -17 +04	96 39 23 63 354	B D E B B	03 14 05 07 08
October 11, 1958	07 42	3	+17 +13 -17 +06 +19 -11 +25 -16 -27	42 27 60 356 336 337 310 310 306	B C C A A A A J J	13 08 07 02 01 02 02 03 01
October 13, 1958	08 01	2	+16 +13 -12 +24 -16 -28 +22	41 26 340 300 307 297 351	A C B D E E J	06 05 04 02 10 22 02
October 14, 1958	08 34	3	+16 +13 -12 +34 -17 -30 +12 -08	40 27 341 300 307 297 293 255	A B B E E E B J	01 03 08 05 14 22 04 01
October 18, 1958	08 20	2	-14 +24 -18 -28 +20 -03 -09 -04 -10	354 296 304 297 282 257 327 291 231	J D C C D F B B D	08 06 13 12 27 26 15 05 13

TABLE IX—contd

1	2	3	4	5	6	7
	H M					
October 20, 1958	08 30	2	+24 -18 -28 +19 -03 -09 -10 -07 +20 -19	295 303 296 282 256 326 230 205 187 183	J D H E F J E J B J	01 10 07 34 35 07 50 01 04 02
October 21, 1958	07 57	2	-10 -17 -30 +25 +20 -05 -12 -07 +18 -20	324 305 298 291 283 258 232 207 190 173	J C J J F F F J B H	01 05 02 01 27 45 34 01 06 01
October 23, 1958	08 30		+25 -18 -29 +20 -06 -12 -07 +18 -20 -03 -09 -02 +28	293 301 297 282 257 231 201 180 181 204 286 218 139	J B J G F F B B J A A A J	01 02 02 09 20 34 02 04 01 02 03 02 01
October 24, 1958	08 43	3	+19 -06 -13 -09 +17 -21 -02 +27 +13 +07 -32 -16	288 260 233 205 191 186 221 198 225 185 167 142	J H F A A J A A A A A J	01 08 48 06 06 01 02 01 08 06 02 02
October 25, 1958	09 50	3	-06 -12 +14 -01 -07 +16 +06 -20 +30 -16 +27 -16	257 231 223 221 207 187 183 182 189 140 120 122	G E B B J J B H J J A A	06 34 10 03 01 07 07 01 01 03 01 01

TABLE IX—contd

1	2	3	4	5	6	7
	H M					
October 26, 1958	13 00	3	-04 -12 -07 +17 -20 +31 +14 +06 -16 -14 -07 -32	254 231 206 190 181 137 225 184 142 126 169 161	J C J B J B C H B B A	02 22 01 05 02 02 06 13 04 04 05 02
October 27, 1958	08 40	3	-12 -07 -20 +30 +14 +06 -16 -14 -11	230 206 180 134 222 183 141 123 90	E J H J B C J H J	18 01 04 01 02 13 04 05 01
October 28, 1958	11 39	3	-12 -07 -20 +31 +07 -15 -14 -11 -06 +08 +43 +19	228 205 178 136 187 138 120 90 177 73 78 78	E A J A C A E J A J A A	05 02 03 04 06 05 14 03 03 02 01 01
October 29, 1958	08 18	3	-07 +09 -20 -06 -18 -20 -15 -12 +15 +42 +08	207 190 180 177 140 129 123 89 84 77 69	A C J C B B E H A J E	01 20 03 12 11 03 39 04 01 01 10
November 1, 1958	10 00	3	-10 +08 +43 -13 +11 +37 +12 +21 +17 -15	84 73 71 124 106 100 89 68 49 69	C G A D A B A A A E	08 25 03 29 03 08 04 04 06 26
November 3, 1958	07 31	2	-11 +08 -13 +12 +36	84 73 121 104 99	D E B J C	06 26 23 01 14

TABLE IX.—contd

1	2	3	4	5	6	7
	H M					
November 3, 1958	07 31	2	+12 +15 +16 -17 +32	118 47 26 70 354	J J B F A	01 03 04 24 02
November 4, 1958	07 55	2	-12 +08 -13 +12 +37 +16 -17 +12 +33 +37 +10	84 73 121 103 99 47 71 118 354 48 30	D E B A B B F A J B A	05 26 19 01 17 02 38 01 04 17 01
November 5, 1958	07 55	3	-12 +07 -13 +36 +16 +33 +39 +10 -15	88 76 123 103 47 353 22 32 71	J C J A A J C A F	03 26 09 06 04 06 23 02 36
November 6, 1958	08 02	3	+35 -12 +38 +06 -16 +10 +33	100 88 76 75 65 31 49	A J E D F A J	04 01 17 15 31 01 03
November 7, 1958	07 47	3	-12 +07 -16 +34 +38 +16 -34	88 75 68 349 77 41 41	J B E H D J A	01 05 17 02 08 02 02
November 8, 1958	08 03	3	-12 +08 -16 +34 +38 +16 +23 -20	88 75 68 349 77 41 51 358	J B E J E E A B	01 04 11 02 08 07 01 01
November 9, 1958	07 48	3	+13 -19 +34 +38 +17 +12 -40 -30 +21	80 82 349 82 47 27 345 294 292	E E A E B A A A A	07 08 05 07 08 04 02 03 01

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H M					
November 10, 1958	07 57	3	+16 +11 +35 +21 -30 -03	39 30 347 292 291 261	C A A A A J	03 08 01 01 01 01
November 11, 1958	08 35	3	+34 +11 -30 +22 -03 -07 +14 -17 +27	344 30 299 292 265 31 229 300 273	B C A A J A A A A	04 05 01 01 01 01 01 01 01
November 12, 1958	08 23	3	+12 -30 +20 -05 -20 +27 +13	31 291 294 266 302 274 342	H J A J A A B	03 01 01 01 01 01 06
November 14, 1958	08 51	2	+12 +05 -09 -30 -04 -10 -16	343 339 304 291 266 240 244	B A C J J B A	02 01 05 01 01 04 01
November 15, 1958	08 30	3	-30 -04 -09 -11 +17 +06	290 268 305 235 258 198	J H B A A A	01 02 05 02 03 02
November 16, 1958	07 45	5	-30 -03 -10 -11 +07 -13 +15 +19	195 268 305 244 195 323 268 238	J C D A J A A B	01 05 02 03 01 02 02 06
November 17, 1958	08 40	3	-10 -11 +10 +15 +20	306 243 197 273 236	J B J B D	01 04 01 07 10
November 18, 1959	07 47	2	+06 -05 +15 +22 -14	196 241 270 234 155	J A A C J	01 09 06 18 02
November 23, 1958	09 58	3	+06 -05 -10	200 186 165	J C E	01 12 18

TABLE IX—contd

1	2	3	4	5	6	7
	H. M					
November 23, 1958	09 58	2	-12 +17 -15 -26 -16	151 146 140 126 106	D H A J C	14 02 03 01 04
November 24, 1958	07 50	1	+06 -06 -12 -13 +17 -15 -26 -15 +18 +32 +09 -17	200 186 165 148 146 138 123 104 125 95 89 82	J B E B H A J C B A A A	01 13 24 13 04 03 03 07 08 02 03 03
November 25, 1958	07 44	1	+06 -06 -12 -13 +17 -15 -26 -15 +18 +35 +11 -17 +06 +40	199 187 165 150 144 138 123 104 128 94 89 78 76 68	J B F D H A J D B E B C A A	01 07 22 11 02 03 01 08 10 10 05 09 02 01
November 26, 1958	07 43	2	+07 -13 -14 +18 -14 -26 -16 +22 +37 +12 -17 +08 +42	200 166 151 147 141 125 108 139 90 90 83 78 63	A E A A A J D D B A F A A	01 17 12 04 06 03 13 31 06 08 26 02 03
November 27, 1958	08 00	3	-13 -14 +17 -26 -15 +20 +35 +13 -17 +08 +42 +28	166 152 147 123 105 31 90 92 80 79 60 122	F A B J E E J C F A A B	17 07 08 01 15 28 03 10 30 01 01 05

TABLE IX—contd

1	2	3	4	5	6	7
November 28, 1958	H M 08 43	2	-13 -15 +16 +25 -26 +30 -15 +14 +34 +07 -17 +40 +13 +16 -09	164 150 147 131 122 121 105 93 92 83 77 65 54 32 26	F A B F J A D D B J F J A A A	13 03 04 24 01 06 25 15 08 04 61 01 05 01 02
November 29, 1958	07 36	1	-13 +16 -26 -15 +19 +35 +15 -17 +07 +40 +14 +17 -09	165 148 122 107 129 92 93 77 83 63 51 33 25	G J J D E A C F J B B A J	08 01 01 17 18 03 23 48 07 06 10 02 04
November 30, 1958	07 50	2	-26 -14 +20 +15 -17 +06 +41 +15 +18 -09 +09	121 112 131 95 77 83 60 54 30 27 42	A J F C F A A J A A A	03 07 18 35 64 07 02 14 02 13 06
December 1, 1958	08 05	1	-14 +20 +15 -17 +06 +40 +15 +18 -09 +11 +07 -20	112 131 95 77 84 60 54 33 27 45 28 359	J E G F B A C B C B B J	06 15 32 63 14 02 16 03 13 17 11 04
December 2, 1958	08 48	2	+21 -14 +16 +06 +35 -16 +15 +11 -10	128 109 93 85 82 76 50 42 30	F H C D A F D D G	08 06 22 11 02 48 12 21 13

TABLE IX—contd.

1	2	3	4	5	6	7
	H M					
December 2, 1958	08 48	2	-07 -14 -21 -15	24 360 354 331	C A C A	13 01 05 01
December 3, 1958	07 38	1	-14 +16 -13 +06 +15 -09 +11 +07 -21 +35 -15 +13	114 95 77 86 53 26 45 25 355 81 331 334	J B F H G G D D G A A A	03 11 44 07 07 05 15 19 08 01 01 01
December 6, 1958	07 54	1	-16 +13 +11 -09 +08 -03 -07 -21 -13 -09 +15 -04 +19	74 60 47 26 25 10 09 357 338 315 310 286 286	F J J H F D D A J J E F A	08 01 06 13 33 12 34 01 02 02 40 11 01
December 7, 1958	07 50	2	-16 +13 +11 -09 +08 +03 -08 -22 +27 -13 -11 +15 -06 +10	73 58 47 30 27 11 10 356 356 333 314 311 282 278	J J J J F D F H A J J E F J	01 01 02 02 16 03 23 01 01 01 03 35 25 01
December 8, 1958	14 20	3	+08 -22 +03 -08 -11 +14 -03 +10 -33 -08 -20	26 365 11 10 313 311 286 276 284 276 256	E G B F J F E J A E E	08 22 02 15 06 29 09 02 03 14 07
December 9, 1958	14 35	3	+11 -22 -03 -08 -12	30 359 10 17 317	G G B E B	09 08 02 14 08

TABLE IX—*contd*

1	2	3	4	5	6	7
	H M					
December 9, 1958 .	11 35	3	+14 -03 +08 -30 -08 -22 +09	313 288 280 290 279 263 243	E E J B E E A	25 17 02 06 15 10 02
December 11, 1958	09 41	2	-22 -12 +14 -03 +09 -31 -08 -22 +09 +28 +18	356 317 316 284 279 290 280 265 242 290 217	J B C F B B E D D B A	02 07 12 26 06 04 24 12 06 04 01
December 13, 1958 .	14 22	3	-11 +14 -03 -08 -20 +09 +26 +20	317 316 290 281 264 242 296 217	J J F E D D A C	02 04 26 28 22 09 01 09
December, 16, 1958	07 59	4	-03 -08 -18 +09 +22 +18	284 279 262 242 214 182	E B E D E A	14 11 14 13 26 01
December 17, 1958	09 58	3	-03 -09 -19 +08 +22 +16 -21 +18 -17	284 286 261 241 214 182 238 130 152	B E B H E A A A B	09 10 09 09 21 06 01 02 06
December 18, 1958 .	08 02	2	+01 -09 -17 +07 +22 +16 -22 +19 -15	282 289 268 242 215 179 237 135 158	A A A H E A A H D	02 01 01 04 21 02 01 04 12
December 19, 1958 .	08 55	2	+07 +22 +19 -16 -23 +08	242 214 133 157 119 174	A D H D J A	02 16 04 11 02 02

TABLE IX—contd

1	2	3	4	5	6	7
	H M					
December 20, 1958	07 48	3	+22 -22 +18 -16 -23 +12	214 238 132 157 116 111	E B H D H A	18 02 02 12 04 02
December 21, 1958	07 37	2	+22 +18 -17 -23 +12 +08 -21	214 135 158 117 111 146 88	E H B J A A A	12 03 09 04 02 03 03
December 22, 1958	07 59	2	+22 +19 -17 -22 +12 +18 -17 +12 +26	214 134 157 115 105 146 76 65 114	D H C J A A H F A	02 02 10 06 03 06 01 13 04
December 23, 1958	08 40	3	+23 +19 -17 -22 +12 +08 -17 +13	210 194 157 114 105 146 76 69	J H B J A A F D	03 02 05 04 02 05 20 07
December 24, 1958	07 45	1	+18 -17 -22 +11 +08 -17 +13 +07 +21 -22	132 154 114 102 148 76 66 117 54 64	C A B A B F D A J A	04 02 04 01 04 40 12 04 01 01
December 25, 1958	08 08	1	+18 -24 +09 +08 -17 +13 +11 +18 -24 +21 +07	133 114 104 149 76 66 115 54 64 79 43	H B A B F E A B A A C	03 03 05 07 67 17 02 08 03 02 09
December 26, 1958	09 00	2	+18 +11 +08 -17 +13 +13 +19	132 102 147 74 62 114 50	H B C F D C D	01 12 07 46 23 15 15

TABLE IX—contd

1	2	3	4	5	6	7
	11 M					
December 26, 1958	09 00	2	-22 +21 +07 -04	62 72 39 19	A A D J	04 03 10 01
December 27, 1958	08 07	1	+18 +10 +08 -17 +13 +13 +17 -22 +07 -04 +26	132 104 147 74 62 114 47 62 39 19 101	H B C F D C C A D J A	01 11 04 40 23 09 22 01 16 03 01
December 28, 1958	07 45	2	+18 +10 +08 -17 +13 +13 +17 -22 +07 -04 +26 +07	131 104 147 74 62 114 47 61 36 18 101 119	J B J F C C D B H A B A	01 11 02 40 08 03 13 06 07 03 05 03
December 29, 1958	07 43	2	+18 +09 -18 +12 +12 +18 -22 +07 -05 -26 +08 +17	133 106 76 64 115 46 63 36 18 104 123 85	J B F C B B B A H A A A	01 07 34 17 02 11 03 05 02 01 02 02
December 30, 1958	08 30	1	+09 -15 +13 +13 +18 +06 -05 +19 +12 +19	105 75 63 117 44 36 18 86 95 344	B F D J C H J B A A	04 46 21 01 25 07 02 05 03 03
December 31, 1958	08 04	2	-15 +13 +18 +06 -04 +19 +12 +20	75 65 46 37 19 87 95 344	E D C H J B A B	33 16 10 02 02 03 03 08

PART II

Magnetic observations for the Second Half of 1958

Brief descriptions of the absolute instruments, the variometers and the system of observations are available in Bulletins Nos CXXXII and CXXXVI of this observatory. The data given in this bulletin are derived mainly from the records of La Cour instruments, but in case of failure of La Cour records, Watson magnetograms have been used.

The adopted values of the scale coefficients for the Horizontal Force, Vertical Force and Declination magnetographs for the second half of 1958 were 29r/cm, 115r/cm and 14'/cm respectively.

PART III

Ionospheric observations for the Second Half of 1958

A description of the system of ionospheric observations at Kodaikanal together with a brief description of the Ionosphere Recorder has been given in Bulletin No 146 of this observatory. The present Bulletin contains half-hourly values of 11 ionospheric parameters viz foF₂, foF₁, foE, foEs, fbEs, fmm, h'F₂, h'F, h'E, h'Es and M(3000)F₂ with symbols and terminology as recommended by the Special Committee on worldwide Ionospheric Soundings to the URSI/AGI in its first report (Brussels, September 2, 1956). The f-plots of the ionospheric parameters for Regular World Days and Special World Intervals during the second half of 1958, prepared under the I G Y Programme are also included in this Bulletin.

KODAIKANAL OBSERVATORY,
July 19, 1960

M. K. VAINU BAPPU,
Director

IONOSPHERIC DATA

Characteristic foF₂
 Unit Mc
 Month July 1958

TABLE I
 Ionospheric Data
 75.0° E Mean Time

Latitude . 10 2° N
 Longitude . 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	U9 8F	F	F	8 4F	5 3	8 0	10 6	12 0	12 3	C	C
2	U7 8F	8 9	8 6	F	F	U8 6F	8 8	10 5	10 8	10 9	11 0	11 1
3	8 3F	F	F	U8 3F	7 3	5 3	7 7	10 3	U11 7S	12 3	12 3	11 7
4	U9 3S	F	U7 3S	F	F	F	7 0	9 6	11 3	12 0	11 8	11 2
5	F	F	F	F	F	8 1	U9 1S	10 7	11 3	11 9	12 1	11 7
6	F	F	F	F	8 1	U6 4S	8 0	10 3	11 1	11 8	11 7	10 8
7	F	F	F	F	F	4 8	8 3	10 8	11 7	11 4	11 0	10 4
8	F	F	F	8 1F	F	F	7 7	10 0	10 7	10 4	10 3	10 2
9	8 0	7 0	S	5 7F	F	F	6 6	9 1	10 6	12 0	11 8	12 3
10	10 3	9 2	7 9	6 8	5 3	2 6	7 6	10 6	12 2	U12 2R	11 5	11 0
11	F	U8 6F	8 5	8 4	8 3	3 7	U7 2S	10 0	11 5	11 7	U11 OR	10 0
12	F	F	8 5	8 3	U9 6S	8 9	8 1	10 0	10 8	U11 IR	11 7	11 5
13	F	F	FS	U6 8S	FS	J6 1S	7 4	10 6	11 6	11 3	10 2	9 9
14	F	F	F	F	F	U5 7S	7 5	10 1	11 4	11 4	11 3	10 8
15	F	FS	U7 4S	6 8	U7 3HS	U5 2S	6 8	9 4	10 5	12 0	12 1	11 5H
16	8 1	8 5	U7 1S	6 4	7 3	U7 2S	7 3	9 6	11 0	10 8	10 2	9 4
17	F	F	F	F	F	U4 9F	6 9	10 0	J11 2R	11 5	10 0	9 2
18	C	7 5	J7 4R	7 5	6 7	3 9	6 9	9 6	11 2	11 5	12 8	12 4
19	U8 3F	7 8	7 0	U6 4S	4 9	2 9	7 0	9 4	11 0	11 0	10 8	10 0
20	8 4	U7 5S	J6 4S	5 0	5 0	4 0	6 6	U9 7S	10 6	12 0	12 6	U11 OW
21	9 0	8 2	7 7	U7 7S	U8 1S	6 7	C	A	11 0	11 8	U12 OR	11 6
22	S	U8 4S	4 4	2 7	F	U3 0F	7 0	10 1	11 2	12 5	C	C
23	F	U9 3F	F	F	8 8F	7 2F	F	10 8	11 5	J12 IR	12 2	11 8
24	F	F	F	F	7 4	U5 3S	U7 3S	10 2	11 1	11 7	11 3	10 7
25	F	F	F	F	F	F	U8 5F	10 7	11 4	11 2	10 6	10 2
26	F	F	F	F	7 6	5 4	U7 5S	10 4	11 4	C	12 8	11 8
27	F	F	F	F	6 6	6 2F	8 1	C	C	C	C	9 8
28	F	F	F	F	F	7 8	8 2	11 0	12 1	13 0	13 2	U13 2R
29	F	F	F	F	F	F	7 9	10 7	11 8	12 7	12 1	11 6
30	F	F	F	F	U9 5F	8 1	8 9	10 8	11 4	12 1	11 6	10 8
31	F	F	F	F	F	8 5	9 6	11 2	11 8	U11 8R	10 6	9 9
Mean	8 3	8 4	7 4	6 8	7 4	5 8	7 7	10 2	11 3	11 7	11 5	10 9
Median	8 3	8 4	7 4	6 8	7 4	5 6	7 6	10 3	11 3	11 8	11 6	11 0
Count	9	12	12	14	17	26	29	29	30	29	28	29

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foF₂
Unit Mc
Month July 1958

TABLE I
Ionospheric Data
75° E Mean Time

Latitude 10° 2' N
Longitude 77° 5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	10 2	10 2	10 3	10 6	10 3	U9 4 ^r	U9 1 ^r	F	F	1
11 1	11 4	11 5	11 6	11 9	12 1	U11 5 ^s	10 3	F	F	F	F	2
10 9	10 5	10 7	11 2	11 5	U11 5 ^s	U11 7 ^s	11 4	10 6	10 4	10 9	U9 8 ^r	3
10 6	9 9	9 8	10 1	10 5	10 9	10 9	U10 3 ^r	F	F	F	F	4
11 6	11 9	12 4	12 4	U12 5 ^r	12 6 ^h	U11 5 ^s	F	F	F	F	F	5
10 6	10 7	11 1	11 7	11 9	12 5	12 1	11 1 ^r	F	F	F	F	6
10 0	9 8	10 0	10 6	11 0	A	10 8	9 9 ^r	U7 8 ^r	F	F	F	7
9 8	9 5	9 4	10 5	10 8	10 9	11 4	10 7	F	F	F	8 0 ^r	8
12 6	13 3	13 3	13 2	12 9	U12 5 ^r	U11 6 ^s	U9 4 ^s	8 9	8 9	9 9	U10 3 ^s	9
10 7	10 8	11 9	12 1	12 0	U11 9 ^s	U11 8 ^s	FS	F	F	F	C	10
9 5	9 5	10 5	10 7	10 2	10 7	11 1	10 8	9 3	U8 5 ¹	8 9	F	11
11 7	11 6	11 8	12 0	12 3	12 4	12 9	11 0	F	F	F	F	12
10 3	10 5	11 4	12 3	12 5	12 5	12 2	U11 8 ^s	10 7	U9 6 ^s	8 7	F	13
10 3	9 9	10 0	10 0	10 3	U11 4 ^s	J11 9 ^s	10 9	U9 6 ^s	F	F	F	14
9 6	9 6	10 0	10 2	10 3	10 7	11 0	10 1	J10 0 ¹	U9 8 ^s	10 1	FS	15
9 4	9 6	9 9	U10 0 ^r	11 0	C	12 2	11 1	F	F	F	F	16
9 7	10 5	11 0	11 4	11 5	11 6	11 4	12 6	F	F	F	F	17
11 7	10 3	11 0	11 8	U11 6 ^s	J12 3 ^r	U11 8 ^s	11 5	10 8 ^r	U9 6 ^s	U9 4 ^s	U8 7 ¹	18
9 7	9 7	10 8	J11 2 ^r	J12 2 ^r	12 6	13 1 ^h	13 0	12 4	U11 3 ^s	10 5	U9 6 ^s	19
9 9	9 6	10 0	10 5	10 9	11 1	J11 8 ^s	U11 5 ^s	11 0	10 3	U9 4 ^s	U9 6 ^s	20
10 6	10 7	11 6	12 2	12 7	12 7	12 9	U11 8 ^s	F	F	F	U9 0 ^r	21
C	13 5	13 2	12 5	11 6	11 4	U11 6 ^s	11 4	19 6 ^s	F	F	F	22
11 4	11 3	10 2	9 9	10 0	10 7	11 2	10 6	F	F	F	F	23
10 5	10 8	11 3	11 0	11 4	12 1	U12 0 ^s	U11 6 ^s	10 0 ^r	FS	F	F	24
9 6	9 5	10 0	10 4	11 1	J12 1 ^s	J12 0 ^s	10 6	U9 3 ^r	9 0	F	F	25
11 0	11 0	11 3	11 6	11 5	11 3	10 9	10 1	8 9	7 4 ^r	F	F	26
9 4	9 6	10 2	11 2	11 3	11 6	11 2	10 2	F	F	F	F	27
12 8 ^h	11 4	11 2	11 1	11 1	11 6	U11 9 ^s	11 0	F	F	F	F	28
10 2	9 8	9 8	10 5	10 8	11 4	U12 0 ^s	11 4	F	F	F	F	29
10 6	C	10 6	10 6	10 4	10 2	10 0	8 3	F	F	F	F	30
9 7	10 0	10 0	9 7	10 1	10 6	11 0	U9 6 ^s	8 6	8 9	9 1	8 6	31
10 5	10 6	10 9	11 1	11 3	11 6	11 6	10 8	9 8	U9 4	9 7	U9 2	Mean
10 5	10 5	10 8	11 1	11 3	11 6	11 6	10 9	9 6	U9 4	9 4	U9 3	Median
29	29	30	31	31	29	31	29	16	12	9	8	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo F2
Unit Mc
Month July 1958

TABLE I
Ionospheric Data
75° E Mean Time

Latitude 10° N
Longitude 77° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	U9 6F	F	F	6 7	6 3	9 4	11 3	12 1	12 3	C	C
2	8 4	8 8	U8 7F	F	F	8 1	9 9	11 0	11 1	11 0	10 9	11 0
3	8 3F	F	F	U8 1F	6 0	6 5	9 1	10 9	12 0	12 5	12 2	11 2
4	U8 9F	U7 9F	U6 3F	F	F	F	8 7	10 6	11 6	11 7	11 6	10 7
5	F	F	F	U6 7F	U7 7F	8 1	9 8	11 4	11 5	11 9	11 9	11 6
6	F	F	F	F	U7 2S	6 4	9 3	10 8	11 6	11 8	11 1	10 9
7	F	F	F	F	6 4F	6 1	9 7	11 1	11 6	11 3	10 6	10 2
8	F	F	F	F	F	U5 6F	8 9	10 7	10 7	10 4	10 1	10 0
9	U7 3S	U6 8S	U7 3S	4 4F	F	4 3	8 2	9 8	11 6	11 8	12 0	12 4
10	U9 6S	8 5	7 5	6 2	4 1	5 1	9 5	11 5	12 2	12 0	11 1	10 8
11	F	8 5	8 6	8 5	6 6	U5 2S	9 1	11 0	11 5	11 5	10 3	9 7
12	F	U8 6F	U7 9F	8 6	U9 6S	7 9	U9 1S	10 6	11 3	11 5	11 6	11 5
13	F	F	FS	U6 6S	6 4	6 4	U9 1S	11 5	11 7	10 7	9 8	10 0
14	F	F	F	F	F	U5 8S	U9 1S	U11 1R	11 6	11 5	10 8	10 6
15	FS	FS	6 8	6 7	U6 8S	U5 3S	8 2	10 6	11 3	12 3	11 8H	U10 1W
16	8 1	7 9	6 7	6 5	8 6	6 2	9 2	10 3	10 9	10 7	9 6	9 4
17	F	F	F	F	U6 4F	5 3	8 5	10 8	11 6	11 2	9 0	9 5
18	F	7 4	7 6	7 4	J5 2S	4 7	8 8	10 4	11 7	C	12 6	11 8
19	U8 2F	7 6	U6 5S	6 4	3 7H	4 7	8 6	10 4	10 9	10 8	10 3	9 8
20	U7 8S	U7 0S	U5 7S	5 0	4 4	4 8	8 4	10 6	11 5	12 2	U12 0R	U10 2W
21	U8 5S	8 0	7 4	U8 1S	U7 5S	6 3	8 9	10 8	11 4	12 2	12 0	11 0
22	8 8	F	3 1	2 8	2 8	4 5	9 1	10 3	11 8	12 8	C	C
23	U9 9F	F	F	F	U8 0F	F	F	10 9	J12 2R	12 1	11 9	11 4
24	F	F	F	F	5 6	5 3	9 2	10 8	11 1	11 6	U10 8R	10 6
25	F	F	F	F	F	F	U9 7F	11 1	11 4	10 8	10 5	10 0
26	F	F	F	F	7 0	5 5	9 2	11 3	J12 0R	C	12 2	11 3
27	F	F	F	6 8	6 4	U6 5F	9 2	C	C	C	9 8	9 7
28	F	F	F	F	8 5	6 8	U9 7S	11 9	13 0	13 0	13 3	U13 2R
29	F	F	F	F	F	6 1	U9 6S	11 4	U12 0R	12 5	12 0	10 8
30	F	F	F	U9 8F	U9 1S	7 4	10 0	11 4	11 8	11 9	11 3	10 4
31	F	F	F	8 3	F	8 5	10 5	11 6	12 0	11 0	10 3	9 8
Mean	8 5	8 0	6 9	6 9	6 6	6 1	9 2	10 9	11 6	11 7	11 2	10 7
Median	8 4	8 0	7 3	6 7	6 6	6 1	9 2	10 9	11 6	11 8	11 1	10 6
Count	11	12	13	17	23	28	30	30	30	28	29	29

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic fo F₂
Unit Mc
Month July 1958

TABLE I
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	10 4	10 2	10 1	10 4	10 6	9 5	9 5 ^F	F	F	F	1
11 4	11 4	11 6	11 6	12 1	U11 8s	10 8	U9 5 ^F	F	F	F	F	2
10 6	10 5	11 1	11 1	U11 6s	U11 7s	U11 7s	11 0	10 3	10 9	U10 4 ^F	U9 6s	3
10 4 ^{II}	9 7	9 9	10 3	10 7	10 9	10 6	F	F	F	F	F	4
11 8	12 0	12 5	12 4	12 6	12 4	U10 6s	F	F	F	F	F	5
10 4	10 8	11 5	11 8	12 3	12 5	U12 0s	F	F	F	F	F	6
9 9	9 9	10 3	10 9	A	U11 0s	U10 8s	8 5 ^F	U8 5 ^F	F	F	F	7
9 5	9 2	9 8	10 8	11 0	11 0	11 3	U9 4 ^F	F	F	F	8 7	8
12 9	13 2	13 2	13 1	U12 8R	U12 2s	U10 9s	8 7 ^F	F	U9 4s	U10 2s	U10 3s	9
10 7	11 3	12 1	12 0	11 9	U11 8s	U11 6s	F	U9 3 ^F	U10 2 ^F	F	F	10
9 4	9 8	10 8	10 3	10 4	10 8	11 2	U9 7s	F	U8 6 ^F	FS	F	11
11 8	11 7	U11 9s	12 0	12 5	12 7	U12 3s	U9 6 ^F	F	F	F	F	12
10 5	10 8	U11 6s	12 4	12 6	12 5	J12 1s	11 3	10 3	U9 1s	F	F	13
10 0	10 0	9 8	10 1	10 7	U11 6s	U11 6s	J10 0s	U8 8s	F	F	F	14
9 5	9 8	10 3	U10 1R	10 4	10 8	10 7	U9 9s	J9 8s	U9 7s	U10 2 ^F	8 3	15
9 4	9 7	10 0	10 4	11 9	J11 9s	12 5	9 8	F	F	F	F	16
10 0	10 8	11 2	11 4	11 7	11 4	12 2	11 3	F	F	F	C	17
U11 OW	10 7	11 5	11 8	J12 2R	J12 3R	U11 8s	U11 0R	U10 2 ^F	U9 4s	9 0	U8 6 ^F	18
9 5	10 6	10 8	U11 7s	12 2	13 0 ^{II}	U13 2s	13 0	U11 5s	11 0	10 0	8 9	19
9 5	9 6	10 3	10 9	11 0	11 4	12 2	11 0	11 0	U9 4s	U9 6s	U9 8s	20
10 7	11 1	U12 0R	12 4	12 8	U13 0R	12 4	F	F	F	F	U9 3 ^F	21
13 5	13 4	12 8	11 6	11 4	U11 6s	U11 4s	10 6	F	F	F	F	22
11 4	10 8	10 2	9 6	10 4	11 1	11 2	U9 7 ^F	F	F	F	F	23
10 6	11 2	10 9	11 2	11 6	12 6	U11 6s	10 7	9 9	F	F	F	24
9 4	10 0	10 1	10 8	11 5	12 4	11 0	9 8	9 1	U9 0 ^F	F	F	25
11 0	11 0	11 6	11 6	11 4	11 1	10 7	9 2	8 0	F	F	F	26
9 4	9 7	10 6	11 1	11 5	11 5	10 6	9 4	F	F	F	F	27
11 9	11 4	11 0	11 0	11 4	U11 8s	11 5	10 0	F	F	F	F	28
10 0	9 8	10 1	10 7	11 1	U11 8s	11 8	10 4	F	F	F	F	29
10 2	10 3	10 6	10 6	10 3	10 4	9 1	U7 0 ^F	F	F	F	F	30
9 8	10 1	9 8	10 0	10 4	10 8	U10 3s	8 8	8 8	U9 0 ^R	8 8	8 8	31
10 5	10 7	11 0	11 2	11 5	11 7	11 4	10 0	9 6	U9 6	U9 7	U9 1	Mean
10 4	10 6	10 8	11 1	11 5	11 8	11 4	9 8	9 6	U9 4	U10 0	U8 9	Median
30	30	31	31	30	31	31	26	14	11	7	9	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foF₁
 Unit Mc.
 Month July 1958

TABLE 2
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	C	C
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6									L	L	L	L
7									L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10									L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	LH	LH
18								L	L	L	L	L
19								L	L	L	L	LH
20								L	L	L	L	L
21								A	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	C	L	L
27								C	C	L	LH	LH
28								L	L	L	LH	L
29								L	L	L	LH	LH
30								L	L	L	L	L
31								L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic · fo F₁
 Unit Mc.
 Month July 1958

TABLE 2
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	L	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
LH	LH	L	L	L	L							4
L	L	L	L	L	L							5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
LH	LH	L	L	L	L							17
L	L	L	L	L	L							18
LH	LH	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
G	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
LH	LH	L	L	L	L							27
L	L	L	L	L	L							28
LH	LH	L	L	L	L							29
LH	LH	L	L	L	L							30
L	L	L	L	L	L							31
.	.											Mean
.	.		.		.							Median
		1	.									Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foF₁
 Unit Mc
 Month July 1958

TABLE 2
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Day	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	C	G
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4								L	L	L	L	L
5							L	L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11							L	L	L	L	L	L
12							L	L	L	L	LH	L
13							L	L	L	L	L	L
14							L	L	L	L	L	L
15							L	L	L	L	L	L
16								L	L	L	I	L
17								L	L	L	LH	LH
18								L	L	L	L	L
19								L	L	L	LH	LH
20								L	L	L	L	L
21								L	L	L	L	L
22							L	L	L	L	C	C
23							L	L	L	L	L	L
24							L	L	L	L	L	L
25							L	L	L	L	I	L
26							L	L	L	C	L	L
27							L	L	L	C	LH	LH
28							L	L	L	L	L	L
29								L	L	LH	LH	LH
30								L	L	L	LH	LH
31								L	L	LH	L	L
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic fo F₁
 Unit Mc
 Month July 1958

TABLE 2
 Ionospheric Data
 75.0° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	G	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
LH	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L	A							7
L	L	L	L	L	A							8
L	L	L	L	L	A							9
L	L	L	L	L	A							10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
u ₅ 3LH	LH	LH	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
LH	L	L	L	L								17
L	L	L	L	L								18
LH	LH	L	L	L								19
L	L	L	L	L								20
LH	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
LH	LH	LH	L	L								27
LH	L	L	L	L								28
LH	u ₆ 5L	u ₆ 3L	LH	L								29
L	L	L	L	LH								30
LH	L	L	L	L								31
												Mean
												Median
1	1	2										Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo E
Unit Mc
Month July 1958

TABLE 3
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3 1H	A	A	C	C
2								A	A	A	A	A
3							2 2H	A	A	A	A	A
4								A	3 6A	A	A	A
5								A	A	B	A	A
6												
7							2 2	3 1	A	A	A	A
8							2 3	A	A	A	A	A
9								A	A	A	A	A
10								2 8	A	A	A	A
11												
12								2 9	A	A	A	A
13								A	A	A	A	A
14								U3 2R	A	A	A	A
15							U2 1R	A	A	A	A	A
16								2 9H	A	A	A	A
17							U2 5R	2 9II	A	A	A	A
18							2 2	2 9	A	A	A	A
19								A	A	A	R	A
20								U2 9A	A	A	A	A
21								2 8	A	A	B	A
22								2 9	3 5	A	A	A
23								U2 8R	3 3	A	A	C
24							R	A	A	A	A	A
25								A	3 4	A	A	A
26								3 0	A	A	A	A
27								2 9	U3 5R	C	A	A
28								C	C	C	C	B
29								U3 2R	U3 7R	A	B	B
30								U3 2A	B	B	B	B
31								U3 3A	U3 7A	A	A	A
								A	A	A	A	A
Mean							2 2	3 0	3 5			
Median							2 2	2 9	3 5			
Count							6	17	7			

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foE
Unit Mc
Month July 1958

TABLE 3
Ionospheric Data
75° E Mean Time

Latitude : 10° 2' N
Longitude : 77° 5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	Λ	Λ	A							1
A	A	A	Λ	Λ	F							2
A	A	A	Λ	Λ	A							3
A	A	A	Λ	Λ	A							4
A	B	Λ	Λ	Λ	2 9							5
Λ	Λ	Λ	Λ	Λ	3 0							6
Λ	Λ	Λ	Λ	Λ	Λ							7
Λ	Λ	Λ	Λ	Λ	3 0							8
Λ	Λ	u ₁ 1R	Λ	Λ	Λ							9
Λ	Λ	Λ	Λ	Λ	Λ							10
Λ	Λ	B	Λ	Λ	Λ							11
Λ	B	Λ	Λ	Λ	Λ							12
Λ	Λ	Λ	Λ	Λ	Λ							13
Λ	Λ	Λ	Λ	Λ	Λ							14
Λ	Λ	Λ	Λ	Λ	Λ							15
Λ	Λ	Λ	Λ	Λ	C							16
Λ	Λ	Λ	Λ	Λ	3 0H							17
Λ	Λ	Λ	Λ	Λ	Λ							18
Λ	Λ	Λ	Λ	Λ	2 9							19
B	Λ	Λ	Λ	3 4	Λ							20
Λ	Λ	Λ	Λ	3 3	2 8							21
C	Λ	Λ	Λ	u ₃ 5A	Λ							22
Λ	Λ	Λ	Λ	Λ	2 8							23
Λ	Λ	Λ	Λ	Λ	3 4							24
Λ	Λ	u ₃ 7A	Λ	u ₃ 5A	2 8							25
Λ	Λ	Λ	Λ	Λ	Λ							26
B	B	B	Λ	Λ	Λ							27
Λ	Λ	Λ	Λ	Λ	Λ							28
Λ	Λ	Λ	Λ	Λ	Λ							29
Λ	C	Λ	Λ	Λ	Λ							30
Λ	Λ	Λ	Λ	u ₄ 6A								31
				3 5	2 9							Mean
				3 4	2 9							Median
		2		6	9							Count

Sweep 1 Mc to 25 Mc in 27 Seconds

Characteristic · foE
Unit Mc.
Month · July 1958

TABLE 3—contd
Ionospheric Data
75 ° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2 8	A	A	A	C	C
2							A	A	A	A	A	A
3							2 7	A	A	A	A	A
4							A	A	3 9 ^A	A	A	A
5								A	A	A	A	A
6							A	A	A	A	A	A
7							3 0	A	A	A	A	A
8								A	A	A	A	A
9							A	A	A	A	A	A
10							2 7	A	A	A	A	A
11							2 5	U3 4 ^A	A	A	A	A
12							A	A	A	A	A	A
13							U2 7 ^R	A	A	A	A	A
14							U2 5 ^A	A	A	A	A	A
15							2 7 ^H	3 4 ^H	A	A	A	A
16							U2 7 ^R	A	A	A	A	A
17							2 5 ^{II}	A	A	A	A	A
18							A	A	A	C	A	A
19							A	A	A	A	A	A
20							2 4	A	A	A	A	A
21							2 6 ^H	3 2	A	A	A	A
22							2 5 ^H	3 1	A	A	C	C
23							A	A	A	A	A	A
24							2 5 ^H	3 2 ^H	A	A	A	A
25							3 0	U3 1 ^A	A	A	A	A
26							2 3	R	B	C	A	B
27							U3 0 ^A	C	C	C	B	B
28							2 8 ^H	U3 5 ^R	B	A	B	A
29							U3 0 ^A	A	B	B	B	B
30							U2 7 ^R	U3 5 ^A	A	A	A	A
31							A	A	A	A	A	A
Mean							2 7	3 3				
Median							2 7	3 3				
Count							20	8	1			

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic . foE
 Unit Mc
 Month July 1958

TABLE 3—Contd
 Ionospheric Data
 75° E Mean Time

Latitude + 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	A	A	A								1
A	B	A	A	3 2	A							2
A	A	A	A	A								3
A	A	A	A	3 3 ^A								4
A	A	A	R	A								5
A	A	A	A	3 3	2 7							6
A	A	A	A	A								7
A	A	A	A	A								8
A	4 2	4 0	A	A								9
A	A	A	A	A	A							10
A	B	B	A	A	A							11
A	A	A	A	A								12
A	A	A	A	A								13
A	A	A	A	A								14
A	A	B	A	A								15
A	A	A	A	U2 9A								16
A	A	A	A	A								17
A	A	A	A	A								18
A	A	A	A	3 2								19
A	A	A	A	A	A							20
A	A	A	A	3 2								21
A	A	A	U3 6F	3 3	2 5							22
A	A	A	A	A	2 6							23
A	A	A	A	3 7	3 3							24
A	A	A	A	3 2	2 5							25
A	A	A	A	A	2 6							26
B	B	U4 1A	A	U3 2R								27
A	A	A	A	A								28
A	A	A	A	A								29
A	A	A	A	A								30
A	A	A	A	B								31
				3 2	2 6							Mean
..				3 2	2 6							Median
	1	2	2	10	6							Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foEs
Unit Mc
Month July 1958

TABLE 4
Ionospheric Data
75° E Mean Time

Latitude 10 2°N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	5 4							7 0	8 6	9 8	C	C
2							G	8 0	10 6	10 2	11 0	11 4
3								7 8	8 3	9 5	10 8	11 0
4	6 3	5 5		5 8	8 2	8 0		8 6	9 6	10 0	11 2	11 4
5			5 2				5 4	9 8	10 6	10 0	11 4	11 0
6							G	8 6	9 8	10 6	12 0	12 0
7		4 0	2 6				7 0	9 0	10 0	10 0	11 6	11 6
8			3 0	7 0			8 0	10 0	10 0	11 0	11 4	11 6
9			2 2				7 0	9 0	9 6	10 2	10 0	9 2
10	2 0							3 6	10 0	11 0	11 6	12 0
11		3 1	3 2					G	9 7	10 9	11 3	11 3
12								10 6	10 4	11 6	11 8	11 4
13		2 4						G	9 1	10 4	12 0	11 3
14		3 4					G	10 6 ^s	10 7	12 0	13 0	12 6
15								G	8 1	10 3	11 2	11 9
16		4 2					G	G	8 7	9 6	11 4	11 7
17							G	G	9 0	10 0	11 0	11 2
18	C							8 0	8 0	8 4	G	11 0
19		3 4						5 0	9 4	11 0	12 0	12 0
20	5 6							G	8 6	10 0	11 0	11 0
21	3 8	4 2						10 0	7 0	10 0	11 0	11 0
22				2 2				G	G	8 0	C	C
23							2 1	3 6	9 4	8 8	10 6	10 8
24	4 3							4 0	G	9 2	10 8	10 2
25	3 4	4 0	3 8				6 4	6 8	9 0	10 2	11 2	11 6
26	08 25							3 6	7 4	C	11 0	10 8
27	4 0							C	C	C	C	11 0
28			3 6	4 6			2 1	G	G	10 0	11 0	11 4
29	2 8							8 0	9 8	10 0	12 0	12 0
30	3 4							7 0	9 8	10 2	11 5	11 4
31							6 0	8 4	7 4	11 0	11 6	11 6
Mean	4 5	3 8	3 4				5 5	7 5	9 2	10 1	11 3	11 3
Median	4 0	4 0	3 2				2 1	7 0	9 2	10 0	11 2	11 4
Count	11	9	7	4	1	1	13	30	30	29	28	29

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic foEs
Unit Mc
Month July 1958

TABLE 4
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	10 0	8 7	6 8	7 0				6 0	5 3	1
11 4	10 4	10 0	13 0	6 8	6 8	8 0				7 0		2
11 4	12 0	11 0	10 0	9 4	10 4	10 8	3 6	4 4	U9 4s	7 8	U7 0s	3
11 0	11 1	10 8	10 2	8 8	G	U7 0s			6 0	U5 0s	4 2	4
11 0	9 4	10 0	10 6	10 8	8 0	U6 0s						5
11 0	11 0	10 0	11 0	8 0	G	3 9					3 4	6
11 8	12 0	12 0	17 0	21 0	22 0	16 0				U6 8s		7
11 0	11 0	11 2	18 0	9 0	G	2 6				8 0		8
10 4	10 6	G	11 0	8 6	8 0							9
12 0	12 0	11 4	11 0	10 0	10 0	U7 4s					C	10
12 0	11 3	11 2	10 5	9 1	9 0	U7 9s	4 0			3 8	9 6	11
11 5	10 8	12 0	U14 3s	9 3	U8 0s	U4 5s			1 8	2 1		12
11 5	11 2	10 8	9 6	10 1	8 5					2 3	U4 2s	13
12 3	11 4	11 4	11 6	8 6	4 3	U4 3s	2 2					14
11 9	11 6	11 8	11 0	8 9	U7 8s	U6 8s	2 3			3 0	3 1	15
11 6	11 5	11 4	10 8	8 2	C	2 8					2 6	16
11 0	11 2	11 0	11 2	8 0	G	2 2		2 4				17
11 0	10 6	10 2	10 2	9 0	U7 0s	4 2					5 4	18
11 6	11 8	11 6	11 4	G	3 6				3 8	2 6	3 1	19
11 0	11 0	11 4	10 6	10 0	14 4	14 0	8 3	4 6	3 6	3 3	6 6	20
12 0	11 0	11 0	9 4	G	2 9					2 6	8 2	21
C	10 7	10 8	10 6	8 8	8 0	U4 2s	8 6					22
11 6	11 6	11 0	11 0	8 6	7 7						2 1	23
10 2	10 4	8 8	8 8	7 6	6 5		S	4 7	4 0		5 7	24
11 0	11 2	11 2	10 6	9 4	G				2 4	4 0	2 9	25
11 3	10 8	10 8	10 0	8 5	7 8	4 2	U6 0s	3 0			U7 0s	26
11 0	11 0	10 2	9 8	8 2	7 6	4 6				2 2	3 4	27
12 0	12 4	11 6	11 8	9 0	8 6	U6 2s	3 6		1 9	4 0	3 5	28
12 0	11 8	12 5	12 0	8 6	17 0	10 8	3 4			3 0	3 0	29
11 6	C	11 4	11 0	8 4	8 6	4 2	2 8				6 6	30
11 8	11 9	11 4	11 0	8 6	4 4				2 0	3 0	3 2	31
11 4	11 2	11 0	11 3	9 2	8 5	6 5	4 5	3 8	3 9	4 2	4 8	Mean
11 5	11 2	11 1	11 0	8 7	7 8	6 0	3 6	4 4	3 6	3 6	4 2	Median
29	29	30	31	31	30	23	10	5	9	18	21	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic foEs
Unit Mc
Month July 1958

TABLE 4—Contd.
Ionospheric Data
75 ° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							6 8	8 4	9 8	11 6	C	C
2		3 4					7 3	8 6	9 6	11 0	11 5	11 0
3							G	7 8	8 4	9 6	11 0	11 6
4			5 4	7 8	10 4		7 0	8 6	9 6	11 0	11 0	11 2
5	U6 4 ^s	4 2	U6 2 ^s				8 0	10 4	11 6	11 6	10 4	11 0
6		5 6					7 6	9 0	9 4	11 0	11 8	11 2
7	7 0		2 2				G	9 0	9 2	11 0	12 0	11 6
8		3 4	7 0				9 0	10 0	10 4	11 0	11 6	11 0
9							8 0	9 0	10 0	10 8	10 2	10 0
10	3 2						G	9 0	10 0	11 0	11 6	11 8
11		3 3					G	7 8	10 0	11 6	11 2	11 1
12							10 4	10 0	11 0	12 7	11 0	11 5
13	3 0	2 2					G	8 3	10 1	12 1	11 4	11 6
14		9 6					8 9	10 4	10 8	11 9	12 4	12 1
15							6 1	G	9 2	11 0	11 6	12 1
16	3 6						G	7 6	9 0	10 9	11 8	11 8
17							G	8 0	10 0	11 0	11 2	11 4
18		5 2					6 0	9 2	7 0	C	10 0	10 6
19							3 2	8 0	10 0	12 0	12 0	12 0
20	5 6						G	10 2	9 6	11 0	10 6	11 2
21	4 4						4 6	6 8	9 2	10 4	10 5	11 4
22							G	G	8 8	10 7	C	C
23					U5 0 ^s 2 2		3 2	7 0	8 6	10 8	10 8	10 8
24							G	G	8 4	10 0	10 8	11 0
25	U6 0 ^s	5 7	3 0				6 4	8 4	10 0	10 8	11 4	11 2
26							2 6	6 4	8 4	C	10 8	10 8
27	4 6						8 4	C	C	C	10 2	11 0
28		3 6					G	G	G	11 0	11 2	11 4
29							6 4	7 2	B	10 7	11 2	11 8
30							6 4	7 0	10 0	11 0	11 4	12 4
31	4 2						7 4	8 6	10 4	11 4	11 0	11 6
Mean	4 8	4 6	4 8				6 7	8 5	9 6	11 1	11 2	11 4
Median	4 5	3 9	5 4				6 0	8 4	9 6	11 0	11 2	11 4
Count	10	10	5	3	1		31	30	29	28	29	29

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic foEs
Unit Mc.
Month July 1958

TABLE 4—Contd
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	9 6	8 6	8 4	6 2	6 0			4 1			1
11 6	10 6	10 6	9 0	G	8 0	4 0			U4 6s		3 2	2
11 4	11 2	10 4	7 8	9 8	11 2	8 8		U5 8s	13 4	9 0	U8 0s	3
11 4	11 0	11 0	9 6	8 6	7 8				U5 8s	8 4		4
11 8	9 0	18 4	6 6	10 2	8 5							5
11 0	10 2	9 4	8 0	G	G				2 2		2 4	6
11 4	15 0	12 0	12 4	20 0	17 0	U7 0s		2 8		4 4		7
11 2	11 0	10 6	10 4	9 0	3 4	2 6			2 8	8 6	7 0	8
10 2	8 0	G	8 0	9 0	7 0							9
12 0	11 4	11 0	10 8	11 0	9 0						U5 8s	10
11 7	10 1	11 1	10 3	8 8	U8 1s	U6 2s				U7 2s		11
11 2	11 2	11 1	11 2	8 7	U6 3s	2 8						12
11 2	11 0	10 1	9 1	8 7	3 4					U6 0s	4 3	13
12 0	11 1	11 8	9 1	8 0	U1 7s	2 8				2 7		14
11 4	11 5	11 0	9 7	8 7	U6 4s	2 2						15
11 6	11 4	11 1	9 0	6 8	6 4							16
11 4	11 0	11 0	8 6	3 5	4 2	2 6	3 6	3 4			C	17
11 6	10 2	9 6	9 0	8 4	U5 0s	3 6			3 6	4 4	4 4	18
11 4	11 2	10 2	11 0	3 6	7 0					3 0		19
11 0	11 6	11 0	10 2	9 2	12 6	11 0	U6 0s	4 4	3 6	8 2	7 0	20
11 4	11 0	10 5	7 8	G	3 4					U7 0s		21
9 6	10 0	10 8	7 4	8 4	4 0	9 0					2 6	22
11 4	10 6	10 6	9 3	8 4	G					2 1	3 6	23
11 4	9 6	8 4	6 8	6 8	S		S	4 7		3 9	4 0	24
11 8	11 2	11 0	9 2	G	G				U4 5s	.	S	25
10 8	11 0	9 8	8 6	8 4	S	U7 0s	5 8			2 9	6 6	26
11 0	11 2	10 6	8 0	G	3 0	3 2			2 1	3 1	2 4	27
11 6	11 8	11 6	10 2	8 6	7 8	4 0			3 5	2 6	5 4	28
11 6	12 0	12 0	9 0	15 0	18 0	U7 0s			3 6	3 2	4 6	29
12 0	11 2	11 8	9 4	9 4	7 0					4 0	4 4	30
11 8	11 2	11 2	9 6	G	4 4					3 4	2 8	31
11 3	11 0	11 0	9 2	9 0	7 3	5 3		4 2	4 5	5 0	4 6	Mean
11 4	11 0	11 0	9 1	8 4	6 4	4 0		4 4	3 6	4 0	4 4	Median
30	30	31	31	31	29	17	3	5	12	19	17	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic fbEs
Unit Mc
Month July 1958

TABLE 5
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2 4							3 1	3 6	4 0	C	C
2								3 1	3 6	4 0	4 2	4 4
3								3 0	3 7	4 1	4 2	4 6
4	3 1	2 4		2 2	2 2	2 6		3 2	3 6	4 1	4 2	4 5
5			2 2				2 3	3 3	4 1	4 3	4 3	4 4
6								3 1	3 6	4 0	4 2	4 4
7		2 2	2 6				2 3	3 4	3 8	4 2	4 4	4 5
8			2 0	2 4			2 7	3 0	3 5	4 0	4 2	4 5
9			1 9				2 1	3 0	3 5	3 9	4 1	4 4
10	2 0							3 0	3 6	4 0	4 3	4 5
11		2 4	2 2						3 6	4 1	4 3	4 4
12								3 0	3 7	4 0	4 3	4 4
13		1 7							3 5	4 0	4 3	4 3
14		2 3						3 0	3 6	4 0	4 3	4 6
15									4 2	4 0	4 3	4 4
16		2 1							3 4	3 9	4 1	4 2
17									3 5	3 8	4 2	4 5
18	C							3 0	3 4	3 8		4 3
19		1 9						3 0	3 4	4 0	4 2	4 3
20									3 8	3 9	4 4	4 3
21								5 0	5 1	4 0	4 2	4 4
22				1 9						4 3	C	C
23								3 0	3 8	4 0	4 1	4 4
24								3 0		4 0	4 2	4 6
25		2 2						3 1	3 6	4 0	4 3	4 5
26	3 3							3 3		C	4 3	4 7
27	2 4							C	C	C	C	4 8
28			2 2	2 2						4 4	4 8	4 7
29								3 2				
30	2 0								3 8	4 1	4 4	4 8
31							2 2	3 2	3 8	4 3	4 6	4 6
Mean	2 5	2 2	2 2				2 3	3 2	3 7	4 0	4 3	4 5
Median	2 4	2 2	2 2				2 3	3 1	3 6	4 0	4 3	4 5
Count	6	8	6	4	1	1	5	21	25	28	26	29

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic · fbEs
Unit Mc
Month July 1958

TABLE 5—Contd.
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude : 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	4 0	3 7	3 0	2 4				2 6	2 9	1
4 5	4 5	4 4	4 8	3 6	3 0	2 4				2 4	2 2	2
4 8	4 6	4 3	3 9	3 7	5 5	5 4	2 2	2 1	3 5	3 2	2 6	3
4 7	4 5	4 2	4 0	3 6		2 7			2 1	2 3	2 0	4
4 5	4 6	4 3	4 1	4 2	3 1	2 2						5
4 4	4 6	4 2	4 3	3 6		3 0					2 0	6
4 8	4 4	4 6	5 8	5 8	A	5 0				2 2		7
4 6	4 5	4 2	7 0	3 8		2 6				2 1		8
4 6	4 3		3 8	3 4	3 0							9
4 5	4 4	4 3	3 9	3 8	3 8	2 8					C	10
4 5	4 5		4 1	3 7	3 0	2 7	2 2			2 3	3 0	11
4 3		4 2	5 2	3 8	3 9	2 3			1 8	1 7		12
4 5	4 4	4 2	3 8	3 4	3 0					1 7	2 3	13
4 6	4 4	4 3	4 1	3 7	3 6	2 2	2 0					14
4 6	4 3	4 1	4 0	3 5	3 3	2 5	2 0			1 7	1 9	15
4 3	4 3	4 1	3 8	3 5	C	2 5					2 3	16
4 3	4 4	4 2	3 8	3 4		2 2		2 0				17
4 4	4 2	4 1	3 7	3 4	3 0	2 4					2 0	18
4 4	4 2	4 2	5 2	3 4	3 4				2 0			19
4 4	4 5	4 1	3 8	3 6	3 8	5 6	3 1	2 4		2 2		20
4 4	4 4	4 2	3 9							1 9	2 6	21
C	4 4	4 1	4 2	4 0	3 4	2 8	3 0					22
4 4	4 4	4 2	4 0	3 5	3 0							23
4 5	4 5	4 2	3 9	3 5			1 7	3 4	3 2		2 8	24
4 5	4 4	4 3	4 0	3 5					2 0	2 1		25
4 7	4 4		4 0	3 6	3 0	2 2	2 6				2 6	26
	4 8		4 1	3 7	3 0	2 2					2 2	27
4 8	4 6	4 4	4 1	3 8	3 1	2 3						28
4 0	4 7	5 0	4 6	3 8	5 4	3 0	2 0			2 2		29
4 6	C	4 8	4 4	3 8	3 1	2 4					2 3	30
4 7	4 7	4 4	4 0	4 0	3 4						1 9	31
4 5	4 5	1 3	4 3	3 7	3 4	2 9	2 3		2 4	2 2	2 4	Mean
4 5	4 4	4 2	4 0	3 7	3 1	2 5	2 0		2 0	2 2	2 3	Median
27	28	26	31	29	23	23	9	4	6	14	15	Count

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic fbEs
Unit Mc
Month July 1958

TABLE 5—Contd
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2.8	3.4	4.0	4.2	C	C
2		2.0					2.7	3.4	3.9	4.2	4.4	4.5
3								3.4	3.9	4.1	4.4	4.7
4			2.1	2.1	2.4		2.8	3.5	4.0	4.2	4.6	4.6
5		2.6					2.8	3.6		4.2	4.4	4.6
6			2.2				2.7	3.3	3.7	4.1	4.4	4.6
7	2.4		2.3					3.6	4.0	4.3	4.4	4.7
8		2.2	2.1				3.0	3.3	3.8	4.1	4.3	4.6
9							2.6	3.2	3.7	4.1	4.3	4.5
10	2.7							3.3	3.8	4.1	4.3	4.5
11		1.9						3.3	3.9	4.3	4.4	4.5
12							4.3	3.4	4.0	4.3	4.2	4.4
13	1.6	1.6						3.2	3.7	4.1	4.2	4.5
14		3.3					2.7	3.3	3.8	4.1	4.5	4.6
15							2.6		3.8	4.2	4.3	4.6
16	2.3							3.2	3.7	4.0	4.1	4.3
17								3.2	3.6	4.0	4.3	4.4
18							2.5	3.2	3.6	C	4.1	4.3
19							2.6	3.2	3.7	4.0	4.2	4.4
20								3.3	3.8	4.0	4.3	4.5
21	2.6							3.8	4.3	4.0	4.2	4.4
22				2.2					3.8	4.8	C	C
23				1.8			2.6	3.2	3.8	4.1	4.4	4.5
24									3.7	4.0	4.4	4.5
25	2.4	2.2	1.8					3.3	4.0	4.2	4.4	4.4
26								3.6		C	4.6	4.8
27							2.8	C	C	C	4.8	5.0
28		2.4								4.4		4.8
29								3.4			4.8	4.9
30								3.5	4.0	4.4	4.6	4.6
31							2.8	3.5	4.0	4.4	4.5	4.8
Mean	2.3	2.3					2.8	3.4	3.8	4.2	4.4	4.6
Median	2.4	2.2					2.7	3.3	3.8	4.1	4.1	4.5
Count	6	9	4	3	1		15	26	27	27	28	29

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic fb' Es
Unit Mc
Month July 1958

TABLE 5—Contd
Ionospheric Data
75 0° E Merid Time

Latitude 10 2° N
Longitude . 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	4.3	4.0	3.4	2.7	2.0			3.0			1
4.5	4.6	4.1	4.0		2.6	1.9			2.6			2
4.7	4.5	4.2	3.8	4.1	6.2	3.7		2.8	3.1	2.4	2.3	3
4.7	4.3	4.2	3.9	3.4	2.8				2.1	2.5		4
4.4	4.5	6.1		3.4	2.7							5
4.5	4.4	4.2	3.9						2.0			6
5.0	4.6	4.2	5.8	A	6.0	2.4		2.1		2.2		7
4.6	4.4	4.0	4.0	3.1	2.5				1.7	3.0	2.7	8
4.5	4.4		3.7	3.2	2.6							9
4.5	4.6	4.2	4.0	4.5	3.1						2.2	10
4.5		4.2	3.9	3.3	2.8	2.3				2.2		11
4.3	4.4	4.1	4.3	3.3	2.6	1.9						12
4.4	4.2	3.9	3.7	3.2	2.7					1.8	2.2	13
4.5	4.4	4.2	3.7	4.0	3.9	1.7				1.8		14
4.3	4.2		3.7	3.3	3.4	1.8						15
4.3	4.2	4.0	3.8	3.3	2.5							16
4.4	4.2	4.0	3.6	3.4	2.5			2.0			G	17
4.4	4.2	4.0	3.6	3.3	2.5	2.0			1.8	2.0		18
4.3	4.2	4.0	3.8	3.5	2.8							19
4.6	4.5	4.0	3.6	3.5	3.8	5.2	2.8	2.2	2.4	2.6	2.7	20
4.6	4.4	4.0	3.8		2.6					2.1		21
4.4	4.5	4.1	3.8	3.5	3.0	2.6						22
4.4	4.3	4.0	3.8	3.3								23
4.3	4.3	4.1	4.0	3.4			2.7	3.0				24
4.4	4.5	4.2	3.8						1.8	3.4		25
4.4	4.3	4.2	3.8	3.4		2.8	1.7		2.2	2.2		26
4.8	4.1	4.1	4.0	3.4	2.7	2.0			1.8			27
4.6	4.6	4.4	4.0	3.6	3.0							28
4.7	4.4	4.8	4.0	4.0	6.8	2.5			2.0	2.2	2.2	29
4.7	4.4	4.8	4.0	3.5	2.8					2.2		30
4.7	4.6	4.4	4.1							1.8		31
4.5	4.4	4.2	3.9	3.5	3.3	2.5		2.4	2.2	2.3	2.5	Mean
4.5	4.4	4.2	3.8	3.4	2.8	2.2		2.2	2.0	2.2	2.3	Median
29	28	29	30	26	25	14	3	5	12	15	7	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic . f min
Unit Mc
Month July 1958

TABLE 6
Ionospheric Data
75 0° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.0	2.2	2.3	2.0	1.9	1.8	2.4	2.3	2.4	2.8	C	C
2	2.8	2.1	2.1	1.9	1.7	1.7	1.6	2.0	2.5	2.5	2.8	3.0
3	2.1	1.8	2.3	2.2	1.9	1.9	2.3	2.0	2.5	2.8	3.0	3.2
4	2.1	2.2	1.9	1.7	1.8	1.8	2.4	2.2	2.5	3.0	3.1	3.4
5	2.4	2.0	1.8	1.7	2.0	1.7	2.0	2.0	2.2	4.3	3.0	3.0
6	2.1	1.7	2.2	1.8	1.6	1.5	1.8	2.0	2.2	2.7	3.0	3.0
7	1.7	1.6	1.6	2.4	1.9	1.8	2.0	2.5	2.8	3.1	3.0	3.2
8	2.4	2.1	2.0	2.2	2.2	1.8	1.7	2.0	2.2	2.7	3.0	3.0
9	2.0	1.9	1.6	2.0	2.0	1.6	1.7	2.1	2.3	2.8	3.0	3.1
10	1.9	2.8	2.1	1.8	1.9	1.7	2.2	2.0	2.1	2.8	3.0	3.0
11	1.7	1.7	1.8	2.0	1.9	2.1	2.3	2.3	2.7	3.1	3.0	3.2
12	2.0	2.2	2.1	1.6	1.7	1.6	2.2	2.1	2.5	2.8	2.9	3.1
13	1.6	1.6	1.9	1.7	1.8	1.6	2.3	2.2	2.4	2.9	2.7	3.2
14	2.1	1.9	2.4	1.9	2.1	1.7	1.9	2.1	2.4	2.8	2.8	3.0
15	1.7	1.7	1.5	1.5	1.4	1.5	2.1	2.1	2.4	2.9	3.0	3.2
16	2.4	2.0	1.6	1.9	1.7	1.6	1.9	2.2	2.4	2.6	2.8	3.0
17	2.0	2.8	2.3	1.8	1.8	1.6	1.4	2.2	2.6	3.0	2.8	3.0
18	C	1.9	2.0	2.2	2.0	1.6	2.0	1.9	2.3	2.6	2.8	3.0
19	2.0	1.6	1.5	1.6	1.6	1.3	2.3	2.2	2.4	2.8	3.0	3.0
20	1.9	2.0	2.0	1.7	1.9	1.7	2.1	2.1	2.7	2.0	3.5	3.1
21	2.6	2.0	1.7	1.7	1.6	1.9	C	2.0	1.7	3.0	3.2	3.4
22	2.6	2.0	1.4	1.6	1.8	1.7	2.0	2.4	2.5	3.0	C	C
23	1.7	1.5	1.4	1.7	1.6	1.5	1.5	1.7	2.2	2.6	2.7	3.0
24	1.4	1.7	1.7	1.5	1.7	1.7	2.1	2.1	2.5	2.8	2.7	3.2
25	2.4	1.7	1.8	2.2	1.9	1.7	2.3	2.1	2.3	3.0	3.0	3.1
26	1.6	2.1	2.0	1.8	2.2	2.0	1.9	2.1	2.8	C	3.0	3.4
27	1.8	2.4	2.4	2.0	1.5	1.5	2.2	C	C	C	C	4.4
28	2.2	2.2	2.0	1.6	2.0	1.6	1.9	2.4	2.9	3.6	4.1	4.2
29	1.4	1.4	1.7	1.7	1.8	1.7	2.2	2.0	4.1	5.4	3.9	4.0
30	1.8	2.2	2.1	1.9	1.8	1.8	2.4	2.1	2.8	3.2	3.4	3.7
31	2.2	2.0	1.8	1.9	1.7	1.7	1.6	2.2	2.8	3.0	3.5	3.6
Mean	2.0	2.0	1.9	1.8	1.8	1.7	2.0	2.1	2.5	3.0	3.1	3.3
Median	2.0	2.0	1.9	1.8	1.8	1.7	2.0	2.1	2.4	2.8	3.0	3.1
Count	30	31	31	31	31	31	30	30	30	29	28	29

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic . f min
Unit Mc
Month July 1958

TABLE 6
Ionospheric Data
75.0° E Mean Time

Latitude . 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	2.8	2.7	2.0	1.6	1.8	2.1	2.2	2.4	2.7	1
3.2	3.0	3.0	2.6	2.4	2.4	1.4	1.8	1.9	2.3	2.3	2.4	2
3.6	3.6	3.2	2.9	2.5	1.8	1.6	1.4	1.7	1.9	1.9	1.6	2
3.2	3.2	3.2	2.9	2.6	2.3	1.6	1.7	1.8	1.5	2.0	1.7	4
3.1	4.6	3.1	2.4	2.3	1.8	1.3	1.6	1.8	1.9	1.8	1.7	5
3.2	3.1	3.2	2.6	2.4	2.2	1.8	1.6	1.8	1.8	1.8	1.8	6
3.5	3.2	3.0	2.6	2.6	2.0	1.3	1.7	1.8	2.0	1.5	2.0	7
3.2	3.1	2.9	2.6	2.4	2.0	1.6	1.9	2.0	1.8	1.8	2.7	8
3.2	3.1	3.2	2.6	2.4	2.2	2.2	1.4	1.8	1.7	2.2	2.2	9
3.2	3.0	3.0	2.7	2.5	1.7	1.5	2.7	1.8	1.7	1.9	C	10
3.2	3.3	4.7	3.2	2.8	2.2	1.6	1.3	2.0	2.3	1.7	1.9	11
3.1	5.2	2.9	2.6	2.4	1.7	1.4	1.6	1.8	1.6	1.6	1.8	12
3.2	3.3	3.0	2.6	2.5	2.2	2.3	1.6	1.8	1.7	1.6	1.9	13
3.2	3.1	3.0	2.8	2.4	2.1	1.5	1.5	1.5	1.7	1.8	1.9	14
3.4	3.3	3.2	3.1	2.7	2.3	1.7	1.7	1.8	1.6	1.6	1.8	15
2.9	3.2	2.9	2.5	2.6	C	2.0	1.7	1.7	1.9	1.9	2.2	16
3.3	3.2	3.0	2.6	2.4	2.0	1.8	1.7	1.6	2.0	1.8	2.0	17
3.1	3.2	3.0	2.7	2.6	2.1	1.5	1.4	1.9	2.0	1.8	1.8	18
3.3	3.0	3.0	3.0	2.4	2.4	2.2	2.0	2.0	1.6	1.6	1.9	19
5.1	3.2	3.0	2.4	2.2	1.7	2.2	1.8	1.6	2.0	1.7	2.2	20
3.6	3.2	3.3	3.0	2.8	2.4	2.1	1.3	1.7	1.5	1.5	2.2	21
C	3.1	2.9	2.4	2.6	2.0	1.6	1.8	1.8	2.0	1.9	1.8	22
3.2	3.0	3.0	2.8	2.6	2.4	2.2	1.6	1.8	1.8	2.0	1.7	23
3.0	3.0	2.9	2.6	2.7	2.2	2.2	1.5	1.6	1.9	3.1	2.6	24
3.0	3.2	3.2	2.8	2.7	2.3	2.3	1.5	1.8	2.0	1.9	1.8	25
3.8	3.2	4.8	2.8	2.7	2.5	1.7	1.4	1.6	1.8	2.0	1.6	26
4.9	4.0	4.6	3.0	2.8	2.2	1.4	1.4	1.9	2.0	1.4	1.4	27
3.8	3.4	3.2	3.1	2.8	2.0	1.6	1.7	1.7	1.6	1.4	1.6	28
4.0	3.8	3.2	3.8	2.6	2.4	1.8	1.5	2.0	1.7	1.8	1.3	29
4.0	C	3.2	3.2	3.6	2.1	2.2	1.3	1.8	1.9	2.0	1.5	30
3.7	3.8	3.6	2.8	3.0	2.7	2.2	1.7	1.7	1.6	1.5	1.7	31
3.5	3.4	3.2	2.8	2.6	2.1	1.8	1.6	1.8	1.8	1.8	1.9	Mean
3.2	3.2	3.0	2.8	2.6	2.2	1.7	1.6	1.8	1.8	1.8	1.8	Median
29	29	30	31	31	30	31	31	31	31	31	30	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic . fmin
Unit Mc.
Month July 1958

TABLE 6—Contd
Ionospheric Data
75° E Mean Time

Latitude 10° 2' N
Longitude 77° 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.4	2.3	2.2	1.7	2.0	2.1	2.1	2.2	2.8	2.7	C	C
2	2.5	1.7	2.2	1.8	1.8	2.2	1.7	2.0	2.6	2.5	2.9	3.2
3	1.9	2.2	2.2	1.7	1.6	2.2	2.2	2.3	2.5	2.7	2.7	3.5
4	2.6	2.2	1.7	1.5	1.8	2.4	2.2	2.3	2.8	3.1	3.3	3.1
5	2.3	2.1	1.7	2.2	1.8	2.1	1.8	2.2	2.4	3.0	3.0	3.0
6	2.0	1.6	2.3	1.8	1.7	2.0	1.8	2.2	2.6	2.8	3.1	3.0
7	2.1	3.0	1.5	2.1	2.0	2.0	2.7	2.5	3.2	3.0	3.2	3.1
8	2.4	1.8	2.0	2.7	2.1	2.1	1.8	2.2	2.5	2.8	3.0	3.2
9	2.2	2.4	1.9	2.4	1.8	1.9	1.8	2.2	2.4	2.9	3.0	3.0
10	2.4	2.2	2.2	1.7	1.9	2.2	2.3	2.2	2.8	2.8	3.2	3.2
11	1.6	1.7	2.3	2.0	1.7	2.1	2.1	2.4	2.9	3.4	3.1	3.2
12	2.2	2.0	1.7	1.6	1.8	1.9	1.6	2.3	2.6	2.9	3.0	3.1
13	1.4	1.3	1.6	1.7	1.6	2.0	2.6	2.2	2.5	2.7	3.0	3.2
14	2.0	2.1	2.3	1.7	2.0	2.2	2.0	2.4	2.5	2.8	3.0	3.1
15	1.7	1.6	1.4	1.4	1.6	1.7	1.9	2.4	2.8	3.0	3.1	3.3
16	2.2	1.6	2.1	1.6	1.6	1.9	1.9	2.3	2.5	2.6	2.9	3.0
17	2.4	2.4	2.2	1.6	1.5	2.0	1.7	2.4	3.0	2.7	3.0	3.0
18	2.1	2.1	2.3	2.4	1.4	1.9	1.6	2.0	2.2	C	2.8	3.0
19	2.2	1.9	1.7	1.7	1.6	1.7	1.9	2.1	2.5	3.0	3.0	3.3
20	1.9	1.9	1.7	1.7	1.8	1.9	2.0	2.3	2.6	2.8	3.1	3.0
21	2.1	2.0	1.5	1.5	1.7	2.3	2.2	2.6	2.8	2.9	3.2	3.6
22	2.4	1.8	1.5	1.2	1.8	2.3	2.0	2.8	2.6	3.0	C	C
23	1.7	1.4	1.6	1.4	1.4	1.7	1.5	2.1	2.4	2.8	3.0	3.0
24	1.6	1.7	1.8	1.8	1.6	2.1	2.0	2.4	2.6	3.0	2.8	3.0
25	1.6	1.8	1.6	2.2	1.6	1.8	2.1	2.3	2.7	2.7	2.8	3.2
26	2.2	1.7	2.1	2.0	2.0	1.8	1.6	3.1	3.9	C	3.2	4.4
27	2.1	2.8	2.0	1.7	1.6	1.9	2.0	C	C	C	4.8	4.0
28	2.2	1.8	2.0	2.2	1.9	2.0	2.1	2.7	3.4	3.5	4.8	3.8
29	1.7	1.8	1.8	1.7	1.7	2.2	1.7	2.3	7.6	3.9	1.4	4.0
30	2.6	2.3	1.9	1.7	1.9	2.0	2.2	2.4	3.0	3.4	3.6	3.8
31	2.2	2.0	1.7	2.0	1.7	1.7	1.9	2.4	3.0	3.0	3.4	3.6
Mean	2.1	2.0	1.9	1.8	1.7	2.0	2.0	2.3	2.9	2.9	3.2	3.3
Median	2.2	1.9	1.9	1.7	1.7	2.0	2.0	2.3	2.6	2.9	3.0	3.2
Count	31	31	31	31	31	31	31	30	30	28	29	29

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic f min
 Unit · Mc
 Month July 1958

TABLE 6—Contd
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	3 1	2 6	2 4	1 9	1 5	1 8	2 2	1 7	3 4	3 4	1
3 4	4 6	2 6	2 7	2 4	2 2	1 6	1 8	2 0	2 4	2 2	2 0	2
3 4	3 2	3 0	3 0	2 3	1 7	1 5	1 7	1 9	2 3	1 6	1 6	3
3 0	3 0	2 8	2 6	2 6	1 8	1 6	2 0	1 7	1 6	1 7	1 7	4
2 9	3 0	3 0	2 8	2 1	1 6	1 7	1 8	1 9	1 9	1 9	2 0	5
3 0	3 2	3 0	2 8	2 2	2 0	1 7	1 5	1 6	1 7	1 5	1 7	6
3 4	3 0	2 7	2 8	2 3	1 5	1 3	1 8	1 5	2 0	1 8	2 5	7
3 2	3 0	2 6	2 7	2 2	2 1	1 7	2 0	1 7	1 5	2 1	1 6	8
3 1	3 0	3 0	2 8	2 2	2 1	1 7	1 7	1 7	1 9	2 1	2 0	9
3 2	3 0	3 3	2 7	2 1	1 6	1 8	1 8	1 7	2 0	2 0	1 7	10
3 1	5 2	4 0	3 1	2 5	1 7	1 4	1 8	2 1	1 8	1 7	2 1	11
3 0	3 2	2 6	2 6	2 1	1 5	1 4	1 6	1 9	1 8	1 9	1 6	12
3 1	3 0	2 8	2 7	2 4	2 0	1 9	1 7	1 6	1 6	1 5	1 9	13
3 3	3 0	3 0	2 7	2 1	2 3	1 3	1 9	1 8	1 9	1 7	1 6	14
3 8	3 2	4 3	3 0	2 4	1 9	1 7	1 6	1 7	1 8	2 0	1 9	15
3 1	3 2	2 8	2 6	1 4	1 8	1 8	1 8	1 8	2 0	2 0	2 2	16
3 2	3 2	3 0	2 6	2 4	2 1	1 6	1 6	1 3	1 8	2 0	C	17
3 1	3 0	2 8	2 6	2 2	1 8	1 5	1 7	1 9	1 3	1 5	2 0	18
3 2	3 0	3 0	2 8	2 6	1 8	2 0	1 7	1 2	1 5	1 5	2 1	19
3 2	3 2	2 8	2 4	2 0	2 4	1 6	1 3	2 0	2 1	2 0	2 4	20
3 6	3 2	3 0	2 6	2 4	1 9	1 5	1 6	1 5	1 6	1 6	2 6	21
3 1	3 0	2 8	2 9	2 3	2 0	1 8	1 7	1 7	2 0	1 8	1 7	22
3 0	3 1	2 9	2 9	2 3	1 9	1 5	1 7	1 9	1 8	1 6	1 5	23
3 0	3 0	2 6	3 0	2 4	2 3	1 5	1 2	1 8	2 5	3 0	2 4	24
3 2	3 2	3 0	2 9	2 6	2 2	1 6	1 6	1 9	1 5	2 0	2 0	25
3 0	3 2	3 2	2 8	2 6	2 2	1 3	1 6	1 8	2 2	1 6	1 6	26
4 4	4 6	3 2	2 7	2 4	1 8	1 6	1 9	2 0	1 6	1 4	1 7	27
3 6	3 4	3 6	3 2	2 2	1 8	1 6	1 7	1 8	1 7	1 7	1 2	28
4 8	3 8	3 0	2 7	2 4	2 2	1 4	2 0	1 9	1 4	1 4	1 9	29
3 8	3 4	3 0	3 0	2 2	2 2	1 7	2 0	2 0	1 9	1 4	2 2	30
3 6	3 6	3 2	3 2	5 0	2 4	1 7	1 6	1 5	2 0	1 3	1 6	31
3 3	3 3	3 0	2 8	2 4	2 0	1 6	1 7	1 8	1 8	1 8	1 9	Mean
3 2	3 2	3 0	2 8	2 4	1 9	1 6	1 7	1 8	1 8	1 7	1 9	Median
3 0	3 0	3 1	3 1	3 1	3 1	3 1	3 1	3 1	3 1	3 1	3 0	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic · h' F2
 Unit Km
 Month July 1958

TABLE 7
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	C	C
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	LH
5								L	L	L	L	L
6								,,	L	L	L	L
7								,,	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L ⁶⁰
11								L	L	U3201	L	L
12								L	L	L	L	LH
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	LH	L
16								L	L	I	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								A	L	L	L	L
22								L	L	L	C	C
23								L	L	L	L	L
24								L	L	L	L	L
25								I	L	L	L	L
26								L	L	C	L	L
27								C	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Mean												
Median												
Count										1		1

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h' F2
Unit Km
Month July 1958

TABLE 7—Contd.
Ionospheric Data
75 0° E Mean Time

Latitude . 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	L	L	L							1
L	L	L	L	L	L							2
L	L	L	LH	L	L							3
LH	LH	L	LH	L	L							4
L	L	LH	L	L	L							5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
LH	L	L	L	L	L							11
LH	L	L	L	L	L							12
LH	LH	L	L ^{u4} L ¹⁵ L	L	L							13
L	L	LH	LH	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	C	L	L	L	L							30
L	L	L	L	L	L							31
												Mean
												Median
			1									Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h' F2
 Unit . Km.
 Month July 1958

TABLE 7—Contd.
 Ionospheric Data
 75 ° E Mean Time

Latitude . 10 2° N
 Longitude : 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	C	C
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4							L	L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11							L	L	^{U335L} L	L	L	L
12							L	L	L	L	L	LH
13							L	L	L	L	L	LH
14							L	L	L	L	LH	LH
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21							L	L	L	L	L	L
22							L	L	L	L	L	L
23							L	L	L	L	L	L
24							L	L	L	L	L	L
25							L	L	L	L	L	L
26							L	L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	L
29							L	L	L	L	L	L
30							L	L	L	L	L	L
31							L	L	L	L	L	L
Mean												
Median												
Count									1			

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic h' F2
 Unit : Km.
 Month July 1958

TABLE 7—Contd.
 Ionospheric Data
 75° E Mean Time

Latitude : 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	L	L	L								1
L	L	L	L	L								2
L	L	LH	L	L								3
LH	L	L	L	L								4
LH	LH	LH	L	L								5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
LH	L	L	L	L	L							13
u300LH	LH	LH	LH	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
												Mean
												Median
1												Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic h' F
Unit - Km
Month July 1958

TABLE 8
Ionospheric Data
75 ° E Mean Time

Latitude : 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U405F	U370F	U320F	250F	220	220	270	240	225	210	C	C
2	U365F	300	280	270F	235	220	270	215	225	220	215	210H
3	305	U310F	U280F	240	225	240	265	245	230	215	205H	210H
4	U380F	U405F	U450F	U445Γ	U420F	U400F	275	245	235	215	210H	205
5	U340F	U340F	U360F	345Γ	280	245	270	240	240A	225B	215	215
6	400	340	305	240	200	225	270	245	230	220	200H	200H
7	320	330	300	260	220	220	270	250	235	215H	205H	200H
8	380	360	340	295	240	220	275	240	230	205	205H	200H
9	360	295	310	225	320	F	290	240	235	220	200H	215
10	235	240	240	230	220	240	260	240	220	215H	215H	200H
11	325	315	315	300	230	225	245	240	230	220	220	220
12	305	280	265	250	250	220	250	240	230	220	200H	215
13	385	F	370	300	245	230	260	250	230	215	200	200
14	U385F	U350F	U325F	280	250	225	270	240	235	220	U235A	220
15	345	320	295	280	240	210	245	235	240	225	215	200H
16	295	305	350	340	280	220	260	240	230	220	205	200
17	U430F	U380F	340F	275	220	220	260	240	220	215	200H	200H
18	C	280	265	240	210	220	255	230	220	205	220H	215
19	320	330	340	275	210	240	260	240	220	210	210	200H
20	300	260	220	225	240	240	260	240	225	220	205	200
21	300	300	285	240	225	220	C	A	A	220	210	200
22	280	310	480	535	U440Γ	385	275	245	230	U235A	C	C
23	300	280	265	265	235	220	260	235	235	215	215	205H
24	310	290	285	240	220	220	270	240	225	205	200	200
25	420	380	335	320	260	235	270	240	225	220	210	205H
26	U380F	355F	400F	350F	240	210	265	240	240	C	205	200H
27	315	320	265	245	240	240	275	C	C	C	C	215
28	400	340F	340	360	300	220	270	260	240	225	220	215
29	370F	340	280	250	240	225	280	240	240	B	240	210
30	365	370	300	260	240	220	275	245	230	230	215	210
31	320	280	280	260	245	235	280	245	230	220	220	215
Mean	345	320	315	285	255	235	265	240	230	220	210	205
Median	340	320	305	265	240	220	270	240	230	220	210	205
Count	30	30	31	31	31	30	30	29	29	28	28	29

Sweep 1 Mc. to 25 Mc in 27 seconds

Characteristic h' F
Unit Km.
Month July 1958

TABLE 8—Contd
Ionospheric Data
75° E Mean Time

Latitude : 10 2° N
Longitude . 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	200H	235	255	290	360	U430F	U400F	430F	400F	1
200H	200	210H	A	225	250	290	U400F	U510F	U460F	U400F	U310F	2
205H	210	210	220	230	A	A	U370F	U405F	U380F	U340F	U360F	3
200H	205H	200	215	225	255	295	400F	U400F	U420F	U325F	U360F	4
205H	200	220	220	A	245	U295F	U410F	F	F	F	U410F	5
200H	220H	220H	230H	225	245H	A	400	400	340	390	F	6
230H	200H	220H	A	A	A	A	390	F	440	F	400	7
200H	200	215H	A	240H	240	295	400	F	F	F	415	8
215	215H	225H	220H	220	235H	280	340	400	340	300	260	9
195H	200H	220H	220	230	260	295	395	380	400	380	C	10
200	215H	200	215	235	255	290	365	U475F	F	U405F	385	11
210	B	200H	A	250	255	290	370	F	F	300F	U390F	12
200H	270	215	225	235	255	280	330	F	U395F	390	U375F	13
205	200H	200H	230	240	265	280	350	445	F	F	U400F	14
200	200	210	225	230	260	280	345	F	U375F	340	300	15
200	200	205H	205	230	C	280	320	F	F	F	F	16
200H	200H	200	220	230	240	280	320	U360F	U360F	400F	380F	17
200	200	205	200	230	240	260	320	360F	U400F	380	370	18
180H	180H	210	A	235	260	275	300	340	320	305	300	19
B	200	210	210	230	A	A	320	340	330	330	330	20
200	200	200	220	220H	240	275	340	U320F	U420F	U400F	U350F	21
C	215H	205H	220	AH	245	285	355	F	F	F	330	22
200H	210	210H	215	205	245	280	360	315	F	U400F	F	23
190H	220	205	220	230	255	275	360	440	F	F	F	24
200	205	215	225	230	250	280	360	400	U425F	410	375	25
200H	200H	U230B	220	225	250	285	380	425	475F	F	U360F	26
220	210	220	215	240	260	295	400	F	F	480	460	27
220	210	210	220	240	260	300	390	375	420F	F	F	28
210	205	U260A	240	235	A	300	380	U490F	F	390	380F	29
215	C	240	240	240	260	290	400	440L	420F	400F	440F	30
210	220	220	220	240	260	295	380	420F	420L	375	340F	31
205	205	215	220	230	250	285	365	405	400	375	365	Mean
200	220	210	220	230	255	285	365	400	400	390	375	Median
28	28	30	26	28	26	27	31	22	21	22	25	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic · h' F
 Unit : Km.
 Month · July 1958

TABLE 8—Contd
 Ionospheric Data
 75 ° E Mean Time

Latitude · 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	U390F	U370F	U295F	225	215	270						
2	330	280	280	255	225	255	275	230	220	220	C	C
3	320	U275F	U260F	225	220	260	255	235	225	215	215	205H
4	U380F	U435F	U450F	U440F	U405F	350	250	235	220	215	205H	210H
5	U360F	U360F	355F	U320F	250	280	255	235	220	220	205	205H
6												
7	340	330	280	230	220	275	260	240	220	200H	200H	200
8	340	340	280	225	220	270H	260	240	220	215	205H	200H
9	370	360	315	260	240	275	260	240	220	205	205H	200H
10	320	300	225	300	400	360	260	240	220	210	205H	200H
11	240	240	240	220	220	275	250	230	220	220H	210	200H
12	310	300	320	280	200	240	250	230	220	225	220	210
13	290	260	265	245	240	230	U260A	235	225	240	215H	215
14	380	390	340	280	255	260	250	235	225	205	210	200
15	U360F	F	300	260	240	250	260	240	225	215	225	210
16	330	310	290	260	220	240	240	235	230	215	210	200H
17	300	320	360	310	240	245	250	235	230	210	200	200
18	U420F	U360F	300F	240	220	260	250	240	220	210	200H	180H
19	300	280	260	230	200	260	245	220	210	210	215	205
20	330	340	320	220	220	275	240	230	215	210	200H	195H
21	280	260	230	220	240	260	250	230	220	200	200	200
22	290	300	260	240	220	240	240	U260A	U240A	210	210	200
23	290	420	525	F	420	320	255	240	220	A	C	C
24	295	280	265	255	225	230	245	230	220	215	205H	205H
25	310	285	275	230	220	255	250	235	205	200	200	200
26	U400F	375	325	295	240	255	255	230	225	205	205	210
27	U360F	380F	400F	295	210	245	250	240	220H	C	200	220
28	310	290	245	240	240	260	250	C	C	C	210	220
29	400	360F	365	340	260	255	270	240	240	220	220	220
30	345	310	270	240	230	260	260	240	B	235	220	210
31	360F	325	280	245	230	240	250	240	230	220	210	215
31	290	285	260	260	240	255	260	240	230	215	220	215
Mean	335	325	305	265	245	265	255	235	225	215	210	205
Median	330	315	280	250	230	260	250	235	220	215	210	205
Count	31	30	31	30	31	31	31	30	29	27	29	29

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic : h' F
Unit : Km.
Month : July 1958

TABLE 8—Contd.
Ionospheric Data
75 ° E Mean Time

Latitude : 10 2° N
Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	200H	235	240	270	320	400	U420F	U430F	U425F	U390F	1
210H	U210B	220H	220	240	265	330	U465F	U510F	U440F	U340F	U280F	2
200	210	200H	225	A	A	A	U405F	U400F	U360F	U360F	370F	3
200H	205	215H	225	240	270	335	F	U420F	U360F	U360F	U340F	4
205H	200	A	225	240	265H	U340F	F	F	F	U400F	420	5
200H	205H	220H	220H	235	260	320	400	F	400	380	300	6
AH	215H	220H	A	A	A	340	460	F	440	F	400	7
200	220H	220H	235	220H	260	320H	400	F	F	400	360	8
200H	220H	220H	220	230	245H	315	F	360	320	280	240	9
185H	220H	220	230	A	270	310	F	430	F	F	360	10
215	B	220	220	245	280	320	U410F	F	F	385	340	11
200	220	220	U265A	245	275	310	430F	F	U285F	U340F	380	12
205H	215	220	230	240	270	295	U360F	F	U400F	380	U380F	13
200H	200H	210H	240	U260A	U290A	300	400	F	F	F	380F	14
190	205	230	225	235	U285A	300	360F	F	U365F	340	300	15
200	200	210H	220	245	260	300	390	F	F	F	U440F	16
200H	220	220	225	240	260	290	350	U360F	360F	400F	C	17
200	200	205	230	240	260	285	340	360F	385	380	340	18
180H	200H	210	220	240	260	280	310	320	300	300	300	19
200	200	210	220	240	280	A	340	330	320	340	320	20
215H	200	200	220	225	260	300	U300F	U340F	U440F	U360F	295	21
205H	195H	205H	220	240H	275	305A	400	F	F	U320F	305	22
200H	210	210	200H	215H	260	300	440	F	U380F	U400F	330	23
185H	210	210	225	235	260	290	U405F	430	500	F	410	24
205	200H	210	230	240	265	300	385	U420F	410	385	380	25
205	210	225	225	235	265	315	440	460F	U495F	F	320	26
205H	220	210	240	250	270	330	440	F	460F	470	440	27
220	215	215	225	250	280	320	420F	390	F	F	F	28
205	225	240	240	U260A	A	310	420F	460F	450	440F	370F	29
210	220	240	240	240	280	330	440F	F	460	420F	380F	30
220	220	215	230	B	280	320	400	440F	390F	370	340F	31
200	210	215	230	240	270	310	395	405	400	375	350	Mean
200	210	215	225	240	270	310	400	420	400	380	360	Median
29	29	30	30	27	28	29	27	17	23	24	29	Count

Sweep 1 Mc to 25 Mc 27 Seconds.

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31											
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A								
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
Mean	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
Median																																										
Count																																										

Sweep 1Mc to 25 Mc. in 27 Seconds

Characteristic : h' E
 Unit Km
 Month July 1958

TABLE 9
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2°N
 Longitude . 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	A	110	110							1
105	105	105	A	A	115							2
B	B	A	A	A	A							3
A	A	A	A	110	115H							4
A	B	A	A	A								5
A	A	110	105	105	115H							6
A	A	A	A	A	A							7
A	A	A	A	A	110							8
A	105	110	A	110	105							9
A	A	A	A	A	A							10
A	B	B	A	A	A							11
A	B	A	A	A	A							12
A	A	A	A	A	A							13
A	A	A	A	A	110							14
A	A	A	A	A	A							15
A	A	A	A	A	C							16
A	A	A	110	105	110							17
A	A	A	110	115	120							18
A	A	A	A	A	120							19
B	A	A	A	A	A							20
A	A	110	110	120	120							21
C	110	A	A	110	A							22
A	A	A	A	110	120							23
A	105	110	A	115	120							24
A	A	A	110	110	120							25
B	A	B	A	A	115							26
B	B	B	115	110	A							27
B	A	A	A	A	A							28
B	B	110	110	A	A							29
B	C	110	A	115	110							30
B	B	B	A	115								31
		110	110	110	115							Mean
		110	110	110	115							Median
1	4	7	7	16	16							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' E
Unit Km
Month July 1958

TABLE 9—*Concl.*
Ionospheric Data
75 ° E Mean Time

Latitude 10 20 N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							115	105	A	A	C	C
2							105	A	A	105	A	A
3							120	105	105	A	A	B
4							A	105	105	A	110	A
5								A	A	A	A	A
6							105	105	A	A	A	A
7							120	105	A	A	A	105
8								A	A	A	A	A
9							A	105	A	A	105	105
10							125II	A	105	105	A	A
11							120	110	A	A	A	A
12							A	A	105	A	A	A
13							115	105	105	A	A	A
14							120	A	A	A	A	A
15							115II	115II	110	A	A	A
16							120	110	105	105	A	A
17							120	115	110	A	A	A
18							110	A	105	C	A	A
19							A	110	A	A	A	A
20							120	110	110	105	A	A
21							120	110	110	A	A	A
22							115	115	A	A	C	C
23							105	A	A	A	A	A
24							115	110	105	A	A	A
25							110	110	A	A	A	A
26							105	120	B	C	A	B
27							120	C	C	C	B	B
28							120	120	B	115	B	P
29							110	110	B	B	B	B
30							120	110	115	B	A	B
31							115	110	A	A	A	B
Mean							115	110	105	105		
Median							115	110	105	105		
Count							25	22	13	5	2	2

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic h' E
Unit Km.
Month July 1958

TABLE 9—concl'd.
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

1230	1230	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	A	110	105								1
105	B	A	A	115	A							2
B	A	A	115	A								3
A	A	A	110	115								4
A	A	A	105	A								5
A	A	105	105	105	120H							6
A	105	A	A	A								7
A	A	A	A	A								8
105	105	110	A	105								9
A	A	A	105	A	A							10
A	B	B	A	A	A							11
A	A	A	A	A								12
A	A	A	A	A								13
A	A	A	110	105								14
B	A	B	A	A								15
A	A	A	A	110								16
A	A	115	110	115								17
A	110	110	115	115								18
A	A	A	A	120								19
A	A	A	A	A	A							20
A	110	110	110	120								21
A	A	A	105	110	120							22
A	A	110	A	110	120							23
A	A	A	120	115	130							24
A	A	A	110	115	130							25
A	A	A	A	115	125							26
B	B	120	110	110								27
A	A	A	115	110								28
B	A	110	110	A								29
B	110	A	115	110								30
B	B	A	115	B								31
	110	110	110	110	125							Mean
	110	110	110	110	120							Median
2	5	8	18	19	6							Count

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic $h' E_s$
Unit · Km.
Month : July 1958

TABLE 10
Ionospheric Data
75 ° E Mean Time

Latitude 10° 2' N
Longitude 77 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	120							105	100	100	C	C
2							G	100	100	100	100	100
3								105	100	100	100	100
4	110	120		115	105	105		100	100	100	100	100
5			110				105	105	100	100	100	100
6							G	100	100	100	100	100
7		100	95				105	100	100	100	100	100
8			115	110			105	100	100	100	100	100
9			100				110	100	100	100	100	100
10	95							115	100	100	100	100
11		115	115					G	100	100	100	100
12								110	100	100	100	100
13		125						G	100	100	100	100
14		115					G	100	100	100	100	100
15								G	100	100	100	100
16		115					G	G	100	100	100	100
17							G	G	100	100	100	100
18	C							105	100	100	G	100
19		120						140	100	100	100	100
20	120							G	100	100	100	100
21	110	110						120	120	100	100	100
22				115				G	G	105	C	C
23							155	115	100	100	100	100
24	110							115	G	100	100	100
25	120	110	115				105	105	100	100	100	100
26	105							125	100	C	100	100
27	115							C	C	C	C	100
28			120	110			140	G	G	100	100	100
29	120							100	100	100	100	100
30	110							100	100	100	100	100
31							110	100	100	100	100	100
Mean	110	115	110				115	105	100	100	100	100
Median	110	115	115				110	105	100	100	100	100
Count	11	9	7	4	1	1	8	22	27	29	27	29

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h' Es
 Unit Km
 Month July 1958

TABLE 10
 Ionospheric Data
 75 0° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
G	C	C	100	100	105	105				120	120	1
100	100	100	100	100	110	100				115		2
100	100	100	100	100	100	100	100	100	100	105	105	3
100	100	100	100	100	G	100			115	100	120	4
100	100	100	100	100	100	100						5
100	100	100	100	100	G	135					115	6
100	100	100	100	100	100	100				115		7
100	100	100	100	100	G	100				115		8
100	100	G	100	100	100	100						9
100	100	100	100	100	100	100					C	10
100	100	100	100	100	100	100	100			115	115	11
100	100	100	100	100	100	100	100		105	120		12
100	100	100	100	100	100	110				115	115	13
100	100	100	100	100	100	100	100	100				14
100	100	100	100	100	100	110	110			100	100	15
100	100	100	100	100	C	140					120	16
100	100	100	100	100	G	140		100				17
100	100	100	100	100	100	100					110	18
100	100	100	100	G	120				115	120	120	19
100	100	100	100	100	100	100	100	100	100	115	115	20
100	100	100	100	G	100					120	115	21
C	100	100	100	100	100	120	140					22
100	100	100	100	100	105						120	23
100	100	100	100	100	105		100	100	100		115	24
100	100	100	100	100	G				130	115	120	25
100	100	100	100	100	100	110	100	120			110	26
100	100	100	100	100	100	100	100			120	120	27
100	100	100	100	100	105	100	100		125	110	120	28
100	100	100	100	100	100	100	120			100	100	29
100	C	100	100	100	100	120	105				120	30
100	100	100	100	100	115				130	120	135	31
100	100	100	100	100	105	110	105	105	115	115	115	Mean
100	100	100	100	100	100	100	100	100	115	115	115	Median
29	29	29	31	29	25	23	11	5	9	18	21	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h'Es
Unit Km
Month July 1958

TABLE 10—*Concl'd*
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							105	100	100	100	C	C
2		115					105	100	100	100	100	100
3							G	100	100	100	100	100
4			115	110	105		105	100	100	100	100	100
5	115	115	115				105	100	100	100	100	100
6		105					105	100	100	100	100	100
7	110		90				G	100	100	100	100	100
8		120	115				110	100	100	100	100	100
9							100	100	100	100	100	100
10	100						G	100	100	100	100	100
11		110					G	100	100	100	100	100
12							105	105	100	100	100	100
13	125	120					G	100	100	100	100	100
14		115					110	100	100	100	100	100
15							105	G	100	100	100	100
16	110						G	100	100	100	100	100
17							G	100	100	100	100	100
18		105					100	100	100	C	100	100
19							120	100	100	100	100	100
20	115						G	100	100	100	100	100
21	110						140	120	100	100	100	100
22				110			G	G	100	105	C	C
23				100			115	100	100	100	100	100
24							G	G	100	100	100	100
25	110	110	110				105	100	100	100	100	100
26							135	125	100	C	100	100
27	115						105	C	C	C	100	100
28		115					G	G	G	100	100	100
29							100	100	B	100	100	100
30							100	100	100	100	100	100
31	120						100	100	100	100	100	100
Mean	115	115	110				110	100	100	100	100	100
Median	110	115	115				105	100	100	100	100	100
Count	10	10	5	3	1		20	26	28	28	29	29

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h' Es
Unit · Km.
Month July 1958

TABLE 10—*Concl'd.*
Ionospheric Data
75.0° E Mean Time

Latitude 10 2° N
Longitude . 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	100	100	105	105	100			120			1
100	100	100	100	G	105	100			120		115	2
100	100	100	100	100	100	100		100	110	105	100	3
100	100	100	100	100	110				115	115		4
100	100	100	130	100	100							5
				G	G				120		120	6
100	100	100	100	100	100	100		100		120		7
100	100	100	100	100	100	100			115	105	110	8
100	100	G	100	100	100							9
100	100	100	100	100	100						110	10
										115		11
100	100	100	100	100	100	100						12
100	100	100	100	100	100	100				120	120	13
100	100	100	100	100	100	130	100			120		14
100	100	100	100	100	105	110						15
												16
100	100	100	100	100	110	100	110	100			C	17
100	100	100	100	140	100	100			115	115	120	18
100	100	100	100	100	100	100				120		19
100	100	100	100	135	100				120	105	110	20
100	100	100	100	100	100	100	100	100				21
				G	100					115		22
100	100	100	100	100	130	115					125	23
100	100	100	100	100	G					120	110	24
100	100	100	100	105	S		100	100		120	115	25
100	100	100	100	G	G				120		110	26
										120	115	27
100	100	100	100	100	105	100	100		120	115	100	28
100	100	100	100	100	100	100			120	125	115	29
100	100	100	100	100	100	100			100	100	100	30
100	100	100	100	100	100					120	125	31
				G	110					120	130	31
100	100	100	100	105	105	100		100	115	115	115	Mean
100	100	100	100	100	100	100		100	120	120	115	Median
30	30	30	31	25	27	17	4	5	12	19	17	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic (M 3000) F₂

Unit

Month July 1958

TABLE 11

Ionospheric Data

75° E Mean Time

Latitude 10° 2' N

Longitude 77° 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	F	F	F	3 25 ^F	3 15	2 80	2 75	2 50	2 25	C	C
2	2 35 ^F	2 60	2 65	F	F	U3 10 ^F	2 80	2 45	2 50	2 30	2 20	2 15
3	2 60 ^F	F	F	3 00 ^F	3 20	3 15	2 95	2 85	2 55	2 35	2 20	2 10
4	U2 40 ^S	F	U2 15 ^S	F	F	F	2 80	2 65	2 40	2 25	2 10	2 10
5	F	F	F	F	F	3 05	2 70	2 50	2 40	2 25	2 20	2 20
6	F	F	F	F	3 15	U3 10 ^S	2 75	2 65	2 40	2 20	2 20	2 05
7	F	F	F	F	F	3 40	2 75	2 75	2 40	2 10	2 05	2 10
8	F	F	F	2 80 ^F	F	F	2 90	2 60	2 35	2 35	2 10	2 05
9	2 45	U2 60 ^S	S	2 95 ^F	F	F	2 55	2 55	2 40	U2 25 ^R	2 15	2 20
10	2 85	2 90	2 95	U3 00 ^S	3 25	3 30	3 15	2 95	2 65	U2 30 ^R	2 10	2 15
11	F	U2 50 ^F	2 55	2 70	3 25	3 40	3 05	2 90	2 70	2 35	2 15 ^{II}	2 20
12	F	F	2 80	2 85	U3 00 ^S	3 30	3 10	2 75	2 50	2 30	2 20	2 15
13	F	F	FS	U2 50 ^S	FS	3 10	2 90	2 80	2 60	2 25	2 15	2 20
14	F	F	F	F	F	U3 15 ^S	3 00	3 05	2 80	2 35	2 20	2 15
15	F	FS	U2 65 ^S	2 80	U3 05 ^{II}	U3 40 ^S	3 10	3 05	2 90	2 70	2 35	1 95 ^H
16	2 65	2 60	U2 55 ^S	2 55	2 80	U3 30 ^S	3 00	2 90	2 70	2 30	2 15	2 15
17	F	F	F	F	F	U3 30 ^R	U2 95 ^F	2 90	J2 75 ^R	2 35	2 10	2 30
18	C	2 75	J2 90 ^R	3 20	3 40	3 25	3 05	3 00	2 70	2 55	2 45	2 25
19	U2 60 ^F	2 60	2 60	U2 85 ^S	3 50	3 20	3 00	2 90	2 70	2 30	2 30	2 20
20	2 75	U3 10 ^S	J3 20 ^S	3 45	3 25	3 30	2 95	U3 05 ^S	2 80	2 60	2 40	U2 00 ^W
21	2 80	2 65	2 75	U2 90 ^S	3 30 ^S	3 30	C	A	2 90	2 60	U2 30 ^R	2 15
22	S	U2 60 ^S	2 05	2 20	F	U2 50 ^F	2 80	3 00	2 75	2 60	C	C
23	F	U2 60 ^F	F	F	3 00 ^F	3 30 ^F	F	3 00	2 70	J2 45 ^R	2 15	2 20
24	F	F	F	F	3 10	U3 45 ^F	U3 05 ^S	3 00	2 70	2 40	2 20	2 15
25	F	F	F	F	F	F	U3 00 ^R	2 80	2 45	2 10	2 10	2 15
26	F	F	F	F	3 00	3 45	3 00	3 05	2 75	C	2 15	2 10
27	F	F	F	F	3 00	3 10 ^F	2 90	C	C	C	2 15	2 15
28	F	F	F	F	F	3 20	2 95	2 90	2 75	2 60	2 35	U2 15 ^R
29	F	F	F	F	F	F	3 00	2 80	2 50	2 35	2 15	2 00
30	F	F	F	F	U3 00 ^F	3 20	3 00	2 85	2 45	2 25	2 10	2 05
31	F	F	F	F	F	3 00	2 85	2 60	2 40	U2 10 ^R	2 10	2 00
Mean	2 60	2 70	2 65	2 85	3 15	3 20	2 90	2 85	2 60	2 35	2 20	2 15
Median	2 60	2 60	2 65	2 85	3 15	3 20	2 95	2 85	2 60	2 30	2 15	2 15
Count	9	11	12	14	17	26	29	29	30	29	28	29

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic (M 3000)F₂

TABLE I I

Latitude 10 2° N

Unit ..

