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Kodaikanal Observatory

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INTRODUCTION

This Bulletin for the first half of 1958 contains apart from the usual summary of prominence and calcium flocculus observations, other additional data, especially collected for the I G Y, in respect of surges, active prominence regions and sunspots as well as information concerning the hours of flare patrol and the times at which photoheliograms and spectroheliograms were secured at this observatory

PART I

SUMMARY OF PROMINENCE AND CALCIUM FLOCCULUS OBSERVATIONS FOR THE FIRST HALF OF 1958

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

Calcium Prominences on the limb —During the half-year under review, photographs of calcium prominences on the limb were obtained at Kodaikanal on 152 days which were counted as 151 1/4 effective days after giving due weightage to the photographs according to their quality Spectroheliograms were obtained for fifteen days from the Meudon Observatory and for 20 days from the Mount Wilson Observatory In all complete observations were available for 171 1/4 effective days

The mean daily areas (in square minutes of arc) and the mean daily numbers of prominences derived from all the above records are given below —

		Combined data	
		Mean daily areas (Sq minutes)	Mean daily numbers
North	. . . . .	4.37	5.63
South	. . . . .	2.07	3.80
TOTAL		6.44	9.43

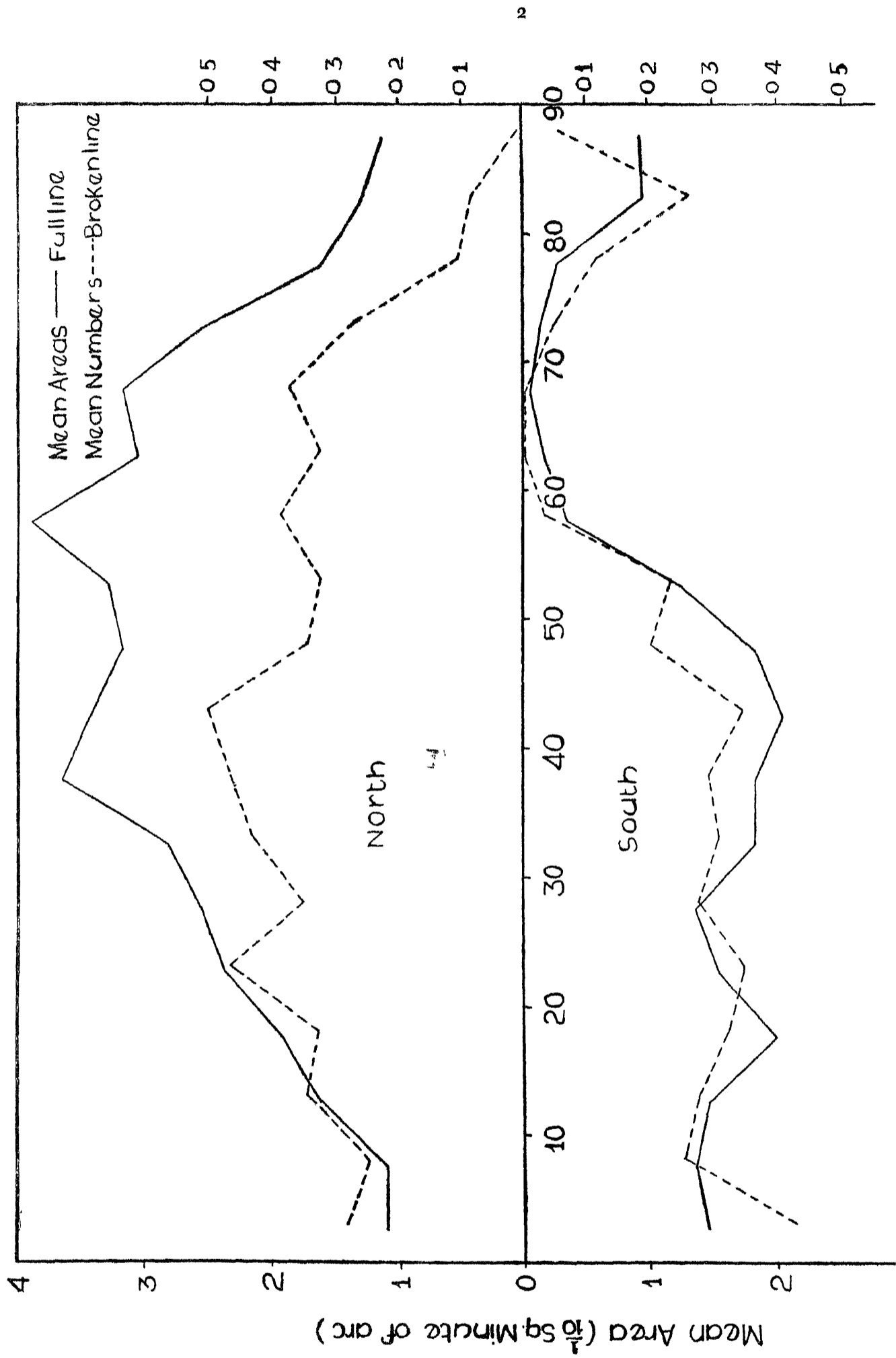
The above figures show that compared to the previous half-year there has been a slight increase in areas and numbers amounting to 6.8 per cent and 5.8 per cent respectively

For comparison with data published in bulletins prior to 1923, i.e. before the co-operation of the other observatories came into force, the following table gives the values based on Kodaikanal Observations alone.

		Kodaikanal data	
		Mean daily areas (sq minutes)	Mean daily numbers
North	. . . . .	3.94	5.41
South	. . . . .	1.89	3.12
TOTAL		5.83	8.53

The distribution of areas and numbers in five-degree ranges of latitude as obtained from the combined data is represented in diagram I. The peaks of activity for areas in the northern hemisphere are in the latitude belts 35°—40° and 55°—60°. In the southern hemisphere the maximum activity is in the belt 40°—45°. The activity near the poles has increased considerably in comparison with the previous half-year.

DIAGRAM I
 Mean Areas & Mean Numbers of Calcium Prominences
 January-June 1958



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

TABLE I

1958 Months	No of effective days	Area (in sq minutes)	Numbers	Daily Means		Mean height	Mean extent
				Area (sq minute)	Numbers		
January	29½	183.05	287	6.15	9.65	56.2	4.92
February	25	147.90	224	5.92	8.96	54.0	5.52
March	30	229.80	314	7.66	10.46	53.8	5.22
April	28	171.25	272	6.12	9.71	54.5	5.42
May	29	165.35	250	5.70	8.62	55.2	5.21
June	29½	206.80	268	7.01	9.08	54.6	5.85
1st quarter	84½	560.75	825	6.62	9.73	54.7	5.19
2nd quarter	86½	543.40	790	6.28	9.13	54.7	5.64
1st half-year	171½	1104.15	1615	6.45	9.43	54.7	5.41

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

1958 January-June	East	West	Percentage East
	Total area (sq minutes)	559.10	545.05	50.6
Total number	808	807	50.0

The figures indicate that both areas and numbers are distributed almost equally between east and west

Observations with the Prominence Spectroscope.—17 bright reversals of H-alpha line and 2 dark reversals of D₃ line on the disc near sunspots were observed during the period

The mean heights in H-alpha D₃ and H-beta lines of 15 prominences observed with the spectroscope and the mean height in the K-line of the same prominences measured from the calcium spectroheliograms were as follows —

	Mean height
K	108.7
H-alpha	95.1
D ₃	80.3
H-beta	74.8

Observations with the Hale Spectrohelioscope—Details of Doppler displacements in prominences and dark markings observed with the H-alpha line are summarised below —

	North	South	East	West	Total	Displacements		
						To red	To violet	Both ways
Displacements in Prominences	40	31	38	33	71		1	70
Displacements in dark markings	18	7	13	12	25			25

Solar Flares—

The following table (table II) gives details of solar flares observed during the period

TABLE II

Date 1958	Time in I S T			Mean latitude	Mean Longitude from Central Meridian	Intensity	Maximum width of H-alpha line observed	Remarks
	Beg h m	Max h m	End h m					
January 15 . . .	10 30	10 44	11 07	14°S	52°W	1	A° 1 9	Observed in spectrohelioscope
January 25 . . .	15 40*			25°S	73°W	Probably 2	2 4	Ditto (observed through passing clouds)
February 26	10 19*		10 22	17°S	16°W	1	1 8	Observed in spectrohelioscope
February 26 . . .	11 20*		11 30	17°S	60°W	1	2	Ditto
March 3	16 10*			15°S	54°E	Probably 2	2 0	Ditto (through thick clouds)
March 10	07 40	07 43	07 47	11°N	35°E	1	2 0	Observed in spectrohelioscope
March 21	15 51	15 52	16 10	20°N	20°E	1+	4 0	Ditto.
March 25	11 08*		11 17	15°N	25°E	1+	2 0	Ditto
April 2 . . .	10 32*		10 37	26°S	34°W	2	4 8	Ditto.
April 3 . . .	09 42	09 50	09 58	15°S	19°E	1	2 2	Ditto
April 8	08 35	08 48	09 08	17°S	47°W	1	2 8	Ditto
June 6 . . .	10 28*		10 37	17°N	78°W	Probably 2	2 4	Ditto
June 10	11 32*		11 42	44°N	03°W	1	1 6	Ditto
June 11	08 01*		08 10	44°N	17°W	1+	2 6	Ditto
June 19	07 42	07 48	08 07	15°N	19°W	2	2 7	Ditto
June 26	08 15	08 16	08 20	10°N	48°E	1	1 6	Ditto

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

Sudden disappearances of Prominences and H-alpha Dark Markings—Details of sudden disappearances of prominences and H-alpha dark markings observed during the period are summarised in Table III.

TABLE III

Nature of Phenomena	Date and time of Phenomenon when last seen			Coordinates of Phenomenon		Remarks
	Month	Date	I S T	Mean latitude	Mean Longitude	
H-alpha dark marking	March	28	1425	50°S	40°E	Not seen on spectroheliogram taken at 0840 of 29th

Prominences projected on the disc as absorption markings—During the period under review photographs of the sun's disc in H-alpha line were obtained at Kodaikanal on 158 days. Spectroheliograms were also received for 15 days from the Mount Wilson Observatory and for 11 days from the Meudon Observatory. On the whole records were available for 172 effective days after giving due weightage to the quality of the photographs.

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 data are as follows—

		Combined data	
		Mean daily area (millionths of the sun's visible hemisphere)	Mean daily number
North	.	2867	15 80
South	.	1874	11 87
TOTAL		4741	27 67

On comparing with the previous half-year's values, these figures show a very slight increase in activity, the areas showing an increase of 2.5 per cent and the numbers 1.4 per cent. The figures based solely on Kodaikanal photographs are also given for purposes of comparison with similar data.

		Kodaikanal data only	
		Mean daily area (millionths of the sun's visible hemisphere)	Mean daily numbers
North	.	2927	15 74
South	.	1939	11 93
TOTAL		4866	27 67

The distribution of the areas of the markings in five-degree ranges of latitude as obtained from the combined data is shown in diagram II. In the northern hemisphere the distribution is almost the same as in the previous half-year with the peak of activity in the latitude belt 35° — 40° . In the southern hemisphere the maximum activity is in the zone 25° — 30° with a secondary maximum in the latitude belt 40° — 45° .

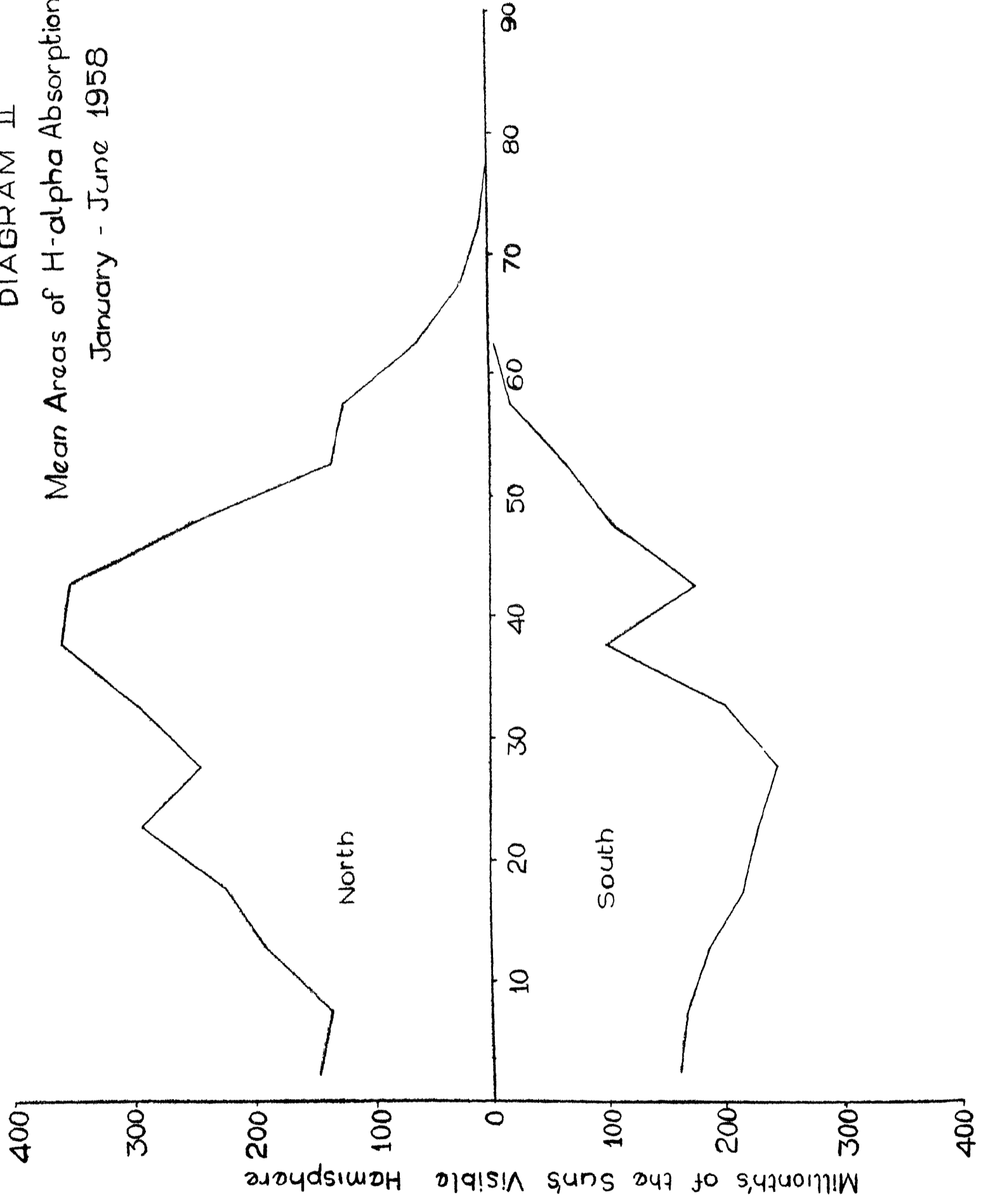
The distribution of total areas and numbers of the dark markings east and west of the sun's axis is as follows:—

		Combined data		
		East	West	Percentage East
Total area (millionths of the sun's visible hemisphere—uncorrected for foreshortening)	.	393,096	422,040	48.2
Total number	.	2358	2403	49.5

The areas and numbers show a slight western preponderance.

Calcium Flocculus—During the half-year under review, calcium flocculus spectroheliograms were secured on 155 days at Kodaikanal. Calcium spectroheliograms for 19 days were received from the Mount Wilson Observatory and for 15 days from the Meudon Observatory. In all observations were available for 174 1/2 effective days.

DIAGRAM II
 Mean Areas of H-alpha Absorption Markings
 January - June 1958



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

		Combined data
		Mean daily area (millionths of the sun's visible hemisphere)
North	.	16,305
South	.	11,529
TOTAL	.	27,834

Compared to the previous half-year's value there is a decrease of 8.5 per cent 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 (millionths of the sun's visible hemisphere)	2,617,721	2,217,811	53.8

The western excess noticed during the previous half-year has changed into an eastern excess during the half-year under review.

Our thanks are due to the co-operating observatories for the photographs supplied by them.

Special I G Y data are given in tables IV to IX.

TABLE IV
Eruptive Prominence

Date	Phenomenon	Importance	Time I.S.T.		Position (Heliographic)		Direction of Out-flow	Remarks*
			Begin	End	Latitude	Long. diff. from CIM		
1st January, 1958	EPL	3-	1410	1545	10°S	90°E	r	T, u, Ws. Most of the prominence disappeared by 1515.
9th January, 1958	EPL	3-	0840	0924	53°N	90°E	r	T, Ws. Most of the prominence disappeared by 0924.
9th January, 1958	APR	1	0942	1516	42°N	90°W	r	K.
9th January, 1958	EPL	3	1437	1500	17°S	90°W	S	T, Ws. Most of the prominence disappeared by 1500.
15th January, 1958	APR	1	0935	1010	19°N	90°E	r	L.
1st March, 1958	EPL	1	0955	1100	15°S	90°E	r	S.
5th March, 1958	BSL	1	1045	1050	50°N	90°W	r	.
19th March, 1958	BSL	1	1140	1220	5°N	90°W	r	G.
10th April, 1958	BSL	3	1032	1055	39°N	90°E	r	.
22nd April, 1958	EPL	2	0845	0940	50°N	90°W	r	u, Ws.

*The symbols used are the same as those given in the I G Y Instruction Manual for Solar Activity.

TABLE V
Flare Patrol Hours (Spectroheliograph)

Month and date	Period of watch (IST)	Month and date	Period of watch (IST)
1958 January 1st	0730—0830, 0930—1000, 1040—1110, 1130—1200, 1445—1515, 1545—1600.	22nd .	0820—0920, 0930—1000, 1030—1100, 1130—1200, 1400—1430, 1530—1545
4th . . .	0730—0830, 0930—1000, 1030—1100, 1130—1200	23rd . . .	0735—0830, 0930—1000, 1030—1100, 1130—1200, 1415—1430
5th . . .	0730—0830, 0930—1000, 1030—1100, 1130—1200, 1400—1430, 1530—1600	24th	0735—0830, 0930—1000, 1030—1100, 1130—1200
6th . . .	1125—1145, 1410—1420.	25th . . .	1200—1215, 1405—1440, 1500—1515
7th . . .	0730—0830	26th . . .	0730—0820, 0825—0835
8th . . .	0745—0835, 0930—1000, 1030—1100, 1130—1200, 1405—1430, 1530—1600	27th	0740—0830, 0930—1000; 1145—1255
9th . . .	0800—1000, 1030—1100, 1130—1200, 1400—1500	28th	0740—0815, 0955—1000, 1440—1450
10th . . .	0730—0830, 0930—1000, 1030—1100, 1130—1200, 1410—1430, 1530—1600	29th	0830—0915; 0930—1000; 1030—1100, 1130—1145
11th	0730—0830, 0930—1000, 1030—1100, 1130—1145, 1400—1430; 1530—1600.	30th	0730—0830, 0930—1000, 1030—1100, 1130—1200.
12th	0745—0830; 0930—1000; 1030—1100, 1130—1200; 1405—1430; 1530—1600.	31st	0740—0830, 0930—1000; 1030—1100
13th	0735—0835; 0930—1000, 1030—1100, 1130—1200, 1415—1430	February 2nd	0745—0845; 0930—1000; 1030—1100, 1130—1200, 1400—1430
14th	1130—1200	3rd	0800—0900, 0930—1000; 1030—1100.
15th	0740—0830, 0930—1010, 1030—1110, 1130—1200, 1400—1430	7th	0740—0840, 0930—1000; 1030—1100, 1130—1200
16th	0745—0830, 0930—1000, 1040—1100, 1130—1200	9th	0800—0840; 0945—1010, 1030—1100, 1130—1200; 1415—1425
17th	0730—0830, 0930—1000, 1030—1100, 1130—1200	10th	0730—0830, 0930—1000; 1030—1100, 1130—1200
18th	0730—0830, 0930—1000, 1030—1100, 1130—1200, 1400—1430, 1530—1600	11th	0730—0830; 0930—1000, 1030—1100, 1130—1150
19th	0735—0830, 0930—1000; 1030—1100, 1130—1200, 1405—1430, 1530—1600	12th	0730—0830, 1125—1200
20th	0735—0830; 0935—1000, 1030—1100, 1130—1200, 1410—1430, 1530—1600	13th	0735—0830, 0930—1000, 1030—1100; 1130—1200, 1405—1430, 1530—1600.
21st	0735—0835, 0930—1000, 1030—1100, 1130—1200, 1410—1430	14th	0745—0830; 0930—1000, 1030—1100, 1130—1200, 1400—1430
		15th	0745—0845, 0930—1000, 1030—1100, 1130—1200, 1400—1430, 1530—1600.