Ionospheric Data

Longitude 77 5° E

Month July 1958

75 0° E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	2 05	2 10	2 10	2 15	2 10	2 10	U2 10R	F	F	1
2 15	2 10	2 10	2 10	2 20	2 20	2 15	2 05	F	F	F	F	2
2 15	2 05	2 10	2 20	2 20	U2 25s	U2 25s	2 20	2 15	2 30	2 45	U2 40R	3
2 00	2 00	2 00	2 05	2 05	2 10	2 15	U2 05I	F	F	F	F	4
2 10	2 15	2 10	2 15	U2 25R	2 25II	U2 25s	F	F	F	F	F	5
2 00	2 10	2 10	2 25	2 30	2 30	2 35	2 15F	F	F	F	F	6
2 00	2 00	2 05	2 10	2 10	A	2 20	2 10	U2 00F	F	F	F	7
2 05	2 00	2 00	2 20	2 15	2 15	U2 25s	2 20	F	F	F	2 30R	8
2 20	2 20	2 20	2 15	2 10	U2 05R	U1 90s	U2 10s	2 00	2 15	2 55	U2 80s	9
2 15	2 10	2 20	2 25	2 30	U2 25s	U2 15s	FS	F	F	F	C	10
2 20	2 20II	2 20	2 20	2 15	2 10	2 20	2 15	2 05	U2 05F	2 15	F	11
2 05	2 05	2 10	2 25	2 30	2 25	2 25	2 15	F	F	F	F	12
2 20	2 20	2 25	2 25	2 30	2 25	2 25	U2 30s	2 30	U2 30s	2 35	F	13
2 10	2 10	2 10	2 10	2 20	U2 40s	U2 55s	2 35	U2 25s	F	F	F	14
2 20	2 05	2 15	2 15	2 25	2 35	2 40	2 35	J2 35I	U2 45s	2 55	FS	15
2 20	2 20	2 20	2 20	2 30	C	2 45	2 40	F	F	F	F	16
2 20	2 20	2 25	2 25	2 30	U2 40s	2 40	2 35	F	F	F	F	17
2 05	2 20	2 35	2 35	U2 40s	J2 35R	U2 40s	2 40	2 30I	U2 30s	U2 40s	U2 45I	18
2 15	2 25	2 40	J2 40R	J2 50R	2 60	2 65II	2 65	2 60	U2 60s	2 60	U2 65s	19
2 15	2 15	2 20	2 20	2 20	2 30	J2 50s	U2 50s	2 45	2 55	U2 55s	U2 65s	20
2 20	2 20	2 30	2 35	2 40	2 45	2 55	U2 45s	F	F	F	U2 55I	21
C	2 25	2 15	2 00	2 05	2 20	2 35s	2 30	U2 15s	F	F	F	22
2 15	2 10	2 10	2 10	2 10	2 25	2 30	2 25	F	F	F	F	23
2 10	2 10	2 20	2 15	2 15	2 25	2 25	U2 25s	2 15I	F	F	F	24
2 05	2 10	2 10	2 10	2 15	J2 30s	J2 35s	2 20	2 15	2 15	F	F	25
2 05	2 05	2 10	2 10	2 10	2 15	2 15	2 05	2 00	2 00	F	F	26
2 15	2 05	2 10	2 20	2 30	2 30	2 20	2 05	F	F	F	F	27
1 95II	2 00	2 05	2 05	2 10	2 15	U2 20s	2 10	F	F	F	F	28
2 00	1 95	2 05	2 10	2 20	2 25	U2 30s	2 15	F	F	F	F	29
2 05	C	2 05	2 05	2 05	2 05	2 10	2 00	F	F	F	F	30
2 05	2 00	2 00	1 95	2 00	2 10	2 20	U2 10s	2 00	2 10	2 20	2 15	31
2 10	2 10	2 15	2 15	2 20	2 25	2 30	2 20	2 20	U2 25	2 40	U2 50	Mean
2 10	2 10	2 10	2 15	2 20	2 25	2 25	2 20	2 15	U2 20	2 45	U2 50	Median
29	29	30	31	31	29	31	29	16	12	9	8	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic (M3000)F₂
Unit
Month July 1958

TABLE 11—*Concl'd*
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	F	F	F	3 35	2 95	2 75	2 70	2 35	2 20	C	C
2	2 45 2 60F	2 65	U2 70F	F	F	2 95	2 60	2 40	2 35	2 25	2 15	2 10
3	2 60F	F	F	U3 05F	3 15	2 85	2 90	2 65	2 45	2 30	2 15	2 15
4	U2 40F	U2 30F	U2 30F	F	F	F	2 75	2 50	2 35	2 15	2 05	2 00
5	F	F	F	U2 35F	U2 80F	2 90	2 50	2 50	2 30	2 20	2 15	2 10
6	F	F	F	F	U3 20S	2 95	2 65	2 55	2 25	2 25	2 15	2 05
7	F	F	F	F	3 15F	2 75II	2 80	2 50	2 25	2 10	2 10	2 05
8	F	F	F	F	F	U2 90I	2 80	2 45	2 30	2 20	2 15	2 10
9	U2 65S	U2 55S	U2 75S	2 75F	F	U2 25F	2 70	2 40	2 20	2 20	2 10	2 20
10	U2 85S	2 90	U2 90S	3 10	3 35	2 95	3 05	2 75	2 45	2 10	2 15	2 10
11	F	2 60	2 65	2 80	3 15	3 00	3 00	2 80	2 50	2 20	2 20	2 25
12	F	U2 75F	U2 80F	2 95	U3 10S	3 15	2 95	2 65	2 40	2 25	2 20	2 10
13	F	F	FS	U2 60S	2 85	3 00	U2 80S	2 75	2 45	2 20	2 20	2 20
14	F	F	F	F	F	U3 05S	U3 00S	U2 90R	2 50	2 20	2 20	2 15
15	FS	FS	2 75	2 90	U3 40S	U3 05S	3 20	3 05	2 75	2 50	2 15II	U2 10W
16	2 65	2 60	2 50	2 65	U3 10S	3 15	3 00	2 75	2 50	2 10	2 25	2 20
17	F	F	F	F	U3 40F	U3 00F	2 85	2 90	2 60	2 15	2 30	2 35
18	F	2 85	3 10	3 35	J3 40S	3 00	3 05	2 85	2 70	C	2 40	2 10
19	U2 60F	2 60	U2 70S	3 20	3 05II	2 85	3 00	2 80	2 40	2 25	2 30	2 15
20	U2 85S	U3 10S	U3 35S	3 30	3 30	2 90	3 00	2 70	2 50	2 50	U2 10R	U2 05W
21	U2 70S	2 65	2 80	U3 10S	U3 35S	3 10	3 10	3 00	2 80	2 50	2 25	2 20
22	2 95	F	2 10	2 25	2 50	2 65	2 90	2 85	2 65	2 55	C	C
23	U2 50F	F	F	F	U3 10F	F	F	2 85	J2 60R	2 30	2 20	2 25
24	F	F	F	F	3 30	2 95	3 00	2 85	2 55	2 20	U2 15R	2 10
25	F	F	F	F	F	F	U2 95F	2 65	2 20	2 10	2 10	2 10
26	F	F	F	F	3 25	2 75	3 05	3 00	2 60	C	2 05	2 10
27	F	F	F	2 95	3 00	U3 05F	2 70	C	C	C	2 15	2 20
28	F	F	F	F	2 95	2 90	U2 90S	2 80	2 70	2 45	2 25	U2 05R
29	F	F	F	F	F	3 00	U2 90S	2 60	U2 50R	2 20	2 05	2 05
30	F	F	F	U3 00F	U3 10S	3 00	2 90	2 60	2 35	2 25	2 15	2 00
31	F	F	F	2 90	F	2 85	2 75	2 50	2 20	2 20	2 10	2 05
Mean	2 65	2 70	U2 70	2 90	3 15	2 90	2 90	2 70	2 45	2 25	2 15	2 10
Median	2 65	2 65	U2 75	2 95	3 15	2 95	2 90	2 75	2 45	2 20	2 15	2 10
Count	11	11	13	17	23	28	30	30	30	28	29	29

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic (M 3000)F2
Unit
Month July 1958

TABLE 11—*Contd.*
Ionospheric Data
75° 0' E Mean Time

Latitude 10° 2' N
Longitude 77° 5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	2 00	2 05	2 05	2 10	2 15	2 10	2 10	F	F	F	1
2 10	2 10	2 10	2 20	2 20	U2 20s	U2 10	U2 00F	F	F	F	F	2
2 05	2 05	2 15	2 15	U2 25s	U2 30s	U2 20s	2 15	2 25	2 40	2 40F	U2 45s	3
2 00	1 95	2 05	2 10	2 05	2 20	2 15	F	F	F	F	F	4
2 15	2 15	2 10	2 20	2 30	2 25	U2 15s	F	F	F	F	F	5
2 00	2 05	2 20	2 30	2 30	2 35	U2 30s	F	F	F	F	F	6
2 00	2 00	2 05	2 10	A	U2 25s	2 20	2 05	U2 05F	F	F	F	7
2 00	1 95	2 10	2 20	2 15	2 25	2 20	F	F	F	F	2 45	8
2 25	2 20	2 20	2 10	U2 10R	U1 05s	U2 05s	2 00	F	U2 35s	U2 65s	U2 80s	9
2 10	2 15	2 30	2 25	2 25	U2 20s	U2 10s	F	2 05	U2 30F	F	F	10
2 25	2 10	2 15	2 20	2 10	2 15	2 20	2 15	F	U2 10F	FS	F	11
2 05	2 10	2 15	2 25	2 30	2 25	U2 20s	U2 05s	F	F	F	F	12
2 20	2 20	2 30	2 25	2 25	2 30	U2 25s	2 30	2 35	U2 30s	F	F	13
2 15	2 05	2 05	2 15	2 25	U2 50s	U2 55s	U2 40s	U2 15s	F	F	F	14
2 05	2 05	2 15	U2 20R	2 20	2 40	2 40	2 30	U2 35s	U2 50s	U2 55sF	2 70	15
2 10	2 20	2 20	2 25	2 15	U2 50s	2 55	2 30	F	F	F	F	16
2 25	2 25	2 25	2 30	2 10	2 45	2 10	2 35	F	F	F	C	17
U2 05W	2 25	2 35	2 35	J2 35R	J2 35R	U2 40s	U2 35R	U2 30sI	U2 30s	2 10	2 55F	18
2 20	2 30	2 10	U2 15s	2 50	2 60H	U2 70s	2 65	U2 65s	2 60	2 60	2 70	19
2 15	2 20	2 20	2 25	2 25	2 35	2 55	2 45	2 50	U2 55s	U2 60s	U2 75s	20
2 20	2 30	U2 35R	2 35	2 15	U2 60R	2 50	F	F	F	F	2 75	21
2 30	2 20	2 05	2 05	2 15	U2 25s	U2 15s	2 25	F	F	F	F	22
2 10	2 10	2 10	2 05	2 15	2 30	2 30	U2 05I	F	F	F	F	23
2 10	2 15	2 15	2 15	2 20	2 25	U2 25s	2 15	2 15	F	F	F	24
2 15	2 10	2 10	2 10	2 20	2 35	2 30	2 15	2 15	U2 25s	F	F	25
2 05	2 05	2 10	2 15	2 15	2 15	2 10	2 05	2 00	F	F	F	26
2 05	2 05	2 10	2 25	2 30	2 25	2 15	1 95	F	F	F	F	27
2 05	2 05	2 05	2 10	2 15	U2 25s	2 20	2 00	F	F	F	F	28
2 00	2 00	2 05	2 15	2 25	U2 30s	2 25	2 05	F	F	F	F	29
2 10	2 10	2 05	2 05	2 10	2 05	2 05	U1 07I	F	F	F	F	30
2 00	2 00	2 00	2 00	2 05	2 15	U2 15s	2 00	2 05	U2 15R	2 20	2 25	31
2 10	2 10	2 15	2 20	2 25	2 30	2 25	2 15	2 20	U2 35	2 50	2 60	Mean
2 10	2 10	2 10	2 20	2 20	2 25	2 20	2 15	2 15	U2 30	2 55	2 70	Median
30	30	31	31	30	31	31	25	14	11	7	9	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo F2
Unit Mc
Month August 1958

TABLE 12
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U9 0F	F	8 6F	8 6	7 7	6 2	U8 5s	11 2	U12 0s	12 4	12 1	11 8
2	10 9	10 5	U9 6s	U9 8s	U9 2s	7 3	8 4	10 7	U11 6s	11 3	11 0	10 7
3	C	U9 4s	U9 2s	8 3	U9 2s	9 2	U9 6s	U11 7s	12 5	12 5	11 6	11 0
4	10 6	9 8	U9 1s	8 6	8 5	U7 2s	8 5	10 6	11 4	11 6	11 1	U11 OR
5	F	F	10 8	U10 8s	U10 2s	7 7	7 8	10 4	11 6	J12 2R	12 0	11 1
6	U10 9r	U10 4r	10 5	U9 3F	6 5	4 2	U7 3s	10 2	11 8	12 2	11 3	10 1
7	F	F	10 5r	11 0	8 4	4 4	U7 2s	10 3	11 3	12 1	12 0	10 9
8	10 8	10 1	9 9	9 6r	9 6	5 8	U7 2s	10 4	11 2	10 8	10 5	10 4
9	F	U9 8r	U9 3s	U9 4s	8 3	F	7 1	10 0	11 1	10 6	10 1	C
10	F	F	F	10 11	8 0	6 3	7 7	9 9	11 4	12 0	11 2	10 8
11	F	F	F	F	8 6F	6 5	7 4	10 0	10 9	11 1	10 9	10 4
12	U10 3r	10 2	10 1	10 7	9 5	5 9	U7 5s	10 0	10 5	10 5	10 1	10 2
13	F	F	F	6 6	5 9	4 5	7 0	9 7	11 3	10 9	9 2	9 2
14	10 8r	10 9	10 9	11 0	10 9	8 0	U7 1s	9 8	11 3	11 4	10 4	10 0
15	F	U11 0F	10 7	10 0	F	F	F	U10 6r	11 2	9 8	10 0	10 0
16	F	10 7	F	F	7 2F	4 7	6 8	9 6	10 9	11 3	B	11 2
17	11 0	F	J9 6s	F	F	F	U7 2s	10 2	11 4	11 5	11 1	10 9
18	10 9	8 5	8 1	8 4	7 9	7 6	9 3	10 8	12 4	12 5	10 9	11 0
19	10 4r	U10 0F	F	F	U9 4r	7 5	7 8	10 8	12 2	12 6	12 3	11 3
20	J9 9F	F	9 0	8 9	8 5	6 8H	8 1	11 0	12 4	12 8	11 7	11 2
21	F	U9 4F	8 3r	F	7 8r	J7 3F	7 9	10 1	11 5	11 5	11 3	11 4
22	U11 6r	U11 3s	F	F	7 6	U6 2s	7 8	10 7	11 9	12 0	11 8	11 9
23	U10 2s	FS	U10 7s	J 11 1s	U9 6s	FS	FS	11 1	12 3	J12 OR	10 9	10 9
24	F	F	F	F	F	U7 4r	C	C	C	C	C	C
25	U7 9s	8 0	U7 9s	U8 0s	7 7	7 2	8 9	12 0	13 4	14 0	13 7	12 4
26	F	U9 9rs	9 0	8 6	U7 7s	6 2	8 0	11 4	13 0	13 7	U13 2R	11 9
27	11 4	10 7	9 6	8 9	8 3	6 8	7 8	11 0	12 5	12 5	11 2	10 4
28	FS	9 2	9 4	9 1	9 2	8 4	9 8	12 3	13 1	13 6	12 6	12 0
29	11 0	10 6	U9 6s	10 0	9 7	8 6	8 8	11 3	12 7	12 8	11 8	11 4
30	U11 8s	11 2	10 6	10 6	9 1	6 0	7 6	11 0	12 0	11 8	11 1	10 7
31	F	9 8	8 1	7 3	6 7	5 6	7 8	11 1	12 7	13 7	12 8	11 8
Mean	10 6	10 1	9 5	9 4	8 5	6 6	7 9	10 7	11 8	12 0	11 4	11 0
Median	10 8	10 1	9 6	9 4	8 4	6 8	7 8	10 6	11 7	12 0	11 2	11 0
Count	17	21	24	24	28	27	28	30	30	30	29	29

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic 10 F₂
 Unit Mc
 Month August 1958

TABLE 12
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude . 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11 5	11 6	11 8	11 6	11 1	11 0	11 1	U12 0s	U11 2s	U9 8s	U9 8s	10 6	1
10 8	10 4	10 6	10 7	10 8	10 9	10 7H	U9 6rs	U8 6r	F	U10 3r	F	2
10 6	10 9	11 1	11 6	A	12 4	12 7	U12 0s	U11 1R	U11 6r	U11 6s	U11 5s	3
10 8	11 0	10 9	10 8	10 8	10 5	10 7	10 4	U9 0r	U8 6r	F	F	4
10 5	10 0	9 6	9 6	9 8	10 0	J10 5R	10 0	U9 0r	F	F	F	5
9 6	9 5	9 5	9 3	9 5	9 7	U9 9s	9 3	U8 4r	F	U8 4r	U8 9r	6
10 2	9 8	9 7	9 8	10 2	10 9	11 4	10 6	9 7	9 8	10 6	10 9	7
10 2	10 2	10 4	10 7	11 0	11 1	11 4	10 9	F	F	F	F	8
C	9 5	9 9	10 2	10 0	10 5	10 5	U9 2r	U8 5r	F	F	F	9
10 7	11 5	12 1	12 3	12 7	13 1	12 2H	10 7H	F	F	F	F	10
10 5	10 8	11 0	11 3	11 4	11 6	U11 4R	U9 7s	U8 7r	F	U8 5r	F	11
10 7	11 6	12 5	12 8	12 9	12 9	U12 8s	U11 2s	F	F	F	10 5	12
9 0	9 8	9 9	10 0	10 7	11 0	11 4	10 7	U9 8s	9 7	U9 9s	10 0	13
9 7	9 7	9 9	10 1	10 6	11 1	11 1	U9 9s	F	F	F	F	14
10 0	10 1	10 1	10 3	10 8	11 6	U11 9s	10 8	F	F	F	F	15
10 2	9 8	9 8	9 6	9 5	10 0	10 0	9 0	F	F	F	U10 6r	16
10 7	10 0	9 4	10 0	10 8	10 9	11 4	10 5	U9 4s	10 5	11 4	13 4	17
11 6	11 8	12 5	13 0	12 9	12 2	U12 8R	U11 6s	11 1	11 4	11 4	U11 2r	18
11 0	11 2	11 4	11 1	11 7	11 6	10 9	9 2	U7 8r	F	U8 7r	F	19
11 3	10 9	10 8	10 7	10 6	10 3	J9 8s	8 7r	F	F	F	10 1r	20
11 1	11 3	11 6	11 1	10 9	10 8	10 5	9 5	F	F	F	F	21
11 8	11 8	11 8	11 3	10 5	U10 0s	U9 5s	U9 4s	U9 0s	8 8	8 8	U9 4s	22
10 8	10 9	10 9	U11 1s	11 1	10 9	S	8 1	F	F	F	F	23
C	C	10 0	9 5	9 4	9 8	U9 5s	9 0	7 9	U7 8r	7 6r	U7 8r	24
11 7	11 6	11 6	11 6	U11 4s	11 0	10 7	8 9	U7 5r	F	F	F	25
11 3	11 4	11 8	11 8	U11 7s	U11 9s	12 0	11 0	10 2	10 5	10 6	S	26
11 2	10 6	10 9	11 2	11 5	11 5	U10 6s	U9 8s	9 0	U9 8s	10 9	FS	27
11 3	11 2	11 0	10 8	10 9	11 1	11 0	9 6	F	F	S	U11 2s	28
10 9	10 7	10 7	10 6	10 8	11 6	11 6	11 0	11 4	12 5	13 5	13 3	29
10 9	10 1	10 3	10 7	11 0	11 1	11 2	10 2	U10 0r	F	F	F	30
10 8	10 5	11 3	11 8	11 7	12 4	12 9	11 5	11 0	11 5r	F	U13 0r	31
10 8	10 7	10 8	10 9	11 0	11 2	11 1	10 1	U9 4	10 2	10 1	U10 8	Mean
10 8	10 8	10 9	10 8	10 8	11 0	11 1	10 0	U9 0	9 8	10 3	U10 6	Median
29	30	31	31	30	31	30	31	21	13	15	15	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic fo F2
Unit Mc
Month August 1958

TABLE 12—Concl'd
Ionospheric Data
75° E Mean Time

Latitude 10° N
Longitude 77° 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	8 9F	8 6	8 2	6 8	6 8	U10 0s	U11 6s	12 4	12 3	11 8	11 6
2	10 8	U9 8s	U9 8s	9 6	8 6	6 8	U9 6s	11 6	11 8	11 1	10 9	10 8
3	U9 4s	U9 4s	8 8	8 6	U9 5s	8 2	10 8	12 1	12 6	U12 OR	11 2	10 7
4	10 7	U9 6s	8 8	8 8	8 0	6 7	U9 6s	11 0	11 4	11 1	U11 OR	10 9
5	F	U10 0F	10 8	U10 8r	F	6 3	9 5	11 0	U12 OR	12 1	11 7	10 9
6	U10 7r	10 4r	F	8 0	5 3	5 3	9 1	11 2	12 1	11 8	10 9	9 8
7	F	10 6r	10 7	U9 7r	5 8	U5 1s	9 0	11 0	11 8	12 2	11 6	10 5
8	10 7	10 0	U10 1s	9 9r	8 0	5 4	9 1	11 0	11 1	10 7	10 5	10 2
9	U10 0F	U9 6s	U9 6s	9 1	6 8	4 8F	8 7	11 0	11 1	10 4	10 1	10 1
10	F	F	10 5	9 1	7 1	6 4	9 0	11 0	11 7	11 6	10 9	C
11	F	F	F	F	7 9	U6 0s	8 9	10 7	11 1	11 2	10 7	10 4
12	10 5	10 4	U10 2r	10 7	7 4	5 7	8 9	10 5	10 4	10 6	10 0	10 4
13	F	U10 5r	7 6	6 3	5 7	4 8	8 7	10 9	11 5	10 C	9 2	9 2
14	11 1	11 0	10 7	10 7	9 7	5 5	8 8	10 6	11 5	11 1	10 9	9 8
15	U11 6s	F	10 5	F	F	F	F	J11 OR	10 9	9 5	10 2	10 0W
16	10 8F	F	F	8 0	6 2	4 8U	8 6	10 3	11 1	11 C	R	11 1
17	F	10 2r	8 7	F	F	5 0V	9 0	10 9	11 8	11 4	10 9	10 9
18	8 8	8 5	8 3	8 5	7 5	8 1	10 1	11 5	J13 OR	11 9	10 8	11 4
19	U10 11	U9 8r	F	F	U8 6r	5 9	9 4	11 6	12 6	12 6	11 7	11 0
20	F	U9 1s	9 0	8 7	8 0	6 1	9 8	11 9	12 9	12 8	11 4	11 3
21	F	U8 6r	F	U7 8r	U7 8r	6 4	9 3	11 0	11 7	11 3	11 4	J11 OR
22	11 4	FS	U8 0s	U7 6F	FS	5 8	9 3	11 5	12 3	11 8	11 9	11 8
23	FS	U10 1s	11 3	U10 4s	9 1	FS	U10 4s	11 8	12 3	11 5	10 8	10 9
24	F	F	F	F	F	U7 3r	C	C	C	C	C	C
25	U7 6s	U8 0s	U8 0s	8 0	7 6	7 2	10 6	12 8	13 9	J14 OR	12 8	12 0
26	F	FS	8 8	U8 2s	7 0	U5 8SH	10 2	12 5	13 5	13 8	12 8	11 6
27	11 0Z	10 2	9 1	8 6	8 0	5 6	9 7	12 0	12 4	12 1	10 3	11 0
28	9 6	9 5	9 0	9 2	8 6	8 4	11 0	13 0	13 7	13 1	12 3	11 7
29	10 7V	10 0	U9 8s	9 8	9 8	7 6	10 2	12 2	12 8	12 3	11 6	11 0
30	11 5	11 0	10 6	10 0	7 9	5 3	9 6	11 6	12 0	11 3	10 8	11 0
31	10 6	8 8	7 6	7 0	6 0	6 0	9 8	12 2	13 5	13 5	12 4	11 4
Mean	10 4	9 8	9 4	8 9	7 6	6 2	9 5	11 4	12 1	11 7	11 1	10 9
Median	10 7	9 9	9 1	8 8	7 8	6 0	9 5	11 4	12 0	11 7	10 9	11 0
Count	19	24	25	26	26	29	29	30	30	30	29	28

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo F2
Unit Mc
Month August 1958

TABLE 12--*Concl'd*
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11 6	11 8	11 8	11 3	11 0	11 0	11 4	U11 8s	10 5	U9 6s	10 2	10 8	1
10 5	10 5	10 6	10 8	10 8	11 0	U10 4s	F	F	U10 0r	F	C	2
10 8	U11 0r	11 4	11 8	12 3	12 4U	12 8	11 4	U11 2r	U11 6i	U11 6s	10 9	3
11 0	11 0	10 8	10 8	10 6	10 6	10 9	U9 2r	U8 6r	U8 8r	F	F	4
10 3	9 8	9 5	9 5	10 0	U10 2s	U10 3r	U9 5s	F	F	F	U10 5r	5
9 6	9 6	9 4	9 5	9 6	9 8	U9 7s	8 6	F	U8 9r	F	F	6
9 9	9 6	9 6	9 8	10 5	11 3	11 1	10 0	U9 7s	10 3	10 7	10 8	7
10 3	10 3	10 5	10 8	11 0	11 3	11 0	U9 8r	11 8r	F	F	F	8
9 6	9 8	10 2	10 0	10 4	10 4	U9 8s	U8 8r	U8 5r	U8 6r	F	F	9
10 9	11 9	12 4	12 1	13 0	12 8U	11 6U	F	F	F	F	F	10
10 7	10 9	11 1	11 4	11 5	11 7	10 7	8 9r	F	F	F	F	11
11 1	11 9	12 5	12 7	12 9	12 9	S	10 6	F	F	10 3	F	12
9 4	9 9	9 9	10 4	10 9	11 3	11 5	10 5	U9 8s	U9 7r	10 0	U10 2r	13
9 8	9 7	10 0	10 5	10 9	11 3	U10 9r	U8 8r	U8 8i	F	F	F	14
10 0	10 1	10 0	10 5	11 1	U11 9s	11 5	U9 0rs	U9 7r	F	F	F	15
10 0	9 8	9 6	9 6	9 5	10 2	U9 5s	F	F	F	F	U11 2i	16
10 3	9 7	9 6	10 4	10 9	11 2	11 3	U9 5s	10 4	11 0	12 4	13 0	17
11 8	12 0	12 9	U13 0r	13 0	U13 0r	11 8	11 4	11 2	11 4	11 6	11 0	18
11 2	11 2	11 4	11 6	11 6	11 5	10 1	8 4	F	U8 7i	F	F	19
11 2	10 6	10 9	10 7	10 4	10 3	9 4	U8 5i	F	F	F	F	20
11 0	11 5	11 5	10 9	10 8	10 7	10 0	U8 2r	F	F	F	F	21
11 7	11 9	11 6	10 9	10 0	9 8	U9 6s	U9 2is	8 9	U8 5s	U9 2s	U9 4s	22
10 8	10 9	11 0	11 0	10 9	U10 7s	U9 2rs	F	F	F	F	F	23
C	10 5	9 7	9 3	9 6	9 8	9 3	8 4	7 7	7 7	U7 8i	U7 9s	24
11 7	11 6	11 6	11 6	U11 2s	10 8	U10 0s	U7 6r	F	F	F	F	25
11 3	11 6	11 8	11 8	11 8	U12 1s	U11 7s	U10 1s	10 5	10 6	10 9	11 5	26
11 0	10 7	C	11 4	11 6	11 3	U10 4s	U9 2s	U9 4s	10 4	11 0	U10 5s	27
11 2	11 3	11 1	B	11 1	U10 9s	10 6	F	9 2	F	11 1	11 2	28
10 7	10 7	10 6	10 6	11 1	11 5	11 6	10 9	11 8	13 1	13 5	12 6	29
10 6	10 3	10 4	10 8	11 0	11 3	10 8	9 7	U10 5r	F	F	F	30
10 5	10 7	11 5	11 7	12 0	12 8	12 3	11 0	11 1	F	U12 0i	U13 0r	31
10 7	10 7	10 8	10 9	11 1	11 2	10 7	9 6	9 9	U9 9	10 9	11 0	Mean
10 8	10 7	10 8	10 8	11 0	11 3	10 8	9 5	9 8	U9 8	11 0	10 9	Median
30	31	30	30	31	31	30	26	18	16	14	15	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo F1
 Unit Mc
 Month August 1958

TABLE 13
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	I	L
2								L	L	I	L	L
3									L	L	I	LH
4									L	L	I	L
5								L	L	L	L	L
6								L	L	L	I	L
7									L	L	L	L
8								L	L	L	L	L
9								I	L	L	L	C
10								L	L	L	L	L
11								L	L	L	I	L
12								I	L	I	L	L
13									L	I	L	L
14									L	L	L	I
15									L	L	L	L
16								L	L	L	B	B
17							L	L	L	L	L	L
18								L	LH	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24							C	C	C	C	C	C
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								I	L	I	LH	LH
29								L	L	L	L	L
30								L	L	L	L	LH
31								L	L	L	L	LH
Mean												
Median												
Count												

Sweep 1 Mc to 27 Mc in 27 seconds.

Characteristic fo F1
 Unit Mc
 Month August 1958

TABLE 13
 Ionospheric Data
 75 0° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	LH							1
L	L	L	L	L	L							2
L	L	L	L	A	L							3
L	LH	L	L	L	LH							4
LH	LH	L	L	L	L							5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
C	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L	L							11
L	I	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	A							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	E	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	E	L	L	L	L							23
C	C	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
LH	LH	LH	L	L	L							27
LH	LH	LH	L	L	L							28
L	L	LH	L	L	L							29
L	L	LH	L	L	L							30
LH	LH	L	L	L	L							31
												Mean
												Median
												Count

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic fo F¹
 unit Mc
 Month August 1958

TABLE 13—*contd*
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	LH
6								L	L	L	L	L
7								L	L	L	L	L
8							L	L	L	L	L	L
9							L	L	L	L	L	C
10							L	L	L	L	L	C
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16							L	L	L	L	B	L
17							L	L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21							L	L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24							C	L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	LH
29							L	L	L	L	L	LH
30							L	L	L	L	L	LH
31								L	L	L	LH	LH
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic $f_o F^1$
 Unit Mc
 Month August 1958

TABLE 13—*contd*
 Ionospheric Data
 75° 0' E Mean Time

Latitude . 10 2° N
 Longitude . 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
LH	L	L	L	L								4
LH	LH	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	B	L	L								13
L	L	L	L	L								14
L	L	L	L	L	A							15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
LH	LH	C	L	L								27
L	LH	I	B	L								28
LH	LH	L	L	L								29
LH	LH	LH	L	L								30
LH	L	L	L	L								31
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo E
 Unit Mc
 Month August 1958

TABLE 14
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							A	A	A	A	A	A
2								A	A	A	A	A
3								3 I	A	A	A	A
4							A	A	A	A	B	A
5								A	A	A	A	A
6								A	A	A	A	A
7								A	A	A	A	A
8								A	A	A	A	A
9							2 I	3 I	A	B	A	C
10							4 0	A	A	A	A	A
11								A	A	A	A	A
12								A	A	A	A	A
13								A	A	A	A	A
14								A	A	A	A	A
15								A	A	A	A	A
16								A	A	A	B	B
17							2 I	A	A	A	A	A
18								A	A	A	A	A
19							1 8	A	A	A	A	A
20								2 9	A	A	A	A
21								A	A	A	A	A
22								A	A	A	A	A
23								U3 1A	A	A	A	A
24							C	C	C	C	C	C
25								U2 9R	A	A	A	A
26								R	A	A	A	B
27								3 0	A	A	A	B
28								A	A	A	A	A
29								A	A	A	A	A
30								A	A	A	A	A
31								U3 3F	A	A	A	A
Mean								3 0				
Median								3 1				
Count							4	7				

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo E
Unit Mc
Month . August 1958

TABLE 14—*contd.*
Ionospheric Data
75.0° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	Δ	A	Δ	A							1
A	B	Δ	A	Δ	A							2
A	A	Δ	A	Δ	A							3
A	B	Δ	A	Δ	A							4
A	A	Δ	A	Δ	A							5
A	A	Δ	A	Δ	A							6
B	A	Δ	A	Δ	2 9							7
A	A	Δ	4 0	Δ	A							8
A	A	Δ	A	Δ	Δ							9
C	A	Δ	A	Δ	U2 9A							10
A	A	Δ	A	Δ	Δ							11
A	A	Δ	A	Δ	Δ							12
A	A	Δ	B	R	R							13
A	B	Δ	A	Δ	Δ							14
A	A	Δ	A	Δ	Δ							15
B	B	A	A	A	A							16
A	A	A	A	U3 5F								17
A	A	B	A	U3 7A	.							18
A	A	Δ	A	A	F							19
A	A	Δ	A	U3 5A	U2 9A							20
A	A	Δ	Δ	A	A							21
A	B	Δ	A	A	A							22
A	A	Δ	A	A	A							23
C	C	Δ	A	A	A							24
A	Δ	Δ	A	Δ	Δ							25
B	A	A	A	A	U2 8A							26
A	A	A	A	A	A							27
A	A	A	A	B								28
B	A	A	A	A								29
A	A	A	A	A								30
Δ]	Δ	A	A	A	A							31
												Mean
												Median
			1	3	4							Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic foE
Unit Mc
Month August 1958

TABLE 14--contd
Ionospheric Data
75° E Mean Time

Latitude 10° N
Longitude 77° 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							A	A	A	A	A	A
2							A	A	A	A	A	B
3							2 7	U3 4A	A	A	A	A
4							A	A	A	A	A	A
5							2 8	A	A	A	A	A
6								A	A	A	A	A
7								A	A	A	A	A
8							2 6	A	A	A	A	A
9							2 7	A	A	A	A	C
10							A	A	A	A	A	C
11							2 6	A	A	A	A	A
12							A	A	A	B	A	A
13							2 7	A	A	A	A	A
14							R	A	R	A	A	A
15							R	A	A	A	A	A
16							A	A	A	A	B	B
17							2 6	A	A	A	A	A
18							A	A	A	A	A	A
19							2 2	A	A	A	A	A
20							2 6	3 3	A	A	A	A
21							2 5II	A	A	A	A	A
22							U2 7R	A	A	A	A	B
23							U2 7R	A	A	A	A	A
24							C	C	C	C	C	C
25								3 3	A	A	A	A
26								A	A	A	A	B
27							2 6	A	A	A	A	A
28								A	A	B	A	A
29							2 6	A	A	A	A	B
30							2 7	A	A	A	A	A
31							2 7	A	A	A	A	A
Mean							2 6					
Median							2 6					
Count							16	3				

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic fo E
 Unit Mc
 Month August 1958

TABLE 14—contd
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude . 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A								1
A	A	A	A	A								2
A	A	B	A	A								3
B	A	A	A	A								4
A	A	A	A	A								5
												6
A	A	A	A	A	A							7
A	A	A	A	A								8
A	A	4 1	3 8	A								9
A	A	A	A	U3 2A								10
												11
A	A	A	A	A								12
A	A	A	A	R								13
A	A	A	A	A								14
A	A	A	A	A	A							15
												16
B	A	A	A	A	A							17
A	A	A	A	3 2								18
A	B	A	A	A								19
A	A	A	A	A	A							20
												21
A	A	3 9	A	3 0	A							22
A	B	A	A	A								23
A	A	A	A	A								24
C	A	A	A	A								25
A	A	A	A	A								26
												27
A	A	A	A	U3 3A								28
A	A	C	A	A								29
B	A	A	A	B								30
A	A	A	A	U3 4A								31
												31
A	A	A	A	3 2								Mean
												Median
												Count
		2	1	6								

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic foEs
Unit Mc
Month August 1958

TABLE 15
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1		4 6	2 2				6 6	10 6	9 8	10 4	11 0	11 0
2		6 6						8 4	10 0	10 4	11 2	11 2
3	C	3 2						G	8 6	10 2	11 4	11 0
4	7 0	4 2	3 6				9 0	9 6	10 0	10 2	11 6	12 0
5	8 0							8 0	11 0	9 4	11 0	11 0
6								8 0	9 6	10 6	11 0	11 4
7	4 8		4 5				8 0	11 0	11 0	11 0	11 4	11 6
8		2 6						8 6	12 0	11 0	12 0	11 8
9	6 0						G	6 8	10 8	11 0	12 0	C
10	5 0						G	10 0	10 0	11 0	11 4	12 0
11		U7 08						8 0	10 0	10 4	11 0	11 4
12								9 0	10 6	11 0	11 4	12 0
13								8 2	11 0	11 0	11 4	11 4
14								10 0	10 0	11 0	11 6	11 4
15								8 6	9 6	9 8	11 2	11 0
16							4 0	7 8	9 4	10 6	B	B
17							G	9 0	9 6	10 8	11 2	11 6
18							3 3	7 8	10 2	11 0	10 6	11 4
19	3 1	4 7	6 8	4 6			G	3 5	9 0	10 6	11 4	11 8
20								G	7 6	9 6	10 8	10 4
21								8 8	10 2	10 8	10 6	11 0
22								8 2	6 8	10 7	11 0	11 3
23								8 6	10 6	11 2	12 0	12 0
24							C	C	C	C	C	C
25								G	9 2	11 6	11 4	12 3
26								G	10 4	10 6	11 8	12 1
27	5 0							8 4	9 6	11 0	11 2	11 6
28							4 2	8 0	9 0	10 6	12 0	11 6
29								8 2	10 4	11 0	11 0	12 0
30							2 8	9 0	10 0	11 2	12 0	11 8
31								G	10 0	10 4	11 2	11 0
Mean	5 6	4 7					5 4	8 5	9 9	10 7	11 3	11 5
Median	5 0	4 6					3 3	8 2	10 0	10 8	11 4	11 5
Count	7	7	4	1			11	30	30	30	29	28

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic 10Es
 Unit Mc
 Month August 1958

TABLE 15—*contd*
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11 4	10 6	11 0	11 0	9 2	8 0	8 0	4 0	2 3				1
11 1	11 1	11 0	10 8	8 5	7 0						3 0	2
11 0	11 6	11 1	11 6	20 0	8 5	4 4	3 5					3
11 6	11 0	11 2	10 6	9 1	8 0	6 8	7 6		2 8	4 0	7 2	4
11 0	11 6	11 1	11 1	10 6	9 1	9 0	6 0	2 6		6 4		5
11 0	11 1	12 0	11 0	10 0	8 8						6 2	6
11 6	11 6	12 0	11 2	9 0	6 4	7 6					3 2	7
11 0	11 0	11 0	11 0	7 6	8 1	U7 05				3 1		8
C	11 1	11 1	10 0	8 0	7 0	7 6				2 5	6 0	9
11 0	15 0	18 6	13 0	13 2	8 8							10
11 6	11 6	11 0	10 6	11 0	10 0						5 0	11
11 0	17 0	10 6	12 0	8 0	6 8							12
12 0	11 1	11 6	11 2	10 0	8 0	7 0						13
11 6	11 2	11 1	11 0	8 8	8 0							14
11 6	11 0	11 1	11 6	12 0	12 2	12 0				4 4	7 0	15
G	11 0	11 0	11 0	9 4	7 6	3 8	2 4					16
11 1	10 8	11 1	10 8	8 1	8 0				3 4			17
11 6	11 1	7 8	8 8	8 5	7 0					3 6	4 2	18
11 1	11 1	11 5	11 0	8 4	7 8					2 0		19
11 2	10 8	11 0	11 0	8 6	7 8							20
10 6	10 1	10 1	10 6	8 7	6 6							21
11 8	12 0	11 1	11 0	9 4	8 0							22
11 8	12 1	12 0	11 1	10 1	8 4							23
C	C	10 8	11 0	9 1	7 8							24
11 6	11 8	11 3	11 0	10 1	8 3							25
11 1	11 6	11 6	11 0	9 1	8 0	2 6		2 0	2 2	2 1	2 4	26
11 6	11 1	11 1	10 4	9 0	7 6							27
12 0	12 0	12 0	11 6	B	8 0							28
11 1	11 6	11 6	11 0	9 6	6 8		2 1	5 0			3 6	29
11 1	11 0	11 6	11 6	9 0	8 0					4 0		30
11 2	11 2	11 0	11 0	8 8	6 8				5 0			31
11 4	11 6	11 4	11 0	9 7	8 0	6 9	4 7		3 7	3 6	4 8	Mean
11 4	11 4	11 1	11 0	9 2	8 0	7 0	4 0		3 4	3 6	4 6	Median
29	30	31	31	30	31	11	5	4	5	9	10	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foEs
Unit Mc
Month August 1958

TABLE 15—contd
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	4 4	3 0					9 0	8 6	10 0	11 2	11 2	11 2
2							7 0	9 6	10 6	11 6	11 4	11 4
3							G	6 8	9 2	11 4	11 0	11 0
4		3 0	7 0				11 0	9 0	10 0	11 2	12 0	11 4
5	4 2						7 0	10 6	10 0	10 6	11 0	11 0
6								3 8	10 0	11 2	11 6	11 4
7			3 8				8 8	10 8	11 4	12 0	11 0	12 0
8	2 8	4 0	2 3				6 4	10 0	11 0	11 8	11 0	11 4
9	5 0						7 0	9 8	10 8	12 0	12 0	C
10	7 4						8 0	11 0	10 4	11 6	11 3	C
11			2 4				6 8	9 0	9 6	11 4	11 6	11 0
12	3 4						8 0	9 4	10 6	11 2	11 8	11 4
13					8 7		G	9 0	10 8	11 8	11 6	11 2
14							7 8	10 4	10 8	11 6	11 0	11 6
15							7 0	9 6	10 0	11 4	11 0	12 0
16							6 8	8 4	10 6	11 8	B	10 4
17							6 4	9 4	10 1	11 6	11 4	11 2
18							10 6 9s	8 8	10 2	10 6	11 3	11 4
19	2 7	10 0s	7 7	3 6			4 0	8 6	10 6	11 6	12 0	11 1
20	6 4						G	G	9 8	10 7	10 8	10 6
21							G	10 6	10 0	10 4	11 0	10 8
22							10 6 9s	7 7	9 7	10 9	11 4	11 0
23							4 2	9 2	11 2	11 2	11 7	12 0
24							G	C	C	C	C	C
25								G	10 1	11 8	11 7	12 1
26							.	10 2	9 6	11 5	12 1	11 7
27							7 0	9 0	10 4	11 4	11 7	11 8
28							4 0	8 6	10 0	11 4	11 6	11 6
29							G	10 0	11 0	11 4	12 0	11 6
30							3 2	9 4	11 0	11 4	11 2	11 6
31							G	8 8	10 0	11 4	11 6	11 4
Mean	4 5		4 6				6 8	9 3	10 3	11 4	11 4	11 4
Median	4 3		3 8				6 8	9 1	10 2	11 4	11 4	11 4
Count	8	4	5	1	1		27	30	30	30	29	28

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic foEs
Unit Mc
Month August 1958

TABLE 15—*contd*
Ionospheric Data
75 0' E Mean Time

Latitude 10 2° N
Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
10 8	11 0	11 0	10 0	9 0	8 6	8 0						1
11 6	11 4	11 6	9 0	8 6	7 0				2 4	3 8	C	2
11 4	11 8	10 4	11 3	13 2	4 2	4 2	2 8				8 6	3
11 0	11 6	11 0	8 6	8 8	U6 6s	3 0			6 0	4 6	4 0	4
11 4	11 4	11 4	10 1	10 4	10 0	8 0	4 2					5
11 5	12 0	11 0	10 4	8 8	7 0					6 0	4 0	6
11 8	12 2	11 7	10 0	7 4	6 7	5 0					3 2	7
10 6	11 0	11 4	8 0	9 0	8 0							8
12 0	11 6	12 0	8 6	8 6	8 0					5 0	7 0	9
11 6	19 4	18 6	17 0	9 8	8 0						2 5	10
11 6	11 4	11 0	10 0	10 8	8 0					4 4	U7 0s	11
11 2	12 4	9 6	10 2	9 0	6 0							12
11 0	11 8	B	10 0	9 6		5 4						13
11 4	11 4	11 0	9 0	8 8	6 8							14
11 0	11 6	11 8	10 0	11 4	16 0	6 0				10 0		15
11 0	11 2	11 6	10 0	8 7	U5 8s							16
10 8	11 1	11 0	10 9	8 2	7 0				3 2			17
11 3	G	9 8	8 2	8 2	S				2 8	3 1		18
11 7	10 8	10 8	9 0	7 8	S							19
11 4	11 1	11 0	9 4	8 4	6 6							20
10 2	10 8	10 8	8 8	7 7	S							21
10 6	11 3	11 2	10 6	8 6	U7 1s					2 0		22
11 6	12 1	11 5	10 6	9 1	7 8						U4 0s	23
C	10 7	11 0	9 8	8 2	U6 5s							24
11 8	11 6	11 2	10 8	8 8	U7 1s							25
11 6	11 8	11 1	10 0	8 0	U7 0s		2 1				5 6	26
11 8	11 0	C	9 4	8 4	6 4							27
12 0	11 8	11 6	B	8 4	6 6							28
11 6	11 4	11 0	9 8	8 0	6 0				4 2	5 0		29
12 0	12 0	11 2	10 0	9 0	5 4				3 6	4 4	4 4	30
11 2	11 0	11 2	9 0	7 4								31
11 4	11 7	11 4	10 0	8 9	7 3	5 6			3 7	4 8	5 0	Mean
11 4	11 4	11 1	10 0	8 7	7 0	5 4			3 4	4 5	4 2	Median
30	31	29	30	31	26	7	2	1	6	10	10	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fbEs
Unit Mc
Month : August 1958

TABLE 16
Ionospheric Data
75 0° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1		1 7	1 7				2 3	3 4	3 6	4 0	1 4	4 5
2		2 2						3 2	3 7	4 2	4 4	4 6
3	C	3 2							3 8	4 2	4 4	4 6
4		2 2					2 4	1 0	3 6	4 1		4 6
5								3 0	3 8	4 1	1 2	4 5
6								3 2	3 8	4 1	4 4	4 5
7	2 1		2 1				2 6	4 2	4 1	4 1	4 3	4 5
8								3 0	3 9	4 5	4 4	4 7
9	2 0							3 1	3 8		4 4	C
10	2 4							3 0	3 7	4 1	4 1	4 5
11		2 2						3 0	3 5	4 1	4 3	4 6
12								3 0	3 5	3 9	1 6	4 6
13								3 0	3 6	1 0	1 3	4 5
14								3 0	3 7	1 2	4 4	4 7
15								3 1	3 6	4 1	4 4	1 6
16								3 0	3 7	4 2		
17								3 2	3 7	4 0	1 4	4 7
18							2 3	3 2	3 6	1 2	4 4	4 5
19	1 9	2 3	2 8	1 8				3 0	3 6	1 0	4 3	4 6
20									3 8	4 4	4 5	4 6
21								3 0	3 7	4 0	4 4	4 4
22								3 1	3 7	1 0	4 5	4 7
23								3 1	3 2	4 4	4 5	4 8
24							C	C	C	C	C	C
25									3 7	4 2	4 5	4 8
26									4 1	1 5	1 6	4 9
27								3 1	3 7	1 2	1 5	4 9
28							2 8	3 3	3 8	1 2	4 6	4 8
29								3 0	3 9	4 3	4 4	5 0
30								3 4	4 0	4 2	4 5	4 8
31								.	3 8	1 2	4 6	4 8
Mean		2 3					2 5	3 2	3 7	4 2	1 4	4 7
Median		2 2					2 4	3 1	3 7	4 2	4 4	4 6
Count	4	6	3	1			5	25	30	29	28	28

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic 1bEs
Unit Mc
Month August 1958

TABLE 16—*contd*
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4 4	4 5	1 3	1 0	3 8	3 0	3 8	2 8					1
4 8		1 4	4 0	3 7	3 0						2 2	2
4 8	4 5	1 1	4 5	Λ	3 2	2 4	2 2					3
4 6		1 4	3 9	3 6	3 0	2 1			1 9		2 8	4
4 7	4 5	4 4	4 0	4 0	3 7	4 4	3 1	2 2		2 2		5
4 6	4 6	4 4	1 1	3 6	3 0						2 5	6
	4 7	4 4	4 1	4 0	3 3	3 1					2 0	7
1 6	4 4	4 3	4 2	3 6	3 4	2 6				2 1		8
C	4 6	4 5	4 0	3 6	3 0	2 7				1 8	2 4	9
4 6	5 4	4 3	5 5	5 0	3 9							10
1 6	1 5	4 4	4 1	4 0	3 2						3 0	11
1 6	5 5	5 0	5 2	3 8	3 3							12
4 6	1 6	1 3	1 3	3 7	3 0	2 6						13
4 6	1 6	1 1	3 9	3 7	3 0							14
1 6	1 4	4 2	1 2	4 3	7 2	5 0				2 0	3 0	15
		4 6	1 0	3 6	3 0	2 6	1 5					16
4 7	4 7	1 1	3 9	3 6					1 9			17
4 6	1 5		4 2	3 7						2 6	2 6	18
1 7	1 6	1 1	4 0	3 8								19
4 8	4 7	4 1	4 1	3 6	3 0							20
4 6	4 1	4 3	3 9	3 5	3 0							21
5 0		4 5	4 0	3 6	3 0							22
4 8	4 6	4 4	4 0	3 7	3 0							23
C		4 5	1 1	3 8	3 0							24
4 6	4 6	4 4	4 2	3 7	3 0							25
4 9	4 7	1 1	4 2	3 6	3 0	2 0		1 6	1 7	1 9		26
4 8	4 6	4 4	4 0	3 8	3 0							27
5 0	1 8	4 4	4 0									28
4 8	4 8	4 5	4 2	3 6	3 0			1 8	1 8			29
4 8	4 6	1 5	4 0	3 8	3 0					2 2		30
4 6	1 6	4 4	4 0	3 6	3 0				1 9			31
4 7	1 6	1 1	4 2	3 8	3 3	3 1			1 8	2 1	2 6	Mean
4 6	1 6	1 4	1 0	3 7	3 0	2 6			1 9	2 1	2 6	Median
27	26	30	30	30	27	11	4	3	5	7	8	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic f_oF₂
 Unit Mc
 Month August 1958

TABLE 16—*contd*
 Ionospheric Data
 75° 0' E Mean Time

Latitude 10° 2' N
 Longitude 77° 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1 9	2 1					2 8	3 4	4 0	4 2	4 4	4 6
2							2 7	3 4	4 0	4 2	4 6	
3								3 4	4 0	4 4	4 6	4 6
4			2 2				3 4	3 4	4 0	4 4	4 6	4 6
5								3 9	4 0	4 2	4 4	4 6
6								3 4	3 9	4 2	4 6	4 8
7							3 4	3 7	4 3	4 3	4 5	4 6
8	1 9	1 8	1 7				2 6	3 3	4 2	4 5	4 6	4 6
9	2 2						2 6	3 4	4 0	4 5	4 6	C
10	2 6						2 7	3 5	4 0	4 1	4 4	C
11							2 6	3 3	3 8	4 2	4 4	4 6
12							2 6	3 3	3 7		1 5	4 6
13								3 4	3 8	4 2	4 4	4 3
14							2 6	3 5	4 0	4 3	4 6	4 6
15							2 6	3 3	3 9	4 2	4 6	4 6
16							2 6	3 4	4 0	4 2		
17								3 4	3 9	4 2	4 5	4 7
18							2 7	3 6	4 0	4 2	4 5	4 6
19	2 0	2 4	2 4	1 8			2 7	3 3	3 8	4 3	4 4	4 6
20	3 0								4 0	4 3	4 6	4 7
21								3 4	3 7	4 2	4 4	4 6
22							2 6	3 4	3 9	4 2	4 6	4 6
23							2 7	3 5	4 0	4 5	4 7	4 9
24							C	C	C	C	C	C
25									3 9	4 4	4 7	4 8
26								3 8	4 2	4 5	4 6	4 9
27								3 5	4 0	4 4	4 6	4 7
28							2 8	3 6	4 0	4 5	4 6	5 0
29								3 6	4 2	4 4	4 7	5 0
30								3 6	4 0	4 5	4 6	4 8
31								3 6	4 0	4 4	4 8	4 8
Mean	2 3						2 7	3 5	4 0	4 3	4 6	4 7
Median	2 1						2 7	3 4	4 0	4 3	4 6	4 6
Count	6	3	3	1			17	18	30	29	29	26

Sweep 1 Mc to 25 Mc in 27 seconds

III

Characteristic f_bE_s
 Unit Mc
 Month August 1958

TABLE 16—*contd.*
 Ionospheric Data
 75° 0' E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.5	4.6	4.2	4.0	3.1	4.6	3.0						1
4.8	4.6	4.2	4.0	3.4	2.8					1.7	C	2
4.6	4.6		5.0	5.2	2.8	2.2	2.0				2.6	3
	4.6	4.1	3.9	3.3	2.6				3.0			4
4.8	4.4	4.2	4.0	3.9	4.2	4.2	2.6					5
4.6	4.4	4.2	4.0	3.4	2.6					2.1	2.0	6
4.7	4.6	4.2	4.1	3.6	2.9	2.5					2.0	7
4.7	4.4	4.3	4.0	3.3	3.1							8
4.8	4.7	4.2	3.8	3.3	3.2					2.1	2.1	9
5.0	5.4	5.1	6.6	3.4	2.6							10
4.8	4.4	1.3	3.9	3.7	2.8						2.4	11
4.7	5.6	4.2	4.3	3.5	2.7							12
4.7	1.5		1.0	3.3		2.6						13
4.6	4.1	4.3	3.9	1.3	2.6							14
1.6	4.5	1.2	4.0	5.2	8.0	2.3				3.2		15
	4.6	1.1	3.9	3.3	2.8							16
4.7	4.6	4.2	3.8		2.8							17
4.6			4.3	3.4					2.0	2.2		18
1.6	4.4	4.2	3.9	3.4								19
4.8	4.5	4.2	3.9	3.2	2.6							20
1.6	4.4	4.0	3.8	3.2	2.7							21
4.6	4.5	1.2	3.9	3.3	2.5					1.6		22
4.7	4.6	4.3		3.4	2.6						2.1	23
C	1.7	4.3	3.9	3.4	2.6							24
4.8	4.5	4.2	3.9	3.3	2.6							25
4.8	1.5	4.2	4.0	3.4	2.6			1.7			2.0	26
4.8	4.5	C	3.8	3.4	2.5							27
4.8	4.7	4.3	B		2.6							28
4.8	4.7	4.5	4.0	3.3	2.6				2.2			29
4.8	4.6	4.3	3.9	3.3	2.5				3.0	2.4	2.4	30
4.8	4.6	4.2	3.9	3.3								31
4.7	4.6	4.3	4.1	3.5	3.0	2.8				2.2	2.2	Mean
4.7	4.6	4.2	3.9	3.4	2.6	2.6				2.1	2.1	Median
28	30	27	29	29	27	6	2	1	4	7	8	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fmin
Unit Mc
Month August 1958

TABLE 17
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2 0	1 1	1 4	1 7	1 7	1 8	1 6	2 1	2 4	2 6	3 0	3 0
2	1 6	1 6	1 6	1 9	2 0	1 7	2 1	2 1	2 4	2 8	3 1	3 4
3	C	2 1	1 9	2 0	2 1	2 0	2 2	2 4	2 8	3 0	3 0	3 2
4	2 4	1 9	1 8	1 8	1 9	1 7	1 8	2 2	2 4	3 0	1 8	3 5
5	2 2	2 4	2 2	1 8	1 7	1 7	2 2	2 1	2 5	3 0	3 2	3 6
6	2 9	2 6	2 0	2 3	2 4	2 1	2 6	2 3	2 7	2 8	3 0	3 8
7	1 6	1 6	1 6	1 7	2 1	2 3	2 4	2 2	2 7	2 7	2 6	3 4
8	1 7	1 6	1 6	1 6	2 0	1 8	2 2	2 0	2 5	3 1	3 0	3 2
9	1 6	1 6	1 4	1 4	1 9	1 6	1 6	2 1	2 7	5 3	3 2	C
10	2 2	2 0	2 2	2 1	1 9	1 7	1 7	1 9	2 3	2 7	3 1	3 2
11	2 0	1 6	1 5	1 7	1 6	1 6	2 0	1 8	2 4	2 8	3 0	3 5
12	2 0	2 0	1 9	1 6	1 6	1 6	2 1	2 0	2 4	3 0	1 7	3 7
13	2 1	1 9	1 8	1 9	2 0	1 7	2 1	2 0	2 3	2 8	2 8	3 6
14	2 0	2 0	2 0	1 5	1 7	2 1	2 4	2 1	2 7	3 5	3 2	3 6
15	1 7	1 6	1 5	1 7	1 7	1 7	2 1	1 8	2 3	2 8	3 0	3 4
16	2 4	2 3	2 2	1 8	1 7	1 7	2 2	2 0	2 4	3 0	B	7 2
17	2 2	1 9	2 1	1 6	2 0	1 9	1 9	1 9	2 4	3 8	3 3	3 8
18	1 8	1 9	1 7	1 8	1 8	1 6	2 0	2 2	2 6	3 2	3 2	3 6
19	1 6	1 6	1 6	1 5	1 5	1 8	1 5	1 9	2 2	2 8	3 0	3 4
20	2 3	1 7	1 6	1 7	1 8	1 8	2 3	2 4	2 5	2 9	3 1	3 2
21	1 9	1 9	1 8	1 9	2 2	1 8	2 1	2 0	2 3	2 6	2 9	3 1
22	1 6	1 7	1 9	1 6	2 0	2 2	2 1	1 9	2 2	2 8	3 0	3 5
23	1 9	1 4	1 1	1 7	1 6	1 7	2 4	3	2 5	3 0	3 1	3 7
24	1 7	1 9	1 5	1 7	1 6	2 0	C	C	C	C	C	C
25	1 9	1 6	1 5	1 7	1 6	1 8	2 1	2 2	2 5	2 9	3 3	3 3
26	1 6	1 9	1 7	1 8	2 1	1 6	2 5	2 8	3 0	3 4	3 5	1 2
27	1 5	1 7	1 9	1 9	1 7	1 8	1 8	2 0	2 3	3 0	3 0	1 1
28	1 5	1 4	1 4	1 5	1 7	1 5	1 7	2 0	2 5	3 0	3 0	1 0
29	1 8	1 9	2 0	1 7	1 6	1 7	2 0	2 1	3 0	3 0	3 2	3 8
30	1 8	2 2	2 0	1 7	1 9	1 7	1 9	2 2	2 5	3 0	2 0	3 4
31	2 2	2 4	2 2	2 2	1 9	1 8	2 1	2 3	2 6	3 2	3 2	1 2
Mean	1 9	1 8	1 8	1 8	1 8	1 8	2 1	2 1	2 5	3 0	3 2	3 7
Median	1 9	1 9	1 8	1 7	1 8	1 7	2 1	2 1	2 5	3 0	3 1	3 5
Count	30	31	31	31	31	31	30	30	30	30	29	29

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic : fmin
 Unit Mc
 Month August 1958

TABLE 17—Contd
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77° 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.1	3.5	3.0	2.6	2.6	2.4	1.9	2.0	1.5	1.8	1.7	2.0	1
3.6	4.7	3.1	2.8	2.7	1.8	2.0	1.6	1.8	1.7	1.7	1.5	2
3.2	3.4	3.4	3.0	2.4	2.0	1.7	1.5	2.0	2.4	2.4	2.4	3
3.2	4.8	3.0	2.6	2.5	2.5	2.0	1.6	1.5	1.5	2.4	2.0	4
3.5	3.1	3.3	3.0	2.5	2.0	1.6	1.9	2.0	1.9	1.8	2.4	5
3.5	3.4	3.3	3.0	2.8	2.5	2.4	1.8	1.8	2.0	2.0	1.7	6
5.2	3.6	3.2	3.0	2.2	2.0	1.7	2.5	2.2	1.8	2.4	2.0	7
3.4	3.2	3.1	2.7	2.7	2.5	2.0	2.1	1.8	2.0	1.7	1.9	8
C	3.4	3.1	3.0	2.6	2.4	1.6	1.4	1.4	1.6	1.8	1.8	9
3.4	3.0	3.0	2.6	2.3	2.1	2.3	1.6	1.8	1.8	2.1	1.8	10
3.4	3.4	3.2	2.9	3.0	2.3	2.3	1.9	2.0	2.0	2.4	2.3	11
3.4	3.0	2.7	2.1	2.3	2.0	2.1	1.7	1.7	2.2	2.3	2.2	12
3.4	3.4	3.4	4.6	3.0	2.4	2.0	2.0	1.9	1.8	1.8	2.0	13
3.5	1.0	3.2	2.6	2.5	2.2	2.4	1.1	1.8	1.8	2.4	1.8	14
3.4	3.2	3.0	2.7	2.3	2.0	1.9	2.0	1.9	1.8	1.6	2.1	15
6.0	5.0	3.8	3.0	2.6	2.0	1.6	1.4	2.2	2.2	2.0	2.1	16
3.8	3.2	3.3	3.1	3.0	3.0	2.8	1.7	1.9	1.6	1.7	1.9	17
3.5	3.6	5.2	3.8	2.8	3.0	2.0	1.4	1.7	2.0	1.7	1.4	18
3.5	3.3	3.2	2.8	2.9	2.3	2.1	1.7	2.1	1.7	1.7	1.5	19
3.2	3.1	3.1	3.0	2.6	2.3	2.1	1.6	2.2	2.0	2.1	1.9	20
3.4	3.3	2.9	2.6	2.6	2.3	2.2	1.5	2.0	2.0	1.9	1.6	21
3.1	5.2	3.2	2.8	2.6	2.3	1.9	1.6	2.0	1.8	2.0	1.8	22
3.2	3.2	3.2	2.8	3.0	2.2	2.0	1.4	1.7	1.8	1.9	1.9	23
C	C	3.3	2.8	2.5	2.2	2.0	1.6	1.2	1.5	1.5	1.6	24
3.4	3.5	3.2	3.2	2.6	2.2	2.0	1.6	1.7	1.9	1.9	1.6	25
4.0	3.6	3.2	2.7	2.5	2.1	1.8	1.5	1.5	1.6	1.8	1.4	26
3.8	3.7	3.2	2.8	2.8	2.3	2.0	1.3	1.8	1.4	1.5	1.9	27
4.0	3.8	3.4	3.0	5.4	3.1	1.9	1.2	1.7	1.8	1.7	1.8	28
4.0	3.8	3.4	2.8	2.5	1.7	2.2	1.9	1.2	1.4	1.4	1.7	29
4.0	3.4	3.2	2.7	2.8	2.1	1.8	1.4	1.7	1.8	1.6	2.5	30
3.2	3.6	3.0	2.6	2.6	2.3	2.1	1.3	1.8	1.4	1.6	1.8	31
3.6	3.6	3.2	2.9	2.7	2.3	2.0	1.6	1.8	1.8	1.9	1.9	Mean
3.4	3.4	3.2	2.8	2.6	2.3	2.0	1.6	1.8	1.8	1.8	1.9	Median
29	30	31	31	31	31	31	31	31	31	31	31	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic f_{min}
Unit. Mc
Month August 1958

TABLE 17—cont'd
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude . 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1 5	1 4	1 6	1 7	1 8	1 7	2 0	2 2	2 6	2 8	3 0	3 0
2	1 5	1 5	1 7	1 8	1 7	1 8	1 6	2 2	2 5	2 6	3 2	4 8
3	2 4	2 2	2 0	1 8	2 2	2 0	2 2	2 5	3 0	2 8	3 3	3 2
4	2 1	1 9	1 6	1 7	1 8	1 7	1 8	2 3	2 7	3 4	3 8	3 6
5	2 4	2 2	2 0	1 7	1 6	2 0	2 1	2 3	2 8	3 0	3 6	3 6
6	2 6	2 4	2 4	2 2	2 3	2 5	2 8	2 4	2 7	2 8	3 0	3 6
7	1 7	1 7	1 6	1 9	2 2	2 4	2 0	2 2	2 5	2 7	3 0	3 4
8	1 9	1 8	1 4	1 8	1 8	2 2	1 7	2 3	2 7	2 8	3 1	3 4
9	1 5	1 5	1 6	1 5	1 8	1 5	1 8	2 3	2 9	3 2	3 2	C
10	2 0	2 3	2 4	2 0	1 8	1 9	1 7	2 1	2 5	2 7	3 2	C
11	1 8	1 8	1 9	1 6	1 5	1 7	1 7	2 1	2 4	2 7	3 1	3 6
12	2 0	2 5	1 9	1 6	1 6	1 7	1 7	2 1	2 7	4 6	3 8	3 6
13	2 2	2 0	1 5	2 0	1 8	1 6	1 8	2 2	2 6	2 8	3 2	3 3
14	2 0	2 0	1 7	1 6	1 7	1 8	1 8	2 5	3 0	3 4	3 6	3 5
15	1 8	1 7	1 5	1 6	1 8	1 6	1 6	2 3	2 6	3 0	3 0	3 6
16	2 3	2 3	1 9	1 6	1 7	1 7	1 8	2 1	2 6	3 0	3 3	6 1
17	2 0	2 0	1 8	1 9	1 9	1 9	1 9	2 2	2 8	3 0	3 3	3 9
18	2 0	2 0	1 8	1 7	1 6	1 8	2 0	2 4	2 9	3 2	3 4	3 5
19	1 4	1 6	1 6	1 4	1 8	1 8	1 6	2 0	2 5	3 0	3 1	3 5
20	1 6	1 8	1 6	1 5	1 8	2 0	2 2	2 8	2 8	3 0	3 3	3 1
21	1 9	1 7	1 8	2 1	2 0	2 2	1 7	2 2	2 5	2 8	2 9	3 3
22	1 7	1 9	1 7	1 8	1 8	2 1	1 7	2 1	2 6	2 7	3 4	3 8
23	1 7	1 8	1 6	1 7	1 4	1 8	2 3	2 5	2 7	3 0	3 3	3 5
24	1 9	1 6	1 6	1 5	1 7	2 4	C	C	C	C	C	C
25	1 6	1 4	1 6	1 4	1 7	2 1	2 7	2 4	2 7	3 2	3 2	3 4
26	1 7	1 5	1 6	2 2	1 9	1 9	3 0	2 8	3 4	3 5	3 7	3 9
27	1 4	2 2	1 8	1 9	1 8	2 0	1 8	2 2	2 6	3 1	3 1	3 9
28	1 4	1 5	1 6	1 8	1 6	1 7	1 8	2 2	2 6	4 5	3 7	4 0
29	2 0	1 4	1 8	1 5	1 7	1 9	1 9	2 4	2 8	3 0	3 6	4 0
30	1 7	2 1	1 9	1 8	1 9	1 9	2 2	2 4	2 8	2 8	3 2	3 4
31	2 4	2 2	2 0	2 0	1 8	2 4	2 1	2 4	2 8	3 2	3 8	3 4
Mean	1 9	1 9	1 8	1 8	1 8	1 9	2 0	2 3	2 7	3 1	3 5	3 6
Median	1 9	1 8	1 7	1 7	1 8	1 9	1 8	2 3	2 7	3 0	3 2	3 6
Count	31	31	31	31	31	31	30	30	30	30	30	28

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic f min
Unit Mc
Month August 1958

TABLE 17—contd
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.1	3.4	3.0	3.0	2.4	2.4	1.6	2.0	2.2	2.2	1.7	1.8	1
3.5	3.8	3.0	2.8	2.4	1.8	1.5	2.0	1.7	1.8	1.3	C	2
4.0	3.8	4.6	2.9	2.4	2.0	1.6	1.5	2.6	2.2	2.6	2.2	3
5.0	3.3	2.8	2.6	2.3	2.0	1.6	1.7	1.7	2.1	2.4	2.2	4
3.4	3.1	3.0	2.6	2.2	1.8	1.7	1.6	2.0	2.2	2.6	2.6	5
3.3	3.4	3.1	3.0	2.7	2.6	1.7	1.7	1.6	1.8	1.7	1.9	6
4.5	3.5	3.0	2.5	2.1	2.0	1.6	1.8	1.7	2.4	2.1	1.7	7
3.2	3.2	3.1	3.1	2.6	2.0	2.1	1.7	1.9	2.1	2.0	1.8	8
3.4	3.4	3.1	3.0	2.4	1.7	1.8	1.6	2.0	1.8	1.3	2.0	9
3.2	3.0	2.6	2.2	2.1	1.7	1.7	UI 6s	1.9	1.9	1.9	1.3	10
3.5	3.4	3.0	3.0	2.1	2.3	2.3	1.7	1.6	2.2	2.4	2.4	11
3.2	3.0	2.6	2.1	2.0	1.7	1.5	1.8	2.0	2.1	2.4	2.2	12
3.6	3.2	6.0	3.1	2.6	3.0	1.5	1.9	1.8	1.8	1.8	2.1	13
3.5	3.7	2.9	2.6	2.2	1.9	1.8	1.7	1.8	1.6	2.1	2.0	14
3.6	3.1	3.0	2.5	2.2	2.1	2.2	1.9	1.8	2.1	1.8	2.3	15
5.2	4.0	3.4	3.0	2.6	1.8	1.7	2.0	2.0	2.2	2.2	2.2	16
3.6	3.5	3.2	3.0	2.8	2.7	1.9	1.8	1.8	2.0	2.0	1.9	17
3.5	5.5	4.6	2.8	2.6	2.6	1.7	1.5	2.0	1.7	1.9	2.0	18
3.3	3.2	3.2	2.8	2.4	2.6	1.4	1.9	2.6	2.0	2.0	2.4	19
3.1	3.2	3.0	2.8	2.3	2.0	1.6	2.1	2.0	2.0	2.1	1.7	20
3.5	3.4	2.9	2.9	2.6	1.9	1.7	2.0	1.8	2.1	1.7	1.5	21
3.1	3.8	3.0	2.7	2.4	2.1	1.4	1.7	1.7	1.7	1.2	1.7	22
3.3	3.2	3.0	4.4	2.6	2.1	1.5	1.6	1.8	1.8	1.5	1.6	23
C	3.6	3.0	2.8	2.4	2.1	1.6	1.8	1.6	1.4	2.0	1.7	24
3.5	3.2	3.1	3.0	2.3	2.1	1.6	1.4	2.0	2.0	2.0	1.6	25
3.8	3.6	3.0	2.7	2.3	1.9	1.5	1.4	1.6	1.6	1.4	1.4	26
3.9	3.2	C	2.8	2.5	1.9	1.6	1.5	1.7	1.7	1.6	1.4	27
3.9	3.6	3.2	B	3.8	2.6	1.4	1.8	1.8	1.6	1.5	1.7	28
3.9	3.6	3.4	2.7	2.4	1.7	1.5	1.7	1.8	1.4	1.7	1.7	29
3.9	3.6	3.0	3.0	2.4	2.2	1.3	1.8	1.8	1.6	1.8	1.9	30
3.6	3.2	2.8	2.8	2.4	2.6	1.6	1.4	1.9	1.5	2.0	2.2	31
3.6	3.5	3.2	2.9	2.4	2.1	1.6	1.7	1.9	1.9	1.9	1.9	Mean
3.5	3.4	3.0	2.8	2.4	2.0	1.6	1.7	1.8	1.9	1.9	1.9	Median
30	31	30	30	31	31	31	31	31	31	31	30	Count

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic : F₂
 Unit Km
 Month August 1958

TABLE 18
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3									L	L	L	L
4									L	L	L	L
5									L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13									L	L	L	L
14									L	L	L	L
15									L	L	L	L
16									L	L	L	L
17							L	L	L	L	B	B
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24							C	L	L	C	L	C
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic · h'F₂
 Unit : Km
 Month August 1958

TABLE 18
 Ionospheric Data
 75 ° E Mean Time

Latitude : 10 2° N
 Longitude 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	I	L	L	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
L	L	L	L	L	L							4
L	L	L	L	L	L							5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	LH	LH	LH	L	L							10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
												Mean
												Median
..	I				.							Count

Sweep in 1 Mc to 25 Mc. in 27 seconds

Characteristic h'F₂
 Unit . Km
 Month August 1958

TABLE 18 *Contd*
 Ionospheric Data
 75 ° E Mean Time

Latitude . 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8							L	L	L	L	L	L
9							L	L	L	L	L	L
10							L	L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16							L	L	L	L	B	L
17							L	L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21							L	L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	L
29							L	L	L	L	L	L
30							L	L	L	L	L	L
31								L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc. to 25 Mc in 27 seconds

Characteristic . h'F2
 Unit Km
 Month . August 1958

TABLE 18—Contd
 Ionospheric Data
 75 ° E Mean Time

Latitude . 10 2° N
 Longitude 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L	L							9
L	LH	LH	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L	L							15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	LH	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic, h'F
Unit: Km
Month August 1958

TABLE 19
Ionospheric Data
75° E Mean Time

Latitude . 10 2° N
Longitude . 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	340	360	360	260	220	220	280	250	230	220	220	210
2	280	280	275	240	240	210	270	240	220	210	200	195
3	C	320	340	340	280	220	270	240	225	220	200	195H
4	260	260	260	260	230	220	280	260	220	215	U220B	220
5	310	280	275	250	220	220	260	240	225	220	215	210
6	300F	U280F	275	245	230	240	265	245	230	215	205II	200
7	350F	290F	255	230	225	240	265	A	235	220	205	205H
8	265	270	280	270	235	215	270	245	235	225	210H	210
9	U330F	300	270	255	215	215	265	245	230	B	215	C
10	U400F	U340F	250F	225	235	225	270	240	230	220	200II	200
11	395	F	270	240	230	220	270	240	225	220	210	200
12	300	290	280	255	215	215	270	245	220	210	220	210
13	310	260	220	225	220	215	260	240	220	220	200H	210H
14	280	260	255	240	220	200	260	240	225	220II	205	205
15	260	240	240	230	215	210	260	240	220	215	200II	205II
16	300	250	240	230	220	205	270	240	225	220	B	B
17	265	245	230	225	220	220	265	240	220	215	205	205
18	255	260	310	280	240	240	275	250	210H	220	220	200II
19	340	335	U310A	280	220	210	255	240	220	210	210	200H
20	260	240	240	230	225	215	265	245	225	220	210II	200H
21	265	240	235	230	225	220	260	240	225	210H	200II	210
22	240	230	240	250	240	235	275	245	230	225	215	210
23	295	260	250	240	230	230	280	245	230	220	215	220
24	280	240	265	255	240	230	C	C	C	C	C	C
25	290	260	245	245	230	220	260	245	225	220	220	215
26	280	240	235	240	235	220	280	255	240	230	210	U225A
27	260	250	255	240	225	215	270	245	230	220	220	210
28	245	260	260	255	250	245	280	250	235	220	210	210
29	255	240	260	260	270	220	270	245	235	215	210	225
30	255	240	240	240	225	210	270	245	240	215	210	210
31	260	240	235	235	220	230	275	255	235	230	205	210
Mean	290	270	265	250	230	220	270	245	225	220	210	210
Median	280	260	255	240	225	220	270	245	225	220	210	210
Count	30	30	31	31	31	31	30	29	30	29	29	28

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h'F
Unit · Km
Month August 1958

TABLE 19
Ionospheric Data
75 ° E Mean Time

Latitude : 10 2° N
Longitude · 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
210	205	200	220	225	240H	300	300	320	380	360	295	1
215	210	220	220	220	250	300	380	U340F	F	350F	360	2
220	200	210	U220A	A	240	280	375	U340F	U350F	300	265	3
200	200H	200	200	220	240H	290	380	460	440	400	340	4
200H	200H	200	220	U240A	260	U340A	400	475	420	410	U350F	5
215	210	200H	200	235	250	290	380	U470F	U420F	U400F	U370F	6
B	210	210	210	240	250	295	350	405	375	340	280	7
200	205	210	220	225	250	285	400	F	U380F	U425F	U350F	8
C	200	210	220	230	250	290	290	U400F	F	U460F	U430F	9
200	A	210	A	A	U270A	280	U425F	F	U460F	F	U380F	10
200	200	215	220H	240	260	295	400	460	420	370	370	11
205H	A	A	A	235	250	290H	370	380	440	380	340	12
200H	200H	200	B	240	250	290	340	400	370	365	340	13
210H	200H	215H	220H	230	250H	290	400	420	400	400	300	14
200H	205H	205H	220	260	A	A	380	400	380	400	345	15
B	B	215	215	235	250	290	440	F	F	320	325	16
200	205	210H	205	235	260	300	405	380	340	305	230	17
210	215	B	225	235	250	290	305	F	U360F	F	U340F	18
200H	200H	205	200	230	250	285	400	U445F	F	U350F	280	19
195H	200H	215	220	230	250	290	430	U375F	U410F	U370F	265	20
210	205	205	215	225	250	290	420	F	U455F	U310F	U245F	21
A	B	210H	220	230	260	300	410	F	380	380	305F	22
210	210	215	215	230	260	305	485	U470F	F	U350F	U205F	23
C	C	215	220	235	260	315	435	490	480	420	380	24
215	210	205	230	245	265	310	480	600	530	500	360	25
215	220	220	225	235	260	310	U440F	400	370	330	295	26
220	215	220	230	240	270	315	415	440	345	265	260	27
220	220	220	230	B	260	310	440	500F	350	290	280	28
220	215	210	230	240	265	300	400	360	290	265	255	29
215	205	200	210	240	265	300	420	U440F	U370F	345	300	30
200	215	220	220	230	260	305	425	420	365	320	280	31
210	205	210	220	235	255	300	400	425	395	360	315	Mean
210	205	210	220	235	250	295	400	420	380	355	305	Median
26	26	29	28	28	30	30	31	24	26	28	31	Count

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic h'F
Unit Km
Month August 1958

TABLE 19—Contd
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude . 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	350	380	320	230	220	275	260	240	220	220	220	210
2	275	280	260	240	220	240	250	230	215	200	200	U200B
3	340	340	340	300	240	240	255	235	230	200	200	220
4	260	260	260	240	220	240	260	230	220	220	220	210
5	280	280	260	240	220	240	250	240	220	215	210	200H
	U285F	280F	U260F	230	230	270	250	235	220	215	200H	220
7	305F	270	240	220	215	275	255	235	230	215	205H	200
8	265	275	280	260	210	245	250	230	230H	215	215	205
9	320	280	265	230	205	240	250	230	230	210	220H	C
10	U380F	U300F	245F	225	225	250	255	225	220	210	200H	C
11	360	300	260	235	220	235	255	235	220H	215	200	200H
12	290	300	275	225	205	240	255	235	215	B	215H	200
13	290	220	230	235	215	240	250	235	215	215	200H	205H
14	270	260	240	230	210	225	250	235	220	215	210	205H
15	240	250	240	210	205	220	250	240	220	200H	220H	215H
16	260	245	235	220	210	230	250	230	230	215	B	B
17	245	240	230	220	220	235	245	230	220	215	200	200
18	255	280	305	250	240	275	260	240	230	215	210	200H
19	335	325	U295A	240	220	220	245	230	220	205	205	205H
20	280F	230	230	225	220	230	250	235	225	205H	200H	200H
21	240	220	230	230	230	230	250	230	220	210	210	200H
22	230	230	245	240	230	260	260	240	230	220	210	215
23	275	265	245	235	225	240	260	240	230	220	210	220
24	280	250	270	240	220	240	C	C	C	C	C	C
25	260	260	250	240	230	240	260	240	230	220	220	215
26	250	225	230	240	220	250	260	245	220	225	215	220
27	245	250	240	230	220	235	255	235	225	220	200	210
28	255	260	260	245	250	260	260	240	220	220	215	210
29	240	240	260	265	240	230	255	235	230	210	215	220
30	245	240	240	235	215	230	260	240	220	230	220	210
31	245	240	230	225	230	250	260	240	230	220	215	210
Mean	280	265	255	235	220	245	255	235	225	215	210	210
Median	270	260	250	235	220	240	255	235	220	215	210	210
Count	31	31	31	31	31	31	30	30	30	29	29	27

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h'F
Unit Km
Month August 1958

TABLE 19—Contd
Ionospheric Data
75 ° E Mean Time

Latitude . 10 2° N
Longitude . 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
205	210	210	220	210	A	300	300	360	400	310	260	1
215	220	220	220	240	270	320	F	F	U360F	360	C	2
205	220	U220B	A	A	260	320	U360F	U360F	U315F	290	260	3
200H	200	200	220	240	260	320	420	500	420	370	320	4
200H	200H	200	225	U240A	310	350	460	440	420	400F	310F	5
210H	200	205	225	230H	260	325	430F	480	F	U410F	350F	6
215H	210	210	230	245	260	310	395	395	360	305	275	7
210	200	200	225	240	265	320	U440F	U400F	U440F	U405F	U360F	8
200	225	215	215	235	275	325F	F	F	U430F	U430F	U410F	9
A	A	A	A	245	265	335	F	F	U460F	F	380	10
210	200H	220H	230	250	275	340	440	480	380	370	325	11
215H	A	215	230	245	270H	315	380	380	F	360	320	12
200H	200H	B	225	240	270	315	365	390	380	360	320	13
200H	200H	210H	220	240H	260	320	F	340	300	F	280	14
205H	205H	215	235	A	A	320	420	400	F	375	325	15
B	215	210	220	240	275	330	F	U425F	F	315	300	16
200	200H	210	205	250	270	325	425	340	300	285	250	17
210H	B	U235B	240	245	270	315	380	F	U365F	345	330	18
200H	200H	200	220	240	270	325	U410F	U520F	U295F	U370F	275	19
200H	205	215	225	235	260	340	U460F	365	U390F	U340F	265	20
210	205	210	220	230	265	335	400	U400F	F	280	260	21
215	210H	220H	225	245	280	345	460	U400F	380	340F	305	22
210	215	220	235	250	280	360	U460F	U495F	U460F	290	U300F	23
C	220	220	225	250	280	370	480	460	450	410	340	24
215	200	215	235	250	280	365	535	580	530	U400F	310	25
215	220	220	215	250	280	370	U470F	U370F	335	315	280	26
215	220	C	230	255	290	365	430	400	300	260	240	27
220	210	210	B	260	280	375	500F	400F	310	280	270	28
205	210	230	235	250	275	345	390	320	280	260	255	29
210	205	210	235	255	280	360	490F	U390F	U370F	315	260	30
215	220	220	230	240	275	360	440	395	340	300	260	31
210	210	215	225	245	275	335	430	415	375	340	300	Mean
210	210	215	225	245	270	330	430	400	375	340	300	Median
28	28	28	28	29	29	31	26	27	26	29	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic : h'E
 Unit . Km
 Month August 1958

TABLE 20
 Ionospheric Data
 75.0° E Mean Time

Latitude . 10 2° N
 Longitude : 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							A	A	A	A	A	A
2								110	A	A	A	A
3								110	110	A	A	A
4							A	A	A	A	B	A
5								110	A	A	A	A
6								110	105	A	A	B
7									A	A	A	A
8								105	105	105	105	A
9							125	110	110	B	A	C
10							130	A	A	A	A	A
11								105	105	A	A	A
12								105	105	A	B	A
13								110	105	A	A	A
14								105	110	A	105	A
15								105	105	A	A	A
16								A	A	115	B	B
17							175	A	A	A	A	B
18								115	A	A	A	A
19							105	105	A	A	A	A
20							..	115	110	A	A	A
21								A	A	A	A	A
22								105	105	100	A	B
23								110	105	A	A	B
24							C	C	C	C	C	C
25								120	115	A	A	A
26								110	110	A	A	B
27								110	110	115	105	B
28								110	110	110	A	B
29								110	A	110	A	B
30								120	110	110	110	A
31								120	110	110	A	B
Mean								110	110	110		
Median								110	110	110		.
Count							4	23	18	8	4	.

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic . h'E
 Unit . Km
 Month . August 1958

TABLE 20
 Ionospheric Data
 75 ° E Mean Time

Latitude . 10.2° N
 Longitude . 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	110	A							1
A	B	110	110	110	A							2
A	A	A	A	A	A							3
A	B	A	A	110	110							4
A	A	A	A	A	A							5
A	A	A	A	110	115							6
B	A	A	110	A	A							7
A	105	A	A	A	A							8
C	A	A	A	110	115							9
A	A	A	A	A	A							10
A	A	A	105	A	110							11
A	A	A	A	A	105							12
A	A	A	B	120	115							13
A	B	A	A	A	A							14
A	A	A	A	A	A							15
B	B	B	A	105	A							16
B	A	A	A	120	.							17
A	A	B	B	115								18
A	A	A	A	115	120							19
A	A	A	A	115	120							20
A	A	A	105	A	A							21
A	B	A	A	A	A							22
A	A	A	A	105	A							23
C	C	A	A	110	105							24
A	A	A	A	A	A							25
B	B	A	A	A	115							26
A	110	115	110	110	110							27
B	A	110	110	B								28
B	115	110	110	110								29
B	110	110	110	110								30
110	A	A	110	110	120							31
		110	110	110	115							Mean
		110	110	110	115							Median
1	4	5	9	17	12							Count

Sweep 1 Mc. to 25 Mc in 27 seconds

Characteristic . h'E
Unit Km
Month August 1958

TABLE 20—Contd.
Ionospheric Data
75.0°E Mean Time

Latitude 10 2° N
Longitude : 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							A	A	A	A	A	A
2							A	110	A	A	A	B
3							120	110	110	A	A	A
4							A	A	A	A	B	A
5							110	110	110	A	A	A
6								110	A	A	A	B
7								A	A	A	A	A
8							105	105	105	105	A	A
9							110	110	105	A	A	C
10							A	A	105	A	A	C
11							105	105	A	A	A	A
12							105	105	105	B	A	A
13							110	105	105	105	A	A
14							110	105	105	A	A	A
15							110	A	A	A	A	A
16							110	A	A	A	B	B
17							120	A	A	A	A	B
18							120	105	A	A	A	A
19							105	A	A	A	A	A
20							120	115	A	A	A	A
21							100H	A	A	A	A	A
22							105	105	100	100	B	B
23							120	110	A	A	A	A
24							C	C	C	C	C	C
25								115	110	A	A	A
26								110	A	A	A	B
27							120	110	110	110	A	A
28								110	110	B	B	B
29							120	110	A	110	A	B
30							120	110	110	110	A	A
31							120	110	115	A	A	A
Mean							115	110	110	105		
Median							110	110	110	110		.
Count							21	21	14	6		..

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'E
 Unit Km
 Month August 1958

TABLE 20—Contd
 Ionospheric Data
 75 0° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	110	110								1
A	B	110	110	110								2
B	B	B	A	A								3
B	110	A	A	110								4
A	A	A	A	A								5
A	A	A	110	115								6
B	A	105	A	A	A							7
A	A	105	115	A								8
A	A	A	A	115								9
A	A	105	A	A								10
A	A	105	110	A								11
105	A	A	A	A								12
A	105	B	115	115								13
A	B	105	A	A								14
A	A	A	A	A	A							15
B	B	A	A	A	A							16
A	A	A	A	120								17
A	B	B	A	120								18
A	A	A	110	120								19
A	A	A	A	115	120							20
A	A	110	105	120	A							21
A	B	A	A	A								22
A	A	A	B	110								23
C	B	A	A	105								24
A	A	A	A	A								25
B	B	A	A	110								26
A	110	C	110	110								27
115	115	115	B	110								28
B	A	110	110	115								29
B	A	110	110	115								30
110	110	A	110	120								31
	110	110	110	115								Mean
	110	110	110	115	.							Median
3	5	10	13	18	1							Count

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic h'Es
 Unit : Km
 Month · August 1958

TABLE 21
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude · 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1		110	105				105	100	100	100	100	100
2		100						100	100	100	100	100
3	C	120						G	100	100	100	100
4	105	110	110				105	105	100	100	100	100
5	110							100	100	100	100	100
6								100	100	100	100	100
7	110		105				105	100	100	100	100	100
8		110						100	100	100	100	100
9	110						G	100	100	100	100	C
10	120						G	100	100	100	100	100
11		105						100	100	100	100	100
12								100	100	100	100	100
13								100	100	100	100	100
14								100	100	100	100	100
15								100	100	100	100	100
16							110	100	100	100	B	B
17							G	100	100	100	100	100
18							135	100	100	100	100	100
19	115	110	105	105			G	110	100	100	100	100
20							.	G	100	100	100	100
21								100	100	100	100	100
22								100	100	100	100	100
23								100	100	100	100	100
24							C	C	C	C	C	C
25								G	100	100	100	100
26								G	100	100	100	100
27	130							100	100	100	100	100
28							120	100	100	100	100	100
29								100	100	100	100	100
30							135	100	100	100	100	100
31							.	G	100	100	100	100
Mean	115	110					115	100	100	100	100	100
Median	110	110					110	100	100	100	100	100
Count	7	7	4	1			7	25	30	30	29	28

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h'Es
Unit Km
Month August 1958

TABLE 21
Ionospheric Data
75 ° E Mean Time

Latitude . 10 2° N
Longitude : 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	100	100	100	140				1
100	100	100	100	100	100	100					120	2
100	100	100	100	100	100	100	100					3
100	100	100	100	100	100	100	100		120	120	120	4
100	100	100	100	100	100	100	100	100		110		5
100	100	100	100	100	105						110	6
100	100	100	100	100	100	100	100				110	7
100	100	100	100	100	100	100	100			125		8
G	100	100	100	100	100	100	100			120	115	9
100	100	100	100	100	100	100						10
100	100	100	100	100	100	100					120	11
100	100	100	100	100	100	100						12
100	100	100	100	100	100	100	100					13
100	100	100	100	100	100	100	100					14
100	100	100	100	100	100	100	100			120	110	15
G	100	100	100	100	100	100	100	100				16
100	100	100	100	100	100	100			120			17
100	100	100	100	100	100	100				115	115	18
100	100	100	100	105	105	105				125		19
100	100	100	100	100	105	105						20
100	100	100	100	100	100	100						21
100	100	100	100	100	100	100						22
100	100	100	100	100	105	105						23
C	C	100	100	100	100	100						24
100	100	100	100	100	100	100						25
100	100	100	100	100	100	140		130	125	120	120	26
100	100	100	100	100	100	100						27
100	100	100	100	B1	105	105						28
100	100	100	100	100	100	100		120	120		125	29
100	100	100	100	100	115	115				120		30
100	100	100	100	100	100	100			120			31
100	100	100	100	100	100	105	100		120	120	115	Mean
100	100	100	100	100	100	100	100		120	120	120	Median
28	30	31	31	30	31	11	5	4	5	9	10	Count

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic h'Es
Unit Km
Month August 1958

TABLE 21—Contd
Ionospheric Data
75° E Mean Time

Latitude . 10 2° N
Longitude : 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	120	110					100	100	100	100	100	100
2							100	100	100	100	100	100
3							G	100	100	100	100	100
4		110	110				105	100	100	100	100	100
5	140						100	100	100	100	100	100
6								100	100	100	100	100
7			105				100	100	100	100	100	100
8	110	115	110				100	100	100	100	100	100
9	110						110	100	100	100	100	C
10	115						100	100	100	100	100	C
11	120		105				100	100	100	100	100	100
12							100	100	100	100	100	100
13					120		G	100	100	100	100	100
14							100	100	100	100	100	100
15							100	100	100	100	100	100
16							105	100	100	100	B	100
17							100	100	100	100	100	100
18							105	100	100	100	100	100
19	110	110	105	105			105	100	100	100	100	100
20	110						G	G	100	100	100	100
21							G	100	100	100	100	100
22							100	100	100	100	100	100
23							100	100	100	100	100	100
24							C	C	C	C	C	C
25								G	100	100	100	100
26								100	100	100	100	100
27							100	100	100	100	100	100
28							120	100	100	100	100	100
29							G	100	100	100	100	100
30							125	100	100	100	100	100
31							G	100	100	100	100	100
Mean	115		105				105	100	100	100	100	100
Median	110		105				100	100	100	100	100	100
Count	8	4	5	1	1		21	28	30	30	29	28

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic h'Es
Unit Km
Month August 1958

TABLE 21—Contd.
Ionospheric Data
75° E Mean Time

Latitude 10 2'
Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100	100	100						1
100	100	100	100	100	100	100			120	120	C	2
100	100	100	100	100	95	100	100				105	3
100	100	100	100	100	105	120			110	120	110	4
100	100	100	100	100	100	100	100					5
100	100	100	100	105	110					115	115	6
100	100	100	100	100	100	100					110	7
100	100	100	100	100	100							8
100	100	100	100	100	100					115	115	9
100	100	100	100	100	100						135	10
100	100	100	100	100	100					120	115	11
100	100	100	100	100	100							12
100	100	B	100	100		100						13
100	100	100	100	100	100							14
100	100	100	100	100	100	100				105		15
100	100	100	100	100	100							16
100	100	100	100	100	100							17
100	G	100	100	100	100				125			18
100	100	100	100	105	110				125	120		19
100	100	100	100	105	110							20
100	100	100	100	100	100							21
100	100	100	100	100	110					120		22
100	100	100	100	100	115						105	23
C	100	100	100	100	105							24
100	100	100	100	100	100							25
100	100	100	100	100	115			130				26
100	100	C	100	100	120						110	27
100	100	100	B	100	110							28
100	100	100	100	100	100				120	125		29
100	100	100	100	100	120				120	120	120	30
100	100	100	100	100								31
100	100	100	100	100	105	105			120	120	115	Mean
100	100	100	100	100	100	100	.		120	120	110	Median
30	30	29	30	31	29	7	2	1	6	10	10	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic (M₃₀₀₀)F₂
Unit
Month August 1958

TABLE 22
Ionospheric Data
75 ° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U2 35F	F	2 40F	2 70	3 10	3 05	U2 80s	2 65	U2 45s	2 25	2 20	2 15
2	2 75	2 90	U2 85s	U3 10s	U3 10s	3 30	3 00	2 70	U2 45s	2 25	2 20	2 10
3	C	U2 60s	U2 55s	2 55	U2 80s	U3 20s	U3 05s	U2 85s	2 65	2 30	2 10	2 10
4	2 90	3 00	U3 00s	3 05	3 15	U3 35s	3 00	2 75	2 40	2 20	2 25	U2 15R
5	F	F	2 85	U3 05s	U3 15s	3 35	3 10	3 00	2 60	J2 30R	2 25	2 15
6	2 80F	U2 80F	2 95	U3 15F	3 25	3 20	2 90	2 85	2 65	2 30	2 10	2 10
7	F	F	2 95F	3 00	3 40	3 30	3 00	2 90	2 60	2 35	2 15	2 05
8	2 75	2 85	2 75	2 80F	3 20	3 35	U2 90s	2 75	2 40	2 20	2 15	2 10
9	F	U2 70F	U2 80s	U3 10F	3 25	F	3 05	2 80	2 45	2 20	2 10	C
10	F	F	F	3 15F	3 15	3 10	2 90	2 70	2 50	2 30	2 10	2 10
11	F	F	F	F	3 00F	3 20	2 80	2 70	2 40	2 25	2 20	2 15
12	U2 55F	2 65	2 70	2 75	3 25	3 25	U2 90s	2 60	2 50	2 30	2 25	2 20
13	F	F	F	3 20	2 25	3 40	2 95	2 75	2 45	2 20	2 25	2 20
14	2 70F	2 90	2 90	2 95	3 20	3 40	U3 00s	2 70	2 50	2 20	2 20	2 15
15	F	U3 10F	2 90	3 10	F	F	F	U2 85F	2 40	2 30	2 30	2 15
16	F	3 00	F	F	3 20F	3 50	2 85	2 70	2 45	2 25	B	2 20
17	2 95	F	J3 05s	F	F	F	U3 00s	2 75	2 45	2 25	2 15	2 15
18	3 10	2 75	2 60	2 50	2 90	2 95	2 75	2 55	2 40	2 10	2 10	2 35
19	2 45F	U2 55F	F	F	U3 10F	3 40	3 20	3 05	2 70	2 30	2 15	2 15
20	J2 75F	F	2 95	3 05	3 10	3 20H	3 05	2 95	2 75	2 40	2 15	2 15
21	F	U3 10F	3 05F	F	3 10F	J3 20F	3 05	2 90	2 50	2 25	2 20	2 15
22	U2 80F	U3 00s	F	F	3 10	U3 30s	2 85	2 75	2 50	2 30	2 20	2 20
23	U2 50s	FS	U2 75s	2 85	3 10	FS	FS	2 70	2 40	2 25	2 15	2 10
24	F	F	F	F	F	U3 10F	C	C	C	C	C	C
25	U2 25s	2 65	U2 70s	U2 85s	2 95	3 10	2 95	2 80	2 60	2 35	2 05	2 05
26	F	U2 85F	2 80	2 85	U3 00s	3 30	2 85	2 80	2 60	2 30	2 05	2 05
27	2 60	2 75	2 90	2 90	3 00	3 30	2 90	2 75	2 35	2 15	2 00	2 10
28	FS	2 70	2 80	2 75	2 70	2 90	2 80	2 60	2 50	2 20	2 10	2 05
29	2 80	2 85	U2 80s	2 80	2 80	3 25	3 00	2 70	2 35	2 15	2 10	2 10
30	2 80	2 90	2 85	2 90	3 15	3 30	2 85	2 80	2 40	2 10	2 20	2 20
31	F	2 90	3 00	3 05	3 15	3 00	2 75	2 80	2 50	2 35	2 10	2 05
Mean	2 70	2 85	2 85	2 90	3 10	3 25	2 95	2 75	2 50	2 25	2 15	2 15
Median	2 75	2 85	2 85	2 90	3 10	3 25	2 90	2 75	2 50	2 25	2 15	2 15
Count	17	21	24	24	28	27	28	30	30	30	29	29

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic (M₃₀₀₀)F₂
 Unit :
 Month . August 1958

TABLE 22
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2 05	2 05	2 05	2 05	2 05	2 00	2 20	U2 15s	U2 45s	U2 25s	U2 35s	2 60	1
2 05	2 05	2 00	2 00	2 05	2 10	2 10	U2 05s	U2 05r	F	U2 35F	F	2
2 05	2 10	2 10	2 10	A	2 30	2 40H	U2 40s	U2 30R	U2 50r	U2 65s	U2 80s	3
2 05	2 10	2 10	2 00	2 10	2 15	2 15	2 05	U2 00F	U2 05i	F	F	4
2 05	2 00	2 05	2 00	2 05	2 20	J2 25R	2 20	U2 10F	F	F	F	5
2 10	2 00	2 10	2 00	2 10	2 20	U2 25s	2 10	U2 05F	F	U2 25r	U2 40F	6
2 05	2 05	2 05	2 05	2 10	2 25	2 35	2 30	2 25	2 35	2 50	2 75	7
2 05	2 05	2 05	2 05	2 10	2 20	2 25	2 15	F	F	F	F	8
C	2 05	2 00	2 05	2 10	2 10	2 15	U2 05r	U2 00F	F	F	F	9
2 10	2 20	2 30	2 30	2 30	2 35	2 30H	2 05H	F	F	F	F	10
2 15	2 10	2 15	2 15	2 15	2 15	U2 05R	U1 90s	U1 95F	F	U2 10F	F	11
2 25	2 25	2 30	2 30	2 35	2 30	U2 15s	U2 05s	F	F	F	2 50	12
2 25	2 15	2 05	2 10	2 20	2 25	2 25	2 15	U2 20s	2 20	2 30	2 40	13
2 10	2 10	2 10	2 10	2 15	2 20	2 20	2 05	F	F	F	F	14
2 20	2 10	2 10	2 10	2 15	2 30	U2 40s	2 15	F	F	F	F	15
1 95	2 00	2 05	2 00	2 10	2 15	2 20	2 00	F	F	F	U2 70F	16
2 05	2 10	2 10	2 15	2 20	2 25	2 25	2 05	U2 15s	2 30	2 45	3 15	17
2 20	2 15	2 20	2 30	2 25	2 25	U2 30R	U2 15s	2 15	2 25	2 35	U2 40F	18
2 15	2 10	2 10	2 10	2 10	2 10	2 15	2 05	U2 05F	F	U2 40F	F	19
2 15	2 05	2 00	2 00	2 05	2 15	J2 15s	2 00F	F	F	F	U2 65F	20
2 10	2 10	2 10	2 10	2 05	2 10	2 10	2 00	F	F	F	F	21
2 15	1 95	2 05	1 95	1 95	2 00	2 10	U2 10s	U2 05s	2 10	2 15	U2 35s	22
2 10	2 05	2 00	2 05	2 05	2 00	S	1 95	F	F	F	F	23
C	C	1 95	1 90	2 00	2 05	U2 15s	2 00	1 95	U1 95F	2 05	U2 20F	24
2 00	1 95	2 00	2 00	2 00	2 00	2 00	1 90	U1 75F	F	F	F	25
2 00	1 95	2 00	2 10	U2 10s	U2 15s	2 05	2 00	2 05	2 00	2 15	S	26
2 05	E1 90W	2 00	2 05	2 05	2 00	U2 00s	E1 90W	U1 90W	U2 10s	2 30	FS	27
2 00	2 00	1 95	2 00	2 05	2 10	2 05	E1 90W	F	F	S	U2 65s	28
2 05	2 00	2 00	2 00	2 05	2 10	2 20	2 10	2 20	2 45	2 65	2 80	29
2 05	2 00	1 95	2 00	2 05	2 10	2 10	2 00	U1 95r	F	F	F	30
2 05	2 05	2 05	2 10	2 20	2 20	2 20	2 00	2 05	2 25r	F	U2 60F	31
2 10	2 05	2 05	2 05	2 10	2 15	2 20	2 05	U2 10	2 20	2 35	U2 60	Mean
2 05	2 05	2 05	2 05	2 10	2 15	2 20	2 05	U2 05	2 25	2 35	U2 60	Median
29	30	31	31	30	31	30	31	21	13	15	15	Count

Sweep 1 Mc. to 25 Mc. in 27 Seconds.

Characteristic (M3000)F2

TABLE 22—Contd

Latitude . 10 2° N

Unit :

Ionospheric Data

Longitude 77 5° E

Month August 1958

75 0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	2 40F	2 50	2 85	3 05	2 95	U2 70S	U2 55S	2 35	2 15	2 20	2 10
2	2 80	U2 85S	U2 95S	3 05	3 25	2 90	U2 85S	2 60	2 25	2 20	2 10	2 05
3	U2 55S	U2 60S	2 50	2 60	U3 00S	3 15	3 00	2 75	2 45	U2 10R	2 10	2 00
4	2 95	U3 00S	3 00	3 05	3 20	3 10	U2 85S	2 50	2 30	2 30	U2 20R	2 10
5	F	U2 85F	2 95	U3 20F	F	3 35	3 05	2 75	U2 45R	2 20	2 15	2 10
6	U2 85F	2 80F	F	3 25	3 25	2 80	2 95	2 75	2 45	2 10	2 10	2 10
7	F	2 90F	3 00	U3 25F	3 30	2 80	2 95	2 80	2 50	2 10	2 10	2 05
8	2 80	2 75	U2 75S	2 90F	3 30	2 90	2 90	2 55	2 25	2 20	2 20	2 10
9	U2 65F	U2 75S	U2 90S	3 15	3 40	3 15F	2 85	2 65	2 25	2 20	2 10	C
10	F	F	3 05	3 20	3 20	2 90	2 85	2 60	2 35	2 20	2 10	C
11	F	F	F	F	3 25	U3 05S	2 70	2 55	2 30	2 20	2 10	2 20
12	2 65	2 55	2 70	3 00	3 30	3 00	2 70	2 50	2 35	2 25	2 20	2 20
13	F	U3 15F	3 10	3 30	3 35	2 75	2 95	2 65	2 25	2 25	2 20	2 15
14	2 80	2 90	2 90	3 05	3 35	3 15	2 90	2 60	2 40	2 15	2 20	2 15
15	U3 05S	F	3 00	F	F	F	F	U2 60F	2 20	2 35	2 25	2 15
16	2 85F	F	F	3 10	3 35	2 60H	2 85	2 60	2 35	2 20	R	2 05
17	F	3 05F	3 00	F	F	2 65V	2 95	2 60	2 25	2 20	2 15	2 10
18	3 00	2 65	2 55	2 75	2 90	2 85	2 65	2 55	J2 35R	2 10	2 20	2 30
19	U2 45F	U2 60F	F	F	U3 15F	3 20	3 15	2 90	2 55	2 10	2 15	2 10
20	F	U3 00S	2 95	3 05	3 30	3 10	3 10	2 90	2 60	2 15	2 10	2 15
21	F	U3 05F	F	U3 15F	U3 10F	3 05	3 05	2 70	2 30	2 20	2 25	J2 15R
22	2 95	FS	U3 10S	U3 10F	FS	3 00	2 80	2 65	2 45	2 20	2 20	2 10
23	FS	U2 70S	2 65	U2 95S	3 10	FS	U2 85S	2 60	2 20	2 10	2 20	2 05
24	F	F	F	F	F	U2 90F	C	C	C	C	C	C
25	U2 40S	U2 65S	U2 70S	2 90	3 05	3 00	2 90	2 75	2 50	2 20	2 05	2 05
26	F	FS	2 75	U2 95S	3 20	U2 75S	2 90	2 75	2 45	2 20	2 05	2 00
27	2 70	2 90	2 80	3 00	3 10	3 05	2 75	2 60	2 25	2 15	2 10	2 15
28	2 75	2 70	2 80	2 75	2 80	2 95	2 70	2 55	2 30	2 15	2 15	2 05
29	2 80V	2 90	U2 80S	2 70	3 00	3 15	2 90	2 60	2 25	2 20	2 05	2 05
30	2 85	2 90	2 85	2 90	3 30	2 75	2 90	2 55	2 20	2 25	2 15	2 05
31	2 80	2 90	2 95	3 05	3 15	2 80	2 90	2 70	2 40	2 25	2 05	U2 00W
Mean	2 75	2 80	2 85	3 00	3 20	2 95	2 85	2 65	2 35	2 20	2 15	2 10
Median	2 80	2 85	2 90	3 05	3 20	2 95	2 90	2 60	2 35	2 20	2 15	2 10
Count	19	24	25	26	26	29	29	30	30	30	29	28

Sweep 1 Mc to 25 Mc in 27 Seconds

Characteristic (M3000)F2
 Unit .
 Month August 1958

TABLE 22—Contd
 Ionospheric Data
 75° E Mean Time

Latitude . 10 2° N
 Longitude . 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2 05	2 05	2 05	2 00	2 00	2 10	2 30	U2 50S	2 30	U2 30S	2 55	2 70	1
2 00	2 00	2 00	2 05	2 10	2 15	U2 10S	F	F	U2 25F	F	C	2
2 05	U2 10R	2 10	2 15	2 30	2 40H	2 40	2 25	U2 35F	U2 60S	U2 80S	2 90	3
2 10	2 10	2 05	2 05	2 10	2 15	2 20	U2 10R	U2 05F	U2 10F	F	F	4
2 05	2 00	2 00	2 05	2 15	U2 20S	U2 25R	U2 10S	F	F	F	U2 60R	5
2 05	2 10	2 10	2 05	2 10	2 20	U2 20S	2 05	F	U2 15F	F	F	6
2 00	2 00	2 05	2 05	2 15	2 30	2 35	2 20	U2 25S	2 40	2 65	2 75	7
2 05	2 05	2 05	2 10	2 15	2 20	2 25	U2 05F	F	F	F	F	8
2 05	2 00	2 05	2 05	2 10	2 15	U2 05S	2 00F	U2 00F	U2 15F	F	F	9
2 15	2 30	2 30	2 30	2 30	2 35H	2 15H	F	F	F	F	F	10
2 10	2 10	2 15	2 15	2 15	2 10	1 95	1 90I	F	F	F	F	11
2 25	2 30	2 30	2 35	2 30	2 25	S	2 00	F	F	2 35	F	12
2 20	2 10	2 00	2 10	2 20	2 25	2 20	2 10	2 15	2 20	2 35	2 50F	13
2 10	2 10	2 10	2 15	2 15	2 15	2 15	2 15	2 10	F	F	F	14
2 10	2 10	2 05	2 10	2 20	U2 30S	2 35	U2 10S	U2 10F	F	F	F	15
2 05	2 05	2 05	2 05	2 10	2 20	U2 15S	F	F	F	F	2 65	16
2 15	2 05	2 10	2 20	2 20	2 25	2 20	U2 05S	2 20	2 45	2 65	3 15	17
2 20	2 15	2 25	U2 30R	2 30	U2 25R	2 15	2 10	2 20	2 30	2 40	2 50	18
2 10	2 10	2 10	2 10	2 15	2 15	2 10	1 95	F	U2 35F	F	F	19
2 15	2 05	2 00	2 00	2 10	2 10	2 05	U1 95F	F	F	F	F	20
2 10	2 15	2 10	2 05	2 05	2 10	2 15	U2 05I	F	F	F	F	21
2 20	2 15	2 00	1 95	2 00	2 10	U2 15S	U2 10S	2 15	U2 10S	U2 20S	U2 50S	22
2 05	2 05	2 00	2 00	2 05	1 95	U1 95RS	F	F	F	F	F	23
C	1 95	1 90	2 00	2 00	2 10	U2 05S	1 90	1 95	2 00	U2 10F	U2 40S	24
2 00	1 95	2 00	2 00	2 05	2 05	U2 00S	U1 80F	F	F	F	F	25
1 95	2 00	2 05	2 05	2 10	2 05	U2 05S	U2 00S	2 00	2 10	2 30	2 50	26
1 95	U2 00W	C	2 05	2 05	2 00	U1 90S	U1 90S	U1 95S	2 20	2 50	U2 70S	27
2 00	1 95	1 95	B	2 05	U2 10S	1 95	F	2 00	F	2 45	2 70	28
2 05	2 00	2 00	2 00	2 10	2 20	2 15	2 15	2 35	2 55	2 70	2 80	29
2 05	1 95	1 95	2 00	2 05	2 10	2 05	1 95	U2 10F	F	F	F	30
2 05	2 00	2 05	2 10	2 20	2 20	2 15	2 05	2 15	F	U2 55F	U2 85R	31
2 10	2 05	2 05	2 10	2 15	2 15	2 15	2 05	2 15	2 25	2 45	2 70	Mean
2 05	2 05	2 05	2 05	2 10	2 15	2 15	2 05	2 10	2 20	2 50	2 70	Median
30	31	30	30	31	31	30	26	18	16	14	15	Count

Sweep 1 Mc to 25 Mc. in 27 Seconds

Characteristic : foF₂

TABLE 23

Latitude : 10 2° N

Unit : Mc.

Ionospheric Data

Longitude 77 5° E

Month : September 1958

75 0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	12 6	10 7	U10 3F	U9 1F	U7 4F	5 0	7 6	11 0	12 6	12 8	11 7	11 2
2	F	F	F	F	6 5	5 7F	8 2	11 3	12 4	13 3	12 6	12 2
3	F	U13 0F	U10 4F	U9 1F	F	F	U8 4F	11 0	12 6	12 9	11 4	10 8
4	11 7	9 9	U10 1S	7 9	U7 1S	5 8	8 4	11 3	12 9	13 6	U13 9R	14 2
5	U13 8F	F	U11 0F	F	F	F	7 2F	10 7	11 4	12 0	13 0	13 2
6	10 4	8 8	8 4	8 8	7 9	6 3	8 1	11 7	13 6	15 0	15 9	15 9
7	F	F	9 4F	F	C	8 3F	8 4	11 6	12 8	13 0	11 8	11 6
8	F	F	F	F	9 6F	8 6	9 7	11 6	13 3	13 9	U13 4R	12 5
9	F	U11 8S	F	F	7 3	5 1	8 2	11 2	12 4	13 6	12 6	12 1
10	13 6	U12 8F	11 3	10 8	10 1	U7 0S	7 9	11 4	12 6	12 5	12 5	12 2
11	F	12 7	U11 8S	10 3	8 4	5 9	U7 9S	11 4	12 9	13 3	12 3	12 2
12	F	11 1	U9 6FS	9 0	8 6	6 4	U7 9S	11 3	13 3	13 2	12 7	12 3
13	F	F	F	5 3	3 8	3 0	7 7	11 4	13 1	13 5	12 8	11 8
14	F	F	7 3	F	F	F	U7 4S	11 0	12 7	12 8	C	C
15	U12 2R	U10 5F	F	U7 9F	F	F	7 8	11 0	13 0	13 5	C	C
16	F	F	8 6F	F	F	F	F	11 1	13 0	13 6	11 4	11 6
17	U11 5S	U11 5S	11 4	12 1	J11 9S	J9 8F	11 4	13 1	14 1	14 4	13 1	12 6
18	12 8	12 6	F	11 4	8 8	5 4	7 7	11 5	13 4	J14 0R	14 8	14 3
19	11 3F	10 2	F	9 3F	F	F	F	11 5	13 1	14 6	14 4	12 5
20	F	J12 0S	F	7 6	F	F	7 3	11 0	13 0	13 1	C	C
21	U11 4F	F	8 6	U8 6R	8 0	F	7 7	11 0	12 7	12 7	C	C
22	F	F	U8 6F	F	U7 5F	4 9	7 7	11 2	13 1	U13 2R	11 9	11 6
23	F	U10 4F	F	8 0	F	5 2	7 4	10 9	12 3	12 1	11 5	11 0
24	10 8	J9 8S	F	F	F	F	U7 6R	11 2F	12 7	12 3	11 8	11 8
25	U11 4S	F	F	7 6	F	4 8	7 5	11 2	13 2	13 5	11 6	11 5
26	10 2	8 8	7 8	7 6	6 3	4 5	7 8	11 0	12 8	12 9	13 0	13 2
27	U12 0S	U12 0FS	10 5S	U8 5S	8 7	7 9	8 6	12 1	13 4	13 1	C	C
28	F	F	F	10 6	8 8	F	9 2	11 5	12 6	C	C	C
29	F	F	F	F	7 6	F	8 0	11 6	13 8	14 4	12 1	11 1
30	F	F	F	8 6	8 0	6 3	8 4	11 6	14 0	14 8	14 5H	12 3
Mean	11 8	U11 1	9 7	8 9	8 0	6 1	8 1	11 3	13 0	13 4	12 8	12 3
Median	11 6	U11 1	9 8	8 7	8 0	5 8	7 9	11 3	13 0	13 3	12 6	12 2
Count	14	17	16	20	19	19	28	30	30	29	24	24

Sweep 1 Mc to 25 Mc in 27 Seconds.

Characteristic foF2
 Unit Mc
 Month September 1958

TABLE 23
 Ionospheric Data
 75 ° E Mean Time

Latitude 10.2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11 1	10 8	11 3	11 7	12 1	U11 9s	11 6	U 10 2F	F	F	F	F	1
12 2	12 6	12 9	13 1	13 3	12 6H	12 3H	F	F	F	F	F	2
10 9	11 5	11 7	11 6	12 3	12 6	12 5H	U9 4F	F	U11 0F	12 9	13 1	3
14 1	13 8	13 5	13 2	12 7	11 8	11 1	U7 6F	F	F	F	F	4
13 7	13 7	12 6	12 5	12 4	U11 8s	10 8	U9 8s	U9 2F	F	10 5	10 7	5
U14 9R	14 0	13 4	12 8	12 5	U11 9s	U11 2s	U9 8s	F	F	F	F	6
11 5	11 8	12 4	12 4	12 4	12 4	U11 6s	U9 2W	F	F	F	F	7
11 9	11 9	11 9	12 5	12 9	12 9	12 7	10 7	F	F	F	U12 2F	8
11 8	11 8	12 7	13 1	13 4	13 6	U13 5s	F	F	F	F	13 8	9
12 4	12 6	12 9	13 5	14 1	14 0	13 2	F	F	F	F	F	10
12 1	12 6	C	C	C	C	12 8	11 4	F	F	F	F	11
12 0	12 5	12 9	13 5	13 7	U13 6s	U13 0s	FS	F	FS	F	U13 2s	12
11 5	C	11 5	11 4	11 1	10 9	U10 3s	F	F	F	F	F	13
C	C	B	12 3	12 5	U12 8R	S	F	F	F	F	F	14
C	C	C	11 3	11 4	U11 7s	U11 6s	U10 7s	F	F	F	F	15
11 8	11 8	11 6	11 0	11 4	11 6	J12 0s	11 4	10 1	10 5	12 5	12 8	16
12 4	12 6	J12 9R	13 5	13 7	13 7H	13 0H	10 6H	F	F	F	U12 7F	17
13 5	13 7	14 5	14 4	14 5	14 5	RS	11 4	F	F	F	F	18
11 8	12 0	12 3	J12 0R	11 4	11 0	U10 5s	F	F	F	F	F	19
C	C	11 3	11 9	12 3	12 3H	S	U8 8F	F	F	U11 4s	F	20
C	C	C	13 5	13 8	13 8	13 0	U10 6F	F	F	F	F	21
11 8	12 2	13 1	13 5	13 5	U13 6s	13 0	F	F	F	F	F	22
11 0	11 7	12 6	12 9	13 0	12 6	U11 0R	F	F	F	F	F	23
12 1	12 5	12 8	13 4	13 7	J14 2R	U13 4s	U10 8F	F	F	F	F	24
12 1	12 9	13 5	13 6	U13 4s	U13 0R	U11 5sH	U11 6sH	12 7H	14 1	14 0	11 0	25
13 2	13 7	14 2	14 6	14 0	13 4	U11 8s	U9 2s	F	F	F	F	26
C	C	U13 5R	U13 7R	13 0	12 0	11 6	9 6	F	F	F	F	27
C	C	12 2	12 5	12 6	12 2	11 5	10 6H	10 5H	F	F	F	28
10 9	11 4	12 0	12 0	12 5	12 5	U12 0s	F	F	F	F	F	29
12 0	12 2	12 8	12 9	12 8	12 8	U12 2R	U11 6s	12 8	14 7	14 5	14 0	30
12 2	12 4	12 7	12 8	12 8	12 7	12 0	U10 2	U11 1		U12 6	12 6	Mean
12 0	12 5	12 8	12 9	12 8	12 6	12 0	U10 6	U10 5		U12 7	12 8	Median
24	23	26	29	29	29	27	20	5	4	6	9	Count

Sweep 1 Mc to 25 Mc in 27 Seconds

Characteristic foF2
Unit Mc
Month September 1958

TABLE 23—Contd.
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	11 6	10 2	F	7 4	6 0	5 4	9 2	11 8	13 0	12 2	11 5	11 1
2	F	U11 4F	F	U7 1F	6 2	5 7	10 1	12 0	13 0	12 8	12 1	12 1
3	F	U11 6F	F	F	F	F	9 8	12 0	13 2	12 6	10 8	10 7
4	10 4	10 0	9 2	U7 7S	6 4	6 3	10 2	12 3	13 4	13 9	14 2	14 1
5	F	F	F	F	F	F	9 6	11 0	12 1	12 5	13 3	13 4
6	U10 OS	8 5	8 7	8 4	7 5	6 0	10 2	12 7	14 3	15 8	15 8	U15 4R
7	F	F	9 4	F	U9 2F	6 9	10 3	12 2	12 9	12 3	11 7	11 6
8	F	F	F	F	9 1F	8 7	10 9	12 7	13 8	13 7	U13 OR	12 1
9	F	10 9	F	8 6F	5 6	6 3	10 0	11 8	13 0	13 5	12 1	11 8
10	F	12 2	10 9	10 8	8 6	5 6	10 1	12 0	12 7	12 6	12 2	12 2
11	U13 2S	12 3	F	U9 5S	7 0	5 7	U9 8S	12 4	U13 3R	12 9	11 9	12 0
12	F	10 5	FS	FS	7 5	5 3	9 9	12 5	13 5	12 8	12 5	U12 OS
13	F	F	6 7	U4 3F	3 6	5 1	10 1	12 4	13 8	13 5	12 3	11 6
14	F	U9 OR	F	F	U3 3F	U4 4F	U9 3S	11 9	13 0	C	C	C
15	10 8	F	U8 3F	F	F	U5 OR	U9 8S	12 1	13 4	C	C	C
16	F	8 8F	9 2V	F	F	F	U9 8FS	12 0	13 6	U12 8R	11 1	11 6
17	11 6	11 0	11 6	12 4	11 1	10 4	12 4	13 6	14 4	13 7	12 8	12 6
18	12 4	F	U11 6S	10 4	7 7	5 4	10 0	12 4	14 1	14 9	14 7	13 6
19	J11 OR	U9 3F	F	F	U9 5F	F	10 4	12 4	14 1	14 6	13 3	12 2
20	U12 6R	F	8 9	5 8	F	4 8II	U9 6S	12 2	13 2	C	C	C
21	U10 8S	9 0	F	U8 3F	F	F	U9 4S	12 0	C	C	C	C
22	U11 7S	F	F	F	6 4	5 6II	U9 8S	12 5	13 4	U12 6R	11 7	11 6
23	U10 8F	U9 2F	F	7 2	F	5 2II	U9 2S	U11 8S	12 5	11 8	11 2	10 8
24	J10 4R	F	F	F	F	U4 8F	U9 4F	12 0	13 0	11 8	U11 6S	11 9
25	U10 8S	U9 2F	7 9F	F	U6 2S	5 0II	9 8	12 6	13 5	U12 8R	11 2	11 8
26	9 3	8 0	7 7	7 3	5 2	5 4	9 7	12 0	13 1	12 9	13 III	13 2
27	U12 OS	11 1	U9 3S	F	8 4	7 0	10 7	13 0	13 6	12 8	C	C
28	13 0	F	F	9 6	F	7 6	10 6	12 4	12 4	C	C	C
29	F	U10 4F	F	8 6	6 5	5 5	10 2	12 9	14 6	13 4	11 5	10 9
30	F	F	F	8 4	7 2	6 2	10 2	13 2	14 8	U14 6R	12 8	12 0
Mean	U11 3	10 1	9 2	8 3	7 0	6 0	10 0	12 3	13 3	13 2	12 4	12 2
Median	U11 0	10 2	9 2	8 4	7 0	5 6	10 0	12 2	13 4	12 8	12 2	12 0
Count	17	19	13	17	21	25	30	30	29	25	24	24

Sweep 1 Mc to 25 Mc in 27 Seconds

Characteristic 10F₂

TABLE 23—(Contd)

Latitude . 10.2° N

Unit Mc

Ionospheric Data

Longitude . 77.5° E

Month September 1958

75 ° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11 0	11 2	11 4	11 9	12 0	12 0	11 0	U9 5I	F	F	U10 9I	F	1
12 4	12 7	12 9	13 3	13 0H	12 7H	U11 6SH	F	F	F	F	F	2
11 0	11 6	11 5	11 8	12 5	12 9	10 9	F	F	U12 3F	13 5	12 4	3
14 1	13 7	13 0	12 8	12 2	11 5	U9 6S	F	F	F	F	F	4
13 9	13 2	12 6	12 6	12 4	11 4	10 6	U9 4I	U9 2F	U10 0F	U10 5S	10 5	5
U14 2R	U13 3R	13 0	12 4	12 4	11 4	10 8	F	F	F	F	11 7	6
11 6	11 9	12 5	12 3	12 4	U12 3S	U10 6S	F	F	F	F	F	7
11 9	11 8	12 1	U12 9R	12 8	12 8	12 9	11 6	F	F	F	U12 9F	8
11 7	12 2	12 9	13 1	13 6	13 7	12 9	F	F	F	F	13 9	9
12 7	12 7	13 3	13 9	14 1	13 8	12 4	F	F	F	F	F	10
12 3	12 8	C	C	C	C	J12 3R	F	F	F	F	F	11
12 3	12 8	13 2	13 5	13 7	13 4	S	F	F	F	J13 0F ^s	U13 0S	12
C	11 3	11 5	11 3	11 0	10 7	U10 2W	F	F	F	F	F	13
C	C	11 8	12 5	12 7	12 7	U11 5S	F	F	F	F	F	14
C	C	11 4	U11 2R	U11 5S	U11 7S	U11 1S	F	F	F	F	F	15
11 9	11 8	11 1	10 9	11 4	12 3	11 5	10 6	U10 1S	U11 3F	13 1	12 1	16
12 6	12 9	13 3	13 6	13 6H	13 4H	J11 8SH	F	F	F	12 8	F	17
13 5	14 4	14 2	14 6	14 6	14 6	S	F	F	F	U11 4F	F	18
11 8	12 2	12 3	11 7	11 4	10 8	10 3	F	F	F	F	F	19
C	11 0	11 6	12 3	12 3	J12 0S	10 6	8 6	F	F	F	F	20
C	C	13 4	13 6	13 6	U13 2R	U11 6S	F	F	F	F	F	21
11 8	12 6	13 4	U13 6R	13 8	U13 4S	U11 8S	F	F	F	F	F	22
11 4	12 0	12 7	13 0	U12 8R	U12 0S	U9 0W	F	F	F	F	F	23
12 4	12 8	13 2	13 4	U14 0S	U14 0S	U11 8S	F	F	F	F	F	24
12 6	13 2	13 6	13 8	13 1	12 4H	U11 5SH	U11 6SH	U13 6S	14 1	12 7	10 6	25
13 3	13 8	14 6	14 3	13 6	U12 8R	U11 5W	F	F	U10 4F	F	F	26
C	C	13 8	13 1	U12 5R	11 8	10 7	F	F	F	F	F	27
C	C	12 4	12 6	U12 4R	U11 8S	11 0	F	F	F	F	F	28
11 0	11 8	12 0	12 2	12 7	12 6	10 9	F	F	F	F	F	29
12 1	12 6	12 8	12 8	12 9	12 6	U12 0S	U12 0S	13 6	14 6	14 2	13 7	30
12 3	12 5	12 7	12 8	12 8	12 5	11 2	10 3		12 1	12 4	12 3	Mean
12 3	12 6	12 8	12 8	12 7	12 6	11 3	10 0		11 8	12 8	12 4	Median
23	25	29	29	29	29	28	6	4	6	9	9	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic foF1
 Unit Mc
 Month September 1958

TABLE 24
 Ionospheric Data
 75° E Mean Time

Latitude · 10.2° N
 Longitude · 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	C	C
15								L	L	L	C	C
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	C	C
21								L	L	L	C	C
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic . foF1
 Unit Mc
 Month September 1958

TABLE 24
 Ionospheric Data
 75 ° E Mean Time

Latitude : 10.2° N
 Longitude : 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L	L							3
L	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic foF1
 Unit Mc
 Month September 1958

TABLE 24 (Contd.)
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude . 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4								L	L	L	B	L
5							L	L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L ¹	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11							L	L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	C	C	C
15								L	L	C	C	C
16								L	L	L	L	L
17								L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	C	C	C
21								L ^H	C	C	C	C
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L ^H	L ^H
27								L	L	L	C	C
28								L	L	C	C	C
29								L	L	L	L	L
30								L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc. to 25 Mc in 27 seconds

Characteristic foF1

TABLE 24 (Contd)

Latitude 10 2° N

Unit Mc

Ionospheric Data

Longitude 77 5° E

Month September 1958

75 0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L									1
L	L	L	L									2
L	L	L	L	L								3
L	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	C	C	C								11
L	L	L	L	L								12
C	L	L	L	L								13
C	C	B	L	L								14
C	C	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
C	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
C	L	L	L	L								27
C	C	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
	..	.										Mean
	..											Median
	.	.										Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic · foE
 Unit Mc
 Month · September 1958

TABLE 25
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude · 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3 ^{OH}	A	A	A	A
2								A	A	A	A	A
3								3 ^o	A	A	A	A
4								3 ^o	A	A	A	A
5								A	A	A	B	A
6								3 ^o	R	A	A	A
7									A	A	A	A
8							R	R	A	A	A	A
9								3 ^o	A	A	A	A
10								A	A	A	A	A
11								U2 ^{·9A}	A	A	A	A
12								U3 ^{·0A}	A	B	A	A
13								U3 ^{·2R}	A	A	A	A
14								R	A	A	C	C
15								3 ^o	A	A	C	C
16								A	U3 ^{·5A}	U4 ^{·2A}	A	A
17								U2 ^{·8A}	A	A	A	A
18								2 ^{·9H}	A	B	B	A
19								2 ^{·9}	3 ^{·2}	A	A	A
20								2 ^{·9}	U ^{·39A}	A	C	C
21								3 ^o	A	A	C	C
22								2 ^{·7}	A	A	A	A
23								A	A	A	A	A
24								A	A	A	A	A
25								2 ^{·9}	A	A	A	A
26								2 ^{·7}	A	A	A	A
27								A	A	C	C	C
28								A	A	A	A	A
29								2 ^{·9}	A	A	A	A
30								R	A	A	A	A
Mean .								2.9				
Median .								3 ^o				
Count .								18	3	1		

Sweep 1 Mc to 25 Mc in 27 seconds,

Characteristic · foE
 Unit Mc
 Month September 1958

TABLE 25
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A	A							1
A	A	A	U ₄ OA	B	A							2
A	A	4 ⁰ A	A	A	A							3
A	A	A	A	A	A							4
A	A	A	A	A	A							5
A	A	A	A	A	A							6
A	A	A	A	A	A							7
A	A	A	A	A	A							8
A	A	A	A	A	A							9
A	A	A	3 8	A	A							10
A	A	C	C	C	C							11
B	A	A	A	A	A							12
A	C	A	A	A	A							13
C	C	B	B	U ₃ 5 ^R	A							14
C	C	C	A	A								15
A	A	A	A	A								16
A	A	4 ⁰ B	A	A								17
A	A	A	A	A	A							18
A	A	A	A	A	A							19
C	C	A	A	A								20
A	A	A	3 6	3 2	A							21
A	B	A	A	A	A							22
A	A	A	A	A	A							23
A	A	A	A	A	3 3							24
A	A	A	A	A	A							25
A	A	A	A	A	A							26
C	C	A	A	A	A							27
C	C	B	A	A	A							28
A	A	A	A	A	A							29
A	A	A	A	A	A							30
												Mean
												Median
		2	3	3								Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foE
Unit . Mc.
Month September 1958

TABLE 25 (Contd)
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2 5	3 4 ^H	A	A	A	A
2							2 6	A	A	A	A	A
3							2 7 ^H	A	A	A	A	A
4							2 6 ^H	A	A	A	B	A
5							2 6 ^H	A	A	A	A	A
6							R	A	A	A	A	A
7								B	A	A	A	B
8							2 6	A	A	A	A	A
9							2 6	3 4	A	A	A	A
10							2 7	A	A	A	A	A
11							2 7 ^H	A	A	A	A	A
12							2 8 ^H	U ₃ 1A	A	A	A	A
13							2 7 ^H	A	A	A	A	A
14							2 7 ^H	A	A	C	C	C
15								A	A	C	C	C
16							2 5	3 4	U ₄ 0A	A	A	B
17							2 5	U ₃ 2A	A	A	A	A
18							2 5 ^H	2 9	A	B	A	A
19							2 5	3 0	3 5	A	A	A
20							2 5	3 4	U ₃ 6A	C	C	C
21							2 6	A	C	C	C	C
22							2 6	A	A	A	A	A
23							2 6 ^H	A	A	A	A	A
24							2 7 ^H	A	A	A	A	A
25							2 6	A	A	A	A	A
26							2 5	A	A	A	B	A
27							2 3	A	A	A	C	C
28							2 5	A	U ₄ 1A	C	C	C
29							2 5	U ₃ 2A	A	A	A	A
30							2 5	U ₂ 3R	A	A	A	A
Mean							2 6	3 1				
Median							2 6	3 2				
Count							27	10	4			

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foE
 Unit Mc
 Month September 1958

TABLE 25 (Contd.)
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	3 2								1
A	U4 2A	4 0	A	A								2
A	A	A	B	A								3
A	A	A	A	A								4
A	A	A	A	A								5
A	A	A	A	A								6
A	A	A	A	A								7
A	A	A	A	A								8
A	A	A	A	A								9
A	A	A	R	A								10
A	A	C	C	C								11
B	A	B	A	A								12
C	A	A	A	A								13
C	C	B	B	A								14
C	C	A	A	A								15
A	A	A	A	A								16
A	3 8	S	B	A								17
A	A	A	A	A								18
A	B	A	A	A								19
A	A	A	A	A								20
C	C	R	R	A								21
A	B	A	A	A								22
A	A	A	A	A								23
A	A	A	U3 5A	2 8								24
A	A	A	B	A								25
A	U4 0A	A	A	A								26
C	A	A	B	A								27
C	C	A	A	A								28
A	A	A	A	A								29
A	A	A	A	A								30
												Mean
												Median
	3	1	1	2								Count

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic . foEs
 Unit Mc
 Month : September 1958

TABLE 26
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2' N
 Longitude . 77 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							7 8	G	9 6	11 0	12 0	11 8
2								7 0	9 6	11 4	12 0	11 8
3	8 8							5 4	9 6	10 8	11 5	11 4
4	6 8	2 4					06 4s	5 8	10 2	10 0	12 0	11 0
5		2 3						7 4	10 8	10 8	B	11 8
6		3 4						4 1	G	10 0	11 6	11 8
7						6 6		8 4	9 4	10 4	11 8	12 0
8								7 0	8 6	10 5	11 4	C
9								G	8 6	10 6	11 2	12 0
10	4 0							8 6	9 8	11 0	11 8	12 0
11								7 6	9 0	11 0	12 0	11 6
12								7 8	10 0	10 4	11 6	12 1
13	S						4 8	G	10 3	10 8	11 6	11 8
14								G	10 7	11 3	C	C
15								G	10 4	11 1	C	C
16								3 8	8 6	10 6	11 4	11 2
17		3 5						6 7	9 8	10 8	11 4	11 6
18								G	8 8	9 4	10 8	11 4
19	4 7	2 8	6 4					G	7 6	9 4	10 8	11 4
20								3 6	9 8	10 4	C	C
21								G	11 0	11 6	C	C
22								G	10 2	11 0	11 0	12 0
23							5 7	8 4	11 0	11 0	11 8	11 4
24								7 0	10 0	11 0	11 8	12 0
25								G	10 4	11 0	11 4	11 4
26								7 0	9 2	10 6	12 0	11 0
27								7 6	9 4	11 0	C	C
28								8 4	10 6	C	C	C
29								G	9 2	10 2	11 4	11 4
30								4 6	8 4	11 0	12 2	12 0
Mean		2 9						6 6	10 0	10 7	11 6	11 6
Median		2 8					5 7	5 0	9 7	10 8	11 6	11 8
Count	4	5	1			1	5	30	30	29	23	23

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foEs
Unit Mc
Month : September 1958

TABLE 26
Ionospheric Data
75 ° E Mean Time

Latitude : 10 2° N
Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11 4	12 0	10 4	10 4	8 0								1
11 2	11 0	10 4	10 6	8 8	8 0							2
11 8	11 5	12 2	10 8	7 0	7 0							3
11 1	11 4	12 0	12 0	9 0	7 6							4
11 0	11 4	11 0	12 0	8 0	7 8							5
11 4	11 2	12 0	11 0	9 2	8 0							6
11 8	11 6	11 6	11 0	11 0	10 2	8 4						7
11 6	11 6	11 0	11 0	10 4	7 6							8
12 0	10 6	10 0	9 4	11 8	9 4						7 8	9
11 8	11 6	10 2	8 0	7 0	7 6				2 4		3 8	10
11 2	10 0	C	C	C	C						4 3	11
11 6	11 6	10 9	9 0	8 3	8 5						5 4	12
11 6	C	11 8	11 1	9 7	8 4							13
C	C	B	9 4	9 0	8 2							14
C	C	C	10 8	9 0	S						u4 os	15
11 1	11 4	11 6	11 3	8 4	6.8							16
10 8	10 8	8 4	8 0	6 4	S						3 0	17
11 4	11 2	10 4	10 4	7 7	S							18
11 0	11 5	11 3	10 7	8 8	6 8					3 0		19
C	C	10 5	10 6	8 4	u6 os							20
C	C	C	8 6	8 0	u7 4s						7 0	21
11 0	11 0	11 0	9 0	6 4	7 5							22
12 0	12 0	11 4	11 0	9 0	7 0							23
11 6	12 0	11 2	10 0	G	6 6							24
11 4	8 6	7 8	10 0	9 0	8 2							25
10 0	11 0	7 8	10 6	9 2	6 8							26
C	C	10 0	10 6	8 6	8 0							27
C	C	9 0	10 0	8 6								28
12 0	11 6	11 4	10 4	9 0	8 0							29
11 6	11 4	10 8	10 6	8 6	7 0							30
11 4	11 2	10 6	10 3	8 6	7 6						5 0	Mean
11 4	11 4	11 0	10 6	8.6	7 6						4 3	Median
24	23	26	29	29	24				1	1	7	Count

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic foEs
Unit · Mc
Month September 1958

TABLE 26 (Contd)
Ionospheric Data
75 ° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							G	G	10 0	12 0	12 0	12 4
2							G	8 6	11 0	12 2	12 0	11 0
3							G	7 6	10 8	12 2	12 4	11 8
4	U6 OS						G	8 6	11 0	12 0	11 0	11 4
5							G	10 2	10 0	11 6	10 4	11 0
6							G	8 4	8 4	11 6	11 6	11 8
7					7 0		G	8 8	9 7	11 8	11 8	11 2
8							G	8 6	9 8	11 2	11 4	11 0
9							G	7 8	10 4	11 6	12 2	11 6
10							G	8 8	10 6	11 6	11 6	12 0
11							G	9 2	10 6	12 0	11 5	11 8
12			3 0				G	9 4	10 4	11 3	12 2	12 3
13							G	9 2	10 6	11 2	12 0	12 1
14							G	10 1	11 1	C	C	C
15							G	8 6	10 9	C	C	C
16							G	G	10 6	10 8	11 2	10 6
17	4 0						G	8 8	10 2	11 2	11 8	11 6
18	3 2						G	6 6	9 6	10 0	11 2	11 7
19	4 6						G	G	8 8	10 6	11 1	11 0
20	U7 OS						G	8 4	10 7	C	C	C
21							G	9 0	C	C	C	C
22							G	9 4	9 6	11 0	11 4	11 0
23							G	10 0	11 0	11 4	11 6	12 0
24							G	9 2	11 0	11 7	12 0	12 0
25							G	9 2	10 6	11 4	11 4	11 2
26							G	9 2	10 4	11 0	11 2	11 4
27							G	8 7	10 5	11 4	C	C
28							7 8	9 4	10 6	C	C	C
29							G	8 0	9 0	11 0	11 6	11 0
30							G	G	9 6	12 0	12 0	11 6
Mean	5 0							8 8	10 3	11 4	11 6	11 5
Median	4 6						G	8 8	10 5	11 4	11 6	11 6
Count	5		1		1		28	30	29	25	24	24

Sweep 1 Mc. to 25 Mc in 27 seconds

Characteristic foEs
Unit Mc
Month September 1958

TABLE 26 (Contd)
Ionospheric Data
75 ° E Mean Time

Latitude . 10.2° N
Longitude . 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12 0	12 0	10 6	8 6	6 8								1
11 4	10 4	10 6	8 8	8 6							8 0	2
11 6	12 2	12 0	B	6 8	8 6							3
11 6	12 0	12 0	9 4	8 6	7 0							4
10 8	10 1	11 2	8 2	8 0					2 3			5
12 0	12 0	11 9	9 4	9 0								6
11 8	11 4	11 4	10 2	8 8								7
11 0	11 0	10 8	8 6	9 6								8
11 0	10 8	8 6	12 0	8 6	8 0						5 0	9
12 0	11 0	9 8	G	4 0								10
12 2	9 9	C	C	C	C				2 1		8 8	11
11 8	11 0	9 4	8 6	8 2	S			1 8			8 8	12
C	11 2	11 5	9 8	9 6	S							13
C	C	B	9 6	9 2	S					U2 7R		14
C	C	11 0	9 6	8 6								15
11 6	11 4	10 8	9 0	7 8							2 6	16
11 3	9 8	8 4	6 8	7 8	S							17
10 8	11 0	10 2	11 0	8 0								18
11 0	11 4	10 8	9 4	8 3					2 1		2 4	19
C	8 8	10 8	8 6	7 7					2 0	2 1		20
C	C	7 4	G	8 2								21
11 0	11 0	9 2	8 0	8 7							7 0	22
11 4	11 6	11 4	9 0	8 0								23
11 4	11 4	11 3	7 7	7 0								24
8 8	11 6	10 0	7 8	8 6								25
10 4	9 0	10 4	9 0	8 2								26
C	C	11 0	9 0	8 0								27
C	C	10 2	9 0	8 0								28
11 4	11 8	11 0	9 0	8 0								29
11 6	11 0	10 6	8 6	8 4							6 0	30
11 3	11 0	10 5	9 0	8 1							6 1	Mean
11 4	11 0	10 8	9 0	8 2							6 5	Median
23	25	28	28	29	3			1	4	2	8	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic fbEs
 Unit : Mc
 Month September 1958

TABLE 27
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude . 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							2 1		3 7	4 2	4 5	4 8
2								3 0	3 7	4 2	4 5	4 6
3	2 1							3 2	3 7	4 1	4 6	4 8
4	2 5	1 7					2 2	3 0	3 8	4 2	4 3	4 5
5		1 7						3 0	3 7	4 2		4 5
6		2 1						3 1		4 4	4 3	4 6
7						2 4		3 4	3 9	4 2	4 5	4 6
8								3 1	3 9	4 2	4 4	4 6
9									3 6	4 1	4 3	4 6
10	2 5							3 1	3 6	4 3	4 5	4 7
11								3 1	3 7	4 1	4 5	4 6
12								3 1	3 9	4 4	4 5	4 8
13							2 3		3 8	4 3	4 8	5 0
14									3 8	4 3	C	C
15									3 8	4 5	C	C
16								3 2	3 9	4 2	4 6	4 7
17								3 0	3 6	4 2	4 4	4 6
18									3 6		.	4 6
19	2 1	2 2	2 3						3 8	4 1	4 4	4 5
20								3 1	3 9	4 2	C	C
21								.	3 7	4 2	C	C
22									3 6	4 1	4 4	4 6
23								3 0	3 6	4 2	4 4	4 5
24								3 0	3 7	4 2	4 5	4 5
25									3 8	4 0	4 4	4 4
26								3 0	3 8	4 0	4 2	4 4
27								3 0	3 6	4 0	C	C
28								3 1	3 6	C	C	C
29									3 6	4 1	4 4	4 6
30								3 4	3 6	4 0	4 4	4 5
Mean								3 1	3 7	4 2	4 4	4 6
Median								3 1	3 7	4 2	4 4	4 6
Count	4	4	1			1	3	19	29	28	22	24

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic fbEs
Unit . Mc
Month September 1958

TABLE 27
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4 8	4 6	4 4	4 0	3 6								1
4 7	4 7	4 4	4 0	4 0	3 0							2
4 8	4 6	4 4	4 0	4 0	3 1							3
4 6	4 5	4 4	4 0	3 6	2 9							4
4 6	4 5	4 2	4 0	3 5	2 9							5
4 7	4 5	4 6	4 1	3 6	3 0							6
4 6	4 6	4 4	4 0	3 5	2 8							7
4 5	4 4	4 3	4 1	4 2	2 8							8
4 5	4 6	4 3	4 0	4 5	3 4						2 3	9
4 6	4 5	4 4	3 9	3 4					2 0			10
4 5	4 6	C	C	C	C						3 3	11
	4 5	4 5	4 2	3 8	3 0						2 0	12
4 8	C	4 4	4 1	3 8	3 0							13
C	C			3 8	2 8							14
C	C	C	4 3	3 8							1 7	15
4 8	4 7	4 4	4 0	3 6								16
4 6	4 4	..	4 2									17
4 6	4 6	..	4 0	3 6							3 0	18
4 8	4 6	4 3	3 8	3 6	2 7					2 0		19
C	C	4 3	4 0	3 6								20
C	C	C	4 0	3 8								21
4 4		4 2	3 9	3 5	2 7						2 7	22
4 6	4 4	4 2	3 8	3 4	2 6							23
4 6	4 6	4 2	3 9		.							24
4 5	4 6	4 0	3 9	3 4	2 6							25
4 5	4 4	4 2	3 7	3 3	2 6							26
C	C	4 4	3 8	3 4	.							27
C	C		3 8	3 4								28
4 5	4 4	4 0	3 9	3 2								29
4 4	4 4	4 3	3 8	3 4	2 6							30
4 6	4 5	4 3	4 0	3 6	2 8						2 5	Mean
4 6	4 6	4 4	4 0	3 6	2 8						2 5	Median
23	22	23	28	27	17				1	1	6	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic fbEs
Unit Mc
Month September 1958

TABLE 27 (Contd)
Ionospheric Data
75 ° E Mean Time

Latitude : 10 2° N
Longitude : 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1									4 0	4 2	4 5	4 7
2								3 5	3 9	4 4	4 8	4 8
3								3 5	4 2	4 4	4 7	4 8
4	2 2							3 5	4 1	4 2	4 6	4 6
5							2 6	3 4	4 0	4 4	4 6	4 7
6								3 4	4 0	4 4	4 6	4 6
7									4 0	4 3	4 5	
8					2 3			3 6	3 9	4 3	4 5	4 5
9								3 5	3 8	4 3	4 5	4 6
10								3 4	4 0	4 4	4 6	4 7
11								3 4	4 0	4 5	4 6	4 7
12			2 0					3 5	4 1	4 5	4 7	5 0
13								3 6	4 0	4 7	4 7	4 9
14								3 1	4 1	C	C	C
15								3 5	4 1	C	C	C
16									4 0	4 4	4 6	4 8
17								3 4	4 0	4 2	4 5	4 6
18	1 8							3 6	3 9		4 6	4 7
19	2 1								3 8	4 2	4 4	4 6
20	2 6							3 5	4 0	C	C	C
21								3 3	C	C	C	C
22								3 4	3 8	4 2	4 6	4 4
23								3 4	4 0	4 3	4 4	4 6
24								3 4	3 9	4 4	4 4	4 6
25								3 4	4 0	4 2	4 3	4 4
26								3 4	3 9	4 2	4 6	4 6
27								3 4	3 9	4 2	C	C
28							2 8	3 4	4 2	C	C	C
29								3 4	4 0	4 2	4 4	4 6
30								.	3 9	4 2	4 4	4 6
Mean								3 4	4 0	4 3	4 5	4 7
Median								3 4	4 0	4 3	4 6	4 6
Count	4		1		1		2	25	29	24	23	23

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic fbEs
Unit, Mc
Month - September 1958

TABLE 27 (Contd)
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N
Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.8	4.5	4.1	4.0	3.3								1
4.7	4.7	4.2	3.8	3.4							2.4	2
4.7	4.5	4.2		3.5	3.0							3
4.6	4.6	4.1	3.8	3.3								4
4.8	4.4	4.1	3.8	3.2	2.6				1.9			5
4.7	4.8	4.4	3.8	3.3								6
4.6	4.5	4.1	3.8	3.2								7
4.4	4.4	4.2	3.9	3.8								8
4.4	4.6	4.2	4.3	3.7	2.8						2.4	9
4.6	4.5	4.0		3.4								10
4.5	4.5	C	C	C	C				1.9		3.1	11
5.0	4.7		4.1	3.4	2.9		1.7				2.6	12
C	4.5	4.4	4.1	3.4	2.5							13
C	C			3.2	2.3					1.9		14
C	C	4.5	4.2	3.4								15
4.7	4.6	4.2	3.8	3.2							2.0	16
4.6	4.3	4.2										17
4.6	,	4.3	4.4									18
4.6	4.5	4.1	3.8	3.1					2.0		1.9	19
C	4.7	4.4	3.9	3.2					1.8			20
C	C	4.0	.	3.2								21
4.6		4.1	3.8	3.2							2.6	22
4.4	4.4	4.0	3.7	3.0								23
4.6	4.4	4.1	3.6	3.0								24
4.4	5.0	4.2	..	3.0								25
4.5	4.2	4.0	3.7	3.0								26
C	C	4.0	.	3.0								27
C	C	4.2	4.0	,								28
4.6	4.4	4.0	3.6	3.0								29
4.4	4.3	4.0	3.7	3.0							2.4	30
4.6	4.5	4.2	3.9	3.2	2.7				,		2.4	Mean
4.6	4.5	4.1	3.8	3.2	2.7			.		.	2.4	Median
23	23	27	22	26	6			1	4	1	8	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic fmin
Unit : Mc
Month September 1958

TABLE 28
Ionospheric Data
75 ° E Mean Time

Latitude : 10 2° N
Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	1 6	1 8	1 8	1 4	1 7	1 6	2 1	2 2	2 5	3 2	3 3	3 4
2	1 6	1 5	1 6	1 6	1 6	1 6	2 1	2 0	2 3	2 7	3 0	3 4
3	1 7	1 7	1 8	1 7	1 7	1 8	2 2	2 0	2 6	3 0	3 2	3 5
4	1 4	1 6	1 7	1 9	1 9	1 8	1 4	2 2	2 4	3 1	3 1	3 5
5	1 5	1 7	1 6	2 2	1 6	1 7	2 3	2 3	2 5	3 0	4 7	3 4
6	1 8	1 8	2 0	2 0	2 0	1 8	2 7	2 3	2 7	3 1	3 2	3 4
7	1 9	1 8	1 8	2 0	C	2 2	2 5	3 0	3 0	3 1	3 1	3 4
8	1 8	1 7	1 8	1 6	1 5	1 5	1 8	2 3	2 5	2 8	3 0	3 5
9	2 1	1 9	1 8	2 0	2 2	1 7	2 2	2 4	2 4	3 0	3 5	3 8
10	2 1	2 3	1 7	1 7	1 6	1 5	2 2	1 8	2 6	3 0	3 1	3 6
11	1 8	1 8	1 7	1 6	1 6	1 8	2 2	2 1	2 5	2 8	3 0	3 2
12	2 4	2 1	1 7	1 8	2 0	1 8	2 2	2 1	2 7	4 1	3 1	3 3
13	1 9	1 9	1 7	1 8	1 8	1 6	2 3	2 4	2 5	3 0	3 1	3 6
14	1 6	1 9	2 1	2 3	1 7	2 0	2 1	2 1	2 8	3 0	C	C
15	1 5	1 6	1 5	1 8	1 9	2 0	2 5	2 5	2 7	3 0	C	C
16	2 1	1 8	1 6	1 7	1 7	2 2	2 4	2 4	2 7	3 4	3 5	3 7
17	1 9	1 7	2 2	1 8	1 4	1 5	2 2	1 9	2 6	3 1	3 0	3 3
18	1 6	1 9	1 7	1 7	1 7	1 6	2 2	1 9	2 4	4 3	5 0	3 6
19	1 5	1 6	1 6	2 1	2 0	2 4	2 4	2 2	2 4	2 8	3 2	3 4
20	1 5	2 4	2 2	1 9	1 7	1 9	2 3	2 2	2 9	3 0	C	C
21	1 6	1 6	1 5	1 8	1 6	1 6	2 2	2 2	2 6	2 9	C	C
22	1 4	1 5	1 5	1 7	1 7	1 6	2 5	2 2	2 4	2 8	3 0	3 2
23	1 7	1 5	2 0	1 7	1 8	1 9	2 2	1 8	2 5	2 9	3 0	3 3
24	1 4	1 4	1 6	1 7	1 8	1 8	2 2	2 2	2 4	2 9	3 2	3 5
25	1 6	1 7	1 7	1 7	1 8	1 7	2 1	2 4	2 5	3 0	3 0	3 2
26	1 8	1 6	1 6	1 5	1 7	1 5	1 7	2 0	2 6	3 0	3 4	3 4
27	1 7	1 8	1 6	1 7	1 9	1 7	2 2	2 2	2 3	3 0	C	C
28	1 6	1 5	1 5	1 6	1 5	1 5	2 2	2 2	2 6	C	C	C
29	1 8	1 6	1 4	1 6	1 9	1 6	2 2	2 0	2 5	2 8	3 0	3 2
30	1 6	1 5	1 3	1 5	1 8	1 5	2 1	2 0	2 4	2 6	2 7	3 2
Mean	1 7	1 7	1 7	1 8	1 8	1 7	2 2	2 2	2 6	3 0	3 3	3 4
Median	1 6	1 7	1 7	1 7	1 7	1 7	2 2	2 2	2 5	3 0	3 1	3 4
Count	30	30	30	30	29	30	30	30	30	29	24	24

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic : fmin
 Unit . Mc'
 Month . September 1958

TABLE 28
 Ionospheric Data
 75.0° E Mean Time

Latitude : 10.2° N
 Longitude : 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3 7	3 6	3 2	2 9	2 8	3 0	1 9	1 4	1 8	1 8	1 8	1 8	1
3 6	3 7	3 4	3 0	4 0	2 4	1 9	1 4	1 8	1 7	2 0	2 0	2
3 6	3 3	3 2	2 7	2 6	2 2	2 0	1 4	1 8	1 9	1 8	2 1	3
3 6	3 4	3 2	3 0	2 6	2 2	1 8	1 8	1 9	1 6	2 0	1 7	4
3 7	3 4	3 3	3 0	2 8	2 4	2 0	1 7	1 8	1 9	1 6	1 5	5
3 6	3 3	3 3	3 1	2 8	2 6	1 7	1 5	1 8	1 9	1 6	1 9	6
3 6	3 6	3 2	2 8	2 6	2 2	1 8	1 3	2 0	1 9	1 9	2 2	7
3 5	3 2	3 0	3 1	2 4	2 2	2 0	1 4	1 9	1 7	2 0	2 0	8
3 4	3 2	2 5	2 7	2 6	2 0	2 2	1 8	2 0	2 2	2 2	1 8	9
3 6	3 5	3 0	2 7	2 5	2 4	2 0	1 5	1 9	1 8	1 9	2 1	10
3 5	3 4	C	C	C	C	2 3	1 6	1 8	1 5	1 8	1 7	11
4 6	3 6	3 3	3 6	3 0	2 5	1 8	1 3	1 6	1 8	1 6	2 0	12
3 4	C	3 2	3 3	3 0	2 4	1 7	1 8	1 8	1 9	1 9	1 7	13
C	C	B	4 9	2 8	2 2	1 6	1 5	1 9	1 8	1 7	2 0	14
C	C	C	3 8	2 8	3 0	1 8	1 6	1 9	1 8	1 6	1 6	15
3 8	3 5	3 1	2 7	2 6	3 0	1 8	1 9	1 7	1 9	1 8	1 8	16
3 4	3 7	U3 4S	3 0	3 6	2 8	1 9	1 4	2 0	2 1	2 2	1 6	17
3 8	4 6	4 7	2 5	3 2	2 7	2 0	2 0	1 6	2 0	2 0	2 3	18
3 8	3 7	3 3	2 9	2 6	2 0	1 7	1 7	1 9	1 7	1 4	1 7	19
C	C	3 4	3 0	2 6	2 7	1 8	1 8	1 8	2 0	1 7	2 0	20
C	C	C	3 2	2 9	2 6	1 9	1 8	2 2	1 8	1 9	1 9	21
3 8	4 8	3 4	2 6	2 3	2 2	1 7	1 6	1 8	1 7	1 6	2 0	22
3 4	3 2	3 2	2 7	2 6	2 0	1 6	2 0	1 8	1 8	1 6	1 7	23
3 6	3 2	3 0	2 8	2 8	2 6	1 6	1 8	1 8	1 8	1 6	1 5	24
3 0	2 6	2 6	3 0	2 8	2 4	1 7	1 8	2 2	1 9	2 0	1 8	25
3 6	3 4	2 8	2 6	2 5	2 6	1 5	1 8	2 0	2 0	1 8	1 7	26
C	C	2 8	2 6	2 8	2 6	1 5	1 8	1 9	1 6	2 2	1 9	27
C	C	4 2	3 0	2 6	2 6	1 5	1 2	1 7	1 8	2 0	2 1	28
3 2	3 2	3 0	2 8	2 8	2 6	1 6	1 5	1 8	1 8	2 0	1 8	29
3 4	3 0	3 0	2 8	2 8	2 4	1 8	1 4	1 4	1 9	1 6	1 5	30
3 6	3 5	3 2	3 0	2 8	2 5	1 8	1 6	1 8	1 8	1 8	1 8	Mean
3 6	3 4	3 2	2 9	2 8	2 4	1 8	1 6	1 8	1 8	1 8	1 8	Median
24	23	26	29	29	29	30	30	30	30	30	30	Count

Sweep 1 Mc. to 25 Mc in 27 seconds

Characteristic : fmin
 Unit : Mc
 Month : September 1958

TABLE 28—(Contd)
 Ionospheric Data
 75° E Mean Time

Latitude 10.2° N
 Longitude . 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	20	17	18	16	16	19	19	24	26	28	32	32
2	18	15	15	16	16	18	22	22	26	30	36	36
3	20	16	18	15	18	21	21	23	28	30	32	34
4	14	16	20	23	20	17	18	22	27	30	50	33
5	18	17	19	16	18	17	18	22	26	28	34	38
6	17	18	19	21	17	22	20	26	28	32	32	37
7	22	15	16	22	22	24	28	36	30	30	33	46
8	17	22	18	15	15	20	19	24	26	28	30	38
9	18	17	18	23	21	18	22	23	30	30	36	37
10	17	20	16	16	16	16	19	21	24	30	32	35
11	16	17	16	17	18	23	19	22	26	30	37	36
12	22	18	18	20	19	20	20	23	28	32	32	34
13	20	18	17	19	17	17	23	23	28	31	33	35
14	18	19	20	18	17	21	21	25	31	C	C	C
15	17	17	16	19	19	19	27	25	30	C	C	C
16	16	16	17	18	17	19	22	26	31	34	36	46
17	17	18	18	19	16	17	18	22	27	31	32	34
18	15	16	17	18	18	18	20	20	25	50	40	36
19	15	19	23	21	20	22	19	22	26	28	32	36
20	15	20	20	19	17	23	21	24	29	C	C	C
21	16	11	15	18	17	19	20	24	C	C	C	C
22	15	16	17	18	17	19	22	23	27	28	32	34
23	17	17	18	18	18	19	21	22	27	29	32	32
24	15	15	17	16	16	23	21	22	26	28	32	36
25	18	16	16	17	16	19	20	22	25	29	32	31
26	18	14	14	16	15	17	19	22	26	30	42	36
27	17	17	15	16	16	18	17	23	25	28	C	C
28	16	15	14	15	16	17	22	24	30	C	C	C
29	15	14	15	16	20	19	21	22	26	28	33	32
30	15	14	15	14	15	18	19	23	26	28	30	32
Mean	17	17	17	18	17	19	21	23	27	30	34	36
Median	17	17	17	18	17	19	20	23	27	30	32	36
Count	30	30	30	30	30	30	30	30	29	25	24	24

Sweep 1 Mc. to 25 Mc. in 27 seconds,

Characteristic : fmn
 Unit : Mc
 Month : September 1958

TABLE 28—(Contd)
 Ionospheric Data
 75 ° E Mean Time

Latitude : 10 2° N
 Longitude : 77 5° E

1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date		
3.7	3.2	3.0	3.1	2.6	2.5	1.7	1.8	1.6	1.9	1.8	1.8	1
3.7	3.6	3.2	3.0	2.7	2.6	1.3	1.8	1.8	2.0	2.0	1.8	2
3.4	3.3	3.0	4.0	2.5	1.8	1.5	2.0	1.9	1.7	1.6	1.6	3
3.6	3.4	3.0	2.8	2.4	2.4	1.6	1.9	1.6	1.7	1.8	1.5	4
3.6	3.4	3.0	3.0	2.4	2.2	1.6	1.7	2.0	1.7	1.7	1.6	5
3.4	3.2	3.2	3.1	2.6	2.5	1.7	1.7	1.7	1.7	1.8	1.8	6
3.6	3.4	3.1	2.7	2.5	2.4	1.5	1.8	2.0	2.0	2.0	1.8	7
3.4	3.0	2.9	2.8	2.3	2.3	1.7	1.8	1.8	1.8	2.0	2.1	8
3.3	3.8	2.7	2.7	2.4	2.4	1.8	2.0	2.2	2.1	2.2	2.1	9
3.6	3.1	2.8	2.7	2.4	2.6	1.7	2.0	1.8	1.9	2.0	2.1	10
3.6	3.6	C	C	C	C	1.5	1.6	1.9	1.6	1.7	1.6	11
4.8	3.8	5.0	3.3	2.7	2.6	1.4	1.7	1.5	1.8	1.7	1.7	12
C	3.5	3.6	3.2	2.7	2.3	1.4	2.0	1.7	1.9	1.6	1.6	13
C	C	7.0	4.3	2.5	2.2	1.4	1.8	1.6	1.9	1.6	1.8	14
C	C	3.7	3.4	2.8	2.5	1.6	2.2	1.8	1.7	1.9	1.6	15
3.6	3.6	3.0	2.7	2.6	2.6	1.5	1.5	2.0	2.0	1.7	1.7	16
3.6	3.4	S	4.0	3.4	2.6	1.5	1.9	2.0	2.2	2.0	1.6	17
3.9	4.8	3.6	2.7	3.2	2.5	U2.6s	2.0	1.7	1.8	1.7	1.7	18
3.7	3.5	3.0	2.8	2.2	2.3	1.5	2.0	1.9	1.4	1.4	1.4	19
C	3.7	3.2	2.8	2.3	2.4	1.5	1.9	1.9	1.7	1.5	2.0	20
3.8	C	3.0	3.0	2.4	2.4	1.6	2.0	1.7	1.8	1.7	1.7	21
3.3	4.6	3.0	2.7	2.4	2.2	1.7	1.8	1.8	1.7	1.7	1.4	22
3.3	3.2	3.2	2.8	2.4	2.2	1.8	1.8	2.0	1.6	1.5	1.7	23
3.4	3.0	2.9	2.6	2.4	2.2	1.5	1.9	2.0	1.6	1.7	1.6	24
3.2	2.8	2.8	3.8	2.4	2.4	1.4	1.8	1.8	1.9	2.0	1.8	25
3.5	3.0	2.6	2.8	2.3	2.2	1.4	1.8	1.9	1.8	1.6	1.7	26
C	C	2.8	3.8	2.4	2.2	1.4	1.8	1.8	1.8	1.6	1.5	27
C	C	3.4	3.2	3.0	2.2	1.6	1.4	1.8	2.2	1.5	1.5	28
3.2	3.2	2.9	2.8	2.5	2.0	1.2	1.7	1.7	1.8	1.7	1.7	29
3.0	3.0	2.8	2.8	2.4	2.4	1.5	1.6	2.0	1.7	1.7	1.9	30
3.6	3.4	3.3	3.1	2.5	2.3	1.6	1.8	1.8	1.8	1.7	1.7	Mean
3.6	3.4	3.0	2.8	2.4	2.4	1.5	1.8	1.8	1.8	1.7	1.7	Median
23	25	28	29	29	29	30	30	30	30	30	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic: h'F2
 Unit : Km
 Month September 1958

TABLE 29
 Ionospheric Data
 75.6° E Mean Time

Latitude : 10.2° N
 Longitude : 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	LH
6								L	L	LH	LH	LH
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc, in 27 seconds.

Characteristic h'F2
 Unit Km
 Month September 1958

TABLE 29
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	LH	L	L								2
L	L	L	L	L	L							3
LH	LH	L	L	L	L							4
LH	L	L	L	L	..							5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	C	C	C	C							11
L	L	L	L	L	L							12
L	G	L	L	L	L							13
C	C	B	L	L	L							14
C	C	C	L	L	L							15
L	L	L	L	L	..							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
C	C	LH	L	L	L							20
C	C	C	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
C	C	L	L	L	L							27
C	C	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h'F2
 Unit Km
 Month September 1958

TABLE 29—Contd
 Ionospheric Data
 75° E Mean Time

Latitude 10.2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4							L	L	L	L	L	L
5							L	L	L	L	L	LH
6								L	L	LH	LH	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11							L	L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	C	C	C
15								L	L	C	C	C
16								L	L	L	L	L
17								L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	C	C	C
21								L	C	C	C	C
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'F2
 Unit Km
 Month September 1958

TABLE 29—*Could*
 Ionospheric Data
 75° E Mean Time

Latitude : 10° 2' N
 Longitude : 77° 5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L									1
L	L	L	L									2
L	L	L	L	I								3
LH	L	L	L	L								4
L	L	L	L	L								5
												6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'F
Unit Km
Month September 1958

TABLE 30
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	240	235	235	225	220	215	260	240	230	215	200H	200
2	U270F 240	240	215	235	225	220	270	240	225	210	210	200
3	U270F 240	U255F 240	240	240	U220G 220	260	240	225	210H	220H	220H	210
4	295	275	235	245	260	305	275	250	240	220	220	200H
5	U330r 230	U300r 260	U260r 260	U300r 245	U360F 240	U370r 215	290	260	250	240	235	225
6	230	260	260	245	240	215	240	240	220	220	205H	200H
7	280	240	245	240	C	220	245	240	220	220	200H	200H
8	320	300	240	225	240	245	280	245	230	220	220H	215H
9	285	240	230	220	220	280	275	250	240	220	220	215H
10	295	260	230	225	220	215H	270	245	220H	220	220	220
11	280	260	240	230	220	230	270	240	240	215H	220	215
12	260	240	230	240	230	215	270	245	230	230	230	220
13	250	240	240	230	230	240	265	250	230H	200H	220	230
14	245	235	235	U260r 230	235	U285r 230	280	250	235	210H	C	C
15	260	250	240	235	230	230	270	245	230H	220	C	C
16	275	270H	240	230	235	230	265	240	230	210H	230	225
17	295	305	300	265	240	240	280	250	235	225	210H	220
18	270	260	230	220	210	205	260	240	220H	225	U235B	215
19	240	235	245	260	235	220	245	240	220H	225	210	210
20	270	245	235	230	230	225	265	240H	235H	210H	C	C
21	250	220	240	240	220	220	260	240	230	210	C	C
22	240	220	240	230	220	220	260	240	230	220	200	200
23	240	230	240	220	220	220	260	240	220	220	220	210
24	240	220	220	220	220	220	255	240	220	220	220	215
25	235	220	220	225	220	220	260	240	230	220	220	220
26	240	240	260	250	225	240	280	250	240	235	230	220
27	245	230	230	240	235	220	265	240	230	220	C	C
28	240	240	240	230	230	220	270	250	235	C	C	C
29	260	255	240	230	230	220	260	245	250	220	210	205
30	240	240	240	240	230	225	265	245	235	220	215	205
Mean	265	250	240	240	235	235	265	245	230	220	220	210
Median	260	240	240	230	230	220	265	240	230	220	220	215
Count	30	30	30	30	29	30	30	30	30	29	24	24

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'E
Unit Km
Month August 1958

TABLE 30—Contd
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
210	205	205	220	210	260	300	U4601	U4301	F	U3501	305F	1
200	200H	220	225	210	265	315	U1801	U4801	U3401	U3601	U320F	2
205H	215	225	220	240	260	320	520F	U1401	U3151	2751	260	3
205H	220	225	225	210	270	325	U1801	F	U360F	U3651	U3201	4
220	215	215	225	235	260	305	U1301	F	F	285	240	5
215	210	220H	220	235	260	300	420	F	300	340	280	6
210H	215H	220	220	235	260	300	470	520	440	J120F	350	7
210H	210H	215	235	255	260	310	480	460	420	310	295	8
215H	215H	220	220	260	265	310H	450	160	380	F	300	9
220H	215H	220	225	240	260	315H	480	370	F	300	295	10
210	220	C	C	C	C	320	435	F	U2601	F	U3201	11
235	230	235	240	250	270	325	U1801	F	U395F	U3051	275	12
230	C	230	210	250	270	310	515	U3251	U3251	U3351	280	13
C	C	B	B	250	275	335	U1701	F	F	F	F	14
C	C	C	210	250	280	330	U450F	F	F	F	300	15
220	215	215	230	245	270	315	400	U4151	350	260	260	16
220	220	230	240	245	270	330	480F	U420F	U4601	3201	300	17
210	220H	B	225	245	265	325	F	U4601	U4001	F	300	18
220	210	200H	215	245	260	320	U5051	U3751	U3001	F	285	19
C	C	215H	220H	215	260	330	U180F	F	440	320	300	20
C	C	C	220	240	260	320	U4101	F	U3601	U3101	280F	21
200	U20H	220	235	240	260	320	U4601	U400F	F	U3001	U2801	22
215	220	220	225	240	260	310	500	U4501	U4801	U3501	U3101	23
220	210	220	230	210	260	320	U1201	U3651	U3601	2851	280	24
210	220	220	240	260	280	340H	320H	260H	240	240	250	25
220	220	225	230	210	265	330	4001	3801	3301	300	260	26
C	C	230	230	215	265	330	F	480F	340	325	270	27
C	C	220	225	250	270	345	425	420	390	300	260	28
205	205	220	230	210	270	350	500	500	410	360	330	29
215	215	220	230	245	270	340	400	320	270	270	260	30
215	215	220	230	215	265	325	170	U415	U360	320	290	Mean
215	215	220	225	245	265	320	165	U430	U360	320	285	Median
21	23	25	28	29	29	30	28	21	24	24	29	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h'F
Unit Km
Month September 1958

TABLE 30—Contd
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	235	235	U230I	220	220	235	250	235	220	200II	200II	210
2	U255F	225	225	225	225	245	255	230	220	210	210	200
3	U260F	245	240	U230I	220I	230I	250	240	225	210II	210	220
4	300	260	220	260	300	325	260	245	230	205	B	210
5	U290I	U300F	U240I	U310I	U350I	370I	265	250	235	230	230	220
6	235	260	255	245	220	220	240	230	220	215	200II	200II
7	260	240	240	235	220	220	240	235	220	200II	205	B
8	330	280	225	225	240	270	260	240	220	215	220	205II
9	260	235	220	215	220	325	250	235	225	220	215	210II
10	270	235	235	220	210	240	250	235	220	200II	220	215II
11	265	245	230	230	225	240	255	240	230	230	225	220
12	255	230	235	235	220	230	255	240	220	220	225	235
13	245	230	230	240	235	255	260	240II	215II	230	220	230
14	240	230	215	235	245	U300I	250	240	215II	C	C	C
15	210	260	240	230	235	250	260	240	235	C	C	C
16	285	250	240	225	220	240F	250	235	220	210II	220	220
17	305	295	280	255	230	280	260	245	230	220	220	220
18	260	240	230	210	205	225	245	240	200II	B	220	215
19	235	240	245	245	225	225	245	230	225II	220	210	220
20	260	240	235	240	230	280	245	235	220	C	C	C
21	240	220	240	230	220	235	240	220II	C	C	C	C
22	225	220	220	220	215	230II	240	240	220	200	200	210
23	230	220	220	220	220	230II	250	240	220	210II	215	220
24	235	225	220	220	220	240	245	230	220	220	205II	200II
25	225	235	220	220	210	240II	250	240	225	210	210	210
26	240	245	250	235	230	290	260	250	235	230	220	220
27	235	220	235	240	220	225	245	240	220	220	C	C
28	235	240	240	240	225	230	260	240	235	C	C	C
29	260	240	240	230	235	240	250	235	225	210	205	205
30	240	240	235	235	225	240	255	235	220	215	210	215
Mean	255	245	235	235	230	255	250	240	225	215	215	215
Median	250	240	235	230	220	240	250	240	220	215	215	215
Count	30	30	30	30	30	30	30	30	29	24	23	20

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic h'F
Unit Km
Month September 1958

TABLE 30—*Cont'd*
Ionospheric Data
75° 0' E Meridian

Latitude 10° 2' N
Longitude 77° 5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
210	200	210	235	245	275	375	U1901	U3701	U480F	U300F	U280F	1
200H	225	230	230	250	285	380	F	U4001	U400F	U300F	U290F	2
205	215	215	U230B	250	280H	405	F	U110F	300F	260	270	3
205H	215	220	235	250	290	105	U505F	U400F	U3501	U3701	U340F	4
225	215	220	235	245	275	375	F	U315F	U3001	270	210	5
200H	230	225	225	245	275	360	440	F	260	310	265	6
215H	210H	220	220	240	280	380	510	500	310	310	300	7
205H	210	220	235	255	275	100	F	F	440	280	280	8
215H	220	220	240	250	280H	380H	F	F	F	280	290	9
205H	210H	220	230	250	280H	390	F	300	300	280	290	10
215	220	C	C	C	C	380	U140F	F	U295F	U2901	300	11
235	235	U250B	210	260	290	415	U3901	F	F	280	270	12
C	200	230	250	260	295	420	U110F	U3301	U1201	320	280	13
C	C	B	215	260	300	420	F	F	F	F	280	14
C	C	235	210	260	295	400	F	F	F	F	275	15
215	225	220	235	250	280	365	410	420	300	260	275	16
220	215	230	240	260	295	415	U480F	F	U1001	285	275	17
215	B	225	250	250	290	U425S	U1501	F	U340F	285	285	18
210	210	220	230	250	280	405	U1201	U375F	U210F	260	285	19
C	220H	230H	230	250	290	425	F	U1901	335	360	2801	20
C	C	220	220	240	280	420	U400F	U440F	U3101	U310F	260	21
210	U230B	225	235	250	280	400	U460F	F	U3201	U3001	285	22
220	220	230	240	250	290	450	U4501	U500F	U3101	U350F	280	23
215	215	220	230	250	280	410	U1101	U3601	3001	2901	260	24
210	A	U240A	210	260	300H	370H	300H	240	240	210	240	25
220	220	230	240	250	290	395	420F	3101	320	280	260	26
C	C	225	240	250	280	410	460F	410	325	320	260	27
C	C	220	240	260	300	420	420	380	360	280	245	28
210	220	220	235	255	295	440	500F	490	380	340	260	29
215	220	220	240	260	290	400	380	290	260	265	255	30
215	215	225	235	250	285	400	U110	390	340	295	275	Mean
215	220	220	235	250	285	400	U110	400	320	290	280	Median
23	23	28	29	29	29	30	22	20	26	28	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic h'E
Unit Km
Month September 1958

TABLE 31
Ionospheric Data
75° E Merid Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								115	A	A	A	A
2								110	A	A	A	A
3								100	A	110	A	A
4								120	A	A	A	B
5								110	110	110	B	A
6								115II	115	A	A	A
7									A	A	A	A
8							120	115	A	A	A	A
9								115II	105	A	A	A
10								105	A	A	A	A
11								115	A	A	A	A
12								115	110	B	A	A
13								120	A	A	A	B
14								110	110	A	C	C
15								120	A	A	C	C
16								A	120	110	A	A
17								110	A	A	A	A
18								110	110	B	B	A
19								120	110	110	A	A
20								120	115	A	C	C
21								120	110	110	C	C
22								120	A	A	A	A
23								A	A	A	A	A
24								A	A	A	A	A
25								120	A	A	A	A
26								115	110	A	B	A
27								110	110	115	C	C
28								120	110	C	C	C
29								120	115	120	A	A
30								120	110	110	110	110
Mean								115	110	110		
Median								115	110	110		
Count							1	26	15	8	1	1

Sweep 1 Mc. to 25 Mc in 27 seconds

Characteristic h'E
 Unit Km
 Month September 1958

TABLE 31—Contd.
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	110	115								1
A	A	120	115	B	120							2
A	A	A	A	A	A							3
A	A	A	A	110	115							4
A	A	A	A	A	A							5
A	A	A	A	115	A							6
A	A	A	A	A	A							7
A	A	105	A	105	A							8
A	A	A	A	A	A							9
A	A	105	110	A	A							10
A	A	C	C	C	C							11
B	B	A	A	A	A							12
B	C	A	A	A	A							13
C	C	B	B	120	A							14
C	C	C	B	A								15
B	A	110	A	A								16
A	A	120	A	A								17
A	B	B	A	A								18
B	A	A	A	110	115							19
C	C	A	A	110								20
C	C	C	120	120								21
A	B	110	105	A	120							22
A	A	A	A	120	120							23
A	A	110	115	120								24
A	A	A	A	A								25
115	A	110	115	115								26
C	C	A	A	120								27
C	C	B	120	120								28
110	A	115	115	A								29
A	A	A	A	A	A							30
		110	115	115	120							Mean
		110	115	115	120							Median
2		9	9	13	5							Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h'E
Unit Km
Month September 1958

TABLE 31—Cont'd
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							115	110	A	A	A	A
2							120	105	A	A	A	A
3							120	110	A	A	A	A
4							120	110	A	A	B	A
5							120	110	105	110	A	A
6							115	A	105	A	A	A
7								B	A	A	A	B
8							115H	110	A	A	A	A
9							120H	110	A	A	A	A
10							115H	105	A	A	A	A
11							115	A	A	A	B	A
12							115	110	105	A	A	A
13							120	A	A	A	A	B
14							120	115	A	C	C	C
15								115	A	C	C	C
16							120	120	115	A	A	B
17							115	110	A	A	A	A
18							120	110	A	B	B	A
19							120	110	110	A	A	A
20							120	120	110	C	C	C
21							120	110	C	C	C	C
22							120	A	A	A	A	A
23							120	A	A	A	A	A
24							120	A	A	A	A	A
25							120	110	A	A	A	A
26							120	110	110	A	B	A
27							120	110	A	110	C	C
28							120	115	115	C	C	C
29							120	115	115	110	110	A
30							120	110	110	A	A	A
Mean							120	110	110			
Median							120	110	110			
Count							28	23	10	3	1	

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'E
 Unit Km
 Month : September 1958

TABLE 31—*Concl'd*
 Ionospheric Data
 75 ° E Mean Time

Latitude 10.2° N
 Longitude . 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	105	110	120								1
A	120	110	A	120								2
A	A	A	B	A								3
A	A	A	110	120								4
A	A	A	A	A								5
A	A	A	A	105								6
A	A	A	A	A								7
A	A	105	A	A								8
A	A	A	A	A								9
A	A	110	115	A								10
A	A	C	C	C								11
B	B	B	A	A								12
C	B	B	A	A								13
C	C	B	B	120								14
C	C	B	A	A								15
A	A	A	110	A								16
A	120	S	B									17
B	B	A	A									18
A	A	A	A	A								19
C	A	A	115	115								20
C	C	120	120	120								21
A	B	110	A	120								22
A	A	A	115	120								23
A	A	110	120	120								24
115	A	A	B	A								25
A	120	A	115	115								26
C	C	A	B	A								27
C	C	A	120									28
A	110	110	A	A								29
110	A	A	115	A								30
		110	115	120								Mean
		110	115	120								Median
2	4	8	11	11								Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'Es
Unit Km
Month September 1958

TABLE 32
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							120	G	100	100	100	100
2								105	100	100	100	100
3	110							100	100	100	100	100
4	120	125					100	100	100	100	100	100
5		115						105	100	100	B	100
6		110						115	G	100	100	100
7						105		105	100	100	100	100
8							G	105	100	100	100	100
9								G	100	100	100	100
10	105							100	100	100	100	100
11								100	100	100	100	100
12								100	100	100	100	100
13	105						110	G	100	100	100	100
14								G	100	100	C	C
15								G	100	100	C	C
16								120	105	100	100	100
17								100	100	100	100	100
18			145					G	100	100	100	100
19	105	105	100					G	100	100	100	100
20								120	100	100	C	C
21								G	100	100	C	C
22								G	100	100	100	100
23							140	100	100	100	100	100
24								100	100	100	100	100
25								G	100	100	100	100
26								100	100	100	100	100
27								100	100	100	C	C
28								105	100	C	C	C
29								G	100	100	100	100
30								120	100	100	100	100
Mean	110	120						105	100	100	100	100
Median	105	115						100	100	100	100	100
Count	5	5	1			1	4	19	29	29	23	21

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'Es

TABLE 32—Contd

Latitude . 10 2° N

Unit Km

Ionospheric Data

Longitude 77.5° E

Month September 1958

75 0° E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100								1
100	100	100	100	105	105							2
100	100	100	100	100	100							3
100	100	100	100	100	110							4
100	100	100	100	100	100							5
100	100	100	100	105	110							6
100	100	100	100	100	100							7
100	100	100	100	100	105							8
100	100	100	100	100	100						115	9
100	100	100	100	100	100				120		115	10
100	100	C	C	C	C						115	11
100	100	100	100	100	100						110	12
100	C	100	100	100	100							13
C	C	B	100	100	100							14
C	C	C	100	100	100						130	15
100	100	100	100	100	105							16
100	100	100	100	100	100						130	17
100	100	100	100	100	100							18
100	100	100	100	100	105					120		19
C	C	100	100	105	110							20
C	C	C	100	100	105							21
100	100	100	100	100	105						100	22
100	100	100	100	100	105							23
100	100	100	100	C	105							24
100	100	100	100	100	105							25
100	100	100	100	100	105							26
C	C	100	100	100	110							27
C	C	100	100	105								28
100	100	100	100	105	110							29
100	100	100	100	105	105							30
100	100	100	100	100	105						115	Mean
100	100	100	100	100	105						115	Median
21	23	26	29	28	27				1	1	7	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'Es
Unit Km
Month September 1958

TABLE 32—Contd
Ionospheric Data
75.0° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							G	G	100	100	100	100
2							G	100	100	100	100	100
3							G	100	100	100	100	100
4	120						G	100	100	100	100	100
5							110	105	100	100	100	100
6							G	100	100	100	100	100
7					105			100	100	100	100	100
8							G	100	100	100	100	100
9							G	100	100	100	100	100
10							G	100	100	100	100	100
11							G	100	100	100	100	100
12			100				G	100	100	100	100	100
13							G	100	100	100	100	100
14							G	100	100	C	C	C
15								100	100	C	C	C
16							G	G	100	100	100	100
17	130						G	100	100	100	100	100
18	125						G	100	100	100	100	100
19	105						G	G	100	100	100	100
20	100						G	105	100	C	C	C
21							G	100	C	C	C	C
22							G	100	100	100	100	100
23							G	100	100	100	100	100
24							G	100	100	100	100	100
25							G	100	100	100	100	100
26							G	100	100	100	100	100
27							G	100	100	100	C	C
28							105	100	100	C	C	C
29							G	100	100	100	100	100
30							G	G	100	100	100	100
Mean	115							100	100	100	100	100
Median	120							100	100	100	100	100
Count	5		1		1		2	26	29	25	24	24

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'Es
 Unit Km
 Month September 1958

TABLE 32—*Concl'd*
 Ionospheric Data
 75 0° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100								1
100	100	100	105	105							110	2
100	100	100	B	100	100							3
100	100	100	100	105								4
100	100	100	100	100	100				125			5
												6
100	100	100	100	105								7
100	100	100	100	105								8
100	100	100	100	100								9
100	100	100	100	100	100						115	10
100	100	100	G	100								11
100	100	C	C	C	C				120		100	12
100	100	100	100	100	100			135			105	13
C	100	100	100	100	100							14
C	C	B	100	100	100					120		15
C	C	100	100	100								16
100	100	100	100	105							130	17
100	100	100	100	105	S							18
100	100	100	100	100								19
100	100	100	100	105					120		120	20
C	100	100	100	105					125	125		21
C	C	100	G	100								22
100	100	100	100	100							100	23
100	100	100	100	100								24
100	100	100	100	100								25
												26
100	100	100	100	105								27
C	C	100	100	105								28
C	C	100	100	110								29
100	100	100	100	110								30
100	100	100	100	105							110	30
100	100	100	100	105	100						110	Mean
100	100	100	100	100	100						110	Median
23	25	28	26	29	6			1	4	2	8	Count

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic (M3000) F2
 Unit
 Month September 1958

TABLE 33
 Ionospheric Data
 75° E Mean Time

Latitude 10° 2' N
 Longitude 77° 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2 95	2 85	F	U3 25Γ	U3 30Γ	3 25	3 00	2 90	2 60	2 20	2 10	2 00
2	F	F	F	F	3 10	3 25Γ	2 95	2 85	2 45	2 20	2 15	2 15
3	F	U3 10Γ	U3 05Γ	U3 10Γ	F	F	3 00Γ	2 80	2 55	2 15	2 05	2 05
4	2 85	2 75	2 90	2 95	2 80	2 75	2 60	2 65	2 40	2 20	2 15	2 15
5	U2 75Γ	F	U2 80Γ	F	F	F	2 65Γ	2 50	2 20	2 20	2 25	2 20
6	2 90	2 80	2 75	2 60	2 85	3 30	3 10	3 05	2 90	2 70	2 40	U2 25Γ
7	F	F	2 80Γ	F	C	3 20Γ	3 10	3 00	2 55	2 15	2 15	2 10
8	F	F	F	F	2 95Γ	2 85	2 70	2 65	2 45	2 25	2 10	2 10
9	F	U2 90s	F	F	3 25	2 85	2 65	2 80	2 55	2 20	2 20	2 10
10	2 65	U2 80Γ	2 95	2 90	3 25	3 00II	2 90	2 70	2 35	2 20	2 25	2 15
11	F	2 75	2 90	3 00	3 10	3 10	2 90	2 85	2 50	2 15	2 10	2 10
12	F	2 90	U2 95Γs	2 90	3 10	3 20	2 90	2 80	2 45	2 15	2 05	2 00
13	F	F	F	3 20	3 15	3 15	2 85	2 85	2 45	2 15	2 10	2 00
14	F	F	3 15	F	F	F	U2 85s	2 80	2 45	2 10	C	C
15	U2 85R	U2 80Γ	F	U3 00Γ	F	F	2 95	2 85	2 50	2 15	C	C
16	F	F	2 85Γ	F	F	F	F	2 85	2 55	2 20	2 10	2 15
17	U2 70s	U2 60s	2 55	2 70	J2 90s	J2 85Γ	2 80	2 65	2 45	2 10	2 15	2 05
18	2 75	2 85	F	3 15	3 30	3 45	2 95	2 95	2 60	J2 50R	2 20	2 20
19	2 85Γ	2 90	F	3 05Γ	F	F	F	3 05	2 75	2 50	2 10	2 10
20	F	J3 05s	F	3 15	F	F	2 95	2 95	2 60	2 20	C	C
21	U2 85Γ	F	2 95	U3 10Γ	3 20	F	3 05	2 95	2 60	2 15	C	C
22	F	F	U3 15Γ	F	U3 25Γ	3 55	2 95	3 00	2 65	U2 15R	2 20	2 20
23	F	U3 05Γ	F	3 15	F	3 30	2 95	2 35	2 40	2 25	2 20	2 15
24	2 70	J2 75s	F	F	F	F	U3 20Γs	2 90Γ	2 45	2 20	2 25	2 15
25	U3 00s	F	F	3 10	F	3 30	3 00	3 00	2 65	2 20	2 10	2 25
26	2 90	2 95	2 75	2 90	3 20	3 05	2 70	2 70	2 35	2 40	2 30	2 15
27	U2 65Γ	U2 80ss	2 90	U2 90s	3 00	3 15	3 05	2 75	2 45	2 35	C	C
28	F	F	F	3 10	3 10	F	3 00	2 70	2 35	C	C	C
29	F	F	F	F	3 20	F	3 00	2 90	2 65	2 20	2 20	2 25
30	F	F	F	2 90	3 05	3 15	3 00	3 00	2 75	2 40	2 05II	2 15
Mean	2 80	U2 85	2 90	3 00	3 10	3 15	2 90	2 80	2 50	2 25	2 15	2 15
Median	2 85	U2 85	2 90	3 00	3 10	3 15	2 95	2 85	2 50	2 20	2 15	2 15
Count	14	17	15	20	19	19	28	30	30	29	24	24

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic (M₃₀₀₀) F2
 Unit
 Month September 1958

TABLE 33 Contd
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2 05	2 05	2 00	2 05	2 10	U2 10S	2 10	U2 00F	F	F	F	F	1
2 10	2 10	2.15	2 15	2 15	2 10H	2 00H	F	F	F	F	F	2
2 00	2 05	2 00	2 00	2 05	2 20	2 15H	1 95F	F	U2 15F	2 65	2 85	3
2 15	2 15	2.05	2 05	2 00	2 05	1 90	UU2 00F	F	F	F	F	4
2 10	2 05	2 00	2 05	2 05	U2 15S	2 10	U2 05S	U2 05i	F	2 40	2 60	5
U2 05R	2 05	2.00	2 00	2 05	U2 15S	U2 05S	2 00	F	F	F	F	6
2 10	2 05	2 10	2 10	2 10	2 10	U2 00S	U1 90W	F	F	F	F	7
2 05	2 05	2.05	2 05	2 20	2 25	2 15	1 90	F	F	F	U2 50F	8
2 10	2 15	2 15	2 20	2 25	2 25	U2 15S	F	F	F	F	2 45	9
2 10	2 05	2.10	2 15	2 20	2 20	2 20	F	F	F	F	F	10
2 10	2 05	C	C	C	C	2 05	1 95	F	F	F	F	11
2 00	2 00	2 05	2 10	2 20	U2 30S	2 05	FS	F	F	F	U2 80S	12
1 95	C	1.95	1 90	1 95	2 00	1 95	F	F	F	F	F	13
C	C	B	2 10	2 10	2 10	S	F	F	F	F	F	14
C	C	C	2 00	2 00	U2 05S	U2 00S	U1 95S	F	F	F	F	15
2 10	2 00	1 95	1 95	2 00	2 15	J2 15S	2 10	2 00	2 15	2 55	2 85	16
2 10	2 05	J2 10R	2 10	2 15	2 20H	2 05H	1 90H	F	F	F	U2 65F	17
2 10	2 15	2 10	2 20	2 20	2 20	Rs	1 90	F	F	F	F	18
2 10	2 05	2.05	J2 05R	2 05	2 05	U2 00S	F	F	F	F	F	19
C	C	2.15	2 15	2 15	2 10	S	U1 85F	F	F	U2 30S	F	20
C	C	C	2 30	2 30	2 30	2 10	U2 00F	F	F	F	F	21
2 15	2 20	2.25	2 25	2 25	U2 30S	2 10	F	F	F	F	F	22
2 10	2 10	2.15	2 15	2 15	2 05	U2 05R	F	F	F	F	F	23
2 15	2 10	2.15	2 20	2 30	J2 35R	U2 20S	U2 00L	F	F	F	F	24
2 15	2 20	2.20	2 20	U2 20S	U2 10R	U2 00HS	U2 00HS	2 20H	2 60	2 80	2 80	25
2 15	2 10	2 15	2 20	2 10	2 05	U1 95SW	U2 05S	F	F	F	F	26
C	C	U2 20R	U2 05R	2 05	2 05	2 05	U1 90W	F	F	F	F	27
C	C	2 15	2 15	2 15	2 10	U1 90W	U1 85WH	1 85H	F	F	F	28
2 25	2 15	2 15	2 15	2 15	2 15	U2 00S	F	F	F	F	F	29
2 15	2 10	2 10	2 10	2 10	2 10	U2 00R	U2 00S	2 20	2 45	2 65	2 85	30
2 10	2 10	2 10	2 10	2 15	2 15	2 05	U1 95	2 05		U2 55	2 70	Mean
2 10	2 05	2 10	2 10	2 15	2 10	2 05	U2 00	2 05		U2 60	2 80	Median
24	23	26	29	29	29	27	20	5	4	6	9	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic (M3000) F2
 Unit
 Month September 1958

TABLE 33 (Contd)
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude . 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2 90	2 90	F	3 20	3 20	2 80	2 90	2 75	2 40	2 15	2 05	2 00
2	F	U3 20F	F	U3 05F	3 15	2 90	2 95	2 65	2 35	2 30	2 15	2 10
3	F	U3 05F	F	F	F	F	3 00	2 65	2 30	2 00	2 05	2 00
4	2 75	2 75	3 00	U2 85S	2 70	2 70	2 65	2 55	2 30	2 20	2 15	2 20
5	F	F	F	F	F	F	2 60	2 35	2 15	2 15	2 25	2 15
6	U2 90S	2 75	2 70	2 70	3 10	2 90	3 15	3 00	2 80	2 55	2 30	U2 05R
7	F	F	2 85	F	3 15F	3 35	3 05	2 80	2 35	2 10	2 05	2 10
8	F	F	F	F	2 90F	2 70	2 70	2 50	2 35	2 20	2 15	2 05
9	F	2 95	F	3 10F	3 25	2 70	2 70	2 70	2 35	2 10	2 15	2 10
10	F	2 95	2 90	3 00	3 25	3 00	2 85	2 55	2 25	2 15	2 20	2 10
11	U2 70S	2 90	F	3 10	3 20	2 80	2 85	2 65	2 30	2 05	2 15	2 10
12	F	2 90	F5	F5	3 30	2 90	2 90	2 60	2 30	2 10	2 05	2 05
13	F	F	3 30	U3 00F	3 10	2 70	2 90	2 75	2 30	2 05	2 05	2 00
14	F	U3 20F	F	F	U3 25F	U2 75F	U2 90S	2 65	2 25	C	C	C
15	2 75	F	U2 90F	F	F	U2 85F	U2 95S	2 65	2 35	C	C	C
16	F	2 80F	2 95V	F	F	F	U2 95I	2 65	2 40	U2 00R	2 20	2 10
17	2 65	2 60	2 60	2 85	3 00	2 80	2 70	2 55	2 25	2 10	2 10	2 05
18	2 80	F	U3 00S	3 30	3 25	2 60	3 00	2 80	2 55	2 30	2 20	2 20
19	J2 85R	U3 00F	F	F	U3 10F	F	3 15	2 90	2 65	2 25	2 10	2 15
20	U3 05R	F	3 05	3 30	F	2 55H	U3 00S	2 75	2 40	C	C	C
21	U2 75S	2 95	F	U3 20F	F	F	U3 00S	2 85	C	C	C	C
22	U3 05S	F	F	F	3 20	2 60H	U3 05S	2 85	2 40	U2 10R	2 20	2 20
23	U3 00F	U3 00F	F	3 25	F	2 60H	U3 00S	U2 70S	2 30	2 20	2 20	2 10
24	J2 75R	F	F	F	F	U3 25F	U3 00F	2 65	2 25	2 25	U2 25S	2 15
25	U2 95S	U3 15F	3 15F	F	U3 30S	2 70H	3 05	2 80	2 40	U2 05R	2 35	2 20
26	3 00	2 90	2 85	3 10	3 05	2 70	2 75	2 50	2 30	2 35	2 20H	2 15
27	U2 85S	2 85	U3 00S	F	3 05	3 15	2 90	2 60	2 35	2 30	C	C
28	3 05	F	F	3 00	F	3 10	2 85	2 45	2 30	C	C	C
29	F	U2 80F	F	3 00	3 20	3 00	3 00	2 80	2 40	2 10	2 20	2 25
30	F	F	F	3 00	3 10	3 00	3 05	2 85	2 60	U2 25R	2 15	2 15
Mean	2 85	2 95	2 95	3 10	3 15	2 85	2 90	2 70	2 35	2 15	2 15	2 10
Median	2 85	2 90	2 95	3 05	3 15	2 80	2 95	2 65	2 35	2 15	2 15	2 10
Count	17	19	13	17	21	25	30	30	29	25	24	24

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic (M3000) F2
 Unit
 Month : September 1958

TABLE 33 (Contd.)
 Ionospheric Data
 75 0° E Merid Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2 05	2 05	2 05	2 10	2 10	2 05	2 05	U1 90I	F	F	U2 45I	F	1
2 10	2 15	2 15	2 15	2 15II	2 05II	U1 95SII	F	F	F	F	F	2
2 00	2 00	2 00	2 00	2 15	2 20	2 10	F	F	U2 45I	2 75	2 85	3
2 15	2 10	2 05	2 05	2 00	2 00	U1 95S	F	F	F	F	F	4
2 15	2 05	2 00	2 05	2 05	2 15	2 00	U1 95I	U2 10I	U2 35I	U2 45S	2 80	5
U2 10R	2 00	2 00	2 05	2 10	2 10	2 00	F	F	F	F	2 80	6
2 05	2 10	2 10	2 10	2 10	U2 00S	U1 90S	F	F	F	F	F	7
2 05	2 05	2 05	U2 15R	2 20	2 25	2 05	F	F	F	F	U2 75I	8
2 10	2 10	2 20	2 20	2 25	2 25	2 05	F	F	F	F	2 65	9
2 10	2 10	2 10	2 20	2 20	2 15	2 00	F	F	F	F	F	10
2 10	2 05	C	C	C	C	2 00	F	F	F	F	F	11
2 00	2 00	2 10	2 20	2 25	2 15	S	F	F	F	U2 75S	U2 80S	12
C	1 95	1 95	2 00	2 00	2 00	U1 85W	F	F	F	F	F	13
C	C	2 05	2 10	2 10	2 05	U1 90S	F	F	F	F	F	14
C	C	2 00	2 00	U2 05S	U2 05S	U1 90S	F	F	F	F	F	15
2 05	2 00	2 00	2 00	2 10	2 15	2 15	2 00	U2 10S	U2 30S	2 70	2 80	16
2 05	2 10	2 10	2 15	2 20II	2 15II	J2 00SII	F	F	F	2 15	F	17
2 15	2 10	2 15	2 20	2 20	2 15	S	F	F	F	U2 60I	F	18
2 10	2 05	2 05	2 05	2 05	2 10	2 05	F	F	F	F	F	19
C	2 15	2 15	2 15	2 10	J2 10S	1 90	2 00	F	F	F	F	20
C	C	2 30	2 35	2 35	U2 25R	U2 00S	F	F	F	F	F	21
2 15	2 15	2 25	U2 30R	2 30	U2 25S	U2 05S	F	F	F	F	F	22
2 10	2 15	2 15	2 20	U2 15R	U2 05S	U1 95W	F	F	F	F	F	23
2 10	2 10	2 15	2 30	U2 35S	U2 30S	U2 10S	F	F	F	F	F	24
2 15	2 20	2 25	2 20	2 15	2 00II	U1 95SII	U2 05SII	U2 35S	2 70	2 90	2 80	25
2 10	2 15	2 20	2 15	2 10	U2 00R	W	F	F	U2 25I	F	F	26
C	C	2 10	2 05	U2 05R	2 05	1 90	F	F	F	F	F	27
C	C	2 15	2 10	U2 10R	U2 00S	U1 80W	F	F	F	F	F	28
2 15	2 15	2 15	2 15	2 15	2 10	U1 90W	F	F	F	F	F	29
2 10	2 15	2 10	2 15	2 10	2 05	U1 95S	U2 10S	2 35	2 60	2 75	2 90	30
2 10	2 10	2 10	2 15	2 15	2 10	1 90	2 00		U2 45	2 65	2 80	Mean
2 10	2 10	2 10	2 15	2 10	2 10	2 00	2 00		U2 40	2 70	2 80	Median
23	25	29	29	29	29	28	6	4	6	9	9	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic foF2
Unit . Mc
Month . October 1958

TABLE 34
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	13 3	13 1	12 8	13 1	U11 5S	11 1	U11 7S	13 3	U14 1R	13 8	13 0	12 2
2	U12 9F	F	10 9	9 3	F	F	8 0F	11 8	13 6	U14 2R	13 8	12 9
3	F	F	U8 1F	U7 7F	F	7 2	9 2	12 4	14 0	14 8	U13 5R	U12 4R
4	U11 7S	U11 3S	U11 9S	U11 9S	11 4	10 1	9 5	12 0	13 6	U14 3R	C	C
5	F	F	S	9 3	9 2	6 8	7 9	11 4	13 6	U14 2R	C	C
6	U11 9S	11 4F	10 4F	10 8	F	10 4F	11 8	12 8	14 6	14 6	12 8	11 9
7	J11 9S	U11 6S	C	C	C	C	C	C	C	C	C	C
8	F	F	11 5	11 0	U9 7F	8 4	U10 1S	12 2	13 2	13 4	12 8	12 8
9	F	F	F	9 3	8 7	6 3	8 1	11 4	12 4	12 5	12 4	12 4
10	U11 4F	19 8R	U9 2F	9 1	8 4F	6 1F	F	11 5	13 3	13 2	12 3	C
11	U11 0F	10 6	F	F	6 7	4 3	7 9	11 5	13 1	13 0	C	C
12	U10 6F	F	U8 3F	F	F	U5 3F	U7 9F	U11 6S	12 8	12 5	C	C
13	F	F	8 6R	F	F	F	U8 0F	U11 5F	13 8	14 3	12 2	11 4
14	F	U11 4F	U9 9F	F	7 8	5 6	7 8	11 2	13 2	13 6	11 7	10 8
15	F	U11 2F	U9 7F	U8 1F	F	5 5	7 9	11 1	12 7	12 1	11 5	11 3
16	FS	U11 4S	U10 4S	10 6	8 1	F	U7 8F	11 2	13 3	14 2	12 4	11 5
17	FS	F	FS	U9 1FS	U7 7FS	F	U8 11	U11 7S	13 9	14 4	12 9	12 8
18	F	10 7	FS	9 0	FS	F	U8 5F	12 2	13 9	14 6	13 8	11 8
19	FS	F	FS	U9 3S	8 5	6 0	8 3	U11 6S	13 6	14 2	13 8	12 6
20	FS	F	F	F	FH	7 7	U9 8S	13 2	14 9	15 7	16 0	U15 5R
21	F	FS	F	F	F	U6 0F	8 3	11 4	13 0	13 5	13 9	14 1
22	F	F	U10 8F	F	9 6	7 9	9 5	12 7	14 7	14 8	14 3	12 9
23	U13 4S	12 8	13 0	13 0	12 6	11 0	11 0H	11 1	12 5	U13 0R	14 0	14 5
24	12 0	11 4	10 9	11 0	10 6	U9 6S	11 0	14 0	15 4	16 0	16 0	16 4
25	11 1	9 6	U9 1S	8 9	8 8	J8 1R	U7 0S	10 8	12 3	13 4	13 3	13 1
26	F	F	U9 6S	F	U7 8F	6 2	7 9	J12 0S	13 4	13 8	13 0	12 2
27	F	U11 5F	10 1	F	8 3	8 4	10 2	12 8	14 7	15 3	15 5	16 0
28	U11 6F	F	13 0	12 0	13 0	U12 8R	13 2H	13 8H	13 1	13 8	13 8	13 4
29	13 7	13 8	12 7	12 3	12 4	12 6	12 1	13 7	15 5	15 8H	C	C
30	U9 0F	U9 7F	10 3	U9 7S	U9 1S	8 2	U9 1S	12 7	14 2	U14 4R	13 6	12 8
31	U10 6F	11 8	11 8	9 9	7 4	6 3	8 7	12 0	14 1	14 9	13 8	13 4
Mean	U11 7	11 4	10 6	10 2	9 4	7 9	9 2	12 1	13 7	14 1	13 4	13 0
Median	U11 7	11 4	10 4	9 7	8 8	7 7	8 5	12 0	13 6	14 2	13 5	12 8
Count	15	17	22	21	21	25	29	30	30	30	25	24