TABLE V—contd.

Month and date	Period of watch (IST)	Month and date	Period of watch (IST)
1958 February 16th	0715—0830, 0930—1000, 1030—1100, 1130—1200, 1400—1430, 1530—1600	9th	0745—0830, 0930—1000, 1030—1100, 1130—1200, 1400—1430, 1530—1550
17th	0745—0830, 0930—0955, 1030—1100, 1130—1200, 1400—1415	10th	0730—0830, 0930—1000, 1030—1100, 1130—1200, 1415—1430, 1530—1600
18th	0750—0830, 0930—1000, 1030—1100	11th	0730—0830; 0930—1000, 1030—1100
19th	0900—0915, 0930—1000, 1030—1100, 1130—1200, 1410—1430	12th	0730—0830, 0930—1000, 1030—1100
20th	0715—0830, 0930—1000, 1030—1050	13th	0800—0815, 1000—1020, 1030—1100, 1130—1200.
21st	0715—0830, 0930—1000, 1030—1100, 1130—1200	14th	0730—0830, 0930—1000; 1130—1200; 1415—1420
22nd	0845—1000; 1030—1100, 1130—1200	15th	
23rd	0745—0830, 0930—1000, 1030—1040	16th	0825—0845; 1400—1430.
24th	0745—0830; 0930—1000	17th	0810—0900; 0930—1000, 1030—1100, 1130—1200; 1400—1430, 1530—1600
25th	0815—0900, 1015—1030, 1015—1055; 1400—1415.	18th	0730—0830, 0930—1000, 1030—1100, 1130—1200; 1400—1430, 1530—1600
26th	0742—0830, 0930—1000, 1019—1025, 1120—1150	19th	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430, 1530—1555
27th	0730—0830, 0930—1000; 1030—1100; 1130—1200	20th	0730—0830; 0930—1000; 1035—1100; 1135—1200, 1400—1430, 1530—1600
28th	0730—0830, 0930—1000, 1030—1100, 1130—1200	21st	0730—0830, 0930—1000, 1030—1100; 1130—1200, 1400—1430, 1530—1610.
March 1st	0735—0830, 0920—1100, 1130—1200	22nd	0900—1000; 1030—1100; 1130—1145.
2nd	0745—0830; 0930—1000	23rd	0730—0830; 0930—1000; 1030—1100; 1130—1150.
3rd	0730—0830, 0930—1000; 1030—1100, 1130—1200.	24th	0730—0830; 0925—0940; 0945—0955, 1030—1100; 1130—1145, 1420—1430.
4th	0730—0830; 0930—1000; 1030—1100, 1130—1200	25th	0730—0830, 0930—1000, 1030—1100; 1108—1117.
5th	0733—0830, 0930—1000, 1030—1100; 1130—1200, 1400—1430, 1530—1600	26th	0730—0830; 0930—1000; 1030—1100, 1130—1200
6th	0730—0830, 0930—1000; 1030—1100, 1130—1140	27th	0730—0830; 0930—1000; 1030—1100; 1130—1200.
7th	0730—0830, 0930—1000, 1030—1100.	28th	0730—0830; 0930—1000, 1030—1100, 1140—1150, 1155—1200; 1410—1430.
8th	0730—0830, 0930—1000, 1030—1100; 1130—1200, 1400—1430; 1530—1600.		

TABLE V—*contd.*

Month and date		Period of watch (IST)	Month and date		Period of watch (IST)	
1958	March	29th	0730—0830; 0930—1000, 1030—1100, 1130—1200, 1400—1430, 1530—1545	19th	0642—0730, 0730—0840, 0930—1000.	
		30th	0730—0830, 0930—1000, 1030—1100, 1130—1200	20th	.	
		31st	0730—0830, 0930—1000, 1030—1100, 1130—1140, 1140—1225, 1410—1430, 1535—1545	21st	..	
				22nd	0735—0900; 0925—1000; 1030—1040; 1045—1100	
				23rd	0730—0830, 0930—1000, 1030—1100, 1130—1200, 1410—1420	
	April	1st	0800—0820, 0850—0915, 0930—1000, 1030—1100, 1130—1200	24th	0730—0830; 0930—1000, 1030—1100, 1130—1210; 1400—1430.	
		2nd	0750—0840, 0930—1010, 1030—1100, 1130—1200, 1400—1430	25th	0745—0805, 0930—0936, 0959—1010	
		3rd	0940—1040	26th	0730—0800, 0900—0910; 0940—1000; 1405—1430	
		4th	0920—1000, 1030—1100	27th	0730—0830, 0930—1000, 1030—1045.	
		5th	0730—0830, 0930—1000, 1030—1100; 1130—1200	28th	0745—0830, 0930—1000; 1140—1146.	
		6th	0750—0830	29th	0750—0815; 0825—0845; 1405—1430.	
		7th	0725—0830, 0930—1000, 1030—1100; 1130—1200	30th	0840—0900.	
		8th	0730—0921, 0930—1000, 1030—1100	May	1st	0730—0830, 0930—1000; 1030—1100
		9th	0730—0830, 0930—1000, 1030—1100, 1130—1200, 1405—1430, 1530—1555		2nd	0732—0800; 0935—1000; 1150—1200
		10th	0740—0830, 0930—1000, 1030—1100.		4th	0930—1000
		11th	0945—1015, 1030—1100, 1130—1150		8th	0840—0940, 1030—1100; 1130—1200.
		12th	0730—0840; 0930—1000, 1130—1200		9th	1040—1055, 1205—1220.
		13th	0730—0830; 0930—1000, 1030—1100, 1140—1200		10th	0930—1000; 1020—1040.
		14th	0730—0830, 1030—1100, 1130—1200		12th	1120—1200
		15th	1140—1220; 1400—1430		14th	0755—0840; 1040—1050.
		16th	0730—0830; 0930—1000, 1030—1100, 1130—1145		15th	0740—0830.
		17th	0735—0830; 0930—1000, 1040—1100, 1130—1200		16th	0950—1100; 1130—1200.
		18th	0730—0830; 0930—1000, 1030—1100, 1130—1200.		17th	0800—0835; 1045—1100, 1130—1200.
					18th	0800—0830, 0845—0900; 0930—1000, 1030—1050.
					19th	0730—0830; 0930—1000; 1030—1100, 1130—1200.

TABLE V—concl'd.

Month and date		Period of watch (IST)	Month and date		Period of watch (IST)
1958	May 20th	0735—0810, 0930—1000, 1030—1100, 1100—1120	6th		0800—0825, 0930—1000, 1028—1040, 1144—1150.
	21st	0715—0830, 0930—1000, 1030—1100, 1130—1200	7th		0730—0830; 0930—1000, 1030—1100, 1130—1150.
	22nd	0845—0930, 0930—0950	8th		1406—1418, 1530—1535.
	23rd	0840—0900, 0930—0945, 1145—1200	9th		0730—0830, 0930—1000; 1030—1100; 1130—1200; 1400—1430, 1530—1550.
	24th	0800—0900, 0930—1000, 1030—1100, 1130—1200	10th		0730—0830; 0930—0948, 1030—1100; 1130—1200; 1410—1420.
	25th	0730—0830, 0930—1000	11th		0740—0830, 0930—1000; 1030—1100, 1130—1140.
	26th	0730—0830, 0930—1000, 1051—1100, 1138—1200	12th		0730—0830; 0930—1000; 1030—1100; 1130—1142.
	27th	0730—0810; 0820—0830, 0940—0950, 0954—1000, 1030—1100; 1150—1200.	13th		0845—0950; 1045—1110; 1130—1200.
	28th	0730—0830, 0930—1000, 1030—1100	14th		0730—0830; 0930—0950; 1030—1050; 1050—1100.
	29th	0730—0800, 0930—1000; 1030—1035	16th		0850—0920; 0940—1000; 1030—1050; 1130—1200.
	30th	0730—0830; 0930—1000; 1030—1100, 1130—1200.	18th		1130—1200.
	31st	0730—0830; 0930—1000, 1030—1100; 1137—1148.	19th		0738—0840; 0930—1000; 1030—1100; 1130—1200.
	June 1st	0805—0817; 0840—0900, 0930—0945, 1055—1120.	21st		1430—1440; 1530—1540.
	2nd	0730—0830	22nd		0750—0830; 1030—1050
	3rd	0830—1000, 1030—1100.	26th		0730—0737; 0805—0830; 1055—1105.
	4th	0730—0830, 0930—1000, 1030—1100; 1145—1200	28th		0840—0840; 0850—0900; 0930—0945.
	5th	1100—1145			

TABLE VI
List of Spectroheliograms

Month and date	H-alpha		K-Flocculus		K-Prominence	
	Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958 January 1st	07	31	08	03	08	11
	07	53	08	06	08	15
	09	25	11	25	11	28
	11	18			14	40
					14	49
				15	03	
				15	09	

TABLE VI--*contd.*

Month and date		H-alpha		K-Flocculus		K-Prominence	
		Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958	January 4th	09	29	08	05	08	19
		09	34	08	07	08	25
		11	27	11	34	11	39
		14	32	15	08		
	5th	07	37	08	08	08	13
		07	41	08	10	08	18
		09	08	11	44	11	47
		09	12			11	57
		11	37	14	40	14	44
		14	34				
	6th	14	13	14	21		
	7th	07	42	08	01	07	50
		08	24	08	04	08	10
		09	10				
	8th	08	36	08	50	09	01
		10	02	08	55	09	06
			10	08			
	11	30	11	36	11	39	
	13	46	13	51	13	53	
9th	08	08	08	21	08	31	
	08	14	08	24	08	37	
	11	39	11	34	09	19	
	11	51	13	59	09	23	
					11	29	
					14	04	
					14	40	
10th	07	36	07	47	07	55	
	07	40	07	49	08	01	
	11	34	11	42	11	47	
	14	19	14	21	14	32	
11th	07	35	09	11	09	18	
	09	05	09	13	09	23	
	11	43	11	48	11	51	
	14	12	14	18	14	22	
12th	08	11	08	23	08	29	
	08	15	08	24	08	34	
	11	55	12	01	12	06	
	14	45	14	51	14	57	
13th	07	45	08	00	08	14	
	07	50	08	04	08	24	
	11	07	11	15	11	20	
	14	41	14	28	14	33	
14th	11	31	11	41	11	46	
	11	35	11	43	11	51	
15th	07	32	07	43	07	50	
	07	36	07	46	07	54	
	10	49	11	39	11	45	
	11	51					
	14	13	14	19			
16th	07	49	07	58	08	04	
	07	48	07	59	08	08	
	11	42	11	39	11	51	

TABLE VI—contd.

Month and date	H-alpha		K-Flocculus		K-Prominence	
	Hour (IST)	Min	Hour (IST)	Min	Hour (IST)	Min
1958 January 17th	07	53	08	03	08	10
	07	57	08	06	08	14
	11	13	11	25	11	30
18th	07	36	07	47	07	54
	07	39	07	49	07	57
	11	49	11	36	11	40
	12	20	12	26	14	30
19th	07	32	07	45	07	52
	07	38	07	48	07	58
	11	35	11	11	11	46
	14	14	14	06	14	03
20th	07	43	07	57	08	05
	07	48	07	59	08	09
	11	41	11	45	11	50
	14	04	14	10	14	14
21st	07	46	08	00	08	09
	07	51	08	04	08	14
	11	19	11	28	11	32
	14	02	14	08	14	14
22nd	08	20	08	36	08	42
	08	23	08	38	08	47
	11	33	11	41	11	48
	14	27	14	40	14	36
23rd	07	34	07	47	07	54
	07	39	07	49	10	51
	11	45	11	51	11	54
	14	30	14	35		
24th	07	41	07	53	08	00
	07	45	07	55	08	05
	11	33	11	43	11	46
25th	14	13	14	30	15	10
	14	18	15	20	15	15
26th	07	39	07	54	08	04
	07	44	07	57	08	09
27th	07	32	07	13	07	50
	07	36	07	45	07	55
	11	19	11	24	11	28
	14	11	14	16		
28th	07	43	08	09	09	13
	07	50	09	07	09	18
	11	51				
29th	08	36	09	39	09	48
	09	29	09	42		
30th	07	41	07	53	08	08
	07	46	07	55	08	13
	11	37	11	44	11	49
31st	07	36	07	46	07	53
	07	40	07	48	07	57

TABLE VI—*contd.*

Month and date		II-alpha		K-Flocculus		K-Prominence	
		Hour (IST)	Min	Hour (IST)	Min	Hour (IST)	Min
1958 February	2nd	08	03	08	22	08	31
		08	08	08	24	08	36
	3rd	08	20	08	35	08	44
		08	25	08	37	08	49
		10	09
	4th	08	19	08	34	08	42
		08	23	08	36	08	47
	7th	07	44	07	50	07	01
		09	18	09	11	09	02
		11	41	11	46
	9th	07	36	08	11	08	20
		08	02	08	13	08	25
		11	29	11	49	11	45
		14	40	14	34	14	30
	10th	07	52	08	05	08	14
		07	57	08	07	08	19
		11	41	11	52	11	57
		14	04	14	13	14	20
	11th	07	36	07	47	07	54
		07	40	07	49	07	59
11		39	..	..	..	..
12th	07	53	08	04	08	10	
	07	57	08	06	08	15	
	11	36	11	45	11	51	
13th	07	39	07	51	07	57	
	07	44	07	53	08	05	
	11	41	11	48	11	52	
	14	22	14	16	14	18	
14th	07	41	07	59	08	06	
	07	45	08	02	08	18	
	11	10	11	19	11	25	
	14	10	14	19	14	24	
15th	07	40	07	51	08	08	
	07	44	07	55	08	09	
	11	24	11	45	11	51	
	14	47	14	59	15	03	
16th	07	48	08	01	08	07	
	07	52	08	02	08	13	
	11	39	11	45	11	51	
	14	17	14	25	14	31	
17th	07	37	07	44	07	51	
	08	21	08	09	08	14	
	11	22	11	35	11	42	
	14	03	.	.	.	.
18th	07	40	07	52	07	59	
	07	44	07	54	08	06	
19th	10	10	10	15	10	22	
	10	31	10	17	10	25	
	13	06	13	12	13	16	

TABLE VI—*contd.*

Month and date		H-alpha		K-Flocculus		K-Prominence	
		Hour (IST)	Min	Hour (IST)	Min	Hour (IST)	Min
1958 February	20th	07	37	09	13	07	56
		07	11	09	15	08	00
	21st	07	53	08	03	08	18
		07	57	08	06	08	22
		12	37	08	13	12	49
	22nd	07	52	09	01	09	09
		08	54	09	03	09	13
		11	53	12	00		..
	23rd	07	39	07	51	07	58
		07	43	07	54	08	03
	24th	07	46	08	00	08	08
		07	10	08	00	08	13
	25th	07	35	07	47	08	35
		07	18	07	50	08	40
	26th	07	35	07	15	07	52
		07	37	07	17	08	07
		10	26	08	51	08	56
		11	33	11	38	11	42
	27th	07	38	07	52	08	01
		07	12	07	55	08	09
09		23	11	13	11	50	
..		.		.	11	57	
28th	07	31	07	11	07	48	
	07	37	07	11	07	52	
	11	39	11	44	11	46	
March	1st	07	36	07	15	07	52
		07	10	07	17	07	58
		11	47	11	35	10	26
	2nd	08	35	08	41	11	40
		08	39	08	16	08	51
		01	15	08	36	08	56
		11	21	11		11	47
	3rd	07	31	07	11	07	47
		07	31	07	12	07	50
		11	38	11	30	11	32
	4th	07	36	07	46	07	54
		07	10	07	19	07	58
		11	31	11	11		..
	5th	07	35	07	50	08	04
		07	10	07	52	08	09
		11	31	11	36	11	40
		14	26	14	31	14	38
	6th	07	36	07	16	07	51
		07	39	07	17		..
		08	59	08	05		..

TABLE VI--contd

Month and date		H-alpha		K-Flocculus		K-Prominence		
		Hour (IST)	Min	Hour (IST)	Min	Hour (IST)	Min	
1958 March	7th	07	37	07	46	07	55	
		07	40	07	48	08	01	
		11	27	11	35			
	8th	07	34	07	43	07	51	
		07	37	07	46	07	55	
		08	32	11	18	14	18	
		09	05	11	22			
		11	11	14	21			
		14	34					
	9th	07	38	07	48	07	54	
		07	41	07	50	07	59	
		11	40	11	31	09	19	
		14	33	14	16	11	34	
					14	26		
	10th	07	47	08	00	08	09	
		07	52	08	03	08	15	
		11	20			11	37	
		14	51	14	59	15	04	
	11th	07	36	07	45	07	51	
		07	40	07	47	07	55	
12th	07	35	08	00	08	17		
	07	44	08	03	08	21		
13th	07	59	08	18	10	04		
	08	11	09	59	10	09		
	10	51	11	42	11	46		
	11	36						
14th	07	41	07	52	08	00		
	07	46	07	54	08	05		
	11	29	11	36	11	41		
15th	07	41	07	51				
	07	46						
16th	13	46	13	55	14	01		
	13	49	13	58	14	05		
17th	08	20	08	31	08	39		
	08	24	08	34	08	44		
	11	39	11	47	11	55		
	14	14	14	29	14	34		
18th	07	26	07	32				
	07	32	07	34	07	39		
	11	20	08	42	07	46		
	13	45	11	38	11	42		
			13	38	13	55		
19th	07	41	07	51	07	59		
	07	45	07	54	08	06		
	15	20	11	16	11	50		
			14	50	14	50		
20th	07	41	07	50	07	58		
	07	45	07	53	08	07		

TABLE VI—contd.

Month and date			H-alpha		K-Flocculus		K-Prominence	
			Hour (IST)	Min.	Hour (IST)	Min	Hour (IST)	Min
1958	March	20th	11	41	11	43	11	52
			14	51	14	42	14	39
		21st	07	41	07	54	08	02
	07		48	07	57	08	08	
	11		26	11	31	11	36	
	14		15	14	22	14	26	
	22nd	00	06	00	20	00	35	
		00	11	00	23	00	41	
		00	18	11	35	11	32	
	23rd	07	48	07	57	08	05	
		07	52	08	00	08	10	
		11	42	11	47	11	51	
	24th	07	36	07	44	07	52	
		07	40	07	47			
		08	44			08	54	
		14	21	14	35	14	53	
	25th	07	35	07	44	07	51	
		07	39	07	55	07	56	
		11	18			08	29	
	26th	07	13	07	50	08	02	
		07	47	07	57	08	08	
		11	33	11	38	11	45	
	27th	07	37	07	50	07	56	
		07	42	07	52	08	00	
		11	31	11	36	11	40	
	28th	10	26	11	26	10	08	
		10	31	11	35	10	12	
		14	25	14	31	14	35	
	29th	08	10	08	50	08	35	
		10	14	09	58	11	35	
		11	50	11	45	11	42	
		14	17	14	23	14	27	
	30th	07	39	07	57	08	17	
07		44	08	01	08	10		
11		38	11	19	11	25		
31st	07	36	07	53	07	59		
	08	46	07	55	08	01		
	11	43	11	37	11	31		
	14	37	15	18	15	16		
April	1st	08	57	09	09	09	18	
		09	02	09	11	09	23	
		11	25	11	30	11	35	
		13	45	13	37	13	34	
	2nd	07	59	08	11	08	19	
		08	03	08	14	09	24	
		10	41	11	37	11	34	
		14	26					
		14	25	14	31			

TABLE VI—contd.

Month and date				H-alpha		K-Flocculus		K-Prominence	
				Hour (IST)	Min	Hour (IST)	Min	Hour (IST)	Min
1958	April	3rd	.	.	.	.	.	.	.
			10	01	10	18			
			10	08					
		4th	.	.	.	.	.	.	.
			09	24	09	37	09	44	
			09	28	09	38	09	49	
		5th	.	.	.	.	.	.	.
			07	28	07	36	07	38	
			08	02	11	46	07	45	
			11	41			11	55	
							11	50	
		6th	.	.	.	.	.	.	.
			07	10	07	50	07	57	
			07	44	07	52	08	17	
		7th	.	.	.	.	.	.	.
			07	37	07	52	08	02	
			07	43	07	54	08	06	
			11	47	11	54	11	59	
		8th	.	.	.	.	.	.	.
			07	37	07	49	07	5	
			07	11	07	53	08	02	
			09	00	09	18			
		9th	.	.	.	.	.	.	.
			07	40	07	53	08	00	
			07	45	07	55	08	07	
			11	31	11	37	18	40	
			14	12	14	16	11	26	
					14	22			
		10th	.	.	.	.	.	.	.
			07	35	07	15	07	53	
			07	38	07	48	07	57	
			.		..		10	45	
			11	45			10	41	
		11th	.	.	.	.	.	.	.
			10	10	10	19	10	33	
			11	17	10	59	11	10	
		12th	.	.	.	.	.	.	.
			07	38	07	48	07	51	
			07	42	07	50	07	59	
			08	41	11	49	09	30	
			11	56			11	47	
			14	26	14	37			
		13th	.	.	.	.	.	.	.
			07	32	07	45	07	53	
			07	57	07	47	07	57	
			11	18	11	23	11	21	
		14th	.	.	.	.	.	.	.
			07	36	07	49	07	57	
			07	41	07	52	08	10	
			10	45	.		..		
		15th	.	.	.	.	.	.	.
			11	51	14	06	14	13	
			11	55	14	09			
			14	25					
		16th	.	.	.	.	.	.	.
			07	36	07	51	08	02	
			07	44	07	54	08	07	
			08	49	11	36	11	34	
			11	46	14	57	11	07	
			11	48					
		17th	.	.	.	.	.	.	.
			07	32	07	43	07	50	
			07	37	07	46	07	55	
			11	39	11	44	11	50	

TABLE VI—*contd.*

Month and date		H-alpha		K-Flocculus		K-Prominence	
		Hour (IST)	Min	Hour (IST)	Min	Hour (IST)	Min
1958	April 18th	07	38	07	51	07	57
		07	42	07	54	08	02
		11	19	11	24	11	27
	19th	07	05	09	12		
		07	16				
		09	07				
	20th	09	10				
		09	51				
	21st . . . . .	.	.	..			.
	22nd	07	42	07	55	08	02
		07	49	07	57	08	05
	23rd	07	48	08	07	08	21
		08	00	08	09	08	27
		11	30	11	41	11	46
	24th	07	35	07	15	07	50
		07	40	07	47	07	56
		11	30	11	37	11	41
		14	26	11	21	14	17
	25th	07	55	09	43	09	50
		08	02	09	57	09	53
	26th	07	31	07	46	07	58
		07	41	07	48		
		14	06	14	16	14	12
	27th	07	52	08	01	08	09
		09	06	08	04	08	18
	28th	07	15	07	55	08	00
		09	24	08	11	08	06
	29th . . . . .	.	.	..		.	..
	30th	08	13	08	55	09	04
		08	48	09	00	09	09
May	1st	07	31	07	43	07	50
		07	37	07	15	07	55
	2nd	07	12	09	46	09	55
		07	15	09	50	09	59
	3rd . . . . .	.	.	.		..	.
	4th	08	32	10	01	10	10
		09	51	10	03	10	17
	5th . . . . .	..	.	..	.	..	.
	6th . . . . .	.	.	..		..	..
	7th . . . . .	..	.	..		..	..
	8th	08	45	08	56	09	02
		08	49	08	59	09	14

TABLE VI—contd.

Month and date			H-alpha		K-Flocculus		K-Prominence	
			Hour (IST)	Min	Hour (IST)	Min.	Hour (IST)	Min
1958	May	8th	10 11	30 16			10 11	11 26
		9th	10 12	50 31	12	38	12	11
		10th . . . . .	.	.	.	.	.	.
		11th . . . . .	.	.	.	.	.	.
		12th	11 11	41 16	11 11	57 54	11 12	57 01
		13th	11 11	12 17	.	.	.	.
		14th	07 08	46 59	07 08	57 07	08 08	09 13
		15th	07 08	54 59	08 08	11 13	08 08	22 28
		16th	10 10	11 14	10 10	21 23	10 10	37 15
		17th	07 08	59 47	08 08	28 30	08 08	34 34 42
		18th	08 08	03 07	08 08	13 15	08 08	18 25
		19th	08 09 11	44 12 18	08 09 11	53 18 20	08 09 11	58 30 37
		20th	07 08 11	46 13 59	07 08 12	52 04 04	07 08 12	56 08 09
		21st	08 08 11	42 18 33	08 08 11	54 50 37	09 09 09 11	04 10 23 44
		22nd	08 08	28 56	08 08	34 36	08 08	13 47
		23rd	08 09 11	54 00 56	09 09	07 10	09 09 12	20 31 08
		24th	08 08 11	03 28 36	08 08 11	09 21 40	08 08 11	13 18 58
		25th	07 07 08	34 38 51	07 07	44 46	07 07	51 55
		26th	07 07 11	54 58 13	08 08 11	23 25 16	08 08 11	30 34 19

TABLE VI—*contd*

Month and date		H-alpha		K-Flocculus		K-Prominence		
		Hour (IST)	Min	Hour (IST)	Min	Hour (IST)	Min	
1958								
May	27th	07	32	07	11	07	47	
		07	37	07	13	07	56	
	28th	07	35	07	46	07	52	
		07	39	07	18	07	56	
		09	22					
29th		07	29	07	37	07	45	
		07	32	07	41	07	50	
30th		07	35	07	45	07	53	
		07	39	07	48	07	57	
		09	19	11	35	11	41	
31st		07	32	07	40	07	46	
		07	35	07	42	07	53	
		11	35	11	13	11	46	
June	1st	08	11	08	32	08	38	
		08	16	08	34	08	38	
		08	5	11	12	11	39	
		11	17					
	2nd		07	33	07	45	07	52
			07	38	07	47	07	59
	3rd		08	37	08	46	08	52
			08	39	08	48	08	56
			10	59	11	13	11	10
	4th		07	40	07	52	07	59
			07	41	07	55	08	03
	5th		11	02	11	06	11	13
			11	26	11	08	11	20
	6th		08	53	09	00	09	09
			09	23	09	03	09	14
7th		08	19	08	31	08	41	
		08	26	08	36	08	46	
		11	13	11	20	11	25	
8th		13	50	14	00	14	05	
		13	53	14	01	14	08	
9th		07	35	07	16	07	54	
		07	38	07	48	08	00	
		11	12	11	17	11	22	
		14	18	14	25	14	29	
10th		07	46	07	47	07	44	
		07	41	07	49	07	50	
		11	35	11	42	11	46	
11th		07	44	07	52	07	56	
		08	09	08	04	08	01	
		11	39					

TABLE VI—*concl.*

Month and date		H-alpha		K-Flocculus		K-Prominence	
		Hour (IST)	Min	Hour (IST)	Min	Hour (IST)	Min
1958							
June	12th	08	02	08	08	08	13
		08	39	08	29	08	34
		11	23	11	53	11	34
	13th	09	16	09	33	09	39
		09	21	09	35	09	43
	14th	07	35	07	45	07	53
		07	40	07	49	07	57
	15th						
	16th	08	43	09	11	09	18
		09	01	09	13		
		11	07	11	18	11	15
	17th						
	18th	11	31	11	40	12	02
		11	35	11	45	12	07
	19th	07	39	07	50		
		07	44	07	52		
		07	59			08	15
		08	01			08	20
		08	03			11	52
		08	05				
		09	12				
		11	39				
	20th						
	21st	14	18	14	24	14	29
		14	39				
	22nd	07	58	08	06	08	12
		08	01	08	08	08	16
		14	52				
		14	56				
	23rd						
	24th						
	25th						
	26th	07	35	08	08	08	14
		08	02	08	10	08	21
	27th						
	28th	08	25	08	36	08	44
		08	30	08	41	09	01
	29th						
	30th	08	55				

TABLE VII

List of Photographs

Month and Date*	Time of Picture (I S T)	Quality of image	Remarks	Month and Date*	Time of Picture (I S T)	Quality of image	Remarks
January, 1958—	II M			January, 1958—	II M		
1st	07 47 10 52 14 40	Fair Good Fair	F H H	1st	08 14 11 16	Good Fair	F H
4th	07 51 10 30	Fair Fair	F H	22nd	08 35 10 44 14 40	Poor Poor Poor	F F F
5th . . .	09 33 14 18	Fair Fair	F H	23rd	08 02 10 58	Fair Fair	F H
6th . . .	11 40	Fair	F	24th	07 56 10 32 14 22	Fair Fair Poor	F H H
7th . . .	07 50	Poor	F	25th	12 05 15 17	Fair Poor	F H
8th . . .	08 55 11 13 14 25	Fair Poor Poor	F H H	26th	08 02	Poor	F
9th . . .	08 22 08 41 14 15	Good Fair Fair	F H H	27th	07 46 11 05	Good Good	F H
10th . . .	07 18 10 45 14 35	Good Fair Good	F H H	28th	07 43 10 48	Good Poor	F H
11th . . .	07 48 10 59 14 25	Excellent Excellent Fair	F H H	29th	09 16	Good	F
12th . . .	08 04 10 55 14 18	Excellent Fair Fair	F H H	30th	08 05 10 45	Poor Good	F H
13th . . .	08 15 11 07 14 37	Good Fair Good	F H H	31st	07 50 10 45	Excellent Poor	F H
14th . . .	11 33	Fair	F	February, 1958—			
15th . . .	07 47 11 05 14 22	Good Good Fair	F H H	2nd	08 10 11 02	Good Good	F H
16th . . .	07 48	Excellent	F	3rd	08 30 11 22	Excellent Fair	F H
17th . . .	09 02 10 25	Excellent Good	F H	4th	09 20	Fair	F
18th . . .	07 49 10 55 14 35	Fair Good Fair	F F H	7th	08 12 08 18 11 15 14 35	Good Good Good Poor	F F H H
19th . . .	07 45 11 02 14 35	Good Fair Fair	F H H	9th	07 50 10 37	Good Good	F H
20th	07 50 11 25	Fair Good	F H	10th	08 10 10 47 11 35	Good Good Fair	F H F
				11th	07 45 08 10	Good Good	F F

TABLE VII—contd

Month and Date*	Time of Picture (I S T)	Quality of image	Remarks	Month and Date*	Time of Picture (I S T)	Quality of image	Remarks
February, 1958--	H M			March, 1958--	H M		
12th	07 16 10 36	Good Good	F H	5th	07 50 10 35 14 35	Excellent Good Good	F H H
13th	07 14 10 50 14 22	Fair Poor Fair	F H H	6th	07 41 10 33	Excellent Good	F H
14th	07 19 08 55	Poor Fair	F F	7th	07 50 10 58	Excellent Fair	F H
15th	07 55 10 55 14 35	Poor Fair Poor	F H H	8th	07 45 11 10 14 20	Excellent Poor Poor	F H H
16th	07 18 10 34	Excellent Excellent	F H	9th	07 10 10 24 14 15	Excellent Fair Poor	F H H
17th	08 25 10 50 14 12	Good Fair Poor	F H H	10th	08 03 10 26 14 36	Good Poor Poor	F H H
18th	07 55	Fair	F	11th	07 40 10 42	Good Fair	F H
19th	10 30	Excellent	F	12th	08 40	Good	F
20th	07 48	Excellent	F	13th	10 00	Good	F
21st	08 05 10 45	Excellent Fair	F H	14th	07 36 10 11 14 20	Excellent Good Poor	F H H
22nd	08 54 10 45 10 54	Good Poor Fair	F H H	15th	07 50	Excellent	F
23rd	07 48	Good	F	16th	14 05	Good	F
24th	08 15	Good	F	17th	07 46 10 48 14 13	Good Excellent Fair	F H H
25th	08 26	Good	F	18th	07 45 10 20 14 10	Good Good Poor	F H H
26th	07 39 10 30	Excellent Poor	F H	19th	08 28 10 58 14 45	Good Poor Poor	F H H
27th	07 50 10 50	Excellent Poor	F H	20th	08 02 10 50 14 22	Excellent Good Fair	F H H
28th	07 56 14 25	Excellent Poor	F H	21st	07 41 11 24 14 25	Excellent Fair Good	F H H
March, 1958--				22nd	07 44 11 30	Excellent Poor	F H
1st	07 15 10 42	Fair Fair	F H	23rd	07 48 10 45	Good Poor	F F
2nd	08 05 10 15	Fair Fair	F H				
3rd	07 55 11 40	Fair Poor	F H				
4th	07 44 11 20	Excellent Fair	F H				

TABLE VII—contd

Month and Date*	Time of Picture (I S T)	Quality of image	Remarks	Month and Date*	Time of Picture (I S T)	Quality of image	Remarks
March, 1958—	H. M.			April, 1958—	H. M.		
24th	07 45 10 52 14 25	Excellent Fair Good	F H H	12th	08 04 10 59	Good Poor	F H
25th	07 39 10 29 14 25	Excellent Fair Fair	F H H	13th	07 54 10 42	Good Good	F H
26th	07 44 11 46	Excellent Good	F H	14th	07 35 10 27	Fair Fair	F H
27th	07 59 11 05	Excellent Good	F H	15th	11 50 11 25	Fair Fair	F F
28th	09 05 11 02 14 32	Excellent Good Fair	F F H	16th	08 08 10 32	Fair Poor	F H
29th	08 30 15 15	Excellent Good	F H	17th	08 05 10 50	Good Fair	F H
30th	08 05 10 55	Excellent Fair	F H	18th	07 36 10 40	Good Good	F H
31st	08 04 14 30	Excellent Good	F H	19th	06 33 06 53 07 08 07 13 07 43 08 12 08 30 08 31 08 51	Good Good Good Good Good Good Good Good Good	F F F F F F F F F
April, 1958—							Photographs of partial eclipse of Sun
1st	08 55 10 57	Good Fair	F H	22nd	07 45 10 31	Good Good	F H
2nd	07 49 10 54	Excellent Good	F H	23rd	07 26 10 48	Good Fair	F H
3rd	10 00	Fair	F	24th	07 51 10 37 14 31	Good Fair Fair	F H H
4th	09 55	Good	F	25th	07 59	Good	F
5th	07 50	Good	F	26th	07 38 14 37	Good Good	F H
6th	08 02 10 58	Excellent Good	F H	27th	08 02 16 12	Good Good	F H
7th	07 50 10 42	Excellent Good	F H	28th	08 05 11 09	Good Fair	F H
8th	08 40 11 40	Good Fair	F H	29th	08 06	Good	F
9th	08 05 10 40 14 17	Excellent Fair Fair	F H H	30th	08 45	Good	F
10th	07 48 10 27	Good Good	F H	May, 1958—			
11th	09 40 11 02	Fair Fair	F H	1st	07 42	Good	F
				2nd	08 52 09 16	Good Good	F F

TABLE VII—concl'd.

Month and Date*	Time of Picture (I S T)		Quality of image	Remarks	Month and Date*	Time of Picture (I S T)		Quality of image	Remarks
	H	M				H	M		
May, 1958—					June, 1958—				
4th	09	20	Good	F	1st	08 42 11 06	Good Fair	F H	
8th	08 54 10 37		Good Good	F H	2nd	08 08 10 56	Good Fair	F H	
10th	12 10		Fair	F	3rd	08 45 10 55	Good Fair	F H	
12th	11 20		Fair	F	4th	07 53 10 45	Good Fair	F H	
14th	07 50 10 38		Fair Good	F H	5th	11 20 10 35	Good Good	F F	
15th	08 05 11 18		Fair Fair	F H	6th	09 35	Good	F	
16th	10 13		Fair	F	7th	08 11 10 47 10 50	Excellent Good Good	F H H	
17th	08 22 10 45		Fair Fair	F H	8th	13 50	Good	F	
18th	08 14		Good	F	9th	07 53 11 18 14 10	Excellent Good Good	F H H	
19th	08 20 11 00		Good Poor	F H	10th	07 51 10 53 14 14	Excellent Good Poor	F H H	
20th	07 58 10 40		Good Fair	F H	11th	08 26 10 50	Good Good	F H	
21st	08 00 10 40		Good Fair	F H	12th	08 32 09 35	Good Good	F F	
22nd	08 12 11 52		Fair Fair	F H	13th	09 13 11 54	Good Poor	F H	
23rd	08 56 11 00		Good Fair	F H	14th	07 52	Good	F	
24th	08 28 10 42		Good Good	F H	16th	09 05	Good	F	
25th	07 46		Good	F	18th	11 34	Good	F	
26th	07 57 11 05		Fair Fair	F H	19th	08 27 10 40	Good Good	F F	
27th	07 48 10 41		Good Fair	F H	21st	14 40	Good	F	
28th	07 54 10 51		Good Fair	F H	22nd	08 18	Good	F	
29th	07 39		Good	F	26th	08 16	Good	F	
30th	07 48 10 32		Good Fair	F H	28th	08 30	Good	F	
31st	08 00 10 35		Good Fair	F H					

F—Full disc Photograph

H—Part of the disc containing spot zones

*Missing dates correspond to days when no photographs could be taken due to bad weather.

TABLE VIII

Sunspot Relative Numbers

Month & Date*	Time (IS T)	Number g of groups	Number f of spots	Image quality classified in 5 grades
January, 1958—	H M			
1st	07 47	15	100	F
4th	07 51	12	118	F
5th	09 33	11	96	F
6th	11 40	10	68	F
7th	07 50	12	97	P
8th	08 55	10	96	F
9th	08 22	10	103	G
10th	07 48	12	125	G
11th	07 48	16	172	E
12th	08 04	17	240	E
13th	08 15	11	135	G
14th	11 33	12	106	F
15th	07 47	14	187	G
16th	07 48	12	180	E
17th	09 02	15	157	E
18th	07 49	14	84	F
19th	07 45	12	93	G
20th	07 50	12	113	F
21st	08 14	13	101	G
22nd	08 35	11	65	P
23rd	08 02	11	65	F
24th	07 56	10	92	F
25th	12 05	11	74	F
26th	08 02	12	89	P
27th	07 46	12	80	G
28th	07 43	12	87	G
29th	09 16	8	90	G
30th	08 05	8	54	P
31st	07 50	10	61	E
February 2nd	08 10	8	44	G
3rd	08 30	8	53	E

TABLE VIII—*contd.*

Month & Date*		Time (I S T)	Number g of groups	Number f of Spots	Image quality classified in 5 grades
February, 1958—		H M			
4 th	. . . . .	09 20	7	65	F
7 th	. . . . .	08 12	6	124	G
9 th	. . . . .	07 50	7	140	G
10 th	. . . . .	08 10	5	85	G
11 th	. . . . .	07 45	7	87	G
12 th	. . . . .	07 46	6	72	G
13 th	. . . . .	07 44	7	65	F
14 th	. . . . .	07 49	8	64	P
15 th	. . . . .	07 55	9	38	P
16 th	. . . . .	07 48	9	41	E
17 th	. . . . .	08 25	10	36	G
18 th	. . . . .	07 55	10	39	F
19 th	. . . . .	10 30	8	33	E
20 th	. . . . .	07 48	9	37	E
21 st	. . . . .	08 05	9	70	E
22 nd	. . . . .	08 54	8	70	G
23 rd	. . . . .	07 48	9	80	G
24 th	. . . . .	08 15	7	76	G
25 th	. . . . .	08 26	9	60	G
26 th	. . . . .	07 39	9	72	E
27 th	. . . . .	07 50	8	72	E
28 th	. . . . .	07 56	6	55	E
March 1 st	. . . . .	07 45	5	53	F
2 nd	. . . . .	08 05	4	53	F
3 rd	. . . . .	07 55	6	74	F
4 th	. . . . .	07 44	7	101	E
5 th	. . . . .	07 50	7	119	E
6 th	. . . . .	07 41	6	109	E
7 th	. . . . .	07 50	8	145	E
8 th	. . . . .	07 45	7	97	E
9 th	. . . . .	07 40	7	150	E
10 th	. . . . .	08 03	8	129	G

TABLE VIII—*contd*

Month & Date*		Time (I S T)	Number g of groups	Number l of Spots	Image quality classified in 5 grades
March, 1958—		H M			
	11th	07 40	8	105	G
	12th	08 40	6	94	G
	13th	10 00	7	118	G
	14th	07 36	6	125	E
	15th	07 50	7	82	E
	16th	14 05	9	105	G
	17th	07 46	9	80	G
	18th	07 45	10	95	G
	19th	08 28	9	89	G
	20th	08 02	8	74	E
	21st	07 41	7	73	E
	22nd	07 44	7	104	E
	23rd	07 48	9	137	G
	24th	07 45	12	96	E
	25th	07 39	10	112	E
	26th	07 44	9	132	E
	27th	07 59	9	239	E
	28th	09 05	10	168	E
	29th	08 30	10	222	E
	30th	08 05	12	220	E
	31st	08 04	13	175	E
April	1st	08 55	14	185	G
	2nd	07 49	13	226	E
	3rd	10 00	15	142	F
	4th	09 55	15	158	G
	5th	07 50	15	179	G
	6th	08 02	16	177	E
	7th	07 50	16	157	E
	8th	08 40	15	152	G
	9th	08 05	14	134	E
	10th	07 48	11	140	G
	11th	09 40	11	54	F