Sweep 1 Mc. to 25 Mc in 27 seconds

Characteristic : foF2
 Unit Mc
 Month October 1958

TABLE 34
 Ionospheric Data
 75 ° E Mean Time

Latitude : 10.2° N
 Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11 7	12 3	12 9	13 1	U13 OR	12 5	U11 6s	U9 8F	F	F	F	F	1
12 5	12 5	12 7	U12 5R	U12 4R	12 3	U11 8s	F	F	F	F	F	2
12 3	12 2	12 8	12 7	12 4	U11 8s	U11 4F	U9 6F	F	U9 3F	U9 7S	10 7	3
C	C	C	C	U11 9S	11 3	S	U8 6F	F	F	F	U10 9F	4
C	C	C	C	C	U11 4R	10 4	D8 5W	F	F	U10 1F	F	5
11 8	12 0	12 7	12 7	12 8	12 5	U11 6s	9 0	9 4	11 1	U11 5S	U11 5S	6
10 9	11 8	12 6	13 2	13 4	12 9	U11 6s	F	F	U11 3F	U10 4F	U11 2F	7
12 0	12 3	12 7	13 5	13 6	13 4	12 5	F	F	F	F	F	8
12 6	12 9	13 6	13 8	14 2	J13 6R	U12 2R	F	F	F	F	F	9
C	C	C	12 6	12 9	13 2	U11 6s	F	F	F	F	F	10
C	C	C	C	C	C	C	C	F	F	F	F	11
C	C	C	C	C	C	10 8	F	F	F	F	F	12
11 6	12 1	12 7	13 3	14 1	14 0H	12 8	F	F	U11 5F	F	F	13
10 5	10 7	11 1	11 8	12 6	12 9	12 6	11 0	F	F	F	U11 6F	14
11 1	10 9	11 3	11 8	12 3	12 3	U11 5S	F	F	F	F	F	15
C	12 4	12 6	12 5	U11 8s	U11 5s	U10 5s	D8 4W	F	F	FS	F	16
12 8	12 7	12 7	12 4	U11 7s	11 0	U10 0s	U8 2s	U8 7F	F	F	F	17
11 5	11 4	11 5	11 3	11 0	U10 6s	U9 7s	F	F	F	F	F	18
C	12 7	13 0	12 8	12 5	U12 0s	U10 3s	U8 3F	F	F	F	F	19
15 0	14 0	13 5	12 9	12 5	U12 0s	U10 1s	D7 7W	F	F	F	U9.1F	20
13 8	13 2	12 8	12 7	J12 2s	U11 8s	10 7	D8 3W	F	F	U9 2S	F	21
U13 OR	13 2	13 6	14 3	13 8	12 8H	U12 0SH	U11 2WH	RS	12 5H	12 8	13 6	22
14 8	15 2	U15 2s	U15 2s	14 6	U13 6R	12 0H	U12 0WH	RH	RH	U13 OR	U13 4s	23
15 8	14 5	13 9	U12 8s	13 2	12 6	J13 2R	U13 OR	U15 2s	14 5	13 8	12 6	24
13 4	13 8	13 7	13 6	U13 OR	U11 5s	J10 4s	F	F	F	F	F	25
12 4	12 4	12 7	13 2	13 7	U13 4R	S	F	F	F	F	F	26
15 8	14 9	14 6	14 6	14 3	14 0	12 8	10 3	F	U9.1F	F	U10 5F	27
13 3	13 2	13 3	13 3	13 2	13 0	U11 8s	11 6	12 8	U13 OR	13 3	13 6	28
C	C	13 6	13 6	12 7	11 7	10 9	9 0	U9 3F	F	F	9 2	29
12 5	12 0	11 8	11 8	11 5	10 6	9 7	8 4F	8 8	9 6	10 9	10 4F	30
13 2	13 0	12 8	12 8	12 4	11 6	10 6	8 6W	8 9	F	U10 2s	F	31
12 8	12 7	12 9	13 0	12 8	12 3	U11 3	U9 6	10 4	U11 3	U11 4	U11 4	Mean
12 5	12 5	12 8	12 8	12 8	12 3	U11 6	U9 6	9 3	U11 3	U10 9	U11 2	Median
23	25	26	27	28	29	28	15	7	9	11	13	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic foF2
Unit : Mc
Month October 1958

TABLE 34—(Contd.)
Ionospheric Data
75 ° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	13.3	13.0	13.0	12.7	11.0	11.1	12.6	13.9	UI4 OR	13.5	12.6	11.9
2	F	F	10.3	8.5	F	F	10.1	13.1	14.1	UI4 IR	13.2	12.7
3	F	F	F	F	F	7.3	10.9	13.3	14.7	14.5	12.7	UI2 2R
4	UI1 4S	UI1 7S	UI1 9S	UI1 8b	11.0	9.2	10.9	12.9	14.1	C	C	C
5	U9 5F	9.0	U9 4S	U9 2F	9.0	5.4	9.9	12.7	14.1	C	C	C
6	10.8F	F	10.6	10.8	F	11.0	12.4	13.8	14.8	UI4 2R	12.3	11.8
7	J12 1S	C	C	C	C	C	C	C	C	C	C	C
8	UI1 4S	11.4	11.2	10.6	9.0	8.4	11.2	12.8	13.4	13.3	12.8	12.5
9	F	11.0	F	9.0	7.7	5.9	10.0	12.2	12.6	12.4	12.5	12.9
10	F	F	9.2	F	7.6	F	J9 8F	12.5	13.4	12.5	C	C
11	F	9.5	8.6	7.6	5.9	5.2	10.1	12.5	13.6	12.7	C	C
12	UI0 OF	F	U8 1F	F	U6 1F	U5 6F	10.5	12.5	12.7	11.9	C	C
13	UI0 2F	F	8.0	F	F	F	UI0 2F	13.1	14.3	13.2	11.7	11.0
14	F	F	U8 8I	U7 8F	7.2	6.0H	10.1	12.5	13.7	12.8	10.9	10
15	UI1 3F	F	F	U7 7F	6.5	5.3H	9.6	12.0	12.9	11.7	11.3	11.0
16	FS	FS	FS	U9 9S	F	F	10.0	UI2 1F	14.0	13.8	11.7	5
17	F	U10 4F	F	8.8	FS	F	UI0 1S	13.2	14.3	13.7	12.6	J12 3
18	FS	F	U9 3S	FS	F	U6 6F	UI0 7S	13.1	14.6	14.4	12.7	11.6
19	F	F	F	FS	7.4	6.1	UI0 1S	12.7	14.1	14.0	UI3 OR	12.2
20	F	U8 8F	8.3	F	F	8.1	11.6	14.1	15.6	UI5 9R	16.0	15.7
21	F	F	F	F	F	U6 2F	UI0 2F	12.3	13.3	13.8	14.1	13.4
22	UI1 OF	UI0 6F	F	U9 8S	U9 2S	7.6	11.0	14.0	15.0	14.6	13.7	12
23	12.8	12.8	13.0	13.0	UI1 9S	11.2H	U9 4S	12.0	12.9	13.6	14.2	14.2C
24	11.5	11.0	11.0	11.0	UI0 2S	U9 5S	12.4	15.0	15.6	16.2	16.2	16.9R
25	10.4	U9 OS	U9 2S	9.2	8.4	RH	U9 2S	UI1 5S	12.9	13.4	13.0	13
26	F	F	10.2	F	F	5.8	UI0 2S	12.6	14.0	13.4	12.7	UI2 4
27	11.8	F	9.6	F	8.2	8.8	11.7	13.9	15.0	15.3	15.8	15.2
28	FS	FS	12.4	12.2	13.3	12.8	13.7H	RH	13.8	13.8	13.4	13.4
29	14.0	12.8	12.7	12.0	13.0	11.7	13.0	15.2	15.6H	C	C	C
30	U9 2F	9.8I	10.1	U9 1S	8.8	7.7	11.3	14.0	14.4	UI3 8R	13.2	12.7
31	11.3	12.1	10.8	8.8	6.6	6.5	10.4	13.2	14.8	14.7	13.4	13.3
Mean	11.3	10.9	10.3	10.0	8.9	7.9	10.8	13.1	14.1	13.7	13.2	12.9
Median	11.3	11.0	10.2	9.5	8.6	7.4	10.3	12.9	14.1	13.8	12.9	12.5
Count	17	15	22	20	20	24	30	29	30	27	24	23

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic foF2
Unit Mc
Month . October 1958

TABLE 34—(Contd)
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude . 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11 8	12 7	13 0	13 1	12 8	U11 8s	U10 9R	F	F	F	F	F	1
12 3	12 6	12 5	12 3	12 5	U12 4s	U11 0R	F	F	F	F	F	2
12 2	12 5	12 7	12 7	U12 3R	U11 7s	U10 4I	U9 4I	U9 4s	9 8	U10 2s	11 3	3
C	C	C	C	11 6	U11 9R	U9 4s	F	F	F	U9 8s	F	4
C	C	C	C	U11 6R	11 0	U9 5s	F	F	F	F	F	5
11 9	12 4	12 6	12 8	12 7	U12 3R	10 8	U9 0F	10 1	U11 6s	U11 6s	J11 8s	6
11 4	12 3	12 8	U12 9R	13 3	12 6	10 8	F	F	FS	F	F	7
11 9	12 6	U12 9R	13 7	13 6	13 0	F	F	F	F	F	F	8
12 8	13 2	13 7	14 0	13 8	12 8	F	F	F	F	F	F	9
C	C	C	12 8	U12 6R	U12 6R	10 6F	F	F	F	F	F	10
C	C	C	C	C	C	C	F	F	F	F	U10 6F	11
C	C	C	C	C	11 6	U9 0F	F	F	F	F	F	12
11 9	12 4	13 1	13 9	14 2II	13 6	U11 8F	F	F	F	U11 5F	F	13
10 6	10 8	11 5	12 1	12 8II	12 8	11 8	F	F	F	F	F	14
10 9	11 0	11 7	12 1	12 5	J12 2R	U9 8s	F	F	F	F	U11 5s	15
11 8	C	12 6	12 1	U11 7s	U11 2s	U9 4s	F	F	F	U11 7s	FS	16
12 8	12 7	12 6	12 1	11 5	10 7	U9 3s	8 4	F	F	F	FS	17
11 4	11 5	11 4	11 3	10 8	U10 3s	D8 7W	F	F	F	U8 7F	U9 1F	18
12 4	12 9	13 0	12 7	12 3	U11 4s	D9 3W	F	F	F	F	FS	19
14 4	13 9	13 3	12 6	12 5	U11 4s	D8 8W	F	F	F	F	F	20
13 6	13 1	12 8	12 6	J12 2S	U11 4s	D9 5W	F	F	F	F	F	21
13 1	13 4	13 8	14 0	U13 0RH	J12 0RH	U11 3WH	U11 8WH	RS	12 7	U13 0R	U13 6s	22
15 0	15 2	U15 0s	14 8	U14 2s	J12 2RH	U11 4WH	U12 0RH	RH	U12 6R	RS	12 8	23
15 6	14 0	13 2	12 8	13 0	12 8	J13 3R	13 8	U15 4s	13 6	13 4	U11 5s	24
13 8	13 7	13 9	13 6	U12 8R	11 4	U9 7s	F	F	F	F	F	25
12 4	12 6	12 8	13 4	13 5	U13 0R	U10 8F	F	F	F	F	F	26
15 4	14 7	14 6	14 3	14 2	U13 3R	11 4	9 8	F	F	U11 4F	F	27
13 2	13 2	13 3	13 0	13 2	12 6	11 5	11 8	13 0	13 6	13 5	13 6	28
C	C	13 6	13 0	12 1	11 1	9 6	F	F	F	U9 0F	F	29
12 1	11 7	11 8	11 6	11 1	10 5	9 2	8 8I	8 9F	10 4	10 7	10 7	30
13 0	12 9	12 8	12 7	12 3	11 3	9 4W	F	9 2	F	F	F	31
12 7	12 8	13 0	12 9	12 6	11 9	U10 3	10 5	11 0	12 0	U11 2	U11 6	Mean
12 4	12 7	12 8	12 8	12 6	11 9	U10 7	9 8	9 8	12 6	U11 4	U11 5	Median
25	24	26	27	29	30	24	9	6	7	12	10	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foF1
 Unit . Mc
 Month October 1958

TABLE 35
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	C	C
5								L	L	L	C	C
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	C	C
12								L	L	L	C	C
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic foF1
 Unit Mc
 Month October 1958

TABLE 35
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
C	C	C	C	C	L							4
C	C	C	C	C	L							5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
C	C	C	C	C	L							9
C	C	C	C	C	C							10
L	L	L	L	L	C							11
L	L	L	L	L	C							12
L	L	L	L	L	C							13
L	L	L	L	L	C							14
L	L	L	L	L	C							15
C	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foF1
 Unit Mc
 Month October 1958

TABLE 35—(Contd)
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7							C	L	L	L	L	L
8								L	L	L	L	L
9							L	L	L	L	L	L
10								L	L	L	L	L
11							L	L	L	L	L	L
12							L	L	L	L	L	L
13							L	L	L	L	L	L
14							L	L	L	L	L	L
15								L	L	L	L	L
16							L	L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L ^H	L
26								L	L	L	L	L
27							L	L	L	L	L	L
28								L	L	L	L	L
29							L	L	L	L	L	L
30								L	L	L	L	L
31							L	L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo F1
 Unit Mc
 Month October 1958

TABLE 35—(Contd)
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
C	C	C	C	L								4
C	C	C	C	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
C	C	C	L	L								10
C	C	C	C	C								11
C	C	C	C	C								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	LH	L	L	L								31
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic foE
Unit . Mc
Month . October 1958

TABLE 36
Ionospheric Data
75 ° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3 0	Λ	Λ	Λ	Λ
2								U3 0R	Λ	Λ	Λ	Λ
3								3 0	Λ?	Λ	Λ	B
4								3 0	Λ!	Λ	Λ	C
5								3 0	Λ!	Λ	Λ	C
6								2 9	3 5	3 8	Λ	Λ
7								C	C	C	C	C
8								Λ	Λ	Λ	Λ	Λ
9								Λ	Λ	Λ	Λ	Λ
10								Λ	Λ	Λ	Λ	C
11								Λ	Λ	Λ	C	C
12								Λ	Λ	Λ	C	C
13								2 8	Λ	Λ	Λ	B
14								3 0	Λ	Λ	Λ	B
15								Λ	Λ	Λ	Λ	Λ
16								U2 8R	Λ	Λ	Λ	B
17								U2 7R	Λ	Λ	Λ	B
18								R	Λ	Λ	Λ	Λ
19								R	Λ	Λ	Λ	Λ
20								U2 6R	R	Λ	Λ	Λ
21								Λ	Λ	Λ	B	Λ
22							2 2H	R	Λ	Λ	Λ	Λ
23								Λ	B	Λ	Λ	Λ
24								2 7	Λ	Λ	Λ	Λ
25								Λ	Λ	Λ	Λ	Λ
26								Λ	Λ	Λ	Λ	Λ
27								3 1	Λ	U1 2A	Λ	Λ
28								Λ	Λ	Λ	Λ	Λ
29								3 0	Λ	Λ	C	C
30								2 9	Λ	Λ	Λ	Λ
31								Λ	Λ	Λ	Λ	Λ
Mean								2 9				
Median								3 0				
Count							1	15	1	2		

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic . foE
 Unit . Mc
 Month October 1958

TABLE 36
 Ionospheric Data
 75 0' E Mean Time

Latitude 10 2° N
 Longitude . 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	B								1
A	A	A	A	A								2
A	A	A	A	A								3
C	C	C	C	B	B							4
C	C	C	C	C								5
A	A	A	A	A								6
B	B	A	3.6	3.1								7
A	A	A	A	A								8
A	A	4.0	A	3.0	A							9
C	C	C	A	A	A							10
C	C	C	C	C	C							11
B	A	A	3.6	A	C							12
A	A	A	A	A	C							13
A	A	A	A	B								14
A	A	A	A	A								15
C	A	A	A	A	A							16
A	A	A	A	A	A							17
A	A	A	A	A	A							18
C	B	A	A	A	A							19
A	A	A	A	A	A							20
B	B	B	A	A								21
A	A	A	A	A								22
B	R	A	A	B								23
A	A	A	A	A								24
A	A	A	A	A								25
A	A	A	A	A								26
A	A	A	A	A								27
C	C	A	A	A								28
A	A	A	A	A								29
A	A	A	A	A								30
A	A	A	B	A								31
												Mean
												Median
		1	2	2								Count

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic foE
Unit Mc
Month October 1958

TABLE 36—(Cont'd)
Ionospheric Data
75° E Mean Time

Latitude 10° 2' N
Longitude 77° 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								A	A	A	A	A
2							2 8	A	A	B	A	A
3							2 6	A	A	A	A	B
4							2 8	3 5	A	C	C	C
5							2 5	R	A	C	C	C
6								3 3	3 6	A	A	A
7							C	C	C	C	A	C
8							A	A	A	A	A	A
9							2 6	A	A	A	A	A
10							2 5	B	A	A	C	A
11							2 6	A	A	A	C	C
12							2 5	A	A	A	A	C
13							2 5	A	A	A	A	B
14							2 6	A	A	A	A	B
15							2 5	A	A	A	A	A
16							U2 4R	3 3	A	A	A	C
17							2 6	U3 OR	A	A	A	A
18								R	A	A	A	A
19								A	A	A	A	B
20								3 1	A	A	A	A
21							U2 6R	A	A	B	A	A
22							2 7	U3 4A	A	A	A	A
23							A	A	A	A	A	U4 3R
24							R	U3 2R	A	A	A	A
25							A	A	A	A	A	A
26							2 5II	A	A	A	A	A
27							A	A	A	A	A	A
28							A	A	A	A	A	A
29								U3 2A	A	C	C	C
30								U3 2A	A	A	A	A
31								A	A	A	A	A
Mean							2 6	3 2				
Median							2 6	3 2				
Count							16	9	1			1

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foE
Unit Mc
Month October 1958

TABLE 36—(Contd.)
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude . 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A								1
A	A	A	A	A								2
A	A	A	A	A								3
C	C	C	C	A								4
C	C	C	C	B								5
A	A	A	3 4									6
B	A	B	3 4	2 8								7
A	A	A	3 5	A								8
A	A	A	3 1	A								9
C	4 0 C	C	A	A								10
C	C	C	C	C								11
C	C	C	C	C								12
A	A	A	3 4									13
A	A	A	A									14
A	A	B	B									15
A	C	A	A	A								16
B	A	A	B	A								17
A	A	A	A	A								18
B	A	A	A	A								19
A	A	A	A	A								20
B	B	A	A	A								21
B	B	A	A	A								22
U4 2R	U4 OR	R	B	B								23
A	A	A	U3 4R	A								24
A	A	A	A	A								25
A	A	A	A	A								26
A	A	A	B	A								27
A	U3 OA	A	B	A								28
C	A	A	A	A								29
A	C	B	A	A								30
A	A	A	A	A								31
A	A	A	B	A								31
			3 4	.								Mean
.	.		3 4									Median
1	3		6	1								Count

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic foEs
Unit . Mc
Month October 1958

TABLE 37
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								7 0	9 0	10 0	11 6	11 2
2								G	9 0	11 0	11 4	12 0
3								G	9 0	9 4	11 4	11 0
4								7 8	10 2	10 6	C	C
5								G	10 0	10 0	C	C
6								G	9 2	10 4	11 5	11 8
7			C	C	C	C	C	C	C	C	C	C
8							2 6	6 8	9 8	10 0	10 8	10 8
9								8 2	10 4	10 6	11 2	11 3
10	6 6							8 2	9 4	10 0	11 4	C
11	2 2							8 0	10 6	11 4	C	C
12							8 0	8 8	11 0	11 0	C	C
13								G	8 6	10 2	11 2	11 6
14								G	10 4	11 0	11 6	11 0
15								7 6	10 6	11 1	12 0	12 0
16								G	10 1	11 8	12 0	11 8
17								G	9 6	11 1	11 2	11 8
18								G	8 8	11 0	12 1	12 1
19								G	10 8	11 4	12 1	12 2
20								G	7 6	9 0	11 2	11 4
21								9 6	10 9	10 0	10 7	12 3
22							G	G	8 0	11 2	11 4	11 8
23	3 8							9 0	10 6	10 0	11 6	9 0
24								G	10 4	8 0	8 6	11 0
25					4 6			8 6	9 4	10 4	11 1	11 1
26								7 0	9 6	11 4	12 0	12 0
27								8 0	10 4	10 2	12 0	11 6
28		2 2	3 8		3 4	2 8		8 0	10 2	10 4	11 4	11 4
29			2 4					G	9 8	11 6	C	C
30								G	9 2	10 6	11 2	11 8
31								8 0	9 8	10 2	11 4	11 4
Mean								8 0	9 7	10 5	11 4	11 5
Median									9 8	10 5	11 4	11 6
Count	3	1	2		2	1	3	30	30	30	25	24

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foEs
Unit . Mc
Month October 1958

TABLE 37
Ionospheric Data
75.0° E Mean Time

Latitude . 10 2° N
Longitude 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11 0	9 8	10 4	10 5	8 2	U7 OS					2 2		1
11 4	11 4	11 0	11 0	7 8	U7 OS							2
11 0	11 0	11 0	10 6	8 6	8 0				2 6			3
C	C	C	C	C	C						4 4	4
C	C	C	C	C	C							5
11 6	11 3	10 6	10 2	7 8	U6 5s							6
10 0	9 5	10 2	8 8	7 4	U5 8s							7
10 7	10 8	11 2	9 2	6 8	S							8
11 4	9 8	8 0	8 8	7 8	5 8							9
C	C	C	9 3	7 8	6 0							10
C	C	C	C	C	C	C	C					11
C	C	C	C	C	C							12
11 4	11 0	11 0	7 6	6 4	8 0				2 1			13
11 7	11 8	12 0	12 0	8 4								14
11 6	12 1	11 8	10 8	8 5								15
C	11 7	11 4	11 4	8 7	7 2					2 3		16
10 7	11 8	11 3	11 0	8 2	6 5						3 7	17
12 1	11 9	11 4	10 8	8 8	U7 OS					8 6		18
C	11 8	11 6	10 8	9 0	7 6							19
11 0	11 4	11 2	12 0	8 9	U7 4s							20
11 2	11 2	10 7	10 8	9 3								21
10 6	11 2	9 0	11 0	8 3	S							22
B	G	8 6	10 6	9 6	S					S		23
10 2	11 2	11 0	11 0	9 0						U8 OS	U6 OS	24
9 6	10 0	11 0	11 0	8 4						4 4	8 0	25
12 0	11 8	11 8	10 6	8 2								26
11 0	10 4	10 6	10 0	8 2						2 8		27
11 4	10 6	10 4	10 4	8 0								28
C	C	11 0	9 4	8 2								29
11 4	11 0	11 0	10 6	9 0								30
12 0	11 2	10 2	9 6	8 2							5 6	31
11 1	11 1	10 7	10 4	8 3	6 9					4 7	5 5	Mean
11 3	11 2	11 0	10 6	8 2	7 0					3 6	5 6	Median
22	25	26	27	28	14				2	6	5	Count

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic : foEs
 Unit Mc
 Month October 1958

TABLE 37—(Continued)
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							4 2	9 6	10 2	11 4	11 2	11 4
2							G	8 2	10 2	11 4	11 2	12 0
3							G	7 0	8 6	11 0	11 4	11 1
4							G	8 6	10 6	C	C	C
5							G	7 0	10 2	C	C	C
6								8 2	9 8	11 6	11 2	11 8
7							C	C	C	C	C	C
8		C	C	C	C		6 6	8 0	9 6	11 0	11 2	11 4
9						2 6	G	8 8	10 6	11 2	11 5	11 6
10							3 1	8 8	9 8	11 1	C	C
11	2 2						G	9 6	10 6	12 0	C	C
12							6 0	9 8	10 6	11 5	C	C
13							G	11 0	9 8	11 2	12 0	B
14							G	7 8	10 2	12 0	12 0	11 8
15							G	10 0	10 6	11 2	11 8	11 4
16							G					C
17							G	7 6	11 0	11 6	11 8	12 0
18								8 4	11 0	11 2	11 1	12 0
19								7 0	9 6	11 6	12 0	12 2
20								9 6	10 9	11 7	11 9	12 0
								6 8	8 4	11 2	11 9	11 1
21												
22							U9 05	10 5	9 9	11 4	12 1	12 3
23							G	7 6	11 0	11 2	11 5	11 0
24							U7 05	9 4	11 0	11 2	11 0	G
25						3 0	G	8 3	9 0	11 0	10 8	11 0
							U7 05	8 8	9 0	11 0	10 8	11 0
26							G	10 0	10 6	12 0	12 0	12 0
27							6 8	8 4	10 2	11 2	11 2	11 4
28		4 0		3 2	3 1	2 2	7 0	9 6	11 0	11 4	11 6	11 2
29								G	9 8	C	C	C
30								8 0	10 4	11 0	11 6	11 0
31								8 8	10 0	11 4	12 0	11 0
Mean							6 3	8 7	10 1	11 3	11 5	11 5
Median							G	8 5	10 2	11 2	11 6	11 4
Count	1	1		1	2	2	23	30	30	27	24	22

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic foEs
Unit Mc
Month October 1958

TABLE 37—(Continued)
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude . 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
9 8	10 6	10 6	8 4	7 8					1 8			1
11 6	11 6	11 0	8 8	8 0								2
11 4	11 0	11 0	8 6	8 0								3
C	C	C	C	7 0								4
C	C	C	C	G								5
11 6	11 4	10 4	8 5	06 8s								6
10 0	10 3	8 2	7 6	7 4								7
10 8	10 8	10 6	6 6	7 6					2 0			8
10 6	9 2	8 2	8 1	6 8							3 6	9
C	C	C	8 0	6 5								10
C	C	C	C	C	G	C						11
C	C	C	C	C		8 6						12
12 0	11 4	10 6	G	7 8				2 7			4 0	13
12 0	11 0	11 0	8 6	8 0								14
12 0	11 6	11 0	8 8	8 6								15
11 6	C	11 8	9 8	8 6					2 3			16
11 0	11 5	11 0	B	8 6							3 0	17
11 6	11 5	10 8	9 4	8 5								18
B	11 1	11 3	10 1	8 7								19
11 0	12 0	11 2	10 8	8 6								20
11 0	10 8	10 9	9 7	8 6								21
10 2	B	11 0	9 0	8 0								22
G	G	G	9 6	8 0					13 0			23
10 4	12 0	11 0	G	8 6						S		24
11 0	9 4	11 4	11 0	8 4					3 6	6 6	7 8	25
12 0	11 4	11 0	8 6	8 0								26
11 0	10 6	10 2	9 0	8 0					2 2			27
11 5	11 0	10 4	7 8	8 0								28
C	C	10 0	8 2	8 0								29
11 2	11 0	10 6	9 2	8 2								30
11 0	11 0	10 0	8 6	8 2						4 4	5 0	31
11 1	11 0	10 6	8 9	8 0					4 2		4 7	Mean
11 0	11 0	10 8	8 6	8 0				..	2 2		4 0	Median
24	23	26	26	29		1		1	6	2	5	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic fbEs
Unit Mc
Month October 1958

TABLE 38
Ionospheric Data
75.0° E Mean Time

Latitude 10.2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3 0	3 8	4 2	4 3	4 5
2									3 7	4 2	4 9	4 6
3									3 6	4 4	4 4	5 0
4								3 0	3 7	4 2	C	C
5									3 6	4 2	C	C
6									3 8	4 3	4 5	4 5
7			C	C	C	C	C	C	C	C	C	C
8							2 2	3 0	3 6	4 0	4 2	4 4
9								3 0	3 7	4 2	4 3	4 4
10	2 6							3 2	4 0	4 2	4 4	C
11								3 1	3 7	4 2	C	C
12								3 0	3 7	4 1	C	C
13									3 6	4 1	4 2	4 6
14									4 0	4 2	4 4	5 1
15								3 0	3 6	4 2	4 4	4 6
16									3 8	4 1	4 4	4 7
17									3 8	4 2	4 5	4 6
18									3 9	4 3	4 5	4 6
19									3 8	4 2	4 4	4 9
20									3 8	4 3	4 5	4 7
21								3 0	3 7	4 3	4 7	4 6
22									3 8	4 2	4 6	4 5
23	2 4							3 0	3 7	4 0	4 3	4 4
24									3 7	4 0	4 4	4 6
25					2 2			3 0	3 6	4 0	4 2	4 4
27								3 0	3 6	4 0	4 2	4 4
28			1 8		2 0	1 7		3 1	3 8	4 2	4 3	4 4
29			1 9					3 0	3 8	4 0	4 4	4 4
30									3 7	4 1	C	C
31									3 6	4 0	4 2	4 4
31								3 0	3 6	4 2	4 2	4 4
Mean								3 0	3 7	4 2	4 4	4 6
Median								3 0	3 7	4 2	4 4	4 6
Count	2		2		2	1	1	15	29	30	25	24

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fbEs
Unit Mc
Month October 1958

TABLE 38
Ionospheric Data
75.0° E Mean Time

Latitude 10 2° N
Longitude . 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4 5	4 4	4 1	3 8	3 3	2 5							1
4 6	4 6	4 2	3 8	3 4	2 6							2
4 6	4 5	4 3	3 8	3 4	2 5				2 2			3
C	C	C	C	C							2 0	4
C	C	C	C	C								5
4 6	4 3	4 2	3 8	3 3								6
4 6		4 2	3 8	3 4								7
4 4	4 4	4 2	3 8	3 4								8
4 4	4 4	4 2	3 8	3 3	2 5							9
C	C	C	3 9	3 2	2 5							10
C	C	C	C	C	C	C	C					11
C	C	C	C	C	C							12
4 6	4 4	1 1	3 8	3 2	2 6				1 8			13
4 6	4 5	4 3	6 2	3 5								14
4 6	4 5	4 2	4 0	3 8								15
C	4 5	4 3	3 9	3 4	2 5					2 0		16
4 7	4 6	4 3	4 0	3 5	2 5							17
4 6	4 4	4 1	3 8	3 4	2 5							18
C	4 7	4 3	3 9	3 4	2 5							19
4 6	4 3	4 1	3 8	3 3	2 5							20
4 8	4 6	4 3	3 8	3 3								21
4 8	4 6	4 2	3 9	3 2								22
		4 1	4 0							2 6		23
4 4	4 3	4 0	3 8	3 3						2 6		24
4 2	4 3	4 0	3 6	3 2						1 8	2 8	25
4 4	4 4	4 0	3 8	3 1								26
4 6	4 5	4 0	3 7	3 2								27
4 4	4 4	4 2	3 8	3 4								28
C	C	4 2	3 7	3 2								29
4 4	4 2	4 2	3 8	3 2								30
4 5	4 4	4 0		3 2							2 1	31
4 5	4 4	4 2	3 9	3 3	2 5							Mean
4 6	4 4	4 2	3 8	3 3	2 5							Median
22	23	26	26	26	11	.			2	4	3	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fbEs
Unit Mc
Month October 1958

TABLE 38—(Continued)
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							3 0	3 5	4 0	4 3	4 6	C
2								3 3	4 0	4 4	4 6	4 6
3								3 3	3 8	4 4	4 6	4 9
4								3 5	4 1	C	C	C
5								3 6	3 9	C	C	C
6								3 4	4 0	4 4	4 5	4 5
7		C	C	C	C	C	C	C	C	C	C	C
8						1 8	2 6	3 3	3 8	4 2	4 4	4 5
9								3 4	4 1	4 3	4 4	4 5
10							2 6		4 1	4 3	C	C
11								3 4	3 8	4 2	C	C
12							2 7	3 5	4 0	4 2	C	C
13								3 4	4 0	4 2	4 6	
14								3 5	3 9	4 3	4 8	4 6
15								3 4	4 0	4 3	4 6	4 5
16								3 4	4 0	4 3	4 6	C
17								3 5	4 0	4 3	4 5	4 8
18								3 8	4 2	4 4	4 5	4 6
19								3 4	4 0	4 4	4 7	5 0
20								3 6	4 2	4 3	4 6	4 6
21							2 7	3 4	3 9	4 3	4 5	4 6
22								3 6	4 0	4 2	4 6	4 6
23							2 8	3 5	3 8	4 2	4 4	
24									3 9	4 4	4 5	4 4
25						1 8	2 6	3 3	3 6	4 0	4 3	4 3
26								3 4	3 8	4 2	4 4	4 4
27							2 7	3 5	4 0	4 2	4 4	4 4
28		2 4		1 9	2 0		2 7	3 5	3 8	4 2	4 4	4 4
29									3 8	C	C	C
30								3 3	3 8	4 2	4 4	4 3
31								3 4	3 9	4 2	4 5	4 5
Mean							2 7	3 4	3 9	4 3	4 5	4 6
Median							2 7	3 4	4 0	4 3	4 5	4 5
Count		1		1	2	1	9	27	30	27	24	20

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic f_oE_s
 Unit Mc
 Month October 1958

TABLE 38—(Continued)
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4 4	4 3	4 0	3 6	3 0					1 8			1
4 4	4 3	4 1	3 7	3 0								2
4 6	4 4	4 1	3 6	3 0								3
C	C	C	C	3 1								4
C	C	C	C									5
4 6	4 3	3 9	3 6									6
	4 4		3 6	3 0								7
4 4	4 2	4 1		2 8					1 7			8
4 6	4 2	4 0		3 0							2 5	9
C	C	C	3 6	2 9								10
C	C	C	C	C	C	C						11
C	C	C	C	C								12
4 5	4 3	4 0		3 6				1 5			2 4	13
4 3	4 4	4 3	3 8	3 2								14
4 5	4 3	4 2	4 3	3 2								15
4 5	C	4 0	3 6	3 0					1 8			16
5 0	4 5	4 1		3 0							1 9	17
4 5	4 3	3 9	3 7	3 0								18
	4 6	4 0	3 7	3 1								19
4 5	4 3	4 0	3 6	3 0								20
4 6	4 6	4 1	3 6	3 1								21
		4 0	3 6	3 0								22
4 4	4 3	3 9		3 0					3 5			23
4 2	4 2	4 0	3 4	2 8					2 0	2 4	2 4	24
												25
4 4	4 2	4 0	3 6	2 8								26
4 6	4 1	3 8		3 0								27
4 4	4 2	3 8		3 0								28
C	C	4 2	3 6	3 0								29
4 5	4 3	4 0	3 6	2 9								30
4 5	4 3	3 8		3 0						1 9	2 4	31
4 5	4 3	4 0	3 6	3 0					2 2		2 3	Mean
4 5	4 3	4 0	3 6	3 0					1 8		2 4	Median
21	22	24	18	26				1	5	2	5	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic, f min
Unit : Mc
Month . October 1958

TABLE 39
Ionospheric Data
75 ° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	20	15	16	16	15	18	26	23	28	30	30	34
2	20	17	17	18	16	16	22	26	26	29	49	34
3	22	17	17	17	20	21	23	24	23	27	32	50
4	22	16	22	19	17	22	25	24	27	33	C	C
5	18	17	16	17	17	19	23	24	25	28	C	C
6	16	17	17	16	16	18	24	25	27	30	33	34
7	14	17	C	C	C	C	C	C	C	C	C	C
8	18	16	15	16	17	17	17	19	24	27	30	30
9	20	16	16	16	17	15	21	20	26	30	30	32
10	17	19	16	17	17	17	22	24	32	32	30	C
11	13	17	17	15	17	18	23	21	24	31	C	C
12	15	17	17	15	21	20	22	22	27	30	C	C
13	17	22	22	17	20	21	24	22	23	26	28	36
14	21	16	17	20	17	16	23	23	31	30	32	51
15	23	19	16	19	19	17	22	22	25	29	31	33
16	19	18	15	15	15	16	22	22	27	30	30	43
17	15	17	16	16	17	17	23	22	29	31	34	36
18	17	18	15	16	16	17	23	26	29	33	32	35
19	16	16	17	20	17	16	26	25	29	32	33	37
20	17	16	19	20	17	18	23	25	29	34	33	34
21	19	21	19	20	22	20	22	22	25	35	43	36
22	20	15	16	15	18	16	18	24	30	32	38	36
23	16	15	15	15	18	16	22	24	42	33	30	32
24	18	17	19	13	14	12	22	21	24	30	30	32
25	22	14	17	14	14	16	23	19	24	26	28	30
26	16	15	17	19	19	17	22	20	26	28	30	30
27	16	16	17	18	15	16	23	24	28	30	32	32
28	15	12	15	17	13	12	20	22	26	30	32	32
29	16	16	14	15	14	17	24	24	28	30	C	C
30	16	18	17	17	20	19	23	22	24	26	28	30
31	16	18	16	18	22	18	22	23	26	30	30	30
Mean	18	17	17	17	17	17	22	23	27	30	32	35
Median	17	17	17	17	17	17	23	23	26	30	31	34
Count	31	31	30	30	30	30	30	30	30	30	25	24

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic f min
Unit Mc
Month October 1958

TABLE 39
Ionospheric Data
75° E Mean Time

Latitude 10.2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3 3	3 6	3 0	2 6	3 3	2 5	1 6	1 3	2 0	1 8	1 7	1 8	1
3 6	3 3	3 0	2 6	2 5	2 6	1 6	2 0	1 7	1 9	2 0	1 6	2
3 8	3 5	3 2	2 5	2 4	2 5	1 6	1 7	1 4	1 6	1 6	1 7	3
C	C	C	C	3 6	2 6	1 6	2 0	2 0	2 0	1 7	1 5	4
C	C	C	C	C	3 0	1 7	1 8	1 8	2 0	1 8	1 7	5
3 5	3 3	3 0	2 8	2 6	2 6	1 6	1 6	1 8	1 8	1 5	1 5	6
4 2	4 6	3 0	3 0	2 4	2 4	1 5	1 8	2 0	2 2	1 7	1 7	7
3 2	3 0	2 8	2 5	2 5	2 4	1 6	2 0	1 9	2 0	1 7	1 5	8
3 5	3 2	3 0	2 6	2 4	2 2	1 5	1 8	2 0	1 8	1 9	1 7	9
C	C	C	2 7	2 4	1 9	1 7	1 9	2 0	2 0	1 6	1 7	10
C	C	C	C	C	C	C	C	1 7	2 0	1 8	1 6	11
C	C	C	C	C	C	1 6	2 0	2 0	1 7	1 7	1 6	12
3 6	3 1	3 0	2 5	2 2	1 6	1 7	1 6	1 8	1 7	2 0	2 0	13
3 1	3 1	3 1	3 2	3 4	3 1	1 8	2 0	2 0	1 9	1 8	1 9	14
3 1	3 1	3 0	3 2	3 8	2 8	2 0	1 4	2 0	2 0	1 9	1 8	15
C	3 1	3 0	2 8	2 4	2 2	1 5	1 9	2 1	1 5	1 7	1 5	16
3 4	3 6	3 2	2 9	2 4	2 1	2 0	1 8	1 6	1 8	1 9	1 7	17
3 5	3 2	3 1	2 7	2 6	2 2	1 5	2 0	1 9	1 8	1 9	1 8	18
C	3 9	3 2	2 9	2 8	2 2	1 8	1 8	2 0	1 9	1 9	2 2	19
3 3	3 1	3 0	2 6	2 6	2 2	1 6	1 9	2 0	1 8	1 8	1 9	20
4 4	1 3	1 0	2 7	2 7	2 5	1 8	1 8	1 9	2 0	1 8	1 8	21
3 8	3 4	3 0	2 1	2 5	2 2	1 6	1 5	1 6	2 4	1 7	2 0	22
1 1	3 1	3 0	2 8	3 1	2 4	1 7	2 0	1 6	1 6	2 3	2 2	23
3 4	3 2	3 1	2 8	2 4	2 4	1 3	1 9	1 8	2 2	2 4	2 2	24
3 0	3 0	2 8	2 1	2 5	2 5	1 7	1 5	1 8	1 8	1 6	1 8	25
3 1	3 0	2 6	2 8	2 1	2 4	1 4	1 9	1 7	1 6	1 9	1 6	26
3 2	3 2	3 0	2 6	3 0	2 6	1 5	1 7	1 9	2 0	1 7	1 8	27
3 4	3 4	3 0	2 5	2 8	2 5	1 5	1 8	2 0	2 2	1 7	1 5	28
C	C	3 1	2 8	2 4	2 4	1 4	2 2	1 8	1 9	2 2	1 7	29
3 0	3 0	2 8	2 6	2 6	2 5	1 3	1 8	1 8	1 7	1 8	1 6	30
3*4	1 0	3 0	4 0	2 6	2 4	1 4	1 8	1 9	1 8	1 4	1 7	31
3 5	3 4	3 0	2 8	2 7	2 4	1 6	1 8	1 9	1 9	1 8	1 8	Mean
3 4	3 3	3 0	2 7	2 6	2 4	1 6	1 8	1 9	1 9	1 8	1 7	Median
23	25	26	27	28	29	30	30	31	31	31	31	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic f min
Unit Mc
Month October 1958

TABLE 39—contd
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1 8	1 3	1 7	1 7	1 7	2 1	2 5	2 5	3 0	3 0	3 2	3 2
2	1 9	1 6	1 7	1 6	1 6	2 2	2 4	2 5	2 8	3 8	3 8	3 5
3	1 7	1 6	1 8	1 8	2 2	2 2	2 1	2 2	2 4	3 1	3 3	4 9
4	1 8	1 8	2 2	1 7	1 8	2 2	2 3	2 6	3 1	C	C	C
5	1 7	1 7	1 6	1 6	1 8	1 9	2 0	2 8	2 6	C	C	C
6	1 6	1 4	1 7	1 7	1 7	2 0	3 0	2 4	2 8	3 1	3 3	3 3
7	1 4	C	C	C	C	C	C	C	C	C	C	C
8	1 6	1 5	1 7	1 7	1 7	1 3	1 8	2 3	2 7	2 8	3 0	3 0
9	1 9	1 3	1 5	1 6	1 7	1 8	1 8	2 2	2 8	3 0	3 1	3 5
10	2 2	2 0	2 0	1 9	1 7	2 0	1 9	4 0	3 0	2 9	C	C
11	1 6	1 6	1 8	1 7	1 7	1 9	2 1	2 3	2 8	3 0	C	C
12	1 8	1 8	1 5	1 8	1 9	2 0	2 2	2 6	3 0	2 8	C	C
13	2 1	2 4	2 1	2 1	2 2	2 2	2 2	2 2	2 6	2 6	3 1	5 6
14	1 7	1 6	1 6	1 8	1 7	1 8	2 2	2 5	3 2	3 2	3 8	3 7
15	2 2	1 7	1 8	2 0	1 7	1 8	2 0	2 3	3 0	3 0	3 0	3 2
16	1 7	2 0	1 6	1 7	1 6	1 8	2 1	2 4	3 0	3 0	3 5	C
17	1 6	1 7	1 5	1 6	1 5	1 8	2 1	2 6	3 0	3 0	3 4	3 4
18	1 6	1 6	1 7	1 6	1 6	1 8	2 9	2 6	3 1	3 2	3 4	3 4
19	1 5	2 1	1 7	1 9	1 6	1 9	2 6	2 6	3 1	3 4	3 3	3 8
20	1 7	2 0	1 9	1 9	1 7	2 0	2 8	2 6	3 2	3 2	3 4	3 5
21	1 7	1 9	2 2	2 1	2 3	1 9	2 0	2 3	2 8	4 0	3 5	3 5
22	1 7	1 8	1 5	1 6	1 8	1 8	2 2	2 6	3 0	3 4	3 4	3 5
23	2 6	1 5	1 7	1 8	1 6	1 6	2 2	2 6	3 2	3 2	3 2	3 1
24	1 9	1 8	1 7	1 6	1 3	1 7	2 0	2 5	2 8	2 8	3 1	3 2
25	1 9	1 5	1 4	1 3	1 3	1 6	1 9	2 2	2 6	2 6	2 8	3 0
26	1 7	1 4	1 6	2 0	1 8	1 8	2 0	2 1	2 6	2 8	3 0	3 2
27	1 7	1 6	1 8	1 7	1 5	1 9	2 3	2 6	2 8	3 3	3 8	3 4
28	1 6	1 2	1 7	1 1	1 2	1 7	2 0	2 4	2 6	3 0	3 0	3 4
29	1 7	1 5	1 9	1 7	1 7	1 8	2 7	3 0	3 0	C	C	C
30	1 7	1 7	1 6	1 7	1 9	2 0	2 2	2 3	2 8	3 0	3 0	3 0
31	1 7	1 6	1 6	1 8	1 9	1 8	2 4	2 6	2 7	3 0	3 0	3 0
Mean	1 8	1 7	1 7	1 7	1 7	1 9	2 2	2 5	2 9	3 1	3 3	3 5
Median	1 7	1 6	1 7	1 7	1 7	1 8	2 2	2 5	2 8	3 0	3 2	3 4
Count	31	30	30	30	30	30	30	30	30	27	24	23

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic f mm
Unit Mc
Month October 1958

TABLE 39—*contd*
Ionospheric Data
75° E Meridian

Latitude 10 2° N
Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.4	3.2	3.0	3.0	2.4	2.0	1.0	1.9	1.8	1.7	1.6	1.7	1
3.4	3.1	2.8	2.8	2.4	2.1	1.3	1.8	2.0	2.0	2.3	2.0	2
3.6	3.4	3.0	2.8	2.4	2.0	1.5	2.0	1.7	2.0	1.8	1.7	3
C	C	C	C	3.0	2.1	1.6	2.0	2.0	2.2	2.0	1.7	4
C	C	C	C	3.1	2.3	1.8	2.2	2.1	1.8	2.0	1.6	5
3.4	3.1	2.8	2.8	3.0	2.0	1.7	2.0	1.4	1.5	1.4	1.5	6
4.6	3.4	4.2	2.8	2.4	2.0	1.3	2.0	2.0	1.7	1.7	1.9	7
3.1	3.0	2.6	2.4	1.8	2.2	1.6	2.0	1.8	1.3	1.7	1.6	8
3.4	3.0	3.0	2.8	2.4	2.0	1.5	1.9	1.9	2.1	1.9	1.9	9
C	C	C	2.6	2.2	1.9	1.3	1.9	1.9	1.6	1.4	1.6	10
C	C	C	C	C	C	C	2.2	2.0	2.0	1.9	1.8	11
C	C	C	C	C	2.1	1.5	2.0	1.7	1.8	1.6	1.6	12
3.2	3.1	2.8	2.8	2.5	1.4	1.5	2.0	1.3	1.9	2.2	2.2	13
3.4	3.6	4.3	3.2	2.8	2.4	1.2	2.0	1.9	1.8	1.6	2.2	14
3.4	3.2	4.1	4.3	3.2	2.6	1.7	1.7	2.0	2.0	2.1	1.5	15
3.4	C	2.9	2.8	2.2	2.1	1.2	1.9	1.8	1.8	1.9	1.7	16
3.8	3.4	2.9	4.6	2.4	2.0	1.9	1.8	1.8	1.9	1.8	1.8	17
3.4	3.3	2.9	2.6	2.5	2.0	1.7	2.2	1.8	1.8	1.9	1.6	18
7.0	3.5	3.0	3.0	2.5	2.0	1.4	2.0	2.1	2.0	2.0	2.0	19
3.2	3.1	2.9	2.6	2.4	2.0	2.0	1.9	1.9	1.9	1.8	2.1	20
4.5	4.1	3.1	2.8	2.6	2.0	1.7	1.9	1.9	2.1	1.9	1.6	21
5.0	4.8	2.8	2.6	2.6	2.2	1.3	2.0	2.0	2.4	2.0	1.9	22
3.2	3.2	3.0	3.6	3.0	1.9	1.3	1.7	1.8	2.0	2.6	2.0	23
3.2	3.1	3.1	2.7	2.4	2.0	1.3	2.0	2.2	2.2	2.6	1.8	24
3.0	3.0	2.8	2.8	2.4	1.8	1.8	2.0	2.0	E	1.4	2.1	25
3.0	3.0	2.8	2.5	2.3	1.8	1.6	1.7	1.6	1.7	2.1	1.7	26
3.2	3.0	2.8	3.5	2.6	2.0	1.4	1.8	1.8	1.7	2.0	1.7	27
3.0	3.0	3.0	3.6	2.4	1.9	1.3	1.6	1.8	2.0	1.6	1.5	28
C	C	4.2	2.6	2.4	1.7	1.5	2.1	1.7	2.2	2.0	1.7	29
3.0	3.0	2.6	2.6	2.3	1.8	1.4	2.0	1.9	1.8	1.8	1.8	30
3.2	3.2	2.7	3.8	2.4	1.7	1.5	1.9	1.8	1.8	1.5	1.9	31
3.6	3.3	3.1	3.0	2.5	2.0	1.5	1.9	1.9	1.9	1.9	1.8	Mean
3.4	3.2	2.9	2.8	2.4	2.0	1.5	2.0	1.9	1.9	1.9	1.7	Median
25	24	26	27	29	30	30	31	31	31	31	31	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h/F2
 Unit Km
 Month October 1958

TABLE 40
 Ionospheric Data
 75 ° E Mean Time

Latitude 10.2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								C	C	C	C	C
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	C	C
12								L	L	L	C	C
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	C	C
30								L	L	L	L	L
31								L	L	L	L	L
Mean												.
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h/F₂
 Unit Km
 Month October 1958

TABLE 40
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
C	C	C	C	C	L							4
C	C	C	C	C	L							5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
C	C	C	C	C	L							9
C	C	C	C	C	L							10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
C	C	C	C	C	C							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
C	C	C	C	C	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
												Mean
												Median
	1	.										Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h/F_2
 Unit Km
 Month October 1958

TABLE 40—*contd.*
 Ionospheric Data
 75° E Mean Time

Latitude 10° 2' N
 Longitude 77° 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	C	C	C
5								L	L	C	C	C
6								L	L	L	L	L
7							C	L	L	L	L	L
8								L	L	L	L	L
9							L	L	L	L	L	L
10								L	L	L	L	L
11							L	L	L	L	C	C
12							L	L	L	L	L	L
13								L	L	L	L	L
14							L	L	L	L	L	L
15								L	L	L	L	L
16							L	L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27							L	L	L	L	L	L
28								L	L	L	L	L
29							L	L	L	C	C	C
30								L	L	L	L	L
31							L	L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'F₂
 Unit Km
 Month October 1958

TABLE 40—*cont'd*
 Ionospheric Data
 75 0° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
C	C	C	C	C								4
C	C	C	C	C								5
												6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
C	C	C	C	C								10
C	C	C	C	C								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	LH	L	L	L								31
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h'F
Unit Km
Month October 1958

TABLE 41
Ionospheric Data
75 ° E Mean Time

Latitude 10.2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	240	280	305	235	245	270	275	250	240	220	215	215
2	260	225	220	240	230	220	260	240	235	220	220	235
3	260	240	260	240	240	240	265	245	250	220	215	B
4	255	275	275	240	220	220	260	240	235	220	C	C
5	245	240	240	235	225	210	255	240	235	220	C	C
6	250	255	250	240	240	250	270	245	230	225	215	210II
7	240	235	C	C	C	C	C	C	C	C	C	C
8	260	250	240	225	220	230	275	250	240	225	220	220
9	255	225	230	230	220	220	265	240	225II	225	210II	220
10	260	240	240	245	220	210	260	245	245	225	220	C
11	260r	240	240r	230F	230	220	260	240	230	220	C	C
12	235	U245F	255	225	235	225	270	250	235	220	C	C
13	245	250	240	U240r	240	U230r	260	245	230	225	200	210
14	U275F	250	U245i	U240r	235	210	260	245	240	220	215	B
15	260	245	235	230	230	220	270	245	230	230	220	230
16	260	260	260	240	220	220	260	250	235	220	220	U225B
17	270	245	250	240	235	230	280	250	240	225	225	220
18	280	260	245	245	240	230	280	260	240	235	220	220
19	280	280	240	240	225	225	280	250	245	230	230	235
20	280	280	300	U280r	240	235	270	255	245	235II	230	230
21	280	270	265	240	230	240	280	250	240	230	230	220
22	280	260	260	210	240	240	280	260	240	240	235	225
23	300	280	280	280	300	380	300	260	U250B	240	235	230
24	275	280	280	240	260	240	270	250	240	230	220	220
25	280	280	280	350	350	500	280	250	240	220	220	220
26	260	240	240	240	220	220	260	240	240	220	220	210
27	245	230	240	255	270	265	280	255	240	235	220	225
28	225	240	295	320	310	300	280	255	240	235	230	220
29	255	295	300	270	240	230	275	250	240	230	C	C
30	250	230	225	230	255	240	275	245	235	220	215	210
31	255	255	235	220	230	250	280	250	235	225	220	210
Mean	260	255	255	250	245	245	270	250	240	225	220	220
Median	260	250	250	240	235	230	270	250	240	225	220	220
Count	31	31	30	30	30	30	30	30	30	30	25	22

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h'F

TABLE 41

Latitude 10.2° N

Unit Km

Ionospheric Data

Longitude : 77.5° E

Month October 1958

75 0° E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
220	220II	230	230	240	270	335	480	450	380	340	320	1
220	220II	215	225	240	275	350	500	500	420	380	310	2
215II	220	220	230	245	270	340	460	440	330	265	260	3
C	C	C	C	250	275	355	500	500	380	275	260	4
C	C	C	C	C	270	360	500	540	F	340	245	5
225	220	220	230	240	270	345	500	U390F	300	250	245	6
U230B	230	230	240	250	270	350	L	F	U305F	305	275	7
220	220	230	235	250	270	350	F	F	U320F	305	270	8
220	225	220	230	250	275	355	U445F	U400F	U365F	295	260	9
C	C	C	230	245	270	355	L	U450F	360F	330	280	10
C	C	C	C	C	C	C	C	U420F	F	U330F	U255F	11
C	C	C	C	C	C	370	F	F	F	U320F	U260F	12
225	215	220	235	250	280	365	U480F	U370F	U310F	U320F	U305F	13
210	230	230	A	250	275	355	F	U460F	U370F	U340F	280	14
225	220	220	240	260	275	365	U520F	U380F	U400F	U355F	280	15
C	230	230	240	260	285	380	U505F	L	U280F	300	275	16
230	230	235	240	260	290	400	520	U470F	F	L	U280F	17
220	220	235	240	260	295	385	U580F	F	F	U380F	345	18
C	U240B	235	245	260	295	390	540	F	U435F	U390F	U300F	19
225	220	220	230II	260	295	400	U545F	F	F	U385F	300F	20
230	230	225	240	260	290	400	U505F	F	F	330	320	21
220	220	240	240	260	300	380	365	320	300	280	280	22
220	220	225	250	260	300	380	400F	305	260	270	260	23
220	220	240	240	255	280	340	300	240	260	255	260	24
215	225	230	240	250	275	360	400F	U500F	U400F	340	320F	25
210	220	220	240	250	280	380	F	U300F	U300F	U400F	260	26
225	220	225	240	250	285	375	460F	500F	300F	290	260	27
225	230	230	240	255	290	385	400	300	260	260	250	28
C	C	240	240	255	280	380	400	380	340	320	270	29
220	220	220	230	250	280	380	F	420F	320	280	260	30
210	210II	210	240	255	280	380	510F	400F	450F	340	300	31
220	225	225	235	250	280	370	470	410	340	320	280	Mean
220	220	230	240	250	280	370	500	420	325	320	275	Median
23	25	26	26	28	29	30	23	23	24	30	31	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'F
Unit Km
Month October 1958

TABLE 41—*cont'd*
Ionospheric Data
75 0° E M in Line

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	255	270	270	240	260	230	260	240	230	220	210	200
2	240	220	225	230	220	240	250	240	230	220	220	220
3	245	240	210	230	210	240	255	240	225	220	220	U220B
4	260	275	260	225	220	220	255	240	230	C	C	C
5	240	235	235	235	220	225	245	240	225	C	C	C
6	245	240	250	230	255	250	255	240	230II	220	210II	225
7	230	C	C	C	C	C	C	C	C	C	C	C
8	250	250	230	220	225	260	260	240	225	220	215	220
9	240	225	230	220	225	235	250	240	220II	225	225	220
10	240	245	240	255	220	235	250	250	235	215II	C	C
11	240F	240	240	220	220	240	250	240	225	220	C	C
12	235	U250F	240	U225I	230	240	255	240	225	210	C	C
13	250	U250F	250	U250I	U230F	U230F	250	240	225	210	210	B
14	260	U245I	230	240	220	230	250	240	230	215	B	210
15	250	230	240	235F	230	240	255	240	230	220	225	230
16	250	255	245	235	225	240	260	240	225	215	215	C
17	260	215	245	240	235	245	260	240	235	220	220	235
18	270	245	240	215	235	250	260	245	240	225	225	225
19	290	265	235	235	230	245	260	245	240	225	230	U240B
20	300	295II	290	240	230	250	260	245	240	230II	220	220
21	280	265	250	235	235	260	270	245	235	230	210II	230
22	260	260	260	240	235	260	260	250	240	230	235	220
23	300	280	280	300	320	370	270	260	240	235	230	220
24	280	280	260	250	260	250	260	240	240	220	210II	220
25	280	270	320	340	405	310	260	240	235	220	215	220
26	250	220	230	220	220	220	250	240	230	220	210	200
27	240	230	245	260	280	255	270	245	235	230	220	225
28	225	270	300	320	295	300	265	245	235	230	225	220
29	280	300	290	260	230	245	260	250	235	C	C	C
30	245	230	220	240	240	235	255	240	225	220	210	205
31	260	240	230	225	240	265	260	240	230	220	220	210
Mean	255	255	250	245	245	255	255	245	230	220	220	220
Median	250	250	240	235	230	245	260	240	230	220	220	220
Count	31	30	30	30	30	30	30	30	30	27	23	22

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'F
Unit Km
Month October 1958

TABLE 41—cont'd
Ionospheric Data
75° 0' E Magnetic Line

Latitude : 10.2° N
Longitude 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
220	220	225	240	260	300	110	500	110	360	315	260	1
205II	220	220	240	260	300	115	500	510	F	310	280	2
220	215II	220	240	260	300	135	165	560	300	260	250	3
C	C	C	C	260	300	150	F	470	F	260	250	4
C	C	C	C	260	300	155	500	180	115	295	245	5
225	225	225	240	260	300	155	U1301	335	270	210	250	6
225	225	235	240	260	300	125	F	F	315	280	260	7
220	220	235	245	255	300	F	F	F	U3401	300	255	8
225	220II	230	210	260	300	F	U1601	U1171	355	260	255	9
C	C	C	240	260	300	U1101	F	U1801	340	280	260	10
C	C	C	C	C	C	C	U5401	F	U320F	U3801	U2401	11
C	C	C	C	C	305	F	F	F	U3051	U270F	240	12
220	215	230	240	270	305	115	U1401	U3001	U3651	U3101	U300F	13
210	210	235	245	265	305	105	U3001	U1201	U3101	U305F	275	14
225	220	230	255	265	300	155	F	U3851	U1001	300F	280	15
225	C	240	245	260	320	U1151	F	F	U3201	280	270	16
240	230	240	U260B	270	320	505	U1651	U540F	F	F	280	17
220	230	235	245	280	320	175	F	F	U1201	360	300	18
B	235	235	250	280	320	180	U6001	U5101	U1051	U3801	275	19
220	225	225	250	275	320	U5051	F	F	U3951	U3801	295	20
235	230	230	250	275	325	480	U5101	U190F	F	305	305	21
B	B	240	255	280	330	100	340	300	300	290	280	22
225	230	240	250	275	320	120	340	280	300	260	265	23
220	230	240	250	260	310	310	280	240	260	240	280	24
220	225	235	240	260	300	100	F	U510F	U350F	320F	280	25
205	220	225	240	260	310	F	F	U2701	U320F	320	245	26
225	220	240	245	270	300	U1201	520	3801	U3001	280	230	27
230	225	235	250	260	315	120	350	280	260	250	240	28
C	C	240	250	265	310	110	400	310	325	300	260	29
220	220	230	240	260	310	110	F	380	300	270	255	30
220	200II	220	245	265	310	480	F	3801	440F	320	300	31
220	220	230	245	265	310	110	450	390	340	295	265	Mean
220	220	235	245	260	305	110	465	380	325	290	260	Median
23	23	26	27	29	30	26	18	21	27	30	31	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'E
Unit Km
Month October 1958

TABLE 42
Ionospheric Data
75 ° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								120	110	A	A	A
2								120	110	A	B	A
3								115	105	A	A	B
4								115	110	110	C	C
5								115	A	A	C	C
6								120	110	110	A	A
7							C	C	C	C	C	C
8								110	105	110	A	A
9								110	A	A	A	A
10								110	A	A	A	A
11								A	A	A	C	C
12								A	A	A	C	C
13								115	110	105	A	B
14								120	A	A	A	B
15								115	A	A	A	A
16								115	A	A	A	B
17								120	A	A	A	B
18								120	115	A	A	A
19								120	A	A	A	B
20								125	115	A	A	A
21								115	A	B	B	B
22							130	120	120	110	B	A
23								A	B	120	110	110
24								120	110	110	110	110
25								110	110	A	A	A
26								110	A	A	A	A
27								120	120	120	120	120
28								120	A	120	A	A
29								120	120	115	C	C
30								120	115	A	A	A
31								110	110	110	A	A
Mean								115	110	115		
Median								120	110	110		
Count							1	27	16	11	3	3

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'E
 Unit Km
 Month October 1958

TABLE 42
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
105	A	A	A	B								1
A	A	A	A	110								2
A	A	A	A	115								3
C	C	C	C	B	B							4
C	C	C	C	C								5
A	A	A	A	120								6
B	B	A	120	120								7
A	A	110	110	115								8
A	A	115	110	115	120							9
A	A	A	110	115	120							10
C	C	C	C	C	C							11
C	C	C	C	C	C							12
B	A	A	115	A								13
A	A	A	A	A								14
A	A	A	A	B								15
C	A	A	A	A								16
B	B	A	A	A	A							17
A	A	A	A	A	A							18
C	B	A	A	A								19
A	A	A	A	A	A							20
B	B	B	A	A								21
B	A	110	A	120								22
B	120	120	A	B								23
A	A	110	120	120								24
A	110	A	120	120								25
A	A	A	110	120								26
120	120	120	120	A								27
115	120	115	A	120								28
C	C	120	A	A								29
A	A	A	110	120								30
A	A	A	B	120								31
		115	115	120								Mean
		115	110	120								Median
3	4	8	10	14	2							Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic : h'E
 Unit : Km
 Month October 1958

TABLE 42—cont'd
 Ionospheric Data
 75° E Mean Time

Latitude 10 2° N
 Longitude 77 5°

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								110	A	A	A	A
2							120	110	A	B	A	A
3							120	105	A	A	A	B
4							120	110	110	C	C	C
5							115	115	A	C	C	C
6								120	110	A	110	A
7							C	C	C	C	C	C
8							110	110	110	A	A	A
9							120	110	A	A	A	A
10							120	B	115	A	C	C
11							120	110	A	A	C	C
12							130	A	A	A	C	C
13							120	A	105	A	A	B
14							120	115	A	A	B	B
15							120	A	A	A	A	A
16							120	115	A	A	B	C
17							125	115	A	A	B	B
18								115	A	A	A	A
19								A	A	A	A	B
20								120	A	A	A	A
21							120	A	A	B	B	A
22							125	120	110	110	A	A
23							A	110	120	110	115	110
24							120	120	110	110	110	A
25							110	110	A	A	A	A
26							120	A	A	A	A	A
27							125	120	120	A	B	120
28							120	115	A	A	A	A
29								120	120	C	C	C
30								115	110	A	A	A
31								110	110	A	A	A
Mean							120	115	110			
Median							120	115	110			
Count							21	23	12	3	3	2

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'E
 Unit . Km
 Month October 1958

TABLE 42—contd
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
115	A	A	A	A								1
A	A	A	A	A								2
A	A	A	A	A								3
C	C	C	C	A								4
C	C	C	C	B								5
A	A	A	120									6
B	A	B	120	120								7
A	A	110	110	A								8
A	115	115	115	120								9
C	C	C	110	115								10
C	C	C	C	C								11
C	C	C	C	C								12
A	A	110	120									13
A	A	B	A									14
A	A	B	B									15
A	C	A	A	A								16
B	A	A	B	A								17
A	A	A	A	A								18
B	B	A	A	A								19
A	A	A	A	A								20
B	B	A	A	A								21
B	B	A	115	A								22
120	120	120	B	B								23
A	110	120	120	120								24
A	120	A	120	120								25
A	A	110	110	120								26
A	120	120	B									27
115	120	A	B	120								28
C	C	B	A	120								29
A	A	110	110	120								30
A	A		B	A								31
	120	115	115	120								Mean
	120	110	115	120								Median
3	6	8	11	9								Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'Es
Unit Km
Month October 1958

TABLE 43
Ionospheric Data
75 ° E Mean Time

Latitude 10.2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								105	100	100	100	100
2								G	100	100	100	100
3								G	100	100	100	100
4								105	100	100	C	C
5								G	100	100	C	C
6								G	100	100	100	100
7								C	C	C	C	C
8			C	C	C	C	110	105	100	100	100	100
9								105	100	100	100	100
10	105							105	100	100	100	C
11	100							105	100	100	C	C
12							135	100	100	100	C	C
13								G	100	100	100	100
14								G	100	100	100	100
15								105	100	100	100	100
16								G	100	100	100	100
17								G	100	100	100	100
18								G	100	100	100	100
19								G	100	100	100	100
20								G	100	100	100	100
21								100	100	100	100	100
22							G	G	100	100	100	100
23	105							105	100	100	100	100
24								G	100	100	100	100
25					100			100	100	100	100	100
26								100	100	100	100	100
27								110	105	105	100	100
28		120	120		110	105		110	100	100	100	100
29			110					G	100	100	C	C
30								G	100	100	100	100
31								100	100	100	100	100
Mean								105	100	100	100	100
Median								105	100	100	100	100
Count	3	1	2		2	1	2	15	30	30	25	24

Sweep 1 Mc to 25 Mc in 27 Seconds

Characteristic h'Es
Unit Km
Month October 1958

TABLE 43
Ionospheric Data
75° 0' E Magnetic Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	105					120		1
100	100	100	100	100	110							2
100	100	100	100	100	110				120			3
C	C	C	C	C	G						105	4
C	C	C	C	C	G							5
100	100	100	100	105	110							6
100	100	100	100	105	110							7
100	100	100	100	105	105							8
100	100	100	100	105	110							9
C	C	C	100	105	110							10
C	C	C	C	C	C	C	C					11
C	C	C	C	C	C							12
100	100	100	100	100	100				125			13
100	100	100	100	105	110							14
100	100	100	100	105								15
C	100	100	100	100	100					105		16
100	100	100	100	100	100						120	17
100	100	100	100	100	100							18
C	100	100	100	100	110							19
100	100	100	100	100	100							20
100	100	100	100	100								21
100	100	100	100	100	105							22
B	G	100	105	105	110					100		23
100	100	100	100	105						110	105	24
100	100	100	100	105						120	110	25
100	100	100	100	105								26
100	100	100	100	105						120		27
100	100	100	100	100								28
C	C	100	100	110								29
100	100	100	100	100								30
100	100	100	100	100							110	31
100	100	100	100	105	105					115	110	Mean
100	100	100	100	100	110					120	110	Median
22	24	26	27	27	16				2	7	5	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'Es
Unit Km
Month October 1958

TABLE 43—(contd)
Ionospheric Data
75.0° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							125	100	100	100	100	100
2							G	100	100	100	100	100
3							G	100	100	100	100	100
4							G	100	100	C	C	C
5							G	100	100	C	C	C
6								105	100	100	100	100
7		C	C	C	C	C	C	C	C	C	C	C
8							100	100	100	100	100	100
9						105	G	100	100	100	100	100
10							120	105	100	100	C	C
11	100						G	100	100	100	C	C
12							130	100	100	100	C	C
13							G	100	100	100	100	B
14							G	105	100	100	100	100
15							G	100	100	100	100	100
16							G	100	100	100	100	C
17							G	100	100	100	100	100
18								100	100	100	100	100
19								100	100	100	100	100
20								100	100	100	100	100
21							100	100	100	100	100	100
22							G	100	100	100	100	100
23							105	105	100	100	100	G
24							G	G	100	100	100	100
25						105	100	100	100	100	100	100
26							G	100	100	100	100	100
27							120	110	105	100	100	100
28		120		110	110	110	110	110	110	100	100	100
29								G	100	C	C	C
30								100	100	100	100	100
31								100	100	100	100	100
Mean							110	100	100	100	100	100
Median							110	100	100	100	100	100
Count	1	1		1	2	2	9	28	30	27	24	21

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'Es
Unit Km
Month October 1958

TABLE 43—*contd*
Ionospheric Data
75° E Mean Time

Latitude 10 2' N
Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100					120			1
100	100	100	100	105								2
100	100	100	100	105								3
G	G	G	G	100								4
G	G	G	G	G								5
												6
100	100	100	100	105								7
100	100	100	100	110								8
100	100	100	100	105					125			9
100	100	100	105	105						105		10
G	G	G	105	105								11
G	G	G	G	G	G							12
G	G	G	G	G		G						13
100	100	100	G	100				125			110	14
100	100	105	110	110								15
110	110	100	110	105								16
									120			17
100	G	100	100	100							120	18
100	100	100	B	100								19
100	100	100	100	100								20
B	100	100	100	100								21
100	100	100	100	100								22
100	B	100	100	100								23
G	G	G	105	105					105			24
100	100	100	G	110						105		25
100	100	100	100	110					120	120	120	26
												27
100	100	100	105	110					115			28
100	100	100	100	115								29
100	100	100	100	100								30
G	G	100	110	110								31
100	100	100	100	100						110	110	31
												Mean
100	100	100	100	105					120		115	Median
100	100	100	100	105					120		110	Count
21	21	21	21	28		1		1	6	3	5	

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic (M3000) F2

TABLE 44

Latitude 10 2° N

Unit . . .

Ionospheric Data

Longitude 77 5° E

Month October 1958

75 0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2 90	2 80	2 65	2 90	2 90	2 75	U2 75S	2 60	U2 30R	U2 25R	2 20	2 10
2	U2 55F	F	3 00	3 10	F	F	3 00R	2 90	2 60R	U2 35R	2 20	2 15
3	F	F	U2 90F	U3 00R	F	3 10	3 00	2 95	2 70	2 35	U2 10R	U2 20R
4	U2 65S	U2 05S	U2 70S	U2 85S	3 00	3 10	3 15	2 80	2 40	U2 30R	C	C
5	F	F	S	2 90	3 00	3 40	3 05	3 00	2 65	U2 30R	C	C
6	U2 75S	2 70R	2 85L	2 85	F	2 90F	2 95	2 80	2 60	2 25	2 15	2 15
7	J2 70S	2 90S	C	C	C	C	C	C	C	C	C	C
8	F	F	2 70	2 90	3 15F	3 10	U2 95S	2 65	2 40	2 25	2 35	2 15
9	F	F	F	3 00	3 10	3 35	3 00	2 75	2 40	2 35	2 30	2 20
10	U2 80R	U3 05F	U2 85R	3 00	3 15F	3 30R	F	2 85	2 45	2 25	2 20	C
11	U2 85F	2 85	F	F	3 20	3 40	3 10	2 90	2 50	2 25	C	C
12	U2 80F	F	U2 90R	F	F	U3 25R	U3 10F	U2 80S	2 40	2 20	C	C
13	F	F	2 95R	F	F	F	U3 00R	U3 05F	2 75	2 25	2 20	2 15
14	F	U3 00I	U3 05R	F	3 05	3 40	3 00	2 95	2 55	2 15	2 10	2 10
15	F	U3 00R	U3 05I	U3 15R	F	3 15	2 95	2 80	2 40	2 30	2 20	2 15
16	FS	2 85	2 90	2 85	3 10	L	2 90	2 80	2 55	2 15	2 05	2 10
17	FS	F	FS	U2 90R	U3 00I	F	U2 85I	U2 75S	2 55	2 20	2 10	2 10
18	F	2 65	FS	2 85	FS	F	U2 85R	2 70	2 55	2 25	2 00	2 05
19	FS	F	FS	2 90	3 00	2 90	2 80	2 70	2 45	2 30	2 10	2 05
20	FS	F	F	F	FH	2 95	2 85	2 70	2 65	2 40	2 15	2 10
21	F	F	F	F	F	U2 95F	2 75	2 60	2 25	2 20	2 15	2 10
22	F	F	U2 60R	F	2 95	3 15	2 80	2 70	2 55	2 25	2 15	2 05
23	U2 55S	2 50	2 55	2 60	2 55	2 30	2 10I	2 60	2 30	U2 25R	2 20	2 15
24	2 70	2 70	2 70	2 80	2 85	U2 95S	2 90	2 80	2 60	2 40	2 30	2 20
25	2 75	2 80	U2 70S	2 50	2 50	J2 00R	U2 70S	2 70	2 45	2 40	2 20	2 20
26	F	F	U3 00S	F	U3 25F	3 40	2 90	J3 00S	2 55	2 40	2 20	2 25
27	F	U2 90R	2 95	F	2 80	2 80	2 80	2 65	2 50	2 40	2 30	2 25
28	U2 90R	F	2 65	2 50	2 65	U2 70R	2 60I	2 30I	2 50	2 30	2 20	2 15
29	2 80	2 70	2 60	2 65	2 85	3 00	2 90	2 70	2 60	2 40I	C	C
30	U2 75R	U2 90R	2 90	U2 90S	U2 90S	3 05	U2 95S	2 85	2 60	U2 20R	2 15	2 20
31	U2 50R	2 75	2 85	3 05	3 15	3 10	2 85	2 75	2 60	2 40	2 15	2 15
Mean	U2 75	2 80	2 80	2 85	2 95	3 00	2 90	2 75	2 50	2 30	2 20	2 15
Median	U2 75	2 80	2 85	2 90	3 00	3 10	2 90	2 80	2 55	2 30	2 20	2 15
Count	15	17	22	21	21	25	29	30	30	30	25	24

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic (M3000) F2
 Unit
 Month October 1958

TABLE 44—*contd.*
 Ionospheric Data
 75° 0' E Meridian Time

Latitude 10.2° N
 Longitude 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2 10	2 20	2 15	2 15	U2 15R	2 05	U1 95S	U1 90F	F	F	F	F	1
2 10	2 10	2 10	U2 05R	U2 05R	2 10	U2 05S	F	F	F	F	F	2
2 10	2 05	2 10	2 00	1 95	U2 05S	U2 05F	U1 95I	F	U2 30S	U2 40S	2 65	3
C	C	C	C	U2 10S	2 05	S	U1 95F	F	F	F	U2 50I	4
C	C	C	C	C	U2 05R	2 00	D1 90W	F	F	U2 50F	F	5
2 10	2 10	2 10	2 15	2 10	2 10	U2 05S	1 95	2 00	2 20	U2 55S	U2 75S	6
2 15	2 20	2 15	2 15	2 15	2 15	U2 00S	F	F	U2 20F	U2 40F	U2 45F	7
2 05	2 10	2 15	2 20	2 25	2 20	2 00	F	F	F	F	F	8
2 20	2 20	2 25	2 25	2 25	U2 15R	U2 05R	F	F	F	F	F	9
C	C	C	2 20	2 25	2 15	U2 05S	F	F	F	F	F	10
C	C	C	C	C	C	C	C	F	F	F	F	11
C	C	C	C	C	C	2 05	F	F	F	F	F	12
2 20	2 20	2 20	2 25	2 30	2 30H	2 10	F	F	U2 30F	F	F	13
2 05	2 05	2 10	2 15	2 20	2 30	2 15	2 00	F	F	F	U2 50I	14
2 05	2 05	2 00	2 10	2 10	2 10	U2 00S	F	F	F	F	F	15
C	2 05	2 00	2 05	1 95	1 90	2 00	D1 80W	F	F	FS	F	16
2 05	2 05	2 05	2 00	1 95	2 00	2 05	U1 90S	U1 90F	F	F	F	17
2 00	2 00	1 95	1 95	1 95	1 90	1 90	F	F	F	F	F	18
C	2 05	2 00	2 00	1 95	1 90	1 90	1 80	F	F	F	F	19
2 05	2 00	2 00	1 95	1 90	1 90	U1 80S	D1 85W	F	F	F	U2 50I	20
1 95	2 00	1 95	2 00	J1 95S	U2 00S	1 95	D1 80W	F	F	U2 30FS	F	21
U2 10R	2 15	2 15	2 20	2 10	2 00H	U1 95SH	U1 90WH	RS	2 00H	2 40	2 50	22
2 20	2 20	2 20	U2 15S	2 10	U2 05RH	U1 95SH	U2 00WH	RH	RH	U2 50R	U2 70S	23
2 20	2 05	2 00	U2 10S	2 20	2 10	J2 15R	U2 30R	U2 65S	2 65	2 70	2 90	24
2 15	2 20	2 20	2 15	U2 10R	U2 05S	J2 15S	F	F	F	F	F	25
2 20	2 10	2 15	2 20	2 20	U2 15R	S	F	F	F	F	F	26
2 15	2 10	2 10	2 10	2 10	2 05	11 90W	11 80W	F	U2 20F	F	U2 60F	27
2 15	2 10	2 10	2 15	2 15	11 95W	12 00W	12 00W	2 20	U2 40R	2 50	2 75	28
C	C	2 10	2 05	2 00	2 05	L1 95W	2 00	U2 15I	F	F	2 45	29
2 15	2 15	2 05	2 10	2 05	2 10	2 10	2 00I	2 10	2 30	2 40	2 50F	30
2 15	2 10	2 05	2 05	2 10	2 10	L2 00W	11 90W	2 10	F	U2 40S	F	31
2 10	2 10	2 10	2 10	2 10	2 05	U2 00	U1 95	2 15	U2 30	U2 45	U2 60	Mean
2 10	2 10	2 10	2 10	2 10	2 05	U2 00	U1 95	2 10	U2 30	U2 40	U2 50	Median
23	25	26	26	28	29	28	19	7	9	11	13	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic (M3000) F₂

TABLE 44—cont'd

Latitude 10 2° N

Unit

Ionospheric Data

Longitude 77 5° E

Month October 1958

75 0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2 80	2 70	2 80	2 95	2 85	2 75	2 70	2 10	U2 30R	2 20	2 15	2 10
2	F	F	3 05	3 05	F	F	3 00	2 80	2 50	U2 15R	2 20	2 10
3	F	F	F	F	F	2 95	3 00	2 80	2 50	2 10	2 15	U2 15R
4	U2 75s	U2 65s	U2 85s	U2 90s	3 05	3 25	2 95	2 70	2 40	C	C	C
5	U2 70r	2 70	U2 85s	U3 00r	3 30	3 00	3 10	2 90	2 50	C	C	C
6	2 90F	F	2 80	2 95	F	2 90	2 85	2 70	2 45	U2 05R	2 15	2 10
7	J2 75s	C	C	C	C	C	C	C	C	C	C	C
8	U2 65s	2 70	2 85	3 10	3 20	3 00	2 80	2 55	2 25	2 20	2 25	2 05
9	F	3 05	F	3 05	3 20	3 15	2 90	2 55	2 30	2 30	2 20	2 20
10	F	F	2 90	F	3 30	F	J2 95I	2 60	2 30	2 30	C	C
11	F	3 05	3 05	3 20	3 30	2 80	5 00	2 70	2 30	2 30	C	C
12	U3 00r	F	U2 90r	F	U3 25r	U3 10r	U2 90F	2 60	2 20	2 20	C	C
13	U2 85r	F	3 00	F	F	F	U3 00F	2 90I	2 45	2 15	2 10	2 15
14	F	F	U3 00r	3 00	3 25	2 55II	3 00	2 75	2 40	2 10	2 20	2 10
15	U3 00r	F	F	U3 05r	3 20	2 60H	3 00	2 60	2 20	2 20	2 20	2 10
16	FS	FS	FS	3 00	F	F	2 85	2 70	2 40	2 05	2 10	C
17	F	U2 50r	F	2 90	FS	F	U2 80s	2 70	2 35	2 15	2 15	2 10
18	FS	F	U2 60s	FS	F	U3 00I	U2 80s	2 65	2 40	2 10	2 05	2 00
19	F	F	F	FS	3 10	2 85	2 75	2 60	2 30	2 20	2 05	2 00
20	F	U2 40rII	2 60	F	F	2 85	2 80	2 70	2 55	U2 25R	2 10	2 05
21	F	F	F	F	F	U3 00r	U2 65r	2 40	2 20	2 15	2 15	2 05
22	U2 70r	U2 70r	F	U2 90s	U3 00s	2 95	2 80	2 70	2 50	2 10	2 15	2 00
23	2 55	2 55	2 60	2 60	U2 50s	2 30II	U2 60s	2 40	2 20	2 20	2 20	2 15
24	2 70	2 75	2 75	2 80	U2 90s	U3 00s	2 90	2 70	2 40	2 35	2 25	2 20
25	2 80	U2 80s	U2 60s	2 55	2 20	RH	U2 75s	U2 55s	2 40	2 30	2 20	2 20
26	F	F	3 00	F	F	3 00	U3 05s	2 70	2 40	2 35	2 25	U2 20R
27	2 80	F	2 95	F	2 75	2 85	2 70	2 60	2 45	2 35	2 25	2 20
28	FS	FS	2 55	2 50	2 65	2 70	2 50II	RH	2 35	2 30	2 20	2 20
29	2 70	2 60	2 65	2 80	2 95	3 00	2 80	2 65	2 50II	C	C	C
30	U2 80r	2 80I	2 95	U2 85s	2 05	3 10	2 95	2 75	2 10	U2 15R	2 15	2 15
31	2 60	2 80	3 00	3 15	3 15	2 95	2 80	2 85	2 50	2 20	2 10	2 15
Mean	U2 70	2 70	2 85	2 90	3 00	2 90	2 85	2 65	2 40	2 20	2 15	
Median	U2 75	2 70	2 85	2 95	3 10	2 95	2 85	2 70	2 40	2 20	2 15	
Count	17	15	22	20	20	24	30	29	30	27	24	

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic (M3000) F2

TABLE 44—*conold*

Latitude 10 2° N

Unit

Iospheric Data

Longitude 77 5° E

Month October 1958

75 ° E Mc in 1 m_c

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2 20	2 15	2 15	2 15	2 10	U2 05s	U1 95s	F	F	F	F	F	1
2 10	2 10	2 10	2 10	2 05	U2 05s	U1 95R	F	F	F	F	F	2
2 05	2 10	2 10	2 00	2 00R	U2 10S	U1 95I	U2 00L	U2 25S	2 30	U2 50s	2 65	3
C	C	C	C	2 10	U2 05R	U2 00s	F	F	F	U2 75s	F	4
C	C	C	C	U2 10R	2 05	U1 95S	F	F	F	F	F	5
2 10	2 15	2 15	2 10	2 10	U2 05R	1 90	U2 00I	2 10	U2 40s	U2 60s	J2 65s	6
2 15	2 15	2 15	U2 20R	2 15	2 05	1 95	F	F	FS	F	F	7
2 15	2 10	U2 20R	2 20	2 20	2 10	F	F	F	F	F	F	8
2 20	2 20	2 25	2 25	2 20	2 10	F	F	F	F	F	F	9
C	C	C	2 20	U2 30R	2 10	1 90F	F	F	F	F	F	10
C	C	C	C	C	C	C	F	F	F	F	U2 50F	11
C	C	C	C	C	2 05	U2 00R	F	F	F	F	F	12
2 25	2 20	2 20	2 20	2 30H	2 25	U2 00I	F	F	F	U2 70R	F	13
2 05	2 10	2 10	2 20	2 25	2 20	2 05	F	F	F	F	F	14
2 05	2 05	2 10	2 15	2 15	J2 10R	U2 05s	F	F	F	F	2 80	15
2 10	C	2 00	2 00	1 95	1 95	1 85	F	F	F	U2 30I	FS	16
2 10	2 00	2 00	2 00	1 95	2 00	1 95	1 95	F	F	F	FS	17
1 95	1 95	1 05	1 90	1 90	U1 90s	1 85	F	F	F	2 15	2 30	18
2 00	2 00	2 05	2 00	1 95	1 90	1 85	F	F	F	F	FS	19
2 00	2 00	1 95	1 95	1 90	U1 85s	D1 85W	F	F	F	F	F	20
1 95	2 00	1 95	1 95	U2 00s	U2 00s	D1 90W	F	F	F	F	F	21
2 15	2 15	2 15	2 15	U2 10HR	J2 00HR	U1 90HW	U1 85WH	RS	2 20	U2 50R	U2 65s	22
2 20	2 20	U2 20s	2 15	U2 10S	J2 00HR	W	U2 00RH	RH	U2 40R	RS	2 75	23
2 15	2 05	2 00	2 20	2 15	2 10	J2 25R	2 35	U2 80S	2 70	2 90	U2 75s	24
2 10	2 20	2 20	2 10	U2 10R	2 05	U2 05s	F	F	F	F	F	25
2 20	2 10	2 20	2 30	2 20	U2 10R	U1 95I	F	F	F	F	F	26
2 15	2 10	2 05	2 10	2 10	U2 00R	1 1 80W	1 1 85W	F	F	U2 25I	F	27
2 10	2 10	2 15	2 15	2 10	2 00	1 1 90W	2 10	2 30	2 40	2 60	2 80	28
C	C	2 10	2 05	2 05	2 10	1 95	F	F	F	U2 30I	F	29
2 20	2 10	2 10	2 05	2 05	2 15	2 05	1 2 00W	2 10R	2 30	2 50	2 55	30
2 15	2 05	2 05	2 10	2 10	2 05	E1 90W	F	2 15	F	F	F	31
2 10	2 10	2 10	2 10	2 10	2 05	1 95	2 00	2 30	2 40	U2 50	2 65	Mean
2 10	2 10	2 10	2 10	2 10	2 05	1 95	2 00	2 20	2 40	U2 50	2 65	Median
25	24	26	27	29	30	26	9	6	7	12	10	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic foF₂
Unit Mc
Month November 1958

TABLE 45
Ionospheric Data
75° E Mean Time

Latitude 10° 2' N
Longitude 77° 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U12 4F	F	10 3	F	F	5 1	7 8	11 6	13 7	13 8	C	12 3
2	C	C	F	8 1R	7 8	F	9 3	12 6	14 7	15 6	15 2	14 4
3	10 6	10 6	10 9	10 0	9 4	8 5	10 6	13 6	14 8	15 1	15 4	14 7
4	11 8	11 3	10 4	10 3	9 4	8 2	9 8	12 7	14 5	14 5	14 7	13 7
5	11 6	11 1	10 3	9 5	U9 7S	8 0	9 1	12 3	14 6	15 3	15 7	15 4
6	10 7	F	F	9 4	7 8	5 2	7 7	11 5	13 4	14 0	13 9	13 0
7	F	F	FS	U8 3S	6 9	5 7	U8 2F	U11 4R	13 3	13 6	13 7	13 6
8	FS	10 3	9 9	U9 0S	U7 2S	5 9	7 7	10 7	12 6	13 6	C	C
9	U8 9I	11 2	10 4	9 0	6 6	4 9	U7 4S	10 9	12 8	13 2	13 4	13 3
10	F	U9 9R	8 8	U8 3F	F	4 6	U7 3S	10 8	12 3	U12 6R	12 8	13 2
11	11 0	F	9 8	9 6	9 1	F	FS	11 6	12 7	14 4	14 8	U14 3R
12	U11 4R	11 0	10 2	8 6	7 8	6 6	8 0	11 3	13 4	14 0	14 2	14 0
13	U11 6S	F	U11 6S	11 0	U10 0S	U9 2S	10 3	12 1	U13 0R	12 6	12 8	13 1
14	F	F	F	U9 4I	U7 6S	5 3	7 6	11 0	U12 0R	11 5	11 4	11 9
15	F	U10 8R	F	8 7	5 8	4 1	U7 2S	10 6	U12 0S	12 6	12 3	12 0
16	F	F	F	F	J5 5R	3 8R	U7 4S	10 8	12 9	13 8	13 6	13 0
17	J13 2R	U12 0S	U8 1S	5 6	4 8	3 4	6 9	10 6	12 6	13 0	12 6	11 8
18	U10 7R	F	F	8 5	7 6	6 5	7 8	11 4	13 6	14 6	14 6	13 6
19	F	F	U9 4F	F	F	U8 6F	10 2	11 6H	12 2	13 2	13 6	14 0
20	F	F	U8 8F	8 5F	F	5 7R	F	10 7	12 2	12 4	12 7	12 4
21	F	F	F	6 8	F	F	F	10 7	12 1	12 8	12 8	12 8
22	F	F	8 6	U6 3R	4 0	3 0	6 8	10 5	12 7	13 6	14 1	14 0
23	F	F	F	7 4	F	F	F	10 9	12 8	12 7	12 6	12 4
24	F	9 3FH	J8 4R	F	F	U7 3F	8 3F	10 8	12 3	13 2	13 4	13 6
25	11 4	11 4	10 1	U9 2S	9 6	8 1	8 9	11 9	13 7	13 7	14 3	14 8
26	11 0	F	U11 4R	11 0	F	11 0	10 8	12 7	13 7	14 1	14 2	14 0
27	F	F	F	F	8 5	6 6	F	11 2	12 3	12 8	13 0	13 3
28	F	F	F	10 4	U9 7S	8 8	8 5	11 6	13 1	14 0	14 6	14 1
29	12 3	12 7	11 8	10 8	9 8	8 0	8 4	U11 6S	13 6	13 7	13 2	12 8
30	U11 4C	U11 5S	10 8	10 1	8 7	6 2	U7 4S	10 8	12 6	12 8	12 4	12 0
Mean	11 3	11 0	10 0	9 0	7 9	6 5	8 4	11 4	13 1	13 6	13 6	13 4
Median	11 4	11 1	10 2	9 0	7 8	6 4	8 0	11 4	12 8	13 6	13 6	13 3
Count	15	13	19	25	22	26	25	30	30	30	28	29

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic : fo F2
 Unit : Mc
 Month : November 1958

TABLE 45—contd.
 Ionospheric Data
 75 ° E Mean Time

Latitude : 10 2° N
 Longitude : 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12 1	12 5	12 3	11 7	11 2	10 8	U10 1S	9 3	F	F	F	U9 8F	1
12 9	12 8	12 7	12 6	U12 2R	12 4	11 4	U9 8S	U10 6F	F	F	U10 4F	2
14 1	13 1	12 1	11 6	10 9	10 4	9 6	U9 0F	9 6	10 8	11 1	U11 6S	3
13 2	12 8	12 3	12 1	11 6	11 4	10 4	9 2	U9 5S	10 0	U10 4F	11 0	4
15 1	C	C	14 5	13 7	13 4	11 4	F	F	F	F	F	5
12 7	12 7	12 5	12 2	U11 7S	11 6	U10 6W	F	F	F	F	F	6
12 9	13 3	13 4	13 3	12 7	12 4	U11 2S	F	U8 6F	F	FS	F	7
C	C	C	12 4	U11 8S	C	C	F	F	F	F	F	8
12 9	U12 6R	12 4	U11 9S	11 6	11 3	10 6	8 7	U8 0F	F	F	F	9
13 6	14 3	14 7	14 3	13 9	13 7	12 5	U8 7F	F	F	U9 3S	F	10
15 5	15 4	14 8	14 8	14 7	14 0	12 7	F	F	F	F	12 3	11
14 2	14 3	14 2	13 8	13 2	J12 1R	U11 8S	F	F	F	F	U11 5F	12
13 6	14 0	U14 2R	U13 9R	U13 8R	U13 8R	R	U12 2F	F	F	F	F	13
12 0	C	J14 2R	14 8	15 0	U14 5S	J12 2R	F	F	F	F	F	14
12 0	12 9	U13 2R	U13 2RS	J13 0R	12 4	U11 5R	F	F	F	F	F	15
13 3	13 8	13 8	13 4	13 4	U12 8R	U11 6S	10 6	U10 6F	U11 5F	U12 2HR	J13 0R	16
11 9	12 4	12 6	U12 3R	11 6	11 3	10 4	F	F	U8 8F	F	U10 8R	17
12 6	12 0	11 6	U11 5S	U11 6S	J12 0R	U12 0S	U10 6F	FS	F	F	F	18
14 4	14 7	14 7	14 4	14 0	R	11 4H	8 8	F	F	F	J7 6F	19
11 8	11 8	12 0	12 0	U11 8S	11 4	U10 2S	8 4	F	F	F	F	20
12 8	12 8	12 7	12 6	12 2	11 6	10 4	8 5	F	F	F	8 8F	21
13 8	13 8	13 4	12 7	11 6	10 4	8 8	F	F	F	U6 7F	F	22
12 0	11 8	11 7	12 2	U11 8S	U11 8S	10 9	10 4	8 5F	J7 8F	U7 7F	F	23
13 2	12 9	12 3	12 4	11 6	10 7	9 6	8 7	8 6	U11 2R	J12 2S	U11 7S	24
14 8	14 6	14 1	U13 4R	U12 6R	11 0	10 7	10 4	9 1	F	F	U9 4S	25
13 6	13 5	13 2	13 2	12 8	13 0	U13 1R	R	RS	10 8	F	F	26
13 3	13 6	13 5	13 4	12 3	U11 8S	U11 6S	R	F	F	F	F	27
12 8	11 9	11 4	11 2	10 8	10 7	10 8	10 6	11 0	11 6	11 4	11 4	28
12 7	12 0	11 7	U11 6S	12 0	U11 6S	11 1	10 8	10 0	U9 5S	U9 6S	10 8	29
12 5	12 6	12 8	12 6	U11 8S	U11 5S	10 2	9 2	F	F	F	U8 0F	30
13 2	13 1	13 0	12 9	12 4	12 0	11 0	9 7	9 5	U10 2	U10 1	U10 5	Mean
13 0	12 9	12 8	12 6	12 1	11 7	11 0	9 2	9 5	U10 8	U10 4	U10 8	Median
28	27	28	30	30	28	28	18	11	9	9	15	Count

Sweep 1 Mc to 25 Mc in 27 Seconds.

Characteristic : fo F2
 Unit Mc
 Month · November 1958

TABLE 45—*contd.*
 Ionospheric Data
 75° E Mean Time

Latitude : 10.2° N
 Longitude 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	F	U9 4F	F	7 1F	5 8H	9 9	13 0	14 1	13 4	12 6	12 2
2	C	9 6	8 8F	F	F	7 5F	10 8	13 8	15 2	15 5	14 8	13 6
3	U10 5S	11 0	10 3	9 9	9 1	8 8	12 3	14 1	15 1	15 2	15 4	14 3
4	11 4	10 8	10 1	10 2	8 8	8 2	11 4	13 6	14 6	14 8	14 5	13 6
5	11 7	10 6	10 1	9 8	8 8	U7 3S	10 8	13 7	C	15 5	15 6	15 1
6	U10 4F	F	F	9 0	6 3	5 7H	9 7	12 6	13 6	13 8	13 6	12 7
7	F	F	U8 5F	7 5	6 3	U5 9S	U9 9F	12 6	13 6	13 8	13 6	13 3
8	U9 4F	10 4	U9 3S	8 3	6 4	6 1	U9 6S	J11 9S	13 2	13 7	C	C
9	U10 3F	11 4	U9 8S	7 9	5 9	5 5	U9 3S	12 1	13 0	13 3	13 5	13 2
10	F	U9 7F	F	F	5 8	5 3	9 2	11 7	12 7	12 7	13 2	13 3
11	J11 3S	10 4	F	9 3	F	U8 2F	11 0	12 3	13 8	14 8	U14 2R	14 8
12	U11 6S	10 9	U9 3S	8 4	7 5	6 1	9 7	12 5	13 8	14 3	14 2	13 9
13	F	J12 1R	11 2	U10 4S	U9 8S	9 0	11 4	12 8	12 8	J12 6R	12 8	13 4
14	F	F	F	F	6 5	U5 3HS	U9 7S	U11 9S	11 8	11 2	11 8	C
15	F	U10 4SF	U9 4S	6 4	4 7	5 0H	U9 2S	11 4	12 4	12 4	12 0	12 0
16	F	U10 7S	8 4	U7 2SF	U5 0HR	4 9H	9 4	J12 2R	C	13 8	13 2	J13 1R
17	12 7	10 4	6 4	5 0	4 0	4 6H	U9 2S	11 6	13 0	13 0	12 2	11 9
18	U10 0F	F	8 4	8 2	7 3	6 0	U9 8S	12 8	13 8	14 6	U14 0R	U12 8R
19	F	F	9 1	8 4	F	U9 6F	11 0	11 5	12 6	13 4	13 6	14 2
20	8 1F	F	U8 5F	F	U6 3F	F	U9 3F	11 5	11 8	12 6	12 6	12 3
21	F	F	U7 8F	U6 2F	F	F	9 1	11 7	12 7	12 8	12 8	12 8
22	10 5F	U9 3F	7 6	5 1	3 4	4 4H	9 1	11 8	13 5	14 0	14 0	14 0
23	F	F	8 0	U6 4F	F	F	9 2	12 1	12 8	12 6	12 4	12 0
24	FH	U9 6FH	F	F	7 4F	F	U9 9F	11 4	12 6	13 4	13 4	13 4
25	11 3	11 0	9 7	9 4	U9 4S	7 6	10 7	13 0	13 7	14 4	14 6	14 8
26	F	11 0F	11 4	F	F	10 0	12 0	13 4	14 0	14 1	14 3	13 8
27	F	F	F	U9 3F	7 8	F	F	11 6	12 5	13 0	13 0	13 4
28	F	F	F	10 4	U9 2S	7 8	U10 2S	12 3	14 0	14 4	14 7	14 0
29	12 6	12 1	11 0	10 4	9 1	6 8	U10 2S	12 7	13 7	13 7	12 9	12 8
30	11 6	11 1	10 4	9 9	7 6	5 7	U9 3S	U11 9S	12 7	12 8	12 4	12 3
Mean	10 9	10 7	9 3	8 4	7 1	6 7	10 1	12 4	13 3	13 7	13 5	13 3
Median	11 3	10 7	9 3	8 4	7 2	6 1	9 9	12 2	13 4	13 7	13 5	13 4
Count	15	19	23	23	24	25	29	30	28	30	29	28

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic - fo F2
 Unit Mc
 Month November 1958

TABLE 45--concl'd
 Ionospheric Data
 75 ° E Mean Time

Latitude 10.2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12 2	12 4	12 1	11 5	10 8	U10 4S	U9 6S	U9 0F	F	F	F	C	1
12 9	12 7	12 6	12 6	12 5	U11 8S	10 5	9 9	U9 4S	10 4F	U10 5F	10 7	2
13 6	12 6	11 8	11 3	10 8	10 4	9 5	9 1	U9 8S	10 8	U11 7S	11 7	3
12 8	12 5	12 0	12 0	U11 6S	11 0	U9 6S	U9 1F	10 0	U10 4F	10 4	11 1	4
C	C	C	13 8	13 3	12 7	U9 9W	F	F	F	F	F	5
12 7	12 6	12 3	12 4	U11 7S	11 4	U9 5W	F	F	F	F	F	6
13 3	13 3	13 4	13 0	12 7	U11 8S	U10 1S	U8 8F	F	FS	FS	F	7
C	C	C	12 0	U11 8S	C	9 6	F	F	F	F	F	8
12 7	12 7	12 2	U11 7S	U11 5S	11 0	9 6	U8 3F	U7 4F	F	F	F	9
13 8	14 9	14 6	14 3	13 8	R	U10 6F	F	F	F	U10 3F	F	10
15 3	15 2	14 8	14 6	14 5	13 6	U11 5W	F	F	F	F	F	11
14 5	14 4	13 9	13 3	U12 7R	12 0	J11 6R	F	F	F	F	U12 2F	12
13 7	14 2	U14 2R	14 0	U13 8R	R	R	F	F	F	F	F	13
13 1	14 0	14 6	15 0	U14 6S	U13 8S	11 0	F	F	F	F	F	14
12 6	12 8	U13 2R	J13 2R	12 8	J12 1R	F	F	F	F	F	F	15
13 6	13 8	13 8	U13 4R	13 0	12 4	10 9	U10 6F	F	12 7	U13 0HR	13 5	16
12 2	12 4	12 4	U11 9S	11 6	S	U9 2S	F	F	F	U10 8F	U10 8R	17
12 4	11 7	11 5	11 6	U11 6S	J12 2R	U11 6S	10 3	F	F	F	F	18
14 7	14 8	14 5	U13 8R	13 7	11 5	9 4	U8 2F	F	F	J7 4F	F	19
14 9	11 9	12 3	U11 9S	11 4	10 9	9 4	U8 0F	F	F	F	U9 5F	20
12 8	12 6	12 8	12 4	11 6	11 0	9 4	F	F	F	F	8 6	21
13 8	13 6	12 8	J12 0R	10 8	9 6	7 8	F	F	F	F	F	22
14 9	11 9	12 0	J11 8S	J11 8S	11 4	10 7	9 4	F	U8 0F	F	F	23
13 1	12 4	11 9	U11 7S	10 9	U10 5S	9 2	8 2FH	10 5H	J12 2S	12 2	11 6	24
14 8	14 6	13 8	12 8	11 8	10 8	10 2	9 6	U9 0F	F	8 8	U10 6F	25
13 6	13 4	13 3	13 0	13 0	U13 1R	U13 0R	U12 7R	10 8	F	F	F	26
13 6	13 5	13 5	U12 6R	U12 0S	U11 6S	11 4	F	F	F	F	F	27
12 6	11 6	11 4	10 9	10 7	10 3	10 6	10 8	11 4	11 6	11 4	11 6	28
12 5	11 8	11 6	12 0	12 1	U11 4S	11 0	10 6	U9 7S	U9 6S	U10 0S	11 1	29
12 6	12 7	12 8	U12 3R	U11 8S	10 8	U9 5S	F	F	F	F	F	30
13 2	13 1	12 9	12 6	12 2	11 5	10 2	9 5	U9 8	U10 7	U10 6	11 1	Mean
13 0	12 7	12 8	12 4	11 8	11 4	10 0	9 2	U9 8	U10 6	U10 5	11 1	Median
28	28	28	30	30	26	28	16	9	8	11	12	Count

Sweep 1Mc to 25 Mc in 27 seconds.