TABLE VIII—*contd.*

Month & Date*		Time (I S T)	Number g of groups	Number f of Spots	Image quality classified in 5 grades
		H M			
April, 1958—	12th	08 04	7	77	G
	13th	07 54	8	49	G
	14th	07 35	7	38	F
	15th	11 50	8	26	F
	16th	08 08	7	58	F
	17th	08 05	10	64	G
	18th	07 36	9	86	G
	19th	08 51	11	86	G
	22nd	07 45	10	102	G
	23rd	07 26	12	109	G
	24th	07 51	13	122	G
	25th	07 59	11	105	G
	26th	07 38	9	69	G
	27th	08 02	12	57	G
	28th	08 05	11	80	G
	29th	08 06	9	98	G
	30th	08 45	9	69	G
May	1st	07 42	11	112	G
	2nd	08 52	13	129	G
	4th	09 20	14	133	G
	8th	08 54	10	52	G
	10th	12 10	10	66	F
	12th	11 20	8	25	F
	14th	07 50	7	56	F
	15th	08 05	6	30	F
	16th	10 13	6	37	F
	17th	08 22	6	52	F
	18th	08 14	5	39	G
	19th	08 20	9	68	G
	20th	07 58	9	54	G
	21st	08 00	10	71	G
	22nd	08 12	11	54	F

TABLE VIII—concl'd

Month & Date*		Time (I S T)	Number g of groups	Number f of Spots	Image quality classified in 5 grades
		H M			
May 1958—	23rd	08 56	12	82	G
	24th	08 28	13	58	G
	25th	07 46	12	51	G
	26th	07 57	11	68	F
	27th	07 48	12	41	G
	28th	07 54	12	40	G
	29th	07 39	14	56	G
	30th	07 48	13	103	G
	31st	08 00	11	68	G
June	1st	08 42	11	58	G
	2nd	08 08	11	57	G
	3rd	08 45	11	75	G
	4th	07 53	13	86	G
	5th	11 20	14	89	G
	6th	09 35	12	77	G
	7th	08 11	11	121	E
	8th	13 50	9	129	G
	9th	07 53	9	149	E
	10th	07 51	11	147	E
	11th	08 26	11	130	G
	12th	08 32	11	121	G
	13th	09 13	11	71	G
	14th	07 52	8	119	G
	16th	09 05	7	34	G
	18th	11 34	6	26	G
	19th	08 27	6	52	G
	21st	14 40	7	51	G
	22nd	08 18	8	57	G
	26th	08 16	11	153	G
	28th	08 30	8	123	G

*Missing dates correspond to days when no photographs could be taken due to unfavourable weather

TABLE IX

Positions and classifications of sunspot groups

Year 1958 Date	Time I.S.T	Image quality	(Heliographic latitude) in degrees	(Heliographic longitude) in degrees	Type	number of single spots			
1	2	3	4	5	6	7			
January 1	H M 07 47	3	+25	238	J	04			
			-20	227	B	03			
			+13	218	J	05			
			-03	209	A	01			
			-24	183	D	23			
			-10	178	H	04			
			+17	169	H	04			
			-13	159	B	04			
			+18	123	D	14			
			-18	113	B	14			
			-06	110	A	03			
			+23	157	A	06			
			+10	79	C	09			
			+30	90	C	03			
			-17	76	B	03			
January 2 .	07 51	3	-24	182	D	20			
			-09	178	J	01			
			+17	163	J	01			
			-13	154	A	08			
			+19	122	E	28			
			-23	112	E	14			
			+04	91	J	02			
			+27	90	A	08			
			-18	74	A	06			
			+12	74	E	27			
			-18	42	A	02			
			-31	35	A	01			
			January 5	07 54	3	-23	183	H	03
						-11	175	J	02
						+16	171	J	01
+17	120	D				11			
-23	110	C				10			
+05	91	C				08			
+31	87	B				02			
-18	88	C				05			
+12	71	E				46			
-15	28	D				15			
-29	35	C				03			
January 6	11 40	3				+17	174	J	02
						+17	122	H	04
						-23	110	C	06
						+05	90	B	03
			+33	87	B	03			
			-18	76	C	02			
			+12	74	D	25			
			-19	36	D	04			
			-30	37	C	03			
			-13	23	D	16			
			January 7	07 50	4	+18	127	H	04
						-22	112	B	06
						+05	88	B	04
						+34	87	A	02

TABLE IX—contd

1	2	3	4	5	6	7
	H M					
			-17	79	B	08
			+13	76	E	41
			-18	37	D	08
			-30	36	B	07
			-12	24	D	14
			+14	45	A	01
			+26	07	J	01
			-40	64	A	01
January 8	08 55	3	+15	123	J	03
			-23	107	B	02
			+04	92	B	02
			-18	75	J	02
			+13	76	E	34
			-39	60	C	07
			-29	35	C	11
			-18	35	C	13
			-13	20	E	21
			+24	08	J	01
January 9	08 22	2	+03	94	A	01
			-19	77	A	01
			+13	77	E	19
			-17	36	G	16
			-29	34	H	11
			-14	17	E	33
			+25	08	J	02
			-39	56	G	09
			+21	346	B	10
			-19	326	A	01
January 10	07 48	2	+03	95	A	01
			-18	75	A	01
			+17	76	E	21
			-18	33	E	17
			-28	33	E	14
			-14	18	F	37
			+25	04	H	03
			-38	55	D	15
			+26	342	E	12
			-23	331	C	01
			-20	355	B	02
			-13	345	A	01
January 11	07 48	1	-20	75	B	02
			+13	76	G	08
			-17	39	D	16
			-28	36	D	19
			-14	21	E	61
			+24	08	H	02
			-39	55	C	09
			+26	342	E	21
			-23	332	C	02
			-22	355	B	08
			-13	345	A	01
			+33	50	A	02
			+23	47	A	01
			+13	26	A	02
			-08	320	C	06
			+12	305	C	02
January 12	08 04	1	-13	74	B	06
			+10	75	J	09
			-18	37	C	18
			-29	34	C	17

TABLE IX—contd.

1	2	3	4	5	6	7
	H M					
			-13 +05 -39 +25 -23 -22 -13 +33 +23 +12 -07 +12 +15	20 04 53 344 331 354 344 46 46 21 316 304 326	E H B F D C A A A A E E A	53 04 09 46 07 19 04 03 06 03 19 13 04
January 13	08 15	2	+23 -17 -29 -13 +25 -21 +23 -24 +14 -08 +13	47 37 36 21 03 352 344 329 323 311 299	B J H F J A E C A E F	02 03 09 44 02 03 31 02 05 22 12
January 14	11 33	3	-18 -29 -15 +24 +23 -22 -24 -09 +13 +12 -16 +23	35 32 18 05 341 351 330 315 300 327 331 276	B J E H D A J D E B A A	02 02 42 03 20 01 02 14 16 02 01 01
January 15	07 47	2	-19 -30 -14 +23 +25 -24 -24 -09 +12 +14 -15 +23 +21 -14	35 35 21 07 342 328 349 316 302 327 331 283 261 261	A H C H E J B D F B A A C B	01 04 54 03 36 03 09 27 37 02 02 01 04 04
January 16	07 48	1	-28 -15 +23 +24 -25 -22 -10 +12 +13 +22 +19 +13	44 19 05 342 331 351 316 302 327 283 263 264	A E H F H B E F A A C B	03 33 03 38 03 12 32 41 04 02 07 02

TABLE IX—contd.

1	2	3	4	5	6	7
January 17	H M 08 02	1	-13 +23 -23 +24 -24 +12 -09 +13 +21 -16 +21 +05 -17 -12 -20	15 04 351 328 329 321 311 296 278 260 238 240 240 231 225	E J D D J A E F A A E A A A A	20 01 14 19 02 07 31 39 02 01 15 01 01 03 01
January 18	07 49	3	-17 +24 +27 -24 -25 -10 +13 +20 +25 -15 +04 -17 -13 -20	30 18 341 02 341 323 313 272 245 273 257 254 242 234	J J H D J D F G D A A A A A	01 02 04 06 02 15 27 04 14 01 01 02 03 02
January 19	07 45	2	+27 -24 -22 -09 +13 +19 +03 -18 -13 -22 +25 +30	328 328 354 310 306 259 242 242 232 223 229 244	J J J D F H A A B C E B	03 03 04 15 24 08 03 02 05 03 20 03
January 20	07 50	3	+29 -22 -08 +13 +21 +03 -13 -22 +25 +33 -24 -12	330 330 311 300 259 243 231 223 229 249 270 261	J J C F H A A B E A A A	04 03 13 20 05 03 08 02 36 13 03 03
January 21	08 14	2	+30 -22 -08 -25 +23 +12 +33 +23	328 328 323 269 258 302 252 236	J J J B H F B E	01 01 05 10 08 12 11 35

TABLE IX—contd.

1	2	3	4	5	6	7
	H M.					
			-12	231	B	10
			-20	223	H	01
			+28	215	H	06
			-09	182	H	01
			-18	185	J	03
January 22 .	08 35	4	+12	302	F	04
			+22	257	J	01
			+23	237	D	26
			+33	253	C	09
			-24	267	E	11
			-19	222	J	01
			-12	229	B	04
			+28	210	C	02
			-08	181	A	01
			-18	188	C	05
			+18	169	A	01
January 23 . . .	08 02	3	+11	303	J	02
			+20	255	J	01
			+23	237	C	20
			+33	250	B	05
			-25	269	D	14
			-12	228	A	02
			-22	221	J	01
			+27	211	J	07
			-10	182	J	01
			-17	189	J	09
			+17	161	J	03
January 24	07 56	3	+22	256	J	01
			+25	236	C	30
			+37	246	B	05
			-23	269	D	23
			-10	227	A	02
			-20	223	A	01
			+28	215	B	06
			-07	184	J	01
			-16	189	D	21
			+19	164	B	02
January 25	12 05	3	-25	271	E	12
			+22	258	H	04
			+25	238	G	03
			+29	212	H	02
			-19	222	J	01
			-18	189	D	36
			-08	182	H	02
			+17	163	H	02
			+21	133	J	02
			-28	169	B	03
			-09	156	B	07
January 26	08 02	4	+23	253	E	07
			-19	223	A	02
			+27	228	A	01
			-19	268	G	05
			+28	211	A	02
			-08	183	A	01
			-18	187	F	41
			+18	165	H	02
			+22	133	C	11
			-08	162	E	14
			-27	170	H	02
			+19	118	A	01

TABLE IX—contd.

1	2	3	4	5	6	7
	H M					
January 27	07 46	2	+23 +27 +28 -08 -18 +18 +22 -10 -26 +19 -12 -26	251 223 209 181 188 187 216 156 163 160 172 99	J A A A E C D D B J A A	05 01 02 02 21 02 14 19 06 02 03 03
January 28	07 43	2	+28 -30 -07 -17 +19 +22 -09 -27 +20 -11 -26 -18	224 219 184 189 163 130 158 104 111 175 99 221	A B A E C D D B C A A A	01 02 02 39 06 24 25 05 04 02 04 03
January 29	09 16	2	+25 -18 -09 -10 +18 +22 +19 -27	212 188 183 159 163 132 111 92	A E J D J E H B	01 18 01 33 02 25 04 06
January 30	09 16	4	-10 -21 +16 +21 -12 +18 -28 +22	181 186 162 132 158 111 95 152	J G C E D H B C	01 08 02 13 15 06 04 05
January 31	08 05	1	-08 -18 +17 +22 -10 +18 -28 +25 -05 +28	181 184 159 131 157 109 95 151 108 41	A C A D D H C B B A	01 03 01 10 20 05 08 03 08 02
February 2	08 10	2	-12 -32 +20 +17 -06 +25 -11 -14	159 152 132 113 110 49 37 13	B A D D E J E G	05 01 03 04 16 03 11 01

TABLE IX—contd.

1	2	3	4	5	6	7
	H M					
February 3	08 30	1	+22 +19 -07 +26 -13 -16 -32 +08	125 110 109 45 37 09 151 63	J C E C E G A D	01 02 17 02 15 07 01 08
February 4	09 20	3	+22 +19 -07 +24 -14 -16 +08	125 110 109 45 48 09 63	J C H B E E C	03 04 06 04 23 19 06
February 7	08 12	2	+24 -12 -16 +09 +20 +26	49 42 04 69 16 350	D E E B C B	02 42 64 04 03 09
February 9	07 50	2	-12 -16 +08 +18 +24 +16 -19	50 05 66 19 349 311 264	E F B B B E C	42 69 02 08 05 12 02
February 10	08 10	2	-12 +18 -18 +24 +13	46 17 05 346 307	E B E D G	19 01 53 08 04
February 11	07 45	2	-14 -18 +20 +24 +13 +09 -24	46 04 20 346 318 324 262	H E B D G C A	05 43 02 08 14 14 01
February 12	07 46	2	-18 +26 +12 +08 -23 +23	08 352 308 320 263 253	E J E J A J	33 10 18 09 01 01
February 13	07 44	3	-18 +25 +12 +08 -24 +23 +08	08 352 307 326 263 252 235	E J F B A J A	20 02 07 09 02 01 04
February 14	07 49	4	-20 +24 +13 +08	05 355 311 326	E J F B	13 02 27 10

TABLE IX—contd.

1	2	3	4	5	6	7
	H M					
			-25	262	A	02
			+24	253	J	02
			+08	241	D	06
			+14	274	A	02
February 15	07 55	4	-20	01	D	03
			+23	356	J	01
			+12	311	F	15
			+09	327	D	05
			+23	251	A	01
			+06	240	D	04
			+13	277	B	05
			-14	213	A	02
			+19	214	B	02
February 16	07 48	1	-18	351	A	03
			+10	304	E	09
			+08	327	A	06
			+22	250	J	01
			+05	241	J	04
			+12	274	A	05
			-16	198	A	06
			+19	213	A	04
			+21	306	A	03
February 17	08 25	2	+09	304	E	09
			+07	328	A	03
			+22	249	J	01
			+04	243	J	04
			+12	274	A	03
			-17	197	G	06
			+18	211	A	04
			+19	302	A	01
			-25	179	J	01
			-15	244	B	04
February 18	07 55	3	+12	311	E	08
			+23	250	J	01
			+05	240	J	04
			+13	277	A	03
			-15	202	C	08
			+21	210	A	03
			+19	299	A	02
			-24	182	J	02
			-13	245	B	04
			-13	174	B	04
February 19	10 30	1	+09	305	H	08
			+22	245	J	01
			+08	243	H	05
			-15	201	E	06
			+22	208	B	03
			-25	177	J	01
			-15	244	H	04
			-13	169	D	05
February 20	07 48	1	+23	251	J	01
			+07	245	B	06
			-15	200	E	11
			-24	177	J	01
			-15	251	A	04
			-12	168	D	08
			+14	190	A	01
			+21	196	A	01
			-04	214	A	04

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H M					
February 21 .	08 05	1	+22 +07 -15 -24 -16 -13 +12 -04 -09	246 243 196 177 249 168 188 217 82	J B E J A C B B A	02 04 26 01 01 13 08 14 01
February 22 .	08 54	2	+21 +06 -16 -24 -13 +13 -06 -09	247 243 198 177 165 188 216 184	J B E J D C D A	07 02 27 01 14 04 14 01
February 23 .	07 48	2	+23 +03 -18 -25 -12 +13 -04 -10 +31	253 253 186 175 166 188 214 183 108	J A E J D A B A J	02 01 36 01 26 03 09 01 01
February 24 .	08 15	2	-18 -25 -12 -05 -08 +30 -15	196 176 168 214 183 109 148	E H D B A G B	29 09 17 04 01 08 08
February 25	08 26	2	-18 -25 -11 -05 -09 +31 -14 -24 -33	196 179 170 217 184 110 148 84 143	F D D C A C D B C	18 04 04 04 01 04 19 03 03
February 26	07 39	1	-20 -27 -12 -08 -10 +30 -15 -23 -35	192 174 167 219 181 107 131 79 138	F J J B A E G B B	20 07 03 03 03 11 17 04 04
February 27	07 50	1	-20 -25 -12 +30 -15 -24 -35 +05	192 176 172 108 149 80 140 74	E J J D E B B A	19 05 03 14 21 04 04 02

TABLE IX—contd

1	2	3	4	5	6	7
	II M					
February 28 .	07 56	1	-18 -25 +31 -11 -34 -16	187 174 105 149 139 39	H B C F J B	05 03 17 27 01 02
March 1 . . .	07 15	3	-11 +31 -16 -15 -23	174 104 119 19 96	A B E F A	02 16 18 10 07
March 2 .	08 05	3	+31 -16 -16 -23	106 119 9 96	B D E C	12 14 18 09
March 3	07 55	3	+30 -15 -15 -23 +30 +23	108 118 19 96 26 08	A B F E D B	01 05 28 25 12 03
March 4	07 14	1	-17 -21 +23 +20 +33 -18 -15	17 96 33 01 20 116 97	F E B B B B B	39 23 11 08 10 04 06
March 5	07 50	1	-16 -21 +11 +22 +33 -11 -12	16 97 33 01 19 117 95	E D D B D A H	55 13 18 08 11 02 12
March 6	07 11	1	-18 -23 +20 +20 +32 -13	16 95 32 01 18 90	E B E B E G	67 05 14 06 11 06
March 7	07 50	1	-17 -23 +25 +20 +33 -13 -18 +12	16 95 32 01 19 90 357 305	F H E B E G A J	73 03 23 06 20 10 04 06
March 8	07 45	1	-17 +23 +18 +32 -14 +12 -28	16 32 02 19 87 307 334	F E B D B G A	43 18 02 19 04 10 01

TABLE IX—contd.

1	2	3	4	5	6	7
March 9	H M 07 40	1	-18 +24 +14 +33 +11 +20 +18	16 34 06 19 31 320 289	F H A E G A B	08 16 01 30 22 01 12
March 10	08 03	2	-18 +24 +16 +32 +13 +21 +16 +22	17 40 08 14 314 321 296 352	F J A E G A C A	11 07 01 23 27 05 16 06
March 11	07 40	2	-18 +23 +15 +32 +13 +22 +15 +22	16 33 09 14 311 320 296 353	E J A E E B F A	21 03 01 21 28 01 20 01
March 12	07 50	2	-18 +32 +13 +11 +22 +16	15 14 310 296 355 235	D H E E B B	15 11 40 11 08 03
March 13	10 00	2	+32 -17 +21 +12 +13 +14 +12	14 14 357 314 296 246 230	H D C E E J E	05 05 10 42 41 02 10
March 14	07 36	1	+12 +14 +18 +17 +13 -12 +36	314 295 358 243 228 311 218	D F B J D A A	20 45 05 05 22 18 01
March 15	07 50	1	+12 +14 +16 +13 -13 +36 -23	314 296 247 231 311 213 203	D F J D B J A	12 41 01 16 07 03 01
March 16	14 05	2	+10 +11 -14 +15 +12 +36 -24 +18 -16	310 297 311 248 228 214 202 201 184	H F B J E G A A J	05 48 03 02 36 08 01 01 01

TABLL IX—cont'd

1	2	3	4	5	6	7
March 17	II M 07 16	2	+12 +13 +16 +14 -14 +37 -23 -16 +17	311 299 248 232 310 214 202 182 174	J F J E B J A J J	01 29 01 32 03 09 01 11 03
March 18	07 45	1	+13 +14 +13 -14 +36 -23 -16 +21 -13 +09	298 243 229 315 213 201 182 177 200 165	E A D A C B J C A A	03 01 45 01 07 02 01 08 01 01
March 19	07 58	2	+13 +15 +12 +36 -23 -16 +21 +09 +21	298 247 230 214 202 182 176 165 157	E J D H A J E J A	15 01 39 09 01 01 21 01 01
March 20	08 02	1	+15 +13 +36 -24 -18 +21 +07 +24	247 230 212 201 182 175 163 151	A D H A J F J B	01 29 10 01 01 23 01 08
March 21	07 11	1	+14 +36 -17 +22 +08 +24 +19	231 210 180 176 162 149 121	D H J L J D J	33 06 01 14 01 14 04
March 22	07 44	1	+14 +35 -17 +22 +08 +24 +18	232 210 181 176 163 150 122	C H J E J E J	15 06 01 32 04 22 05
March 23	07 48	2	+14 +35 -17 +20 +08 +24 +18 -11 -12	232 208 180 173 163 149 120 196 93	D G J F J E J B F	18 04 01 43 02 39 07 08 15

TABLE IX—contd

1	2	3	4	5	6	7
	H M					
March 24 . . .	07 15	2	+10 +35 -17 +20 +08 +24 +18 -10 -12 -06 -20 +22	232 209 180 174 163 152 121 199 93 109 78 95	J J J F J E J B F A G B	02 04 01 26 04 24 05 03 16 02 05 04
March 25 . . .	07 39	1	+34 -17 +21 +08 +23 +18 -12 -08 -22 +18	208 180 175 165 150 116 88 110 68 100	J J E J E J F J G A	04 01 30 02 29 06 19 05 12 04
March 26 . . .	07 44	1	-17 +21 +08 +23 +19 -12 -08 -22 +19	178 173 164 150 120 90 110 72 98	J E J D J F B E A	02 28 01 27 01 30 16 24 03
March 27 . . .	07 59	1	+21 +09 +24 +19 -06 -12 -22 +19 -17	174 161 150 119 112 91 72 99 40	E J E J D F F A F	26 01 29 05 39 91 32 13 03
March 28 . . .	09 05	1	+22 +10 +24 +20 -13 -05 -21 +18 -17 +23	173 167 151 120 90 113 72 99 39 28	J J F J F D F B F H	09 01 15 04 63 20 29 10 15 02
March 29 . . .	08 30	1	+08 +23 +20 -12 -06 -23 +17 -18 +24 +08	164 145 119 91 117 73 97 35 31 88	A J J F E E B G J A	01 20 01 64 39 40 17 25 11 9

TABLE IX—contd

1	2	3	4	5	6	7
March 30 .	II. M. 08 05	1	+23 +18 -12 -06 -23 +18 -17 +24 +07 -17 +30 +20	144 117 91 115 73 98 35 31 89 12 09 02	B J F G F B E J A B B A	04 01 70 24 33 13 25 05 05 07 11 02
March 31	08 04	1	+22 +18 -06 +19 -10 -23 +05 -17 -16 +24 +33 +19 -18	142 116 115 99 88 73 41 34 17 31 09 04 358	B J G B F F A F J H E B D	142 116 115 08 62 42 10 32 02 01 17 03 14
April 1	08 55	2	+20 -10 -06 -23 +22 -17 +24 -16 +33 +19 -18 +06 +28 +12	120 90 118 73 104 35 32 17 06 06 02 42 396 334	J F J F B F J H E B D B A A	01 46 09 32 02 29 05 02 24 05 12 15 02 01
April 2	07 49	1	-10 -11 -24 -18 +24 -17 +28 +18 -17 +07 +28 +12 -27	88 117 72 33 30 13 02 359 03 42 327 329 317	E A E G J J E A H J A A A	58 05 28 38 01 05 30 08 28 12 03 05 05
April 3	10 00	3	-10 -23 -16 +25 -14 +33 +21 -15	87 69 32 27 14 05 358 04	E D G J B F B G	21 19 14 01 04 31 05 20

TABLE IX—contd.

1	2	3	4	5	6	7
	H M					
			+07	41	J	05
			+27	338	J	01
			+13	331	B	06
			-23	321	A	01
			+19	14	A	01
			-24	16	B	10
			+09	01	J	03
April 4	09 55	2	-10	92	E	03
			-23	72	D	11
			-17	36	G	16
			+23	28	G	01
			+16	16	B	02
			+30	04	E	27
			+16	359	A	10
			-17	05	F	24
			+07	41	D	07
			+27	340	A	06
			+13	335	C	18
			-24	318	B	07
			-26	19	D	12
			+12	300	F	13
			+06	294	J	01
April 5	07 50	2	-23	73	J	06
			-17	36	G	12
			+24	28	G	01
			-17	15	B	02
			+32	05	E	35
			+19	359	B	07
			-17	06	E	26
			+07	43	B	06
			+26	341	A	06
			+13	336	B	11
			-24	320	B	05
			-26	20	B	08
			+12	301	E	08
			+06	296	A	02
			+14	320	B	11
April 6	08 02	1	-20	35	G	08
			+24	28	J	01
			-17	16	B	02
			+32	05	E	41
			+20	360	B	05
			-17	06	D	18
			+07	47	J	03
			+27	340	A	07
			+12	337	B	05
			-24	326	A	01
			+26	20	B	04
			+12	305	E	11
			+06	297	A	02
			+14	320	D	23
			-14	305	B	06
			+23	351	B	07
April 7	07 50	1	-17	34	J	07
			+25	25	J	03
			+30	04	E	27
			+20	355	A	03
			-18	04	G	06
			+07	45	J	02
			+08	328	A	04
			-23	321	A	01

TABLE IX—contd

1	2	3	4	5	6	7
	H M					
			26	15	B	08
			+14	300	E	11
			+07	296	A	03
			+14	316	E	35
			-14	304	B	04
			+24	346	B	08
			+14	293	A	01
			+11	278	A	01
April	08 10	2	- 17	34	H	01
			+25	27	H	01
			+31	05	E	12
			+20	359	A	11
			-18	05	D	01
			+08	336	A	06
			-26	18	B	02
			+24	352	J	03
			+15	319	E	46
			+12	303	E	31
			+05	292	A	05
			-15	300	A	01
			+10	291	\	01
			+13	278	A	01
			+11	212	A	01
April 9	08 05	1	+25	31	J	01
			+31	03	D	12
			+19	359	J	11
			-18	09	D	06
			+08	338	A	02
			-26	19	A	02
			+12	303	E	36
			+12	319	E	41
			-15	306	A	07
			+23	350	A	01
			+11	292	A	01
			+13	278	\	01
			+15	239	B	09
			-16	258	A	01
April 10	07 18	2	+33	09	J	06
			+22	357	G	11
			-18	12	J	02
			+13	339	A	03
			+11	302	E	15
			+14	317	G	35
			-17	302	B	15
			+12	233	B	16
			-14	255	B	11
			-13	280	A	02
			-05	215	A	01
April 11	09 40	3	+21	351	J	01
			+12	340	A	01
			+11	301	E	12
			+15	319	C	12
			-16	301	B	05
			+14	235	A	03
			-15	257	B	08
			-11	281	B	03
			-06	219	J	04
			+25	338	A	01
			-23	258	B	04

TABLE IX—cont'd

1	2	3	4	5	6	7
April 12	H. M. 08 04	2	+ 28	330	A	02
			+ 15	318	G	24
			+ 13	300	L	29
			- 15	303	B	05
			- 15	257	B	10
April 13	07 54	2	23	258	B	05
			06	210	J	02
			+ 13	299	E	16
			+ 16	321	J	11
			- 15	255	B	01
April 14	07 35	3	01	217	J	01
			22	211	B	07
			+ 15	236	A	04
			+ 12	249	A	05
			- 17	218	A	01
April 15	07 35	3	+ 14	297	L	08
			05	316	A	03
			14	216	A	08
			+ 27	290	A	09
			28	232	A	02
April 16	11 50	3	+ 30	189	A	03
			+ 10	179	A	05
			+ 13	205	H	02
			05	211	A	01
			- 11	211	A	02
April 17	08 08	3	+ 25	202	B	05
			+ 18	171	B	03
			- 10	256	G	06
			- 22	151	L	06
			+ 10	151	A	01
April 18	08 08	3	+ 13	291	H	04
			- 11	253	C	09
			- 05	208	A	01
			- 16	208	A	01
			+ 13	171	C	17
April 19	08 05	2	21	147	L	25
			+ 39	119	H	01
			+ 17	173	B	11
			- 10	215	B	06
			- 22	119	E	27
April 20	08 05	2	+ 37	151	J	01
			+ 13	212	B	05
			+ 19	222	A	03
			+ 07	225	B	05
			+ 11	185	A	02
April 21	07 36	2	+ 15	119	A	02
			- 17	124	A	02
			+ 18	173	C	16
			- 08	253	B	07
			- 23	148	F	13
April 22	07 36	2	+ 38	150	A	01
			+ 12	239	B	06
			+ 20	223	B	04
			+ 12	118	J	04
			08	199	A	02
April 23	08 51	2	+ 23	118	A	03
			+ 17	174	B	16
			- 23	118	F	15

TABLE IX—*contd*

1	2	3	4	5	6	7			
	h m								
April 22	07 45	1	+38	119	A	03			
			+13	213	B	02			
			+12	120	J	06			
			-08	128	A	01			
			+22	149	A	01			
			+31	177	B	10			
			11	186	B	01			
			-17	175	B	16			
			-22	146	E	30			
			+37	116	J	03			
			+12	118	II	16			
			+23	117	B	08			
			-08	95	A	02			
			13	83	A	01			
+08	81	A	18						
+15	63	J	02						
+11	61	A	03						
April 23	07 26	2	+17	175	B	07			
			23	117	F	39			
			+36	115	A	01			
			+12	117	D	13			
			+23	117	B	05			
			-07	97	B	07			
			-13	83	B	10			
			+08	81	D	19			
			+15	66	J	01			
			+01	62	A	01			
			+13	153	A	02			
			-18	10	J	01			
			April 24	07 51	2	+17	173	B	01
						-22	111	F	36
+21	117	B				03			
-10	122	B				03			
+13	117	D				13			
25	109	A				01			
07	96	B				09			
-11	82	B				09			
+09	81	C				33			
+16	61	II				06			
+08	61	A				01			
+11	15	A				03			
-16	36	II				01			
April 25	07 59	1				-23	118	G	27
			+11	118	J	07			
			+26	118	A	03			
			-07	99	B	08			
			-11	82	B	05			
			+09	81	D	41			
			+11	66	II	06			
			-18	37	II	03			
			-10	121	A	02			
			-21	110	A	01			
			+13	09	A	02			
			April 26	07 38	2	-22	151	E	17
						+12	118	J	08
						-05	99	A	08
+12	79	E				29			
+17	64	J				03			
-16	38	J				01			
+28	16	J				01			

TABLE IX—contd.

1	2	3	4	5	6	7
	h m					
April 27	08 02	2	+17	06	J	01
			-17	06	J	01
			-22	147	J	02
			+12	117	J	01
			-05	98	A	02
			+12	79	E	21
			+15	63	C	03
			-16	35	J	01
			+27	15	A	01
			+16	05	D	11
April 28	08 05	2	-17	02	B	04
			-22	87	A	07
			+13	47	A	01
			+24	33	A	01
			+12	119	J	02
			+12	18	E	24
			+16	65	J	03
			-17	36	H	01
			+26	13	A	01
			+16	04	E	17
April 29	08 06	2	-18	06	A	01
			-19	19	A	02
			+19	36	A	07
			-26	10	B	07
			-17	343	B	20
			+12	121	J	02
			+11	81	E	15
			+16	63	J	01
			-17	34	J	01
			+26	11	J	01
April 30	08 45	2	+16	01	J	27
			-17	04	E	01
			-25	08	A	12
			-17	345	E	35
			+11	75	D	01
			+15	62	J	01
			-16	35	J	01
			+27	11	J	01
			+17	02	E	17
			-18	03	J	07
May 1	07 42	2	-25	08	B	09
			-17	344	F	35
			-24	30	A	01
			+13	80	D	03
			+17	68	J	01
			-14	39	H	01
			+29	14	J	01
			+19	05	E	50
			-17	05	J	03
			-22	13	A	08
May 2	09 45	2	-15	348	F	55
			+25	41	A	05
			+25	300	J	01
			+11	302	J	01
			+13	78	D	03
			+16	65	J	01
			-16	35	H	02
			+24	35	B	03
			+28	27	B	01

TABLE IX—contd.

1	2	3	4	5	6	7
	h m					
			—25	14	B	02
			+27	11	J	02
			—17	01	J	04
			+16	05	E	27
			+21	319	B	08
			—15	345	F	67
			+24	293	G	05
			+09	298	J	01
May 4	09 20	2	—18	35	J	04
			+27	12	J	01
			+17	05	E	13
			—18	01	J	01
			—27	13	B	04
			—16	345	E	56
			+27	38	B	04
			+26	291	E	17
			+10	300	J	01
			+28	29	J	05
			+21	351	E	13
			+11	338	B	02
			+03	305	B	11
			+13	251	A	01
May 8	08 51	2	—15	315	H	10
			+25	290	D	08
			+11	298	J	01
			+22	353	B	05
			+02	301	B	07
			+13	253	C	04
			—24	03	A	01
			+08	263	B	04
			+23	308	B	08
			—04	213	A	04
May 10	12 10	3	+26	295	H	05
			+11	298	J	01
			+03	301	B	05
			+15	255	C	03
			+07	266	C	14
			—06	209	B	12
			+13	280	A	05
			+20	259	A	04
			—12	224	A	04
			—17	187	D	13
May 12	11 20	3	+26	280	J	02
			+11	293	J	01
			+14	254	J	01
			+08	263	D	06
			—07	204	B	04
			—17	183	D	09
			—24	145	J	01
			+16	284	A	01
May 14	07 50	3	+15	256	J	01
			+08	266	J	01
			—07	207	B	07
			—17	185	E	29
			—23	148	J	01
			—08	153	B	03
			—06	135	C	05
May 15	08 05	3	+14	256	J	01
			+07	262	J	01

TABLE IX—contd

1	2	3	4	5	6	7	
	h m						
May 16	•	10 13	3	-06	207	J	01
				-17	185	E	24
				-22	145	J	01
				-05	132	H	02
				+13	256	J	01
May 17	• •	08 22	3	-07	208	A	01
				-17	183	E	28
				-23	145	J	01
				-06	131	H	03
				+39	112	J	03
May 18		08 14	2	-06	213	A	01
				-17	184	E	41
				-24	146	J	01
				-07	134	H	04
				+39	116	J	03
May 19	•	08 20	2	+23	78	J	02
				-17	184	E	22
				-24	146	J	04
				-07	134	G	04
				+39	116	G	08
May 20	•	08 20	2	+23	81	J	01
				-17	186	E	16
				-24	144	H	01
				-07	133	E	14
				+39	115	E	17
May 21	•	07 58	2	+23	80	H	02
				+24	140	D	06
				-24	117	B	10
				+16	74	A	01
				+18	60	A	10
May 22	•	08 00	2	-17	187	D	08
				-24	143	J	01
				-07	132	G	05
				+40	111	E	17
				+22	81	H	10
May 23	•	08 12	3	+24	136	D	07
				-24	119	B	03
				+18	64	A	01
				+18	71	A	02
				-13	185	A	04
May 24	•	08 00	2	-23	145	J	01
				-07	132	G	06
				+40	111	D	20
				+19	83	G	10
				+25	138	C	20
May 25	•	08 12	3	+17	58	A	01
				+08	32	A	01
				-18	35	A	01
				+07	90	A	15
				-23	145	J	01
May 26	•	08 12	3	-07	133	D	05
				+40	111	D	15
				+21	82	G	06
				+25	138	C	06
				+17	61	A	01
May 27	•	08 12	3	+08	35	J	01
				-17	33	J	01
				+08	93	B	13

TABLE IX—contd

1	2	3	4	5	6	7
	h m					
May 23	. . .	2	-13	80	A	03
			-29	120	A	02
			-21	141	H	01
			-07	132	D	05
			+25	134	C	09
			-25	119	A	07
			+40	109	D	15
			+09	96	E	29
			-14	79	C	06
			+21	79	H	06
			+17	60	A	01
May 24	. . .	2	-16	33	H	01
			+08	33	A	01
			+21	06	A	01
			-25	143	J	01
			-08	176	J	01
			+39	103	J	02
			+22	77	H	06
			+21	137	J	02
			+08	32	J	01
			-17	33	J	01
			+08	93	E	16
May 25	. . .	2	-13	78	C	06
			-23	118	D	08
			+19	06	A	01
			+05	48	C	06
			-16	355	D	07
			-24	122	C	07
			-08	137	A	01
			+38	101	A	01
			+23	79	J	04
			+08	32	J	01
			-16	93	J	01
May 26	. . .	3	+09	96	D	15
			-13	80	B	03
			-28	85	B	04
			+23	02	B	03
			+07	49	D	12
			-18	357	G	06
			+38	101	A	04
			+23	79	J	04
			+08	32	H	02
			-17	32	I	04
			+09	96	E	14
May 27	. . .	2	-13	80	D	04
			-25	122	C	06
			+23	03	B	03
			+07	50	D	13
			-18	357	E	11
			-30	85	B	03
			+23	78	J	01
			+08	34	H	04
			-16	33	J	01
			+09	100	J	05
			-13	81	J	05
+23	03	B	04			
+07	51	B	05			
-17	354	E	09			
-16	321	A	01			
+18	19	A	01			

TABLE IX—contd.

1	2	3	4	5	6	7
May 28	h m	2	+28	311	A	02
			-27	338	A	03
	07 54		+09	96	J	01
	-12		78	J	05	
	+23		78	J	01	
	+02		53	A	03	
	+08		34	H	03	
	-17		31	H	03	
	+20		10	J	01	
	-17		354	F	14	
	-33		335	A	04	
	-15		317	H	02	
+26	311	H	02			
+12	297	A	01			
May 29	07 39	2	+23	78	A	01
			+08	31	J	01
			-16	31	J	01
			-13	82	A	01
			+18	08	C	06
			+08	50	A	01
			-17	351	E	22
			-15	317	J	01
			+26	310	H	04
			-22	332	B	03
			+12	298	A	01
			+18	305	A	02
			+27	342	A	10
			+27	282	B	02
			May 30	07 42	2	+09	34	J	01
-15	34	J				01
+18	06	B				18
-15	352	E				32
-15	319	J				01
+26	308	J				01
-31	335	A				03
+12	301	A				04
+18	304	A				06
+23	343	C				24
+27	284	J				06
+19	332	A				05
-21	278	A				01
May 31	08 00	2				+09	34	J	01
			-15	34	J	01
			+18	06	D	08
			-17	352	J	21
			-15	319	J	05
			+26	308	J	01
			-31	335	A	01
			+17	304	A	03
			+28	342	C	24
			+27	285	J	01
			-21	282	A	02
			June 1	08 42	2	+09	34	J	01
-16	31	J				01
+17	05	B				09
-16	352	D				09
-15	320	J				03
+25	308	H				04
+17	304	A				03
+28	344	D				21

TABLE IX—*contd.*

1	2	3	4	5	6	7
	h m		+25 -23 +17	284 278 330	J A A	01 02 04
June 2	08 08	2	+09 -16 +16 -15 +28 +19 -15 +24 +15 +24 -22	34 31 05 352 343 331 318 306 303 281 276	J J B G E B H A H B	01 01 02 08 29 08 01 01 01 02 03
June 3	08 45	2	-14 -15 +24 +16 +28 +25 -22 +18 -29 -23 +30	351 318 305 303 341 281 277 331 334 221 216	D D J A E H B B A J J	09 07 02 02 27 04 06 09 04 04 01
June 4	08 03	2	-14 -16 +24 +17 +29 +25 -20 +17 -23 +28 +09 +08 +42	349 320 305 302 340 281 275 331 222 213 278 252 215	C D J B E H A B B B B A	04 04 02 08 20 03 04 16 07 04 03 09 02
June 5	11 20	2	-14 -15 +24 +17 +29 +25 -21 +16 -23 +28 +10 +10 +43 -17	350 318 305 301 340 281 275 330 222 212 277 254 207 201	J J H D E H A D B B B A B J	03 01 02 12 09 01 03 14 04 19 06 03 09 03
June 6	09 35	2	-15 +26 +17 +30 +25 -22 +16	322 302 301 334 280 275 337	J J D J H A J	02 02 08 03 02 02 06

TABLE IX—*contd.*

1	2	3	4	5	6	7
			-23 +28 +10 +43 -18	223 210 280 213 200	B E B D B	06 18 06 17 05
June 7	08 11	1	-15 +26 +16 -20 +25 +10 -23 +44 +29 +16 -18	321 302 299 278 278 275 225 211 206 200 199	J J D A H B J E F G C	01 01 10 01 02 03 01 36 50 06 10
June 8	07 50	2	+26 +17 +26 -22 +28 +44 -17 +15 -16	301 297 277 224 205 210 200 178 176	J J H D F E J B A	01 04 02 07 62 41 04 07 01
June 9	07 53	1	+18 +25 -23 +28 +45 -17 +16 -16 -07	299 279 276 207 214 200 199 179 149	A H B F F B A A A	02 11 14 61 33 06 04 14 04
June 10	07 51	1	+25 -23 +28 +45 -17 +16 -15 -22 +13 +13 -26	278 228 206 213 201 200 180 177 178 164 132	H C F F B A A A A A B	07 13 62 15 04 04 08 07 04 02 01
June 11	08 26	2	+25 -23 +28 +54 -18 +16 -15 -24 +14 -24 -08	279 227 206 210 199 200 179 186 164 137 186	J J F F A B B B A J A	01 01 57 42 01 06 07 05 06 01 03
June 12	08 32	2	-21 +44 +28	226 207 205	J F F	03 26 50

TABLE IX—contd.