Characteristic : fo₂F₁
 Unit · Mc
 Month · November 1958

TABLE 46
 Ionospheric Data
 75.0° E Mean Time

Latitude : 10 2° N
 Longitude : 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	C	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								LH	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fo F₁

TABLE 46—*contd.*

Latitude : 10 2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5 °E

Month : November 1958

75.0° E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
L	C	C	L	L								5
L	L	L	L	L								6
L	L	L	L	L								7
C	C	C	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	LH								11
L	L	L	L	L								12
L	L	L	L	L								13
C	C	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	LH	L								25
L	L	L	L	L								26
LH	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristics of F₁
 Unit : Mc
 Month November 1958

TABLE 46—contd.
 Ionospheric Data
 75.0° E Mean Time

Latitude 10.2° N
 Longitude 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4							L	L	L	L	L	L
5							L	L	C	L	L	L
6							L	L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9							L	L	L	L	L	L
10							L	L	L	L	L	L
11							L	L	L	L	L	L
12							L	L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	C	LH	L	L
17								L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20								L	L	L	L	L
21							L	L	L	L	L	L
22							L	L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic fo F1
 Unit - Mc
 Month November 1958

TABLE 46--*concl'd.*
 Ionospheric Data
 75.0° E Mean Time

Latitude: 10.2° N
 Longitude: 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2120	2230	2330	Date
L	L	L	L									1
L	L	L	L									2
L	L	L	L									3
L	L	L	L									4
C	C	C	L									5
L	L	L	L									6
L	L	L	L	L								7
C	C	C	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	LH	L								11
L	L	L	L	L								12
L	L	L	L	L								13
LH	LH	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L ₁								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	LH	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic : fo E
 Unit : Mc.
 Month : November 1958

TABLE 47
 Ionospheric Data
 75°0' E Mean Time

Latitude : 10°2' N
 Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3 1	B	A	C	A
2								3 0	B	A	A	A
3								2 9	3 5	A	U4 OR	A
4								A	A	A	A	A
5								A	A	A	A	A
6								A	A	A	A	A
7								A	A	A	A	A
8								A	A	A	C	C
9								U2 8R	A	A	A	A
10								A	A	A	A	A
11								A	3 4	A	A	A
12								A	A	A	A	A
13								A	A	A	A	A
14								A	A	A	A	A
15								A	A	A	A	A
16								2 8	A	A	A	A
17								A	A	A	A	A
18								2 8	A	A	A	A
19								2 7	A	A	A	A
20								U2 7A	A	A	A	A
21								A	A	A	A	A
22								2 8	A	3 7	4 0	4 0
23								2 9	A	A	A	A
24								A	A	A	A	A
25								3 0	A	A	A	A
26								U3 0A	A	A	A	U4 2A
27								A	A	A	A	A
28								2 9	U3 5A	A	B	A
29								2 9	A	A	A	A
30								U3 OR	A	U3 9A	A	A
Mean								2 9				
Median								2 9				
Count								15	3	2	2	2

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic fo E
 Unit Mc
 Month November 1958

TABLE 47—contd.
 Ionospheric Data
 75°0' E Mean Time

Latitude . 10 2° N
 Longitude . 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A								1
A	u3 9R	A	A	A								2
A	A	B	A	A								3
A	A	A	A	A								4
A	C	C	A	3 0								5
A	A	A	A	u3 0A								6
A	A	A	A	A								7
C	C	C	A	A	C							8
A	A	A	A	A	A							9
A	3 9	u4 0A	A	A								10
A	A	A	A	A								11
A	A	A	A	A								12
A	A	A	A	A								13
C	C	A	A	u2 8RH	A							14
A	A	u3 6R	A	A								15
A	A	A	A	A								16
A	A	A	A	A								17
A	A	A	A	A								18
A	A	A	A	2 8	A							19
A	A	A	A	A								20
A	A	A	A	3 0								21
4 2	3 9	A	A	A	F							22
A	A	A	A	A								23
A	A	A	A	A								24
A	A	u4 0A	A	A								25
u4 0A	A	A	A	A								26
B	A	A	A	A								27
A	A	A	A	A								28
A	A	A	A	A								29
A	A	A	A	A								30
				2 9								Mean
				3 0								Median
2	3	3		5								Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic · fo E

TABLE 47—*contd*

Latitude 10 2° N

Unit Mc

Ionospheric Data

Longitude 77 5° E

Month : November 1958

75°0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2 6H	A	A	A	A	A
2							2 6	U3 0R	B	A	A	A
3							2 6II	3 2	A	3 9	A	A
4								U3 2A	A	A	A	A
5							2 6	A	C	A	A	A
6							A	A	A	A	A	A
7							2 6	A	B	A	A	A
8							A	A	A	A	C	A
9							R	A	A	A	A	A
10							U2 5R	A	A	A	A	A
11							A	U3 2R	3 4	A	A	A
12							A	A	A	A	A	A
13							A	A	A	A	A	A
14							A	A	A	A	A	C
15							A	A	A	A	A	A
16							U2 4R	A	C	A	A	A
17							A	A	A	A	A	A
18							2 4II	A	A	A	A	A
19							2 4	A	A	A	A	A
20							2 5	A	A	A	A	A
21							2 3	A	A	A	A	A
22							2 3	A	3 4	3 8	4 1	4 1
23							2 4	A	A	A	A	A
24							A	A	A	A	A	A
25							2 5	U3 2R	A	A	A	A
26							U2 5R	A	U3 7A	A	A	A
27							A	A	A	A	A	A
28							A	A	A	A	A	A
29							2 5	A	A	A	A	A
30							2 5	U3 3A	A	A	A	A
Mean	.						2 5	U3 2				
Median	.						2 5	U3 2				
Count	.						17	6	3	2	1	1

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo E
 Unit Mc
 Month November 1958

TABLE 47—*contd.*
 Ionospheric Data
 75°0' E Mean Time

Latitude . 10°2' N
 Longitude . 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
B	A	A	A	A								1
A	A	A	A	A								2
B	A	A	A	A								3
A	A	A	A	A								4
C	C	C	B	2'7								5
A	A	A	A	A								6
A	A	A	A	A								7
C	C	C	A	A								8
A	A	A	A	A								9
U3 9R	4 0	A	A	A								10
A	A	A	A	A								11
A	A	A	A	A								12
A	A	A	A	A								13
A	A	A	3 2H	F								14
A	U3 8R	A	A	A								15
A	A	A	A	A								16
A	A	A	A	A								17
A	A	A	A	A								18
A	A	A	U3 1A	A								19
A	A	A	A	F								20
A	A	A	A	2 7								21
4 0	A	A	A	A								22
4 0	A	A	A	2 8								23
A	A	A	A	F								24
B	U4 0A	A	A	A								25
A	A	A	A									26
A	A	A	A	A								27
A	B	A	A	A								28
A	A	A	A	U2 7F								29
A	A	A	A	A								30
												Mean
												Median
3	3		2	4								Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic . fo Es
 Unit . Mc
 Month . November 1958

TABLE 48
 Ionospheric Data
 75°0' E Mean Time

Latitude 10 2° N
 Longitude . 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								8 0	9 7	10 4	G	11 4
2	G	G						G	8 2	9 6	11 0	11 2
3								G	7 8	11 0	G	11 6
4								6 6	9 0	10 8	11 0	11 8
5								7 9	8 8	9 6	10 8	10 4
6								8 4	9 6	11 0	11 4	11 4
7								7 8	8 9	9 8	10 7	10 8
8								8 6	10 3	10 7	G	C
9								8 6	10 1	10 8	11 1	10 8
10								8 4	10 6	10 9	11 8	10 8
11					3 7			9 7	G	9 6	11 1	8 5
12								8 4	9 6	10 4	11 2	11 2
13								8 6	9 0	10 4	11 0	10 0
14								8 6	10 4	10 6	11 0	11 0
15	4 6	4 6						8 2	10 6s	10 2	11 6	11 8
16								G	8 8	10 1	11 0	11 0
17								7 0	9 0	9 6	10 8	10 0
18								4 0	8 8	8 6	11 0	11 0
19	5 6	7 0						6 8	8 8	9 8	9 4	12 6
20								6 6	8 4	9 8	10 2	10 8
21								6 8	8 4	8 4	9 0	8 8
22								G	8 6	8 6	9 0	7 4
23								6 8	8 8	9 8	10 8	10 2
24				2 3				8 3	9 4	9 8	10 8	10 8
25							3 6	G	7 6	8 0	8 6	11 6
26								8 2	8 8	9 2	10 4	9 0
27		4 6	5 6					7 0	9 0	10 4	9 8	8 4
28		3 6						6 0	8 0	8 6	G	11 0
29								G	9 0	10 6	11 6	11 0
30		4 2						G	9 0	10 8	11 4	11 6
Mean		4 8						7 6	9 0	9 9	10 7	10 6
Median		4 6						7 0	9 0	10 0	11 0	11 0
Count	2	5	1	1	1		1	30	30	30	28	29

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo Es
 Unit Mc
 Month November 1958

TABLE 48—contd.
 Ionospheric Data
 75°0' E Mean Time

Latitude ; 10 2° N
 Longitude ; 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11 2	11 2	11 2	11 4	8 8								1
11 6	10 5	10 8	9 8	8 4				2 2				2
11 2	10 8	10 6	11 0	9 4	6 8						8 6	3
11 4	11 6	11 0	10 8	8 0					4 4			4
11 2	C	C	8 6	7 8								5
11 7	11 2	10 8	10 8	8 4								6
10 6	10 3	11 2	10 6	8 3					2 1			7
C	C	C	10 3	8 6	C	C						8
11 6	10 6	10 9	10 6	8 8	6 9							9
8 7	G	9 6	11 0	8 4								10
8 1	9 0	8 6	8 0	8 1								11
10 2	10 3	9 1	8 8	8 3						4 1		12
8 8	9 0	9 8	8 6	6 8								13
C	C	8 0	6 4	G	3 8							14
11 0	8 6	G	8 5	8 0								15
10 0	8 8	7 0	8 0	8 0					8 0			16
11 2	11 0	11 0	10 3	8 2	7 0						6 8	17
11 2	11 0	10 4	10 0	8 0	S						3 2	18
9 8	8 2	7 8	9 0	6 8	G							19
11 0	10 8	9 4	9 2	7 3								20
9 4	9 8	9 4	8 5	7 4								21
6 8	10 2	9 7	9 4	8 4	3 8							22
10 6	9 8	9 0	9 3	7 8								23
10 8	10 4	9 4	9 4	7 8								24
7 8	7 2	8 4	11 0	8 0								25
10 0	10 2	10 4	9 6	8 6								26
9 2	11 0	11 0	11 0	8 0								27
11 6	11 2	11 0	10 6	8 4	8 0	3 8						28
11 6	11 0	11 0	10 6	8 0						3 2	5 6	29
11 4	11 0	11 0	10 2	8 2								30
10 3	10 2	9 9	9 7	8 1	6 0			.				Mean
10 9	10 4	10 1	9 9	8 0	6 8							Median
28	27	28	30	30	7	1		1	3	2	4	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic · fo Es
Unit Mc
Month November 1958

TABLE 48—*contd.*
Ionospheric Data
75 ° E Mean Time

Latitude 10 2° N
Longitude 77° 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							G	10 4	10 0	11 6	11 2	11 0
2	C						G	G	9 0	10 4	11 0	10 6
3							G	G	10 8	G	11 0	11 8
4								8 0	9 2	11 8	11 0	11 6
5							G	8 6	C	10 6	10 8	10 6
6							6 6	9 2	10 6	11 2	12 0	11 7
7							G	8 2	10 2	10 6	11 2	10 5
8							6 9	9 1	10 1	10 9	C	C
9							7 8	9 5	9 8	10 9	11 3	11 3
10							7 2	9 1	10 7	11 9	11 4	9 3
11					2 3		7 0	G	G	11 2	11 3	8 2
12							7 2	9 6	9 8	11 0	10 9	11 0
13							6 6	10 0s	10 0	11 0	10 6	10 0
14							8 2	10 2	10 2	11 0	11 0	C
15	3 0						6 2	9 0	9 2	11 4	11 4	11 8
16							G	8 6	C	10 6	11 2	10 0
17							6 6	9 0	9 0	10 4	10 6	10 0
18							G	7 0	9 0	10 0	11 0	11 0
19	3 2	3 8	7 8				5 8	6 8	9 2	9 4	10 0	13 0
20							10 6s	8 2	9 2	10 6	11 0	10 8
21							6 2	8 5	8 5	9 8	9 2	9 8
22							G	7 0	8 4	8 8	8 4	G
23							G	8 6	9 0	10 8	10 8	10 4
24					3 2		6 6	8 8	10 2	11 2	9 4	10 4
25					6 0		G	G	8 4	7 0	10 0	12 0
26							G	8 6	8 8	9 4	10 2	9 4
27	3 4	7 0	6 0				G	8 8	9 6	9 0	9 0	12 0
28		3 2	3 2					7 0	9 6	11 0	10 6	11 0
29							G	8 0	10 4	11 0	10 8	11 2
30	4 2						G	8 8	10 0	11 4	11 6	11 2
Mean	.						6 8	8 6	9 6	10 5	10 7	10 8
Median	.							8 6	9 6	10 8	11 0	10 9
Count	.	4	3	3	2	1	28	30	28	30	29	28

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic fo Es
Unit Mc
Month November 1958

TABLE 48—concl'd
Ionospheric Data
75° 0' E Mean Time

Latitude 10 2° N
Longitude . 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
10 4	12'0	10'6	9 2	8 6							C	1
10 8	11 2	10 4	8 7	7 8				3 7				2
11 6	11 1	10 8	10 0	8 6						4 2		3
11 4	11 8	11 4	9 0	7 8				2 8				4
C	C	C	G	8 0								5
11 4	10 6	10 6	9 2	8 0								6
10 4	10 4	10 8	8 6	7 6								7
C	C	C	8 8	8 1	C							8
11 4	10 8	11 0	9 1	7 9								9
G	8 2	10 6	9 1	8 0								10
8 9	9'6	9 8	7 6	7 8					4 2			11
10 6	9 8	8 3	8 5	8 0					6'4			12
10 0	10 2	9 0	7 4	U7 OS								13
10 2	9 0	6 6	G	6'0						2'0		14
10'5	G	8 0	7 4	U8 OS					2 0			15
11 0	9'2	9 0	7'8	7'4					3 6			16
10 6	10 6	10 8	8 6	8 0								17
11 0	10 6	9 4	8 4	7 4							5 6	18
8 8	7 6	9 5	7 9	6 8							4'2	19
11 0	10'2	10 2	7 6	7 4						2 6		20
9 6	9 8	9 4	8 2	6 8								21
8 6	9 8	8'8	8'6	6 8								22
10'6	10 2	9 2	8 3	6 6								23
11 4	10'2	9'6	8'2	7 0								24
G	7 6	10 2	8 6	8 2								25
9 0	10'6	10 0	9 4	6 8								26
9 4	11 0	10 6	9 0	7 0								27
11 2	11 0	11 0	9 2	7 0	4 0							28
11'2	11'6	10 2	9 0	7 0						4 4		29
12 0	11 0	10 6	8 6	8 0							2 0	30
10 5	10 2	9 9	8 6	7 5								Mean
10'6	10 3	10 2	8 6	7 7	.							Median
28	28	28	30	30	1	.		2	4	4	3	Count

Sweep 1 Mc to 25 Mc in 27 seconds¹

Characteristic · fbEs
 Unit Mc
 Month November 1958

TABLE 49
 Ionospheric Data
 75°0' E Mean Time

Latitude 10°2' N
 Longitude : 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3 1	4 0	4 1	C	4 5
2	C	C							4 1	4 3	4 4	4 5
3									3 6	4 2		4 4
4								3 0	3 6	4 0	4 2	4 3
5								3 0	3 6	4 1	4 2	4 5
6								3 0	3 5	4 1	4 2	4 3
7								3 0	3 6	4 2	4 2	4 3
8								2 9	3 6	3 9	C	C
9								3 0	3 5	4 0	4 1	4 5
10								2 9	3 6	4 0	4 3	4 4
11					1 8			3 0		3 9	4 1	4 3
12								2 9	3 6	4 0	4 2	4 4
13								2 8	3 4	4 0	4 0	4 2
14								3 0	3 6	4 0	4 2	4 4
15	1 9	1 9						2 9	3 4	4 0	4 2	4 2
16									3 6	4 0	4 4	4 4
17								3 0	3 4	3 8	4 0	4 2
18								3 0	3 5	3 8	4 0	4 2
19			2 7					2 9	3 5	4 0	4 1	4 3
20								3 0	3 5	4 0	4 1	4 3
21								3 0	3 5	3 8	4 0	4 2
22									3 4	3 8	4 2	4 5
23								3 0	3 5	4 0	4 2	4 4
24					2 0			3 0	3 6	4 0	4 2	4 4
25									3 6	4 0	4 2	5 0
26								3 0	3 6	4 2	4 2	4 4
27		2 4	2 4					3 0	3 6	4 0	4 4	4 7
28		2 2		2 4				3 0	3 5	4 0	.	4 4
29									3 5	3 8	4 2	4 4
30		2 4							3 8	4 0	4 4	4 6
Mean	.		2 3					3 0	3 6	4 0	4 2	4 4
Median	.		2 4					3 0	3 6	4 0	4 2	4 4
Count	.	1	5	1	1	1		23	29	30	26	29

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic : fbEs
 Unit : Mc.
 Month November 1958

TABLE 49
 Ionospheric Data
 75°0' E Mean Time

Latitude : 10°2' N
 Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4 5	4 4	4 1	3 6	3 4								1
4 4	4 4	4 1	3 7	3 2								2
4 4	4 3	4 2	3 7	3 2	2 4							3
4 4	4 3	4 0	3 5	3 2					1 9		2 8	4
4 5	C	C	3 7	3 1								5
4 4	4 3	4 0	3 5	3 2								6
4 4	4 3	4 0	3 6	3 1					2 1			7
C	C	C	3 6	3 3	C	C						8
4 3	4 2	4 0	3 6	3 1	2 4							9
4 3	.	4 1	3 7	3 2								10
4 3	4 2	3 9	3 6	3 1								11
4 3	4 1	3 8	3 4	3 1						2 2		12
4 2	4 2	4 0	3 6	3 2								13
C	C	4 0	3 5	3 0	2 4							14
4 2	4 0		3 5	3 0								15
4 2	4 2	4 0	3 5	3 2					3 0			16
4 2	4 1	4 0	3 6	3 0	2 4						2 3	17
4 3	4 2	4 0	3 6	3 2	2 3						2 4	18
4 4	4 1	3 8	3 4	3 0								19
4 2	4 2	3 9	3 6	3 0								20
4 3	4 1	3 9	3 6	3 0								21
	4 2	4 0	3 6	3 1								22
4 3	4 4	4 0	3 6	3 0								23
4 5	4 4	4 0	3 6	3 1								24
4 6	4 5	4 1	3 8	3 2								25
4 4	4 3	4 0	3 6	3 4								26
4 6	4 4	4 0	3 6	3 3								27
4 5	4 2	4 2	3 6	3 2	3 2	2 4						28
4 4	4 3	4 2	3 8	3 2							2 4	29
4 4	4 4	4 3	3 8	3 2								30
4 4	4 2	4 0	3 6	3 2	2 5	.	.	.	..	.	.	Mean
4 4	4 2	4 0	3 6	3 2	2 4	.	..	..	.			Median
27	26	27	30	29	6	1	.	.	3	1	4	Count

Characteristic . fbEs
 Unit . Mc.
 Month November 1958

TABLE 49—Contd
 Ionospheric Data
 75°0' E Mean Time

Latitude · 10°2' N
 Longitude · 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								3 4	4 0	4 2	4 5	4 5
2	G							.	4 0	4 3	4 5	4 5
3									4 0	.	4 4	4 4
4								3 3	3 9	4 2	4 3	4 4
5								3 3	C	4 0	4 4	4 4
6							2 6	3 3	3 8	4 1	4 2	4 4
7								3 3	4 2	4 0	4 3	4 4
8							2 5	3 2	3 7	4 0	C	C
9							2 6	3 3	3 9	4 0	4 3	4 6
10							2 6	3 4	3 8	4 2	4 4	4 4
11					1 9		2 5			4 1	4 2	4 4
12							2 6	3 3	3 8	4 1	4 3	4 4
13							2 5	3 2	3 6	4 0	4 0	4 2
14							2 6	3 4	4 0	4 1	4 2	C
15	1 7						2 5	3 2	3 6	4 0	4 2	4 2
16								3 2	C	4 0	4 4	4 4
17							2 5	3 2	3 6	4 0	4 2	4 2
18								3 2	3 6	4 0	4 0	4 2
19								3 2	3 7	4 0	4 3	4 4
20							2 5	3 2	3 7	4 0	4 3	4 3
21								3 1	3 7	4 0	4 2	4 2
22								3 1	3 8	3 9	4 2	
23								3 2	3 8	4 2	4 3	4 4
24					2 4		2 5	3 2	3 9	4 0	4 4	4 4
25							.	..	3 8	4 2	4 6	6 6
26								3 2	3 9	4 0	4 3	4 2
27		3 0						3 3	3 8	4 0	4 3	5 2
28		2 4						3 2	3 8	4 1	4 4	4 6
29								3 3	3 7	4 0	4 3	4 4
30								3 3	4 0	4 2	4 5	4 6
Mean	.	.	.	.	.	.	2 5	3 2	3 8	4 1	4 3	4 5
Median	.	.	.	.	.	.	2 5	3 2	3 8	4 0	4 3	4 4
Count	.	1	2	.	2	.	12	26	27	29	29	27

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic fbEs
 Unit : Mc.
 Month . November 1958

TABLE 49—Contd
 Ionospheric Data
 75°0' E Mean Time

Latitude : 10°2' N
 Longitude : 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
	4 3	3 9	3 4	3 0							C	1
4 6	4 3	4 0	3 7	2 9				2 7				2
	4 3	4 0	3 5	2 8						2 6		3
4 3	4 0	3 8	3 4	2 8				2 2				4
C	C	C	..	2 9								5
4 3	4 2	3 8	3 5	2 8								6
4 5	4 1	3 9	3 3	2 8								7
C	C	C	3 5	2 9	C							8
4 3	4 2	3 8	3 4	2 7								9
	4 2	4 0	3 5	2 8								10
4 4	4 3	3 7	3 4	2 7					2 0			11
4 2	4 0	3 7	3 3	2 9					2 3			12
4 2	4 4	3 8	3 4	2 6								13
4 2	4 0	3 6	..	2 8								14
4 2	..	3 6	3 2	2 8								15
4 2	4 0	3 8	3 4	2 8					2 6			16
4 2	4 0	3 8	3 4	2 8							1 8	17
4 2	4 0	3 8	3 3	3 0							2 5	18
4 4	4 0	3 8	3 4	2 7								19
4 3	4 0	3 7	3 3	..						2 0		20
4 3	4 0	3 8	3 4	2 8								21
4 2	4 0	3 8	3 4	2 8								22
4 3	4 0	3 8	3 4									23
4 4	4 2	4 0	3 5									24
.	4 2	3 8	3 6	2 8								25
4 4	4 2	3 8	3 4	.								26
4 4	4 0	3 9	3 6	.								27
4 4	.	3 8	3 5	2 8	2 4							28
4 3	4 3	4 0	3 6	2 8						3 2		29
4 6	4 3	3 9	3 7	3 0								30
4 3	4 1	3 8	3 4	2 8		.	.			.	.	Mean
4 3	4 2	3 8	3 4	2 8			.		.	.	.	Median
24	26	28	28	25	1			2	3	3	2	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic f_{min} .

TABLE 50

Latitude : $10^{\circ}2' N$

Unit : Mc.

Ionospheric Data

Longitude : $77^{\circ}5' E$

Month November 1958

 $75^{\circ}0' E$ Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	1.9	1.6	1.6	1.5	1.5	1.7	2.4	2.2	4.0	3.2	C	3.2
2	C	C	1.8	1.7	1.7	1.9	2.2	2.4	4.1	3.2	3.3	3.6
3	1.7	1.5	1.7	1.5	1.6	1.6	2.3	2.5	2.6	3.6	3.4	3.3
4	2.0	1.6	1.7	1.9	2.2	2.3	2.2	2.1	2.4	2.6	2.7	3.0
5	1.5	1.6	1.5	1.4	1.4	1.4	2.2	1.9	2.4	3.0	3.0	3.1
6	1.8	1.7	1.7	1.9	1.7	1.8	2.1	2.0	2.2	2.7	3.0	2.9
7	2.0	1.7	1.7	1.7	1.8	1.8	2.1	1.9	2.5	3.3	3.0	3.1
8	1.7	1.5	1.6	1.4	1.4	1.4	2.2	1.9	2.3	2.6	C	C
9	2.2	2.0	1.5	1.6	1.8	1.6	2.1	2.2	2.3	2.7	3.0	2.9
10	1.8	2.1	1.6	1.8	1.9	1.6	2.1	2.2	2.7	3.0	3.0	3.1
11	2.0	2.1	1.5	1.7	1.4	1.8	2.2	2.2	2.8	3.1	2.7	2.9
12	1.6	1.6	1.4	1.5	1.6	1.7	2.2	2.3	2.5	3.0	3.0	3.1
13	1.6	1.6	1.4	1.4	1.6	1.5	1.9	1.9	2.3	2.6	2.7	3.0
14	1.8	1.5	1.7	1.6	1.5	1.5	2.3	2.0	2.4	2.7	3.0	3.0
15	1.6	1.7	1.8	1.7	1.8	1.7	1.7	1.8	2.2	2.6	2.7	3.0
16	1.4	1.5	1.4	1.5	1.7	1.8	2.2	2.1	2.2	2.8	3.0	3.0
17	2.4	1.8	1.7	1.6	1.7	1.6	2.0	1.7	2.2	2.6	2.8	3.0
18	1.6	1.7	1.8	1.7	1.6	1.5	2.1	1.7	2.3	2.8	2.8	3.0
19	1.7	1.9	1.7	1.6	1.9	1.8	2.0	1.8	2.2	2.6	2.8	2.9
20	1.7	1.8	1.7	1.6	1.6	1.6	1.7	1.8	2.4	2.8	3.0	3.0
21	1.7	2.0	2.4	2.3	2.0	1.7	2.1	2.1	2.4	2.6	3.0	3.0
22	1.7	1.7	1.5	1.5	1.6	1.7	2.2	1.9	2.2	2.6	2.8	3.0
23	2.1	2.1	2.0	1.9	1.8	1.7	2.1	2.0	2.3	2.7	2.7	3.0
24	1.7	1.4	1.5	1.7	1.9	1.8	2.0	2.0	2.5	3.0	3.2	3.2
25	2.2	1.7	1.8	1.5	1.4	1.6	1.6	1.7	2.4	2.8	2.8	2.8
26	1.9	1.4	1.4	1.5	1.6	1.3	2.0	2.2	2.8	2.8	3.0	3.2
27	2.2	1.7	2.0	1.7	1.6	1.5	2.0	1.9	2.4	2.6	3.0	3.0
28	1.8	1.3	2.2	1.6	1.6	1.6	2.0	2.0	2.6	3.0	4.6	3.2
29	2.2	2.2	2.0	1.6	1.6	1.6	2.3	2.2	2.4	2.8	2.8	3.0
30	1.9	2.0	2.0	1.7	1.6	1.7	2.0	2.4	2.8	3.2	3.3	3.2
Mean	1.8	1.8	1.7	1.6	1.7	1.7	2.1	2.0	2.5	2.8	3.0	3.0
Median	1.8	1.7	1.7	1.6	1.6	1.6	2.1	2.0	2.4	2.8	3.0	3.0
Count	29	29	30	30	30	30	30	30	30	30	28	29

Sweep: 1 Mc. to 25 Mc. in 27 seconds.

Characteristic . f min
Unit Mc.
Month November 1958

TABLE 50
Ionospheric Data
75°0' E Mean Time

Latitude 10°2' N
Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.4	3.4	2.9	2.4	2.8	2.6	1.4	1.9	1.6	1.7	1.6	2.1	1
3.4	3.2	3.1	3.0	2.6	2.4	1.5	1.7	1.9	1.8	2.1	1.8	2
3.2	3.4	3.9	2.7	2.4	2.0	1.3	1.7	1.8	2.0	1.9	2.0	3
3.2	3.0	2.7	2.4	2.2	2.4	1.3	1.2	1.6	1.6	1.7	1.5	4
3.3	C	C	2.5	2.6	2.4	1.4	1.7	2.0	1.9	2.1	2.2	5
3.2	3.1	2.6	2.4	2.5	2.5	1.5	1.7	1.8	1.8	1.7	1.6	6
3.2	3.0	2.8	2.4	2.2	2.3	1.4	1.7	1.7	1.8	1.8	1.6	7
C	C	C	2.8	2.4	C	C	1.4	1.9	2.0	2.3	2.3	8
3.2	3.0	2.7	2.6	2.4	2.4	2.0	1.8	1.9	2.0	2.2	2.0	9
3.2	3.1	3.1	2.5	2.6	2.4	1.5	2.3	2.4	2.2	2.1	2.4	10
3.1	2.9	2.7	2.4	2.2	2.3	1.5	1.8	1.8	1.6	2.1	2.1	11
3.0	3.0	2.8	2.3	2.5	2.4	2.2	1.5	1.7	2.1	2.1	1.9	12
3.2	2.7	2.5	2.2	1.9	2.3	1.5	1.7	1.9	2.0	1.8	2.0	13
C	C	2.7	2.4	2.2	1.9	1.4	2.0	1.9	1.8	1.6	1.5	14
3.0	3.0	2.6	2.4	2.2	2.2	1.5	2.0	1.9	1.9	2.0	2.0	15
3.2	3.0	2.6	2.3	2.1	2.4	1.6	2.0	2.0	1.6	2.4	2.4	16
3.0	3.0	2.8	2.4	2.3	2.1	1.6	1.6	1.8	2.0	1.8	1.2	17
3.0	3.0	2.6	2.2	2.2	2.0	1.6	1.6	1.8	1.8	2.4	1.6	18
2.8	2.8	2.6	2.4	2.2	2.3	1.5	1.9	2.0	2.0	2.0	2.0	19
2.9	3.0	2.7	2.3	2.1	2.3	1.4	1.9	2.0	1.8	2.0	1.9	20
3.0	3.0	2.8	2.4	2.5	2.4	1.7	1.9	1.9	1.7	1.9	1.7	21
3.0	3.0	2.6	2.3	2.3	2.0	1.8	2.0	1.9	2.0	2.0	2.2	22
3.0	3.2	2.7	2.5	2.5	2.4	1.4	1.7	1.9	1.9	1.6	1.8	23
3.2	3.2	2.8	2.6	2.6	2.4	1.5	2.1	2.0	1.8	2.0	2.3	24
3.1	3.0	3.0	2.6	2.6	2.4	1.6	1.8	2.0	1.8	2.2	2.0	25
3.2	3.4	3.0	3.0	3.0	2.5	1.4	2.2	2.4	2.0	2.0	2.4	26
4.2	3.0	3.0	2.6	2.8	2.6	1.8	1.7	2.0	2.0	1.9	2.0	27
3.4	3.0	3.0	2.6	2.4	2.2	1.8	2.5	2.2	2.0	2.0	1.7	28
3.2	3.0	2.9	3.0	2.4	2.6	1.4	1.7	1.6	1.7	1.8	1.3	29
3.3	3.6	3.0	2.7	2.6	2.6	1.5	1.8	2.0	1.9	2.0	1.8	30
3.2	3.1	2.8	2.5	2.4	2.3	1.6	1.8	1.9	1.9	2.0	1.9	Mean
3.2	3.0	2.8	2.4	2.4	2.4	1.5	1.8	1.9	1.9	2.0	2.0	Median
28	27	28	30	30	29	29	30	30	30	30	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic . f min
Unit : Mc.
Month November 1958

TABLE 50—Contd
Ionospheric Data
75°0' E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.9	1.4	1.5	1.5	1.6	1.8	2.1	2.5	3.2	3.0	3.4	3.0
2	C	1.8	1.8	1.9	2.1	1.9	2.3	2.6	4.0	3.1	3.3	3.4
3	1.5	1.6	1.4	1.7	1.5	1.9	2.3	2.4	2.8	3.4	3.4	3.2
4	1.9	2.2	1.7	2.1	2.2	1.8	2.6	2.3	2.6	2.6	3.0	3.2
5	1.5	1.7	1.7	1.5	1.4	1.7	2.0	2.4	C	2.9	3.2	3.4
6	1.7	1.6	1.8	1.9	1.7	1.8	2.0	2.0	2.4	3.0	3.1	3.0
7	1.9	1.8	1.9	1.7	1.7	1.7	1.8	2.1	3.5	3.0	3.2	3.1
8	1.6	1.8	1.5	1.5	1.3	1.6	1.9	2.2	2.6	2.7	C	C
9	1.9	1.8	1.6	1.6	1.7	2.0	2.0	2.3	2.5	2.8	3.0	3.0
10	1.8	1.9	1.8	1.9	1.9	2.0	1.9	2.6	2.8	3.0	3.1	3.1
11	1.6	1.7	2.2	1.8	1.6	2.1	1.6	2.6	3.0	2.6	3.0	3.0
12	1.7	1.4	1.4	1.8	1.8	2.0	2.2	2.3	2.9	3.0	3.0	3.2
13	1.7	1.8	1.6	1.4	1.7	1.7	1.8	2.2	2.4	2.6	2.8	3.1
14	2.1	1.5	1.6	1.5	1.7	1.7	1.9	2.2	2.6	2.8	3.2	C
15	1.2	1.8	2.0	1.9	1.5	1.5	1.5	2.2	2.6	2.6	2.8	3.0
16	1.4	1.5	1.4	1.5	1.7	1.8	1.8	2.2	C	2.8	3.0	3.0
17	2.2	1.8	1.8	1.8	1.7	1.5	1.8	1.9	2.4	2.8	2.8	3.2
18	1.7	1.5	1.9	1.8	1.6	1.5	1.9	2.1	2.4	2.8	3.0	3.0
19	1.8	2.1	1.7	2.1	1.9	2.0	1.7	2.2	2.5	2.7	2.7	2.8
20	1.7	1.7	1.7	1.6	1.6	1.6	1.7	2.2	2.5	2.6	3.0	3.0
21	2.2	1.9	2.3	1.8	2.0	1.8	1.9	2.1	2.6	2.7	3.0	3.2
22	1.6	1.5	1.6	1.6	1.6	1.6	1.8	2.1	2.5	2.8	3.2	3.0
23	1.8	2.0	1.8	1.7	1.7	1.7	1.8	2.1	2.5	2.8	3.0	3.0
24	1.7	1.5	1.6	1.7	2.0	1.7	1.9	2.2	3.2	2.9	3.3	3.3
25	1.9	1.9	1.6	1.4	1.6	1.7	1.8	2.2	2.6	3.2	2.8	3.0
26	1.8	1.5	1.3	1.7	1.6	1.7	2.1	2.3	2.8	2.8	3.0	3.3
27	1.8	1.7	2.4	1.7	1.6	1.6	1.8	2.3	2.4	2.7	3.2	3.5
28	1.7	1.6	1.8	1.6	1.9	1.7	2.6	2.3	2.8	3.0	3.6	3.0
29	1.7	2.2	1.6	1.6	1.4	1.6	1.9	2.4	2.7	2.7	3.0	3.1
30	2.0	2.0	1.8	1.6	1.6	1.5	2.1	2.6	2.9	3.2	3.6	3.2
Mean	1.8	1.7	1.7	1.7	1.7	1.7	2.0	2.3	2.7	2.8	3.1	3.1
Median	1.7	1.8	1.7	1.7	1.7	1.7	1.9	2.2	2.6	2.8	3.0	3.1
Count	29	30	30	30	30	30	30	30	28	30	29	28

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f min

Unit : Mc.

Month November 1958

TABLE 50—Contd.

Ionospheric Data

75°0' E Mean Time.

Latitude : 10°2' N

Longitude : 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.7	3.0	2.7	2.7	2.4	1.8	1.5	1.7	1.7	1.9	2.2	C	1
3.4	3.1	3.2	2.8	2.5	1.9	1.6	1.6	1.8	1.8	1.8	1.5	2
4.8	3.2	3.0	2.6	2.3	1.9	1.3	1.6	1.7	1.8	1.4	1.8	3
3.0	3.0	2.7	2.5	2.2	1.7	1.3	1.3	1.1	2.2	1.9	1.6	4
C	C	C	4.1	2.4	1.8	1.3	1.7	1.8	1.8	1.7	2.4	5
2.9	2.9	2.5	2.5	2.6	2.1	1.6	1.7	1.7	1.6	1.6	2.2	6
3.0	3.0	2.6	2.3	2.2	1.8	1.2	1.8	1.9	2.4	1.5	1.9	7
C	C	C	2.6	2.8	C	1.6	1.9	1.9	2.0	2.2	2.4	8
2.9	2.8	2.6	2.5	2.6	1.8	1.6	1.8	1.9	2.1	2.3	2.3	9
3.2	3.0	2.8	2.5	2.5	1.7	1.6	2.0	2.3	2.2	2.1	2.1	10
3.0	2.8	2.5	2.3	2.2	1.8	1.3	2.0	1.8	1.6	2.4	1.7	11
3.0	3.0	2.5	2.6	2.3	1.8	1.6	1.8	1.9	1.9	2.2	1.7	12
2.8	2.4	2.3	2.2	2.2	1.9	1.4	2.0	1.9	1.9	1.7	1.7	13
3.0	2.8	2.6	2.4	2.2	1.8	1.5	2.0	1.8	1.8	1.8	1.5	14
3.0	2.7	2.5	2.4	2.2	1.8	1.8	1.9	2.0	1.6	1.6	1.8	15
3.1	2.8	2.6	2.4	2.2	1.7	1.6	1.7	2.0	2.2	2.4	2.4	16
3.2	3.0	2.6	2.4	2.2	1.8	1.8	1.8	2.0	1.9	1.8	1.4	17
3.0	2.6	2.3	2.4	2.0	1.9	1.3	2.0	1.8	1.7	2.1	2.0	18
2.8	2.6	2.6	2.4	2.2	1.7	1.6	2.0	2.0	1.6	2.0	2.2	19
3.2	2.7	2.5	2.3	2.2	1.7	1.4	2.0	1.8	1.9	1.8	1.7	20
3.2	2.8	2.6	2.6	2.2	2.0	1.4	2.0	1.9	2.0	1.7	1.6	21
3.0	2.6	2.4	2.3	2.1	1.6	1.5	2.0	1.9	1.9	2.4	2.1	22
3.0	3.0	2.7	2.6	2.4	1.8	1.7	1.6	1.7	1.8	1.9	1.6	23
3.2	3.0	3.4	2.6	2.2	1.8	1.6	1.8	1.7	1.9	1.6	2.2	24
4.4	3.1	2.8	2.6	2.6	1.8	1.8	1.5	2.2	2.0	2.2	1.8	25
3.0	3.0	3.0	2.8	3.0	2.0	2.0	2.1	2.0	1.8	2.2	1.8	26
3.2	2.8	3.0	2.8	3.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	27
3.2	5.0	2.8	2.8	2.3	2.2	2.0	2.2	2.2	1.8	2.0	2.3	28
3.1	3.0	2.8	2.6	2.3	1.7	1.4	1.4	1.6	1.7	1.5	1.7	29
3.4	3.0	2.8	2.8	2.4	1.9	1.5	1.9	1.9	1.8	1.4	1.7	30
3.2	2.9	2.7	2.6	2.4	1.8	1.6	1.8	1.9	1.9	1.9	1.9	Mean
3.0	3.0	2.6	2.6	2.3	1.8	1.6	1.8	1.9	1.9	1.9	1.8	Median
28	28	28	30	30	29	30	30	30	30	30	29	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic: 'h'F₂
 Unit: Km
 Month: November 1958

TABLE 51
 Ionospheric Data
 75.0° E Mean Time

Latitude: 10° 2' N
 Longitude: 77° 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	C	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Mean								
Median							
Count							

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic : h'F₂
 Unit : Km
 Month : November 1958

TABLE 51
 Ionospheric Data
 75.0° E Mean Time

Latitude : 10° 2' N
 Longitude : 77° 5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
L	C	C	L	L								5
L	L	L	L	L								6
L	C	C	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	C	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
.	.	.	.	..								Mean
..	..	..	.	.								Mechan
.	.	.	.	.								Count

Sweep in Me. to 25 Me. in 27 seconds.

Characteristic : h'F₂
 Unit Km
 Month November 1958

TABLE 51—Contd
 Ionospheric Data
 75.0° E Mean Time

Latitude . 10 2° N
 Longitude . 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							L	L	L	L	L	L
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4							L	L	L	L	L	L
5							L	L	C	L	L	L
6							L	L	L	L	L	L
7							L	L	L	L	L	L
8							L	L	L	L	L	L
9							L	L	L	L	L	L
10							L	L	L	L	L	L
11							L	L	L	L	L	L
12							L	L	L	L	L	L
13							L	L	L	L	L	L
14							L	L	L	L	L	L
15							L	L	L	L	L	L
16							L	L	C	L	L	L
17							L	L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21							L	L	L	L	L	L
22							L	L	L	L	L	L
23							L	L	L	L	L	L
24							L	L	L	L	L	L
25							L	L	L	L	L	L
26							L	L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	L
29							L	L	L	L	L	L
30							L	L	L	L	L	L
Mean												
Median	.	..										
Count	.											

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic h'F₂
 Unit · Km
 Month November 1958

TABLE 51—Contd
 Ionospheric Data
 75.0° E Mean Time

Latitude : 10.2° N
 Longitude 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L									1
L	L	L	L									2
L	L	L	L									3
L	L	L	L									4
C	C	C	L									5
L	L	L	L									6
L	L	L	L	L								7
C	C	C	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
			.									Mean
.			.							.	.	Median
			.	.					.			Count

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic : "h'F
 Unit · Km
 Month November 1958

TABLE 52
 Ionospheric Data
 75.0° E Mean Time

Latitude : 10 2° N
 Longitude · 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	270	235	225	U240F	U220F	225	270	245	230	225	C	220
2	C	C	U230F	240	240	U230F	265	245	235	225	220	220
3	275	270	265	255	240	235	270	245	235	225	225	220
4	250	240	245	245	230	235	270	245	235	230	215	215
5	235	230	225	225	225	220	270	245	235	225	220	215
6	240	240F	225F	220	220	220	270	245	225	220	210	215
7	260	240	230	235	230	225	280	230H	230	230	225	220
8	240	240	230	225	225	235	285	250	240	230	C	C
9	260	240	235	225	220	225	275	250	240	230	220	225
10	270	230	220	220	230	225	280	250	240	225	220H	220
11	250	260	255	260	260	225	285	250	230	225	220	230
12	240	235	230	225	220	220	280	255	230	240	220H	210H
13	245	240	220	240	240	220	260	240	220	220	220	220
14	305	240	220	220	220	215	275	240	240	220	215	220
15	260	240	230	210	220	230	270	240	220	220	220	215
16	260	240	220	220	215	230	260	240	230	220	220	220
17	240	220	210	220	220	240	280	250	230	220	210	210
18	260	260	220	220	220	220	260	240	230	220	215	205
19	255	U265A	245	280	U300F	280	280	250	240	230	220	220
20	290	250	235	225	230	225	275	245	230	225	220	215
21	235	240	230	230	240	220	270	250	230	225	220	215
22	245	230	220	215	225	260	280	245	235	225	225	220
23	U280F	245	225	225	240	240	275	250	235	225	220	220
24	270	280H	255	270	245	230	290	250	240	230	225	220
25	265	235	240	255	235	235	270	240	235	220	215	220A
26	260	270	280	270	270	225	290	255	240	225	220	220
27	300	280	280	240	220	215	290	255	240	230	220	220
28	350	300	280	250	235	220	260	250	240	230	230	220
29	280	265	240	250	235	220	285	240	240	230	225	220
30	280	270	250	230	220	220	290	255	240	230	225	220
Mean	265	250	235	235	235	230	275	245	235	225	220	220
Median	260	240	230	230	230	225	275	245	235	225	220	220
Count	29	29	30	30	30	30	30	30	30	30	28	28

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'F
Unit Km
Month November 1958

TABLE 52
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N
Longitude : 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
220	220	210	220	250	280	375	U420F	U440F	U410F	U330F	U280F	1
225	220	210	230	250	275	375	420	390	320	260	255	2
215	225	230	240	255	285	355	U435F	U320F	300	270	260	3
210	220	220	235	255	275	365	430	U400F	330	280	250	4
220	C	C	225	245	280	385	U470F	U380F	U340F	U275F	U320F	5
210	210	220H	205H	245	280	390	U460F	F	U440F	U260F	U300F	6
215	220	210	225	250	280	385	U440F	420	450	300	260	7
C	C	C	235	250	C	520	U480F	U380F	U380F	385	310	8
215	215	220	230	250	280	375	475	U485F	U440F	U380F	350	9
220	220	225	225	255	290	400	F	F	F	280	260	10
225	220	225	235	260H	280	390	480	380	320	280	250	11
220	220	220	235	250	280	370	430	400F	340	295	265	12
220	220	220	230	240	270	360	450F	U480F	U440F	380F	340F	13
C	C	220	220	240	280	380	U460F	U400F	U370F	340	280	14
215	210	220	220	240	280	380	U405F	U440F	U360F	U320F	320F	15
220	210	220	225	240	270	365	U400F	U420F	U400F	300	260	16
210	205	210	220	250	280	360	F	F	U400F	340	270	17
205	210	220	220	240	280	360	460F	U460F	U440F	U380F	U300F	18
220	220	220	230	250	280	380	U460F	385	F	U295F	370	19
205H	210	215	220H	250	275	365	F	F	U460F	U400F	320	20
205H	205H	220	220	245	280	390	F	350F	400	U300F	265	21
215	210H	220H	225	240	280	395	U570F	475	390	U400F	330	22
210	215	220	225	250	280	360	380	400	F	U390F	310	23
220	220	220	230	250	280	390	480	380	305	265	280	24
220	225	225	230	255	280	350	420	U400F	420	F	280	25
220	220	220	230	250	275	360	400	440	440	410	340	26
220H	220	225	240	260	280	360	420	U470F	U440F	U400F	340	27
220	220	225	240	260	300	365	400	370	340	340	310	28
220	225	220	235	260	260	360	390	U390F	U380F	360	330	29
220	225	230	230	250	280	370	U470F	480F	420F	F	U360F	30
215	215	220	230	250	280	375	445	U415	U390	330	300	Mean
220	220	220	230	250	280	370	440	U400	U400	325	300	Median
28	27	28	30	30	29	29	26	26	27	28	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic h'F
Unit Km
Month November 1958

TABLE 52—Contd
Ionospheric Data
75.0° E Mean Time

Latitude 10.2° N
Longitude 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	240	220	225	U220F	225	240	255	240	225	215	220	220
2	C	240	235	240F	240	235	255	240	230	220	220	225
3	270	260	260	250	230	250	250	240	235	225	290	210H
4	240	250	245	230	235	250	250	235	230	220	215	215
5	230	225	225	225	220	235	250	235	C	220	220	215
6	240	225	220	220	220	255	255	235	220H	205H	220	215
7	245	240	240	235	230	250	250	240	235	230	220	215
8	240	240	230	220	230	260	260	240	230	220	C	C
9	230	240	225	220	220	255	260	240	235	220	215	220
10	240	220	220	230	230	260	260	240	240	220H	215H	220
11	245	245	260	265	240	240	260	240	230	230	225	230
12	240	230	225	225	225	240	260	240	235H	230	205H	220H
13	240	230	230	240	240	240	250	240	220	220	220	220
14	270	220	220	220	220	240	250	240	230	220	220	C
15	260	240	220	200	230	240	255	230	220	220	220	215
16	240	220	220	220	220	235	250	235	C	200H	220	220
17	230	220	220	220	220	260	260	240	225	220	210	205
18	260	245	230	220	220	240	250	235	225	220	200	210
19	255	245	260	300	300	275	260	245	230	225	215	220
20	250	240	235	225	220	240	260	240	225	220	220	210
21	240	230	230	230	235F	245	260	240	230	225	215	215
22	245	225	215	220	235	260	250	240	230	225	220	215
23	260	235	225	220	235	245	260	240	235	225	220	210
24	265H	260H	260	F	240	240	260	240	235	230	225	220
25	250	235	240	245	230	235	260	240	230	220	225	A
26	270	275	280	265	230	240	265	250	235	220	220	215
27	300	300	265	220	220	240	265	245	240	220	220	240
28	320	290	260	240	230	230	270	240	235	220	220	220
29	270	260	240	240	220	235	265	240	235	230	220	215
30	270	260	240	230	220	240	270	250	240	230	220	220
Mean	255	240	235	230	230	245	260	240	230	220	220	220
Median	250	240	230	225	230	240	260	240	230	220	220	215
Count	29	30	30	29	30	30	30	30	28	30	29	27

Sweep 1 Mc. to 25 Mc in 27 s conds.

Characteristic h'F
Unit Km
Month - November 1958

TABLE 52—Contd.
Ionospheric Data
75°0' E Mean Time

Latitude : 10.2° N
Longitude : 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
220	220	220	240	265	310	410	U420F	U420F	U400F	U295F	C	1
225	220	225	245	255	315	420	400F	U375F	280	250	270	2
235	225	230	245	265	315	U425F	U360F	U325F	280	265	245	3
215	215	225	240	265	305	415	420F	360	305	305	265	4
C	C	C	245	260	310	U430F	U480F	U305F	U345F	245	U250F	5
210H	200H	210H	240	260	310	465F	U500F	U530F	U360F	U280F	320	6
215	220	220	230	265	320	420	U440F	U415F	360	270	255	7
C	C	C	240	265	C	445	F	U440F	U400F	U375F	275	8
215	220	220	240	260	310	440	U500F	500F	U410F	U340F	290	9
220	220	220	245	260	310	U460F	F	F	F	260	255	10
230	220	230	240H	270	320	460	U440F	355	305	265	240	11
220	210H	230	245	260	300	400	440	380F	305	290	260	12
220	220	220	240	260	300	425	U460F	U475F	420F	360F	325F	13
200H	210H	220	240	260	305	440	U460F	U400F	U340F	320	300	14
210	220	220	220	250	305	U420F	U400F	U420F	U340F	U320F	295	15
220	220	220	240	255	300	405	U420F	U400F	320	280	240	16
210	210	220	240	260	310	400	F	U400F	U400F	280	260	17
210	215	220	240	260	300	425	U460F	U440F	U380F	U340F	270	18
220	215	220	235	260	305	F	U420F	F	F	330	U345F	19
200H	210H	210H	235	260	300	F	F	F	U400F	390	265	20
200H	210H	220	235	260	310	465	F	U325F	U325F	310	250	21
215	210	220	235	265	315	490	500	460	360	390	U270F	22
210	220	220	240	265	305	380	390	440F	370F	360	280	23
220	220	230	240	265	320	460	FH	340	280	270	270	24
220	220	220	225	260	310	390	440F	400	430	320F	260	25
220	220	235	240	260	300	400	400	460	410	400	300	26
220	220	230	240	260	310	390	480F	440F	U480F	U370F	360	27
220	B	240	240	270	310	400	390	350	340	320	300	28
220	230	230	250	265	305	380	390	U390F	360	360	290	29
220	220	230	240	260	305	420	500F	510F	F	420F	380	30
215	215	225	240	260	310	425	U440	U410	360	320	280	Mean
220	220	220	240	260	310	420	U430	U400	360	320	270	Median
28	27	28	30	30	29	28	24	27	27	30	29	Count

Sw ep 1 Mc to 2 c. in 27 seconds

Characteristic : h'E
 Unit : Km
 Month November 1958

TABLE 53
 Ionospheric Data
 75°0' E Mean Time

Latitude : 10 2° N
 Longitude : 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								115	B	A	C	A
2								120	B	A	C	A
3								120	115	A	115	110
4								110	105	A	A	A
5								115	A	110	A	A
6								105	105	A	A	A
7								110	A	B	A	A
8								115	105	A	C	C
9								115	A	A	A	A
10								115	A	A	A	A
11								A	120	A	A	A
12								115	110	A	A	A
13								110	A	A	A	A
14								110	A	A	A	A
15								A	A	A	A	A
16								110	A	A	A	A
17								A	A	A	A	A
18								105	A	A	A	A
19								105	A	A	A	A
20								110	105	A	A	A
21								110	A	A	A	A
22								110	105	105	105	110
23								110	A	A	A	A
24								110	A	A	A	A
25								110	110	110	A	A
26								120	120	110	110	110
27								115	110	A	115	A
28								110	120	110	B	110
29								120	120	115	110	A
30								120	120	115	A	110
Mean								110	110	110	110	110
Median								110	110	110	110	110
Count								27	14	7	5	5

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic · h'E
Unit Km
Month November 1958

TABLE 53
Ionospheric Data
75°0' E Mean Time

Latitude 10°2' N
Longitude 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A								1
A	A	A	A	A								2
A	A	B	A	A								3
A	110	A	A	A								4
110	C	C	A	120								5
A	A	A	A	115								6
A	A	A	A	115								7
C	C	C	A	A	C							8
A	A	A	A	A	A							9
A	110	110	110	A								10
A	A	A	A	A								11
A	A	A	A	A								12
A	A	A	A	A								13
C	C	105	105	110	A							14
A	A	105	105	115								15
A	A	A	A	A								16
A	A	A	A	110	140							17
A	A	A	A	A	120							18
A	A	A	105	115	130							19
A	A	A	A	110								20
A	A	A	A	120								21
110	105	A	A	A	F							22
A	A	A	A	A								23
A	A	A	A	A								24
110	110	110	110	A								25
110	A	A	115	A								26
B	110	A	A	A								27
A	110	A	110	A								28
A	110	110	110	110								29
115	115	115	110	115								30
110	110	110	110	115								Mean
110	110	110	110	115								Median
5	9	6	9	11	3	.	.			.		Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic h'E
Unit Km
Month November 1958

TABLE 53—Contd
Ionospheric Data
75°0' E Mean Time

Latitude : 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							120	A	A	A	A	A
2							130	115	B	A	A	A
3							120	110	110	115	A	A
4								105	110	A	A	A
5							120	A	C	A	A	A
6							120	105	105	A	A	A
7							115	A	B	A	A	A
8							120	110	105	A	C	C
9							120	110	A	A	A	A
10							120	115	A	A	A	A
11							A	125	120	A	A	A
12							120	115	110	A	A	A
13							120	A	A	A	A	A
14							120	105	A	A	A	C
15							110	A	A	A	A	A
16							120	110	C	A	A	110
17							110	A	A	A	A	A
18							120	A	A	A	A	A
19							115	A	A	A	A	A
20							115	105	105	A	A	A
21							120	A	A	A	A	A
22							115	110	105	105	115	110
23							115	105	A	A	A	A
24							115	105	A	A	A	A
25							120	115	110	115	A	A
26							120	115	115	110	110	110
27							120	110	110	A	110	A
28								110	120	110	120	110
29							120	120	110	110	115	110
30							125	120	120	110	A	110
Mean							120	110	110	110	115	110
Median							120	110	110	110	115	110
Count							27	21	14	7	5	6

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic h'E
 Unit Km
 Month November 1958

TABLE 53—Contd
 Ionospheric Data
 75°0' E Mean Time

Latitude : 10 2° N
 Longitude : 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
B	A	A	A	A								1
A	A	A	115	A								2
B	A	A	A	A								3
105	A	A	A	A								4
C	C	C	B	125								5
A	A	A	A	A								6
A	A	A	110	A								7
C	C	C	A	A								8
A	A	A	A	A								9
105	115	110	110	A								10
A	A	A	A	A								11
A	A	A	A	A								12
A	A	A	A	A								13
A	110	105	110	120								14
A	105	105	115	U120F								15
A	A	A	A	120								16
A	A	A	110	110								17
A	A	A	A	A								18
A	A	A	115	115								19
A	A	A	A	115								20
A	A	A	A	120								21
110	A	A	A	A								22
105	A	A	110	125								23
A	A	B	A	120								24
B	110	110	110	A								25
110	110	115	120									26
110	110	A	A									27
110	B	110	110	120								28
A	A	115	115	120								29
115	110	110	A	115								30
110	110	110	110	120					..	.	.	Mean
110	110	110	110	120	.						.	Median
8	7	8	12	13								Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h'Es
Unit Km
Month November 1958

TABLE 54
Ionospheric Data
75°0' E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								100	100	100	G	100
2	C	C						G	100	100	100	100
3								G	100	100	G	100
4								100	100	100	100	100
5								100	100	100	100	100
6								105	100	100	100	100
7								100	100	100	100	100
8								100	100	100	C	C
9								100	100	100	100	100
10								100	100	100	100	100
11					100			100	G	100	100	100
12								100	100	100	100	100
13								100	100	100	100	100
14								100	100	100	100	100
15	100	100						100	100	100	100	100
16								G	100	100	100	100
17								100	100	100	100	100
18								105	100	100	100	100
19	120	100						100	100	100	100	100
20								100	100	100	100	100
21								100	100	100	100	100
22								G	100	100	100	100
23								100	100	100	100	100
24				100				100	100	100	100	100
25							160	G	100	100	100	100
26								100	100	100	100	100
27		115	110					100	100	100	100	100
28		110						100	100	100	G	100
29								G	100	100	100	100
30		100						G	100	100	100	100
Mean	..	105						100	100	100	100	100
Median		100						100	100	100	100	100
Count	2	5	1	1	1		1	23	29	30	26	29

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'Es
 Unit Km
 Month November 1958

TABLE 54
 Ionospheric Data
 75°0' E Mean Time

Latitude . 10 2° N
 Longitude . 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100								1
100	100	100	100	100				135				2
100	100	100	100	100	110						100	3
100	100	100	100	100					120			4
100	C	C	100	100								5
100	100	100	100	100								6
100	100	100	100	100					120			7
C	C	C	100	100	C	C						8
100	100	100	100	100	100							9
100	G	100	100	100								10
100	100	100	100	100								11
100	100	100	100	100						115		12
100	100	100	100	100								13
C	G	100	100	G	120							14
100	100	G	100	100								15
100	100	100	100	100								16
100	100	100	100	100					110			17
100	100	100	100	100	110						110	18
100	100	100	100	100	110							19
100	100	100	100	100	G							20
100	100	100	100	100								21
100	100	100	100	100	120							22
100	100	100	100	100								23
100	100	100	100	100								24
100	100	100	100	100								25
100	100	100	100	100								26
100	100	100	100	100								27
100	100	100	100	100	120	100						28
100	100	100	100	100						120	110	29
100	100	100	100	100								30
100	100	100	100	100	115							Mean
100	100	100	100	100	100	.	.			.		Median
28	26	27	30	29	7	1		1	3	2	4	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic h'Es
Unit Km
Month November 1958

TABLE 54—*Contd*
Ionospheric Data
75°0' E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							G	100	100	100	100	100
2	C						G	G	100	100	100	100
3							G	G	100	G	100	100
4								100	100	100	100	100
5							G	100	C	100	100	100
6							110	100	100	100	100	100
7							G	100	100	100	100	100
8							100	100	100	100	C	C
9							100	100	100	100	100	100
10							100	100	100	100	100	100
11				100			100	G	G	100	100	100
12							100	100	100	100	100	100
13							100	100	100	100	100	100
14							100	100	100	100	100	C
15	100						100	100	100	100	100	100
16							G	100	C	100	100	100
17							100	100	100	100	100	100
18							G	100	100	100	100	100
19	120	120	115				100	100	100	100	100	100
20							100	100	100	100	100	100
21							105	100	100	100	100	100
22							G	100	100	100	100	G
23							G	100	100	100	100	100
24				100			105	100	100	100	100	100
25					110		G	G	100	100	100	100
26							G	100	100	100	100	100
27	120	100	120				G	100	100	100	100	100
28		110	115					100	100	100	100	100
29							G	100	100	100	100	100
30	120						G	100	100	100	100	100
Mean					.		100	100	100	100	100	100
Median					.		100	100	100	100	100	100
Count	4	3	3	2	1		14	26	27	29	29	27

Sweep 1 Mc 10.25 Mc. in 27 seconds.

Characteristic h'Es
 Unit Km
 Month November 1958

TABLE 54—Contd.
 Ionospheric Data
 75°0' E Mean Time

Latitude . 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100							C	1
100	100	100	100	105				105				2
100	100	100	100	105						105		3
100	100	100	100	105				100				4
C	C	C	G	100								5
100	100	100	100	100								6
100	100	100	100	100								7
C	C	C	100	100	C							8
100	100	100	100	100								9
G	100	100	100	100								10
100	100	100	100	100					110			11
100	100	100	100	100					115			12
100	100	100	100	100								13
100	100	100	G	100								14
100	G	100	100	100					120	100		15
100	100	100	100	105					110			16
100	100	100	100	105							110	17
100	100	100	100	100							110	18
100	100	100	100	105								19
100	100	100	100	105						120		20
100	100	100	100	100								21
100	100	100	100	105								22
100	100	100	100	105								23
100	100	100	100	105								24
G	100	100	100	100								25
100	100	100	100	105								26
100	100	100	100	110								27
100	100	100	100	110	100							28
100	100	100	100	100						115		29
100	100	100	100	105							120	30
100	100	100	100	105								Mean
100	100	100	100	100								Median
26	27	28	28	30	1			2	4	4	3	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic (M3000) F2
 Unit .
 Month November 1958

TABLE 55
 Ionospheric Data
 75°0' E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U2 55F	F	2 95	F	F	3 25	2 90	2 80	2 55	2 20	C	2 10
2	C	C	F	2 85F	2 95	F	2 85	2 80	2 65	2 45	2 25	2 05
3	2 50	2 55	2 65	2 75	2 85	2 95	2 85	2 80	2 65	2 30	2 10	2 15
4	2 75	2 80	2 75	2 85	2 95	3 00	2 85	2 70	2 50	2 25	2 15	2 15
5	2 75	2 90	2 90	2 90	2 95	3 10	2 90	2 70	2 55	2 45	2 30	2 20
6	2 75	F	F	3 00	3 15	3 15	2 85	2 65	2 50	2 30	2 20	2 20
7	F	F	F	U3 00S	3 10	3 20	U2 95F	U2 80F	2 50	2 35	2 30	2 20
8	F	2 80	2 95	U3 10S	U3 15S	3 05	2 80	2 60	2 50	2 35	C	C
9	U2 80F	2 80	3 00	3 20	3 15	3 20	U2 80S	2 70	2 50	2 40	2 30	2 15
10	F	U3 00F	2 90	U3 05F	F	3 05	U2 85S	2 70	2 50	U2 40R	2 30	2 25
11	2 75	F	2 80	2 80	2 90	F	FS	2 50	2 50	2 50	2 30	U2 10R
12	U2 90F	2 95F	3 00	3 05	3 15	3 30	2 95	2 70	2 60	2 40	2 35	2 30
13	U2 75S	F	U3 10S	3 10	U3 05S	U3 10S	3 00	2 70	U2 45R	2 50	2 40	2 30
14	F	F	F	U3 30ST	U3 30S	3 30	3 00	2 75	U2 60R	2 45	2 40	2 35
15	F	U2 95F	F	3 35	3 40	3 30	U3 00S	2 80	U2 60S	2 45	2 35	2 35
16	F	F	F	F	U3 30R	3.40F	U3 20S	3 00	2 70	2 40	2 40	2 25
17	J3 10R	U3 30S	U3 50S	3 30	3 20	3 20	2 90	2 80	2 60	2 45	2 30	2 30
18	U2 70R	F	F	3 00	3 10	3.25	3 10	3 05	2 80	2 55	2 30	2 25
19	F	F	U2 75F	F	F	U2.60F	2 65	2 35II	2 50	2 45	2 40	2 30
20	F	F	U2 95F	3 10R	F	3.30F	F	2 65	2 50	2 40	2 30	2 20
21	F	F	F	3 15	F	F	F	2 80	2 50	2 40	2 30	2 25
22	F	F	3 15	U3 20R	3 30	3 00	2 85	2 90	2 65	2 45	2 30	2 30
23	F	F	F	3 10	F	F	F	2 75	2 55	2 30	2 30	2 15
24	F	2 70FH	J2 55F	F	F	U3 10F	2 75F	2 50	2 50	2 40	2 25	2 20
25	2 50	2 70	2 85	U2 75S	2 75	3 05	2 95	2 75	2 50	2 40	2.40	2 40
26	2 45	F	U2 50F	2 70	F	3 00	2 90	2 65	2 45	2 40	2.30	2 25
27	F	F	F	F	3 05	3.20	F	2 60	2 50	2 35	2.30	2 25
28	F	F	F	2 70	U2 80S	3.10	2 95	2 70	2 55	2 45	2 30	2 20
29	2 50	2 70	2 80	2 95	3 05	3.15	2 80	U2 75S	2 55	2 35	2.20	2 15
30	U2 50C	U2 75S	2 90	3 00	3 05	3 20	U2 80S	2 60	2 50	2 30	2.15	2 10
Mean	2 70	2 85	2 90	3 00	3 05	3 15	2 90	2 70	2 55	2 40	2 30	2.20
Median	2 75	2 80	2 90	3 00	3 10	3 15	2 90	2 70	2 50	2 40	2 30	2 20
Count	15	13	19	25	22	26	25	30	30	30	28	29

Sweep 1 to 25 Mc in 27 seconds

Characteristic (M3000) F2
 Unit :
 Month November 1958

TABLE 55
 Ionospheric Data
 75°0' E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2 10	2 05	2 00	2 00	2 00	2 05	U2 10s	1 95	F	F	F	U2 50F	1
2 10	2 05	2 05	2 00	U2 10R	2 00	1 90	U1 95s	U1 85F	F	F	U2 60F	2
2 05	2 00	2 00	1 95	2 00	2 05	2 05	U2 00F	2 15	2 35	2 50	2 70	3
2 05	2 00	2 00	2 05	2 10	2 05	2 05	2 00	U2 05s	2 25	U2 35F	2 60	4
2 15	C	C	2 05	2 10	2 05	1 90	F	F	F	F	F	5
2 15	2 10	2 05	2 05	2 10	2 05	U2 00W	F	F	F	F	F	6
2 10	2 10	2 15	2 15	2 10	2 00	1 90	F	U1 90F	F	FS	F	7
C	C	C	2 05	U2 05s	C	C	F	F	F	F	F	8
2 15	U2 10R	2 05	U2 05s	2 05	2 10	2 05	1 85	U1 90F	F	F	F	9
2 20	2 20	2 20	2 10	2 05	2 00	1 90	U1 85F	F	F	U2.45F	F	10
2 10	2 20	2 25	2 15	2 15	2 00	1 90	F	F	F	F	2 60	11
2 25	2 20	2 10	2 10	2 10	J2.10R	U1 95s	F	F	F	F	U2 50F	12
2 30	2 30	U2 30R	U2 25R	U2 20R	U2 30R	R	U2 50F	F	F	F	F	13
C	C	J2 40R	2 40	2 40	U2 30s	J2 05R	F	F	F	F	F	14
2 30	2 30	U2 25R	U2 25s	J2 25R	2 20	U2 00R	F	F	F	F	F	15
2 25	2 30	2 25	2 15	2 20	U2 25R	U2 10s	D1 95W	U2 05F	U2 20F	U2 55HR	2 90R	16
2 30	2 20	2 15	U2 15R	2 15	2 10	2 05	F	F	U2 30F	F	U2 55R	17
2 20	2 10	2 15	U2 20s	U2 30s	J2 30R	U2 15s	U2 00F	FS	F	F	F	18
2 30	2 30	2 25	2 15	2 05	R	1 85H	1 90	F	F	F	J2 40F	19
2 15	2 10	2 05	2 10	2 15	2 10	2 00	1 90	F	F	F	F	20
2 20	2 20	2 10	2 10	2 05	2 05	1 90	1 90	F	F	F	2 45F	21
2 30	2 20	2 05	2 00	2 00	2 00	2 05	F	F	F	U2.40F	F	22
2 10	2 10	2 15	2 10	U2 10s	U2 05s	2 00	1 95	2 10FJ	2 05F	U2 00F	F	23
2 15	2 10	2 05	2 05	2 00	2 05	2 00	1 85	2 00	U2 10R	J2 40s	U2 45s	24
2 35	2 30	2 20	U2 10R	U1 90R	2 10	2 10	1 95	2 05	F	F	U2 40s	25
2 15	2 10	2 10	2 10	2 10	2 10	U2 05R	R	RS	1 95	F	F	26
2 25	2 20	2 10	2 00	2 00	U2 05s	U2 050	R	F	F	F	F	27
2 00	2 05	2 05	2 00	2 05	2 15	2 10	2 10	2 10	2 20	2 30	2 30	28
2 15	2 05	2 00	U2 10s	2 10	U2 05s	2 00	2 05	2 00	U2 05s	U2 10s	2 30	29
2 05	2 00	2 00	2 05	U2 10s	U2 00s	2 00	1 95	F	F	F	U2 20F	30
2 20	2 15	2 10	2 10	2 10	2 10	2 00	1 95	2 00	U2 15	U2 35	U2 50	Mean
2 15	2 10	2 10	2 10	2 10	2 05	2 00	1 95	2 05	U2 20	U2 40	U2 50	Median
28	27	28	30	30	28	28	18	11	9	9	15	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic (M₃₀₀₀) F₂
 Unit
 Month November 1958

TABLE 55—Cont'd
 Ionospheric Data
 75°0' E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	F	U3 00F	F	3 05	2 45H	2 90	2 70	2 35	2 20	2 10	2 05
2	C	2 85	2 85F	F	F	2 90F	2 90	2 80	2 60	2 30	2 10	2 05
3	U2 60S	2 60	2 70	2 85	2 95	2 80	2 80	2 75	2 50	2 15	2 10	2 10
4	2 80	2 80	2 80	3 00	2 95	2 90	2 85	2 60	2 35	2 20	2 10	2 10
5	2 90	2 90	2 90	2 95	3 05	3 05	2 80	2 60	C	2 35	2 25	2 20
6	U2 60F	F	F	3 05	3 25	2 60H	2 80	2 60	2 40	2 25	2 15	2 20
7	F	F	U2 95F	3 00	3 15	3 05	U2 85F	2 60	2 40	2 30	2 25	2 10
8	U2 70F	2 80	U3 00S	3 15	3 10	2 95	U2 70S	J2 55S	2 40	2 35	C	C
9	U2 85F	2 95	U3 00S	3 25	3 05	2 85	U2 80S	2 55	2 40	2 35	2 20	2 10
10	F	U2 80F	F	F	3 20	2 80	2 80	2 65	2 50	2 30	2 25	2 20
11	J2 60S	2 70	F	2 85	F	U3 00F	2 70	2 45	2 50	2 40	U2 25R	2 05
12	U2 90S	3 00	U3 05S	3 10	3 20	3 05	2 85	2 60	2 45	2 40	2 30	2 25
13	F	J3 00R	3 10	U3 05S	U3 00S	3 05	2 90	2 45	2 50	J2 45R	2 30	2 35
14	F	F	F	F	3 30	U3 00HS	U3 00S	U2 60S	2 55	2 40	2 30	C
15	F	U3 05SF	U3 20S	3 20	3 30	2 60H	U2 90S	2 60	2 50	2 45	2 35	2 30
16	F	U3 10S	3 20	U3 40SF	U3 00HR	2 50H	3 10	J2 90R	C	2 40	2 35	J2 25R
17	3 15	3 40	3 30	3 30	3 25	2 60	U2 90S	2 65	2 60	2 40	2 20	2 30
18	U2 70F	F	3 00	3 10	3 25	3 20	U3 20S	2 95	2 65	2 40	U2 30R	U2 25R
19	F	F	2 65	2 60	F	U2 65F	2 55	2 55	2 50	2 40	2 30	2 30
20	2 55F	F	U3 10F	F	U3 30F	F	U2 80F	2 55	2 55	2 30	2 20	2 15
21	F	F	U3 00F	U3 10F	F	F	2 90	2 65	2 45	2 35	2 25	2 20
22	2 70F	U3 05F	3 25	3 25	3 15	2 45H	2 95	2 70	2 55	2 35	2 30	2 30
23	F	F	3 00	U3 05F	F	F	2 85	2 55	2 45	2 25	2 20	2 10
24	FH	U2 55HF	F	F	3 00F	F	U2 60F	2 60	2 50	2 30	2 25	2 20
25	2 60	2 90	2 80	2 80	U2 90S	3 15	2 85	2 70	2 45	2 35	2 35	2 35
26	F	2 60F	2 65	F	F	3 00	2 70	2 55	2 50	2 35	2 25	2 20
27	F	F	F	U3 00F	3 25	F	F	2 50	2 45	2 35	2 25	2 25
28	F	F	F	2 75	U3 05S	3 15	U2 90S	2 55	2 50	2 30	2 30	2 10
29	2 60	2 80	2 90	3 00	3 10	3 05	U2 80S	2 65	2 45	2 25	2 15	2 20
30	2 60	2 80	2 90	3 05	3 20	2 90	U2 70S	U2 60S	2 45	2 20	2 10	2 05
Mean	2 70	2 90	2 95	3 05	3 10	2 85	2 85	2 60	2 50	2 35	2 25	2 20
Median	2 70	2 85	3 00	3 05	3 10	2 90	2 85	2 60	2 50	2 35	2 25	2 20
Count	15	19	23	23	24	25	29	30	28	30	29	28

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic (M3000) F₂
 Unit
 Month November 1958

TABLE 55—Contd
 Ionospheric Data
 75°0' E Mean Time

Latitude 10 2° N
 Longitude 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2 05	2 05	2 00	2 00	2 00	U2 10S	U2 00S	U2 00F	F	F	F	C	1
2 05	2 05	2 05	2 00	2 00	U2 05S	1 90	1 90	U2 20S	2 45F	U2 60F	2 45	2
2 00	2 00	2 00	2 00	2 05	2 05	2 00	2 10	U2 30S	2 45	2 60	2 70	3
2 05	2 00	2 05	2 05	2 05	2 05	2 00	U2 00F	2 15	2 30	2 50	2 75	4
C	C	C	2 10	2 10	1 95	2 00	F	F	F	F	F	5
2 10	2 05	2 05	2 10	2 15	2 00	U1 90W	F	F	F	F	F	6
2 05	2 10	2 15	2 10	2 05	2 00	1 85	U1 85F	F	FS	FS	F	7
C	C	C	2 00	U2 05S	C	1 90	F	F	F	F	F	8
2 10	2 10	2 10	U2 10S	U2 05S	2 10	1 95	U1 85F	U2 00F	F	F	F	9
2 15	2 20	2 15	2 10	2 05	R	U1 85F	F	F	F	U2 35F	F	10
2 20	2 25	2 20	2 20	2 10	2 00	U1 80W	F	F	F	F	F	11
2 25	2 15	2 15	2 15	U2 10R	2 05	J1 90R	F	F	F	F	U2 60F	12
2 30	2 30	U2 25R	2 20	U2 25R	R	R	F	F	F	F	F	13
2 40	2 40	2 35	2 40	U2 40S	U2 15S	2 00	F	F	F	F	F	14
2 25	2 25	U2 25R	J2 25R	2 25	J2 05R	F	F	F	F	F	F	15
2 30	2 30	2 20	U2 20R	2 25	2 20	2 00	U2 00F	F	2 45	U2 70HR	2 95	16
2 25	2 15	2 15	U2 15S	2 15	S	U2 00S	F	F	F	U2 50F	U2 60R	17
2 10	2 10	2 20	2 30	U2 30S	J2 30R	2 00	2 00	F	F	F	F	18
2 30	2 25	2 20	U2 10R	2 05	2 00	2 00	U1 95F	F	F	J2 50F	F	19
2 15	2 05	2 05	2 15	2 15	2 05	1 90	U1 90F	F	F	F	U2 60F	20
2 15	2 15	2 10	2 10	2 10	2 00	1 90	F	F	F	F	2 55	21
2 25	2 15	2 05	J2 00R	2 05	2 05	1 90	F	F	F	F	F	22
2 10	2 10	2 10	2 10	J2 05S	2 05	1 95	2 00	F	U2 00F	F	F	23
2 15	2 05	2 05	U2 00S	2 05	U2 00S	1 90	2 00H	2 10H	J2 25S	2 40	2 50	24
2 30	2 25	2 15	2 00	E2 05W	2 15	2 05	1 95	U1 95F	F	2 20	U2 40F	25
2 15	2 10	2 05	2 10	2 05	U2 10R	U2 00R	U2 00R	1 95	F	F	F	26
2 20	2 15	2 05	U1 95R	U2 05S	U2 05S	2 00	F	F	F	F	F	27
1 90	2 00	2 00	2 00	2 05	2 20	2 05	2 10	2 20	2 25	2 35	2 40	28
2 05	1 95	2 05	2 10	2 05	U2 00S	2 00	2 00	U2 05S	U2 10S	U2 15S	2 40	29
2 00	2 00	2 05	U2 05R	U2 05S	E2 00W	U2 05S	F	F	F	F	F	30
2 15	2 15	2 10	2 10	2 10	2 05	1 95	2 00	2 10	2 30	2 45	2 60	Mean
2 15	2 10	2 10	2 10	2 05	2 05	2 00	2 00	2 10	2 30	2 50	2 60	Median
28	28	28	30	30	26	28	16	9	8	11	12	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic : fo F₂
 Unit . Mc
 Month December 1958

TABLE 56
 Ionospheric Data
 75°0' E Mean Time

Latitude 10 2° N
 Longitude . 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	U9 4F	9 0	U8 1F	7 4	4 8	6 8	10 1	11 7	11 5	11 0	10 8
2	F	F	U8 5F	7 8	7 8	6 3	7 1	10 8	12 7	13 1	12 9	12 7
3	11 2	U10 6s	U10 2F	10 6	10 2	U9 7s	10 3	11 5	13 0	13 1	12 2	11 3
4	10 8	10 3	10 2	9 8	7 7	U5 2s	U7 1s	10 6	12 9	13 7	14 6	15 0
5	U11 5s	11 5	11 7	11 3	10 2	U9 6s	U9 1s	9 1	9 0	9 3	U7 8W	U8 6W
6	U5 8F	U6 4F	U6 3F	F	5 4F	4 2	U6 2s	U9 3s	11 3	12 8	14 0	14 3
7	U8 7F	F	8 3	8 0	5 5	4 2	6 5	U10 0s	11 4	12 7	12 6	12 8
8	U8 9F	9 6	U8 9F	7 8	F	5 4	U7 3s	11 0	12 6	13 4	13 1	12 8
9	U9 4s	F	U7 5F	7 7	8 3	7 3	8 6	12 1	13 6	14 5	14 4	13 8
10	F	F	9 1	8 7	8 1	6 3	6 7	10 4	13 0	13 5	13 2	12 9
11	F	F	F	F	5 7	U3 9R	5 8	9 8	12 2	12 7	12 7	12 3
12	F	F	F	U7 3s	6 1	5 8	7 1	10 4	12 5	U13 1R	13 5	13 3
13	F	F	F	F	F	6 9	7 0	10 3	12 6	13 7	13 8	13 8
14	11 3	U11 9s	11 0	U9 6s	9 4	U7 6sF	5 7	U9 4s	11 6	12 6	U13 3R	13 3
15	F	U10 8F	11 0	U11 7s	11 4	8 9	8 8	10 5	11 3H	11 0	10 8	10 2
16	10 4	F	U9 4s	8 9	6 8	5 7	U6 2s	U9 8s	U11 7s	11 6	10 9	10 4
17	10 0	10 8	U9 8s	8 6	8 4	U7 6s	7 7	10 6	12 9	13 0	12 2R	11 3
18	9 8	9 8	10 6F	9 0	F	11 6	7 9	10 7	12 0	13 0	13 3	13 3
19	F	F	F	F	F	F	FS	12 4	13 8	U15 0F	14 4	14 6
20	U11 0R	J9 8s	U9 3s	9 5	U9 5s	J8 2R	6 4	10 0	12 0	12 7	U12 2R	11 6
21	7 8	7 7F	J7 5s	6 4	6 8	7 0	U7 4s	10 7	12 7	12 8	12 4	11 8
22	U9 8s	U9 5s	U9 4s	9 0	8 6	U7 5s	6 7	10 3	12 8	J13 2R	U13 0R	11 8
23	F	F	F	F	U8 8F	8 5	8 4	11 0	J13 2R	J13 2R	12 0	11 1
24	U9 4s	U9 8s	U10 1s	U9 2s	9 0	7 0	6 6	10 2	12 4	13 0	12 7	11 7
25	F	F	F	U7 5F	6 1	4 9	5 7	9 4	11 4	11 8	11 4	10 7
26	F	F	U6 9F	F	6 6F	5 6	U6 1s	10 1	12 2	13 4	13 8	13 2
27	9 9	U9 6s	8 8	7 8	6 8	6 8	8 0	11 0	12 4	13 3	12 8	11 9
28	U9 4s	U8 6s	8 7	8 4	7 5	4 6	5 6	9 7	12 0	12 4	11 6	11 4
29	8 5	7 9	F	7 6	8 1	6 4	6 6	10 5	12 3	13 0	12 6	11 5
30	U9 5s	9 1	9 0	9 0	8 5	J7 6s	J7 4s	10 4	12 2	11 6	10 8	10 2
31	10 1	U9 4s	8 8	8 5	8 7	7 6	7 0	10 8	12 6	12 6	12 5	11 5
Mean	9 7	U9 6	9 2	8 7	7 9	6 8	7 1	10 4	12 3	12 8	12 5	12 1
Median	9 8	U9 6	9 0	8 6	8 1	6 8	7 0	10 4	12 4	13 0	12 7	11 8
Count	20	19	24	25	27	30	30	31	31	31	31	31

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic fo F2
Unit Mc
Month December 1958

TABLE 56
Ionospheric Data
75° E Mean Time

Latitude 10° 2' N
Longitude 77° 5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
10 8	11 3	11 1	11 2	11 1	11 0	10 3	u8 6w	F	F	u8 0F	u9 1F	1
12 4	12 6	12 5	12 4	11 5	10 3	u9 6s	F	u9 5F	u10 4F	u11 8s	u11 6F	2
11 3	11 4	11 6	11 4	10 8	10 4	u10 2s	9 0	u8 6F	u9 2s	10 2	10 6	3
14 8	14 6	15 1	14 6	14 7	14 1H	12 5H	u11 0F	F	F	F	F	4
9 8	10 8	11 3	11 2	10 9	u9 6s	8 1	u6 7w	F	F	F	u5 3F	5
14 4	14 8	14 6	14 1	13 4	12 6	u11 3R	u11 2F	F	F	u10 4F	F	6
13 1	13 5	13 4	u12 8s	12 0	10 8	u9 5s	8 7	F	F	F	u 9 0F	7
12 4	11 8	11 5	10 9	10 4	9 9	u9 9s	u9 3s	F	F	F	F	8
13 4	12 7	12 8	12 9	12 3	11 7	10 7	8 8	F	F	u8 6F	F	9
12 2	11 8	11 7	11 5	11 0	10 5	u9 6s	8 3	F	F	F	F	10
12 4	11 8	11 5	11 4	11 5	11 6	11 2	10 3	10 0	10 7	F	u9 3s	11
u13 0R	12 8	12 7	12 2	11 4	u11 0s	10 8	10 1	9 5	9 3	u9 3s	F	12
13 8	13 9	13 9	u13 6R	u12 8R	u11 6s	11 0	F	F	11 6	11 4	u11 8s	13
13 0	13 4	13 3	13 1	13 0	u11 8s	11 0H	u10 4HF	F	F	C	F	14
10 1	10 0	9 9	10 0	10 0	u9 8s	u9 8s	u9 4s	8 7F	8 8F	10 3	11 2	15
10 4	10 8	11 0	11 5	11 7s	R	11 0	10 8	11 0	9 9	8 9	F	16
11 3	11 3	11 5	11 8	12 0	u12 0s	11 4	9 8	F	u9 8F	u10 4R	10 0F	17
13 8R	13 8R	14 0	14 4	14 4	14 0	13 3	u11 8s	F	F	F	F	18
u15 2R	14 8	u14 2R	14 0	13 6	u13 0R	u11 2SR	u10 6W	u9 5s	9 0	u9 2s	u11 2R	19
11 2	10 8	10 8	10 6	9 8	u9 7s	u9 2s	u8 2R	J7 3F	J7 4R	u7 3SF	J7 8s	20
12 0	11 9	11 9	12 2	u11 8s	11 2	u10 2s	10 4	J10 3R	9 0	u9 4s	u9 4s	21
11 8	12 0	12 2	12 5	12 8	u12 6s	u11 8s	10 4	F	F	F	F	22
11 3	11 1	11 0	11 6	12 4	J11 8R	u11 6s	J10 0R	u9 0F	9 0F	u10 2s	u10 5s	23
11 4	11 8	11 9	12 0	12 7	12 8	u12 8R	J12 0R	11 0F	10 4F	J10 2R	F	24
10 5	10 3	10 2	10 5	10 2	u10 2s	10 0	8 8	u7 4SF	J7 4SF	J7 2s	u7 8F	25
11 7	10 8	10 8	10 8	11 0	10 6	u9 5s	8 4	u8 8F	u9 4s	10 6	u9 7s	26
11 9	11 8	11 3	C	C	10 0	10 2	10 0	10 4	10 4	10 4	J10 4R	27
11 1	10 9	10 4	10 2	10 1	u9 8s	9 4	8 4	u8 6F	u8 8F	F	u9 4s	28
11 0	10 7	10 6	10 8	10 8	10 8	u10 3s	9 3	FS	10 6	F	u9 8s	29
9 6	10 0R	10 7	11 0	11 6	11 8	11 6	10 9	10 8	10 8	10 6	10 4	30
11 1	11 6	12 2	12 6	12 8	13 1	12 8	11 2	J9 0F	J9 6F	u9 6F	F	31
12 0	12 0	12 0	12 0	11 8	11 3	10 7	9 8	u9 4	9 6	u9 7	u9 7	Mean
11 8	11 8	11 6	11 7	11 6	11 1	10 7	10 0	u9 5	9 5	u10 2	u9 8	Median
31	31	31	30	30	30	31	29	17	20	20	19	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic · fo F2
 Unit Mc
 Month December 1958

TABLE 56—Contd
 Ionospheric Data
 75°0' E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	U9 5F	U9 0F	7 8	6 4	4 6	8 8	11 1	11 6	11 3	10 9	10 9
2	F	F	8 4F	7 8	7 2	5 8	U9 2S	11 8	13 1	13 1	12 6	12 6
3	10 8	U10 3S	10 1	10 6	9 8	10 2	10 7	12 4	13 0	13 0	11 6	11 2
4	10 7	10 2	10 0	8 6	6 5	4 9H	U9 2S	12 0	13 5	14 5	14 7	15 0
5	U11 6S	U11 7S	11 2	10 8	U9 3S	U9 2S	9 0	8 8	9 0	8 8	U8.0W	9 1
6	U6 4F	U6 8F	U5 7F	5 7F	4 9F	4 3H	8 3	10 8	12 2	13 5	14 2	14 3
7	U8 6F	U8 3F	8 3	U7 2S	4 8	U4 6F	8 6	10 7	12 2	12 7	12 7	13 1
8	9 3	9 7	8 3	7 3	F	5 4	9 5	12 2	13 1	13 2	12 8	12 7
9	9 2	F	U7 6S	8 1	7 8	U7 1S	10 6	12 8	14 2	14 4	14 0	13 7
10	F	8 8	8 9	8 5	7 6	5 0	8 8	11 9	13 6	13 6	U13 OR	12 4
11	F	F	F	U6 9S	4 5	3 1	8 3	11 4	12 6	13 0	12 5	12 3
12	F	F	F	6 8	6 0	5 4	8 9	11 7	13 2	13 4	13 3	13 4
13	F	F	F	F	7 8	5 7	8 8	11 5	13 2	14 1	13 8	13 6
14	11 3	12 1	U10 2S	U9 6S	8 4F	J8 1F	7 8	10 7	U12 OR	12 8	13 6	13 1
15	U10 4F	10 8	11 3	12 1	10 4	8 6	9 8	11 0H	10 9	11 0	10 7	10 4
16	U9 8S	F	U9 2S	8 2	6 2	4 7	8 0	10 9	12 0	U11 6R	10 5	10 5
17	10 7	10 6	U9 6S	8 7	8 2	U7 2S	9 4S	12 2	12 9	12 8R	11 8	11 3
18	9 6	10 8	9 6SF	8 9	10 6	9 4S	9 3	11 6	12 4	13 5R	13 2	13 5J
19	F	F	F	F	U9 2FS	F	FS	13 2	U14 4F	15 0	J14 3R	14 8
20	10 6	U9 2S	U9 5S	U9 5S	U9 2S	6 4	8 4	11 3	12 5	U12 6R	11 8	11 4
21	8 3	7 6	U7 0S	6 5	U7 2S	6 8	9 4	U11 8S	13 0	12 6	12 0	12 0
22	U9 6S	U9 4S	U9 2S	8 6	8 2	J6 3S	8 6	11 8	13 0	J13 2R	U12 4R	11 4
23	F	F	F	U9 0F	8 8	U8 2R	9 6	12 7	13 4	U13 OR	11 5	U11 OR
24	U9 2S	U10 0S	U9 8S	U9 2S	8 5	5 2	8 3	U11 6S	12 8	13 0	12 0	11 4
25	F	F	U7 6F	7 0	5 6	4 0	7 6	10 4	11 6	11 6	10 9	10 6
26	F	U7 1F	F	F	U6 5F	4 8	8 3	11 2	12 7	13 6	13 8	12 5
27	U9 5S	U9 1S	8 4	J7 4S	6 4	U6 9F	J9 6S	12 1	13 1	13 2	12 6	11 8
28	9 0	8 6	8 5	8 1	6 1	3 1	7 7	11 0	12 2	12 1	11 5	11 3
29	8 2F	J7 4F	U7 3F	7 8	7 5	5 3	8 8	11 5	12 8	13 1	J12 1R	11 0
30	U9 5S	U9 1S	8 7	9 0	7 9	U7 2S	U9 1S	11 6	12 2	11 0	10 6	9 8
31	9 8	9 1	8 5	8 8	8 3	6 5	9 1	12 0	12 6	12 9	11 8	11 2
Mean	9 6	U9 4	8 9	8 4	7 5	6 1	8 9	11 5	12 6	12 8	12 3	12 0
Median	9 6	U9 3	8 9	8 4	7 6	5 8	8 8	11 6	12 8	13 0	12 4	11 8
Count	21	22	25	28	30	30	30	31	31	31	31	31

Sweep, 1 Mc to 25 Mc in 27 seconds

Characteristic fo F2
 Unit Mc
 Month December 1958

TABLE 56—Contd
 Ionospheric Data
 75 ° E Mean Time

Latitude 10 2° N
 Longitude : 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11 2	11 2	11 0	11 0	11 0	U10 2S	U9 5S	F	F	F	8 8	F	1
12 6	12 6	12 4	11 8	U10 8W	U9 9S	U10 1F	U9 5F	F	11 2	11 7	11 2	2
11 3	11 6	11 5	10 9	10 6	U10 1S	9 7	8 8	U9 0F	U9 6S	10 6F	10 8	3
14 7	14 6	14 6	14 7	14 4	13 3H	11 6F	U10 5F	F	F	F	F	4
10 3	11 1	11 4	11 0	10 6	8 8	U7 1S	U5 9F	F	F	F	U5 7F	5
15 0	14 7	14 5	13 7	U13 0R	U12 5H	11 3	U11 3FH	U10 7F	U10 6F	F	U8 8F	6
13 3	13 5	13 2	12 4	11 4	10 4	U9 3S	8 4	F	F	F	F	7
12 2	11 5	11 1	10 7	U10 2S	U10 0S	9 4	F	F	F	U8 6F	U8 9F	8
13 0	12 6	13 0	12 6	12 0	11 3	9 6	F	F	8 8	F	F	9
12 0	11 7	11 7	11 4	11 0	U10 3S	9 4	F	F	F	F	F	10
12 2	11 7	11 4	11 5	11 4	11 4	10 8	10 1	10 3	10 6	9 4	F	11
13 0	12 8	12 4	U11 8S	11 1	10 8	10 5	U9 7S	9 0	U9 4S	9 2	F	12
13 7	13 9	13 8	U13 4R	U12 5R	11 2	10 2	F	F	U11 4S	U11 6S	U11 4S	13
13 3	13 4	13 2	13 3	12 8	U10 0S	F	F	F	F	F	F	14
10 1	10 0	10 0	10 0	10 0	U9 8S	U9 9S	9 0	U8 8F	U9 5S	11 3	10 9	15
10 6	10 8	11 3	11 6	11 7S	U11 4R	10 8	10 8	10 6	9 1S	9 0	9 0F	16
11 3	11 3	11 6	12 0	12 0	U11 8S	10 8	R	9 0F	10 6	FS	U10 1F	17
13 8	14 0	14 3	14 4	14 2	13 8	R	U10 9R	F	F	F	F	18
U15 2R	14 4	14 0	13 8	U13 0R	U11 8S	J11 2RH	U9 2S	9 2	8 8	10 6	U10 8R	19
11 0	10 8	10 7	10 1	9 7	U9 6S	8 8	J8 2R	F	F	U7 7S	J7 4R	20
12 2	11 9	12 2	U12 4S	U11 5S	10 7	J10 3R	U10 0SR	U9 2SR	8 8	U9 6S	U9 8S	21
11 8	12 0	12 4	12 6	12 6	J12 2R	U11 2R	F	F	F	F	F	22
U11 2R	11 0	11 3	11 8	J12 2R	U11 8S	11 2	U9 5SF	U9 0F	U9 4S	J10 2R	J10 3R	23
11 6	11 8	11 9	12 4	12 8	13 0	12 8	11 4	11 0	J10 4HR	F	F	24
10 4	10 4	10 4	10 4	U10 3S	U10 0S	U9 6S	U8 0F	U7 0F	J7 6R	F	J7 4F	25
11 3	10 8	10 8	11 0	10 8	10 5	9 2	8 4	9 2	10 8	U9 7S	U9 6S	26
11 8	11 6	11 0	C	C	10 2	10 0	J10 2R	10 2	10 0	10 3	J10 2R	27
11 2	10 8	10 2	10 2	9 9	U9 6S	8 8	8 2F	U8 5F	F	F	U9 2S	28
10 8	10 6	10 7	10 7	10 9	10 5	U9 8F	FS	J10 0F	U10 9R	F	U9 2S	29
9 8	10 4	11 1	11 6	U12 0S	12 0	11 3	10 6	10 7	10 8	10 6	10 5	30
11 0	11 6	12 4	12 7	13 0	13 0	12 2	U9 7F	F	J9 4F	F	F	31
12 0	12 0	12 0	11 9	11 6	11 0	10 2	U9 5	9 5	9 9	9 9	9 5	Mean
11 8	11 6	11 6	11 8	11 4	10 7	10 1	U9 6	9 2	10 2	10 0	9 8	Median
31	31	31	30	30	31	29	22	17	20	16	19	Count

Sweep 1 Mc to 25 Mc. in 27 seconds.

Characteristic fo F1
 Unit : Mc
 Month December 1958

TABLE 57
 Ionospheric Data
 75°0' E Mean Time

Latitude : 10 2° N
 Longitude . 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	LH	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	LH	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo F1
 Unit · Mc
 Month December 1958

TABLE 57
 Ionospheric Data
 75°0' E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
B	L	L	L	L								12
L	L	L	L	L								13
LH	L	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
LH	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic · fo F1
 Unit Mc
 Month December 1958

TABLE 57—(Concl'd)
 Ionospheric Data
 75°0' E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4							L	L	L	L	L	L
5							L	L	L	L	L	L
6								L	L	L	L	L
7							L	L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								B	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15							L	L	L	L	LH	L
16								L	L	L	LH	L
17								L	L	L	L	LH
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26							L	L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	L
29							L	L	L	L	L	L
30							L	L	L	L	L	L
31							L	L	L	L	L	L
Mean												
Median												
Count												

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic fo F1
 Unit Mc
 Month December 1958

TABLE 57—(Concl'd)
 Ionospheric Data
 75°0' E Mean Time

Latitude 10°2' N
 Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L									1
L	L	L	L									2
L	L	L	L									3
L	L	L	L	L								4
L	L	L	L	L								5
												6
L	L	L	L	..								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
LH	LH	L	L	L								14
L	L	L	L	L								15
												16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
												21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
												26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo E
Unit : Mc
Month . December 1958

TABLE 58
Ionospheric Data
75 0° E Mean Time

Latitude 10° 2' N
Longitude 77 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2								3 0	A	A	A	A
3								2 9	3 4	A	A	A
4								2 8	3 3	A	A	A
5								A	A	A	A	A
6								2 9H	3 6H	4 0	A	4 2
7								A	A	A	A	A
8								2 8II	U3 6A	A	A	A
9								U2 9R	3 7	A	A	A
10								2 8II	A	A	A	A
11								A	A	A	A	A
12								2 8R	3 4	A	A	A
13								2 8	U3 4R	R	A	A
14								A	A	A	B	A
15								A	A	A	A	A
16								A	A	A	A	A
17								2 7	3 2A	A	A	A
18								2 4IR	3 1	B	A	A
19								U2 7H	3 2II	U3 5R	A	A
20								A	A	A	A	A
21								U2 7AR	A	A	A	A
22								U2 8F	U3 2R	A	A	B
23								2 7H	A	A	A	B
24								2 6H	A	A	A	A
25								A	A	A	A	A
26								2 7	3 0	A	A	A
27								2 4	A	A	A	A
28								2 5	A	A	A	A
29								2 6	A	A	A	A
30								2 6H	A	A	A	A
31								2 6	A	A	A	A
Mean								2 7	3 3			
Median								2 7	3 4			
Count								22	12	2		

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic fo E
 Unit Mc
 Month December 1958

TABLE 58
 Ionospheric Data
 75°0' E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A								1
A	A	A	A	A								2
A	A	A	A	A								3
A	A	A	3 6	A	2 5							4
A	A	A	A	A								5
A	4 0	A	A	A								6
A	A	A	A	A	R							7
A	A	A	A	A	A							8
A	A	A	A	A	A							9
A	A	A	A	A	A							10
A	A	A	A	A	A							11
B	A	A	A	A	A							12
A	A	A	A	A	U2'3R							13
U4 0A	U4 0R	U3 9A	A	A								14
A	A	A	A	A								15
U4 0A	A	A	A	A								16
A	A	U3 7A	A	A								17
A	A	B	3 4	A								18
A	A	A	A	A								19
A	A	A	A	B	A							20
A	A	A	A	A	A							21
B	A	A	A	A	A							22
B	B	A	U3 6A	A	A							23
A	A	A	A	U3 1R	U2 5HR							24
A	A	A	A	A	A							25
A	A	A	A	A	A							26
A	A	A	A	C								27
A	A	A	A	A	A							28
A	A	A	A	U3 1A	A							29
A	A	A	3 5	A	A							30
A	A	U3 6A	3 6	3 2	A							31
			3 5									Mean
			3 6									Median
2	2	3	5	3	3							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic · fo E
Unit Mc
Month December 1958

TABLE 58—(Contd.)
Ionospheric Data
75°0' E Mean Time

Latitude 10 2° N
Longitude · 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							A	A	A	A	A	A
2							2 5H	A	3 9	A	A	A
3							U2 5R	3 2	A	A	A	A
4								3 0	3 4	A	4 0	A
5								A	A	A	A	A
6							2 4	3 2H	3 7	R	4 2	A
7							U2 3R	A	A	A	A	A
8							U2 4R	3 1	A	A	A	A
9							U2 4R	3 3	3 8	A	A	A
10							R	3 2	A	A	A	A
11							2 5H	A	A	A	A	A
12							U2 3R	B	A	A	B	A
13								U3 0A	U3 7R	A	A	A
14							R	A	A	A	U4 0A	U4 0A
15							F	A	A	A	A	B
16							U2 4R	U3 3A	A	A	A	U3 9A
17							R	3 1R	A	A	A	A
18							2 2	2 9HR	R	A	A	A
19								U3 OHR	U3 4R	A	A	A
20							2 2	A	A	A	A	A
21							2 2	A	A	A	A	B
22							U2 2R	3 0	A	A	A	B
23							2 1	A	A	A	A	B
24								U3 OHR	A	A	A	A
25							2 2H	A	A	A	A	A
26							2 2	2 9	3 3	A	A	A
27							2 2H	2 8	A	A	A	A
28							2 2	A	A	A	A	A
29							2 1	3 0	A	A	A	A
30							2 1	3 0	A	A	A	A
31							U2 1R	3 0	A	A	A	A
Mean							2 3	3 0	3 6			
Median .							2 2	3 0	3 7			
Count							21	18	7		3	2

Sweep 1 Mc to 25 Mc. in 27 seconds

Characteristic fo E
Unit Mc
Month December 1958

TABLE 58—(Contd)
Ionospheric Data
75°0' E Mean Time

Latitude 10 2° N
Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A								1
A	A	B	A	A								2
B	A	A	A	A								3
A	A	A	3 3	A								4
A	A	A	A	A								5
R	3 9	A	A	A								6
B	A	A	A	A								7
A	A	A	A	A								8
A	A	A	A	A								9
A	A	A	A	A								10
A	A	A	A	A								11
B	A	A	A	A								12
A	A	A	A	U2 8A								13
U4 OR	A	A	A	A								14
A	A	A	A	F								15
A	A	A	A	A	.							16
A	A	A	A	A	.							17
A	A	B	A	A	.							18
A	A	A	A	A	.							19
A	A	A	A	B	.							20
A	A	A	A	A								21
B	A	A	A	A								22
B	B	A	U3 5A	A	.							23
A	A	A	U3 4A	U2 8HR	.							24
A	A	A	A	A	U2 OR							25
A	A	A	A	A								26
A	A	A	C	C								27
A	A	A	A	A								28
A	A	A	A	A								29
A	A	A	3 4	A								30
A	A	3 6	3 4	3 0								31
			3 4									Mean
			3 4									Median
I	I	I	5	3	I							Count

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic fo Es
Unit Mc
Month December 1958

TABLE 59
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								7 7	10 2	11 0	12 0	12 0
2	4 1							G	9 3	11 0	11 8	12 0
3								G	8 0	11 0	11 6	11 8
4						4 6		G	G	8 4	10 0	10 6
5	u6 os	u7 8s			5 4			9 6	8 8	9 8	11 0	11 0
6								G	G	G	6 6	3 9
7								7 3	8 6	10 2	10 8	10 7
8								G	7 6	10 1	11 6	11 2
9								G	8 4	10 2	11 2	11 1
10							3 4	G	6 8	9 8	10 6	11 1
11								6 8	9 0	9 4	10 8	10 9
12								G	6 9	9 8	11 1	11 3
13								G	G	G	11 2	11 0
14						2 2		7 0	9 0	10 4	G	11 0
15			2 2					6 8	9 0	10 0	11 2	11 0
16								7 0	10 4	11 0	11 0	11 4
17								G	8 2	9 6	10 2	11 0
18								G	G	G	9 0	7 2
19								G	3 4	G	9 8	8 6
20								3 4	8 3	8 4	11 0	11 2
21								6 6	8 6	9 8	11 0	10 8
22								G	G	10 8	12 0	11 0
23								G	8 6	10 4	11 6	B
24					3 5			G	7 0	9 8	11 6	12 0
25								7 0	8 8	10 8	11 6	12 0
26								G	G	8 4	10 6	10 6
27		3 7						G	6 8	8 8	11 0	10 2
28								G	7 7	9 8	10 8	11 2
29								G	6 8	9 6	11 8	11 4
30								G	8 4	8 8	10 8	10 8
31								G	8 2	9 4	11 2	11 6
Mean								6 9	7 7	9 9	10 9	10 7
Median								G	8 2	9 8	11 0	11 0
Count	2	2	1		2	2	1	31	31	31	31	30

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic . fo Es
Unit . Mc
Month December 1958

TABLE 59
Ionospheric Data
75 ° E Mean Time

Latitude : 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12 0	11 6	11 8	11 0	8 8								1
11 6	11 8	10 8	10 0	8 4								2
11 4	11 0	11 0	10 8	8 4								3
9 4	11 0	9 8	5 4	5 0	G			2 8			8 6	4
10 7	10 8	10 8	10 8	8 7								5
10 0	5 8	9 8	9 6	8 7								6
10 5	11 2	11 4	10 8	8 6	G							7
11 3	10 8	10 6	10 6	8 8	2 6							8
11 2	10 4	10 0	10 3	8 0	5 6							9
11 0	11 0	9 8	10 4	8 6	U7 4 ^S							10
11 0	11 8	11 2	11 2	10 6					3 2	3 3	2 8	11
B	11 2	11 0	9 7	8 6	U6 6 ^S							12
11 0	11 2	11 0	10 6	8 2	G						3 0	13
11 0	9 6	7 2	10 4	8 0	4 4							14
11 0	11 0	11 0	10 0	8 2	3 0							15
11 6	11 0	10 4	9 0	7 0	6 4							16
11 0	11 0	11 0	8 6	8 4	6 2				2 4			17
9 2	8 4	8 0	6 4	7 6								18
10 8	12 6	8 6	10 0	9 2	8 0							19
11 4	10 6	11 0	11 0	8 6	8 0							20
10 4	10 0	11 0	10 0	8 6	S							21
11 6	11 2	9 8	7 8	8 4	S							22
B	11 0	11 0	7 0	7 8	S				U6 0 ^S			23
12 0	11 1	11 0	8 4	G	G							24
12 0	12 0	12 0	11 4	8 6	S							25
10 8	10 8	10 6	9 6	7 6	6 6							26
10 8	11 0	11 2	C	C	3 2	1 9						27
11 2	11 0	10 4	9 4	8 8	U6 0 ^S							28
11 6	11 2	10 5	9 0	6 7	U6 2 ^S			2 6				29
10 8	10 8	10 6	6 2	7 8	5 5			1 9				30
11 0	9 8	7 0	5 8	G	S							31
11 0	10 8	10 4	9 4	8 2	5 7							Mean
11 0	11 0	10 8	10 0	8 4	5 6	.						Median
29	31	31	30	30	19	1	..	3	3	1	3	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic · fo Es
Unit Mc
Month December 1958

TABLE 59 (Contd.)
Ionospheric Data
75.0° E Mean Time

Latitude · 10 2° N
Longitude · 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							7 8	8 8	10 0	12 0	12 0	12 0
2	4 3						G	8 2	9 6	11 8	11 1	12 0
3							G	G	10 0	11 8	11 6	11 8
4								8 2	8 4	8 8	8 8	11 6
5	U5 os	2 4			2 5			8 4	10 6	11 0	11 0	10 8
6							G	G	G	G	G	4 2
7							G	7 8	9 3	10 4	11 0	10 6
8							G	6 8	9 4	11 1	11 4	11 6
9							4 6	G	8 9	10 9	11 3	11 6
10			3 6				G	G	8 6	11 2	11 4	12 0
11							G	8 5	10 2	10 6	11 2	11 6
12							G	B	8 7	10 6	11 0	11 5
13								G	G	8 8	11 0	11 2
14						2 8	G	8 6	8 6	11 0	11 0	10 6
15							G	8 0	9 8	11 4	11 0	10 4
16							G	8 8	10 6	11 0	11 8	11 8
17							G	G	9 2	11 0	11 6	11 2
18							G	G	9 4	8 0	8 0	8 2
19								3 2	6 0	9 0	9 2	10 0
20							G	3 7	8 2	11 2	11 0	10 8
21							G	U7 4s	9 3	11 0	11 2	9 0
22							G	G	9 4	11 6	11 8	11 2
23					2 8		G	5 4	10 4	11 8	11 0	B
24							G	G	9 6	11 0	12 0	12 2
25							G	8 4	9 8	11 4	11 4	11 8
26							G	G	G	9 2	10 6	11 2
27		2 4					G	G	6 8	10 0	10 8	10 1
28							G	G	6 8	8 8	10 8	11 2
29							G	G	9 8	11 0	11 7	11 8
30							G	6 6	9 0	10 8	10 6	10 6
31							G	G	8 8	11 2	11 7	11 2
Mean								7 3	9 2	10 7	11 0	10 9
Median							G	5 0	9 3	11 0	11 0	11 2
Count	2	2	1	1	1	1	26	30	31	31	31	30

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic fo Es

TABLE 59 (Contd.)