1	2	3	4	5	6	7
	h. m.					
			+17	199	B	06
			-18	199	A	01
			-25	185	B	04
			-17	176	B	15
			+14	164	B	09
			-25	131	J	02
			+10	107	A	02
			+17	99	A	03
June 13	09 13	2	-23	227	J	03
			+28	204	E	30
			+43	206	E	12
			-17	198	A	01
			+16	198	J	05
			-18	179	J	04
			-25	185	A	02
			-24	135	A	01
			+10	100	A	01
			+14	105	D	10
			-27	90	H	02
June 14	07 52	2	-24	232	A	04
			+27	199	E	52
			+43	207	E	19
			+15	199	A	02
			-27	180	A	10
			-24	128	A	06
			+13	102	G	22
			-28	87	H	04
June 16	09 05	2	+27	197	J	05
			+42	207	J	02
			+15	103	D	20
			-27	90	H	02
			+07	51	A	02
			-28	190	A	02
			-23	127	A	01
June 18	11 34	2	+15	104	E	14
			-27	89	D	03
			+06	51	A	01
			-11	57	A	02
			+19	40	B	04
			+14	21	A	02
June 19	08 27	2	+16	104	E	23
			-25	91	D	08
			+07	49	J	02
			+20	38	B	07
			+12	16	A	05
			+12	83	A	07
June 21	14 40	2	+14	103	E	13
			-25	91	H	05
			+07	49	J	01
			+20	37	B	05
			+12	14	B	18
			+06	83	A	03
			-14	356	B	06
June 22	08 18	2	+14	102	H	04
			-26	86	H	04
			+07	48	J	02
			+21	36	B	02
			+13	13	E	22

TABLE IX—concl.

1	2	3	4	5	6	7
	h m		+06	82	A	02
			-14	356	D	02
			-32	70	A	01
June 26	09 16	2	+07	50	A	01
			+14	11	D	60
			-13	351	B	19
			-21	30	B	02
			-24	354	A	02
			-15	337	B	04
			-21	315	E	38
			-07	311	A	02
			+09	304	D	21
			+18	301	A	01
			-11	295	A	03
June 28	08 30	2	+14	12	A	16
			-09	359	A	04
			-18	317	E	42
			-06	313	A	01
			+12	302	E	11
			-11	295	A	03
			+27	272	A	04
			+13	268	A	06

PART II

Magnetic Observations for the I 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 co-efficients for the Horizontal Force were 28 γ /cm for the months of February and March and 29 γ /cm for the remaining four months of the first half of 1958. The adopted values of the scale co-efficients for Vertical Force and Declination magnetographs for the first half of 1958 were 115 γ /cm and 14'/cm respectively.

Trends in magnetic variations

The mean value of and range in Horizontal Force for the first half of 1958 were 39,528 γ and 194 γ respectively showing an increase over the corresponding values, namely, 39,521 γ and 187 γ for the second half of 1957. The mean value of and range in Vertical Force decreased from 2343 γ to 2332 γ and from 55 γ to 54 γ respectively in comparison with the corresponding values for the second half of 1957. The mean westerly declination was 2°36' 2 and its mean range was 5' 4 showing an increase of 0' 2 over the corresponding mean value and range for the second half of 1957.

A. K. DAS,

Dy Director-General of Observatories.

Kodaikanal Observatory,
August, 1958

MAGNETIC DATA

TABLE I

Hourly Values of Declination (Westerly), 1958

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

January

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††	34.1	35.6	36.4	37.3	37.1	36.6	36.7	35.9	34.8	34.5	34.8	34.6	34.9	34.8	34.5
2	34.8	35.7	37.3	38.0	37.6	36.6	36.0	36.3	35.0	34.8	34.6	34.2	34.3	34.6	34.5
3†	36.0	36.0	36.4	36.4	36.4	37.0	37.5	37.2	37.5	37.4	36.5	35.7	35.6	36.0	35.4
4†	36.3	36.1	36.3	36.1	35.6	37.0	37.4	37.7	37.5	36.8	36.7	36.5	36.0	35.7	35.3
5†	36.8	36.4	36.4	36.3	35.4	34.9	35.3	36.3	36.5	37.0	36.5	36.4	36.3	36.1	35.7
6	36.8	37.4	37.5	36.5	34.7	33.9	35.1	36.1	35.3	36.0	36.7	36.4	36.4	36.4	36.1
7†	36.8	37.1	37.7	37.0	34.9	34.6	36.0	36.0	35.1	35.3	35.4	35.8	36.4	36.3	36.1
8†	37.1	37.7	38.8	38.6	37.5	37.3	37.8	36.5	35.1	35.1	35.1	35.9	36.4	36.4	35.7
9	37.2	37.8	37.9	37.5	37.1	38.0	38.3	37.5	36.5	36.5	36.8	36.6	36.6	36.8	36.2
10	36.2	36.6	36.6	36.6	36.8	37.5	37.2	37.2	36.6	36.6	36.6	36.4	36.4	37.2	36.4
11	36.4	36.6	37.5	37.8	37.5	38.9	39.6	39.2	38.5	37.6	36.4	36.8	36.9	37.2	36.8
12	36.6	36.9	36.1	35.8	36.2	36.9	38.5	39.4	38.0	38.3	38.5	38.0	37.5	37.2	36.5
13	36.5	35.8	35.2	35.1	35.4	36.1	37.1	38.2	37.5	37.8	38.2	37.6	36.5	36.4	36.2
14	36.8	36.9	36.5	36.1	36.2	37.8	39.3	40.6	41.1	40.7	39.6	38.0	37.5	36.4	35.7
15	36.8	36.6	36.8	35.7	35.0	36.5	38.0	38.2	37.8	37.2	36.9	36.9	36.9	36.9	35.7
16	36.5	36.6	36.2	35.4	36.2	37.6	39.2	39.0	39.0	39.6	38.9	37.5	36.8	36.5	35.9
17††	36.8	36.8	35.9	35.1	34.5	35.1	36.6	38.2	39.0	39.7	39.4	37.9	37.6	36.5	35.5
18††	35.1	35.4	36.1	35.1	35.4	36.6	36.9	37.8	38.6	38.3	37.2	36.6	36.4	35.5	35.2
19	35.5	35.5	35.6	35.2	34.2	36.0	36.6	36.7	36.6	36.9	37.6	37.4	36.9	36.7	36.5
20	36.9	37.3	36.9	36.5	35.1	36.3	38.0	39.4	37.9	37.6	36.7	36.5	35.6	36.3	36.3
21††	36.6	37.6	37.7	37.7	35.6	35.3	35.9	35.6	36.3	36.7	36.7	36.8	36.7	36.6	35.7
22	36.0	36.4	36.3	35.7	35.2	36.3	38.0	38.7	38.1	36.8	36.6	36.3	36.3	36.6	36.3
23††	36.4	36.6	37.0	37.4	36.8	38.1	38.3	37.2	35.3	35.7	35.8	36.2	37.2	37.1	36.7
24	36.4	36.7	37.5	37.5	37.1	36.9	37.6	38.6	38.1	35.8	36.7	36.5	36.4	36.5	35.7
25	36.7	36.8	36.8	37.2	37.5	38.0	38.6	39.3	39.6	39.3	39.3	38.4	37.7	37.2	36.5
26	37.0	37.2	37.0	35.8	35.5	36.6	37.5	38.7	39.3	38.2	36.5	35.5	35.6	35.9	35.9
27	35.9	36.5	36.5	36.2	36.6	38.1	38.5	38.8	38.7	37.3	36.9	37.0	37.4	37.0	36.6
28	37.0	37.0	37.3	37.0	36.0	37.0	40.2	40.1	39.0	36.7	35.7	36.0	36.0	36.6	36.6
29	37.1	37.1	37.0	36.8	37.3	38.4	39.0	39.7	38.0	37.0	37.0	36.8	35.9	35.9	35.9
30	37.3	37.9	38.4	38.0	35.9	36.9	39.6	39.6	38.7	38.2	37.2	36.5	36.5	36.6	36.6
31	37.3	38.0	38.3	38.2	37.0	37.2	38.0	38.0	37.2	36.6	36.5	36.6	36.9	36.9	36.6
Mean .	36.4	36.7	36.9	36.6	36.1	36.7	37.7	38.0	37.5	37.2	36.9	36.6	36.5	36.4	36.0
Mean†	36.6	36.7	37.1	36.9	36.0	36.0	36.8	36.7	36.3	36.3	36.1	36.1	36.1	36.1	35.6
Mean††	35.8	36.4	36.6	36.5	35.8	36.3	36.9	36.9	36.8	37.0	36.8	36.4	36.6	36.1	35.5

†Five International quiet days

††Five International disturbed days

ΔLoss 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)

January

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	Mag	
									H	M	II	M			
34.2	34.5	34.2	33.8	33.4	33.2	33.2	33.5	33.8	34.0	04 18	38.4	20 04	32.8	5.6	1††
34.5	34.8	34.6	34.9	35.0	35.2	35.5	35.6	35.9	35.4	02 56	38.4	11 17	33.8	4.6	2
35.3	35.3	35.6	35.6	35.7	35.7	35.7	36.0	36.3	36.2	06 00	37.5	15 00	35.3	2.2	3†
35.4	35.6	36.0	36.0	36.0	36.3	36.3	36.4	36.7	36.3	07 00	37.7	14 00	35.3	2.4	4†
35.8	36.1	36.0	36.0	36.1	36.1	36.1	36.4	36.7	36.2	08 52	37.1	05 14	34.6	2.5	5†
36.0	36.0	36.1	36.0	36.1	36.3	36.3	36.3	36.5	36.1	01 13	37.7	04 45	33.7	4.0	6
36.1	36.3	36.4	36.1	36.3	36.3	36.1	36.7	36.8	36.2	02 00	37.7	01 28	34.0	3.7	7†
35.9	36.2	36.4	36.2	36.2	36.2	36.4	36.5	36.6	36.6	02 30	38.9	08 28	35.0	3.9	8†
36.2	35.9	35.9	35.8	36.2	35.9	35.1	35.1	35.8	36.7	05 33	38.6	20 50	35.2	3.4	9
35.8	35.5	35.9	36.2	36.1	35.1	35.5	36.1	36.1	36.1	05 27	37.8	20 00	35.4	2.4	10
36.4	36.6	36.6	36.6	36.2	35.8	35.8	36.1	36.2	37.1	05 30	40.6	20 30	35.7	4.9	11
36.4	36.5	36.4	36.2	36.2	36.2	36.2	36.5	36.5	37.0	07 15	40.0	03 00	35.8	4.2	12
36.4	36.5	36.6	36.8	36.8	36.2	36.2	36.2	36.6	36.6	07 05	38.3	03 01	34.8	3.5	13
36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.5	37.3	07 48	41.4	13 35	35.1	6.0	14
35.4	35.8	35.9	35.9	35.8	36.2	36.1	36.1	36.1	36.5	07 02	38.3	03 52	34.4	3.9	15
36.4	36.2	36.2	36.2	35.8	35.4	35.1	36.1	36.2	36.9	09 30	40.0	03 00	35.1	4.9	16
35.4	35.7	35.9	35.8	35.5	35.5	35.1	35.1	35.1	36.4	08 55	40.3	03 12	34.3	6.0	17††
35.4	35.2	35.1	34.8	34.8	34.8	34.8	35.1	35.2	35.9	07 44	40.2	03 10	34.4	5.8	18††
36.2	36.2	35.9	35.6	35.9	36.2	36.5	36.7	36.7	36.2	10 10	37.7	03 39	31.1	3.6	19
36.2	36.2	36.0	36.2	35.9	35.6	35.5	35.8	35.9	36.5	06 45	39.5	03 30	34.9	4.6	20
35.6	35.6	35.6	35.4	35.3	35.3	35.3	35.3	35.3	36.1	02 42	38.3	01 16	34.3	4.0	21††
35.7	35.7	35.7	35.7	35.6	35.6	35.9	36.1	36.0	36.3	06 42	39.1	03 30	31.7	4.4	22
36.8	36.2	36.0	36.0	35.4	35.3	35.4	35.7	35.8	36.1	06 00	38.6	08 05	35.0	3.6	23††
36.1	36.5	36.4	36.2	36.1	36.2	36.5	36.7	36.7	36.7	07 08	39.0	13 45	35.5	3.5	24
35.8	35.6	35.2	35.4	35.5	35.9	36.1	36.5	36.8	37.2	08 15	39.8	17 00	35.1	4.7	25
35.9	35.9	35.9	35.6	35.6	35.9	35.9	35.9	35.9	36.1	07 58	39.6	03 30	34.8	4.8	26
36.6	36.6	36.6	36.6	36.2	36.6	36.7	36.6	37.0	37.0	06 42	39.1	03 24	35.9	3.2	27
36.6	36.9	37.0	36.7	36.7	36.7	36.9	37.0	37.1	37.1	06 09	40.6	09 35	35.6	5.0	28
35.8	35.9	36.1	36.5	36.6	37.0	37.2	37.0	37.2	37.0	06 11	40.5	15 00	35.8	4.7	29
36.8	36.9	36.9	36.9	36.9	36.8	36.9	36.9	37.2	37.3	07 34	40.0	01 20	35.5	4.5	30
36.5	36.5	36.5	36.6	36.8	36.8	36.8	36.9	36.9	37.1	02 24	38.7	09 35	36.2	2.5	31
35.9	36.0	36.0	35.9	35.9	35.9	35.9	36.1	36.3	36.5					4.1	Mean
35.7	35.9	36.1	36.0	36.1	36.2	36.2	36.1	36.6							Mean†
35.5	35.4	35.4	35.2	34.9	34.8	34.8	34.9	35.0							Mean††

†Five International quiet days

††Five International disturbed days.

Δ 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)
2° plus tabular quantities

February

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	37.3	37.7	38.3	38.0	37.3	37.3	37.6	36.9	36.5	36.2	35.9	36.2	36.6	36.3	35.6
2	37.6	37.9	37.6	36.8	36.2	35.8	35.7	36.5	36.7	35.4	35.3	36.4	37.2	36.8	35.8
3†	37.4	38.1	37.5	39.3	38.2	36.9	36.8	36.8	35.7	35.3	35.8	36.9	37.1	36.4	36.4
4	37.8	37.9	38.5	38.2	36.9	36.8	37.2	36.7	35.5	35.8	36.5	37.1	37.4	37.2	36.8
5	35.5	36.8	37.5	37.9	37.2	37.2	37.6	36.0	34.3	35.3	35.3	35.4	36.4	35.5	35.5
6††	35.8	36.8	38.2	38.2	38.9	39.1	38.4	36.7	35.6	35.0	36.3	37.3	37.0	36.7	36.3
7	35.6	36.3	37.0	37.0	36.8	38.0	38.2	36.7	35.0	34.0	33.9	34.9	35.2	36.3	35.6
8	35.3	36.1	37.0	37.1	37.7	39.6	39.6	38.2	36.4	35.0	33.9	34.6	35.4	35.4	35.3
9	34.6	34.7	35.6	36.8	37.8	39.6	40.0	39.0	37.4	35.4	35.0	35.3	35.4	36.1	35.8
10	36.0	36.4	36.7	38.2	40.0	41.1	41.1	40.3	38.2	36.4	35.3	35.1	36.0	36.2	35.7
11††	35.3	35.2	37.4	43.4	41.8	39.2	36.5	35.7	32.0	30.8	28.5	28.3	29.2	31.3	29.8
12††	32.9	33.3	33.6	34.2	35.2	36.8	37.9	38.7	36.9	35.8	34.2	33.8	34.7	34.5	34.2
13	36.5	37.0	37.2	38.2	38.6	38.3	38.4	38.6	38.2	36.6	35.6	35.2	35.4	35.2	35.4
14	35.5	35.4	35.1	35.1	35.2	36.5	37.0	37.9	37.9	36.8	35.8	35.4	35.5	35.6	35.5
15‡	35.9	36.5	37.0	36.9	36.8	36.8	37.2	36.9	36.9	36.8	36.7	36.4	37.1	36.8	36.5
16	37.5	37.5	37.1	37.5	38.5	38.8	38.8	38.6	38.2	37.6	36.9	36.8	37.1	37.2	36.7
17††	37.8	38.5	38.9	38.8	38.5	38.4	37.1	36.8	35.6	34.9	35.4	35.6	37.3	36.6	36.4
18‡	35.6	35.6	36.8	37.0	37.1	38.0	37.8	36.4	35.7	36.3	36.6	36.6	36.8	36.3	36.0
19	35.7	36.1	36.6	36.2	36.5	36.9	36.7	34.8	33.7	33.0	33.7	34.8	36.5	36.3	35.9
20	35.2	35.6	36.9	37.9	38.6	38.6	37.7	36.9	35.3	35.1	35.2	35.2	36.0	36.2	36.2
21	35.3	35.5	35.5	36.2	37.3	37.9	37.5	37.2	35.4	35.4	34.8	35.0	35.8	35.8	35.5
22	35.2	35.0	34.5	35.8	37.2	38.2	38.3	38.2	37.8	36.2	36.1	35.7	36.4	36.2	35.4
23	35.5	35.2	35.0	34.6	35.3	36.3	38.1	38.8	37.7	36.4	35.6	35.3	35.1	35.8	35.3
24‡	35.7	35.4	35.0	35.0	36.1	37.5	38.8	39.3	38.9	38.7	37.7	35.7	35.8	35.8	35.4
25‡	36.4	35.8	36.0	36.0	36.9	38.7	39.9	39.1	38.8	37.4	36.4	36.3	36.7	36.3	35.9
26‡	36.4	36.3	36.4	36.9	37.7	38.0	39.8	38.8	38.0	37.3	36.2	36.0	36.3	36.2	36.0
27	36.3	36.3	36.3	36.9	37.9	38.9	40.0	39.4	38.3	36.9	35.8	35.1	35.5	35.6	35.8
28	35.8	35.5	35.4	36.5	37.9	39.8	40.1	40.1	37.9	36.5	35.8	35.2	35.1	35.9	35.5
Mean	36.0	36.2	36.6	37.2	37.5	38.0	38.2	37.7	36.6	35.8	35.4	35.4	35.9	35.9	35.6
Mean†	36.4	36.4	36.4	36.8	37.1	37.6	38.5	38.2	37.7	37.1	36.6	36.3	36.6	36.3	36.0
Mean††	35.5	35.9	37.0	38.3	38.2	38.3	37.5	36.9	35.2	34.6	34.2	34.3	35.0	35.1	34.5

†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)

February

2° plus tabular quantities

Hours G M T										Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23	Mean	Time	Mag	Time	Mag	Mag	
'	'	'	'	'	'	'	'	'		II	M	II	M	'	
35.8	35.8	35.9	36.2	36.5	36.8	36.9	37.0	37.3	36.7	05 39	37.9	14 00	35.6	2.3	1
35.8	36.0	36.0	36.0	36.4	36.5	36.8	36.8	37.1	36.5	01 00	37.9	10 00	35.3	2.6	2
36.5	36.7	36.7	36.7	36.5	36.7	36.8	37.1	37.5	36.9	03 22	39.5	09 00	35.3	4.2	3†
36.2	36.4	36.4	36.1	35.5	35.1	35.7	34.8	35.0	36.6	02 08	38.8	20 50	34.1	4.7	4
36.1	36.1	35.5	35.4	35.1	35.1	34.8	34.7	35.3	35.9	05 42	39.0	07 58	34.0	5.0	5
35.4	35.2	31.9	35.0	35.2	35.3	35.2	35.3	35.2	36.4	05 32	39.5	17 05	31.6	4.9	6††
35.9	35.6	35.6	35.4	35.4	35.1	35.3	35.4	35.1	35.8	05 50	38.4	10 00	33.9	4.5	7
35.9	35.2	35.6	35.6	35.3	35.2	34.7	31.3	34.6	35.9	05 50	10.3	09 36	33.6	6.7	8
36.0	35.8	35.3	35.4	35.7	35.7	35.4	35.5	35.5	36.2	05 30	40.3	00 02	34.5	5.8	9
35.7	35.4	35.1	35.1	31.7	34.4	34.4	34.6	31.8	36.5	01 55	41.1	20 00	34.4	7.0	10
30.9	30.8	32.0	31.8	31.2	31.1	32.0	32.5	32.3	33.3	03 10	45.5	09 42	26.4	19.1	11††
34.2	34.4	34.9	35.1	35.1	35.1	35.2	35.5	35.6	35.1	07 03	40.4	01 53	32.3	8.1	12†
35.5	35.5	35.4	35.1	35.6	35.8	35.5	35.5	35.5	36.4	06 06	39.0	12 42	34.9	4.1	13
35.8	35.9	35.5	35.8	35.8	35.8	35.8	36.1	35.9	35.9	07 15	38.0	01 23	34.8	3.2	14
36.2	36.2	36.5	36.7	36.8	36.8	36.8	36.8	37.1	36.7	06 00	37.5	00 01	35.9	1.6	15†
36.1	36.1	36.8	36.8	36.5	36.5	36.5	36.5	37.1	37.2	01 35	38.9	15 00	36.1	2.8	16
36.3	36.3	36.3	35.6	35.3	35.3	35.3	35.3	35.4	36.6	03 36	39.2	09 10	34.3	4.9	17††
36.0	35.7	35.6	35.4	35.2	35.6	35.3	35.4	35.6	36.2	05 48	38.7	18 40	35.0	3.7	18††
36.0	36.0	35.9	35.8	35.3	35.5	35.5	35.5	35.2	35.6	04 40	37.7	09 00	32.7	5.0	19
31.8	36.0	35.9	35.6	35.5	34.8	34.1	34.1	35.2	36.0	01 25	37.9	21 54	33.8	4.1	20
35.9	35.9	35.7	35.4	35.4	35.1	35.4	35.5	35.1	35.8	01 36	38.3	10 32	34.4	3.9	21
35.8	35.9	36.1	36.2	35.8	35.5	35.7	35.5	35.0	36.2	05 52	38.0	01 48	33.7	5.2	22
35.3	35.7	36.0	36.1	35.6	35.7	35.6	35.7	35.7	35.9	06 40	39.2	03 00	34.6	4.6	23
35.7	36.1	36.1	36.1	36.1	36.1	36.1	36.3	36.3	36.5	07 00	39.3	02 00	35.0	4.3	24†
35.9	35.9	36.0	36.0	36.0	36.0	36.0	36.2	36.3	36.7	05 45	40.1	01 20	35.4	4.7	25†
36.0	36.0	36.3	36.2	36.2	36.2	36.2	36.2	36.3	36.7	06 04	40.1	11 00	36.0	4.1	26†
35.8	35.9	36.1	36.1	35.8	35.5	35.6	35.9	35.8	36.6	06 15	40.1	11 00	35.1	5.0	27
35.2	35.5	35.6	35.6	35.8	35.8	35.9	35.9	35.9	36.4	06 51	40.4	12 04	34.8	5.6	28
35.6	35.7	35.7	35.7	35.7	35.5	35.5	35.6	35.7	36.2					5.1	Mean
36.1	36.2	36.3	36.3	36.3	36.4	36.4	36.5	36.7							Mean†
34.6	34.5	34.7	34.6	34.4	34.5	34.6	34.8	34.8							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)