Latitude : 10 2° N

Unit Mc.

Ionospheric Data

Longitude : 77 5° E

Month December 1958

75 0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11 6	11 6	10 8	9 8	8 2							2 3	1
12 0	12 0	B	8 8	6 6								2
11 2	10 4	11 4	8 7	7 8								3
11 4	8 2	9 4	9 8	5 4						U5 8s	9 8	4
10 6	10 5	10 8	8 7	7 6								5
G	8 4	10 6	8 6	7 6								6
11 0	11 3	11 0	10 3	7 7								7
11 2	11 1	10 3	9 2	8 0								8
11 6	9 1	10 8	8 4	6 8								9
11 4	10 4	10 1	8 8	8 3								10
11 4	11 2	11 3	8 8	4 4						U6 4s		11
10 8	11 3	10 6	8 6	8 0								12
11 2	11 4	10 8	8 4	6 6								13
10 4	7 4	8 0	7 8	8 6								14
11 0	10 8	10 4	8 2	8 0								15
11 2	11 0	10 0	8 4	7 0								16
11 0	11 0	10 0	8 2	7 0								17
8 8	8 0	G	6 8	7 0								18
12 0	8 4	10 0	8 8	8 2								19
10 0	11 0	10 8	9 0	8 0								20
10 0	10 4	10 8	8 4	8 6								21
11 6	11 0	9 4	7 6	8 0								22
10 6	11 0	8 4	7 6	7 8								23
11 0	11 0	10 0	6 4	G						2 4 5 8 2 3		24
12 0	12 0	11 6	9 4	7 4	G							25
11 0	10 6	10 2	7 8	7 6								26
10 2	11 4	11 0	C	C	3 5							27
10 8	11 0	10 8	9 2	7 8								28
11 2	10 8	10 6	8 4	7 8								29
10 3	10 8	8 6	G	6 8	2 6		1 7	2 1				30
10 8	8 4	6 3	G	5 6								31
11 0	10 4	10 2	8 5	7 4	.		.					Mean
11 0	11 0	10 5	8 5	7 6			..					Median
31	31	30	30	30	3		1	1	3	2	2	Count

Sweep 1 Mc. to 25 Mc. in 27 Seconds.

Characteristic fb Es
Unit Mc.
Month December 1958

TABLE 60
Ionospheric Data
75.0° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3 1	3 6	4 0	4 2	4 6
2	2 4								3 7	4 2	4 4	4 4
3						2 3			3 5	4 0	4 3	4 5
4									4 0	4 0	4 3	4 7
5		2 9			1 8			3 0	3 5	3 9	4 2	4 3
6											4 3	.
7								2 8	3 5	4 1	4 0	4 5
8									3 4	4 0	4 3	4 5
9								2 3	3 5	4 1	4 4	4 4
10									3 4	4 0	4 1	4 4
11								2 8	3 4	3 8	4 2	4 5
12									3 4	4 0	4 2	4 4
13											4 2	4 3
14						2 0		2 8	3 5	4 0		4 3
15								2 7	3 4	3 8	4 0	4 4
16								2 8	3 4	3 9	4 2	4 3
17								.	3 4	3 8	4 0	4 2
18											4 2	4 4
19									3 2		4 0	4 2
20								2 8	3 2	3 8	3 8	4 0
21								2 8	3 3	3 8	4 0	4 1
22									3 8	3 8	4 4	.
23					2 2				3 4	4 0	4 0	
24									3 2	3 6	4 0	4 4
25								2 7	3 4	3 8	4 0	4 2
26										3 7	4 0	4 3
27		2 4							3 2	3 8	4 0	4 2
28									3 2	3 8	4 1	4 2
29									3 4	4 0	4 1	4 3
30									3 2	3 7	4 2	4 2
31									3 2	3 8	4 1	4 2
Mean								2 8	3 4	3 9	4 1	4 3
Median	.					.		2 8	3 4	3 9	4 2	4 3
Count	1	2			2	2	1	10	25	27	30	28

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic · fb Es
 Unit Mc
 Month December 1958

TABLE 60
 Ionospheric Data
 75.0° E Mean Time

Latitude · 10.2° N
 Longitude 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Days
4 7	4 4	4 1	3 6	3 1								1
4 5	4 5	4 1	3 9	3 2								2
4 3	4 5	4 0	3 9	3 2								3
4 5	4 4	4 1	4 2	4 2				2 0			2 6	4
4 5	4 4	4 0	3 7	3 2								5
4 6	4 3	4 0	3 6	3 2								6
4 5	4 5	4 0	3 7	3 4								7
4 4	4 3	4 0	3 8	3 2	2 4							8
4 3	4 3	4 0	3 6	3 2	2 4							9
4 3	4 5	4 0	3 7	3 0	2 4							10
4 6	4 4	4 0	3 7	5 0							2 1	11
	4 3	4 0	3 6	3 3	2 3							12
4 3	4 2	4 0	3 6	3 2							1 9	13
4 3	4 3	4 0	4 2	3 2	2 4							14
4 2	4 2	4 0	3 6	3 1								15
4 2	4 2	4 0	3 5	3 1	2 4							16
4 4	4 2	4 0	3 6	3 2								17
4 2	4 2	4 0	3 7	3 0								18
5 0	5 4	3 8	3 6	3 1	2 5							19
4 2	4 2	4 0	3 7									20
4 3	4 0	4 0	3 6	3 2	2 6							21
	4 4	4 4	3 8	3 2	2 6							22
	.	4 2	3 8	3 2	2 4							23
4 2	4 2	4 0	3 7									24
4 2	4 2	4 0	3 8	3 2	2 5				2 2			25
4 2	4 1	4 0	3 6	3 2	2 5							26
4 2	4 2	4 0	C	C	2 5							27
4 3	4 2	4 0	3 6	3 1	2 4							28
4 2	4 4	4 0	3 6	3 2	2 5			2 0				29
4 2	4 2	4 0	3 6	3 6	2 8							30
4 4	4 1	4 0			2 6							31
4 3	4 3	4 0	3 7	3 3	2 5					.	.	Median
4 3	4 3	4 0	3 7	3 2	2 5					.	.	Mean
28	30	31	29	27	17			2	1		3	Count

Sweep in 1 Mc. to 25 Mc. in 27 Seconds

Characteristic fb Es
Unit Mc
Month December 1958

TABLE 60 (Contd)
Ionospheric Data
75 ° E Mean Time

Latitude . 10° 2' N
Longitude : 77° 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2 6	3 3	3 9	4 1	4 4	4 6
2	2 2							3 2	4 0	4 3	4 5	4 5
3									3 7	4 0	4 4	4 3
4								3 1	3 8	4 2	4 4	6 4
5	2 4				2 0			3 1	3 8	4 0	4 4	4 5
6												4 2
7								3 3	3 8	4 2	4 2	4 3
8								3 1	3 6	4 1	4 3	4 4
9									3 8	4 1	4 4	4 4
10								2 5	3 6	4 0	4 3	4 4
11								3 1	3 7	4 2	4 3	4 4
12									3 9	4 1	4 6	4 4
13										4 0	4 3	4 3
14							1 8	3 1	3 8	4 0	4 4	4 2
15								3 0	3 6	3 9	4 2	
16								3 2	3 8	4 1	4 2	4 3
17									3 7	4 0	4 2	4 2
18									3 6	3 8	4 0	4 2
19									3 0	3 8	4 2	4 6
20									3 0	3 4	3 8	4 2
21												
22								3 0	3 6	3 9	4 0	
23					1 8				3 6	4 2	4 3	
24								3 0	3 6	4 0	4 2	
25									3 6	4 0	4 0	4 2
26									3 6	3 9	4 2	4 2
27		1 8								4 0	4 1	4 4
28									3 6	4 0	4 2	4 2
29								3 0	3 5	4 0	4 1	4 2
30									3 7	4 0	4 2	4 2
31								3 0	3 6	4 0	4 2	4 2
31									3 6	4 0	4 2	4 4
Mean								3 1	3 7	4 0	4 2	4 4
Median								3 1	3 6	4 0	4 2	4 3
Count	2	1		1	1	1	2	17	28	30	30	27

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fb Es
 Unit Mc
 Month December 1958

TABLE 60 (Contd)
 Ionospheric Data
 75.0° E Mean Time

Latitude · 10 2° N
 Longitude · 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4 5	4 3	3 8	3 4	2 8							1 8	1
4 4	4 2		3 7	2 8								2
	4 2	3 8	3 4	2 8								3
4 6	4 2	4 0	6 1	4 2						2 6	3 5	4
4 5	4 3	4 2	3 5	2 8								5
.												6
4 5	4 3	4 0	3 5	2 9								7
4 3	4 2	4 2	3 5	2 8								8
4 3	4 2	3 8	3 5	2 8								9
4 4	4 2	3 9	3 4	2 9								10
4 6	4 3	3 8	3 7	4 1						2 2		11
	4 2	3 9	3 4	2 8								12
4 3	4 2	3 8	3 4	2 8								13
4 3	4 4	3 8	3 6	2 8								14
4 2	4 0	3 8	3 4	2 8								15
4 4	4 0	3 8	3 2	2 8								16
4 2	4 1	3 9	3 4	2 8								17
4 2	4 1		3 5	2 8								18
6 0	3 9	3 6	3 5	2 8								19
4 2	4 1	3 8	3 6	.								20
4 0	4 0	3 8	3 2	2 8								21
	4 3	4 0	3 6	3 0					2 0			22
.		3 9	3 6	2 9					2 1			23
4 3	4 1	3 9	3 6	.					1 5			24
4 2	4 1	3 8	3 4	2 8								25
4 3	4 1	3 8	3 5	2 9								26
4 2	4 1	4 4	C	C	2 0							27
4 2	4 0	3 8	3 4	2 8								28
4 2	4 1	3 8	3 5	2 9								29
4 4	4 0	3 9		3 2	2 4			1 6				30
4 2	4 0		.	.								31
4 4	4 2	3 9	3 6	2 9		..			.			Mean
4 3	4 2	3 8	3 5	2 8								Median
26	30	28	28	27	2		.	1	3	2	2	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic - f min
Unit - Mc
Month December 1958

TABLE 61
Ionospheric Data
75.0° E Mean Time

Latitude 10.2° N
Longitude . 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2 2	1 6	1 4	1 7	1 5	1 8	2 0	1 9	2 4	2 6	2 8	3 2
2	1 8	1 7	1 8	1 8	1 8	1 6	2 0	2 2	2 8	3 2	3 4	3 5
3	1 7	1 5	1 3	1 6	1 4	1 3	1 9	2 2	2 3	3 0	3 2	3 0
4	1 7	2 1	1 9	1 6	1 6	1 6	2 0	2 2	2 6	2 7	3 0	2 9
5	1 8	1 8	2 2	2 2	1 4	1 8	2 0	2 0	2 4	2 6	3 0	3 1
6	1 9	1 4	1 9	1 8	1 4	1 6	1 9	2 1	3 0	3 2	3 0	3 0
7	1 6	1 5	1 9	1 7	1 7	1 6	1 9	2 2	2 5	2 7	2 7	3 1
8	1 5	1 7	1 5	1 5	1 6	1 8	1 9	2 1	2 5	2 6	2 9	3 3
9	1 9	1 6	1 7	1 6	1 6	1 8	2 3	2 2	2 5	3 0	3 1	3 2
10	1 7	1 6	1 8	1 5	1 9	1 6	1 9	2 2	2 5	2 7	2 9	3 0
11	2 1	1 5	1 7	1 4	1 6	1 5	1 9	1 9	2 3	2 6	3 0	3 1
12	2 0	2 0	1 6	1 6	1 4	1 6	1 8	2 2	2 5	3 0	3 2	3 2
13	2 1	1 6	2 0	1 6	1 5	1 6	1 9	2 1	2 7	3 0	3 0	3 2
14	1 9	1 4	1 4	1 7	1 4	1 2	1 8	1 9	2 4	2 6	4 8	3 0
15	2 0	1 9	1 4	1 4	2 2	1 7	1 7	1 8	2 2	2 4	2 7	3 2
16	2 0	1 5	1 5	1 7	1 5	1 5	1 9	2 2	2 4	2 8	3 0	3 0
17	1 3	1 2	1 4	1 4	1 8	1 7	1 9	2 2	2 4	2 6	2 8	2 8
18	1 6	1 7	1 6	1 4	1 5	1 7	1 6	1 7	2 4	3 8	2 9	2 8
19	1 7	2 0	1 5	1 6	1 4	1 6	1 8	2 0	2 2	2 9	2 8	3 0
20	1 6	1 6	1 9	1 6	1 3	1 6	1 7	1 6	2 0	2 4	2 6	2 7
21	1 6	1 3	1 4	1 5	1 7	1 6	1 7	1 9	2 2	2 4	2 8	3 0
22	1 3	1 6	1 3	1 5	1 5	1 4	1 8	1 9	2 4	2 4	3 2	4 9
23	1 6	1 8	1 7	1 6	1 6	2 1	1 8	1 9	2 4	2 6	2 9	6 0
24	1 5	1 4	1 6	1 5	1 6	1 5	1 7	2 2	2 4	2 6	2 8	3 2
25	1 8	1 4	1 6	1 5	1 3	1 8	1 8	1 7	2 0	2 5	2 6	2 8
26	2 1	1 7	1 7	1 9	1 7	1 7	1 7	2 2	2 4	2 7	2 7	3 1
27	1 4	1 7	1 7	1 5	1 5	1 4	1 7	1 9	2 0	2 5	2 6	2 7
28	1 6	1 7	1 7	2 0	1 9	1 8	1 8	1 8	2 1	2 5	2 6	2 7
29	1 5	1 6	1 5	1 6	1 4	1 5	1 7	1 9	2 3	2 6	2 8	2 8
30	1 5	1 4	1 8	1 8	1 7	1 5	1 6	1 7	2 2	2 6	2 8	2 8
31	1 3	1 6	1 6	1 6	1 6	1 7	1 6	2 1	2 2	2 6	2 7	3 0
Mean	1 7	1 6	1 6	1 6	1 6	1 6	1 8	2 0	2 4	2 7	2 9	3 2
Median	1 7	1 6	1 6	1 6	1 6	1 6	1 8	2 0	2 4	2 6	2 9	3 0
Count	31	31	31	31	31	31	31	31	31	31	31	31

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic f_{min}
 Unit . Mc
 Month December 1958

TABLE 61
 Ionospheric Data
 75.0° E Mean Time

Latitude : 10 2° N
 Longitude : 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3 6	3 0	3 0	2 6	2 2	2 5	1 5	1 6	1 9	2 0	1 7	1 8	1
3 4	3 2	3 1	3 1	2 6	2 5	1 5	1 5	2 0	2 0	2 3	2 1	2
3 0	3 5	3 0	3 0	2 4	2 4	1 5	1 6	1 9	1 7	1 7	1 4	3
3 5	3 2	2 9	2 7	3 3	2 2	1 7	1 8	1 1	1 8	2 1	1 8	4
3 1	3 2	2 8	2 6	2 3	2 5	1 5	1 3	1 9	1 8	1 8	2 0	5
3 1	3 5	2 8	2 7	2 4	1 6	1 5	1 7	1 8	1 7	2 1	1 9	6
3 4	3 3	3 0	2 6	3 4	2 2	1 5	1 6	1 7	1 7	1 5	1 7	7
3 0	3 2	2 6	2 6	2 2	2 1	1 8	2 2	2 1	2 0	1 9	2 1	8
3 2	3 3	2 8	2 4	2 2	1 9	1 6	1 9	1 9	1 8	1 9	1 7	9
3 2	3 0	2 6	2 4	2 4	1 9	1 5	1 8	1 9	1 7	1 9	1 8	10
3 6	3 1	3 0	3 0	2 4	2 5	1 5	1 6	1 9	1 3	1 5	1 6	11
7 4	3 2	2 7	2 3	2 7	2 0	1 4	1 5	1 7	1 7	2 0	1 9	12
3 4	3 0	2 7	2 5	2 4	2 0	1 5	1 5	1 8	1 7	1 5	1 4	13
3 0	3 4	2 7	2 3	2 2	1 7	1 5	1 9	1 8	1 6	C	1 9	14
2 8	2 8	2 6	2 2	2 2	2 0	1 1	1 7	1 7	1 8	2 0	1 8	15
3 0	3 0	2 6	2 3	2 2	1 9	1 4	1 6	1 5	1 5	1 4	1 4	16
3 0	3 0	2 6	2 4	2 4	2 2	1 4	1 5	1 5	1 1	1 6	1 6	17
3 0	3 0	3 6	3 0	2 3	2 4	1 4	1 5	1 7	1 8	1 6	1 9	18
3 0	2 6	2 4	2 2	2 4	2 0	1 3	1 6	1 5	1 6	8 5	2 0	19
3 0	3 0	2 8	2 8	4 4	3 0	1 5	1 5	1 7	1 8	1 8	1 8	20
3 0	3 0	2 7	2 4	2 2	2 1	1 4	1 4	1 5	1 7	1 6	1 7	21
4 8	3 4	3 2	2 7	2 5	2 2	1 5	1 5	1 9	1 9	2 0	1 8	22
6 2	4 8	3 4	2 6	2 6	2 2	1 4	1 3	1 5	1 3	2 0	1 6	23
3 1	3 0	2 8	2 7	2 3	2 0	1 3	1 7	1 7	1 4	1 7	1 6	24
2 8	3 4	2 8	2 5	2 2	2 0	1 4	1 7	1 7	1 8	1 8	1 8	25
3 0	2 8	2 6	2 4	2 3	1 9	1 3	1 8	2 0	1 9	1 6	1 6	26
2 9	2 9	2 5	C	C	1 7	1 5	1 5	1 3	1 7	1 5	1 6	27
2 7	2 6	2 6	2 3	2 1	1 7	1 4	1 6	1 9	1 8	1 9	1 8	28
2 7	3 0	2 6	2 3	2 2	1 8	1 4	1 5	1 2	1 4	1 8	1 9	29
2 8	2 7	2 7	2 8	2 5	1 7	1 5	1 7	1 8	1 6	1 6	1 8	30
2 8	2 8	2 6	2 4	2 2	1 8	1 5	1 9	2 0	2 0	1 8	1 8	31
3 4	3 1	2 8	2 6	2 5	2 1	1 5	1 6	1 7	1 7	1 8	1 8	Mean
3 0	3 0	2 7	2 6	2 4	2 0	1 5	1 6	1 8	1 7	1 8	1 8	Median
3 1	3 1	3 1	3 0	3 0	3 1	3 1	3 1	3 1	3 1	3 0	3 1	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic f_{min}
Unit Mc.
Month December 1958

TABLE 61 (Continued)
Ionospheric Data
75.0° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2 0	1 6	1 6	1 7	1 9	1 8	1 7	2 3	2 6	2 8	2 9	3 6
2	1 6	2 0	1 6	1 5	1 6	1 6	2 0	2 5	3 2	3 3	3 7	3 4
3	1 6	1 3	1 4	1 4	1 7	1 7	2 0	2 2	2 6	2 9	3 0	3 0
4	1 9	2 2	1 6	1 7	1 5	1 6	2 5	2 4	3 0	2 9	3 4	3 1
5	2 1	1 8	1 7	1 8	1 6	1 8	2 7	2 1	2 7	2 6	3 2	3 4
6	2 0	1 4	1 6	1 4	1 4	1 6	2 1	2 5	3 1	3 5	4 0	3 1
7	1 4	1 8	1 7	1 8	2 0	1 7	2 0	2 2	2 5	2 8	3 1	3 4
8	1 6	1 4	1 5	1 4	1 6	1 7	2 0	2 2	2 5	2 7	3 0	3 2
9	1 5	1 8	1 6	1 8	1 8	1 7	2 1	2 1	2 8	3 0	3 2	3 3
10	1 6	1 6	1 6	1 6	1 6	1 7	2 0	2 6	2 5	3 0	3 0	3 0
11	1 7	1 6	1 5	1 5	1 6	1 6	2 0	2 2	2 4	3 0	3 0	3 2
12	1 9	1 9	1 6	1 7	1 4	1 6	1 9	4 8	3 0	3 0	4 6	3 1
13	1 6	2 1	1 7	1 6	1 6	1 7	2 1	2 6	3 0	2 8	3 0	3 4
14	1 6	1 5	1 3	1 5	1 5	1 2	1 9	2 2	2 8	2 8	3 4	3 0
15	1 4	1 5	1 6	1 6	1 7	1 7	1 7	2 0	2 3	2 6	2 9	4 2
16	1 7	1 5	1 6	1 5	1 4	1 5	2 0	2 4	2 6	3 2	3 0	3 0
17	1 4	1 6	1 4	1 4	1 5	1 6	1 9	2 2	2 4	2 4	2 6	2 8
18	1 5	1 5	1 3	1 2	1 5	1 7	1 8	2 1	2 3	2 7	3 0	3 0
19	2 0	1 5	1 7	1 4	1 5	1 8	2 3	2 2	2 4	2 8	2 8	3 1
20	1 5	1 5	1 4	1 5	1 4	1 5	1 7	1 7	2 2	2 4	2 8	2 8
21	1 7	1 4	1 3	1 6	1 4	1 7	1 9	2 0	2 2	2 5	2 9	5 0
22	1 4	1 6	1 5	1 7	1 6	1 4	1 8	2 2	2 6	3 4	3 2	4 8
23	1 5	1 5	1 5	1 6	2 0	1 9	1 9	2 2	2 6	2 6	3 0	6 4
24	1 3	1 5	1 4	1 3	1 4	1 6	2 4	2 2	2 4	2 7	2 8	3 0
25	1 4	1 5	1 4	1 4	1 3	1 6	1 8	2 0	2 3	2 4	3 0	2 9
26	1 7	1 9	2 0	1 9	1 6	1 7	1 9	2 0	2 5	2 6	3 0	3 4
27	1 4	1 3	1 4	1 6	1 6	1 9	1 9	2 1	2 3	2 5	2 6	2 7
28	1 4	1 7	1 6	1 9	1 7	1 7	1 9	1 9	2 3	2 7	2 7	2 9
29	2 0	1 4	1 5	1 7	1 5	1 7	1 7	2 0	2 5	2 6	2 6	3 0
30	1 6	1 7	1 5	1 9	1 6	1 7	1 8	2 0	2 4	2 6	2 8	2 8
31	1 3	1 8	1 4	1 5	1 7	1 8	1 9	2 1	2 4	2 6	3 0	2 9
Mean	1 6	1 6	1 5	1 6	1 6	1 7	2 0	2 3	2 6	2 8	3 1	3 4
Median	1 6	1 6	1 5	1 6	1 6	1 7	1 9	2 2	2 5	2 7	3 0	3 1
Count	31	31	31	31	31	31	31	31	31	31	31	31

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic · f min
 Unit , Mc
 Month December 1958

TABLE 61 (Continued)
 Ionospheric Data
 75.0° E Mean Time

Latitude : 10 2° N
 Longitude · 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
33	30	26	25	20	19	16	19	18	20	17	17	1
33	31	50	27	24	18	18	19	17	20	22	18	2
50	31	26	25	19	18	13	15	17	15	20	15	3
38	30	30	28	25	22	17	18	21	20	22	14	4
33	31	33	26	22	19	15	18	19	17	18	18	5
34	30	28	28	23	20	14	17	18	17	17	15	6
39	30	27	23	24	20	24	20	18	18	16	16	7
31	30	29	26	23	18	13	18	19	17	20	18	8
32	30	26	23	20	19	20	19	18	16	18	18	9
30	28	26	24	23	18	19	20	18	19	19	18	10
36	32	28	27	33	18	16	18	18	16	15	22	11
50	28	25	25	21	18	14	13	17	17	19	20	12
32	28	26	24	20	18	15	17	17	14	15	20	13
30	32	26	22	19	19	15	20	18	14	20	19	14
28	26	24	23	22	19	13	15	17	15	17	19	15
30	28	26	23	20	18	16	15	14	14	16	19	16
30	30	25	25	20	20	14	16	16	14	16	16	17
28	28	38	26	22	19	12	16	19	18	17	18	18
27	27	24	24	22	19	19	18	17	19	24	19	19
32	28	25	26	40	20	16	16	19	16	17	16	20
30	29	27	24	23	19	13	14	15	14	16	15	21
46	35	30	26	24	19	14	17	18	14	18	17	22
50	44	30	27	24	20	17	16	15	15	14	15	23
31	29	26	26	20	18	13	18	19	12	17	15	24
26	28	26	24	20	17	12	17	17	17	18	21	25
30	29	26	24	20	20	13	18	17	18	17	16	26
28	27	24	C	C	19	14	16	17	19	16	17	27
28	26	24	23	19	19	15	20	17	22	16	18	28
28	26	25	23	19	20	12	19	16	14	19	18	29
28	30	27	25	20	18	14	16	14	18	16	17	30
28	26	24	25	21	19	16	20	20	18	20	22	31
33	30	28	25	22	19	15	17	17	17	18	18	Mean
31	29	26	25	22	19	15	18	17	17	17	18	Median
31	31	31	30	30	31	31	31	31	31	31	31	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h'F2
 Unit Km
 Month December 1958

TABLE 62
 Ionospheric Data
 75.0° E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	LH	LH	LH	LH
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	LH
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Mean										.		
Median												
Count										.		

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic : h'F2
 Unit : Km.
 Month : December 1958

TABLE 62
 Ionospheric Data
 75° E Mean Time

Latitude : 10 2° N
 Longitude : 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	LH	L	L	L								4
L	LH	L	L	L								5
LH	LH	LH	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L	L							11
B	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L	LH						18
L	u460L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
..	..	.	..	..								Mean
	..	..	..									Median
..	1	.										Count

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic : h'F2
 Unit . Km.
 Month December 1958

TABLE 62 (Continued)
 Ionospheric Data
 75.0° E Mean Time

Latitude . 10.2° N
 Longitude : 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4							L	L	L	L	L	L
5							L	LH	LH	LH	LH	L
6								L	L	L	L	L
7							L	L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								B	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15							L	L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26							L	L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	L
29							L	L	L	L	L	L
30							L	L	L	L	L	L
31							L	L	L	L	L	L
Mean	.											
Median												
Count	.											

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic h'F2
 Unit Km.
 Month December 1958

TABLE 62 (Continued)
 Ionospheric Data
 75.0° E Mean Time

Latitude : 10.2° N
 Longitude : 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L									1
L	L	L	L									2
L	L	L	L									3
L	LH	L	L	L								4
L	LH	L	L									5
LH	LH	LH	L									6
L	L	L	L									7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	LH								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
												Mean
..		..	.									Median
.	.	..		..								Count
.								

Sweep 1 Mc. to 25 Mc. in 27 seconds

Characteristic . h'F

TABLE 63

Latitude 10 2° N

Unit : Km.

Ionospheric Data

Longitude . 77 5° E

Month December 1958

75°0' E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U360F	270F	240	225	220	230	290	255	240	230	230	225
2	U305F	270	270F	245	235	220	270	255	240	230	220	215
3	275	295	275	245	325	255	300	255	240	230	230	215
4	250	245	235	220	220	220	265	245	230	220	220	225
5	260	U280F	300	280	285	290F	315	270	255	240	235	225
6	305	280	275F	U245F	235F	240	300	255	235	230	220	220
7	260	280	280	240	225	230	300	260	245	240	220	220
8	250	245	235	220	240	230	280	250	240	235	220	225
9	260	255	240	260	245	245	260	255	240	230	220	220
10	U385F	260	240	240	220	215	280	260	240	230	220	220
11	350	300	260	240	220	225	300	255	235	220	220	220
12	U300F	280	245	230	225	240	290	260	240	230	220	220
13	355	310	300	250	240	225	260	260	240	230	230	225
14	285	280	260	300	300	U430F	320	260	240	230	U240B	220
15	340	300	280	260	240	220	270	260	240	220	220	210
16	280	290F	245	230	220	230	265	255	240	230	220	210
17	270	275	260	260	240	220	250	250	235	230	220	220
18	230	290	310F	305	310	205	240	260	240	240	230	230
19	360	320	340	260	240	230	240	250	235	220	210H	220
20	260	250	260	240	240	220	250	250	240	220	220	220
21	260	240	245	240	240	225	260	250	240	230	220	220
22	240	250	260	245	230	220	240	240	235	220	220	B
23	305F	280	270	260	260	235	240	245	240	220	215	B
24	240	240	280	260	235	210	260	250	235	220	220	220
25	260	250	220	220	220	220	280	260	240	230	220	220
26	275	275	245	260	240	220	245	250	240	225	220	215
27	235	260	260	240	230	260	280	255	240	225	210H	215
28	240	250	245	240	225	220	270	255	240	230H	220	200
29	240	250	245	265	225	220	260	250	235	235	220	215
30	240	240	275	270	250	225	250	255	240	225	220	210
31	255	270	300	300	230	215	245	250	235	220	205H	210
Mean	280	270	265	250	245	235	270	255	240	230	220	220
Median	260	270	260	245	235	225	265	255	240	230	220	220
Count	31	31	31	31	31	31	31	31	31	31	31	29

Sweep i Mc to 25 Mc in 27 seconds

Characteristic . h'F
Unit Km.
Month December 1958

TABLE 63
Ionospheric Data
75°0' E Mean Time

Latitude . 10 2° N
Longitude : 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
225	220	225	230	245	280	370	U485F	F	F	U375F	U320F	1
220	225	230	240	255	280F	360	U420F	U360F	U310F	265	260	2
210	225	230	245	255	280	350	445	U465F	U375F	320	280	3
215	225	220	240	U270A	300	U390F	F	U380F	U305F	U315F	U310F	4
230	230	235	235	255	300	395	U510F	U520F	U425F	U490F	F	5
215	225	225	235	250	275	350	U430F	U405F	U350F	U305F	U280F	6
220	220	230	240	255	280	360	475	U480F	U400F	F	280	7
220	220	220	240	240	280	350	U400F	U405F	U430F	U270F	290	8
220	220	220	235	250	285	360	460F	F	F	355	340	9
215	225	230	240	250	280	360	U500F	F	F	F	F	10
220	215	210H	230	A	280	355	420	400F	360	295	335	11
B	210	220	230	255	280	340	380	405F	400	350F	360	12
220	215	230	240	255	280	340	480F	420F	330	320	320	13
220	230	235	245	250	280	360	U410F	400F	420	C	420F	14
220	220	225	240	255	280	330	390	420F	380F	300	270	15
220	220	220	235	250	280	330	360	320	320	320	315	16
220	220	220	235	250	270	330	420	440F	350	265	260	17
220	220	220	240	250	275	330	400	U460F	445F	420F	F	18
A	A	220	235	250	280	330	400	370	340	310	270	19
220	215	220	235	B	300	340	420	460	360	300	260	20
220	215	210	230	250	265	320	340	320	295	260	240	21
B	220	235	240	250	270	325	440	U400F	U380F	400F	U320F	22
B	B	220	240	245	270	335	410	405	340	260	240	23
220	220	210	230	240	260	320	420	420	380	320H	260H	24
210	220	210	220	240	270	320	400	450	420F	400	320F	25
205H	205	210H	220H	245	280	330	410	U390F	260	225	240	26
210	200H	225H	C	C	270	320	360	320	260	240	230	27
220	210	220	230	245	270	325	425	U370F	305F	280	235	28
200H	225	205H	230	240	270	320	400	F	315	300	255	29
205	205	220	225	250	270	320	370	F	280	270	250	30
210	205	225	225	250	270	320	F	F	U440F	F	330F	31
215	220	220	235	250	280	340	420	405	355	315	290	Mean
220	220	220	235	250	280	335	420	405	355	305	280	Median
27	29	31	30	28	31	31	29	25	28	27	28	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F
 Unit · Km.
 Month · December 1958

TABLE 63 (Continued)
 Ionospheric Data
 75°0' E Mean Time

Latitude · 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	U320F	250	240	225	225	240	270	240	235	225	225	225
2	290	265	240F	240	220	230	265	245	235	225	220	210
3	290	270	280	275	260	240	270	245	230	225	215II	220
4	245	250	230	220	220	230	260	235	225	225	225	A
5	270	290	270	275	300	280F	305	265	240	240	240	230
6	300	275	260F	U235F	235	260	270	250	230	230	225	220
7	265	285	260	220	235	260	265	250	240	225	220	220
8	250	240	220	225	235	240	290	250	235	230	220	225
9	245	230	250	275	240	240	260	245	240	225	220	220
10	320	250	235	230	220	230	270	250	235	225	220	220
11	F	280	240	220	225	240	270	245	230	230	220	220
12	295	260	240	225	235	245	270	B	235	230	225	215
13	330	300	260	250	230	210	260	240	230	220	230	220
14	275	270	270	340	420F	F	280	250	240	230	225	225
15	310	280	270	255	220	230	270	250	230	230	220	U230B
16	280	265	240	225	230	230	275	250	230	225	215	215
17	270	270	260	260	220	220	260	240	230	220	220	220
18	250	300F	310	320	260	210	260	250	240	235	230	230
19	360	340	300	240	240	230	240	240	230	220	220	235
20	260	260	240	240	220	215	260	240	230	220	220	220
21	260	240	240	240	225	220	270	240	230	230	220	B
22	240	260	260	240	220	210	250	240	230	220	220	B
23	290	260	260	260	240	220	260	240	230	220	215	B
24	240	260	270	240	220	205	260	240	220	220	220	220
25	255	240	220	220	220	230	270	240	230	220	220	215
26	280	260	260	255	230	220	260	245	230	225	220	210
27	240	275	245	220	240	265	265	245	230	220	220	220
28	240	250	230	230	210	225	260	240	225	210	210II	200H
29	250	240	260	250	220	225	260	240	235	225	220	220
30	235	255	270	265	240	225	270	245	235	220	215	210
31	255	285	305	260	225	220	260	240	230	220	205	205
Mean	275	265	255	250	240	230	265	245	230	225	220	220
Median	270	260	260	240	230	230	265	245	230	225	220	220
Count	30	31	31	31	31	30	31	30	31	31	31	27

Sweep, 1 Mc to 25 Mc in 27 seconds.

Characteristic h'F
 Unit . Km.
 Month December 1958

TABLE 63 (Continued)
 Ionospheric Data
 75°0' E Mean Time

Latitude · 10°2' N
 Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
225	215	225	240	260	310	440	F	F	U340F	U335F	320F	1
220	225	B	240	265	305	400	U380F	U365F	275	260	260	2
B	225	225	240	265	300	405	U450F	U415F	345	305F	260	3
220	225	225	A	A	325	U440F	U400F	U360F	U320F	U305F	U320F	4
230	235	240	245	270	325	U460F	F	U450F	U420F	F	U305F	5
215	220	230	240	260	300	400F	U400F	U390F	U315F	U290F	270	6
225	225	235	240	270	300	450	U485F	U480F	400F	F	260	7
220	220	235	240II	270	305	380	F	F	F	295	290	8
220	220	225	245	260	310	420	F	F	350	360	F	9
220	220	235	240	260	310	415	F	F	F	F	390	10
225	210	220II	245	280	300	400	400F	380F	340	310	320	11
B	215	225	240	270	295	375	395	410	385	330F	350	12
220	220	230	240	260	290	420	U460F	370I	300	320	300	13
220	230	235	240	260	305	400	400F	400	420	420F	360	14
215	220	230	240	260	300	360	420	400I	360F	260	280	15
220	220	225	240	260	300	360	340	310	320	320	300	16
220	220	220	240	250	290	380	450F	400F	300	265	230	17
220	220	220	245	260	300	370	420	U480F	U450F	310F	360	18
A	220	230	240	260	300	380	380	340	320	295	260	19
220	215	220	240	B	300	400	420	420	320	260	260	20
210	210	220	245	260	300	340	340	310	260	250	240	21
U230B	220	230	240	260	290	390	U440F	U360F	U360F	400	330F	22
B	U230B	230	240	260	300	380	420	360	280	240	240	23
220	220	220	235	255	280	380	420	400	340II	280II	260	24
210	210	220	240	260	290	360	460F	U460F	400	U380F	310	25
200II	205II	220	240	260	300	390	430	300	240	230	240	26
200II	200	U250A	C	C	290	345	340	300	265	230	240	27
205	210	220	240	265	300	385	U440F	340	305	235	235	28
210II	215II	225	230	250	295	360	F	340	315II	U265F	250	29
200	200II	225	235	260	290	360	F	315	280	260	255	30
210	220	230	230	260	295	400	F	F	360	355F	300	31
215	220	225	240	260	300	390	415	380	335	300	285	Mean
220	220	225	240	260	300	390	420	375	320	295	275	Median
27	31	30	29	28	31	31	23	26	29	28	30	Count

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic h'E
Unit Km.
Month : December 1958

TABLE 64
Ionospheric Data
75° E Mean Time

Latitude . 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2								120	A	115	A	A
3								120	110	A	A	A
4								115H	110	100	A	A
5								A	A	A	A	A
6								120	120	120	A	120
7								115	105	100	100	A
8								120H	110	A	A	A
9								120	115	A	A	A
10								120	115	A	A	A
11								A	A	A	A	A
12								120H	110	A	A	A
13								120	120	120	A	120
14								A	110	A	B	110
15								115	110	A	110	A
16								120	110	115	110	A
17								120	110	110	A	110
18								110	110	B	110	110
19								110	100	110	A	A
20								110	A	A	A	A
21								120	105	A	A	A
22								120	110	A	A	B
23								115	105	A	A	B
24								120	110	110	A	A
25								120	110	105	A	A
26								120	115	A	A	A
27								120	110	105	A	A
28								110	110	A	A	A
29								115	110	110	A	A
30								110	105	A	A	A
31								120	110	A	A	A
Mean								115	110	110	.	115
Median								120	110	110	.	110
Count								27	26	12	4	5

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic . h'E

TABLE 64

Latitude : 10 2° N

Unit Km.

Ionospheric Data

Longitude : 77.5° E

Month December 1958

75.0° E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	110	105	A	.							1
A	A	A	110	A								2
A	A	A	A	A								3
A	A	A	115	A	130							4
100	110	A	A	110								5
A	115	A	105	A								6
A	A	A	A	B	130							7
A	A	A	A	A								8
A	A	A	A	A	A							9
A	A	A	A	A	A							10
A	A	A	A	A	A							11
B	A	A	A	A	A							12
115	110	110	110	115	120							13
115	120	110	A	110	.							14
A	A	A	A	115	.							15
110	A	A	110	110	.							16
A	110	110	110	120	.							17
110	A	B	120	120	..							18
A	A	A	A	115	120							19
A	A	A	A	B	.							20
A	A	A	A	110	120							21
B	A	110	110	110	A							22
B	B	A	110	120	130							23
A	110	110	120	120	130							24
A	B	A	A	110	U120F							25
A	A	A	A	A	A							26
A	A	A	A	C	..							27
A	A	A	A	A	A							28
A	A	A	A	A	120							29
A	A	A	120	110	A							30
A	A	105	105	110	120							31
110	110	110	110	115	125							Mean
110	110	110	110	110	120							Median
5	6	7	13	15	11							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic . h'E

TABLE 64 (Continued)

Latitude · 10 2° N

Unit : Km.

Ionospheric Data

Longitude : 77·5° E

Month : December 1958

75·0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							A	A	A	A	A	A
2							125	115	115	110	A	A
3							125	110	105	A	A	A
4							..	115	120	A	120	A
5							A	A	A	A	A	A
6							135	120	120	120	120	A
7							120	110	100	100	A	A
8							125	115	A	A	A	A
9							125	115	115	A	A	A
10							125	120	A	A	A	A
11							130 ^{II}	A	A	A	A	A
12							120	B	A	A	B	A
13								120	120	A	120	120
14							125	110	115	110	A	115
15							120	110	110	110	A	B
16							125	120	110	115	110	110
17							120	115	110	A	A	A
18							130	110	110	110	110	A
19								105	100	105	A	A
20							120	A	A	A	A	A
21							125	110	A	A	A	B
22							120	120	110	B	A	B
23							130	110	A	A	A	B
24							.	115	110	A	A	A
25							130	110	110	A	A	A
26							140	110	110	110	A	A
27							145	115	110	A	A	A
28							140	110	A	A	A	A
29							125	110	110	A	A	A
30							130	110	A	A	A	A
31							120	115	A	A	A	A
Mean							125	115	110	110	115	
Median							125	110	110	110	120	..
Count							25	26	19	9	5	3

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic · h'E
 Unit Km.
 Month : December 1958

TABLE 64 (Continued)
 Ionospheric Data
 75.0° E Mean Time

Latitude : 10° 2' N
 Longitude : 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	105	A								1
A	A	B	110	120								2
B	A	A	110	A								3
B	110	A	115	A								4
110	110	A	110	A								5
105	110	A	A	A								6
B	A	A	A	A								7
A	A	A	A	A								8
A	A	A	A	A								9
A	A	A	A	A								10
A	A	A	A	..								11
B	A	A	A	A								12
115	110	A	110	120								13
110	110	A	A	110								14
A	A	A	A	F								15
A	110	110	110	120								16
A	115	110	120	115								17
110	110	B	115	120								18
A	A	A	110	120								19
A	A	A	110	B								20
A	A	A	110	120								21
B	110	110	115	120								22
B	B	A	110	120								23
A	110	110	120	120								24
A	A	A	A	120	140							25
A	A	A	110	A								26
A	A	A	C	C								27
A	A	A	A	110								28
A	A	A	A	110								29
A	A	A	115	A								30
A	A	105	120	120								31
110	110	110	110	120								Mean
110	110	110	110	120								Median
5	10	5	18	15	1							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es
 Unit · Km
 Month · December 1958

TABLE 65
 Ionospheric Data
 75 ° E Mean Time

Latitude 10·2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								105	100	100	100	100
2	115							G	100	100	100	100
3						100		G	100	100	100	100
4								G	G	100	100	100
5	110	100			105			100	100	100	100	100
6								G	G	G	100	100
7								105	100	100	100	100
8								G	100	100	100	100
9							100	G	100	100	100	100
10								G	100	100	100	100
11								100	100	100	100	100
12								G	100	100	100	100
13								G	G	G	100	100
14						105		110	100	100	G	100
15			120					100	100	100	100	100
16								110	100	100	100	100
17								G	100	100	100	100
18								G	G	G	100	100
19								G	110	G	100	100
20								120	100	100	100	100
21								100	100	100	100	100
22								G	G	100	100	100
23						105		G	100	100	100	B
24								G	100	100	100	100
25								105	100	100	100	100
26								G	G	100	100	100
27		110						G	100	100	100	100
28								G	100	100	100	100
29								G	100	100	100	100
30								G	100	100	100	100
31								G	100	100	100	100
Mean	.	.	.	.	.	.	.	105	100	100	100	100
Median	.	.	.	.	.	.	.	105	100	100	100	100
Count	2	2	1	.	2	2	1	10	25	27	30	30

*Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic · h'Es
Unit · Km.
Month December 1958

TABLE 65
Ionospheric Data
75° E Mean Time

Latitude : 10° 2' N
Longitude : 77° 5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	—							1
100	100	100	100	105	—							2
100	100	100	100	100	—							3
100	100	100	125	125	G			115			105	4
100	100	100	100	100								5
100	120	100	100	100								6
100	100	100	100	100	G							7
100	100	100	100	100	125							8
100	100	100	100	100	100							9
100	100	100	100	100	110							10
100	100	100	100	100								11
B	100	100	100	100	100							12
100	100	100	100	100	G							13
100	100	100	100	100	120							14
100	100	100	100	100	130							15
100	100	100	100	100	110							16
100	100	100	100	100	110				110			17
100	100	100	100	100	.							18
100	100	100	100	100	110							19
100	100	100	100	100	105							20
100	100	100	100	100	105							21
100	100	100	100	100	105							22
B	100	100	100	100	105				120			23
100	100	100	100	G	G							24
100	100	100	100	100	110							25
100	105	100	100	100	105							26
100	100	100	C	C	120	110						27
100	100	100	100	100	110							28
100	100	100	100	105	105			115				29
100	100	100	100	100	100			130				30
100	100	100	100	G	110							31
100	100	100	100	100	110			.				Mean
100	100	100	100	100	110	.	.	.				Median
29	31	31	30	28	20	1	.	3	2	.	1	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic . h'Es TABLE 65—(Continued)
 Unit Km. Ionospheric Data Latitude . 10 2° N
 Month December 1958 75 0° E Mean Time Longitude . 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1												
2	110						105	100	100	100	100	100
3							G	100	100	100	100	100
4	100						G	120	100	100	100	100
5		100						100	100	100	100	100
6							G	G	G	G	G	100
7							G	100	100	100	100	100
8							G	100	100	100	100	100
9							135	G	100	100	100	100
10				100			G	G	100	100	100	100
11							G	100	100	100	100	100
12							G	B	100	100	100	100
13							G	G	G	100	100	100
14						105	G	100	100	100	100	100
15							G	100	100	100	100	100
16							G	100	100	100	100	100
17							G	G	100	100	100	100
18							G	G	100	100	100	100
19							G	110	100	100	100	100
20							G	105	100	100	100	100
21							G	100	100	100	100	100
22							G	G	100	100	100	100
23				120			G	100	100	100	100	B
24							G	100	100	100	100	100
25							G	100	100	100	100	100
26							G	100	100	100	100	100
27		120					G	G	G	100	100	100
28							G	105	100	100	100	100
29							G	100	100	100	100	100
30							G	100	100	100	100	100
31							G	G	100	100	100	100
Mean								100	100	100	100	100
Median	.							100	100	100	100	100
Count	2	2	1	1	1	1	2	17	28	30	30	30

Sweep 1 Mc+ to 25 Mc in 27 seconds.

Characteristic · h'Es
 Unit Km
 Month December 1958

TABLE 65 —Contd
 Ionospheric Data
 75 ° E Mean Time

Latitude : 10 2° N
 Longitude : 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	105							115	1
100	100	B	100	105								2
100	100	100	100	105								3
100	100	100	120	125						110	100	4
100	100	100	100	105								5
100	100	100	100	105								6
100	100	100	100	100								7
100	100	100	100	110								8
100	100	100	100	100								9
100	100	100	100	100								10
100	100	100	100	120						115		11
100	100	100	100	100								12
100	100	100	100	105								13
100	100	100	100	100								14
100	100	100	100	100								15
100	100	100	100	100								16
100	100	100	105	105								17
100	100	G	100	100								18
100	100	100	100	100								19
100	100	100	100	100								20
100	100	100	100	100								21
100	100	100	100	100					115			22
100	100	100	100	105					115			23
100	100	100	100	G					120			24
100	100	100	100	105	G							25
100	100	100	100	100								26
100	100	100	C	C	115							27
100	100	100	100	105								28
100	100	100	100	105			115	120				29
100	100	100	G	100	155							30
100	100	100	G	105								31
100	100	100	100	105								Mean
100	100	100	100	105								Median
31	31	29	28	29	2		1	1	3	2	2	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic (M3000)F2

TABLE 66

Latitude . 10.2° N

Unit ...

Ionospheric Data

Longitude . 77 5° E

Month December 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	2 45 ^F	2 70	U2 95 ^F	3 05	3 15	2 75	2 60	2 45	2 20	2 10	2 05
2	F	F	2 65 ^F	2 75	3 00	3 05	2 85	2 80	2 55	2 35	2 15	2 10
3	2 60	2 60	2 65	2 80	2 50	U2 45 ^S	2 55	2 45	2 50	2 25	2 05	2 05
4	2 55	2 65	2 75	2 95	3 25	3 20	U2 90 ^S	2 95	2 80	2 55	2 45	2 40
5	U2 55 ^S	2 60	2 70	2 70	2 75	U2 80 ^S	2 50	2 20	2 10	1 90	W	U1 85 ^W
6	U2 40 ^F	U2 40 ^F	U2 55 ^F	F	2 95	3 15	U2 70 ^S	2 75	2 50	2 50	2 45	2 40
7	U2 25 ^F	F	2 60	2 90	3 15	3 10	2 70	U2 70 ^S	2 50	2 35	2 25	2 20
8	U2 60 ^F	2 80	U2 80 ^F	2 80	F	3 05	U2 95 ^S	2 90	2 70	2 45	2 20	2 15
9	U2 70 ^S	F	U2 85 ^F	2 80	2 85	2 95	2 90	2 85	2 70	2 55	2 30	2 15
10	F	F	2 75	2 75	3 00	3 15	2 90	2 80	2 65	2 50	2 35	2 20
11	F	F	F	F	3 15	3 20	2 80	2 90	2 60	2 40	2 25	2 20
12	F	F	F	U3 00 ^S	3 10	3 10	2 90	2 70	2 65	2 55	2 35	2 25
13	F	F	F	F	F	3 20	2 95	2 90	2 80	2 80	2 50	2 30
14	2 50	2 65	2 80	U2 65 ^S	2 40	U2 20 ^F	2 45	U2 70 ^S	2 50	2 40	U2 30 ^R	2 30
15	F	U2 45 ^F	2 70	U2 80 ^S	3 00	3 05	2 95	2 60	2 35 ^{II}	2 35	2 20	2 05
16	2 60	F	U2 80 ^S	3 00	3 10	3 25	U2 80 ^S	U2 80 ^S	U2 45 ^S	2 25	2 20	2 10
17	2 55	2 70	U2 75 ^S	2 70	2 90	U3 10 ^S	2 95	2 95	2 70	2 40	2 15 ^R	2 15
18	2 95	2 65	2 45 ^F	2 60	F	3 20	3 10	2 90	2 80	2 65	2 45	2 35
19	F	F	F	F	F	F	FS	3 00	2 85	U2 80 ^F	2 60	2 50
20	U2 45 ^R	J2 65 ^S	U2 75 ^S	2 75	U3 05 ^S	J3 20 ^R	3 10	3 05	2 80	2 50	U2 20 ^R	2 15
21	2 70	2 60 ^F	J2 90 ^S	2 90	2 95	3 15	U3 10 ^S	2 85	2 70	2 50	2 35	2 30
22	U2 80 ^S	U2 90 ^S	U2 90 ^S	3 05	3 15	3 40	3 00	3 10	3 00	J2 60 ^R	U2 20 ^R	2 20
23	F	F	F	F	U2 90 ^F	3 15	3 10	2 95	J2 70 ^R	J2 35 ^R	2 30	2 25
24	U2 60 ^S	U2 75 ^S	U2 70 ^S	U2 85 ^S	3 05	3 35	2 75	2 95	2 80	2 55	2 20	2 15
25	F	F	F	U3 00 ^F	3 25	3 30	2 75	2 80	2 60	2 40	2 25	2 20
26	F	F	U2 70 ^F	F	2 95 ^F	3 20	2 95	3 05	2 90	2 65	2 40	2 10
27	2 80	U2 75 ^S	2 75	2 95	3 00	2 80	2 85	2 90	2 80	2 45	2 15	2 05
28	U2 75 ^S	U2 60 ^S	2 60	2 80	3 10	3 45	2 70	2 90	2 60	2 30	2 10	2 10
29	2 70	2 80	F	2 70	3 00	3 15	2 70	2 95	2 75	2 45	2 10	2 10
30	U2 60 ^S	2 80	2 75	2 80	2 90	J3 05 ^S	2 90 ^S	2 75	2 50	2 20	2 15	2 10
31	2 70	U2 60 ^S	2 55	2 55	2 90	3 15	2 85	2 90	2 70	2 35	2 05	2 05
Mean	2 60	2 65	2 70	2 80	3 00	3 10	2 90	2 80	2 65	2 45	2 25	2 20
Median	2 60	2 65	2 70	2 80	3 00	3 15	2 90	2 90	2 70	2 45	2 20	2 15
Count	20	19	24	25	27	30	30	31	31	31	31	31

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : (M3000)F2
 Unit .
 Month December 1958

TABLE 66
 Ionospheric Data
 75.0° E Mean Time

Latitude 10 2° N
 Longitude . 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	
2 05	2 00	2 00	2 00	2 05	2 05	2 00	U1.85W	F	F	2 10	U2.90F	1
2 10	2 05	2 00	2 00	1 90	2 00	U2 05S	F	U2 05F	2.25	U2 60S	2.65	2
2 00	2 00	2 00	2 00	2 00	2 00	U2.05S	2.05	2.00	2 10	2 25	2.40	3
2 35	2 30	2 25	2.20	2 25	2.25H	2.05H	U1.95F	F	F	F	F	4
1 90	2 00	2 00	2 00	1 95	2 00	2.00	1.90	F	F	F	U2 30F	5
2 30	2 35	2 30	2 15	2 05	2.05	2.00	U1.85F	F	F	U2 15F	F	6
2.15	2 20	2 10	2.05	1 95	2 05	2.05	1.95	F	F	F	U2 25F	7
2.10	2 05	2 05	2 00	2.00	2 10	U2 15S	U2.10S	F	F	F	F	8
2 10	2 00	2 10	2 10	2.00	2 00	1.90	1.90	F	F	2 05	F	9
2 05	2 05	2.05	2 05	2.00	2 00	2.00	1 80	F	F	F	F	10
2 15	2.10	2 05	2 00	2.10	2 15	2 10	2 00	2 05	2.15	F	U2 35S	11
2 25	2 10	2 00	1.95	2.00	2 10	2 10	2.05	2 05	2.10	U2 25S	F	12
2.20	2 15	2 15	U2.05R	U1 95R	U2 10S	2.10	F	F	2.20	2 25	U2 40S	13
2 20	2 20	2 15	2 20	2.20	U2 05S	E1.90WH	FH	F	F	C	F	14
2 00	1.95	1 95	2 00	2.05	U2.05S	U2.10S	U2 10S	U2.00F	2.05F	2.35	2.55	15
2.05	2 10	2.10	2.10	2.10	R	2 05	2.05	2.15	2 10	2.20	F	16
2 15	2 15	2 10	2 15	2.15	U2 20S	2.10	2 05	F	U2.15F	U2.60R	2.50F	17
2 25R	2 25R	2 25	2.25	2.20	2 20	2.10	U1.95S	U2.05S	F	F	F	18
J2 50R	2.50	J2 40R	2.25	2.20	U2 10RH	U2.10S	U1.90W	U2.05S	2.10	U2.40S	J2.35R	19
2.15	2 10	2.10	2 05	2.10	U2 20S	U2.25S	J2.10R	J2 1CF	J2.20R	U2.40S	J2.70S	20
2 30	2.20	2.25	2 15	U2.15S	2 10	U2 25S	2.20	J2.20R	2 45	U2.55S	U2.65S	21
2 30	2 25	2 30	2 25	2.25	U2 20S	U2 10S	1.95	F	F	F	F	22
2 15	2 15	2.10	2 15	2.30	J2.25R	U2.10S	J2.05R	U2.00F	2.15F	U2 50S	U2 60S	23
2 20	2.20	2 20	2.25	2.35	2.40	U2.40R	J2.15R	2.1CF	2.25F	J2 35RH	F	24
2.15	2.10	2.10	2 10	2 10	U2 20S	2.30	2.10	U2.00FS	J2.05FS	J2.10S	U2.30F	25
2.00	2 00	2.05	2.10	2.10	2.05	U2 10S	2.05	U2.00F	U2.55S	2 70	U2.80S	26
2.05	2.00	1.95	C	C	2.10	2 20	2.15	2.30	2.50	2 65	J2.70R	27
2 10	2.00	2.00	2.00	2 05	U2 10S	2 10	1.95	U2.00F	U2 05F	F	U2.65S	28
2 05	2.00	2.00	2 05	2.10	2.10	U2 10S	2 00	FS	2.30	F	J2.50S	29
2 15	2 10R	2 10	2.15	2.20	2 25	2.15	2 10	2.15	2.35	2.45	2.60	30
2 10	2.15	2 15	2.20	2.30	2 30	2 25	2.00	J2.00F	J2.15F	U2.40F	F	31
2.15	2 10	2.10	2 10	2.10	2.10	2.10	2.00	U2 05	2.20	U2.35	U2 50	Mean
2.15	2 10	2 10	2.10	2.10	2.10	2.10	2.00	U2.05	2.15	U2.40	U2.50	Median
31	31	31	30	30	30	31	28	17	20	20	19	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic (M3000)F2

TABLE 66 — (Continued)

Latitude 10 2° N

Unit

Ionospheric Data

Longitude 77 5° E

Month December 1958

75 0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	2 60F	U2 80F	3 00	3 20	2 60H	2 75	2 50	2 30	2 15	2 10	2 05
2	F	F	2 70F	2 85	3 00	3 15	U2 90S	2 65	2 45	2 20	2 15	2 10
3	2 60	U2 70S	2 65	2 70	2 40	2 50	2 45	2 50	2 40	2 10	2 05	2 00
4	2 70	2 70	2 95	3 15	3 20	2 75H	U3 05S	2 85	2 70	2 50	2 40	2 35
5	2 60	U2 65S	2 70	2 80	U2 70S	U2 60S	2 60	2 15	2 00	U1 85W	U1 80W	1 90
6	U2 45F	U2 50F	U2 70F	2 90F	3 05	2 50H	2 75	2 65	2 50	2 45	2 40	2 35
7	U2 35F	U2 60F	2 80	U3 15S	3 10	U2 75F	2 70	2 60	2 40	2 30	2 20	2 20
8	2 75	2 80	2 85	2 95	F	3 10	2 95	2 80	2 55	2 30	2 20	2 10
9	2 75	F	U2 80S	2 80	3 00	U2 95S	2 80	2 80	2 65	2 40	2 20	2 05
10	F	2 55	2 80	2 85	3 15	3 20	2 90	2 70	2 60	2 40	2 25	2 15
11	F	F	F	U3 10S	3 15	3 15	2 90	2 70	2 50	2 30	2 20	2 20
12	F	F	F	3 00	3 10	3 05	2 80	2 70	2 60	2 45	2 30	2 20
13	F	F	F	F	3 00	3 10	2 90	2 85	2 80	2 65	2 35	2 25
14	2 50	2 75	U2 80S	U2 60S	2 25F	U2 05F	2 70	2 65	U2 40R	2 35	2 30	2 20
15	U2 40F	2 60	2 75	2 85	3 15	3 05	2 80	2 40H	2 45	2 30	2 15	2 00
16	U2 55S	F	U2 95S	3 05	3 15	3 30	2 90	2 60	2 45	U2 15R	2 15	2 10
17	2 75	2 70	U2 70S	2 80	3 00	U3 20S	2 95S	2 85	2 55	2 20R	2 05	2 10
18	2 80	2 50	2 50S	2 50	2 70	3 30	2 90	2 70	2 65	2 50R	2 35	2 25R
19	F	F	F	F	U2 80F	F	FS	2 90	U2 85F	2 75	J2 55R	2 50
20	2 45	U2 75S	U2 75S	U3 00S	U3 20S	3 40	3 10	2 95	2 65	U2 35R	2 20	2 10
21	2 55	2 90	U2 85S	2 90	U3 05S	3 15	3 00	U2 70S	2 55	24 0	2 25	2 30
22	U2 85S	U2 90S	U2 95S	3 05	3 20	J3 40S	3 15	3 10	2 80	J2 40R	U2 10R	2 25
23	F	F	F	U2 80F	3 00	U3 20R	3 05	2 90	2 55	U2 20R	2 25	U2 20R
24	U2 65S	U2 75S	U2 80S	U2 90S	3 30	3 40	3 00	U2 90S	2 70	2 35	2 20	2 20
25	F	F	U2 85F	3 15	3 30	3 25	2 90	2 65	2 45	2 25	2 20	2 15
26	F	U2 80F	F	F	U2 95F	3 15	3 05	3 00	2 75	2 50	2 20	2 05
27	U2 80S	U2 75S	2 85	J3 05S	2 90	U2 85F	J2 95S	2 90	2 65	2 30	2 10	2 10
28	2 70	2 60	2 65	2 95	3 25	3 30	2 95	2 75	2 40	2 20	2 10	2 10
29	2 75F	J2 90F	U2 75F	2 80	3 05	3 15	3 00	2 90	2 60	2 25	J2 00R	2 05
30	U2 70S	2 80	2 75	2 80	3 00	U3 15S	U2 85S	2 70	2 30	2 20	2 10	2 10
31	2 70	2 50	2 50	2 70	3 00	3 25	2 95	2 80	2 50	2 15	2 05	2 10
Mean	2 65	2 70	2 75	2 90	3 00	3 05	2 90	2 75	2 55	2 30	2 20	2 15
Median	2 70	2 70	2 80	2 90	3 05	3 15	2 90	2 70	2 55	2 30	2 20	2 10
Count	21	22	25	28	30	30	30	31	31	31	31	31

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic (M3000)F2
Unit
Month December 1958

TABLE 66— (Continued)
Ionospheric Data
75.0° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2 00	2 00	2 00	2 00	2 00	U2 05S	1 95	F	F	F	2 20	F	1
2 10	2 00	2 00	2 00	1 90	U2 00S	U2 00F	2 05F	F	2 45	2 70	2 65	2
2 00	2 00	2 00	1 95	2 00	U2 15S	2 05	1 95	2 00	2 20	2 30	2 40	3
2 35	2 25	2 25	2 25	2 25	2 15H	1 95H	U2 00F	F	F	F	F	4
1 95	2 00	2 00	2 00	1 90	2 00	2 00	U2 00F	F	F	F	U2 30F	5
2 30	2 35	2 25	2 10	U2 05R	U2 00H	1 85	U1 95FH	U2 10F	F	F	U2 25F	6
2 20	2 15	2 05	1 90	2 00	2 10	1 95	U1 90F	F	F	F	F	7
2 05	2 00	2 00	2 00	2 05	U2 15S	2 15	F	F	F	U2 50F	U2 60F	8
2 05	2 10	2 10	2 00	2 05	1 95	1 95	F	F	2 10	F	F	9
2 05	2 05	2 05	2 00	1 95	2 00	1 95	F	F	F	F	F	10
2 10	2 05	2 00	2 05	2 15	2 10	2 00	2 05	2 10	2 25	2 40	F	11
2 15	2 05	2 00	1 95	2 05	2 10	2 00	2 05	2 10	U2 20S	2 20	F	12
2 20	2 15	2 10	U2 00R	U1 95R	2 10	2 00	F	2 15	U2 30S	U2 40S	2 50	13
2 20	2 25	2 20	2 20	2 10	U2 05S	F	F	F	F	F	F	14
1 95	1 95	2 00	2 05	2 05	U2 10S	U2 10S	2 05	U2 05F	U2 25S	2 50	2 60	15
2 05	2 10	2 10	2 15	2 05S	U2 00R	2 05	2 05	2 20	2 15	2 25	2 40R	16
2 15	2 10	2 10	2 15	2 15	U2 15S	2 05	R	2 05F	2 35	FS	U2 80F	17
2 25	2 25	2 25	2 25	2 20	2 20	R	U1 95R	F	F	F	F	18
J2 45R	2 40	2 40	2 25	U2 20HR	U2 05S	J2 00RH	U2 05S	2 10	2 30	2 30	U2 50R	19
2 20	2 10	2 05	2 05	2 15	U2 25S	2 10	J2 05R	F	F	U2 60S	J2 65R	20
2 25	2 25	2 20	2 10	U2 10S	2 20	J2 20R	U2 30SR	U2 40SR	2 55	U2 55S	U2 70S	21
2 30	2 30	2 30	2 25	2 20	J2 15R	U2 05R	F	F	F	F	F	22
J2 20R	2 10	2 10	2 25	J2 30R	U2 15S	2 05	U2 05SF	U2 00F	U2 30S	J2 60R	J2 55R	23
2 20	2 20	2 25	2 30	2 40	2 45	2 25	2 10	2 20	J2 40HR	F	F	24
2 10	2 15	2 10	2 10	U2 15S	U2 35S	U2 25S	02 05F	U2 05F	J2 10R	F	J2 50F	25
2 00	2 00	2 05	2 10	2 05	2 10	2 05	1 90	2 30	2 65	U2 75S	U2 75S	26
2 05	1 95	1 90	C	C	2 20	2 20	J2 20R	2 40	2 65	2 70	J2 70R	27
2 10	1 95	2 00	2 05	2 05	U2 10S	2 05	1 90F	U2 00F	F	F	U2 75S	28
2 00	2 00	2 00	2 10	2 10	2 05	U2 05F	FS	J2 15F	U2 45R	F	S	29
2 10	2 10	2 15	2 20	U2 25S	2 20	2 10	2 10	2 25	2 40	2 55	2 70	30
2 10	2 15	2 20	2 25	2 30	2 25	2 10	U2 00F	F	J2 20F	F	F	31
2 15	2 10	2 10	2 10	2 10	2 10	2 05	2 05	2 15	2 35	2 45	2 55	Mean
2 10	2 10	2 10	2 10	2 10	2 10	2 05	2 05	2 10	2 30	2 50	2 60	Median
31	31	31	30	30	31	29	22	18	19	16	18	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

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MAGNATIC DATA

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40—1 D.D.G. Kodai, 60

TABLE I

Hourly values of Declination (Westerly), 1958
(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
2° plus tabular quantities

July

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
1	35 3	34 3	33 3	33 6	35 7	37 1	38 4	38 9	39 1	38 8	38 1	36 7	35 7	35 6	35 9
2†	35 3	34 6	34 6	35 1	36 2	38 3	39 0	39 1	38 8	37 4	36 3	36 0	36 2	36 5	36 5
3	35 8	35 2	34 4	34 5	35 8	36 9	38 9	39 9	39 6	38 0	36 8	35 5	35 2	35 4	36 1
4	35 7	35 1	35 0	35 3	35 4	36 4	38 1	38 8	38 9	37 1	36 3	35 8	36 4	35 7	35 6
5	35 7	34 6	34 7	35 6	36 3	37 1	37 6	37 6	37 7	37 1	36 7	35 7	35 6	35 7	35 3
6†	36 0	34 8	34 8	34 7	35 2	36 5	38 0	38 6	39 3	38 4	37 9	36 2	35 9	35 9	35 9
7	35 9	35 1	34 4	34 8	36 1	37 0	38 0	38 4	38 3	37 9	37 0	36 5	36 6	36 6	36 9
8††	35 2	34 1	34 1	34 7	35 7	36 9	38 2	39 2	41 1	40 0	40 6	38 9	35 8	36 5	37 8
9††	28 3	27 1	28 5	30 5	33 0	35 1	35 7	35 7	35 4	34 0	33 2	32 3	32 2	32 2	31 6
10	33 9	33 6	32.6	33 3	34 0	34 7	36 7	37 1	37 2	37 2	36 8	35 7	35 3	35 0	34 7
11	35 3	34 4	33 7	33 8	34 9	36 1	37 7	38 8	38 7	38 0	37 1	36 3	35 4	35 3	35 3
12	34 3	33 3	32 6	33 9	36 0	37 1	39 1	39 6	39 2	38 0	35 9	34 9	35 0	35 2	35 2
13	35 2	34 0	33 5	33 8	35 0	36 0	38 4	38 0	37 4	36 6	35 6	34 9	34 2	34 7	35 4
14	35 4	34 7	34 2	34 9	35 9	36 4	37 4	38 0	38 4	37 8	36 7	35 2	34 5	34 7	35 4
15†	35 7	35 2	34 6	34 5	35 2	36 3	37 6	38 1	37 9	38 1	37 7	36 3	35 3	35 1	35 1
16†	35 3	34 9	33 9	33 9	35 2	37 2	39 0	39 7	40 2	39 3	37 4	36 7	36 3	35 9	36 0
17	35 1	33 9	34 8	36 1	37 5	39 0	39 3	39 4	38 7	38 2	36 8	36 2	35 8	35 4	35 5
18††	34 1	33 3	32 7	34 2	36 1	37 0	38 8	38 8	37 8	37 4	36 5	36 3	36 0	36 1	36 5
19	34 9	33 9	33 5	34 0	35 1	36 3	37 8	39 1	37 8	37 4	35 8	35 4	35 1	35 4	36 3
20	35 1	33 9	32 6	33 5	34 5	36 0	37 7	39 9	39 5	39 1	38 0	36 4	35 7	35 0	35 0
21††	35 3	34 5	33 5	33 5	34 7	35 8	37.5	38 0	38 3	37 5	36 6	36 2	36 1	35 9	36 2
22	35 1	34 1	33 0	33 1	34 7	36 3	37 6	38 7	39 4	39 0	37 6	36 2	35 2	35 6	35 4
23†	35 2	34 8	34 4	34 9	35 6	37 3	38 3	39 0	38 8	38 7	37 7	36 9	36 2	35 9	35 9
24	35 5	34 8	33 8	34 1	35 9	37 8	39 2	40 1	39 2	38 1	37 8	37 4	37 6	36 7	36 9
25	34 9	34 8	34 5	34 9	36 3	36 7	38 0	40 2	39 5	39 1	37 7	35 2	34 8	34 9	35 2
26	34 6	33 4	32 1	32 8	35 2	37 3	40 2	40 9	40 6	39 7	38 3	37 1	36 2	35 9	36 0
27††	34 8	33 9	33 6	34 4	36 4	38 2	39 6	40 3	40 2	38 4	37 2	36 8	35 3	34 9	34 7
28	33 3	32 1	31 5	32 8	35 0	37 5	39 9	40 6	40 6	39 9	37 9	37 5	36 5	36 1	36 0
29	35 3	34 7	33 7	33 6	35 0	37 2	39 1	39 2	38 5	37 9	38 1	37 1	36 1	35 6	36 3
30	35 6	34 7	33 9	35 0	36 4	37 8	39 3	40 5	40 3	39 5	39 2	38 1	37 4	36 7	36 0
31	35 8	35 1	34 9	35 3	37 4	39 2	40 5	40 7	40 7	39 2	37 1	36 0	35.3	35 3	35 7
Mean	34 9	34 1	33 6	34 2	35 5	36 9	38 4	39 1	38 9	38 4	37 2	36 2	35 6	35 5	35 7
Mean†	35 5	34 9	34 5	34 6	35 5	37 1	38 4	38 9	39 0	38 4	37 4	36 4	35 9	35 9	35 9
Mean††	33 5	32 6	32 5	33 5	35 2	36 6	38 0	38 4	38 6	37 5	36 8	36 1	35 1	35 1	35 4

†Five international quiet days

††Five international disturbed days.

△Loss of record, day omitted for means.

TABLE I

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

July

2° plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
									H M		H M				
36 3	36 3	36 4	36.4	36.3	36 4	36 3	36 3	35 9	36 4	07 42	39 4	02 00	33 3	6 1	1
36 7	37 0	37 0	36 9	36 6	36 5	36 5	36 3	36 2	36 6	06 30	39 4	01 12	34 3	5 1	2†
36 8	36 5	36 1	36 1	35 9	36 1	36 4	36 2	35 9	36 1	07 00	39 9	01 50	34 2	5 7	3
35 7	36 1	35 8	36 0	36 0	36 1	36 1	35 8	36 1	6 2	07 28	39 9	01 00	34 8	5 1	4
36 0	36 7	37 0	36 9	36 9	36 7	36 7	36 7	36 7	36 4	07 48	37 8	01 20	34 4	3 4	5
36 5	36 6	36 9	36 9	37 0	36 8	36 6	36 5	36 3	36.6	08 00	39 3	01 22	34 5	4 8	6†
36 9	37 0	37 5	37 3	36 6	36 1	35 9	35 6	35 5	36 6	07 00	38 4	01 40	34 2	4 2	7
37 1	34 6	34 3	33.3	31 1	29 4	28 4	28 3	29 0	35 2	08 05	43 4	21 58	27 3	16 1	8||†
33.2	34 4	34 7	35 0	35 0	35 0	35 0	34 8	34 3	33 2	06 45	36 0	00 35	26 9	9 1	9††
35 5	35 5	35 7	35 7	35 5	35 4	35 3	35.1	35 4	35 3	07 34	37 5	02 05	32 5	5 0	10
35 4	35 7	36 0	35 9	35 7	35 6	35 4	35 3	35 0	35 9	07 48	39 2	02 25	33 6	5 6	11
36 1	36 3	36 4	36 0	35 7	36 1	36 0	35 6	35 4	36 0	07 50	39 8	01 39	32 4	7 4	12
36 3	36 4	36 6	36 6	36 4	36 1	36 1	36 0	35 7	35 8	05 55	38 5	02 00	33 5	5 0	13
35 9	36 1	36.1	36 4	36 4	36 4	36 3	36 3	36 1	36 1	08 12	38 8	02 00	34 0	4 8	14
35 6	36 0	36 3	36 2	36 0	36 0	36 0	35 9	35.6	36 1	07 00	38 1	02 35	34 3	4 8	15†
36 3	36 2	36 0	35.9	35 6	35 6	35 3	35 2	35.2	36 3	08 12	40 4	02 00	33 8	6 6	16†
35 8	35 9	35 9	35 8	35.2	35 1	35 1	34 8	34 7	36 2	06 45	39 6	01 02	33 7	6 1	17
36 8	36 7	36 4	35 8	35.4	35 4	35 3	35 3	34.9	36 0	07 20	39 3	02 00	32 7	6 6	18||†
36 3	36 4	36.3	36 3	36 0	36 0	36 1	35 4	35 1	35 9	06 55	39 3	01 35	33 3	6 0	19
35 9	35 6	36.0	35 9	35 9	35 7	35.6	35 3	35 3	36 0	07 15	40 4	02 00	32 6	7 8	20
36 1	36 2	36.9	36 1	35 6	35 5	35 2	35.4	35 8	35 9	08 00	38 6	02 00	33 2	5.4	21††
35 9	36 2	36 1	36 2	36 2	36.1	35 8	35 6	35 6	36 0	07 34	40 0	02 16	32 7	7 3	22
36 3	36 6	36.4	36.3	36 0	36 0	35 9	35 7	35 6	36 4	07 30	39 1	02 00	34 4	4 7	23†
36 9	36 4	36 4	36 2	35 9	35.5	35 3	35 3	35 2	36 6	07 00	40 2	02 06	33 5	6 7	24
35 5	35 9	35.6	35 6	35 9	35 6	35 2	35 2	34 9	36.1	07 14	40.5	02 30	34 2	6 3	25
36 0	36 0	36 0	36 0	35 9	35.5	36 2	35 7	35 2	36 4	07 00	41 7	02 30	31 8	9 9	26
34 7	35 0	35 3	35 3	35 4	35 3	34 6	34 2	33 9	35 9	07 30	40 9	02 00	33 5	7 4	27††
36 1	36 1	35 7	36.0	36 1	36 1	35 7	35 3	35 3	36 2	07 34	40 9	02 00	31 1	9.8	28
36 5	36 5	36 4	36 1	36.3	36 3	36 0	36 0	36 1	36 4	07 10	39 5	03 45	32 9	6 6	29
36 0	35 8	35 7	36 0	35 8	36.0	36 1	36 3	36 0	36 8	07 26	40 7	01 38	33 6	7 1	30
36 4	36 7	36 0	36.3	36 0	36.0	36 3	36 3	36.0	36 8	07 30	41 0	01 30	34 7	6 3	31
36 0	36 1	36 1	36 0	35 8	35 7	35 6	35 4	35 3	36 1	.	.	.	.	6 5	Mean
36 3	36 5	36 5	36 4	36 2	36 2	36.1	35.9	35 8	.	.	.	.	.	.	Mean†
35 6	35.4	35 5	35 1	34.5	34.2	33.7	33 6	33 6	.	.	.	.	.	.	Mean††

†Five international quiet days.

||Five international disturbed days

△Loss of record, day omitted for means.

TABLE 2

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

August

2° plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1	35 7	34 4	33 6	33 6	35 0	36 4	37 4	37 7	37 6	38 0	38 0	36 3	35 7	35 7	36 0
2	35 0	33 6	32 5	33 1	34 8	36 9	38 5	39 8	40 9	39 1	37 0	35 6	34 9	34 9	34 9
3	35 9	34 6	33 5	33 4	34 6	36 3	37 4	38 8	39 0	38 7	36 6	35 3	34 5	34 5	35 0
4†	35 6	34 6	33 9	34 8	35 6	37 3	37 8	37 8	37 7	37 6	36 6	36 2	35 9	35 3	35 3
5†	35 5	34 5	33 6	34 2	34 9	36 0	36 4	37 7	38 4	37 6	36 6	35 3	34 9	35 0	35 7
6†	35 3	34 8	33 6	33 6	35 2	37 0	38 1	38 7	38 7	39 1	38 1	37 1	36 3	36 0	35 9
7	35 0	34 8	33 6	33 7	34 8	36 1	37 3	38 0	38 0	38 0	36 8	35 4	34 4	34 0	35 4
8†	34 8	33 5	32 8	34 9	36 2	36 3	36 3	36 8	36 6	36 3	36 2	35 9	35 2	35 1	35 6
9	34 5	33 1	32 1	32 7	34 0	36 2	37 7	38 7	39 1	38 7	37 5	36 5	35 6	35 1	35 9
10	34 9	34 9	33 4	34 1	35 2	37 2	38 0	37 7	37 0	36 3	35 9	34 9	35 1	36 1	35 9
11	35 1	33 7	32 8	33 4	34 8	36 6	37 9	38 9	38 6	37 5	36 3	35 1	34 8	34 9	35 2
12	34 8	31 5	33 4	34 6	36 2	38 0	39 1	39 5	39 1	37 8	36 7	36 2	36 0	35 5	35 9
13	34 9	33 5	32 5	33 4	34 8	37 4	39 4	39 5	40 2	40 1	39 1	36 3	35 5	34 8	35 2
14	34 8	33 5	32 5	33 2	35 2	37 4	39 1	39 9	39 5	39 1	38 5	37 7	36 7	36 2	35 9
15	35 2	33 8	32 8	33 5	34 8	36 2	37 8	38 0	37 7	37 6	36 6	36 4	35 6	35 2	36 2
16	34 8	32 9	32 5	33 4	36 2	39 2	41 6	41 6	40 5	39 4	38 0	36 4	36 0	35 3	35 3
17††	35 0	33 4	32 4	33 5	35 0	37 6	40 4	41 9	42 3	41 1	39 4	37 6	36 3	35 0	34 8
18††	32 5	30 7	30 6	31 7	33 8	36 0	36 6	38 8	38 8	37 8	36 3	35 7	35 2	34 9	34 9
19	34 2	33 8	32 5	31 7	33 6	36 0	38 0	40 5	40 6	40 6	39 2	37 4	36 0	35 0	34 9
20†	35 0	33 8	32 8	32 9	34 7	36 4	38 2	39 8	39 9	39 5	39 1	37 5	36 3	35 1	35 1
21	36 0	35 1	33 9	34 7	36 1	36 5	37 4	38 1	38 4	37 9	37 8	37 4	36 7	36 3	36 1
22††	35 4	34 4	33 6	34 6	35 6	35 6	36 8	35 4	36 7	37 1	37 4	37 4	36 7	36 0	35 7
23	34 4	33 7	33 6	34 3	35 8	36 8	38 4	38 2	38 4	37 7	37 1	36 0	35 3	35 7	35 7
24††	34 7	33 9	32 2	30 8	32 3	32 5	34 3	36 3	36 5	36 7	36 5	35 3	34 3	32 9	33 6
25	34 3	33 5	33 0	33 2	34 3	35 4	36 7	37 7	37 4	37 4	37 1	35 6	34 2	34 2	34 6
26	35 1	34 2	33 6	35 0	36 8	38 0	39 3	39 6	37 9	36 4	35 5	34 5	33 7	33 7	34 5
27††	34 8	33 7	33 3	34 9	36 6	38 0	38 3	40 5	37 6	35 6	34 9	35 1	35 1	34 4	34 6
28	34 2	33 0	32 7	34 2	36 6	39 0	40 5	41 1	40 7	39 4	38 3	37 2	35 9	35 5	33 9
29	34 9	33 1	32 1	32 8	34 5	36 7	38 5	39 5	40 2	39 9	38 4	36 3	35 2	34 0	34 2
30	35 3	33 8	32 8	33 6	35 5	37 5	39 3	40 6	40 6	39 6	38 5	37 1	35 7	34 8	35 0
31	35 4	34 1	33 1	34 1	35 7	37 6	39 7	41 3	41 0	39 6	37 9	36 7	35 8	35 1	35 1
Mean	34 9	33 8	32 9	33 6	35 1	36 8	38 1	39 0	38 9	38 3	37 4	36 2	35 5	35 0	35 2
Mean†	35 2	34 2	33 3	33 9	34 2	36 6	37 4	38 2	38 3	38 0	37 3	36 4	35 7	35 3	35 5
Mean††	34 5	33 2	32 4	33 1	34 7	35 9	37 3	38 6	38 4	37 7	36 9	36 2	35 5	34 6	34 7

†Five international quiet days
 ††Five international disturbed days
 ΔLoss of record, day omitted for means

TABLE 2

Hourly values of Declination (Westerly), 1958
(Average for sixty minutes centred at the full hours of Greenwich Mean Time)

August

2° plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
									H	M	'	H	M	'	
36 4	36 7	36 4	36 3	36 0	36 2	35 7	35 9	35 5	36 1	09 30	38 5	01 40	33 5	5 0	1
36 0	36 3	36 0	36 0	36 2	36 3	36 3	36 2	36 2	36 1	08 02	41 2	02 00	32 4	8 8	2
35 3	35 9	35 9	35 9	35 9	35 9	35 9	36 0	36 0	35 9	08 30	39 1	02 44	33 2	5 9	3
36 0	36 3	36 3	36 3	36 3	36 3	36 3	36 2	36 2	35 9	06 30	38 0	02 05	33 8	4 2	4†
36 2	36 3	36 3	36 3	36 3	36 0	36 0	35 9	35 5	35 9	07 40	39 0	01 45	33 5	5 5	5†
36 2	36 3	36 3	36 2	36 0	35 7	35 5	35 3	35 3	36 3	08 46	39 2	02 30	33 5	5 7	6†
36 2	36 2	36 1	35 8	35 4	35 4	35 4	35 2	34 9	35 7	08 30	38 6	02 22	33 4	5 2	7
35 9	36 1	36 1	35 9	35 8	35 6	35 5	35 2	34 9	35 5	07 24	37 3	01 40	32 7	4 6	8†
36 2	36 1	35 8	35 8	35 6	35 4	34 9	34 9	35 1	35 7	08 25	39 4	02 00	32 0	7 4	9
35 8	35 8	35 6	35 8	35 9	36 1	35 5	36 1	35 8	35 8	06 12	38 6	01 40	33 3	5 3	10
35 8	35 9	35 9	35 9	35 9	35 5	35 4	35 2	35 2	35 7	07 05	39 1	01 54	32 7	6 4	11
36 0	36 2	36 0	36 0	35 9	35 7	35 6	35 6	35 3	36 2	07 07	39 8	01 25	33 3	6 5	12
35 3	35 6	35 2	35 2	34 9	34 9	34 9	34 9	34 9	35 9	08 28	40 4	02 00	32 4	8 0	13
36 0	36 2	36 3	36 2	35 6	35 5	35 6	35 7	35 3	36 3	07 18	40 1	02 05	32 4	7 7	14
36 3	36 3	36 2	36 0	35 7	35 3	35 2	35 3	35 0	35 8	07 30	38 1	01 36	32 7	5 4	15
35 9	36 2	35 9	35 9	35 9	35 3	35 2	35 2	35 2	36 4	06 35	41 9	01 30	32 2	9 7	16
35 9	35 0	35 0	35 0	33 8	33 9	33 5	33 5	33 2	36 0	08 00	43 2	01 34	32 1	11 1	17††
34 9	35 2	34 9	34 9	34 9	34 9	34 9	34 8	34 6	34 9	07 00	39 5	01 40	30 3	9 2	18††
35 0	35 3	35 9	35 9	36 0	35 9	35 3	35 2	35 2	36 0	08 34	40 9	01 45	31 4	9 5	19
35 4	35 8	36 0	35 7	35 6	35 4	35 7	35 7	35 7	36 1	07 42	40 2	02 34	32 5	7 7	20†
6 1	36 3	36 1	36 1	36 0	36 0	35 4	35 4	35 4	36 3	07 40	38 6	02 08	33 7	4 9	21
35 8	35 8	35 1	35 1	35 1	35 0	34 7	34 7	34 7	35 6	07 06	37 7	02 00	33 5	4 2	22††
36 0	36 1	36 0	35 6	35 1	35 3	35 3	35 0	35 0	35 9	07 14	38 9	02 00	33 5	5 4	23
34 7	34 9	35 3	35 1	35 1	35 0	35 0	34 9	34 6	34 5	09 40	37 2	03 09	30 5	6 7	24††
35 1	35 3	35 4	35 6	35 3	35 3	35 1	35 1	35 1	35 2	06 57	38 1	02 30	32 6	5 5	25
35 1	35 2	35 2	35 2	35 2	35 2	35 1	35 1	35 1	35 6	06 45	39 9	01 40	33 5	6 4	26
34 1	35 1	34 9	34 9	35 1	35 2	35 2	34 9	34 8	35 5	06 38	41 5	01 35	33 0	8 5	27††
33 9	34 8	35 1	35 1	35 3	35 3	35 1	35 5	35 5	36 2	07 12	41 4	01 25	32 4	9 0	28
35 2	35 4	35 6	35 6	35 7	36 1	35 7	35 7	35 6	35 9	08 32	40 8	02 00	32 0	8 8	29
35 4	35 5	35 7	35 8	35 8	35 8	36 1	35 8	35 5	36 3	07 15	40 7	02 00	32 7	8 0	30
35 4	35 5	35 5	35 8	35 8	36 0	35 8	35 8	35 8	36 4	07 15	41 7	02 00	33 0	8 7	31
35 6	35 8	35 7	35 7	35 6	35 5	35 4	35 4	35 2	35 9					6 9	Mean
35 9	36 2	36 1	36 1	36 0	35 8	35 8	35 7	35 5							Mean†
35 1	35 2	35 0	35 0	34 8	34 8	34 7	34 6	34 4							Mean††

†Five international quiet days.

††Five international disturbed days

ΔLoss of record ; day omitted for means.

TABLE 3

Hourly values of Declination (Westerly), 1958
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2° plus tabular quantities

September

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	35 4	34 0	32 5	32 5	33 0	35 3	38 1	39 6	39 3	38 1	36 8	35 3	34 3	34 6	35 0
2	35 3	33 6	32 6	34 0	35 9	38 5	40 9	41 6	40 5	39 2	38 0	37 0	36 7	36 4	36 4
3††	35 6	33 8	32 5	33 2	35 2	37 0	39 8	40 8	39 5	38 4	35 6	34 2	35 0	34 0	32 9
4††	32 8	31 0	31 1	32 5	34 6	36 6	38 1	39 0	38 4	38 0	36 9	36 3	36 2	36 2	35 3
5††	30 4	28 8	30 6	31 7	33 8	34 2	36 7	37 2	37 4	36 7	35 2	33 7	33 4	32 7	32 5
6	34 8	33 5	32 1	32 1	33 2	35 3	35 7	38 1	38 7	37 7	36 2	34 9	34 2	34 1	34 8
7	34 8	33 7	32 3	32 3	33 7	36 1	37 9	38 6	38 0	37 6	36 5	35 2	34 8	35 0	35 0
8	34 7	32 4	31 2	32 7	35 1	37 5	38 2	38 9	38 2	37 8	36 6	35 5	35 4	35 2	35 4
9	34 8	32 9	31 5	33 0	35 1	37 9	39 4	40 1	39 9	38 6	37 1	35 4	35 1	35 1	34 5
10	34 0	32 4	32 2	33 5	36 0	37 8	38 9	39 1	38 8	37 0	35 1	34 4	34 3	34 9	34 6
11	34 4	33 5	32 6	33 2	35 4	37 7	39 3	39 6	38 8	39 5	36 8	35 3	35 1	35 4	35 6
12	34 6	33 6	33 6	34 4	36 0	37 9	38 6	39 3	39 3	37 8	36 5	35 4	35 4	35 6	35 7
13†	35 0	33 3	32 2	32 2	34 5	36 4	39 0	40 4	40 2	39 2	38 4	37 0	35 9	35 2	35 6
14†	35 5	34 8	33 5	33 6	34 9	36 6	38 1	39 8	39 8	38 7	36 6	35 9	35 9	35 7	35 6
15	35 2	33 8	32 7	33 4	36 6	38 4	39 5	40 2	40 4	40 0	38 5	36 4	35 7	35 7	35 7
16††	35 1	34 0	33 7	△	36 0	37 6	39 1	39 2	39 5	38 8	37 8	36 4	36 3	36 3	36 0
17	33 1	31 8	32 4	34 1	35 1	37 5	39 4	38 9	37 7	36 2	34 7	33 8	34 0	34 2	34 5
18†	34 7	33 4	32 4	33 8	35 9	37 9	40 4	41 7	40 5	38 9	36 3	34 9	31 7	34 7	34 8
19	34 8	33 5	32 4	32 0	33 3	35 1	37 6	39 1	39 0	37 6	36 2	35 9	35 2	34 9	35 1
20	35 1	34 5	33 1	33 3	34 8	37 3	38 9	39 1	38 6	37 6	36 2	35 5	35 5	35 5	35 5
21†	35 1	34 5	33 1	33 5	34 9	36 9	38 7	39 7	39 0	37 5	36 1	34 8	35 1	35 5	35 2
22†	34 9	34 4	33 3	33 5	35 6	37 4	39 0	39 5	39 4	37 4	35 0	34 9	35 6	36 2	36 0
23	35 0	33 8	33 8	34 5	36 2	37 6	39 4	40 6	39 5	37 1	37 1	36 7	36 4	36 3	35 7
24	35 0	33 6	33 2	34 0	36 2	38 0	40 2	40 4	40 2	38 5	36 7	35 5	35 7	36 0	35 2
25††	34 9	34 5	34 1	35 0	36 4	37 6	38 0	36 9	34 8	33 2	32 4	32 2	31 7	30 8	31 4
26	33 2	32 1	32 5	34 2	36 2	37 8	38 1	37 6	36 6	35 9	34 8	33 6	33 5	35 5	33 5
27	34 9	34 1	33 6	34 6	35 4	36 3	36 4	36 7	37 1	36 3	35 0	34 6	34 9	35 1	35 0
28	35 1	33 9	33 6	34 9	36 3	△	△	△	△	△	△	35 0	35 4	35 8	35 3
29	35 7	35 1	34 7	35 0	35 8	37 4	37 9	38 4	38 2	37 1	36 0	35 4	36 3	36 3	36 1
30	36 1	35 1	34 7	34 4	35 3	36 5	37 9	39 1	38 1	37 1	36 4	35 1	35 1	34 7	34 7
Mean	34 6	33 4	32 7	33 4	35 2	37 0	38 6	39 3	38 8	37 7	36 2	35 2	35 0	35 0	34 9
Mean†	35 0	34 1	32 9	33 3	35 2	37 0	39 1	39 8	39 8	38 3	35 5	35 5	35 4	35 5	35 4
Mean††	34 4	32 0	32 1	33 1	35 0	36 3	38 1	38 5	37 5	36 6	35 0	34 1	34 1	33 4	33 0

†Five international quiet days.
 ††Five international disturbed days
 △Loss of record, day omitted for means

TABLE 3

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

September

2° plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
									H	M	H	M			
35 3	35 7	36 2	36 2	36 2	36 2	36 4	36 2	36 0	35 8	06 45	39 7	02 30	32 2	7 5	1
36 6	36 7	36 7	36 7	36 6	36 6	36 6	36 4	36 3	36 9	07 00	41 7	01 37	32 5	9 2	2
35 0	36 4	36 0	35 3	35 2	36 0	35 0	33 9	33 8	35 6	06 55	40 9	02 00	32 5	8 4	3 †
32 5	31 0	31 3	30 7	31 1	31 3	31 3	30 6	29 9	33 9	07 14	39 1	22 39	28 9	0 2	4 †
33 5	33 8	34 2	34 2	34 4	34 8	34 8	31 8	31 8	33 9	07 55	38 4	01 14	27 9	0 5	5 †
34 9	35 1	35 1	35 1	35 2	35 2	35 2	35 2	35 6	35 1	08 00	38 7	02 40	32 0	6 7	6
34 5	34 1	34 1	34 3	34 7	35 0	34 7	34 7	34 5	35 1	07 00	38 9	02 02	32 0	6 9	7
35 4	35 4	35 7	35 4	35 1	35 1	35 2	35 1	35 1	35 5	06 45	39 2	01 45	31 0	8 2	8
34 5	35 0	35 2	35 2	35 0	35 0	35 0	31 7	34 4	35 6	06 58	40 7	01 46	31 2	9 5	9
35 3	35 4	35 3	35 3	35 1	35 1	35 0	34 9	34 7	35 4	07 28	39 2	01 32	32 0	7 2	10
35 6	35 6	35 4	35 3	35 0	35 0	35 0	35 0	34 9	35 8	06 45	40 2	02 16	32 5	7 7	11
35 8	35 8	35 6	35 4	35 3	35 1	35 1	35 3	35 1	35 9	07 25	39 9	01 30	33 5	6 4	12
35 9	35 7	35 9	35 6	35 5	35 3	35 3	35 7	35 9	36 1	07 00	40 6	02 00	32 2	8 4	13 †
35 9	35 7	35 7	35 7	35 3	35 2	35 5	35 6	35 5	36 1	07 30	40 2	02 00	31 5	6 7	14 †
35 9	35 9	35 9	35 5	35 3	35 4	35 5	35 5	35 4	36 4	07 30	40 5	02 00	32 7	7 8	15
36 0	36 0	35 2	35 2	33 8	33 8	33 8	34 1	33 5	△	△	△	△	△	△	16 †
34 8	34 8	35 1	35 1	35 1	34 9	35 1	35 1	34 9	35 1	06 40	39 1	00 55	31 5	7 6	17
34 8	34 9	35 1	34 9	34 8	34 8	34 8	31 8	34 8	35 8	07 00	41 8	02 00	32 4	9 4	18 †
34 9	35 1	35 1	35 1	35 1	34 9	34 9	35 2	35 1	35 3	07 00	39 1	03 00	32 0	7 1	19
35 4	35 5	35 5	35 4	34 9	34 8	34 9	34 9	34 9	35 7	07 00	39 1	02 05	32 8	6 3	20
35 1	35 1	34 9	34 9	34 8	34 7	34 8	35 1	34 9	35 6	06 48	40 0	02 19	32 8	7 2	21 †
36 0	36 0	35 9	35 7	35 2	35 0	35 3	35 6	35 5	35 9	07 30	39 8	02 00	33 1	6 7	22 †
35 6	35 7	35 6	35 3	35 2	35 2	35 5	35 7	35 6	36 3	06 56	40 8	01 30	33 5	7 3	23
35 2	35 2	35 2	35 0	35 0	34 9	34 9	34 9	34 9	36 0	07 15	40 5	01 30	33 1	7 4	24
31 7	31 0	32 2	33 2	33 2	33 1	33 2	33 1	32 8	33 6	05 25	38 2	12 58	30 7	7 5	25 †
33 6	34 5	34 5	34 5	34 6	34 8	34 9	34 9	34 9	34 8	06 04	38 4	01 12	32 0	6 4	26
35 0	35 0	35 3	35 1	35 1	35 1	35 1	35 3	35 1	35 3	07 56	37 4	01 45	33 5	3 9	27
35 3	36 0	36 0	35 8	35 7	35 4	35 4	35 7	36 0	△	△	△	△	△	△	28
36 1	36 4	36 4	36 3	36 1	36 0	35 8	36 0	36 1	36 3	06 46	38 8	01 55	34 6	4 2	29
35 0	35 0	35 0	34 7	35 0	34 9	35 0	35 1	35 0	35 6	07 00	39 1	02 44	34 0	5 1	30
35 0	35 1	35 1	35 0	35 0	35 0	35 0	35 0	34 9	35 5					7 4	Mean
35 5	35 5	35 5	35 4	35 1	35 0	35 1	35 4	35 3							Mean †
33 2	33 1	33 4	33 3	33 5	33 8	33 6	33 1	32 8							Mean † †

†Five international quiet days.

††Five international disturbed days

△Loss of record, day omitted for means

TABLE 4

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

October

2° plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
1	35 1	34 6	34 4	35 7	37 4	37 9	38 1	37 4	36 8	36 5	36 0	35 7	36 0	36 1	36 1
2	35 1	35 0	35 0	35 1	36 3	37 4	37 8	38 2	37 9	37 4	37 0	36 4	36 4	36 1	35 8
3	35 4	35 0	34 6	34 3	35 3	36 5	37 8	38 8	37 9	37 4	36 4	36 0	36 0	35 3	35 1
4†	35 3	34 7	34 3	35 3	36 4	37 8	39 1	39 6	39 2	38 4	37 4	36 7	36 7	36 3	35 7
5	36 4	35 6	34 9	35 1	36 2	37 2	38 0	39 2	39 4	38 9	37 8	36 8	36 5	36 2	36 2
6	35 4	35 1	34 4	34 8	36 1	37 1	38 9	39 2	39 0	37 8	36 8	36 4	36 4	36 2	35 8
7	36 4	36 1	35 8	36 2	37 3	37 9	38 5	39 3	39 2	37 8	36 6	36 4	36 8	36 5	36 4
8	35 4	35 1	35 1	35 4	36 4	36 6	38 0	37 9	37 6	36 8	36 1	35 8	36 4	36 5	36 2
9†	36 5	36 4	36 4	36 9	38 6	39 2	39 3	39 3	38 9	37 9	36 8	36 8	37 1	36 6	36 5
10†	36 5	36 2	36 1	35 9	36 6	37 5	38 9	39 4	39 4	38 9	37 9	37 2	37 5	37 2	36 6
11†	36 4	35 4	35 0	35 4	36 6	38 2	39 2	39 3	38 3	37 5	36 6	36 5	37 1	36 8	36 5
12†	36 1	35 4	35 1	35 1	36 4	37 9	39 3	39 6	39 2	38 0	37 2	36 6	36 6	36 6	36 5
13	36 4	35 5	35 5	36 5	37 7	39 3	41 1	40 9	39 8	38 1	36 6	36 2	36 3	36 3	36 2
14	36 6	36 2	36 2	36 7	38 1	40 4	41 8	42 1	40 7	39 1	37 6	36 3	36 3	36 6	36 7
15	36 6	36 2	36 5	36 5	37 9	39 4	40 5	39 8	39 1	37 0	36 3	35 5	35 9	36 5	36 5
16	36 5	35 8	35 1	34 5	35 9	37 9	39 4	39 0	38 4	37 9	35 6	36 2	36 7	36 7	36 5
17	36 6	36 3	36 2	36 7	37 9	38 4	40 5	39 4	39 1	38 3	38 0	37 7	37 3	36 9	36 6
18	36 6	36 3	35 5	35 9	36 9	39 3	40 5	40 4	39 8	39 0	38 1	37 4	37 2	36 7	36 6
19	36 7	36 3	35 6	35 5	36 2	37 2	39 2	39 4	39 0	37 9	37 5	36 9	36 6	36 5	36 4
20	36 2	35 7	35 4	36 1	36 6	37 8	39 3	40 3	40 1	39 7	38 6	37 8	37 6	36 6	36 5
21	36 8	36 1	36 1	36 6	36 9	37 9	39 4	39 9	39 4	38 9	37 5	36 4	36 4	36 4	36 1
22††	36 1	35 5	36 1	36 6	38 2	39 2	40 6	39 0	37 9	36 5	36 4	36 4	36 1	35 5	35 2
23††	35 0	35 0	35 0	35 2	35 2	35 4	35 2	33 8	33 7	33 4	33 3	33 7	34 7	34 5	33 8
24††	35 2	35 1	36 1	36 5	36 4	36 6	37 6	37 5	36 6	34 6	32 4	31 6	32 2	31 7	31 7
25	34 7	34 8	35 5	36 4	36 8	37 9	37 8	37 1	36 1	35 3	34 7	33 9	34 9	34 9	34 7
26	35 0	35 0	35 0	35 7	36 4	37 7	37 9	37 2	36 3	35 1	35 0	35 0	35 1	35 3	35 3
27††	35 4	35 3	35 4	35 8	36 1	36 4	36 4	36 5	35 4	35 0	35 1	35 1	35 7	35 8	35 7
28††	35 7	35 3	35 3	35 4	36 1	35 1	37 7	37 7	36 4	36 1	36 0	35 6	36 3	35 1	35 1
29	36 0	36 0	35 7	35 1	35 6	36 4	36 3	36 3	35 1	35 1	35 4	36 3	36 5	36 0	35 1
30	36 3	36 3	36 3	36 4	36 4	37 4	37 2	36 5	37 5	36 5	36 3	36 0	36 1	36 1	35 7
31	36 3	36 3	36 3	36 0	36 4	37 4	37 5	37 4	37 1	37 0	36 7	36 4	36 4	36 4	36 1
Mean	36 0	35 6	35 5	35 8	36 7	37 7	38 7	38 6	38 1	37 2	36 4	36 1	36 3	36 0	35 8
Mean†	36 2	35 6	35 4	35 7	36 9	38 1	39 2	39 4	39 0	38 1	37 2	36 8	37 0	36 7	36 4
Mean††	35 5	35 2	35 6	35 9	36 4	36 5	37 5	36 9	37 9	35 2	34 6	34 5	35 0	34 5	34 3

†Five international quiet days.

††Five international disturbed days.

△Loss of record, day omitted for means.

TABLE 4

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

October

2° plus tabular quantities

Hours G. M. T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
										H	M	H	M		
36 1	36 3	36 1	35.8	35 7	35.3	35 3	35 3	35.1	36.0	05 30	38.9	01 25	34 2	4 7	1
35 7	36 0	36.0	35 7	35 6	35.3	35 4	35.3	35.6	36 1	06 45	38 5	01 28	34 9	3 6	2
35 3	35 1	35 0	34.9	35 1	35 3	35 3	35 3	35 3	35 8	06 38	39 1	02 54	33 9	5 2	3
35 7	36 0	36 1	36 1	36 1	36.0	36 0	36 0	36 4	36.6	07 15	40 0	01 48	34 2	5 8	4†
36 2	36 2	36 2	35 9	35 4	35 4	35 4	35 1	35.5	36 5	07 00	39 7	02 25	34 7	5 0	5
36 1	36 1	36 1	36 1	35 7	35.4	35 4	35.2	36 2	36 3	06 30	39 3	02 00	34 4	4 9	6
36 2	36 2	36 1	35 8	35 7	35 7	36 1	35 9	35 5	36 7	07 00	39 3	23 50	35 2	4 1	7
36 4	36 4	36 4	36 4	36.2	36.2	36.4	36 4	36 4	36.4	06 12	38 6	01 36	34 7	3 9	8
36 4	36 4	36 5	36 5	36.4	36 2	36.4	36.4	36 5	37 1	05 30	39 4	19 32	36 1	3 3	9†
36.5	36 5	36 5	36 5	36.4	36 4	36.4	36 5	36 5	37.1	07 52	39 6	02 30	35.8	3 8	10†
36 5	36 5	36 4	36.2	35.8	35.7	35.7	35.8	35 8	36.6	07 00	39 3	02 00	35.0	4 3	11†
36 5	36 5	36 5	36 4	36.1	36 1	36 1	36 1	35 8	36.7	06 45	39.7	02 00	35 1	4.6	12†
36 3	36 5	36.5	36.5	36 5	36.5	36.5	36 5	36 6	37.1	06 24	42 1	01 15	35.4	6.7	13
36 6	36 6	36 6	36 6	36.5	36.5	36 5	36 5	36 5	37 5	06 45	42 2	01 05	35 6	6 6	14
36.5	36 5	36 3	36.3	36 2	36 0	36 2	36 3	36.3	37.0	05 42	40.8	11 00	35 5	5 3	15
36 5	36.6	36.5	36.3	36 2	35.6	35 9	36.3	36.5	36 6	05 42	39.7	02 52	34.4	5.3	16
36 6	36 6	36.6	36 5	36 3	36 3	36.3	36 5	36 6	37 3	06 15	40 8	01 30	35.8	5 0	17
36 6	36 6	36 6	36 6	36 5	36 3	36 3	36 5	36 7	37.3	05 55	40 7	02 10	35.3	5 4	18
36 5	36 5	36 4	35 7	35 9	36 1	36 1	36 4	36.4	36 8	07 24	39 9	02 50	35 3	4.6	19
36.5	36 5	36 6	36 5	36 5	36 5	36 5	36 5	36 6	37 2	06 55	40 6	00 58	35.2	5 4	20
36 2	36.4	36 5	36 4	36.4	36 4	36 5	36.6	36.5	37.0	06 45	40.3	00 54	35.5	4.8	21
35.1	35.1	35 0	34 7	34.8	35.2	35.1	35 0	34.4	36 2	05 42	41 0	18 25	34.5	6 5	22††
33 7	33 6	33 6	33 7	33 8	34 5	35 1	35 1	35 2	34 4	02 58	35.7	01 30	32 7	3 0	23††
32.3	32.2	33 0	33 6	33.7	33 6	33 6	33 8	33 8	34 2	07 33	38 6	10 33	30 9	7 7	24††
34.9	35 0	35 0	35 0	35 0	34 9	34 9	35 0	35 0	35.4	04 54	38 1	00 35	34 5	3 6	25
35 3	35 1	35 0	34 9	35.0	35.0	35 0	35 1	35.4	35 5	05 50	38 1	01 00	34.7	3 4	26
36 0	36.1	35 4	35 0	33.6	34 3	34 9	35 1	35 3	35 4	06 45	36 7	19 25	33 5	3.2	27††
35.1	34 9	34 9	34 9	33.7	34.6	35 0	35 4	35.8	35.6	05 54	38 2	18 55	33.6	4 6	28††
35 3	35 3	35.3	35 4	35 3	35.1	35 6	35 4	36 0	35 6	05 12	36.7	08 15	35 0	1 7	29
35 7	35 6	35 3	35.0	35 1	35.1	35 3	36 1	36 0	36.1	08 00	37 7	18 00	35 0	2 7	30
36.3	36.4	36.3	36.1	36 1	35.8	35.8	36.3	36 5	36.5	06 00	37.5	20 35	35 7	1.8	31
35 9	35 9	35.8	35.7	35.6	35 6	35 7	35 8	35 9	36 3	.	.	.	.	4.5	Mean
36.3	36 4	36 4	36 3	36 2	36 1	36.1	36.2	36.2	.	.	.	.	.	.	Mean†
34 4	34 4	34.4	34.4	33.9	34.4	34 7	34 9	34 9	..	.	.	..	.	..	Mean††

†Five International quiet days.
 ††Five International disturbed days.
 ΔLoss of record; day omitted for means.

TABLE 5

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

November

2° plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	36 7	36 5	36 3	35 7	35 3	36 7	37 7	37 4	36 7	36 7	36 5	36 5	36 5	36 3	36 1
2††	36 5	36 5	36 7	36 3	36 3	37 5	38 1	37 9	37 1	36 8	36 8	36 7	36 5	36 4	36 3
3††	35 0	35 1	36 0	36 5	36 2	36 4	38 0	38 2	37 8	37 2	36 6	36 4	36 4	36 1	36 4
4	35 8	36 2	36 5	36 5	36 5	37 6	38 0	38 2	38 5	38 6	37 8	36 4	36 2	36 1	35 9
5†	36 4	36 2	36 4	36 2	36 4	37 6	37 9	37 8	37 6	37 5	37 6	37 1	36 9	36 5	36 5
6†	36 5	36 8	36 8	36 6	36 6	37 8	38 0	38 0	37 6	37 6	37 3	36 9	36 9	36 6	36 5
7	37 1	37 1	37 5	37 1	36 6	37 8	38 6	38 3	38 2	37 8	36 9	36 6	37 3	36 6	36 5
8†	37 1	37 3	37 5	36 9	36 9	37 8	38 0	38 2	38 3	37 9	37 8	37 8	37 5	37 3	36 6
9	37 5	37 6	37 8	37 3	37 6	38 1	38 3	38 4	38 4	38 1	38 4	38 1	38 0	37 7	37 0
10††	38 0	39 0	39 4	39 3	39 0	38 7	38 1	38 1	37 7	37 6	36 7	36 7	36 9	36 7	36 6
11††	36 6	37 4	38 6	38 4	39 5	39 5	37 4	36 6	36 5	36 5	36 2	36 6	37 0	36 6	36 5
12	36 7	37 6	37 7	37 3	37 9	38 1	38 7	38 1	37 3	36 6	36 6	36 6	37 2	36 6	36 7
13	36 7	36 7	37 2	37 0	38 0	38 5	38 9	38 1	36 7	36 3	36 1	36 6	36 8	36 7	36 6
14	36 8	36 7	37 1	37 8	38 2	39 4	39 2	38 0	37 0	36 8	36 7	37 1	37 4	37 0	36 7
15	37 1	37 7	39 1	38 8	39 2	39 4	39 5	38 1	36 1	35 4	36 3	36 3	36 4	36 4	36 3
16	36 8	36 8	37 8	39 4	39 8	40 1	39 5	38 8	38 1	38 0	37 0	36 7	36 7	36 3	36 4
17	37 1	38 0	39 2	39 2	38 9	38 6	38 3	38 2	37 5	36 8	36 4	36 4	36 4	36 5	36 4
18	37 1	37 2	37 2	36 9	36 8	37 1	38 3	39 3	38 5	38 3	37 4	36 8	36 7	36 5	36 4
19	36 9	37 4	37 2	36 9	35 7	35 8	36 9	36 9	36 4	35 7	36 4	36 5	36 9	36 9	36 5
20	37 4	37 8	38 1	37 4	36 8	37 2	38 1	37 8	37 2	36 8	36 4	36 5	36 9	37 1	36 9
21	38 2	38 3	39 5	39 6	39 6	39 6	39 8	39 7	39 0	38 4	37 9	37 7	38 0	37 7	37 0
22†	38 3	38 4	39 3	39 7	39 3	39 0	38 7	38 7	37 6	35 9	36 2	36 5	37 3	37 2	37 0
23	38 3	38 3	39 4	39 7	39 7	38 7	38 4	38 3	37 7	37 0	37 3	37 0	36 9	36 8	36 6
24	37 9	38 3	38 4	38 2	37 9	37 2	37 0	37 5	36 9	35 6	35 6	36 5	36 8	36 5	36 2
25	38 2	38 3	39 0	39 9	40 2	40 8	41 1	39 7	38 3	37 7	38 1	38 5	37 8	37 1	37 1
26	37 1	37 7	38 3	38 0	38 1	37 3	37 0	37 1	37 3	37 0	36 7	37 0	37 1	37 0	36 6
27	37 1	37 8	38 5	38 5	38 5	38 4	38 4	39 4	38 4	37 0	36 9	36 9	37 1	37 0	36 9
28††	37 1	37 7	38 4	38 4	38 5	38 4	40 6	39 8	39 7	38 1	37 1	37 0	36 9	36 7	36 0
29	37 4	38 3	38 5	38 8	39 7	40 9	40 9	40 2	38 5	37 0	36 7	36 9	37 0	36 7	36 0
30†	37 1	37 1	37 1	37 0	37 1	38 5	39 4	38 5	38 3	37 1	36 6	36 9	37 1	37 0	36 9
Mean	37 1	37 4	37 9	37 8	37 9	38 3	38 6	38 3	37 7	37 1	36 9	36 9	37 0	36 8	36 5
Mean†	37 1	37 2	37 4	37 3	37 3	38 1	38 4	38 2	37 9	37 2	37 1	37 0	37 1	36 9	36 7
Mean††	36 6	37 1	37 8	37 8	37 9	37 8	38 4	38 1	37 8	37 2	36 7	36 7	36 7	36 5	36 4

†Five international quiet days

††Five international disturbed days

△Loss of record, day omitted for means

TABLE 5

Hourly values of Declination (Westerly), 1958
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2° plus tabular quantities

November

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
										H	M	H	M		
36.3	36.4	36.3	36.0	36.1	36.1	36.1	36.3	36.4	36.4	06 00	37 8	03 30	36.1	1 7	1
36.1	35.9	35.6	35.7	35.1	35.1	35.1	35.0	35.0	36.2	06 00	38 2	17 45	34.3	3 9	2††
35.8	35.9	35.5	35.1	35.4	35.1	35.2	35.2	35.4	36.1	06 35	38 6	00 01	35.0	3 6	3††
36.1	36.2	36.2	36.2	36.1	35.9	36.1	36.1	36.2	36.7	08 50	38 7	00 01	35.8	2 9	4
36.5	36.5	36.1	36.1	36.2	36.2	36.4	36.4	36.5	36.8	05 50	38 0	00 50	36.1	1 9	5†
36.5	36.6	36.6	36.5	36.4	36.5	36.5	36.5	36.8	36.9	06 15	38 2	19 00	36.4	1 8	6†
36.4	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.8	37.0	06 12	39 0	15 00	36.4	2 6	7
36.6	36.6	36.5	36.5	36.5	36.6	36.6	36.8	37.3	37.2	07 02	38 9	17 00	36.5	2 4	8†
37.2	37.3	37.3	37.0	37.0	37.3	37.6	37.9	38.0	37.7	07 20	38 7	14 00	37.0	1 7	9
36.6	36.6	36.5	35.9	35.5	35.6	35.9	36.0	36.6	37.2	02 00	39 4	18 55	35.3	4 1	10††
36.6	36.5	36.3	36.3	36.2	36.2	36.3	36.6	36.7	37.0	04 33	40 5	20 30	35.9	4 6	11††
36.9	36.7	36.6	36.6	36.3	36.5	36.0	35.9	36.5	37.0	06 15	39 0	22 00	35.9	3 1	12
36.7	36.7	36.7	36.7	36.7	36.6	36.6	36.7	36.8	37.0	05 15	39 5	09 15	35.9	3 6	13
36.8	36.8	36.8	36.7	36.7	36.7	36.7	36.7	36.7	37.2	05 00	39 5	01 10	36.6	2 9	14
36.6	36.7	36.7	36.7	36.6	36.4	36.4	36.6	36.7	37.1	05 40	39 8	08 35	35.3	4 5	15
36.4	36.7	36.7	36.7	36.6	36.7	36.8	37.2	37.1	37.0	05 20	40 9	13 15	36.1	4 8	16
36.7	36.7	36.7	36.7	36.7	36.8	36.8	36.8	37.1	37.3	02 30	39 5	10 00	36.4	3 1	17
36.4	36.2	36.5	36.5	36.4	36.5	36.7	36.8	36.9	37.1	06 45	39 5	16 00	36.2	3 3	18
36.5	36.7	36.8	36.8	36.8	36.9	36.9	36.9	37.1	36.7	01 00	37 5	08 30	35.5	2 0	19
37.1	36.9	37.1	37.1	37.4	37.5	37.8	37.9	38.1	37.3	01 45	38 2	10 00	36.2	2 0	20
37.0	37.2	37.2	37.2	37.3	37.6	37.7	37.9	38.0	38.2	06 00	39 8	14 00	37.0	2 8	21
37.2	37.0	37.0	37.2	37.2	37.2	37.2	37.3	37.9	37.7	03 00	39 7	09 15	35.6	4 1	22†
36.9	37.0	37.0	36.9	37.2	37.5	37.7	38.0	37.9	37.8	03 20	39 8	13 48	36.3	3 5	23
36.5	36.8	36.9	37.0	37.0	37.2	37.2	37.5	37.6	37.1	01 23	38 6	09 46	35.5	3 1	24
36.9	36.3	36.9	36.9	36.4	36.6	36.6	37.0	37.1	38.0	05 45	41 2	16 00	36.2	5 0	25
36.7	36.9	36.7	36.7	36.9	36.9	36.9	36.9	37.0	37.1	02 00	38 3	14 00	36.6	1 7	26
36.9	36.9	36.9	37.0	36.9	36.7	36.4	36.6	36.9	37.0	07 00	39 5	21 18	36.3	3 2	27
36.9	36.9	37.0	37.1	37.1	37.1	37.1	37.4	37.6	37.7	06 40	41 1	13 20	35.6	5 5	28††
36.2	36.7	36.9	37.0	37.0	37.0	36.9	37.0	37.0	37.7	06 25	41 1	14 00	36.0	5 1	29
36.9	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.3	06 05	39 7	10 00	36.6	3 1	30†
36.6	36.6	36.6	36.6	36.6	36.6	36.7	36.8	37.0	37.2					3 3	Mean
36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.8	37.1							Mean†
36.4	36.2	36.0	35.9	35.9	35.8	35.9	36.0	36.3							Mean††

] Five international quiet days
 | | Five international disturbed days
 Δ Loss of record, day omitted for means

TABLE 6

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

December

2° plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1†	37.1	37.3	37.8	38.3	38.3	38.5	39.5	39.4	38.3	37.0	35.9	35.9	36.7	36.9	36.9
2	37.4	37.0	37.3	37.6	38.1	38.7	39.4	38.7	37.4	36.7	35.9	35.5	36.2	36.9	36.6
3	36.6	37.1	38.4	38.7	39.2	39.4	39.8	39.8	39.1	37.1	36.7	37.0	37.3	37.1	36.9
4††	37.1	37.1	37.0	36.9	38.0	38.3	38.3	39.0	38.1	35.6	34.2	34.3	35.3	34.6	34.2
5††	34.1	36.6	39.0	40.5	40.8	40.8	39.9	38.1	35.9	34.5	34.1	34.3	35.0	35.5	35.6
6	35.7	35.7	37.0	37.4	37.0	36.9	36.9	36.9	35.7	35.6	35.6	36.3	37.0	36.9	36.4
7†	37.0	37.4	38.4	38.4	39.0	38.4	38.4	38.6	38.2	37.2	37.0	37.9	37.2	37.0	36.9
8	37.2	37.0	37.7	37.2	37.3	38.2	38.9	39.0	37.6	37.6	37.5	37.2	37.0	37.2	37.0
9	37.3	37.7	38.3	38.5	38.1	38.2	38.2	38.5	36.9	37.4	37.2	37.1	37.6	37.2	37.1
10†	37.1	37.8	38.2	38.3	38.2	38.9	39.6	39.3	38.3	38.2	37.9	37.9	38.1	37.6	36.8
11	37.6	37.9	38.2	38.5	38.5	39.1	39.2	39.5	39.2	38.1	37.7	37.3	37.7	37.7	37.0
12†	37.5	37.8	38.9	39.4	39.4	39.1	38.2	38.1	37.5	36.7	36.6	36.7	37.0	37.0	37.0
13††	38.0	38.0	37.8	37.0	36.7	37.9	38.1	38.8	38.0	36.7	36.7	36.7	37.3	37.2	36.3
14	36.0	36.5	38.3	38.8	38.8	37.9	37.9	36.7	36.0	35.5	35.8	36.2	36.6	36.2	36.0
15	36.6	37.4	38.4	39.2	38.2	38.0	38.2	38.6	38.0	37.2	36.6	36.2	36.4	36.5	36.4
16	37.6	38.0	38.6	38.8	37.4	38.9	38.8	39.1	37.9	36.4	36.0	36.3	37.0	35.8	36.0
17††	37.9	37.9	37.9	37.8	37.8	37.8	37.7	37.5	36.7	36.7	36.3	36.3	36.7	36.7	36.5
18††	37.7	38.2	38.9	36.7	35.6	36.0	36.6	37.7	37.6	37.1	36.3	36.3	36.4	36.3	35.9
19	36.0	35.9	36.4	36.1	34.7	35.6	36.1	36.2	36.3	36.3	36.2	36.3	35.9	35.8	35.9
20	36.9	37.3	37.6	37.6	37.3	36.5	36.6	37.3	37.6	37.7	37.6	36.8	36.5	36.2	36.1
21	37.5	37.6	38.0	37.6	37.4	36.5	36.9	37.4	36.4	36.4	36.2	36.0	36.4	36.2	35.8
22	37.1	37.1	36.9	36.7	36.7	36.4	37.3	37.5	37.4	37.1	37.1	37.4	37.4	36.8	36.1
23	37.1	37.3	37.3	37.2	37.4	37.7	38.3	38.7	37.9	36.7	36.3	36.2	36.2	36.5	35.9
24	36.2	36.5	36.7	36.7	36.7	36.9	37.3	37.3	37.2	37.2	37.0	37.0	37.3	36.9	35.9
25†	36.6	37.2	37.7	37.3	37.1	37.6	38.9	39.6	38.7	37.2	36.1	36.1	36.2	36.4	36.9
26	37.6	37.5	37.3	37.0	37.0	37.1	37.9	39.1	38.6	38.1	37.4	37.0	36.8	37.0	36.8
27	36.1	36.3	36.7	36.6	36.9	36.7	36.7	37.0	37.3	37.1	37.0	36.6	35.9	36.0	35.7
28	36.3	36.4	38.0	36.3	36.1	36.8	37.0	38.2	38.2	37.9	37.2	36.8	36.5	36.6	36.1
29	35.8	36.3	37.0	36.9	37.6	38.3	38.1	38.2	38.2	36.8	36.1	35.7	36.1	36.4	35.7
30	35.5	36.4	36.5	36.5	36.9	37.1	38.5	38.2	37.2	36.7	35.4	35.5	36.5	36.8	36.0
31	36.5	36.7	36.4	36.1	35.7	36.8	38.1	38.4	37.0	37.0	37.4	37.4	37.4	36.8	36.3
Mean	36.8	37.1	37.7	37.6	37.5	37.8	38.1	38.3	37.6	36.9	36.5	36.5	36.7	36.6	36.3
Mean†	37.1	37.5	38.2	38.3	38.4	38.5	38.9	39.0	38.2	37.3	36.5	36.9	37.0	37.0	36.9
Mean††	37.0	37.6	38.1	37.8	37.8	38.2	38.1	38.2	37.3	36.1	35.5	35.6	36.1	36.1	35.7

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record, day omitted for means.

TABLE 6

Hourly values of Declination (Westerly), 1958
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2° plus tabular quantities

December

Hours G M T									Mean	Maximum		Minimum		Range	Date	
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag			
										H.	M	H	M			
37 0	37 1	37 1	37 1	37 3	37 3	37 1	37 3	37 3	37 4	06	25	39 8	10 15	35 7	4 1	1†
35 9	36 0	36 0	35 7	35 6	35 5	35 3	35 3	36 6	36 7	06	00	39 8	22 58	35 2	4 6	2
37 0	37 1	37 3	37 1	37 1	37 1	37 1	36 3	36 3	37 6	07	28	40 1	09 34	36 6	3 5	3
34 3	33 8	33 8	33 8	34 2	33 6	33 5	32 9	33 6	35 5	06	53	39 7	22 25	32 5	7 2	4†
35 7	35 9	35 9	35 9	35 9	35 9	35 9	35 9	35 7	36 6	04	42	41 1	00 01	34 1	7 0	5†
36 3	36 3	36 0	36 3	36 3	36 3	36 7	36 9	37 0	36 5	02	51	37 7	09 19	35 5	2 2	6
37 0	37 0	36 9	36 9	36 8	36 8	36 8	36 8	36 9	37 5	03	48	39 4	19 00	36 8	2 6	7†
37 0	37 0	36 9	36 9	36 8	36 8	36 5	36 6	36 9	37 3	06	30	39 7	21 15	36 2	3 5	8
37 2	37 1	37 1	36 9	36 8	36 8	36 8	37 1	37 2	37 4	06	40	39 3	19 00	36 8	2 5	9
36 8	36 8	36 9	36 9	37 1	37 1	37 2	37 2	37 4	37 7	06	30	39 7	14 00	36 8	2 9	10†
37 0	37 1	37 3	37 1	37 1	37 1	36 8	36 7	36 3	37 7	06	45	39 6	22 00	36 7	2 9	11
37 1	37 4	37 5	37 5	37 4	37 1	37 0	37 3	37 7	37 6	02	35	39 5	10 15	36 4	3 1	12†
36 2	36 0	35 8	34 6	34 8	33 9	33 8	34 8	35 2	36 5	06	36	39 3	20 55	33 7	5 6	13††
35 6	35 8	36 3	36 5	36 5	35 9	35 5	35 5	35 8	36 5	03	15	39 4	09 00	35 5	3 9	14
36 5	36 6	36 9	36 9	36 6	36 8	37 1	37 3	37 6	37 2	03	00	39 4	11 00	36 1	3 3	15
36 1	36 4	36 4	36 5	37 1	37 2	37 2	37 5	37 7	37 3	05	07	39 9	14 00	35 3	4 6	16
36 5	37 0	37 1	36 3	37 0	36 1	37 1	37 5	37 5	37 1	00	45	38 2	19 50	36 0	2 2	17††
35 9	36 0	35 9	35 3	35 0	35 2	35 0	35 0	35 0	36 3	02	00	39 2	22 10	34 9	4 3	18††
35 8	35 6	36 1	36 1	36 2	36 3	36 3	36 6	36 6	36 1	10	32	36 9	01 08	35 6	1 3	19
36 3	36 3	36 3	36 3	36 3	36 5	36 8	36 9	37 2	36 9	08	33	37 9	14 08	35 9	2 0	20
35 8	35 8	36 0	36 1	36 1	36 2	36 4	36 7	36 8	36 6	02	06	38 2	15 15	35 7	2 5	21
36 0	36 3	36 3	36 4	36 4	36 4	36 4	36 8	37 0	36 7	06	16	37 8	15 00	36 0	1 8	22
35 8	36 2	36 2	36 2	36 2	35 9	36 2	36 0	36 0	36 7	07	05	39 1	15 00	35 8	3 3	23
36 3	36 6	36 5	36 3	36 5	36 3	36 3	36 5	36 5	36 7	06	25	37 4	14 00	35 9	1 5	24
36 1	36 5	36 5	36 5	36 5	36 5	36 9	37 1	37 1	37 1	06	45	39 7	14 00	35 9	3 8	25†
36 0	36 3	36 0	35 8	36 1	36 0	36 0	36 1	36 1	36 9	07	15	39 3	18 00	35 8	3 5	26
35 6	35 9	35 9	35 7	35 7	35 9	35 9	36 2	36 0	36 3	08	03	37 7	15 00	35 6	2 1	27
35 9	35 9	36 3	36 1	36 1	36 1	35 9	36 2	35 6	36 6	07	02	38 3	23 00	35 5	2 8	28
35 7	36 1	36 1	36 1	36 2	35 7	35 4	35 5	35 4	36 5	05	10	38 5	22 45	35 3	3 2	29
36 0	36 0	36 1	36 1	36 1	36 2	36 5	36 4	36 4	36 5	06	15	38 9	00 01	35 5	3 4	30
36 0	36 3	36 4	36 6	36 4	36 7	36 7	36 6	36 7	36 8	06	45	38 8	03 30	35 6	3 2	31
36 2	36 3	36 4	36 3	36 3	36 2	36 3	36 4	36 5	36 9						3 4	Mean
36 8	37 0	37 0	37 0	37 0	37 0	37 0	37 1	37 3								Mean†
35 7	35 7	35 7	35 2	35 4	34 9	35 1	35 2	35 4								Mean††

†Five international quiet days.
 ††Five international disturbed days.
 △Loss of record, day omitted for means.

TABLE 7

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

July

39,000 plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	479	482	485	520	538	560	574	570	578	562	539	510	489	489	483
2†	485	497	518	543	573	597	599	590	584	566	542	529	518	515	508
3	493	501	488	535	564	593	622	630	617	587	569	533	515	511	509
4	502	516	525	540	560	594	616	646	619	576	513	516	504	504	497
5	491	500	510	544	577	590	597	586	565	545	537	517	512	512	499
6†	511	517	534	550	565	615	630	612	597	566	547	534	528	525	516
7	509	521	535	560	595	628	641	643	628	599	570	547	543	543	533
8††	505	513	536	559	597	630	656	666	687	660	611	516	397	403	413
9††	162	211	256	284	302	309	295	295	303	298	329	328	321	318	301
10	413	400	411	450	491	511	548	551	533	516	493	469	455	444	442
11	444	443	446	476	521	565	596	599	583	557	531	495	476	453	456
12	476	485	508	535	547	554	582	596	567	537	504	490	481	475	469
13	477	479	484	509	567	623	613	603	573	542	518	496	482	474	471
14	493	496	500	523	538	559	592	612	615	610	547	513	483	478	474
15†	478	473	474	492	527	566	602	628	612	585	555	521	494	487	485
16†	482	489	494	514	546	575	599	605	591	566	535	513	505	499	492
17	487	499	512	554	589	640	621	598	580	569	508	496	492	494	493
18††	483	494	508	536	560	574	634	603	577	546	537	518	489	489	486
19	485	493	502	534	562	590	621	639	565	536	515	500	491	495	496
20	482	487	479	492	513	589	593	627	594	565	539	511	484	468	469
21††	486	482	484	489	554	567	623	603	580	555	544	513	505	505	501
22	473	471	474	493	506	524	551	552	565	565	549	506	494	509	490
23†	490	493	505	525	551	574	595	603	606	598	576	548	519	508	503
24	493	492	496	504	547	581	603	600	588	571	557	541	534	519	515
25	499	511	519	552	588	606	643	628	585	564	524	540	464	477	477
26	467	468	471	510	551	593	611	627	597	573	543	530	512	503	497
27††	487	491	533	565	605	662	657	644	605	550	536	526	487	463	454
28	454	465	477	478	537	581	605	624	604	590	567	539	525	517	502
29	500	502	520	554	596	626	642	650	630	604	566	531	520	523	520
30	504	506	524	550	584	609	635	616	604	587	571	552	534	523	509
31	495	503	526	560	604	648	652	635	611	585	543	509	499	500	499
Mean	474	480	491	517	550	582	602	603	585	562	536	512	492	488	483
Mean†	489	494	505	525	552	585	605	608	598	576	551	529	513	507	501
Mean††	424	438	463	487	524	548	573	562	550	522	506	480	440	456	431

† Five international quiet days

†† Five international disturbed days

△ Loss of record, day omitted for means

TABLE 7

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

July

39,000γ plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H. M.	γ	γ	
479	475	475	479	481	483	488	486	481	508	06 23	597	16 26	473	124	1
503	500	499	501	500	501	497	493	491	527	06 15	613	00 01	484	129	2†
502	499	485	480	485	495	495	495	497	529	06 30	640	18 10	477	163	3
485	483	471	476	474	482	480	483	492	523	07 25	663	17 04	469	194	4
496	501	501	501	507	508	508	500	516	525	06 06	601	00 01	489	112	5
511	511	511	511	514	514	514	514	510	540	06 11	637	23 45	508	129	6†
521	521	534	533	517	516	515	506	504	553	07 48	652	23 04	501	151	7
348	218	164	151	70	52	101	110	145	405	07 58	786	19 24	—4	790	8††
325	349	382	382	385	390	399	405	401	322	23 58	419	00 01	161	258	9††
442	444	444	444	448	447	444	445	450	464	06 56	572	01 50	398	174	10
440	456	456	461	466	470	466	470	466	492	06 27	620	00 38	441	179	11
472	475	472	462	472	481	474	474	476	503	06 48	617	18 02	457	160	12
471	475	486	478	479	483	483	488	496	510	05 18	638	14 18	469	166	13
472	478	470	476	476	474	474	474	478	513	07 34	625	17 08	469	156	14
481	478	476	473	474	477	480	484	484	512	06 45	634	01 18	471	163	15†
486	486	483	482	479	480	479	479	484	514	06 41	608	18 50	476	132	16†
493	494	493	491	488	486	484	484	482	522	04 34	658	23 26	481	177	17
479	483	480	475	472	470	465	465	480	514	06 02	660	18 32	465	192	18††
492	495	493	493	491	492	492	479	483	518	06 38	655	22 40	476	179	19
473	481	478	479	482	486	484	483	490	509	07 06	638	12 57	466	172	20
497	497	528	495	473	482	479	476	484	517	06 11	650	21 19	447	203	21††
482	491	491	491	492	490	493	490	490	505	08 19	584	02 04	462	122	22
501	500	500	500	499	499	499	498	495	493	08 36	611	00 02	488	123	23†
513	509	502	491	490	487	496	505	499	526	06 30	611	20 00	484	128	24
468	469	469	467	477	472	470	468	473	517	06 23	672	17 51	456	216	25
490	487	486	486	486	487	491	488	488	518	06 34	640	00 31	464	176	26
457	451	444	436	427	427	430	437	445	509	05 27	685	19 18	420	265	27††
497	493	493	494	498	503	508	508	503	523	06 55	635	00 01	452	183	28
510	507	505	505	514	510	506	502	502	544	06 40	652	00 22	497	155	29
503	499	491	488	486	492	489	494	494	535	05 57	650	21 18	483	167	30
497	503	485	497	499	500	498	491	497	535	05 40	669	17 02	480	189	31
477	475	473	470	468	469	471	471	473	509					188	Mean
496	495	494	493	493	494	494	493	492							Mean†
421	400	400	388	365	364	379	383	391							Mean††

†Five international quiet days

††Five international disturbed days.

ΔLoss of record, day omitted for means.

TABLE 8

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

August

39,000γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	500	507	525	558	582	603	613	609	600	597	586	537	491	501	499
2	493	506	531	566	593	625	619	628	611	570	543	530	512	503	494
3	508	506	508	532	573	602	619	622	609	583	547	507	492	503	505
4	494	503	523	552	579	620	622	618	616	601	586	570	540	521	512
5†	503	502	511	541	566	598	617	643	652	628	596	558	524	520	517
6†	501	506	523	550	595	645	673	683	678	652	613	578	543	532	528
7	513	520	526	554	579	623	665	686	675	631	571	525	497	491	506
8†	503	511	531	565	605	641	648	640	613	595	569	544	532	531	520
9	503	509	525	573	626	645	664	664	643	651	589	559	543	536	529
10	517	519	528	557	591	638	657	622	578	571	560	530	534	536	511
11	526	532	545	564	592	628	615	613	583	561	532	538	545	513	506
12	514	521	541	578	596	640	624	592	564	545	534	528	529	530	523
13	517	522	542	577	637	676	687	627	610	600	562	517	512	510	511
14	499	508	529	557	609	656	674	669	644	607	577	552	539	530	521
15	508	508	523	571	628	640	674	656	607	604	575	547	535	534	530
16	513	523	541	565	599	729	726	708	677	640	599	558	539	532	520
17††	506	515	537	564	604	636	680	728	680	593	546	510	509	511	497
18††	419	453	480	528	572	598	537	561	550	520	502	500	494	476	468
19	462	465	477	522	572	507	624	625	617	599	564	535	515	500	491
20†	494	496	497	521	574	608	643	643	630	612	587	557	534	521	512
21	505	508	522	559	600	617	626	620	607	596	585	565	553	537	525
22††	514	516	529	576	611	585	608	507	571	585	578	557	522	500	518
23	492	499	517	548	605	603	632	613	603	591	576	554	536	520	508
24††	496	504	540	515	506	465	498	557	570	534	513	478	531	406	431
25	461	455	474	488	544	565	591	585	560	557	540	514	496	482	469
26	475	480	493	526	595	607	624	617	577	537	508	474	457	460	463
27††	475	482	498	560	621	655	570	627	490	457	437	456	453	441	428
28	461	469	489	528	576	610	627	621	607	584	549	528	510	491	484
29	465	472	499	537	579	630	638	626	628	596	553	514	494	493	485
30	481	489	519	561	605	622	662	672	646	608	584	550	526	516	502
31	498	502	517	554	592	647	672	666	646	597	562	533	521	513	499
Mean	494	500	517	550	591	621	633	631	611	587	559	532	587	506	500
Mean†	499	504	517	546	584	622	641	645	638	618	590	561	535	525	518
Mean††	482	494	517	549	583	588	579	596	572	538	515	500	502	467	468

†Five international quiet days

††Five international disturbed days

ΔLoss of record, day omitted for means

TABLE 8

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

August 39,000γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
500	498	494	494	496	492	491	493	493	532	05 57	622	12 20	487	135	1
496	494	493	500	503	502	501	501	506	534	05 23	639	16 36	490	149	2
502	497	490	490	489	492	494	494	492	527	06 55	624	18 32	488	136	3
510	508	508	506	505	506	505	504	504	542	06 26	630	00 01	493	137	4†
506	504	503	508	507	508	508	506	501	543	07 32	656	22 30	499	157	5†
525	524	525	524	525	523	522	520	516	563	06 46	686	00 04	500	186	6†
508	506	504	503	500	501	506	504	500	546	06 58	691	12 53	483	208	7
506	507	510	510	511	511	510	511	507	547	06 30	653	15 34	502	151	8†
526	521	517	519	518	516	509	511	514	559	06 30	674	00 01	501	173	9
506	503	506	508	510	508	515	513	517	543	06 06	669	16 26	498	171	10
502	502	502	501	511	515	513	515	514	540	04 36	633	18 10	500	133	11
519	519	520	522	527	527	524	519	515	544	04 38	656	00 28	511	145	12
509	508	507	506	503	503	503	501	498	548	06 08	703	23 30	497	206	13
517	519	519	514	511	508	506	509	511	554	06 15	679	00 18	497	182	14
521	516	517	514	514	512	514	514	514	553	06 21	682	00 34	506	176	15
511	503	491	499	503	503	505	506	506	562	05 12	761	17 16	487	274	16
500	499	481	450	395	418	396	420	404	524	06 32	778	20 56	384	394	17††
464	464	465	466	468	471	471	470	468	494	04 40	625	00 02	417	208	18†
491	496	500	501	503	500	496	496	496	527	06 25	641	00 36	461	180	19
510	511	512	507	505	505	505	502	502	541	07 34	653	02 00	490	163	20†
523	523	518	519	518	519	513	509	516	549	06 19	629	00 20	504	125	21
491	483	478	478	479	485	487	488	489	526	03 58	645	06 54	471	174	22††
505	504	501	497	498	498	501	501	499	538	05 50	658	00 34	490	168	23
441	433	443	455	454	460	460	460	459	484	04 45	614	05 15	261	353	24††
469	471	471	472	475	475	475	477	475	502	06 54	606	01 07	448	158	25
466	466	466	467	474	475	473	475	473	505	06 30	630	11 52	454	176	26
429	429	421	434	441	461	454	453	461	485	05 04	678	17 42	417	261	27††
465	463	464	460	472	462	465	476	471	514	06 19	636	18 02	454	182	28
483	483	483	484	489	488	487	485	484	524	06 06	652	00 20	462	190	29
501	500	499	497	497	498	502	498	499	543	07 11	680	00 06	479	201	30
495	493	485	492	496	497	501	499	499	541	06 04	678	17 00	483	195	31
497	495	493	493	493	495	494	495	494	533					189	Mean
511	511	512	511	511	511	510	509	506							Mean†
465	462	458	457	447	459	454	458	456							Mean††

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record, for day omitted for means.

TABLE 9

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

September

39,000γ plus tabular quantities

Date	Hours G M T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	498	497	510	546	606	652	679	671	646	602	566	545	524	517	508
2	506	508	528	566	601	633	627	604	579	568	562	556	541	523	518
3††	501	500	523	573	645	697	707	682	645	632	539	505	510	492	423
4††	405	399	422	487	525	563	563	560	558	560	537	522	511	497	475
5††	265	241	251	318	379	361	418	417	442	418	402	364	357	354	343
6	395	391	398	431	483	533	540	551	539	516	496	479	468	428	452
7	454	458	481	528	574	623	618	609	575	557	531	510	499	493	481
8	463	453	472	505	556	578	603	599	582	561	533	509	507	504	493
9	499	488	490	536	586	616	620	609	580	558	533	513	514	504	471
10	477	478	509	554	610	641	638	615	584	548	521	515	510	496	483
11	493	488	501	547	613	639	634	613	586	572	546	534	532	521	511
12	494	500	525	539	613	648	663	648	608	572	551	537	537	528	517
13†	496	493	516	560	607	655	688	682	647	607	581	562	549	534	554
14†	508	509	539	591	648	696	717	695	641	611	569	555	552	542	531
15	508	508	530	564	648	698	725	695	673	620	582	559	558	546	541
16††	505	509	530	575	666	663	647	635	641	614	602	576	562	548	512
17	459	466	489	533	570	590	591	570	543	515	507	509	497	490	489
18†	485	483	501	538	580	619	629	625	602	577	553	535	532	524	525
19	500	496	505	537	586	633	653	642	622	598	578	558	543	529	525
20	512	510	527	570	623	675	687	671	633	599	579	569	558	544	537
21†	515	516	535	583	641	678	686	648	606	573	558	555	556	544	535
22†	516	518	535	585	635	645	678	658	630	597	572	563	562	551	542
23	519	522	555	596	646	677	684	623	614	594	577	575	570	553	540
24	522	528	562	617	669	699	698	675	628	583	551	536	545	533	525
25††	523	531	539	581	684	726	624	538	441	399	395	397	342	339	322
26	439	446	438	502	530	545	553	510	486	469	472	458	448	426	420
27	464	472	499	542	566	587	577	563	553	542	525	513	502	487	475
28	482	488	523	582	621	634	616	606	580	552	541	526	520	503	495
29	498	498	519	568	628	695	699	660	635	586	557	540	538	527	521
30	504	502	519	561	618	680	683	658	632	593	583	558	527	496	485
Mean	480	480	499	544	599	633	640	618	591	563	540	524	516	504	491
Mean†	504	504	525	571	622	658	680	662	625	593	567	554	550	539	533
Mean††	440	436	453	507	580	602	592	566	545	525	495	473	456	446	415

†Five international quiet days

††Five international disturbed days.

△Loss of records, day omitted for means.

TABLE 9

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

September

39,000γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
503	500	501	502	504	506	507	506	507	546	06 18	684	00 50	494	190	1
510	517	514	514	512	512	510	512	508	543	05 30	638	23 45	501	137	2
428	457	437	423	434	445	418	385	408	517	05 46	721	21 41	378	313	3††
351	263	285	194	170	136	191	180	255	400	08 54	586	20 25	109	477	4††
349	360	372	376	389	404	397	400	394	365	07 35	517	00 55	216	301	5††
451	451	451	452	455	458	456	456	454	467	06 30	554	01 30	387	167	6
461	441	438	438	443	467	456	456	455	502	05 16	640	16 20	435	205	7
490	488	489	488	480	489	490	483	498	513	06 15	616	01 02	450	166	8
456	464	471	471	473	477	479	475	486	516	06 07	654	14 56	452	202	9
486	492	493	493	492	490	490	488	488	525	05 52	649	00 58	474	175	10
502	498	497	497	495	496	497	499	498	534	04 51	647	02 08	475	172	11
513	509	506	503	501	501	501	502	502	542	05 14	669	00 01	492	177	12
521	519	517	515	514	512	510	514	512	557	06 07	693	00 40	492	201	13†
529	525	522	518	517	514	515	513	510	565	05 30	726	00 20	504	222	14††
538	523	533	524	518	534	532	523	512	571	05 41	735	00 26	492	243	15
506	503	475	460	436	449	466	475	469	545	04 20	708	19 15	429	279	16††
486	486	486	490	493	492	492	489	488	510	04 30	620	00 08	455	165	17
511	510	507	503	510	506	501	503	504	536	06 30	633	00 50	480	153	18†
521	521	521	521	520	515	516	518	515	549	06 08	657	00 48	493	164	19
533	532	531	526	524	521	521	516	518	563	05 30	703	00 41	506	197	20
531	528	526	525	524	520	526	524	520	561	06 02	692	00 54	513	179	21†
538	536	532	529	526	525	525	525	523	564	05 32	684	00 43	515	169	22†
534	527	523	523	522	525	524	523	521	565	05 52	698	00 34	514	184	23
519	514	510	508	512	516	520	520	519	563	05 12	710	17 35	506	204	24
304	338	333	366	374	382	414	409	423	447	04 15	771	15 05	287	484	25††
418	426	434	440	446	450	463	464	463	464	04 49	539	15 06	414	145	26
476	475	474	476	478	474	479	492	483	511	05 04	559	00 04	463	128	27
490	491	496	498	499	499	499	500	499	531	05 30	642	00 48	479	163	28
518	517	516	514	510	508	507	507	507	553	05 22	710	00 45	496	214	29
485	476	460	454	469	474	475	494	498	537	06 08	687	17 50	445	242	30
482	480	478	475	475	477	479	478	481	522					215	Mean
526	524	521	518	518	515	517	516	514							Mean†
388	384	380	364	361	363	377	370	390							Mean††

†Five international quiet days

††Five international disturbed days

ΔLoss of record; day omitted for means.

TABLE 10

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

October

39,000γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	503	505	528	576	624	658	666	609	571	563	550	543	536	527	516
2	505	496	508	544	583	611	623	617	599	579	558	539	532	520	513
3	510	506	521	559	623	656	664	639	585	580	571	551	524	514	500
4†	495	504	526	559	589	639	662	640	612	599	579	562	547	529	517
5	508	519	527	572	636	675	675	656	625	602	583	569	549	535	528
6	515	513	531	577	622	650	666	650	623	592	573	567	556	540	521
7	528	532	556	589	651	674	674	631	596	562	540	533	532	521	518
8	514	518	532	563	599	611	648	616	585	566	544	538	538	528	523
9†	521	525	554	600	631	677	652	626	590	564	550	551	553	540	529
10†	523	528	560	606	652	680	697	678	640	604	577	566	565	554	545
11†	519	522	555	609	646	672	672	651	611	573	563	562	567	553	544
12†	527	532	562	606	667	707	719	698	627	614	589	580	571	558	549
13	529	527	547	600	650	709	726	677	639	591	543	539	544	527	519
14	525	523	543	585	670	725	751	714	659	610	574	561	564	557	548
15	529	522	555	618	678	713	720	703	653	601	575	561	559	549	542
16	531	526	548	589	650	688	684	627	614	600	587	573	562	547	536
17	531	527	546	599	656	639	671	641	630	619	604	586	572	555	547
18	531	528	538	575	630	688	696	682	668	630	613	586	564	549	540
19	528	531	555	590	634	679	708	697	665	630	613	578	561	545	544
20	519	519	529	559	594	622	635	630	624	615	603	592	573	552	544
21	538	539	574	600	608	629	649	643	632	619	598	574	552	536	531
22††	531	540	553	595	664	657	659	570	523	477	503	517	499	465	461
23††	467	479	510	550	541	528	504	460	448	439	429	441	439	417	405
24††	450	451	441	502	502	515	518	521	547	450	376	346	345	276	267
25	402	412	427	470	497	529	532	521	521	506	501	491	476	456	450
26	453	459	491	538	588	634	641	611	578	527	508	505	494	487	485
27††	479	485	505	532	544	579	571	581	561	551	546	534	523	512	502
28††	453	468	493	533	565	597	594	607	595	548	510	499	484	460	461
29	478	483	483	509	546	573	555	568	544	537	528	524	516	501	496
30	488	487	507	556	588	627	631	622	605	579	559	538	518	500	501
31	511	506	521	548	606	630	631	626	618	603	592	569	553	543	528
Mean	505	507	527	568	611	630	648	626	600	572	553	541	538	515	507
Mean†	517	522	551	596	637	671	680	659	616	591	572	564	561	547	537
Mean††	476	485	500	542	563	575	569	550	535	493	473	467	458	426	417

†Five international quiet days

††Five international disturbed days

ΔLoss of record, day omitted for means

TABLE 10

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

October

39,000γ plus tabular quantities

Hours G M T									Mean	Maximum			Minimum			Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag	Time	Mag		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M	γ	H	M	γ	γ	
513	511	508	506	507	499	502	502	505	543	05	27	700	20	02	495	205	1
508	505	507	506	505	505	502	503	512	537	05	40	632	01	26	490	142	2
493	472	456	477	475	484	494	493	494	535	06	34	683	17	00	452	231	3
512	515	515	514	513	513	516	521	516	550	06	00	680	00	08	493	187	4†
523	518	520	509	509	511	510	509	517	558	05	27	707	00	01	505	202	5
526	529	524	523	526	524	526	523	529	559	05	42	677	01	12	509	168	6
517	512	500	504	506	509	510	515	515	551	05	56	698	16	50	498	200	7
520	520	519	518	518	517	519	519	520	546	06	07	660	00	14	513	147	8
526	526	524	523	522	523	527	528	522	556	05	05	666	00	28	519	147	9†
541	535	528	528	531	529	528	520	526	573	06	02	700	00	26	522	178	10|
540	537	535	533	528	527	530	534	530	567	05	26	678	00	35	515	163	11|
547	544	541	540	540	535	536	540	535	582	05	40	721	00	22	526	195	12†
522	526	520	522	528	531	532	534	531	567	06	20	736	17	38	517	219	13
541	539	538	536	536	537	536	534	536	581	05	58	758	00	48	519	239	14
537	529	528	534	531	528	534	537	534	578	05	40	736	00	50	519	217	15
534	531	528	529	528	525	525	528	530	567	05	35	700	20	15	522	178	16
541	535	531	528	532	534	529	526	530	571	06	10	682	01	15	522	160	17
535	527	531	532	531	529	526	528	532	575	05	52	708	21	30	524	184	18
535	529	519	505	506	514	517	519	518	572	06	06	716	18	45	501	215	19
541	535	534	537	536	537	534	534	540	564	06	02	641	01	58	516	125	20
527	524	527	522	525	528	529	532	532	565	05	35	665	18	10	521	144	21
462	441	442	430	427	459	461	450	451	510	05	40	708	19	10	421	287	22††
389	378	380	382	399	430	435	456	447	448	02	54	566	16	58	375	191	23††
283	292	330	351	380	429	372	384	402	405	07	30	616	13	35	215	401	24††
447	450	451	450	451	451	453	452	449	469	06	43	540	00	22	401	139	25
476	459	455	455	461	470	476	477	480	509	05	43	661	16	30	452	209	26
503	499	472	457	390	387	439	446	437	502	04	52	527	19	26	375	212	27††
451	427	437	464	449	455	464	475	475	499	07	45	672	16	26	421	251	28††
490	492	486	493	492	496	509	493	490	512	04	56	585	02	16	466	119	29
486	482	493	480	483	490	489	512	512	531	06	06	642	18	18	474	168	30
529	525	520	519	519	517	520	524	528	554	04	28	646	16	18	499	147	31
503	498	497	497	496	501	503	505	506	540	.	.	.	.	.	193	Mean	
533	531	529	528	527	525	527	530	526	.	.	.	.	.	.	.	Mean†	
418	407	412	417	409	432	434	442	442	.	.	.	.	.	.	.	Mean††	

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record, day omitted for means.

TABLE II

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

November

39,000γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	527	530	553	595	622	654	666	666	640	611	598	585	564	551	547
2††	523	524	541	572	613	651	666	669	652	630	595	579	562	535	501
3††	483	483	495	533	561	547	590	604	601	584	566	543	523	504	491
4	503	506	529	557	572	611	613	630	620	599	585	564	541	518	521
5†	515	525	545	560	577	590	600	602	596	584	571	559	533	538	534
6†	526	539	564	586	614	640	649	647	635	617	593	577	567	555	549
7	536	540	555	579	598	608	622	611	610	596	585	570	559	535	501
8†	535	547	564	582	598	607	606	603	596	586	574	564	553	538	531
9	522	533	558	590	611	622	619	615	611	612	599	582	566	553	546
10††	551	565	590	613	640	645	637	614	595	598	571	535	539	532	523
11††	500	530	551	525	572	601	546	539	534	536	523	523	520	508	502
12	505	523	544	565	578	590	596	591	578	566	555	538	532	516	517
13	504	511	517	573	609	608	581	564	554	547	539	536	535	529	522
14	516	523	551	594	638	653	629	604	578	559	551	533	550	541	532
15	524	535	566	591	633	651	644	615	582	562	561	560	553	541	533
16	529	528	544	591	622	632	633	607	608	609	581	558	545	523	512
17	523	533	557	574	602	638	625	627	612	583	566	553	543	532	523
18	528	527	538	566	583	600	630	639	628	602	575	549	538	523	517
19	517	526	515	549	558	561	557	547	555	555	551	541	531	513	504
20	510	516	535	559	583	603	618	615	609	594	576	557	539	530	522
21	517	528	552	576	595	608	615	602	599	592	576	564	545	524	515
22†	516	526	541	562	577	581	581	586	603	595	592	572	550	528	530
23	529	533	556	585	617	622	641	635	615	597	564	565	536	513	501
24	515	530	550	569	579	585	591	591	562	538	521	513	501	478	487
25	513	524	545	559	591	596	597	582	586	588	592	580	554	536	516
26	479	487	501	518	541	554	558	562	560	548	536	526	515	499	490
27	501	516	542	564	581	579	555	574	579	560	539	521	519	510	499
28††	489	497	515	552	580	565	626	616	604	593	560	531	501	490	507
29	504	513	526	560	593	601	593	608	590	552	548	539	516	495	484
30†	500	510	530	565	572	605	615	607	590	571	560	551	565	526	523
Mean	515	524	542	569	594	607	610	606	596	582	568	553	541	524	516
Mean†	518	529	549	571	588	605	611	609	604	591	578	565	558	537	533
Mean††	509	520	525	559	593	602	613	608	597	588	563	542	533	514	505

†Five international quiet days
 ††Five international disturbed days
 ΔLoss of record, day omitted for means.

TABLE II

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

November

39,000γ plus tabular quantities

Hours G M T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
553	542	533	526	524	522	526	530	528	570	07 10	671	00 28	526	145	1
466	431	401	434	474	481	481	483	482	539	06 36	673	17 08	392	281	2††
491	485	484	488	497	495	500	506	503	523	07 54	613	01 34	479	134	3††
521	520	520	520	514	513	519	517	512	547	06 58	632	00 54	500	132	4
534	530	529	528	528	526	526	526	525	550	05 53	605	00 01	515	90	5†
544	538	534	530	530	532	531	532	538	569	05 39	651	00 01	525	126	6|
512	517	525	526	526	529	529	532	535	556	06 10	626	15 30	509	117	7
525	520	517	516	517	519	521	521	521	553	06 50	608	17 45	515	93	8†
543	542	540	541	540	544	548	551	551	568	05 37	630	00 01	520	110	9
519	514	497	476	480	495	501	496	501	551	05 35	654	17 58	472	182	10††
501	498	495	499	501	501	503	503	504	521	05 15	616	17 00	491	122	11††
517	510	509	508	510	517	510	505	505	537	06 08	607	18 50	502	105	12
519	517	515	519	517	516	516	518	517	537	05 11	632	00 06	504	128	13
532	532	531	530	531	530	528	527	522	556	04 54	654	00 04	515	139	14
531	534	532	531	530	529	528	528	527	559	04 58	656	00 01	523	133	15
509	515	519	519	521	521	520	523	523	554	05 30	673	15 15	508	165	16
521	517	517	522	523	526	527	528	531	554	05 00	648	16 10	515	133	17
511	510	511	509	502	506	511	519	517	547	07 22	649	19 45	502	147	18
496	501	507	509	512	510	512	512	509	527	05 52	568	15 10	494	74	19
517	511	513	517	519	519	517	518	517	546	06 02	623	00 01	508	115	20
511	510	513	521	525	522	522	520	516	549	05 35	620	15 45	508	112	21
528	525	526	526	525	524	525	526	528	549	08 00	605	00 01	511	94	22†
511	511	504	506	513	516	515	512	512	552	05 46	647	13 48	491	156	23
490	496	498	501	502	504	513	516	515	527	06 23	597	13 06	474	123	24
494	481	475	479	455	454	455	463	472	529	05 30	607	19 30	448	159	25
486	481	478	484	499	501	499	496	499	512	06 38	568	17 08	473	95	26
491	481	487	504	496	491	487	485	487	523	04 19	588	11 15	477	111	27
516	511	513	513	507	500	500	504	507	533	06 38	664	12 50	484	180	28††
472	481	191	496	499	498	498	499	500	527	04 50	617	15 18	467	150	29
523	521	519	520	519	521	517	513	513	544	06 04	620	00 01	498	122	30†
513	509	508	510	511	512	513	513	514	544					132	Mean
531	527	525	524	524	524	524	524	525							Mean†
499	488	478	482	492	494	497	498	499							Mean††

†Five international quiet days
 ††Five international disturbed days.
 ΔLoss of record; day omitted for means.

TABLE 12

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

December

39,000γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1†	513	522	545	578	611	638	648	637	616	593	580	571	553	538	530
2	522	517	530	561	593	608	621	632	622	610	570	527	474	443	420
3	489	484	498	532	501	579	590	593	586	571	558	545	526	511	508
4††	506	527	533	549	590	617	581	595	604	543	477	467	449	430	407
5††	333	367	389	423	431	458	459	457	446	457	463	467	449	428	425
6	449	455	467	486	493	496	495	501	508	515	504	491	481	464	451
7†	473	484	504	526	558	572	558	559	560	556	549	538	518	504	501
8	498	500	514	536	505	585	597	605	600	596	574	548	523	514	502
9	508	504	496	520	545	564	574	597	516	529	535	534	524	513	515
10†	505	512	524	537	553	574	593	566	555	546	535	530	525	522	519
11	513	523	545	564	588	608	611	619	611	570	567	548	544	540	532
12†	522	526	534	547	570	584	591	598	595	588	567	552	541	534	528
13††	514	523	532	530	543	606	600	599	604	590	576	570	555	497	430
14	446	449	488	529	556	547	544	537	516	502	505	518	516	489	459
15	467	476	508	545	582	615	626	620	595	563	555	537	522	511	507
16	521	536	572	588	610	670	654	648	620	569	557	565	529	489	496
17††	528	529	542	554	589	621	631	627	600	570	532	528	522	513	514
18††	434	442	449	428	434	481	482	514	509	499	497	488	478	475	463
19	466	455	464	475	467	501	492	490	505	504	491	492	477	477	478
20	491	492	498	522	546	571	584	575	568	562	557	542	525	505	494
21	501	507	526	544	564	582	570	582	565	559	545	532	519	507	499
22	501	495	504	527	571	589	627	608	571	542	528	535	533	525	516
23	514	513	529	559	606	634	669	682	635	574	539	526	527	522	495
24	495	496	507	524	561	600	616	597	577	548	529	527	526	518	515
25†	515	522	541	561	594	628	654	659	639	601	579	558	540	528	520
26	546	537	530	540	566	600	635	654	631	594	575	561	543	521	506
27	510	508	505	523	571	580	585	590	595	579	553	512	491	495	501
28	509	512	526	544	576	622	630	628	619	588	565	542	532	524	516
29	500	496	505	524	554	606	607	616	617	587	557	540	535	526	516
30	506	505	513	555	591	646	688	674	627	575	540	537	534	525	521
31	506	510	513	534	570	615	628	607	573	554	545	541	539	532	529
Mean	494	498	511	531	558	587	595	596	580	559	542	531	518	504	494
Mean†	506	513	530	550	577	599	609	604	593	577	562	550	535	525	520
Mean††	463	478	489	497	517	557	551	558	553	532	509	504	491	469	448

†Five international quiet days

††Five international disturbed days.

△Loss of record, day omitted for means.

TABLE 12

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

December

39,000γ plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M.	γ	γ	
527	525	525	527	528	527	525	525	522	559	06 20	651	00 01	512	139	1†
414	428	439	433	440	451	452	493	494	512	07 00	647	14 42	405	242	2
510	513	514	512	511	507	505	510	509	530	06 26	604	00 58	480	124	3
353	318	309	306	365	326	313	317	348	451	05 06	650	18 10	304	346	4††
429	434	438	438	444	442	442	443	445	434	10 48	470	00 01	330	140	5††
442	438	442	454	458	466	467	466	475	473	09 00	522	16 30	435	87	6
502	502	500	498	498	500	499	497	497	520	05 24	580	00 01	472	108	7†
493	487	493	501	500	501	508	505	502	531	07 24	608	16 15	483	125	8
520	515	517	509	508	508	508	508	506	524	06 59	624	01 53	487	137	9
517	518	516	514	514	514	513	512	512	530	06 26	601	00 06	503	98	10†
530	526	524	525	522	518	509	510	528	549	06 45	629	22 04	503	126	11
526	525	524	524	519	522	515	512	512	544	07 06	602	21 40	509	93	12†
393	391	384	354	378	371	392	430	436	492	05 18	634	18 18	341	293	13††
442	443	443	447	456	452	449	459	464	486	04 50	576	16 58	436	140	14
498	485	494	504	502	502	509	511	517	531	05 52	639	00 01	465	174	15
491	495	496	504	520	517	516	521	524	530	05 06	714	12 55	482	232	16
513	516	504	485	474	457	471	459	450	530	05 45	636	23 59	427	209	17††
459	462	464	462	461	458	458	461	463	468	06 20	528	03 02	340	188	18††
468	477	477	478	484	491	498	494	494	483	04 50	522	01 06	443	79	19
499	501	504	492	494	496	506	499	498	522	05 43	596	00 30	486	110	20
492	494	495	499	501	514	509	507	506	526	05 08	600	15 00	491	109	21
514	514	515	513	515	523	519	522	518	534	06 13	642	01 22	488	154	22
492	507	501	513	506	499	507	504	496	544	07 02	693	14 28	479	214	23
517	520	516	515	519	523	523	515	517	533	05 56	620	00 20	493	127	24
521	521	520	521	521	521	529	532	534	557	06 54	662	00 01	514	148	25†
506	506	498	500	506	510	511	518	512	546	07 08	658	17 35	489	169	26
500	502	502	502	506	507	509	509	507	527	07 56	605	11 46	488	117	27
504	497	509	509	517	518	512	513	507	542	06 12	637	17 14	495	142	28
517	512	509	510	517	508	505	514	508	537	07 41	629	01 10	491	138	29
527	522	520	517	511	517	521	513	507	550	06 15	700	01 40	502	198	30
532	532	531	530	527	532	532	530	532	545	06 18	635	00 18	505	130	31
489	488	488	487	491	490	491	494	495	521				156		Mean
519	518	517	517	516	517	516	516	515							Mean†
429	424	420	409	424	411	415	422	428							Mean††

†Five international quiet days

††Five international disturbed days.

△Loss of record, day omitted for means

TABLE 13

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

July

2,000 plus tabular quantities

Date	Hours G M T															
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	
	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	
1	349	349	348	338	322	316	299	299	298	291	299	310	329	338	334	
2†	347	345	340	339	331	321	320	321	328	334	334	330	326	331	333	
3	345	354	355	351	341	333	328	321	322	329	334	330	330	330	331	
4	347	351	346	345	339	331	314	297	286	293	300	306	323	334	330	
5	345	346	344	350	343	339	343	339	329	321	322	327	328	329	330	
6†	345	346	342	342	331	320	315	310	317	321	323	332	330	329	328	
7	342	345	344	338	328	319	308	301	305	302	306	315	330	332	332	
8††	343	346	342	335	329	319	309	304	314	320	330	294	290	314	324	
9††	352	355	339	321	308	307	309	324	327	340	343	340	338	342	336	
10	358	351	346	345	336	329	317	308	308	315	319	322	327	328	331	
11	345	350	346	343	331	317	307	305	310	308	313	315	321	328	331	
12	351	356	351	345	335	329	322	322	308	309	320	319	323	328	329	
13	344	348	346	344	337	319	302	313	327	336	333	327	327	327	328	
14	345	350	345	336	329	331	322	309	296	293	308	320	327	325	324	
15†	344	345	359	363	363	353	338	317	309	306	307	316	322	330	331	
16†	342	347	345	343	339	329	312	301	294	304	306	317	325	329	329	
17	343	347	348	347	333	320	319	319	316	314	307	319	324	330	330	
18††	342	345	342	344	344	351	340	324	319	329	325	328	325	328	329	
19	345	350	350	346	340	332	318	306	303	314	325	333	332	332	330	
20	340	346	340	336	330	313	293	295	277	265	300	309	318	325	329	
21††	344	347	353	352	351	344	334	323	326	331	331	326	329	329	330	
22	341	346	349	351	344	346	346	339	333	330	333	323	330	341	332	
23†	341	345	348	349	340	330	330	329	322	312	312	321	324	332	330	
24	341	344	342	334	319	308	303	311	323	323	312	315	322	324	331	
25	344	347	346	339	337	331	309	289	307	319	317	321	331	335	332	
26	346	353	361	355	332	329	314	306	314	317	316	318	322	326	329	
27††	345	349	348	336	331	322	302	296	295	304	323	325	324	322	325	
28	351	355	353	350	349	343	333	328	313	310	307	309	309	328	328	
29	340	347	340	338	327	319	308	303	297	293	301	318	327	330	328	
30	343	347	343	339	336	332	323	316	312	312	312	315	317	326	328	
31	340	345	345	342	336	326	309	307	305	304	309	318	322	327	328	
Mean	345	348	347	343	335	328	318	312	311	314	317	320	324	329	330	
Mean†	344	346	347	347	341	331	323	316	314	315	316	323	325	330	330	
Mean††	345	348	345	338	333	329	319	314	316	325	330	323	321	327	329	

†Five international quiet days

††Five international disturbed days

△Loss of record, day omitted for means

TABLE 13

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

July

2,000γ plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
334	335	340	341	344	344	345	345	345	329	00 50	353	09 00	291	62	1
333	334	339	343	341	341	341	343	344	335	00 02	348	06 32	315	33	2†
331	332	333	334	339	343	343	343	345	337	02 30	356	07 00	321	35	3
329	332	333	333	337	341	339	343	346	328	00 38	352	07 58	284	68	4
330	336	337	338	342	342	343	340	352	337	22 40	353	09 08	320	33	5
330	332	335	335	339	339	342	342	342	332	00 32	350	06 50	308	42	6†
329	333	342	342	338	340	342	342	339	329	00 42	347	07 44	300	47	7
317	279	305	315	306	324	346	348	351	321	21 20	384	16 29	253	131	8††
345	352	361	351	350	350	351	352	352	339	16 45	364	05 00	307	57	9††
333	338	339	340	342	342	340	343	350	334	00 01	362	07 30	307	55	10
331	338	338	342	343	345	342	345	343	331	00 50	351	06 45	301	50	11
332	335	337	332	339	343	338	342	342	333	01 00	360	08 15	304	56	12
330	333	340	337	339	340	340	344	345	334	00 45	350	05 50	301	49	13
328	333	331	337	338	337	338	339	343	329	01 05	352	08 42	290	62	14
330	332	333	336	340	338	340	343	340	335	03 25	367	08 52	305	62	15†
330	332	333	333	336	338	338	339	342	328	01 15	350	08 06	293	57	16†
332	335	335	335	336	336	338	338	339	331	02 34	351	09 41	301	50	17
330	337	338	340	340	336	345	344	345	336	04 55	353	07 54	312	41	18††
332	334	336	339	339	341	343	334	340	333	01 17	351	07 42	288	63	19
332	338	336	338	340	341	341	341	344	324	01 00	347	08 10	271	76	20
332	333	352	339	332	343	338	339	344	338	16 43	365	07 10	322	43	21††
331	337	338	338	339	339	341	339	340	339	02 25	359	11 00	323	36	22
331	333	334	337	338	340	339	339	340	333	02 39	352	09 11	311	41	23†
332	333	334	333	334	335	342	345	341	328	00 48	347	06 05	302	45	24
332	335	341	341	339	339	340	348	332	01 10	349	07 22	286	63	25	
330	333	335	338	339	339	340	339	341	332	02 30	364	06 58	301	63	26
331	333	333	332	334	336	339	342	350	328	03 38	354	07 34	287	67	27††
331	333	334	338	340	342	342	341	340	334	00 41	363	11 38	304	59	28
328	332	331	335	339	339	339	339	339	322	01 08	354	09 30	290	64	29
330	330	330	330	335	336	339	339	339	330	01 10	350	08 00	308	42	30
350	335	330	339	339	339	338	329	341	329	00 38	347	09 01	301	46	31
331	333	336	337	338	340	341	342	344	332					55	Mean
331	333	333	337	339	339	340	341	342							Mean†
331	327	338	335	332	338	344	345	348							Mean††

†Five international quiet days

††Five international disturbed days

ΔLoss of record, day omitted for means

TABLE 14

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

August

2,000γ plus tabular quantities

Date	Hours GMT														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	345	346	342	336	326	321	312	314	323	314	311	302	306	329	332
2	346	352	350	341	324	309	300	302	303	314	326	332	329	325	328
3	347	349	349	349	335	324	314	303	300	305	323	333	336	335	331
4†	343	348	344	333	323	309	309	317	323	325	328	325	323	329	342
5†	344	347	344	337	332	326	323	310	300	294	302	314	317	325	326
6†	344	351	355	352	344	324	309	310	298	290	295	306	316	324	329
7	341	346	348	347	336	333	320	319	302	303	315	326	327	329	334
8†	345	350	348	338	332	322	327	324	326	330	329	336	337	337	335
9	347	353	350	338	317	301	301	295	302	313	313	325	330	328	330
10	345	347	341	334	325	322	318	321	347	355	345	334	334	333	327
11	351	352	344	329	326	307	302	305	301	314	316	322	328	331	335
12	348	346	335	325	316	303	305	318	333	335	334	330	327	334	336
13	345	350	342	326	309	283	266	258	273	282	290	312	326	333	335
14	344	349	342	338	327	312	290	279	278	281	291	305	320	327	328
15	345	346	340	331	308	294	291	285	289	292	308	319	329	329	329
16	343	349	340	329	314	291	268	269	274	279	290	303	316	326	327
17††	340	350	337	319	306	296	284	290	260	257	279	305	327	336	327
18††	346	357	342	327	305	290	291	302	304	306	311	319	326	326	327
19	342	350	350	340	332	322	305	302	303	306	313	322	327	327	328
20†	339	346	343	334	315	299	290	283	282	290	300	310	320	326	327
21	337	344	343	328	326	326	323	322	323	321	319	317	326	327	330
22††	338	343	339	352	329	303	290	307	316	307	313	315	321	326	327
23	344	347	339	330	317	303	300	306	313	314	317	324	326	328	329
24††	338	346	352	310	321	315	329	304	299	291	292	303	312	322	335
25	344	347	347	336	327	310	305	302	304	310	310	317	323	328	327
26	339	350	346	334	326	305	292	291	300	306	307	315	319	326	329
27††	343	346	334	323	304	266	260	265	258	281	300	322	329	334	329
28	344	346	329	311	299	282	267	266	271	282	294	304	317	326	326
29	343	349	344	321	293	278	268	265	270	275	291	315	329	335	328
30	343	351	336	317	292	284	277	276	277	283	300	306	322	328	327
31	340	347	340	330	314	290	271	266	271	288	304	310	317	324	323
Mean .	343	348	343	332	319	305	297	296	298	301	309	317	324	329	330
Mean†	343	348	347	339	329	316	312	305	301	306	311	318	323	328	332
Mean††	341	348	341	326	313	294	291	294	287	288	299	313	323	329	329

†Five international quiet days

††Five international disturbed days.

△Loss of record, day omitted for means.

TABLE 14

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

August

2,000γ plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
333	333	336	341	342	340	340	342	342	330	00 44	347	11 23	298	49	1
331	334	336	340	340	339	339	339	342	330	01 00	354	05 50	299	61	2
331	334	335	337	339	341	341	339	341	332	02 30	351	08 24	298	53	3
331	334	336	336	337	342	340	341	345	332	00 50	349	05 40	304	45	4†
329	332	335	341	342	342	342	342	342	329	01 00	349	09 20	291	58	5†
331	334	337	339	341	341	341	341	340	329	01 48	356	09 15	288	68	6†
337	338	338	342	340	340	343	343	343	333	01 34	350	08 15	294	56	7
333	336	340	341	342	343	343	345	345	337	01 09	353	04 58	321	32	8†
333	335	335	338	341	342	338	340	340	329	00 50	356	06 45	294	62	9
330	334	337	338	342	341	344	338	345	336	09 05	357	05 12	314	43	10
335	337	339	339	346	345	344	346	346	331	00 50	355	08 00	301	54	11
336	337	339	342	345	345	344	343	341	332	00 42	351	05 12	302	49	12
336	337	338	339	339	339	339	339	339	320	00 48	351	07 43	253	98	13
330	337	337	336	338	338	337	340	343	323	00 46	350	08 00	278	72	14
330	332	336	338	339	339	339	338	339	324	00 55	347	06 35	283	64	15
327	328	329	336	339	339	339	338	338	318	02 00	351	05 35	267	84	16
332	337	330	328	323	331	327	339	335	316	00 43	352	08 46	252	100	17††
329	335	337	337	338	339	339	339	340	326	00 50	361	05 24	275	86	18††
331	334	337	336	338	338	337	337	337	328	00 58	352	07 00	300	52	19
328	331	335	334	336	336	337	337	337	321	00 48	347	08 00	279	68	20†
331	335	336	338	338	338	337	336	339	331	01 24	345	10 18	314	31	21
334	334	334	338	339	343	343	343	342	328	02 36	358	06 17	278	80	22††
330	334	336	336	337	339	339	338	339	328	01 00	347	06 02	293	54	23
338	334	339	341	340	340	340	340	340	326	01 51	359	09 28	288	71	24††
329	334	335	336	338	337	338	339	340	328	00 30	351	07 54	294	57	25
331	334	335	337	339	337	337	339	339	326	00 50	351	07 00	291	60	26
334	337	334	338	340	347	339	339	334	319	00 41	349	05 47	238	111	27††
326	327	331	330	338	334	335	339	339	315	00 48	349	06 17	262	87	28
329	331	334	335	337	335	337	337	338	317	00 42	350	07 00	265	85	29
329	331	336	337	338	338	342	340	340	319	00 48	353	07 30	274	79	30
324	327	328	334	335	336	336	337	337	317	00 45	349	06 58	265	84	31
331	334	335	337	339	339	339	340	341	326					66	Mean
330	333	337	338	340	341	341	341	342							Mean†
333	335	335	337	336	340	338	340	340							Mean††

†Five international quiet days
 ††Five international disturbed days
 ΔLoss of record, day omitted for means.

TABLE 15

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

September

2,000 plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	339	351	353	343	328	314	300	298	296	301	315	322	322	323	324
2	345	350	340	331	324	315	304	308	317	324	324	322	322	324	327
3††	338	347	345	337	326	307	291	293	301	309	293	322	324	314	298
4††	335	336	335	344	340	346	334	327	324	321	319	317	317	326	326
5††	347	329	328	317	315	332	336	337	339	334	328	327	336	336	331
6	344	351	354	349	341	328	313	305	302	305	313	316	323	330	333
7	345	353	349	335	321	302	290	292	299	306	306	315	323	330	329
8	344	342	330	316	293	287	284	287	298	300	304	312	322	326	327
9	338	344	336	323	316	314	298	300	314	322	327	326	328	326	321
10	339	344	334	321	311	300	291	292	300	314	323	325	316	309	323
11	343	344	339	328	314	313	323	326	335	333	333	335	330	327	327
12	337	344	339	337	327	323	302	295	298	312	325	325	325	326	326
13†	339	349	333	312	299	291	280	275	273	282	296	311	325	327	326
14†	338	349	349	342	326	298	267	256	269	284	297	306	312	321	323
15	337	348	345	327	307	288	271	263	273	292	304	315	322	327	327
16††	338	346	345	329	301	269	276	281	288	288	304	307	312	321	313
17	330	343	336	322	311	302	300	308	312	325	334	333	322	322	327
18†	336	345	341	333	325	312	301	298	305	313	321	322	324	325	326
19	338	347	348	342	325	306	291	290	297	299	302	310	319	322	326
20	338	345	341	329	312	297	281	279	287	299	308	313	315	324	325
21†	335	345	344	332	315	302	290	289	302	314	324	324	318	322	322
22†	335	344	341	323	304	299	294	291	299	311	314	315	314	316	323
23	334	337	327	318	300	284	275	281	290	297	300	305	310	322	323
24	336	348	336	318	305	298	290	283	282	292	302	313	315	319	321
25††	336	344	335	326	307	286	293	296	302	300	306	308	296	310	313
26	344	336	325	315	315	315	315	311	311	319	319	318	318	319	323
27	335	338	329	330	318	307	314	311	325	325	321	319	321	326	325
28	335	339	325	309	△	△	△	△	△	△	△	314	316	326	326
29	337	343	343	338	327	303	278	277	283	297	303	308	312	324	326
30	336	338	340	337	317	303	289	290	297	300	305	308	308	312	316
Mean	338	344	339	329	316	305	296	294	301	308	313	317	319	323	323
Mean†	337	346	342	328	314	300	286	282	290	301	310	316	319	322	324
Mean††	339	340	338	331	318	308	306	307	311	330	310	318	317	321	316

†Five international quiet days

††Five international disturbed days

△Loss of record, day omitted for means.

TABLE 15

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

September

2,000γ plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M	γ	H. M	γ	γ		
326	327	332	337	337	337	338	338	339	327	01 40	355	06 30	294	61	1
329	329	332	335	335	336	336	338	339	329	00 50	351	06 04	303	48	2
313	337	334	334	338	339	335	323	338	322	01 10	348	09 56	288	60	3††
292	278	312	288	306	300	339	324	364	323	23 05	370	15 50	276	94	4††
335	339	345	345	347	350	340	344	340	336	19 22	353	03 27	305	48	5††
334	335	337	339	339	339	337	339	342	331	02 15	357	08 00	302	55	6
325	322	328	334	337	348	339	337	338	325	01 00	354	06 04	289	65	7
330	331	334	335	336	337	337	337	348	321	22 50	349	05 15	281	68	8
322	329	336	335	337	338	339	338	346	327	22 45	348	06 20	293	55	9
328	333	335	336	337	337	337	336	338	323	00 45	345	06 35	290	55	10
328	329	333	335	337	336	337	337	338	332	01 10	345	04 45	311	34	11
328	333	334	335	336	336	336	337	338	327	01 05	345	06 38	293	52	12
327	329	333	334	334	335	335	336	336	317	00 45	350	07 35	272	78	13†
327	327	329	331	333	334	335	335	336	318	01 15	350	07 10	254	96	14†
328	330	332	332	333	334	334	335	334	318	01 10	352	07 14	263	89	15
322	332	324	324	321	332	337	340	336	316	01 05	347	05 10	266	81	16††
327	330	333	335	336	335	335	336	335	326	01 12	347	05 44	295	52	17
327	329	332	333	337	335	334	336	336	326	01 00	345	06 52	295	50	18†
327	328	332	333	334	334	334	335	336	323	02 00	348	07 00	289	59	19
327	329	332	333	335	334	334	334	335	320	00 50	347	07 00	279	68	20
326	327	332	332	334	334	335	334	334	324	01 00	347	06 40	287	60	21†
325	327	326	328	327	328	328	329	330	320	00 55	345	06 39	290	55	22†
325	325	325	328	330	333	330	331	333	315	01 50	338	05 45	273	65	23
323	325	325	328	334	335	335	334	334	318	00 40	349	07 22	281	68	24
312	330	334	338	338	338	348	339	342	320	00 45	346	04 58	271	75	25††
325	325	334	334	336	336	336	335	335	325	00 01	342	06 45	307	35	26
326	328	330	331	334	331	335	337	334	326	00 41	339	05 12	305	34	27
326	329	334	337	336	336	335	334	335	Δ	Δ	Δ	Δ	Δ	Δ	28
326	327	331	331	334	334	332	334	334	320	01 00	343	06 02	271	72	29
324	324	324	327	334	334	332	342	337	320	21 56	344	06 00	285	59	30
325	327	331	332	334	335	336	336	338	323					62	Mean
326	328	330	332	333	333	333	334	334							Mean†
315	323	330	326	330	332	340	334	344							Mean†

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 16

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

October

2,000γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	336	339	335	326	314	298	284	284	300	303	307	315	322	322	324
2	335	334	327	324	314	306	297	294	293	293	297	305	315	323	326
3	332	336	343	343	331	314	299	289	294	304	306	313	310	323	321
4†	338	343	337	334	324	313	304	294	301	306	308	309	314	324	324
5	334	346	338	331	315	302	294	290	287	293	304	314	315	325	327
6	332	337	337	333	324	309	299	293	295	305	311	318	321	323	321
7	331	332	325	321	309	297	280	280	293	298	302	308	313	321	325
8	332	332	325	318	314	309	307	300	300	305	313	314	317	324	327
9†	332	337	332	327	325	325	316	318	325	324	316	311	317	325	327
10†	333	338	336	335	329	316	301	301	298	300	305	308	315	320	324
11†	336	344	337	324	308	298	300	295	298	306	316	316	317	325	327
12†	335	340	339	329	314	297	283	279	280	285	294	304	313	324	325
13	335	339	338	330	315	294	278	281	299	303	307	318	318	318	322
14	330	338	328	317	301	269	259	259	271	291	306	318	319	321	325
15	331	332	332	326	309	291	293	298	299	307	317	318	319	326	326
16	334	339	340	338	315	292	280	283	292	295	303	307	315	317	322
17	332	338	337	331	318	298	302	303	303	301	300	306	311	319	323
18	332	338	339	339	329	312	295	285	279	281	284	293	307	318	321
19	331	339	334	329	319	308	296	294	294	295	298	296	305	318	324
20	337	332	328	326	318	314	306	301	301	295	296	303	314	323	324
21	331	330	325	322	328	319	310	311	307	307	309	314	311	318	324
22††	336	336	336	345	345	325	295	296	283	294	325	326	325	317	323
23††	338	336	336	331	328	325	332	338	332	326	317	315	315	319	322
24††	336	339	338	339	339	333	337	332	316	295	292	298	310	301	311
25	332	330	330	333	337	334	333	337	336	329	328	325	317	325	326
26	337	341	336	329	318	305	290	279	272	280	293	307	311	319	326
27††	332	333	330	336	337	329	316	307	306	310	315	311	315	322	322
28††	333	333	331	329	322	315	309	317	313	295	295	306	310	315	318
29	332	329	330	331	329	318	323	318	311	308	307	310	316	326	327
30	329	332	334	337	327	318	309	303	289	296	300	305	310	316	326
31	331	329	329	332	333	317	309	306	305	305	307	308	318	327	320
Mean . . .	333	336	334	330	322	310	301	299	299	301	306	310	315	321	324
Mean† . . .	335	340	336	330	320	310	301	297	300	304	308	310	315	324	325
Mean†† . . .	335	335	334	336	334	325	318	318	310	304	309	314	315	315	319

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record , day omitted for means

TABLE 16

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

October

2,000γ plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
324	326	328	329	332	330	331	330	335	320	00 40	342	05 15	279	63	1
327	327	329	331	331	331	330	331	336	319	00 36	337	08 52	291	46	2
324	319	316	335	329	335	337	337	337	322	02 09	346	07 07	286	60	3
326	328	329	331	331	331	332	336	336	323	00 45	345	06 40	293	52	4†
327	327	328	328	328	333	331	331	335	320	01 00	347	07 11	284	63	5
327	330	329	330	332	332	332	330	331	322	00 48	338	07 10	292	46	6
327	328	324	330	335	333	336	336	337	318	22 25	340	06 25	275	65	7
328	328	328	331	332	332	332	332	332	321	00 01	332	06 52	299	33	8
327	328	329	331	330	329	330	330	330	326	00 45	338	11 00	311	27	9†
325	327	327	329	330	329	328	329	331	321	00 50	340	07 58	297	43	10†
328	329	332	335	332	330	336	338	336	327	00 46	345	07 32	294	51	11†
327	328	331	333	336	331	333	337	336	316	01 05	341	06 00	279	62	12†
328	329	328	329	333	333	332	331	330	319	00 45	340	01 15	275	65	13
325	328	329	330	331	330	330	330	330	313	00 40	339	06 25	253	86	14
326	326	328	333	333	331	333	337	333	321	21 38	339	05 15	285	54	15
326	326	328	329	331	331	329	331	332	318	02 20	341	06 30	276	65	16
324	324	326	328	329	330	328	328	329	320	00 45	339	04 40	295	44	17
324	321	326	329	329	328	328	329	330	316	02 18	341	08 08	273	68	18
322	325	319	324	329	330	329	330	329	317	00 38	341	06 26	298	48	19
325	325	326	329	329	329	328	329	331	320	00 12	341	09 00	295	46	20
324	324	328	328	328	331	329	333	332	322	00 32	337	08 15	305	32	21
328	319	326	321	321	338	331	326	329	323	03 21	364	08 10	281	83	22††
321	321	326	326	331	340	337	342	337	329	19 30	348	11 04	309	39	23††
329	330	341	339	347	346	328	334	339	327	19 20	354	13 39	286	68	24††
328	330	332	334	333	333	332	333	334	331	03 30	339	12 10	316	23	25
325	319	326	329	331	336	333	330	330	317	00 45	342	07 47	271	71	26
324	326	317	317	295	308	333	330	326	321	21 05	344	19 00	294	50	27††
319	317	328	317	329	330	332	333	332	320	17 35	345	09 35	290	55	28††
327	330	327	332	332	331	337	327	327	324	20 30	340	10 00	307	33	29
318	323	331	327	329	333	330	340	335	321	22 12	343	08 06	285	58	30
327	327	327	329	329	327	330	330	331	322	03 41	339	07 36	300	39	31
325	326	327	329	330	331	332	332	333	321				53		Mean
327	326	330	332	332	330	332	334	334							Mean†
324	323	328	324	325	332	332	333	333							Mean††

†Five international quiet days

††Five international disturbed days.

△ Loss of record, day omitted for means.

TABLE 17

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

November

2,000 plus tabular quantities

Date	Hours G M T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	330	338	338	333	311	303	301	304	299	287	295	304	308	319	323
2††	327	331	339	341	331	318	314	308	307	297	296	307	311	316	308
3††	331	331	337	340	327	325	318	310	295	288	296	307	317	319	318
4	329	331	337	341	340	329	323	316	304	306	308	315	318	318	326
5†	330	332	331	333	331	329	322	316	307	304	306	309	317	325	326
6†	331	332	334	338	333	318	307	297	293	293	299	307	315	320	322
7†	330	330	330	334	331	328	319	313	309	309	308	308	315	318	319
8†	330	330	328	328	330	331	327	311	300	301	304	316	320	325	327
9	332	331	330	333	330	318	313	315	301	295	297	307	316	321	324
10†	330	331	331	334	332	331	331	331	325	311	295	295	317	328	324
11††	328	332	323	324	326	318	312	316	312	313	310	317	320	327	327
12	330	330	333	334	327	330	330	327	324	317	309	307	311	318	324
13	327	330	330	326	311	317	312	318	321	319	317	316	318	323	324
14	332	333	324	320	311	304	316	319	318	318	316	317	317	321	323
15	325	327	328	332	333	327	319	328	330	319	318	319	318	321	321
16	334	333	332	337	331	325	318	320	312	315	317	314	312	314	315
17	330	329	332	339	336	334	330	332	327	320	317	314	317	323	326
18	333	334	333	330	320	309	302	296	295	307	318	320	318	319	324
19	331	333	337	337	332	331	331	334	333	326	315	312	311	317	318
20	327	327	326	326	326	318	316	307	303	300	302	302	300	312	315
21	327	323	320	319	316	311	308	311	315	315	309	306	306	313	316
22†	326	328	328	332	332	337	349	349	332	317	309	305	303	314	318
23	325	325	322	324	324	323	316	309	305	302	304	295	299	305	309
24	325	325	325	330	334	337	339	325	308	302	294	295	303	307	318
25	322	328	328	329	334	337	339	333	329	317	303	294	307	316	314
26	328	326	326	328	322	327	325	324	318	310	304	300	305	314	315
27	324	325	325	328	331	337	337	327	324	315	305	307	315	325	327
28††	328	330	328	328	328	318	327	312	315	305	300	304	305	314	327
29	327	328	327	327	314	316	324	320	306	302	315	315	310	314	315
30†	328	329	329	328	327	316	313	308	312	308	313	306	309	318	314
Mean	329	330	330	331	327	323	321	318	313	308	307	308	312	318	320
Mean†	329	330	330	332	331	326	324	316	309	305	306	309	313	320	321
Mean††	329	331	332	333	329	322	320	315	311	303	299	306	314	321	321

†Five international quiet days

††Five international disturbed days

Δ Loss of record, day omitted for means

TABLE 17

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

November

2,000γ plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
327	324	326	325	327	327	330	330	329	318	01 00	338	09 15	287	51	.1
306	306	303	327	340	338	333	333	331	320	02 52	343	09 50	295	48	2††
324	327	327	329	333	332	331	334	331	322	03 20	342	09 00	291	51	3††
326	327	327	329	329	329	331	329	329	325	03 00	341	08 30	303	38	4
326	326	327	329	329	329	329	329	330	324	00 42	335	09 00	304	31	5†
322	323	324	327	327	327	327	327	330	320	03 05	339	08 30	292	47	6†
319	328	330	331	330	330	330	330	330	323	02 54	335	10 44	305	30	7
326	326	328	330	330	330	330	330	330	331	05 15	333	08 15	298	35	8†
324	326	328	330	328	330	330	330	330	322	03 15	334	09 00	294	40	9
324	325	321	318	325	332	331	327	328	324	02 52	338	11 03	290	48	10††
328	328	328	330	330	330	330	328	328	324	01 35	335	09 56	307	28	11††
326	326	328	328	330	331	330	327	327	325	19 24	336	10 18	305	31	12
325	326	327	330	328	328	330	330	330	323	23 58	331	04 25	300	31	13
324	327	327	328	328	330	328	328	327	322	00 44	336	05 00	303	33	14
326	328	330	331	331	331	331	332	332	327	03 34	334	10 00	317	17	15
317	323	326	329	329	327	329	330	330	324	02 30	343	08 07	309	34	16
327	326	329	331	330	331	332	330	331	328	03 15	341	11 00	314	27	17
325	325	329	329	327	329	329	331	330	321	00 36	337	07 52	293	44	18
318	317	320	326	326	327	327	327	326	326	03 35	338	12 00	311	27	19
317	317	319	324	324	323	322	323	323	317	00 35	329	08 35	297	32	20
317	318	324	328	328	326	323	322	322	318	18 00	328	10 45	305	23	21
319	321	323	325	326	325	326	326	325	325	06 18	352	11 30	302	50	22|
318	318	318	323	325	325	323	323	324	316	00 35	328	11 00	295	33	23
322	325	326	326	325	324	326	325	324	320	05 42	340	10 25	293	47	24
306	309	311	318	308	316	318	323	326	319	05 30	340	10 45	293	47	25
316	317	317	323	330	328	327	321	324	320	18 58	331	11 00	300	31	26
325	324	328	337	331	329	327	327	327	325	17 37	338	10 15	304	34	27
328	325	325	327	325	325	325	325	328	321	01 15	333	10 15	294	39	28††
315	324	328	330	330	328	328	328	328	321	18 18	342	09 00	300	32	29
325	327	327	327	327	328	327	327	328	321	00 48	331	11 00	306	25	30†
322	323	324	327	328	328	328	328	328	322					36	Mean
324	325	326	328	328	328	328	328	329							Mean†
322	322	321	326	331	331	330	329	329							Mean††

| Five international quiet days.

† Five international disturbed days

Δ Loss of record, day omitted for means.

TABLE 18

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

December

2,000y plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1†	328	329	328	322	313	304	306	305	304	304	305	304	306	313	315
2	328	329	328	335	337	328	321	324	315	318	315	294	290	294	301
3	328	328	328	335	316	308	305	308	312	316	312	305	307	315	318
4††	327	340	340	338	330	324	315	327	314	301	293	292	289	297	300
5††	307	324	316	326	326	326	336	338	338	338	336	329	313	313	313
6	327	326	326	335	330	323	326	327	324	313	299	298	304	309	312
7†	326	326	325	326	320	317	313	306	299	301	299	301	309	315	320
8	326	326	326	326	317	313	303	300	291	290	288	290	300	312	311
9	317	317	316	320	315	303	301	290	283	300	304	307	307	316	323
10†	320	317	314	316	314	306	305	297	292	291	291	300	301	316	323
11	325	327	318	314	312	310	305	302	295	292	292	299	312	315	315
12†	320	318	313	316	324	318	313	305	301	299	295	301	305	314	316
13††	321	330	326	337	335	317	310	308	306	302	295	304	307	294	283
14	324	317	325	330	330	323	318	325	327	327	327	319	317	315	307
15	323	326	326	330	332	328	304	293	285	288	303	309	309	317	318
16	330	335	331	318	305	299	283	283	296	302	318	321	307	303	318
17††	328	331	329	322	307	303	295	298	298	299	298	306	309	315	320
18††	311	322	321	338	333	331	331	321	322	323	324	322	321	327	323
19	329	327	334	339	333	323	321	322	321	315	301	312	313	323	327
20	327	331	334	334	324	321	313	305	299	298	300	300	309	317	317
21	325	325	325	331	329	324	325	325	322	315	315	314	313	321	322
22	324	331	337	337	324	319	303	300	301	304	309	311	315	324	324
23	324	326	330	332	325	315	307	288	278	281	291	302	311	319	313
24	325	331	326	323	315	312	303	296	289	289	292	302	305	315	323
25†	328	327	325	332	332	324	320	310	301	297	295	298	305	315	318
26	336	333	332	334	326	326	316	303	302	299	304	312	313	314	317
27	326	325	328	333	328	317	314	307	297	293	295	301	307	321	328
28	336	337	335	334	320	308	305	305	302	297	306	312	317	320	320
29	327	329	330	330	322	309	316	316	316	309	318	320	321	323	324
30	329	330	331	329	318	306	284	282	291	303	316	318	316	318	322
31	329	331	331	328	319	306	296	293	304	308	310	316	319	320	325
Mean	325	327	327	329	323	316	310	307	304	304	305	307	309	315	317
Mean†	324	323	321	322	321	314	311	305	299	298	297	301	305	315	318
Mean††	319	329	326	332	326	320	317	318	316	318	309	311	308	309	308

†Five international quiet days

††Five international disturbed days

△Loss of record, days omitted for means

TABLE 18

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

December

2,000γ plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M.	γ	γ	
318	324	325	327	327	327	327	327	327	317	00 50	331	07 35	302	29	1†
307	325	329	327	328	331	328	347	333	321	21 53	353	12 10	286	67	-2
321	324	323	323	323	323	323	325	327	319	02 37	336	11 04	302	34	3
299	292	297	302	330	312	306	312	325	312	18 42	348	10 09	284	64	4††
324	327	328	327	328	326	326	326	327	326	06 25	340	00 05	306	34	5††
313	315	322	326	326	326	324	323	327	320	02 45	337	10 20	293	44	6
323	323	323	324	324	324	324	324	324	317	02 00	327	08 00	297	30	7†
313	314	323	327	324	323	326	317	315	313	20 48	330	10 00	283	47	8
326	321	324	322	322	320	320	319	320	313	15 00	326	07 48	275	51	9
323	322	322	323	323	323	322	324	325	313	23 00	325	09 45	290	35	10†
316	316	316	318	321	320	317	317	327	313	22 30	330	09 08	290	40	11
316	316	318	319	317	321	318	317	318	313	00 55	328	10 00	295	33	12†
295	300	306	300	318	317	327	334	329	312	22 15	350	14 13	279	71	13††
317	312	316	319	323	318	318	324	325	321	04 05	329	13 20	300	29	14
317	315	320	328	326	323	326	327	328	317	04 18	334	08 00	283	51	15
317	319	320	328	329	326	326	327	327	315	01 00	340	06 25	281	59	16
320	321	319	311	311	309	318	310	311	312	01 10	332	06 10	294	38	17††
323	328	329	329	329	327	324	328	327	326	03 20	345	00 01	310	35	18††
322	329	324	324	329	330	331	327	327	324	02 45	342	09 45	298	44	19
323	323	325	321	323	324	328	324	324	318	02 22	338	08 45	296	42	20
320	322	323	325	325	332	325	325	324	323	19 45	333	09 25	312	21	21
324	324	325	325	325	329	324	327	324	321	02 20	338	06 30	299	39	22
316	316	323	330	325	324	326	324	323	315	02 30	333	08 36	276	57	23
325	325	325	326	328	328	328	326	330	316	01 00	333	08 18	287	46	24
324	324	326	327	327	327	329	328	329	320	03 02	334	10 35	294	40	25†
324	326	325	327	328	330	329	333	328	322	01 00	339	09 00	298	41	26
327	327	328	329	330	329	329	329	329	320	02 48	336	09 00	293	43	27
318	319	328	328	330	330	328	328	329	320	00 12	340	09 10	296	44	28
327	326	328	329	331	329	329	335	330	324	21 45	336	09 00	307	29	29
329	324	327	328	326	329	329	327	323	318	01 02	332	06 30	281	51	30
329	325	325	328	324	329	328	328	329	320	01 00	331	06 32	287	44	31
319	320	322	323	325	325	325	325	326	318					43	Mean
321	322	323	324	324	324	324	324	325							Mean†
308	314	315	314	323	318	320	322	322							Mean††

†Five international quiet days
 ††Five international disturbed days.
 ΔLoss of record; day omitted for means.