March

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†	36.2	36.1	36.1	36.7	38.1	39.2	39.6	39.2	38.1	37.5	36.5	35.8	35.7	35.8	35.4
2†	35.4	35.5	35.7	36.0	37.1	37.9	38.3	37.6	36.5	35.8	34.8	34.6	34.8	35.8	35.8
3	36.0	36.0	36.0	35.6	36.1	36.8	36.6	36.3	35.7	34.7	33.2	32.9	34.6	36.0	35.9
4	34.6	31.3	34.9	35.3	36.0	36.0	36.0	35.7	35.7	34.3	33.5	33.3	34.2	34.2	34.5
5††	34.6	34.9	35.7	36.1	37.1	38.2	38.7	37.1	34.7	36.2	34.3	34.3	34.9	35.0	34.6
6	34.9	34.9	34.7	35.5	35.5	36.7	37.9	37.6	37.3	36.3	35.6	35.2	34.4	34.6	34.5
7	34.6	34.5	34.8	34.9	35.5	36.2	37.0	37.0	36.9	36.0	35.9	35.8	35.3	34.4	34.5
8	34.8	34.8	34.8	34.8	35.2	35.8	37.0	37.2	36.0	35.6	34.9	34.8	34.8	35.3	35.1
9	34.5	34.2	33.9	34.1	35.1	36.1	37.2	36.1	35.7	35.4	35.5	35.4	35.5	34.7	34.7
10	35.5	35.2	35.4	35.4	35.7	36.1	36.5	38.3	38.0	38.2	36.4	34.8	34.4	34.7	34.5
11	34.4	34.4	35.1	35.7	36.1	36.9	37.3	37.9	37.2	36.6	35.9	35.7	35.5	35.5	34.7
12††	34.4	33.8	33.8	33.1	34.0	35.0	34.8	34.8	34.8	34.4	34.5	34.1	33.8	33.4	33.0
13††	35.9	36.1	36.0	35.9	35.9	35.9	35.9	35.7	34.7	34.1	33.7	33.0	33.0	32.9	△
14	34.0	34.0	34.0	34.1	34.7	35.5	35.9	36.8	36.9	35.9	34.8	34.5	34.5	34.1	35.1
15	35.7	35.5	35.4	35.8	35.8	35.8	36.6	37.2	37.2	36.6	36.1	36.2	35.5	35.0	34.4
16†	34.5	34.0	33.6	33.4	34.1	36.1	37.5	38.7	39.2	38.9	37.2	36.5	36.1	35.7	35.4
17	34.7	35.0	35.4	35.5	36.2	37.5	37.5	38.0	35.8	33.7	35.8	35.1	34.7	34.3	34.3
18	35.5	35.2	35.2	35.5	35.7	37.1	36.9	36.9	36.4	37.3	36.6	35.9	35.8	35.1	34.4
19††	34.3	31.1	34.1	34.1	34.8	35.6	35.9	36.6	37.3	37.4	36.9	36.3	35.6	34.4	34.1
20††	35.6	35.6	35.6	35.6	36.9	37.4	37.4	37.4	38.7	37.6	36.5	34.8	34.9	35.3	34.8
21	34.8	35.1	35.5	35.8	37.0	37.9	38.3	37.9	37.6	36.9	36.0	35.9	35.9	35.8	35.5
22	33.8	33.4	33.1	33.2	34.4	35.6	36.7	37.4	37.3	36.7	35.8	36.3	34.8	35.2	34.8
23	35.3	35.2	34.6	34.6	34.6	34.4	35.6	37.0	36.6	35.8	34.8	34.4	34.5	34.8	34.4
24	34.4	34.2	34.2	34.6	35.8	36.0	37.2	37.0	36.9	36.3	35.3	34.9	34.8	35.2	35.2
25	35.1	31.6	34.1	33.9	34.7	35.4	36.1	36.8	36.7	35.9	35.2	35.4	35.4	34.7	34.2
26	35.7	35.6	34.9	35.0	35.7	36.0	36.8	37.8	37.7	37.7	37.3	36.1	35.0	35.6	35.3
27	35.3	35.0	34.7	34.5	35.7	35.9	37.0	38.2	38.7	38.4	37.1	36.1	36.0	35.9	35.6
28†	35.7	35.9	35.6	35.3	35.7	36.7	37.4	38.5	38.5	37.4	36.3	35.7	35.6	35.7	35.7
29†	36.0	36.0	35.3	35.1	36.1	37.1	38.5	38.9	39.0	38.8	37.5	36.8	36.4	36.0	35.7
30	36.0	35.7	31.8	35.0	35.8	36.7	38.1	39.0	39.2	37.5	36.1	35.7	35.7	35.1	34.4
31	34.6	33.4	33.4	33.7	34.7	36.2	37.1	38.1	38.8	38.6	37.6	36.7	36.1	35.8	35.1
Mean	35.0	34.9	34.8	34.9	35.7	36.5	37.1	37.4	37.3	36.7	35.7	35.4	35.2	35.1	34.9
Mean†	35.6	35.5	35.3	35.3	36.2	37.4	38.3	38.6	38.3	37.6	36.5	35.9	35.7	35.8	35.6
Mean††	34.7	34.6	34.8	34.7	35.7	36.5	36.7	36.5	36.4	36.4	35.5	34.9	34.8	34.5	34.1

†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)

March

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		
35.5	35.7	35.7	35.7	35.7	35.7	35.8	35.8	35.7	36.6	06 15	39.9	14 00	35.4	1.5	1†
35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	36.0	05 50	38.5	11 00	31.6	3.9	2†
35.9	35.9	35.7	35.1	35.0	31.6	31.7	31.6	31.3	35.1	01 58	37.0	10 30	31.9	5.1	3
34.9	34.9	31.6	34.5	34.5	31.9	35.3	35.3	35.0	31.9	05 43	37.1	10 15	33.2	3.9	4
34.6	34.6	31.5	31.3	34.5	31.6	31.7	31.7	31.7	31.3	06 11	39.9	08 04	33.3	6.6	5††
33.9	34.4	31.5	31.5	31.6	31.1	31.5	35.1	34.9	35.3	06 28	38.4	11 52	33.8	4.6	6
34.6	34.8	31.6	31.5	34.6	31.5	31.5	34.5	31.9	35.2	07 10	37.6	13 00	31.4	3.2	7
34.8	35.2	35.2	35.2	35.1	34.8	31.8	31.6	31.6	35.3	08 11	37.6	21 35	31.5	3.1	8
34.7	34.7	35.1	35.1	35.1	35.1	35.4	35.5	35.5	35.2	05 36	37.5	02 00	33.9	3.6	9
34.7	34.7	31.7	31.7	34.7	31.7	31.7	34.7	31.1	35.5	07 20	38.6	12 00	31.4	4.2	10
34.7	34.7	31.3	31.1	34.1	34.1	34.1	34.4	34.1	35.3	06 51	38.2	19 00	34.0	4.2	11
33.1	34.1	31.1	34.0	31.1	31.1	31.5	35.4	35.9	34.2	07 15	35.7	14 00	33.0	2.7	12††
Δ	Δ	Δ	Δ	33.0	33.1	31.0	34.1	34.1	35.0	Δ	Δ	Δ	Δ	Δ	13††
35.0	31.1	34.8	35.2	35.1	35.0	35.0	35.1	35.5	35.0	08 00	36.9	02 00	33.7	3.2	14
31.5	34.1	31.3	31.3	31.5	34.7	34.7	34.7	34.5	35.1	06 46	37.6	18 00	31.0	3.6	15
35.2	35.1	35.1	35.1	34.8	31.8	34.8	34.7	31.7	35.6	07 40	39.6	03 15	33.1	6.5	16†
34.1	34.3	31.3	34.0	34.0	34.5	31.7	35.1	35.2	35.3	08 02	38.9	09 50	33.4	5.5	17
34.5	34.3	31.4	34.0	33.7	33.1	33.0	33.1	31.3	35.2	09 05	37.5	21 00	33.0	4.5	18
33.1	33.2	33.2	33.5	33.5	31.1	34.1	31.2	31.6	34.8	09 00	37.1	17 30	33.1	4.3	19††
31.6	34.6	31.6	34.5	34.5	31.5	34.8	34.1	34.6	35.6	08 25	38.8	21 45	31.2	4.6	20††
34.6	34.6	34.4	31.2	34.1	31.1	31.2	33.7	31.2	35.6	06 13	38.7	22 15	33.1	5.3	21
31.8	31.9	31.9	31.8	34.8	31.8	31.9	34.9	34.8	35.5	07 30	37.8	02 22	33.4	4.1	22
34.2	31.5	31.5	31.2	31.1	34.2	31.5	34.6	34.6	31.8	07 08	37.3	20 15	31.1	3.2	23
31.6	31.4	31.8	31.4	34.2	31.1	31.6	34.8	35.2	35.1	06 45	37.3	01 00	34.2	3.1	24
31.2	35.1	31.7	35.3	35.1	35.0	35.2	31.7	35.0	35.1	07 03	37.0	03 00	33.9	3.1	25
34.6	31.5	31.3	31.6	34.7	31.6	35.0	35.3	35.1	35.6	07 20	38.2	16 39	31.0	4.2	26
35.7	35.6	35.1	35.3	35.1	35.0	35.3	35.7	35.7	36.0	08 12	39.1	03 00	31.2	4.9	27
35.7	35.7	35.3	35.2	35.2	35.1	35.7	35.9	35.9	36.1	06 50	38.7	17 30	34.9	3.8	28†
35.8	36.0	35.7	35.7	35.8	35.8	35.8	35.8	35.8	36.5	08 08	39.5	03 08	35.0	4.5	29†
33.4	33.7	31.0	31.1	34.1	34.1	31.7	35.0	35.0	35.6	07 02	39.6	15 27	33.2	6.4	30
35.0	34.6	31.6	34.6	34.6	31.6	31.7	34.7	34.6	35.5	07 30	39.2	01 30	33.3	5.9	31
34.7	31.8	34.7	31.7	34.7	31.7	34.8	34.9	35.0	35.1				1.4	Mean	
35.6	35.7	35.5	35.5	35.5	35.5	35.6	35.6	35.6						Mean†	
33.9	31.1	31.1	31.1	31.2	31.3	31.5	31.7	31.9						Mean††	

†Five International quiet days

††Five International disturbed days

ΔLoss 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)

April

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	33 9	34 1	33 6	34 0	34 9	36 2	37 9	39 0	39 0	37 9	36 8	36 3	36 2	35 6	34 9
2††	34 9	34 7	34 1	34 7	35 4	36 2	38 3	39 0	38 6	37 3	36 5	35 8	34 9	35 4	34 7
3	35 8	35 1	34 8	35 1	35 5	36 3	37 5	38 3	39 0	37 5	36 1	35 2	35 2	34 9	34 9
4††	35 4	34 8	34 5	34 9	35 9	36 1	37 5	37 9	38 3	37 6	36 3	35 8	35 5	35 2	34 5
5	33 4	33 1	33 0	33 6	35 2	36 2	36 4	37 6	37 7	37 0	37 6	36 4	34 6	34 8	34 6
6	34 6	33 6	33 5	34 5	36 2	37 4	38 4	39 2	39 4	38 0	37 0	35 2	34 8	35 2	35 6
7	34 8	34 8	33 8	33 6	33 8	34 8	36 0	37 7	37 4	36 2	35 3	34 5	34 8	35 0	34 8
8	34 8	35 0	34 6	34 7	35 3	36 4	37 5	37 9	38 1	37 4	35 3	34 3	34 0	34 9	35 0
9	35 0	34 9	34 7	35 1	36 4	37 1	38 2	39 1	38 6	37 9	36 3	35 1	34 9	35 0	35 4
10†	34 9	34 3	34 1	35 1	36 3	37 5	39 3	40 5	39 6	38 4	36 7	35 7	35 4	35 4	35 6
11†	36 1	35 3	35 0	35 8	36 8	38 0	39 6	40 1	40 4	38 6	37 2	36 2	35 7	35 7	35 9
12†	36 4	35 7	35 1	35 8	36 5	37 8	39 2	40 7	40 6	39 2	37 3	36 2	35 9	35 8	36 1
13†	36 2	35 2	35 0	35 5	36 8	38 6	40 4	41 0	40 6	38 7	36 8	35 9	35 8	35 8	36 2
14	36 2	35 8	35 1	35 2	36 3	36 5	37 7	39 0	39 3	38 3	36 9	35 9	36 2	35 9	35 2
15	35 1	33 9	33 9	34 5	36 0	37 0	38 1	39 1	39 0	37 4	36 5	35 5	35 1	35 1	35 3
16††	34 1	33 8	33 7	34 2	36 3	38 3	39 4	39 4	37 7	37 2	35 9	34 9	34 5	35 3	36 0
17††	34 5	33 4	32 8	33 6	35 3	36 3	37 1	38 2	38 0	37 0	36 3	35 9	35 2	35 3	35 3
18††	35 0	34 0	33 3	33 8	34 2	35 6	37 1	38 1	38 0	37 1	36 6	35 0	34 6	33 6	33 9
19	34 9	33 8	33 9	35 3	36 8	38 5	38 8	40 8	39 8	38 7	37 0	35 2	35 0	35 2	35 3
20	35 0	34 6	34 2	35 1	35 7	36 7	38 2	38 9	38 3	37 6	36 7	35 0	34 1	33 9	35 0
21	35 5	34 7	34 0	34 1	35 3	36 9	38 1	38 5	38 5	37 9	36 8	36 0	35 3	35 1	35 5
22†	35 7	35 1	34 0	31 1	35 1	35 7	36 7	37 5	37 8	36 7	35 7	35 0	35 1	35 3	35 7
23	35 4	34 8	34 3	34 8	36 8	38 3	39 4	39 4	38 7	37 3	36 8	36 3	35 5	35 2	35 5
24	35 2	33 7	32 6	33 7	35 6	37 1	38 4	39 6	38 6	37 3	36 8	36 2	35 9	35 2	35 4
25	35 2	34 1	33 8	31 1	35 5	37 9	39 6	40 4	40 1	39 7	38 9	37 6	36 9	36 5	36 5
26	35 6	35 4	35 6	36 6	38 0	39 2	39 7	40 5	40 1	39 4	38 1	36 7	36 0	35 7	36 6
27	35 2	33 8	33 8	35 2	37 0	38 7	40 1	40 0	40 4	39 7	38 4	36 9	36 0	35 9	35 6
28	34 3	35 2	33 8	34 9	36 7	37 7	38 8	39 8	39 7	38 1	36 0	35 5	35 2	35 2	35 3
29	33 9	32 7	32 4	33 7	35 6	37 0	38 5	39 6	39 8	38 5	37 5	36 7	35 7	35 3	35 7
30	35 3	34 0	33 5	34 4	35 8	37 7	39 1	39 6	39 3	38 1	37 5	37 0	36 0	35 0	35 6
Mean	35 1	34 4	34 0	34 7	35 9	37 1	38 4	39 3	39 0	37 9	36 8	35 8	35 3	35 2	35 1
Mean |	35 9	35 1	34 7	35 3	36 3	37 5	39 0	40 0	39 8	38 2	36 7	35 8	35 6	35 6	35 9
Mean ††	34 9	34 1	33 7	34 2	35 4	36 5	37 9	38 5	38 1	37 2	36 3	35 5	34 9	35 0	34 9

†Five International quiet days

††Five International disturbed days

△Loss of record, days omitted for means

TABLE 4

Hourly Values of Declination (Westerly), 1958

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

April

2° plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range Mag	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag		
									H	M	H	M			
31.7	34.5	34.7	31.8	31.4	31.5	34.7	31.5	34.7	35.5	07 52	39.3	02 20	33.4	5.9	1
31.9	31.8	34.8	31.9	31.8	34.9	35.2	35.2	35.2	35.2	07 04	40.0	02 00	34.0	6.0	2††
31.9	35.1	35.1	35.1	35.1	31.8	34.7	35.1	35.2	35.7	08 00	39.1	21 00	34.7	1.1	3
31.1	34.5	31.1	33.7	33.1	33.4	33.5	33.1	33.5	35.2	08 02	38.6	22 18	33.0	5.6	4††
31.2	31.2	34.5	31.6	31.9	35.2	35.3	35.2	31.9	35.2	07 12	37.8	01 24	32.4	5.4	5
35.0	34.8	31.6	31.6	31.3	31.6	31.5	31.5	31.3	35.6	07 30	40.1	02 00	33.5	6.6	6
31.8	34.6	31.6	34.9	31.9	31.9	31.8	34.9	31.8	35.0	07 15	37.8	02 15	33.5	4.3	7
35.0	35.0	34.9	35.0	31.9	31.9	35.1	35.1	35.0	35.4	08 00	38.2	11 15	33.9	1.3	8
35.1	35.6	35.1	35.3	31.9	34.9	31.9	31.9	34.7	35.8	07 05	39.2	01 50	34.6	4.6	9
35.8	35.7	35.8	36.0	35.8	36.0	36.1	36.1	36.1	36.4	07 10	40.6	01 15	34.0	6.6	10†
36.1	36.1	36.1	36.2	36.1	36.1	36.1	35.9	36.1	36.7	07 35	40.7	02 00	35.0	5.7	11†
36.2	36.2	36.1	36.1	36.1	36.1	36.1	36.5	35.9	36.8	07 15	40.8	02 00	35.1	5.7	12|
36.4	36.5	36.4	36.1	36.1	36.2	35.9	36.4	36.2	36.9	07 12	41.4	01 30	31.8	6.6	13†
35.5	35.9	35.9	35.5	35.3	35.2	31.9	34.8	35.2	36.2	08 00	39.3	23 59	34.6	1.7	14
35.2	35.3	35.3	35.2	31.9	31.9	35.2	35.2	35.2	35.7	07 00	39.4	02 00	33.8	5.6	15
35.9	36.6	35.2	31.9	31.9	31.9	31.9	31.4	31.6	35.7	06 45	40.1	01 45	33.5	6.6	16†|
35.3	31.9	31.5	31.2	31.9	34.9	31.2	31.2	31.5	35.2	07 15	38.7	01 35	32.7	6.0	17†|
31.7	31.9	34.3	34.3	31.9	31.5	31.5	31.3	31.2	35.0	07 19	38.5	02 00	33.3	5.2	18|†
31.9	34.9	35.0	31.9	35.0	35.0	31.9	31.7	31.6	36.0	06 58	40.9	01 15	33.5	7.1	19
35.1	35.3	35.3	35.3	35.1	35.1	35.1	35.0	35.3	35.7	07 00	39.3	13 00	33.9	5.1	20
35.7	35.5	35.5	35.3	35.4	35.1	35.4	35.4	35.5	35.9	07 25	38.9	02 00	34.0	4.9	21
35.8	35.7	35.7	35.5	35.4	35.4	35.5	35.1	35.5	35.6	07 35	37.9	02 00	34.0	3.9	22†
35.5	35.5	35.1	31.9	31.9	35.1	35.1	35.2	35.1	36.1	06 30	39.7	02 00	34.1	5.6	23
35.5	35.6	35.1	35.1	35.2	35.1	35.2	35.2	35.1	35.8	06 54	39.7	02 00	32.6	7.1	24
36.6	36.6	36.1	36.2	35.9	35.9	35.9	35.9	35.9	36.7	07 30	40.7	02 00	33.8	6.9	25
36.7	35.7	35.5	36.0	35.9	36.2	35.9	35.9	35.6	36.9	07 00	40.5	23 58	35.2	5.3	26
35.9	35.9	35.9	35.6	35.2	35.2	35.2	35.5	35.2	36.6	07 00	40.9	01 30	33.2	7.7	27
35.3	34.9	31.6	34.6	31.6	31.5	31.6	34.5	31.3	35.8	07 30	40.2	01 15	33.5	6.7	28
35.7	35.7	35.1	35.1	35.1	35.6	35.1	35.7	35.6	35.9	07 30	40.3	01 30	32.2	8.1	29
35.7	35.7	35.7	35.1	35.6	35.1	35.6	35.6	35.3	36.2	07 10	39.9	01 31	33.2	6.7	30
35.4	35.1	35.3	35.2	35.2	35.2	35.1	35.1	35.1	35.9					5.9	Mean
36.1	36.0	36.0	36.0	35.9	36.0	35.9	36.3	36.0							Mean†
35.0	35.1	31.6	31.1	31.6	31.5	31.5	31.2	31.1							Mean††