TABLE 19
PRINCIPAL MAGNETIC STORMS
July to December 1958

Observatory	Greenwich Date	Storm Time		Sudden commencements			C-figures Degree of Activity (iv)	Maximal Activity on K scale 0 to 9			Ranges			
		G M T of beginning	G M T of ending (i)	Type (ii)	Amplitude (iii)			Greenwich Day	Greenwich 3 hrs index	K index	D	H	Z	
					D	H								Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Astrophysical Observatory Kodakanal		h m	d h		'	γ	γ					'	γ	γ
	July 8	07 51	9 18	S C	4	176	58	s	8			17	710	131
	July 21	16 36	22 14	S C	1	66	29	m	21			8	132	40
	August 17	06 18	18 13	S C	2	90	31	ms	17			13	382	104
	August 22	02 29	22 20	S C	2	68	25	m	22			4	163	69
	August 24	01 38	25 15	S C	1	52	23	m s	24			8	348	75
	August 27	03 01	27 22	S C	1	46	12	m	27			8	187	115
	September 3	08 38	5 17	S C	2	61	24	s	4			11	532	92
	September 16	09 25	17 10	S C	2	80	27	m	16			8	237	52
	September 25	04 09	26 10	S C	2	76	25	ms	25			8	373	58
	October 22	03 14	24 01	S C	2	109	23	ms	22			8	328	81
	October 24	07 28	25 13	S C	2	113	21	ms	24			8	389	69
	October 28	06 49	29 08	S C	1	77	12	m	28			4	249	51
	November 28	01 08	29 12	S C	1	25	7	m	28			6	179	40
	December 4	00 35	5 18	S C	1	29	12	ms	4			8	348	69
December 13	00 07	14 23	S C	1	24	13	ms	13			5	290	58	
December 17	18 18	19 10	S C	1	40	16	m	18			4	187	40	

The following symbols and conventions have been used according to recognised practice

- (i) Approximate time of ending construed as the time of cessation of reasonable marked disturbance movements in the traces.
(ii) S.C.—Sudden commencement, ()=Gradual commencement
(iii) Signs of amplitudes of 'D' and 'Z' taken algebraically, (D—reckoned negative being westerly)
(Z—reckoned positive being vertically downwards)
(iv) Storm described by three degrees of activity (m)—for moderate (when range is less than 250γ)
(ms)—for moderately severe (when range is between 251γ to 400γ)
(s)—for severe (when range is above 400γ)

TABLE I

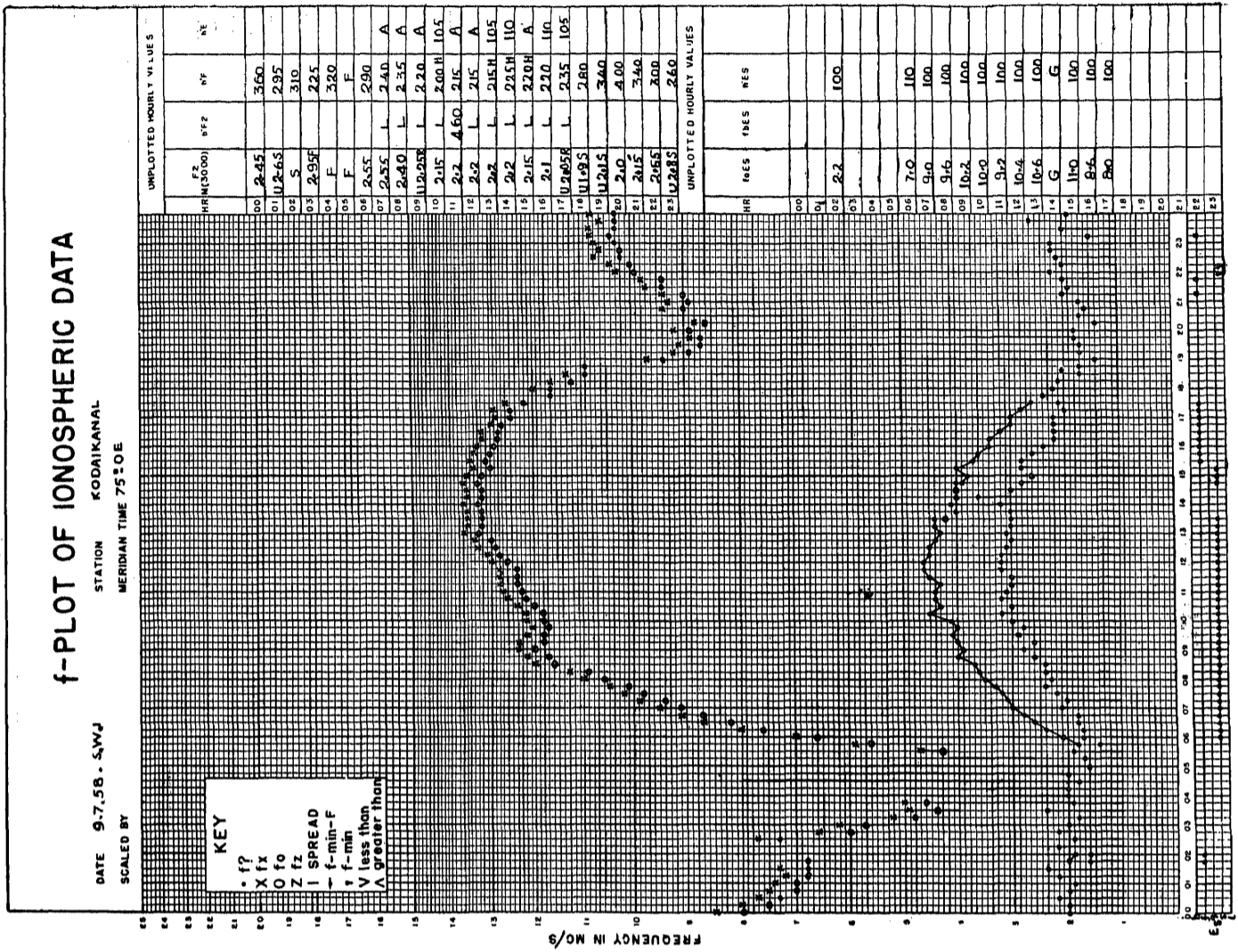
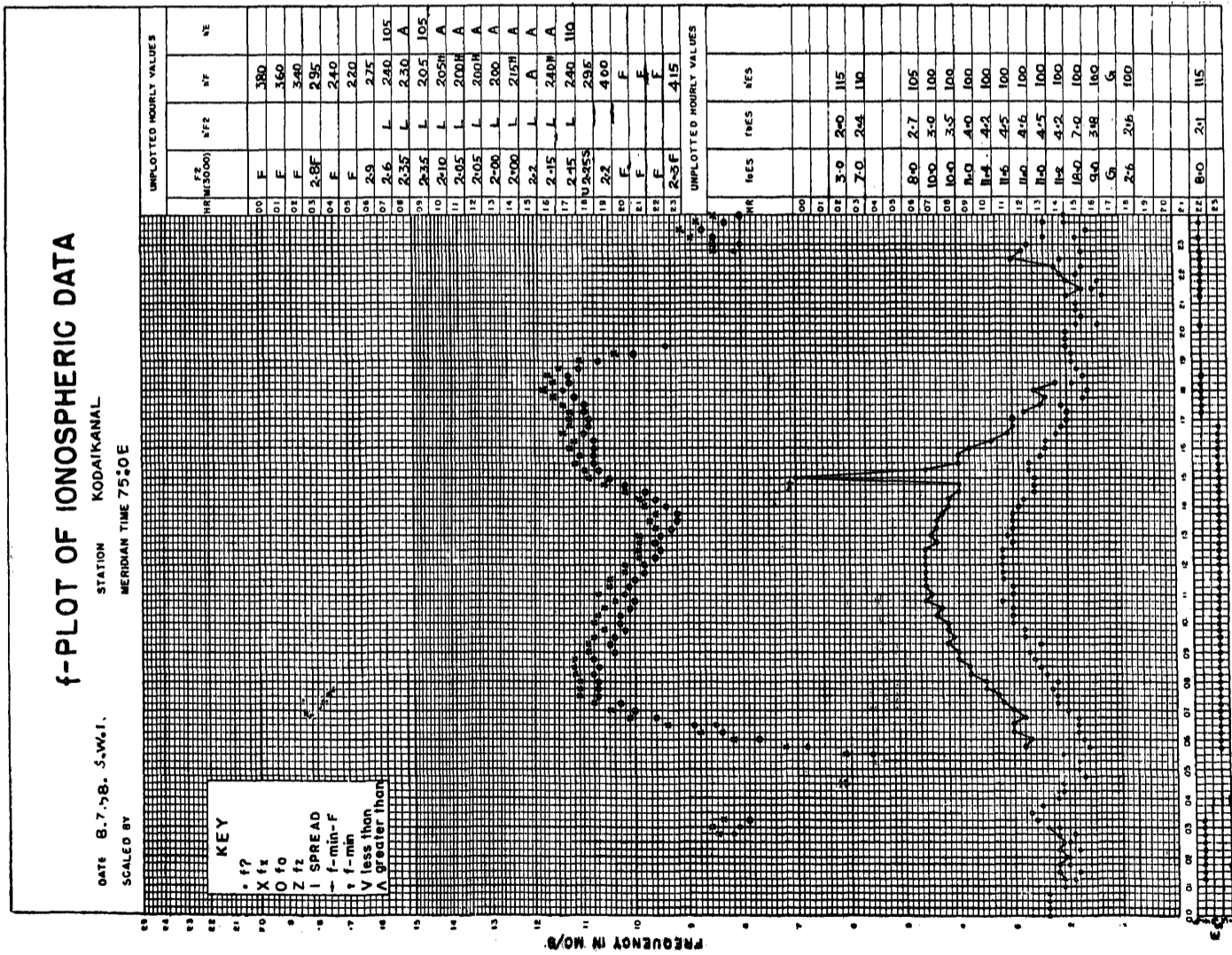
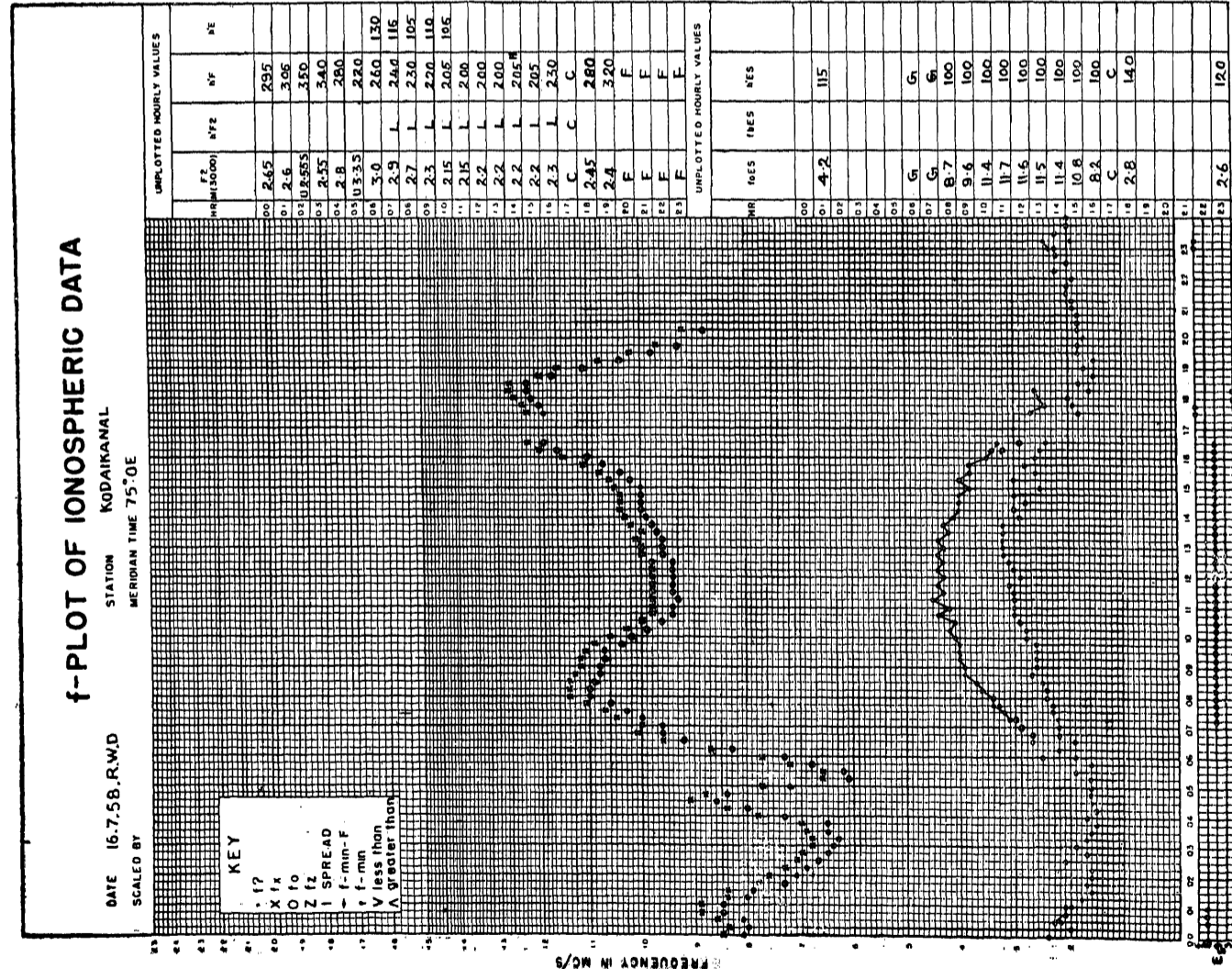
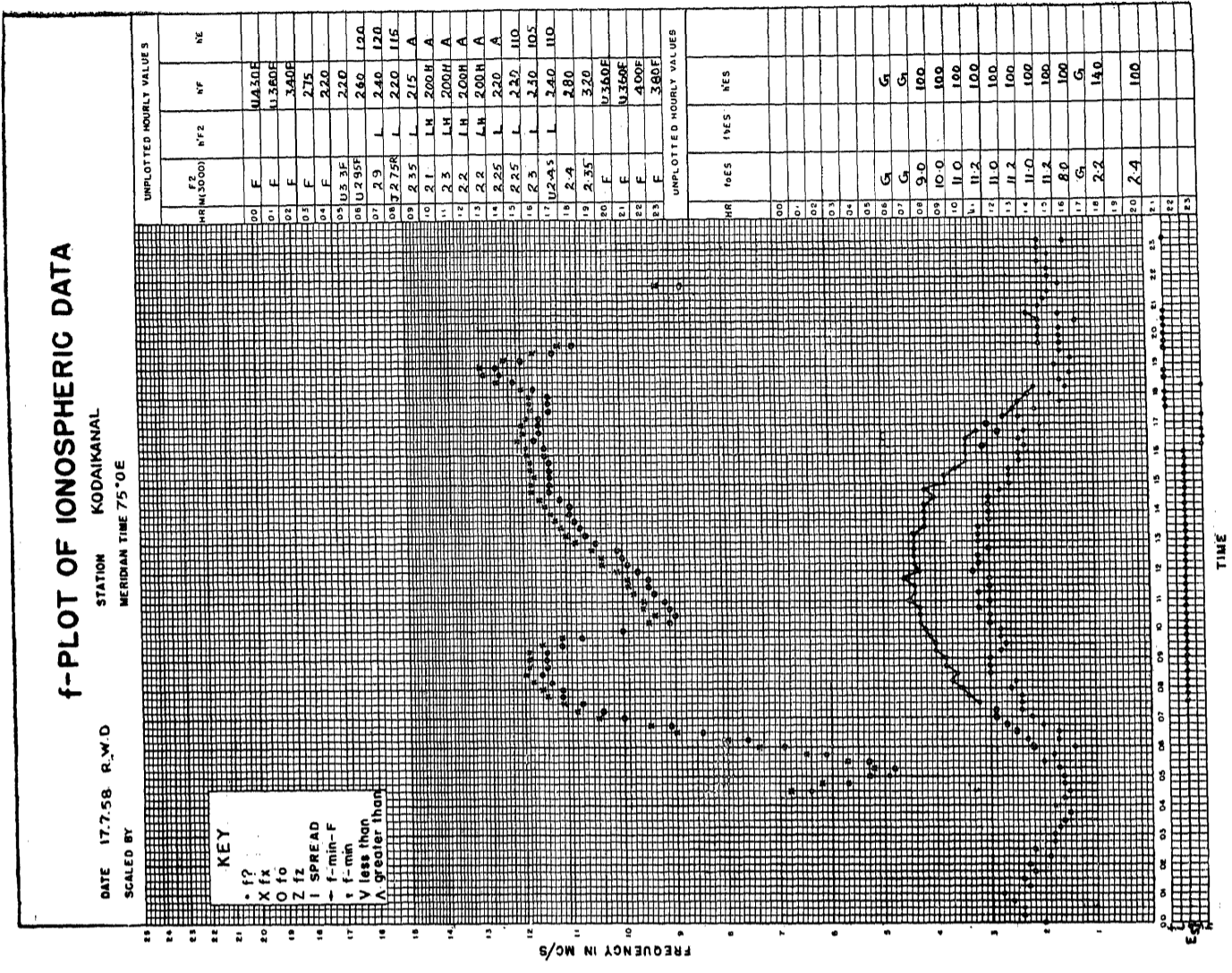


TABLE II



736



352

TABLE IV

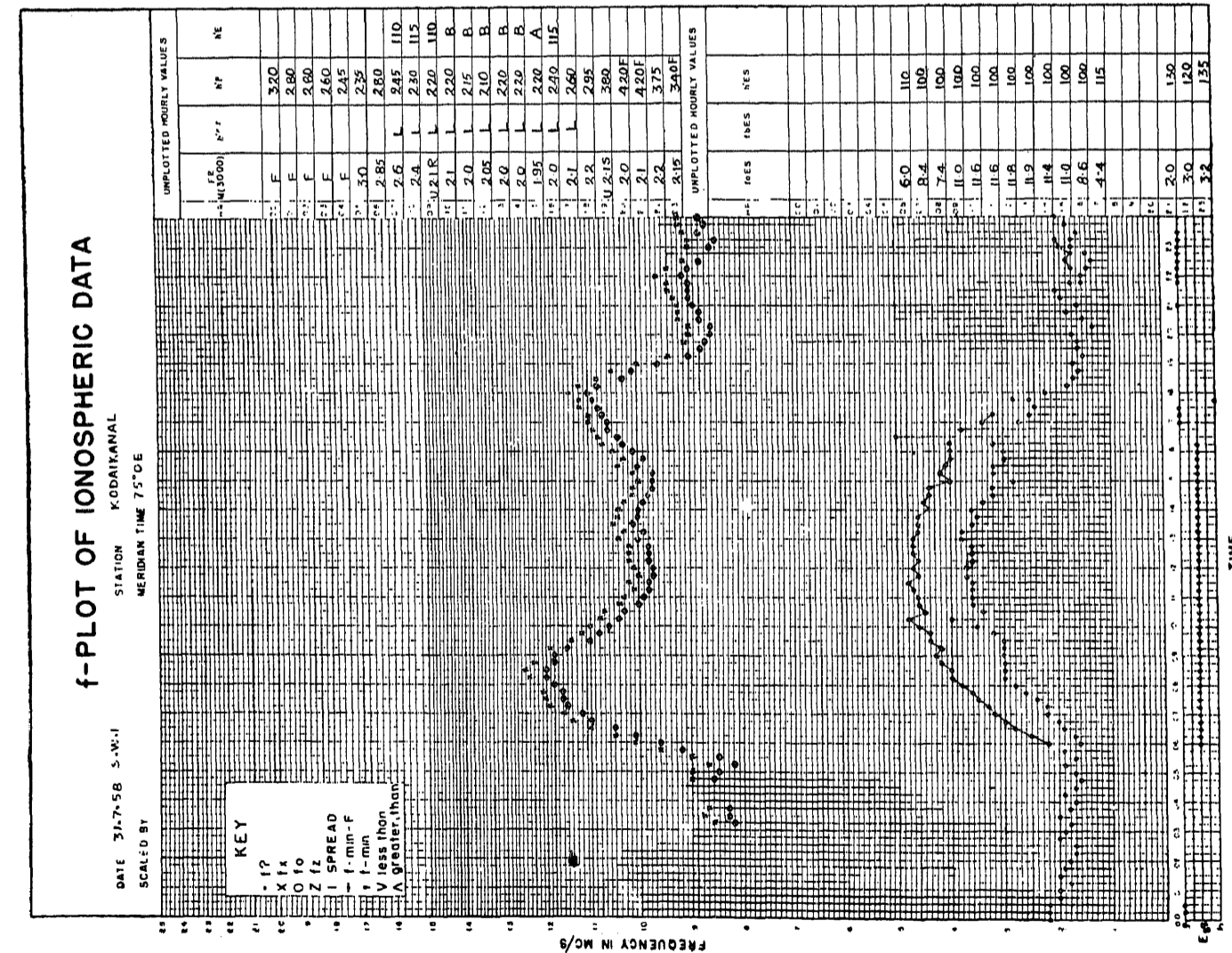
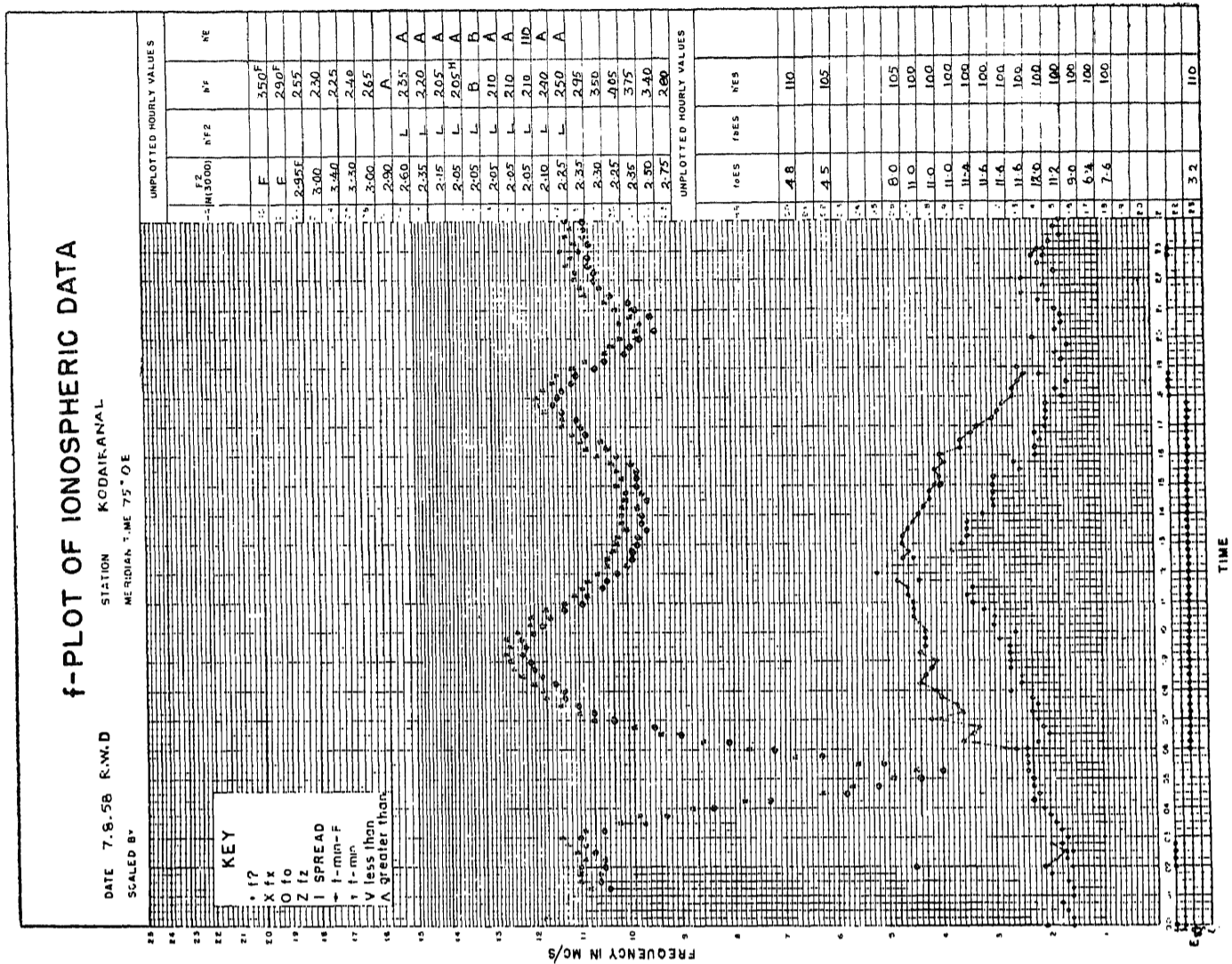
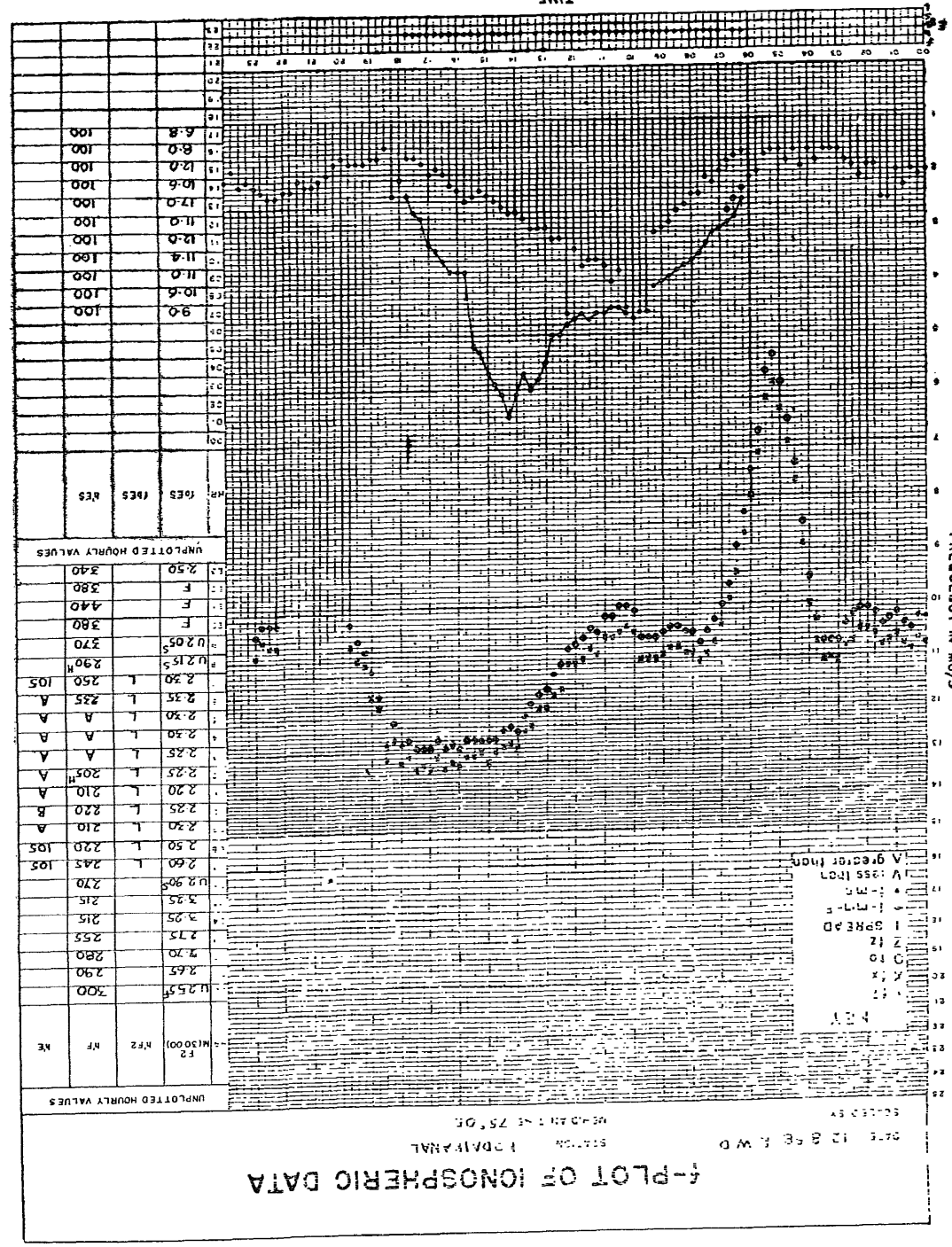
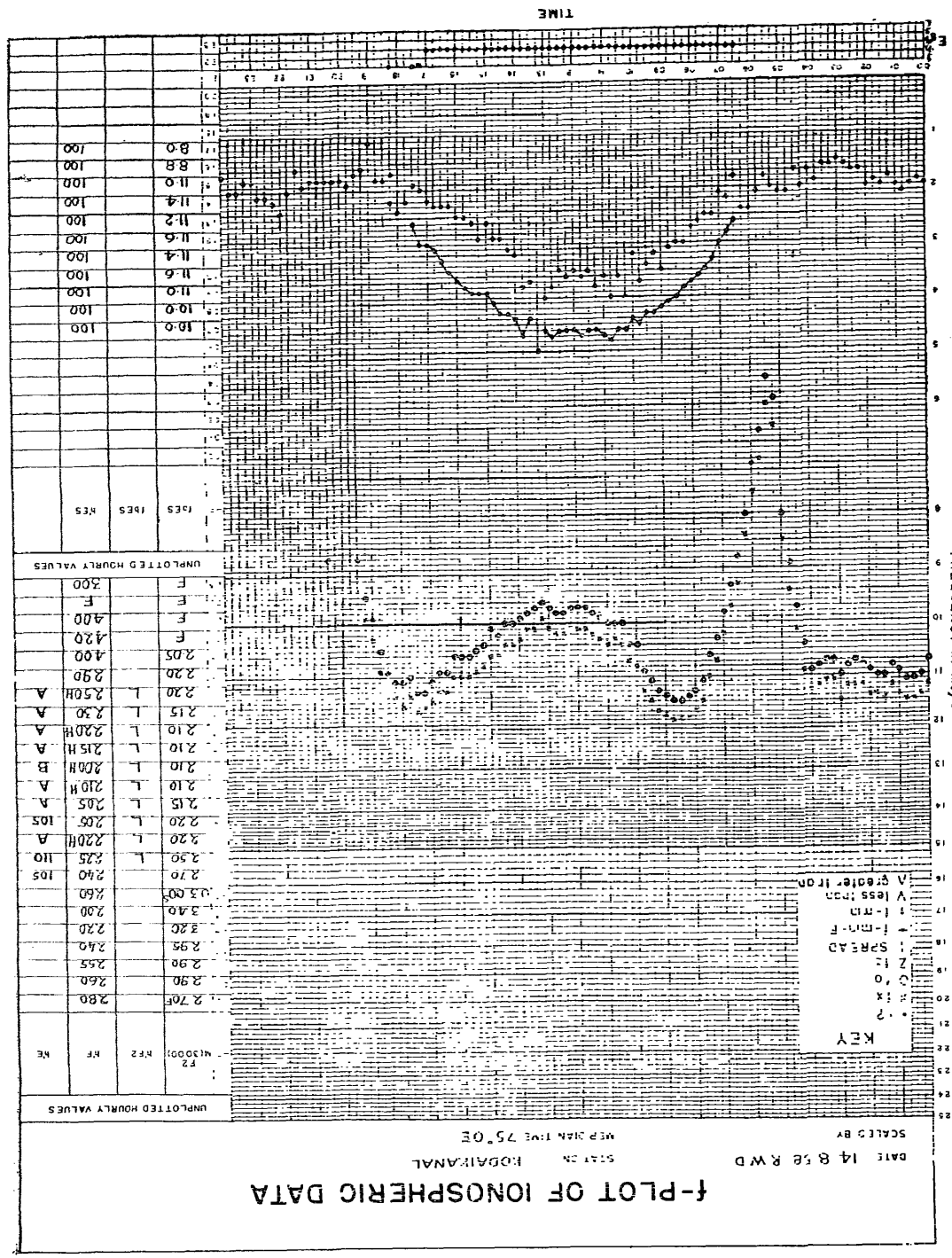


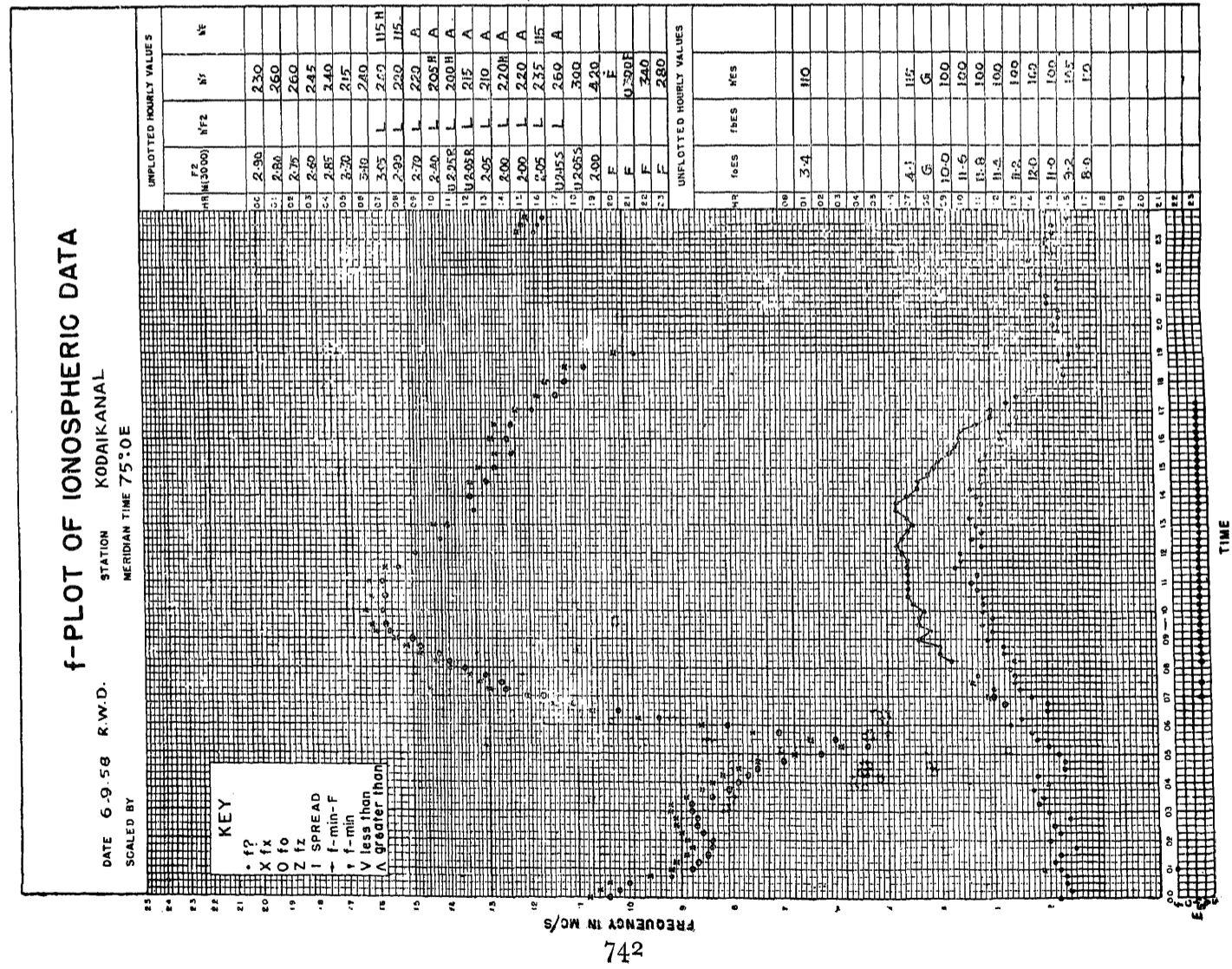
TABLE V



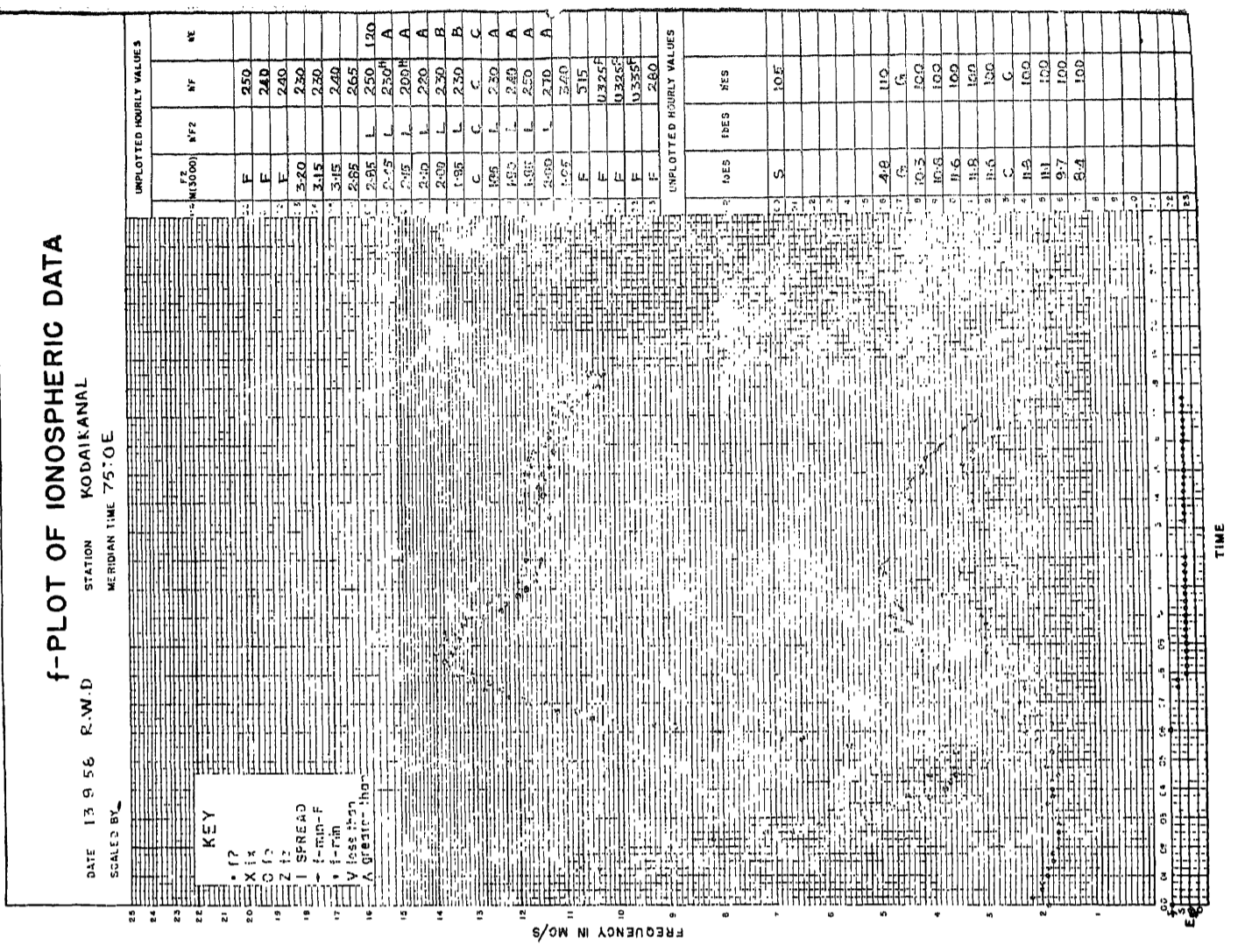
355

789

TABLE VIII



742



358

TABLE IX

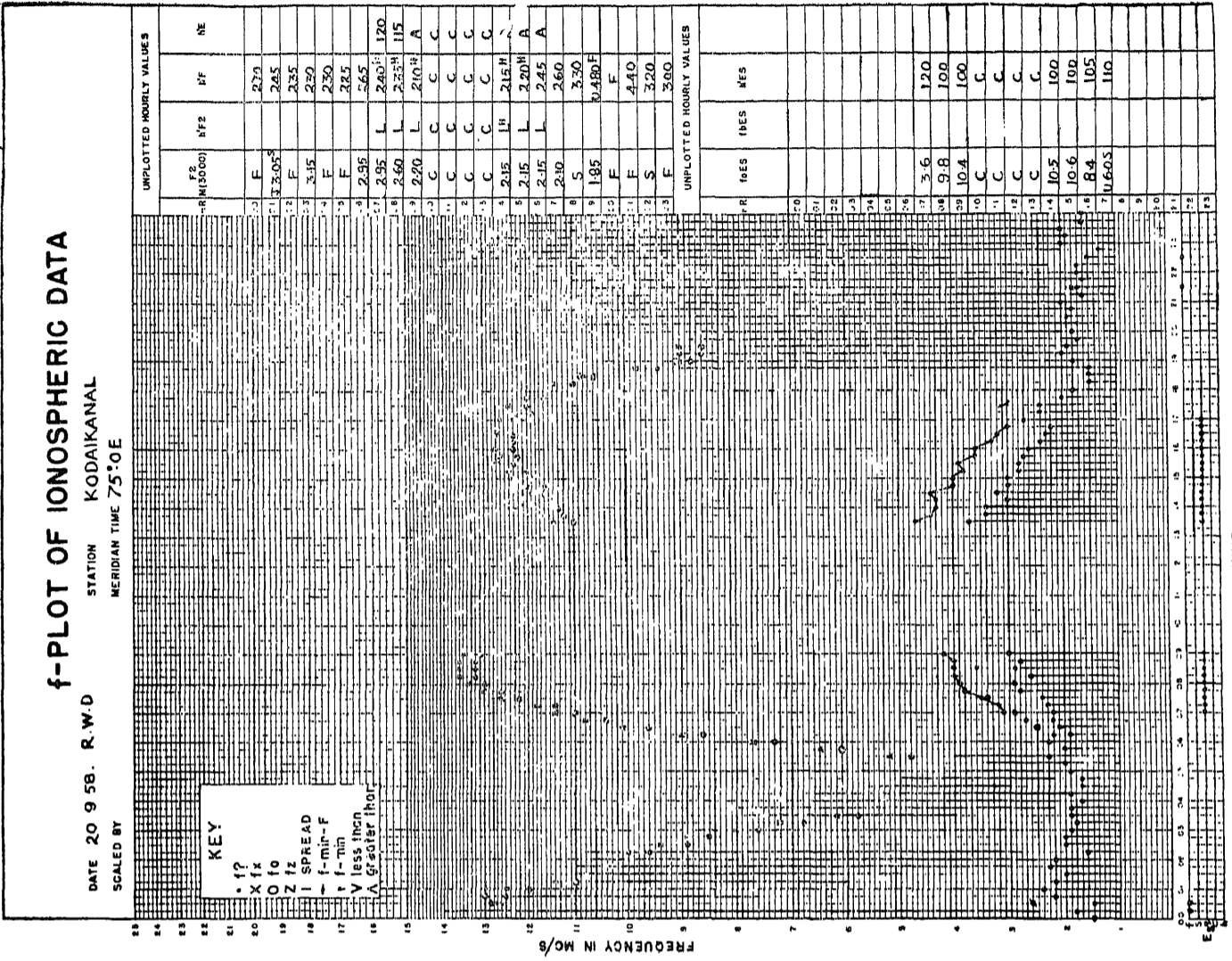
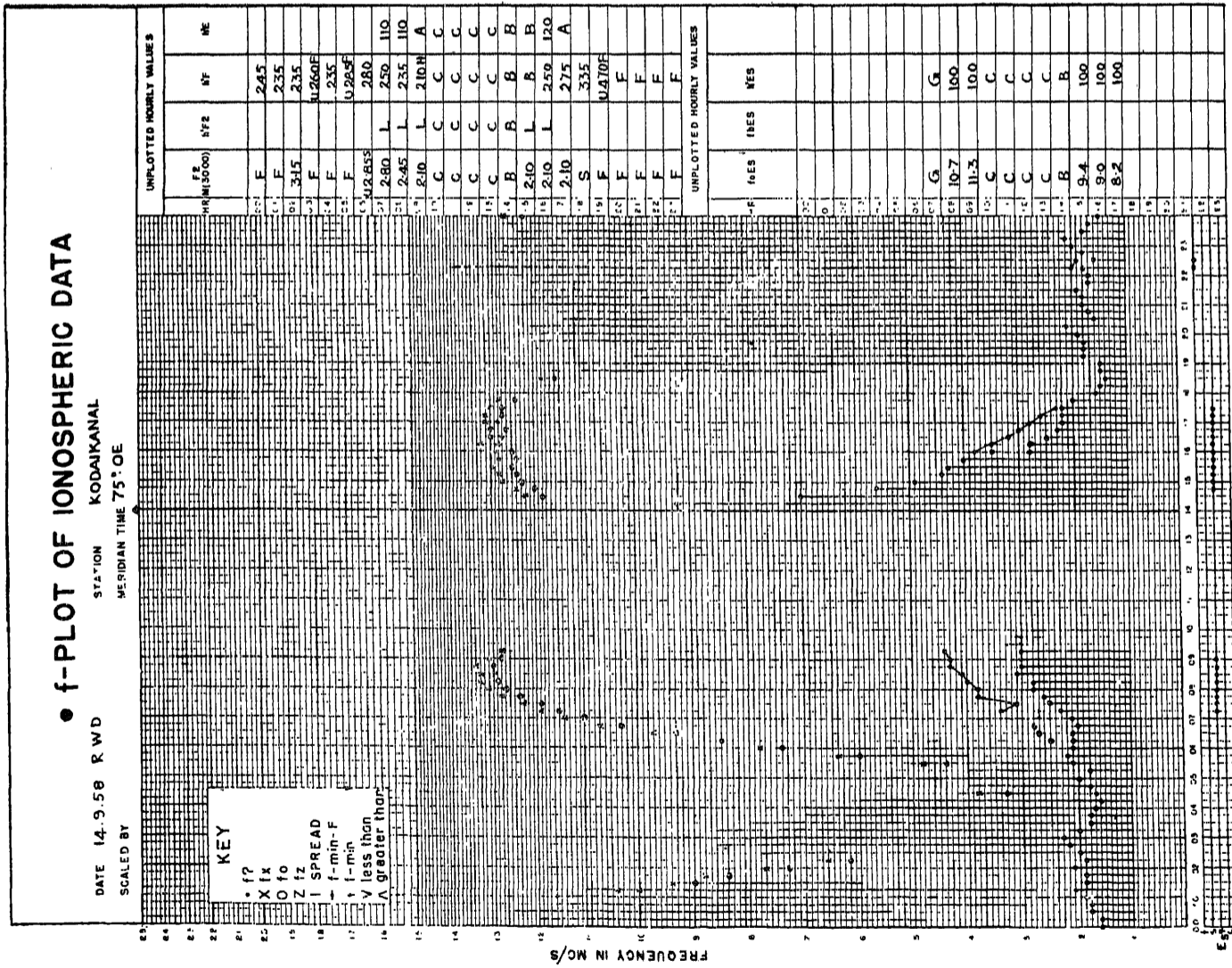


TABLE X.

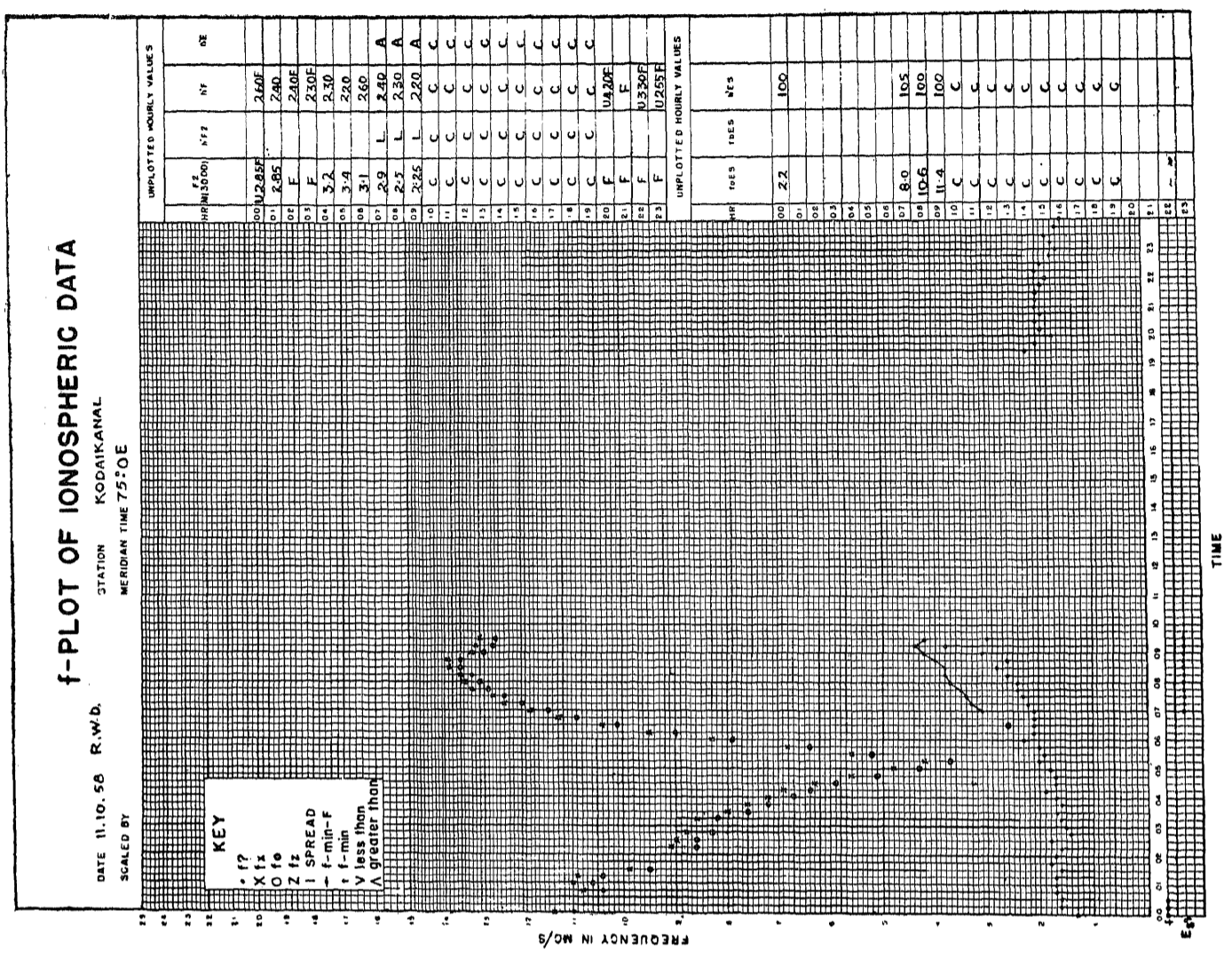
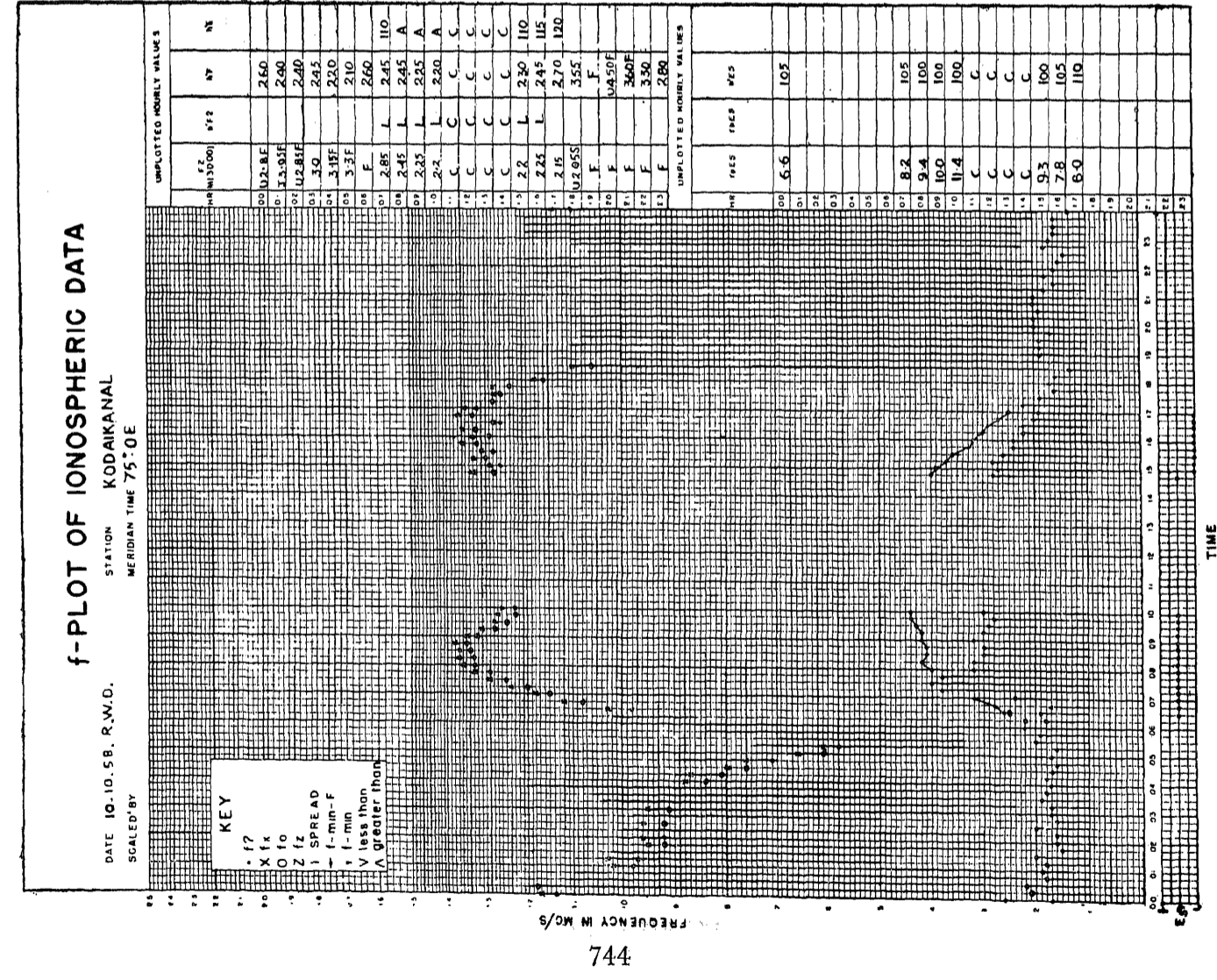
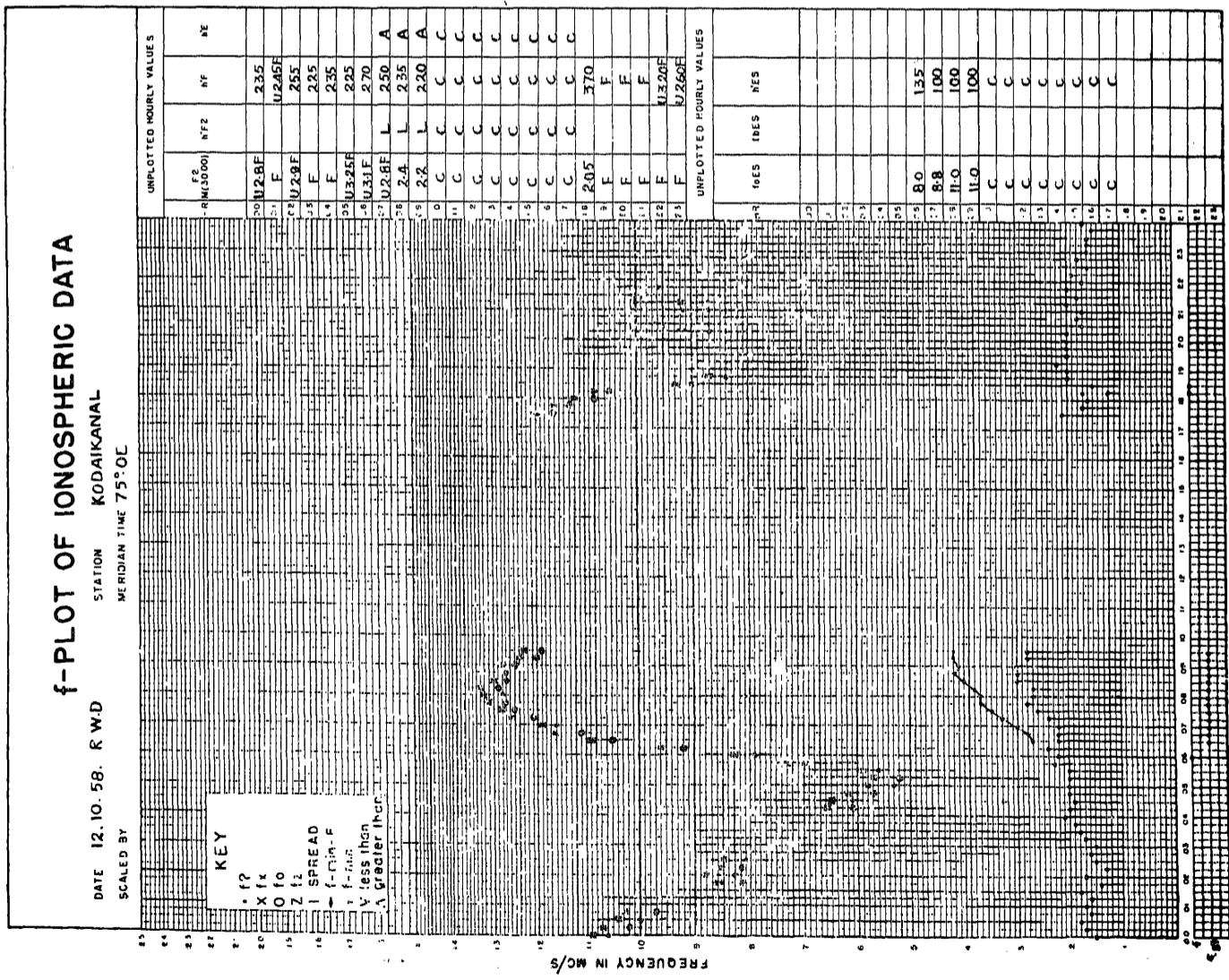
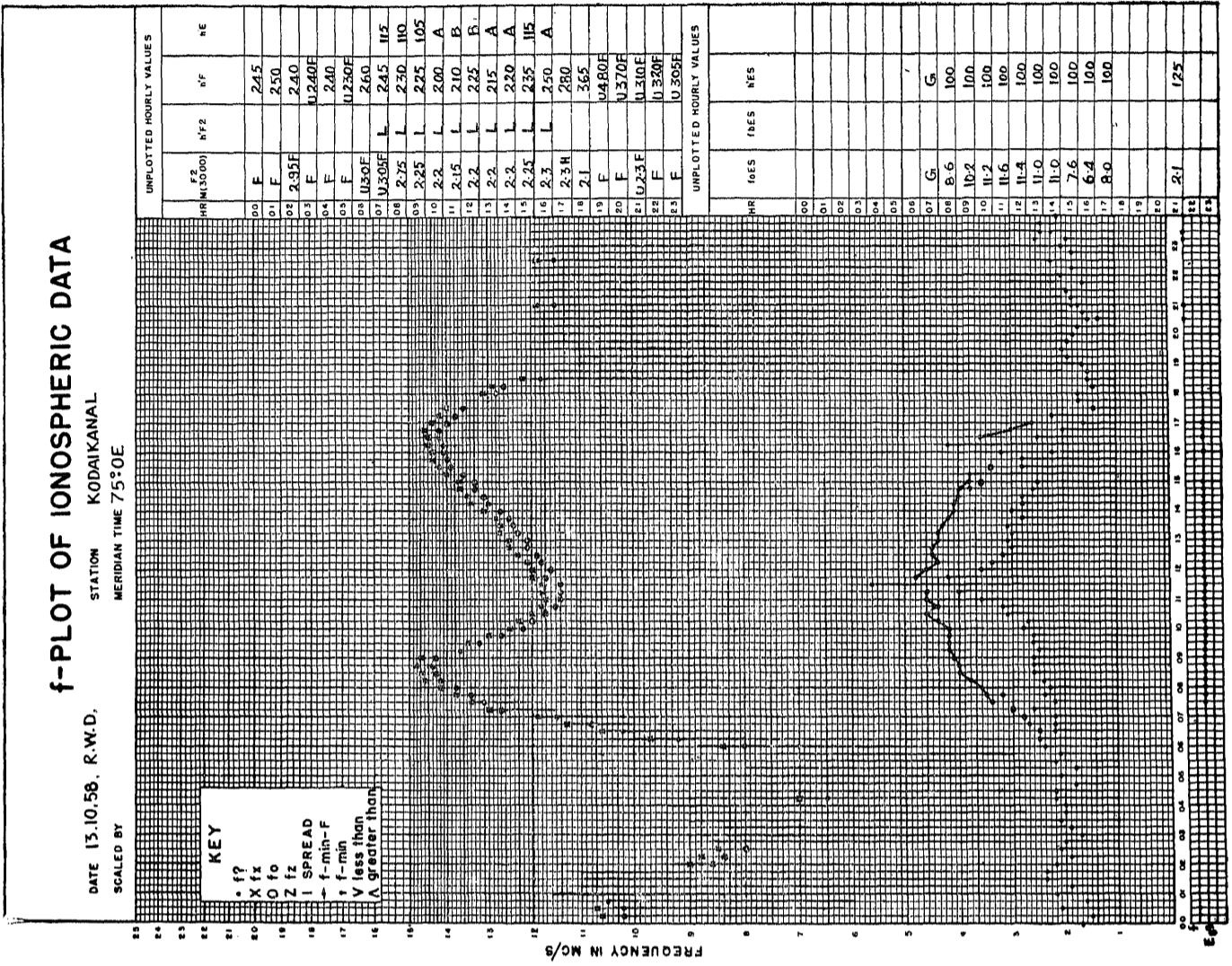


TABLE XI

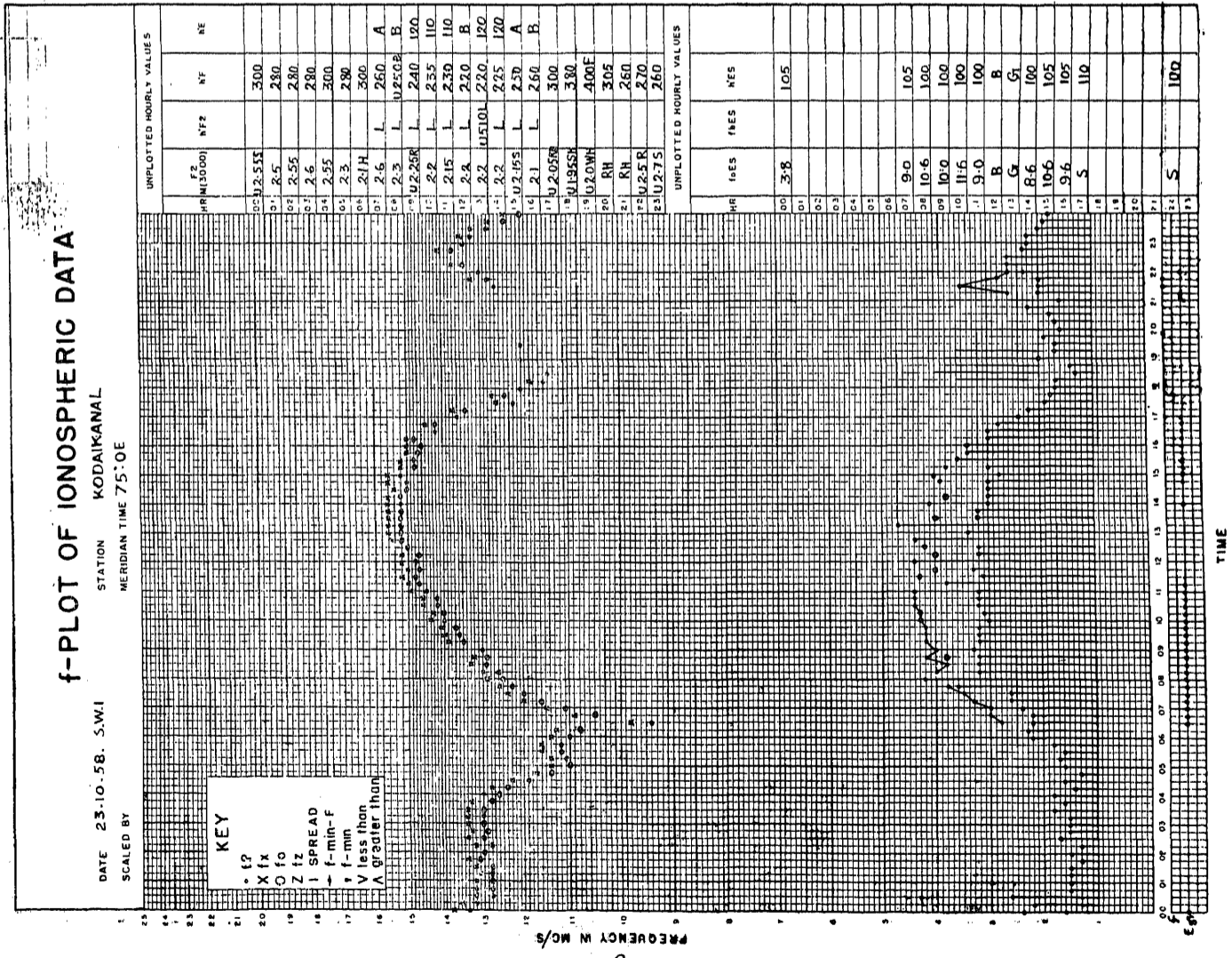


745

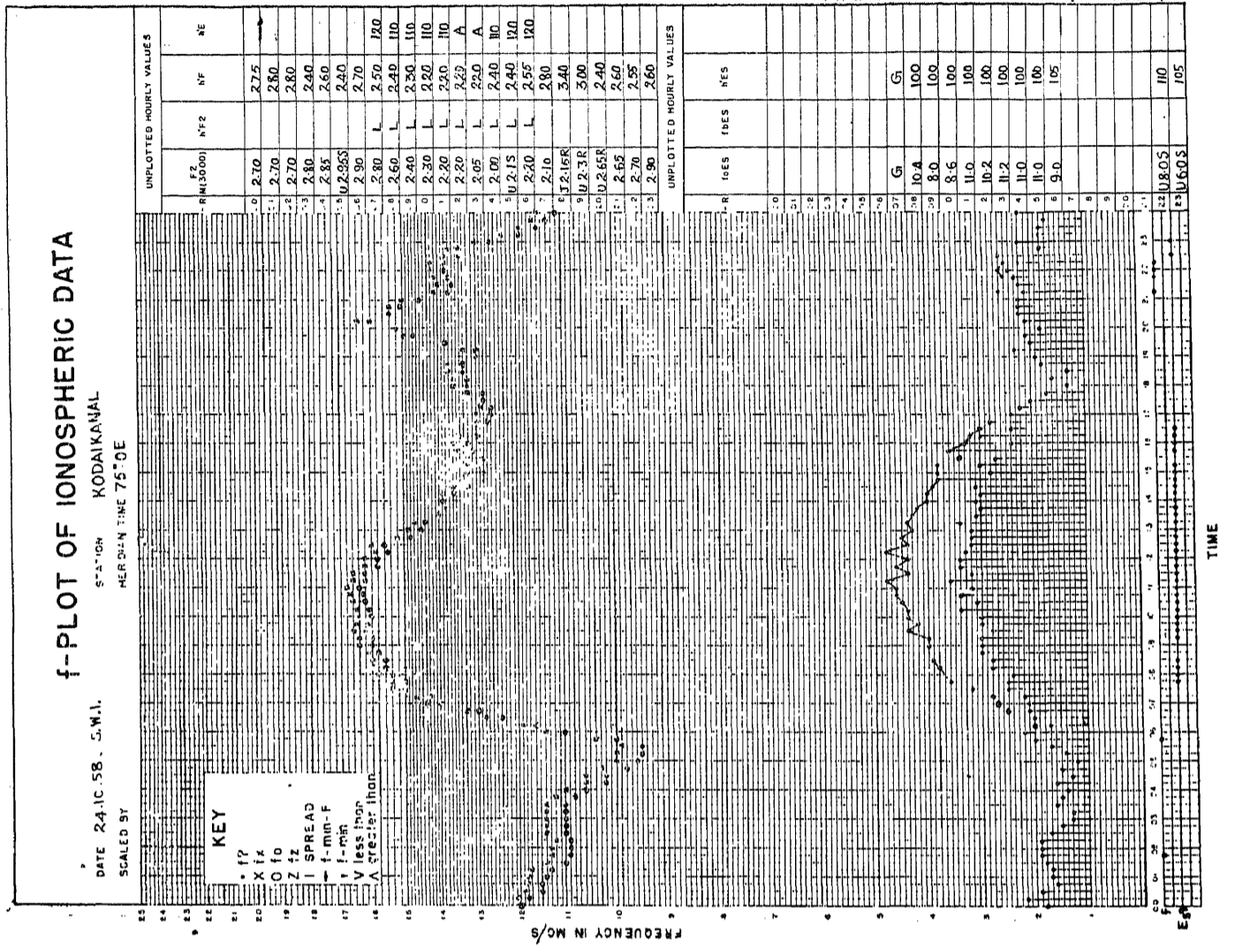


361

TABLE XII

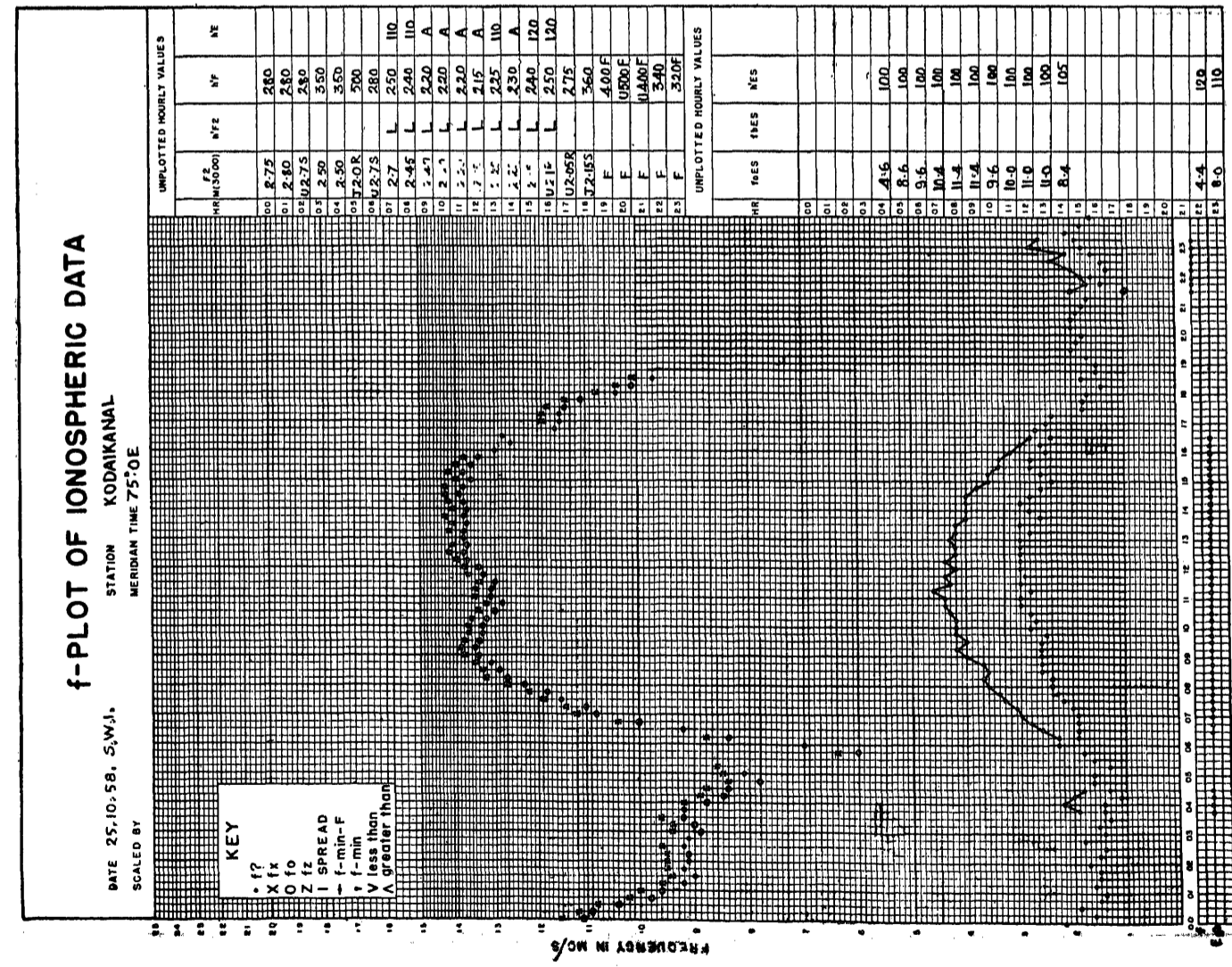


976

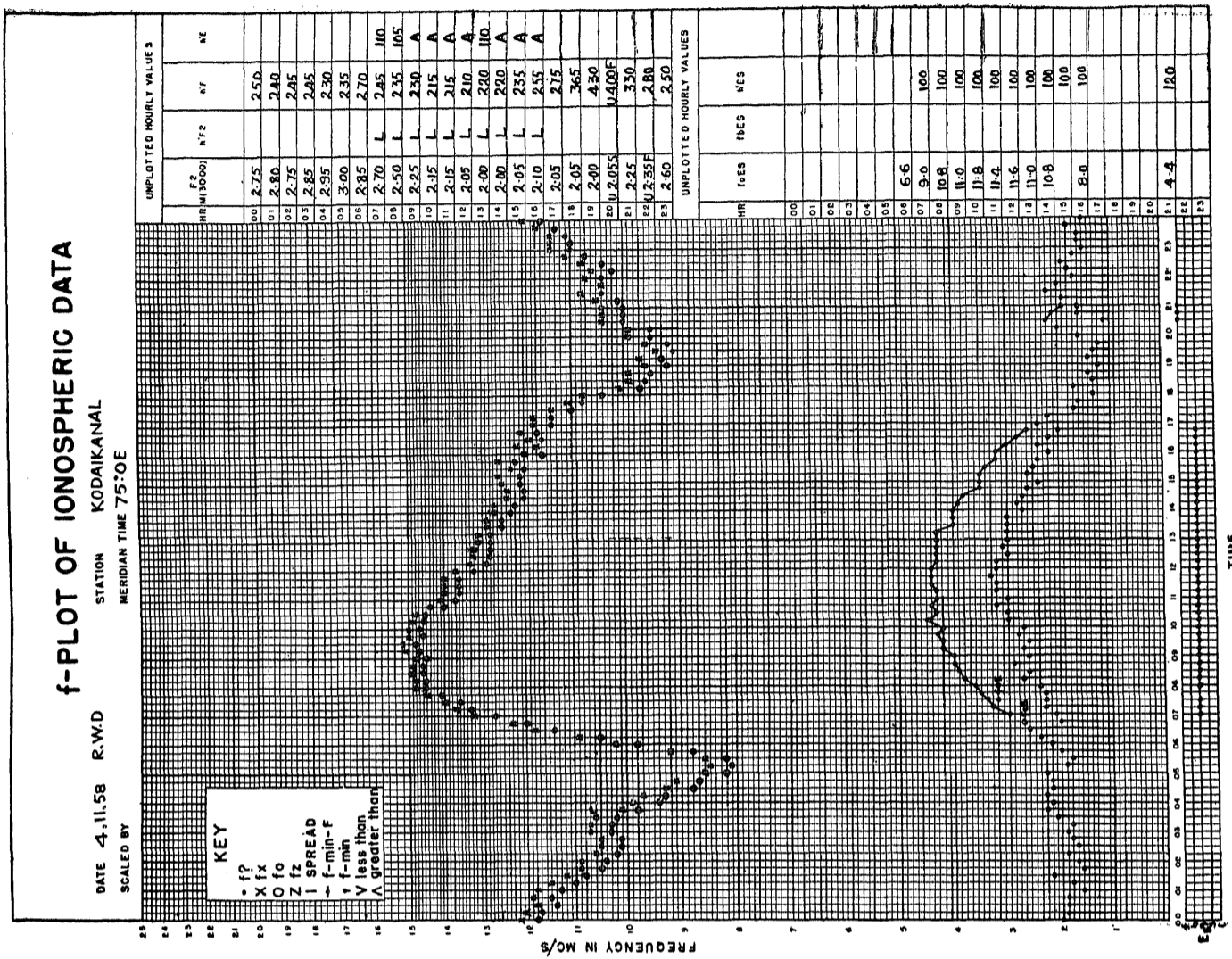


362

TABLE XIII



747



363

TABLE XIV

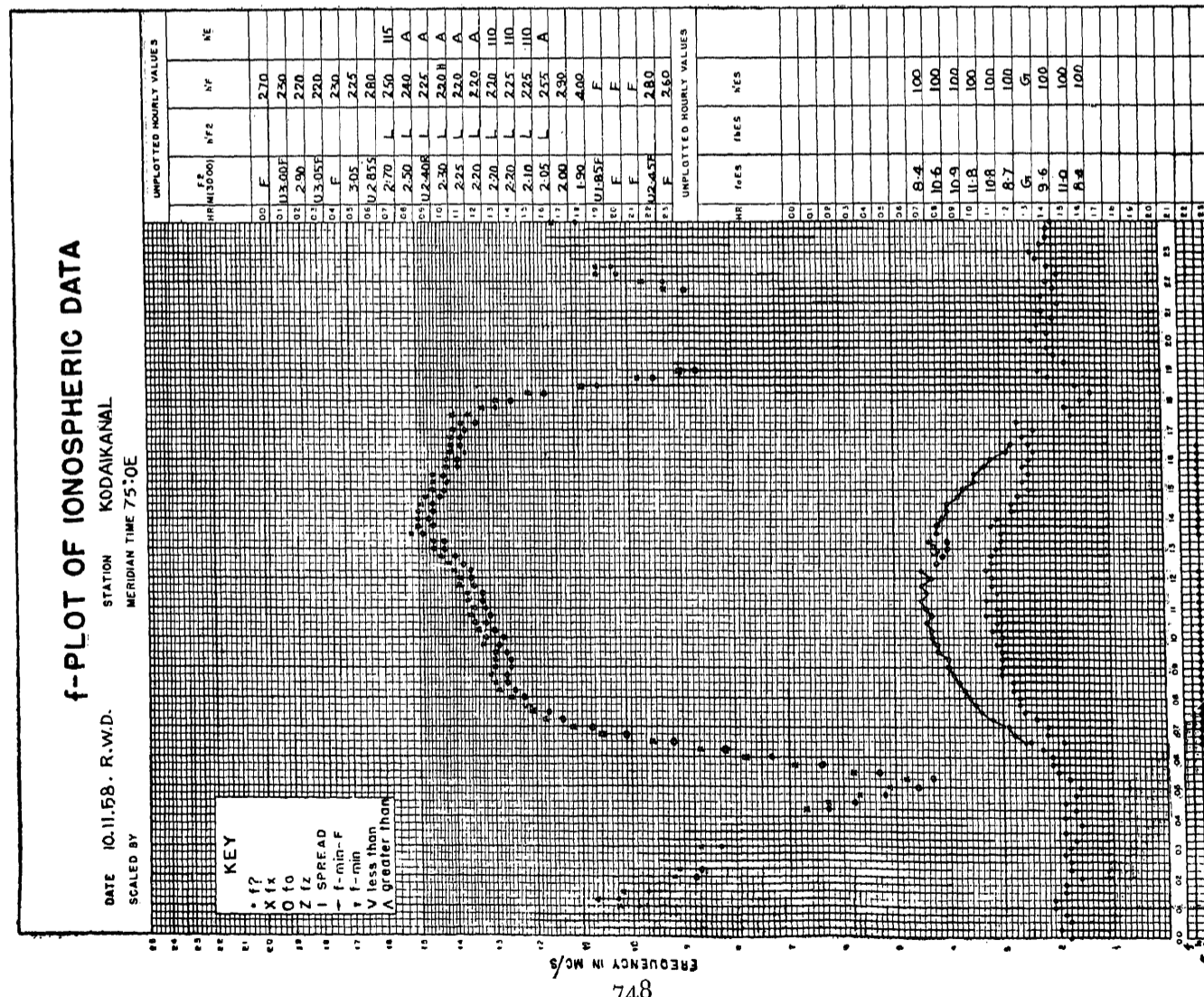
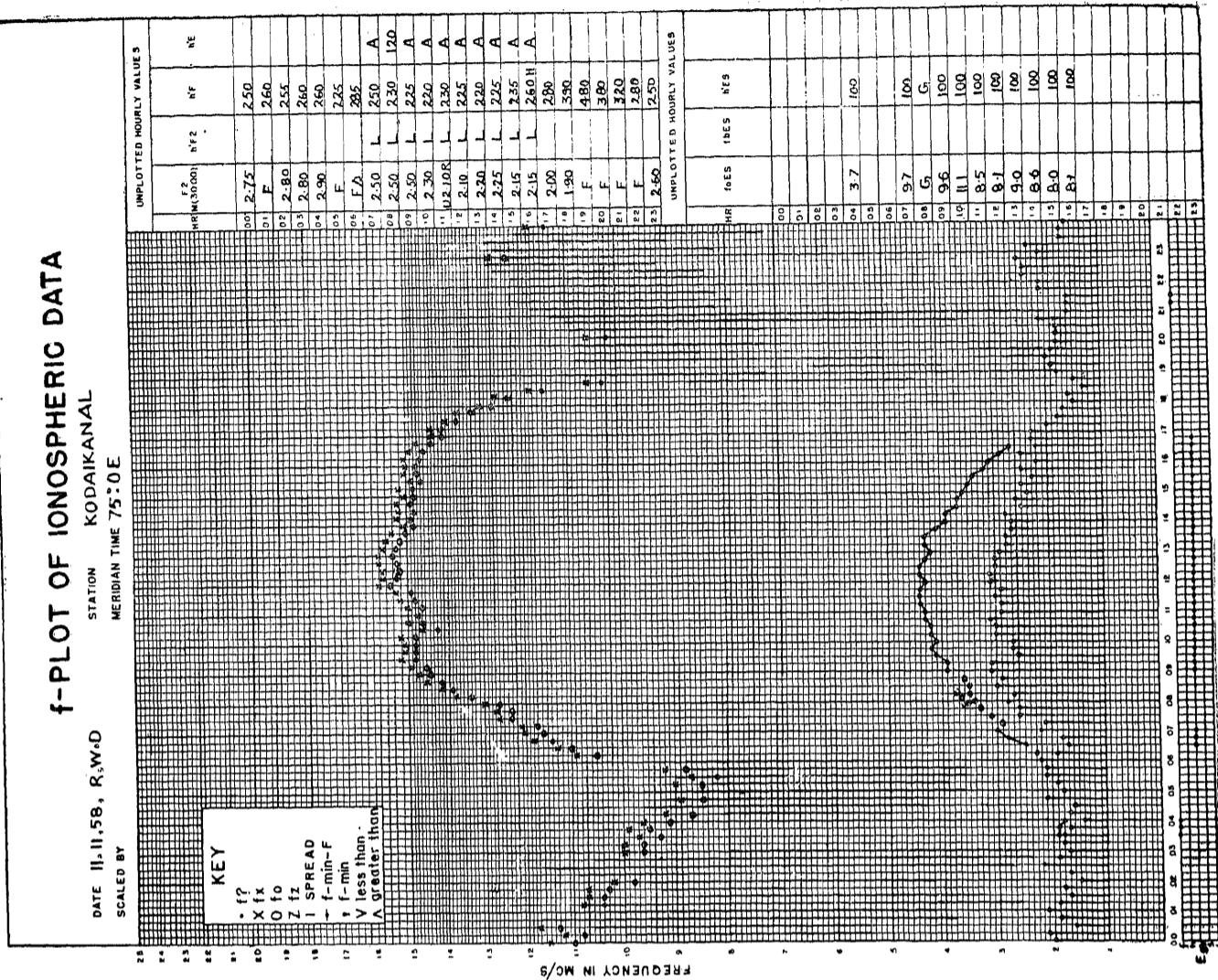


TABLE XV

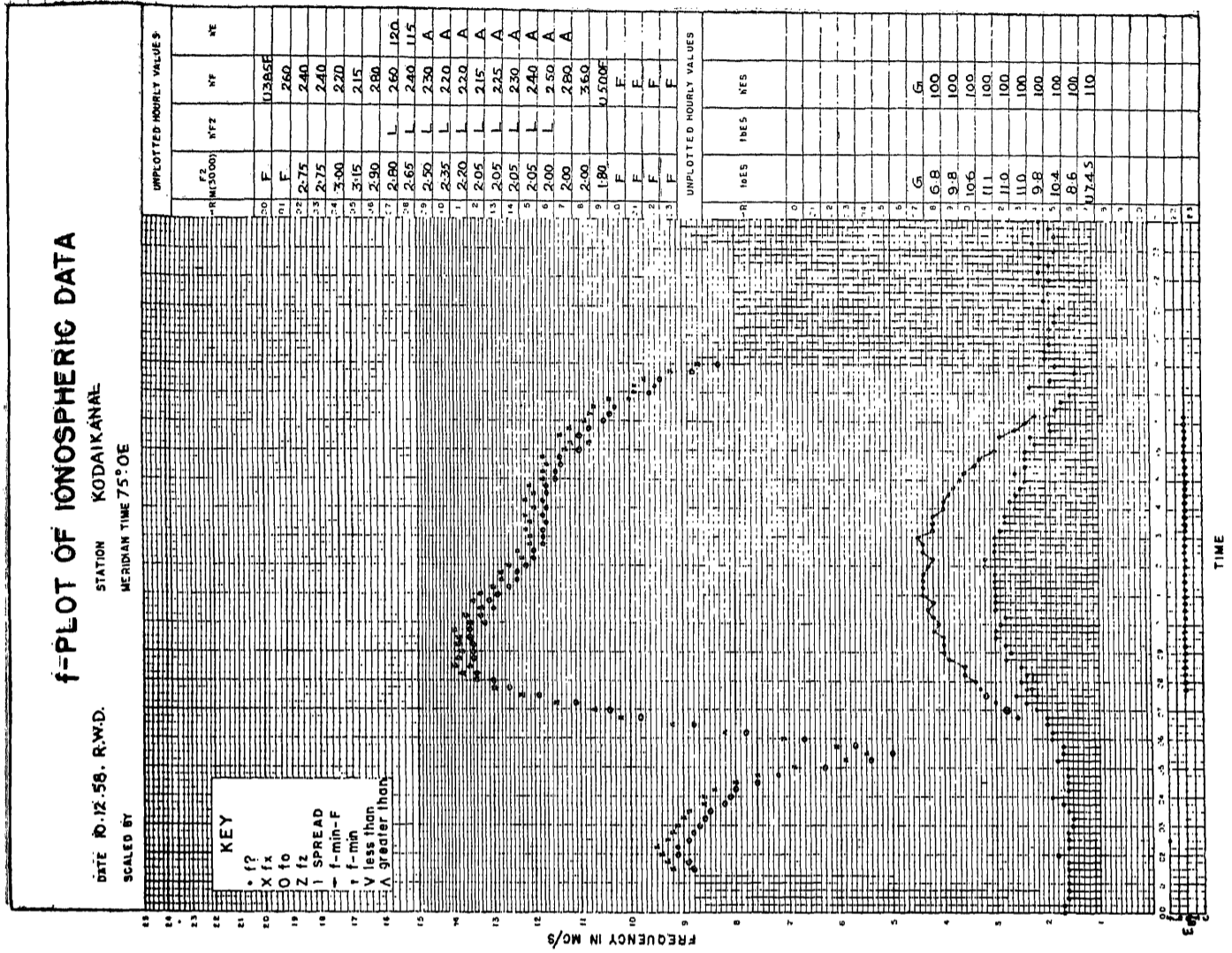
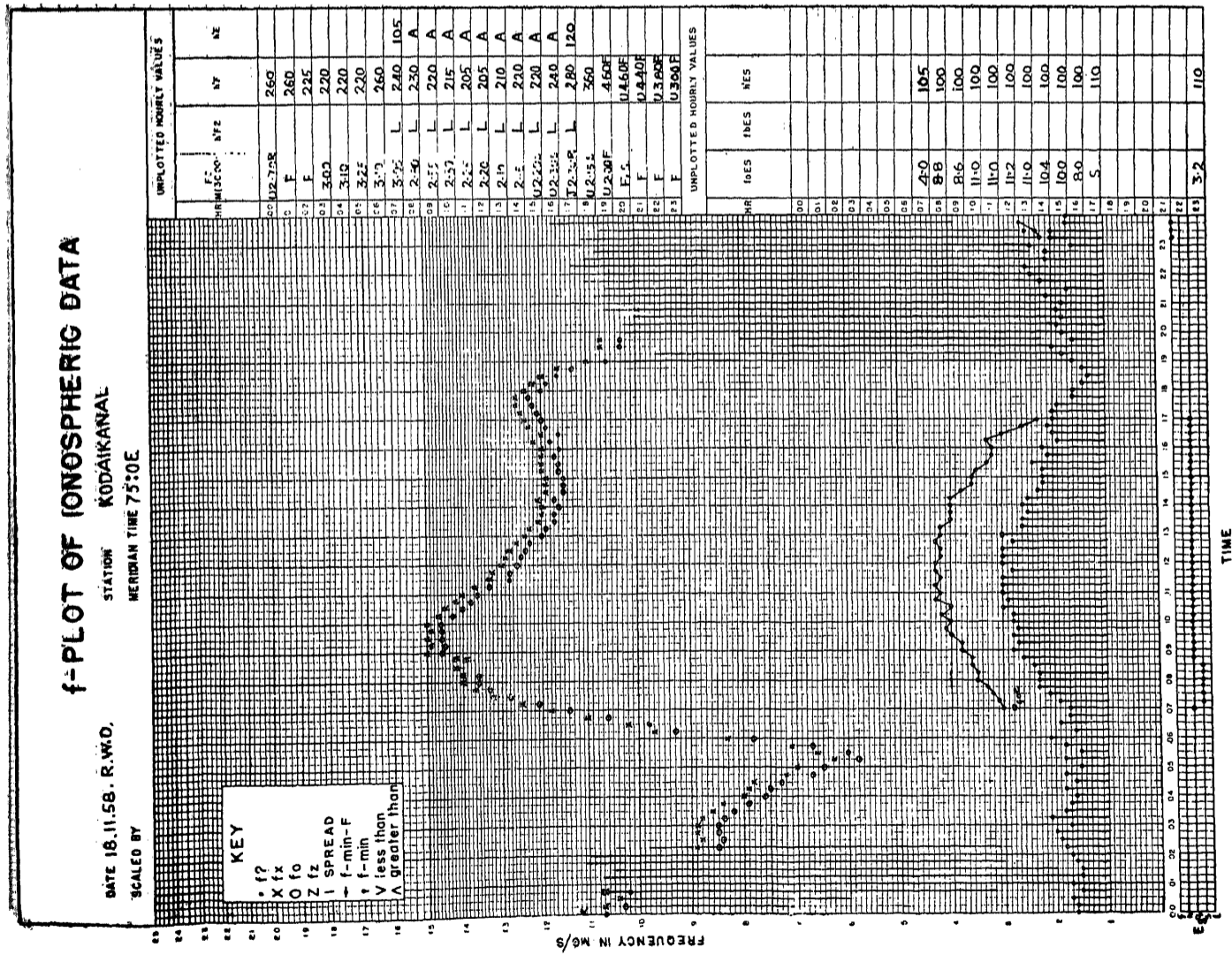


TABLE XVI

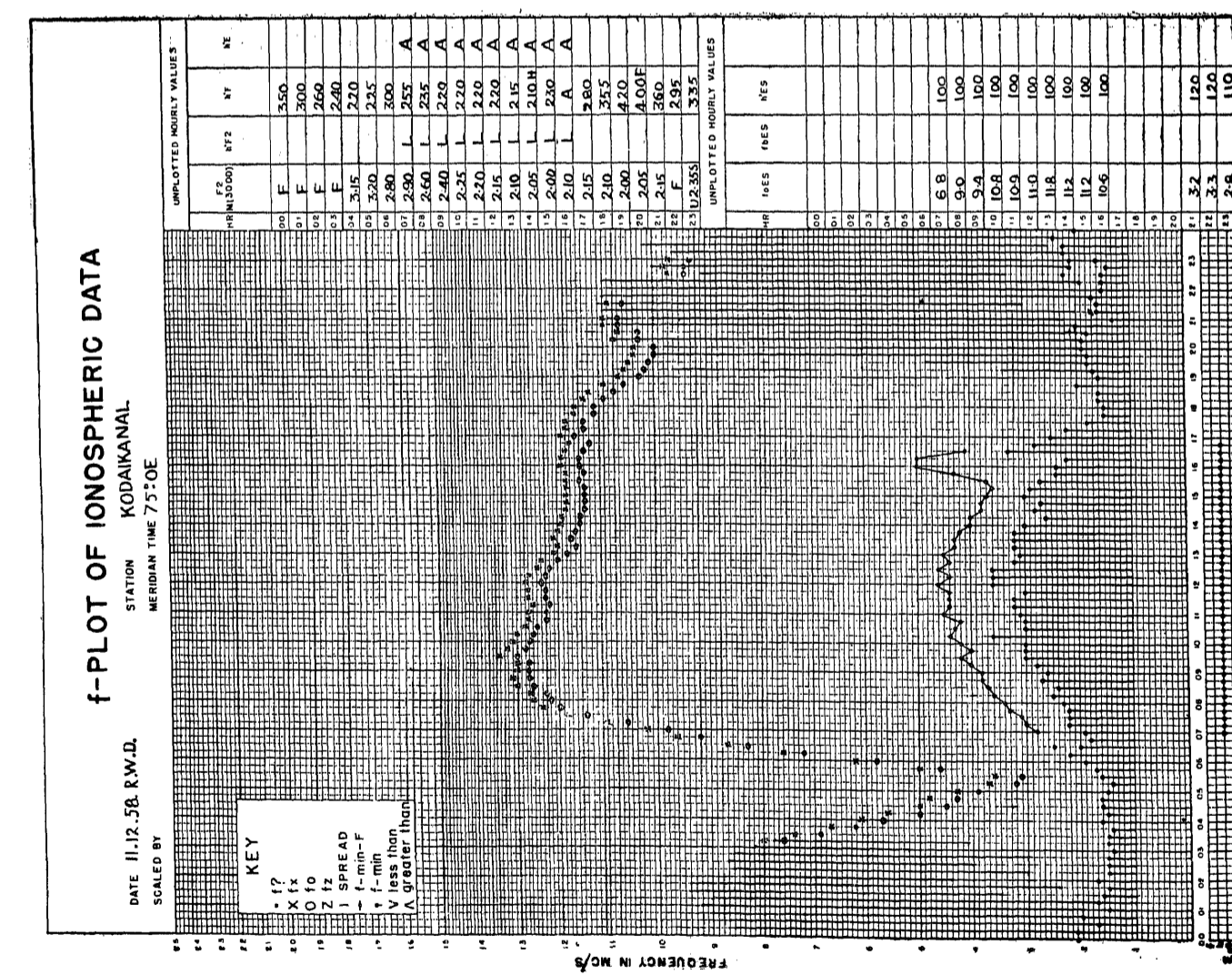
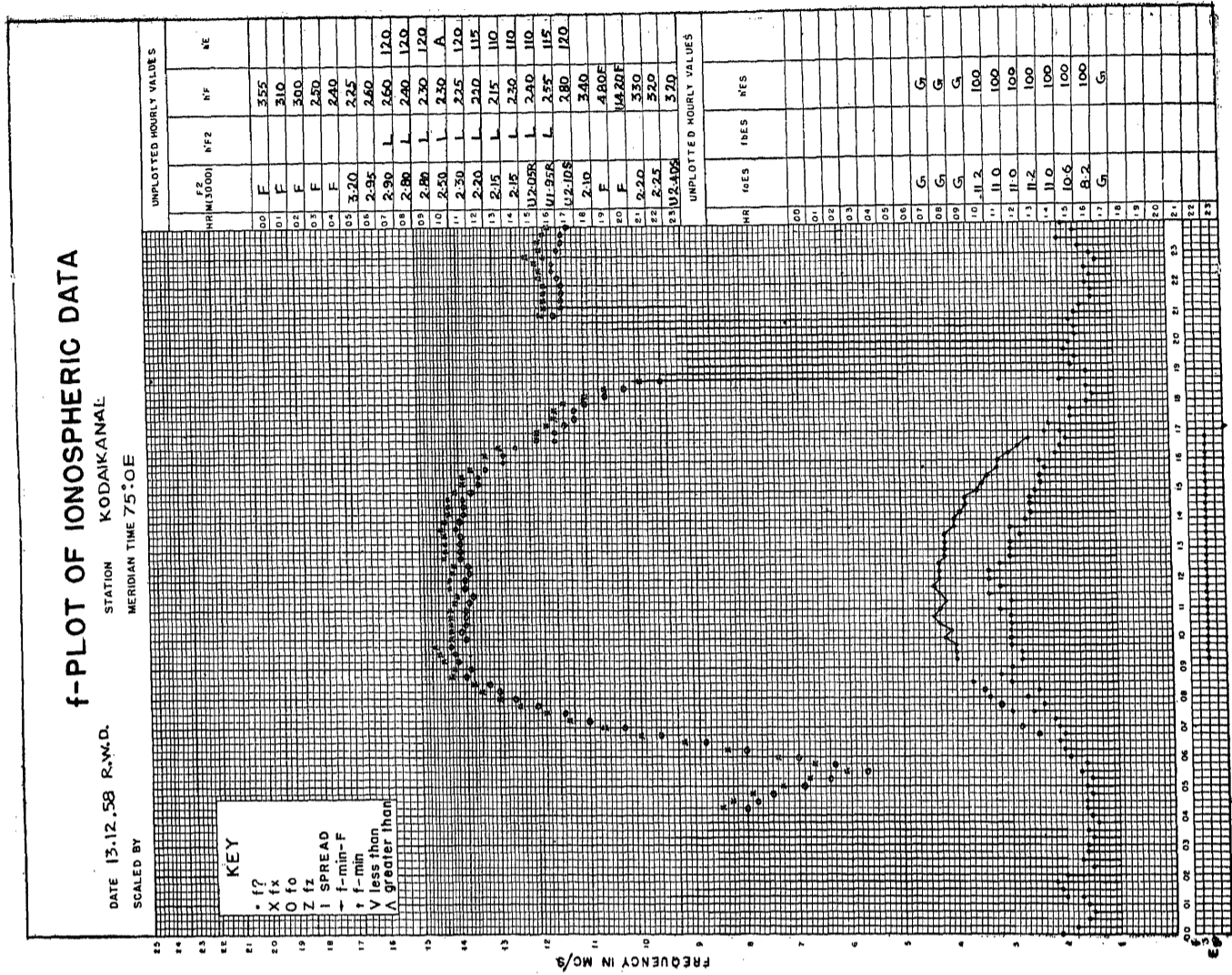
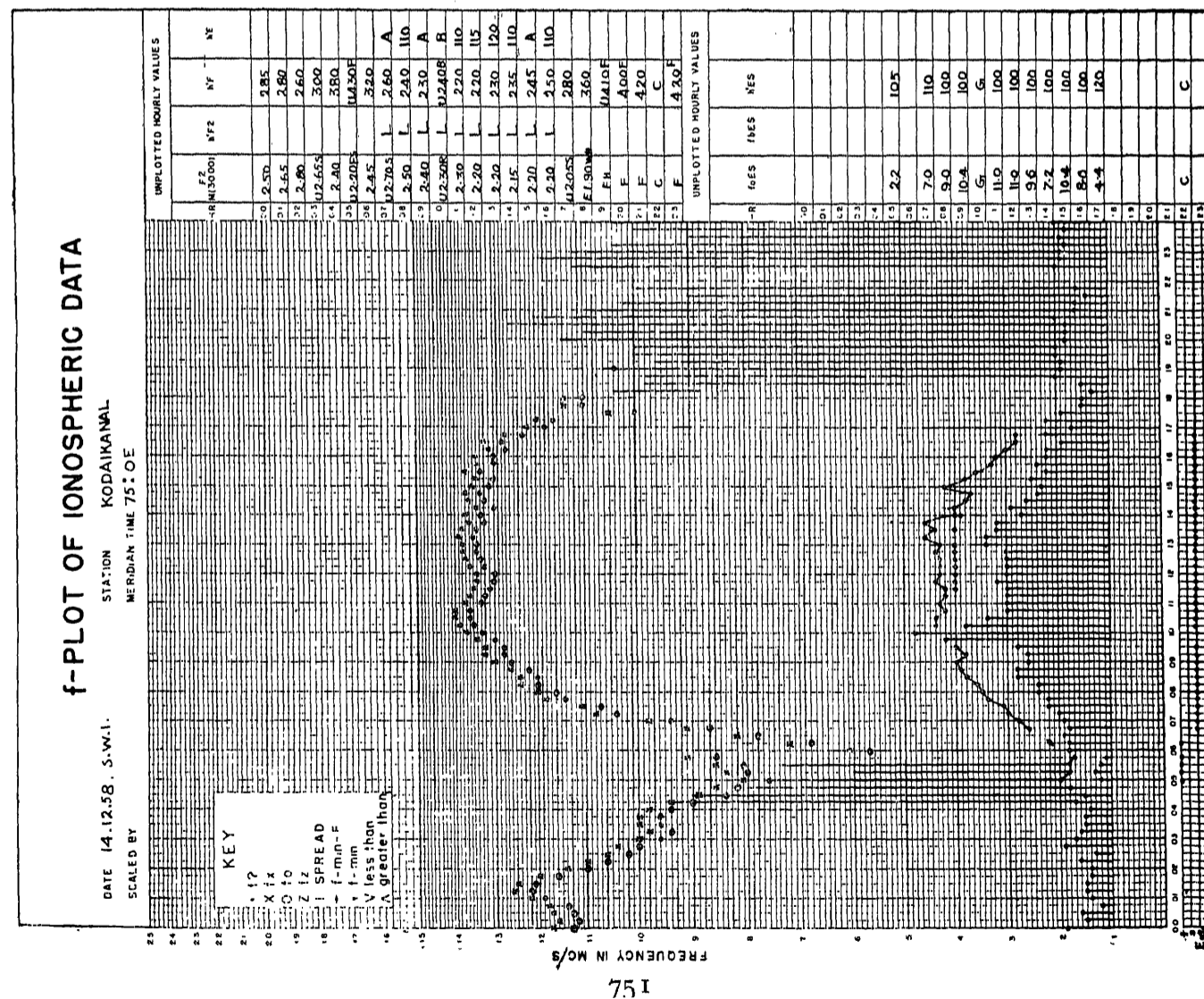
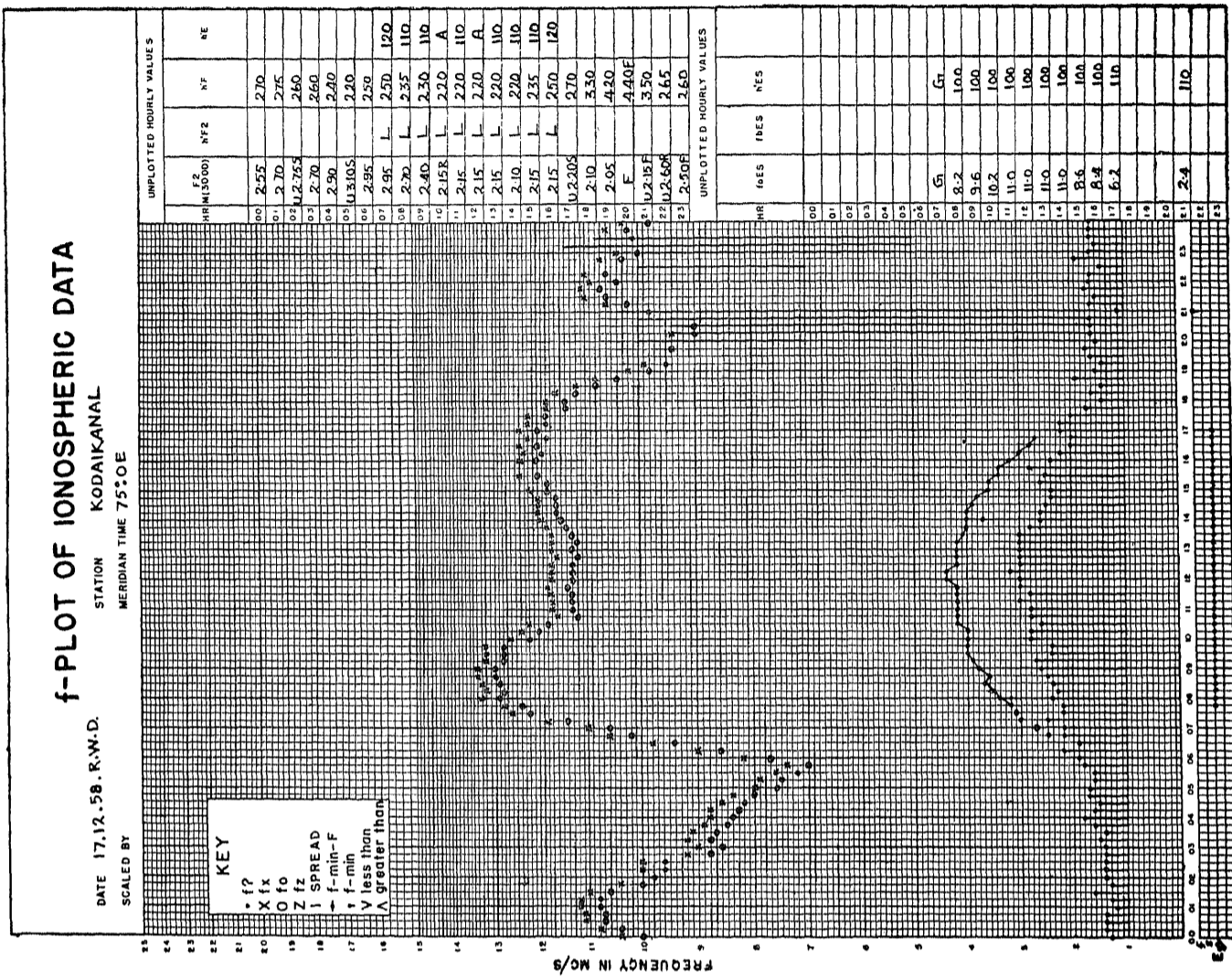


TABLE XVII



. 1 :

E R R A T A.

Kodrikamal Observatory Bulletin No. CLVII.

Page.	Table No.	Column.	Date	Read.	for.
4	II	8	Heading	Observed	Observe
7	IV	7	Heading	Long	Log
9	V	1	19 October	October 20	October 19
9	V	2	11 Decr.	Delete 1535-1540	1535- 1540.
10	V	1	19 Decr. (first)	December 18	Decr. 19.

Contd. 2.

Page.	Table No.	Column.	Date.	Read.	for
10	V	2	24th December	Delete 1130-1140 1155-1200 1450-1510	1130-1140 1155-1200 1450-1510
10	VI	4	14 July	Delete 0757	0757
11	VI	4	1 August	0801	0701
15	VI	2	17 November	1133	1123
15	VI	2	18 November	1123	1133
17	VI	2	30 December	Add 1427 after	1138
18	VII	2	6 September	1005	1015
18	VII	4	11 October	H	F
		(2nd group)			
19	VII	2	11 November	0835	0735
19	VII	1	14 November	14th	th
19	VII	4	16 December	H	...
		(3rd group)			
22	VIII	3	24 September	10	9
22	VIII	5	24 October	F	...
25	IX	7	Heading	f	r
26	IX	6	24 July	J	A
		(2nd group)			
28	IX	2	5 August	Delete 1345	1345
28	IX	2	11 August	1030	0500
28	IX	2	8 August	0940	0410
29	IX	2	18 August	0940	0410
30	IX	4	15 September	-08	08
		(11th group)			
35	IX	2	25 October	0905	0950
38	IX	7	5 November	3536	36
		(last group)			

BULLETIN NO. CLVII.

PAGE . II.

Page.	Table No.	Line/Date.	Hour/Column.	Read.	for.
327		11	15	36.1	6.1
327		1	Byrno	10.2	0.2
329		5	Mag.	10.5	0.5
329		4	Mag.	4++	4+
329		1	Mag.	5++	5+
329		12	Mag.	635	638
329		1	Mag.	4+	4
329		19	Mag.	507	507
329		19	Mag.	578	587
329		19	Mag.	1252	1253
329		8	Mag.	215	216
329		4	Mag.	27	407
329		17	Mag.	515	525
329		16	Mag.	559	530
331		26	Mag.	591	559
331		27	Mag.	0700	0600
345	16	12	Mag.	0615	0115
345		12	Mag.	7	7+
345	17	7	Date		

Page:	Table No.	Line/Date.	Hour/Column.	Read.	for
<u>PART - III.</u>					
63	4	24	1230	10.4	11.4
65	5	12	17	3.0	3.9
77	8	Median	13	200	220
90	11	24	0530	2.95	2.9S
110	16	13	1130	4.6	4.3
126	20	21	0630	110H	100H
136	23	27 -	02-	10.0	10.5S
165	30	Characteristic	-	h'F	h'E
182	34	9	1130	12.4	12.9
182		13	1130	11.4	11.0
182		14	1130	10.6	10.
182		15	1130	11.2	11.0
182		16	1130	C	.5R6
182		17	1130	J12.5R	J12.3
182		21	1130	13.9	13.4
182		22	1130	12.7	12
182		23	1130	14.3	14.2C
182		24	1130	16.2	16.9R
182		25	1130	13.0	13
182		26	1130	U12.2R	U12.8
182		27	1130	15.9	15.2
182		29	1130	C	-
204 & 205 &					
206	40	Characteristic	--	h'F2	h'E2
219	43	15	1230	100	110
219		15	1330	100	110
220	44	7	01	U2.90S	4290S
221		15	14	2.10	2.00
222		Mean	1130	2.10	-
		Median	1130	2.10	-
		Count	1130	23	-
261	54	Median	17	110	100
265	55	16	23	J2.90R	2.90R
265		23	21	J2.05F	2.05F
276	58	Count	11	1	..
289	61	19	22	2.5	8.5
308	66	30	06	J2.90S	2.90S
310		21	0930	2.40	24.0
311	25	25	1930	U2.05F	02.05F