† Five International quiet days

|| Five International disturbed days

Δ Loss of record, day omitted for means

TABLE 5

Hourly Values of Declination (Westcily), 1958

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

May

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 0	33 7	32 8	31 3	30 0	28 1	27 4	26 6	25 8	25 1	24 1	23 5	23 6	23 3	23 6
2	35 1	33 9	32 8	31 6	30 9	29 7	28 2	26 6	25 1	24 5	23 8	23 8	23 7	23 7	23 8
3	35 6	34 3	33 2	32 2	31 4	30 7	29 2	28 2	27 5	26 7	26 1	25 7	25 7	25 0	25 0
4	35 1	34 4	34 2	34 1	33 5	32 5	31 0	29 6	28 6	27 8	27 8	27 5	27 7	27 5	27 8
5	35 7	34 7	34 5	35 4	36 5	38 5	40 0	41 1	41 1	40 0	38 3	37 1	36 1	35 5	35 8
6	35 8	34 9	33 1	34 0	35 8	38 5	40 9	41 1	40 4	38 9	37 2	36 2	35 9	35 8	35 1
7†	35 8	35 7	35 7	35 9	37 3	38 9	40 3	41 1	39 9	38 5	37 3	37 1	36 5	35 9	36 1
8	36 5	35 8	35 1	35 6	36 5	37 2	38 3	39 0	39 0	38 6	37 7	37 2	36 3	36 2	36 7
9	35 9	35 9	35 6	35 8	37 2	38 7	40 4	41 5	40 2	39 1	38 1	37 2	37 0	36 2	36 3
10	36 5	35 9	35 5	35 2	36 3	38 1	39 7	40 1	39 8	38 7	37 3	36 2	35 3	35 6	36 0
11	36 0	35 5	34 8	35 6	37 5	37 8	38 9	40 1	39 8	38 1	36 4	35 9	35 9	36 0	36 1
12	36 0	35 2	31 7	35 6	37 1	38 8	39 8	40 9	39 6	38 7	37 8	37 3	37 1	36 1	37 1
13††	36 1	35 7	35 0	36 2	37 5	38 9	40 0	40 7	40 1	38 9	37 6	36 9	37 1	36 1	37 1
14††	34 7	33 3	32 9	33 0	31 7	36 8	38 3	39 9	40 0	38 6	37 1	35 7	35 8	36 1	35 8
15	34 7	34 6	34 3	34 8	37 1	38 9	40 3	41 3	39 3	38 2	37 1	36 9	36 2	35 7	36 0
16	35 1	34 8	34 8	35 9	37 6	39 1	40 4	40 5	40 1	39 4	38 6	37 9	37 0	36 2	36 1
17	36 2	35 8	34 8	34 9	36 2	37 5	38 9	39 1	38 7	38 3	37 7	36 5	36 5	36 3	36 2
18	35 2	35 1	31 8	36 0	37 6	39 2	40 5	41 2	40 2	39 0	37 7	36 2	36 3	36 3	36 6
19	36 2	35 6	35 2	35 9	37 0	38 5	39 8	40 6	40 1	38 7	37 1	36 9	36 6	37 6	36 3
20	35 9	35 0	34 9	35 5	37 0	38 1	40 4	41 2	41 2	40 5	39 1	37 7	36 3	36 3	36 3
21	35 9	34 9	35 0	36 1	37 9	39 6	40 9	41 2	40 6	39 5	38 2	37 1	36 3	36 3	36 7
22†	36 3	35 7	35 1	35 3	36 5	38 9	40 3	40 2	39 5	38 1	37 2	36 4	36 1	36 3	36 5
23†	36 1	36 0	35 1	36 2	37 3	38 3	39 1	39 7	39 7	39 3	38 3	37 2	36 6	36 6	36 8
24†	36 5	35 5	35 1	35 7	36 6	38 2	39 4	40 3	40 6	39 4	39 0	37 9	37 2	36 8	36 9
25	36 6	35 8	35 2	35 8	37 8	39 6	41 1	41 1	40 3	39 0	38 0	37 2	36 8	36 9	37 6
26††	36 4	35 0	31 1	34 2	35 1	37 2	39 2	40 9	40 6	39 6	37 9	36 5	36 0	35 1	35 0
27	34 9	33 3	33 3	31 6	36 4	38 4	39 3	40 2	39 5	38 1	37 4	36 1	35 6	35 8	36 7
28	36 0	34 9	34 3	34 9	36 8	39 1	40 6	40 2	39 6	38 9	37 1	36 4	36 3	35 8	36 1
29††	35 1	34 0	33 9	31 6	34 3	37 9	40 5	40 5	40 5	39 1	37 1	36 3	35 6	34 3	34 6
30	35 0	34 0	33 6	33 6	31 6	36 0	37 8	38 8	38 5	37 5	36 5	36 5	36 7	36 4	36 1
31††	35 6	35 0	34 0	34 9	35 7	37 0	38 6	39 3	39 2	39 1	37 8	36 5	35 1	34 9	36 1
Mean	35 7	34 9	31 5	35 0	36 4	38 1	39 5	40 2	39 8	38 7	37 5	36 7	36 2	36 0	36 2
Mean†	36 2	35 6	35 2	35 7	36 9	38 7	39 9	40 5	40 2	39 2	38 2	37 3	36 5	36 1	36 5
Mean††	35 6	34 6	34 0	34 6	35 5	37 8	39 3	40 3	40 1	39 1	37 6	36 4	35 9	35 3	36 5

††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 centered at the full hours of Greenwich Mean Time)

Mag

2° plus tabular quantities

Hours G. M. T.										Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23	24		Time	Mag	Time	Mag	Mag	
35.7	35.7	35.1	35.7	35.8	35.6	35.1	35.3	35.3	35.8	07 56	39.5	02 00	32.6	6.9	1	
35.8	35.8	35.7	35.7	35.1	35.1	35.1	35.3	35.1	35.7	07 00	38.8	01 52	32.5	6.3	2	
36.1	36.1	36.0	36.0	35.7	35.6	35.6	35.7	35.1	36.1	07 00	39.2	02 08	33.0	6.2	3	
36.1	36.2	36.1	36.1	35.9	35.8	35.7	35.7	35.8	36.0	07 00	38.6	02 00	31.2	4.4	4	
36.1	36.1	35.8	35.8	35.5	35.1	35.5	35.1	35.5	36.7	07 00	41.4	02 00	34.5	6.9	5	
35.9	36.1	35.9	35.8	35.5	35.5	35.5	35.5	35.7	36.1	07 30	41.1	01 10	33.0	8.1	6	
36.8	36.6	36.5	36.2	36.1	36.1	36.1	36.2	36.5	37.1	06 15	41.1	01 00	35.7	5.7	7†	
36.7	36.7	36.6	36.3	36.3	36.3	36.3	36.2	36.0	35.8	07 10	39.1	02 00	35.1	4.0	8	
37.0	36.9	36.9	36.7	36.3	36.1	36.3	36.3	36.6	37.3	06 58	42.3	02 35	35.5	6.8	9	
36.3	36.6	36.3	36.3	36.6	36.3	36.2	36.3	36.2	36.8	07 25	40.4	02 30	31.8	5.6	10	
36.8	36.8	36.7	36.6	36.3	36.1	36.1	36.1	36.6	36.8	07 15	40.2	01 35	34.6	5.6	11	
37.5	37.3	37.3	37.0	36.3	36.1	36.0	35.9	35.9	37.1	06 00	39.8	02 00	34.7	5.1	12	
36.9	36.5	36.5	35.7	35.7	35.3	35.3	35.0	35.1	36.9	07 20	41.1	23 59	34.7	6.4	13††	
36.1	35.8	36.0	35.8	36.0	35.8	35.7	35.1	35.3	36.0	07 22	40.2	01 48	32.3	7.9	14††	
36.1	36.2	36.2	36.1	35.8	36.1	36.0	36.0	35.7	36.7	07 10	41.6	01 55	34.1	7.5	15	
36.2	36.2	36.2	36.1	36.1	36.2	36.2	36.2	36.2	37.1	07 00	40.5	01 30	31.7	5.8	16	
36.2	36.3	36.3	36.3	36.3	36.3	36.3	36.1	36.1	35.9	07 05	39.3	02 00	34.8	4.5	17	
36.6	36.6	36.4	36.3	36.3	36.2	36.0	36.2	36.3	37.0	07 08	41.5	01 36	34.7	6.8	18	
36.4	36.7	36.6	36.4	36.4	36.3	36.1	36.0	36.2	37.1	07 00	40.6	02 00	35.2	5.4	19	
36.4	36.4	36.1	36.1	36.3	36.3	36.4	36.6	36.3	37.2	07 30	41.5	02 00	34.9	6.6	20†	
36.8	37.0	37.0	36.7	36.7	36.4	36.5	36.1	36.4	37.3	06 45	41.3	01 00	34.9	6.4	21	
36.5	36.7	36.8	37.0	37.0	36.8	36.7	36.8	36.7	37.1	06 00	40.3	02 00	35.1	5.2	22†	
37.2	37.3	37.3	37.2	37.2	36.9	37.1	36.8	36.8	37.4	07 30	40.1	02 00	35.4	4.7	23†	
37.5	37.6	37.2	37.1	36.9	36.8	36.8	36.8	36.8	37.1	07 55	40.7	01 45	35.0	5.7	24†	
37.9	37.9	37.9	37.6	38.3	36.5	36.1	36.1	36.2	37.7	06 30	41.5	02 00	35.2	6.3	25	
34.9	34.7	34.7	34.7	34.7	34.9	35.0	35.0	35.3	36.1	07 20	41.2	01 35	34.0	7.2	26||	
36.7	36.7	36.1	36.1	36.3	36.0	35.6	35.8	35.6	36.5	07 00	40.2	01 20	32.9	7.3	27	
36.4	36.3	36.1	36.1	36.0	35.7	35.3	35.1	35.8	36.7	06 00	40.6	02 00	34.3	6.3	28	
35.1	35.0	35.0	35.0	35.0	35.1	35.3	35.3	35.1	36.0	08 00	41.3	02 07	33.7	7.6	29††	
36.3	36.4	36.4	36.3	36.1	36.0	35.1	35.6	36.3	36.1	07 50	39.1	02 35	33.5	5.6	30	
36.3	36.3	36.4	35.0	35.0	34.6	33.5	32.9	32.1	35.8	07 00	39.3	22 35	31.9	7.4	31††	
36.4	36.4	36.4	36.2	36.1	36.0	35.9	35.8	35.8	36.7					6.2	Mean	
36.9	36.9	36.8	36.8	36.7	36.6	36.7	36.6	36.6							Mean†	
35.9	35.7	35.7	35.2	35.3	35.2	35.0	34.7	34.6							Mean††	

†Five International quiet days

††Five International disturbed days.

△ Loss of record; day omitted for means.

TABLE 6

Hourly Values of Declination (Westerly), 1958

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

June

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††	31 9	31 1	30 8	31 3	31 4	37 2	38 7	38 7	38 9	37 8	36 6	36 1	35 4	35 4	35 9
2	35 0	33 8	33 0	33 3	35 4	37 6	38 6	39 7	39 7	39 2	38 0	37 0	36 1	35 2	35 1
3|	35 1	34 7	36 1	35 0	36 1	36 8	38 9	39 4	40 3	39 4	38 0	36 9	36 4	36 2	36 4
4|	36 1	35 0	33 8	31 1	35 1	35 2	38 9	40 3	40 6	39 6	39 2	38 2	37 6	36 6	36 4
5	36 5	35 1	35 7	40 4	35 5	37 8	39 1	39 9	40 6	40 6	39 0	37 5	36 5	36 4	36 4
6	36 4	35 3	34 8	31 8	36 4	38 5	40 6	41 7	40 8	39 2	38 3	37 9	36 8	36 2	36 1
7||	36 1	31 0	32 2	32 3	33 5	36 5	36 7	36 7	37 6	35 5	32 8	32 4	33 5	33 8	31 5
8	35 2	34 6	34 2	31 6	36 2	37 0	37 9	38 7	39 4	39 3	38 0	38 2	36 2	35 5	36 0
9	35 3	34 8	33 5	33 4	35 5	37 6	38 6	39 4	39 1	38 0	37 6	36 9	36 5	36 3	36 7
10	35 1	33 7	32 1	32 8	31 1	36 0	36 7	38 1	39 0	39 1	38 6	38 1	36 9	36 3	35 9
11	36 2	34 8	33 8	31 0	35 1	36 1	37 5	39 2	39 3	39 2	39 0	37 8	36 5	36 5	36 6
12	36 1	34 4	33 6	31 0	35 1	36 5	37 9	39 0	39 3	38 2	37 5	37 2	37 5	36 6	36 6
13	36 1	35 1	35 1	35 7	37 5	38 1	39 2	39 3	39 3	38 8	37 7	36 8	36 8	36 8	36 8
14	36 1	34 9	34 0	31 1	35 6	37 4	38 7	39 4	39 1	37 7	36 6	36 3	36 3	36 3	36 1
15	35 0	34 5	31 3	35 2	36 6	39 0	40 1	39 1	38 7	37 6	36 2	35 3	35 3	35 9	36 3
16	35 3	34 8	31 5	35 1	36 1	35 1	39 1	39 0	38 6	37 6	36 5	36 1	35 8	35 8	35 1
17|	34 7	33 8	33 5	33 7	34 9	36 9	38 7	39 3	38 1	37 5	36 3	36 1	35 8	35 9	36 2
18†	35 4	31 2	33 5	35 1	37 1	38 9	40 3	41 3	40 4	38 5	36 7	35 8	36 0	36 2	36 7
19	31 7	33 4	33 2	33 6	35 7	37 4	38 6	39 6	40 3	40 0	39 0	38 5	37 5	36 8	37 1
20†	35 5	34 8	34 8	35 5	37 5	38 5	39 5	39 0	39 2	38 5	37 8	37 4	37 2	37 2	36 5
21††	35 1	34 3	33 7	34 6	36 1	37 4	37 6	38 8	38 6	38 9	37 8	38 2	36 0	35 4	36 1
22	32 9	31 8	30 6	32 0	31 4	34 6	37 2	37 8	38 1	37 5	37 2	36 4	35 7	35 7	35 7
23	35 1	34 4	33 4	34 0	31 8	36 4	37 5	38 5	38 9	38 5	37 1	36 1	36 1	35 7	35 7
24	35 3	34 7	34 1	31 8	36 1	37 4	37 1	37 9	38 6	37 8	37 2	36 4	35 8	35 1	35 5
25	35 0	33 7	33 6	33 9	35 0	36 0	37 8	39 2	40 0	39 0	37 8	36 1	36 1	35 8	36 0
26	35 1	33 9	33 6	34 4	36 2	38 6	38 6	39 0	39 0	39 0	38 9	38 1	37 5	36 5	36 0
27	35 5	34 6	33 4	33 4	34 8	37 4	39 0	40 0	39 7	38 6	38 1	37 6	37 5	36 5	36 1
28††	35 4	31 7	34 1	33 9	35 8	37 4	38 6	40 0	39 0	38 6	37 8	36 4	36 2	37 1	37 1
29††	33 0	31 2	29 5	30 4	32 0	32 7	33 4	34 7	34 8	35 0	34 8	33 6	33 0	31 6	32 0
30	34 7	33 6	33 2	33 0	33 7	35 8	38 5	39 0	38 8	37 5	36 2	35 0	34 7	35 3	36 0
Mean	35.2	34 1	33 5	34 1	35 4	36 9	38 3	39 1	39 1	38 4	37 4	36 7	36 2	35 9	36 0
Mean†	35 4	34 5	34 3	34 7	36 1	37 3	39 3	39 9	39 8	38 7	37 6	36 9	36 6	36 4	36 4
Mean††	34 4	33 1	32 1	32 5	34 4	36 3	37 0	37 8	37 8	37 2	36 0	35 3	34 8	34 7	35 1

†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)

June

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	Mag	
									H	M		H	M		
35 8	35 9	35 8	35 2	35 4	35 8	34 8	35 1	35 0	35 4	05 45	40 0	02 00	30 8	9 2	1††
35 0	35 2	35 2	35 2	35 8	35 8	35 8	35 7	35 7	36 1	07 10	40 1	02 20	32 7	7 7	2
36 5	36 5	36 4	36 2	36 4	36 1	36 2	36 4	36 1	36 8	07 50	40 4	02 08	34 0	6 1	3†
36 6	36 5	36 5	36 4	36 4	36 4	36 4	36 1	36 6	36 9	07 50	40 7	02 00	33 8	6 9	4†
36 6	36 6	36 4	36 5	36 6	36 6	36 6	36 6	36 6	37 1	08 58	40 8	02 55	34 0	6 8	5
36 6	36 8	36 8	36 8	36 5	36 5	36 2	36 2	36 1	37 2	07 09	41 8	02 00	34 7	7 1	6
35 2	35 5	35 5	35 5	35 5	35 9	35 6	35 3	35 5	34 9	07 55	37 9	02 30	31 0	6 9	7††
36 5	36 6	36 7	36 6	36 3	36 2	36 3	36 6	36 3	36 6	08 00	39 4	02 00	34 1	5 3	8
36 7	36 7	36 7	36 9	36 6	36 3	36 5	36 3	35 6	36 6	07 23	39 5	02 30	33 0	6 5	9
36 0	36 3	36 3	36 3	35 6	35 5	35 6	35 8	36 0	36 1	09 00	39 1	02 00	32 1	7 0	10
36 8	36 6	36 1	36 4	36 4	35 1	36 2	36 1	36 1	36 6	07 30	39 6	02 00	33 7	5 9	11
36 8	36 6	36 4	36 1	36 2	36 1	36 1	36 2	36 1	36 5	07 15	39 7	02 00	33 6	6 1	12
37 0	37 1	36 8	36 4	36 3	36 3	36 3	36 1	36 1	37 0	07 10	39 8	02 00	35 1	4 7	13
36 6	36 9	36 7	36 1	36 1	36 2	36 2	35 6	35 3	36 5	07 15	39 5	02 00	34 0	5 5	14
36 6	36 6	36 4	36 2	36 0	36 0	36 0	35 9	35 9	36 4	05 25	41 5	01 30	33 8	7 7	15
35 9	36 1	36 2	35 9	35 8	35 5	35 2	35 2	35 1	36 1	06 15	39 4	01 22	34 1	5 3	16
36 3	36 3	36 2	36 2	36 1	35 9	35 9	35 8	35 6	36 1	06 16	39 1	02 00	33 5	5 9	17†
36 5	36 1	36 1	36 1	35 8	35 1	35 1	34 8	34 8	36 5	07 15	41 4	02 00	33 5	7 9	18†
37 1	37 2	36 8	36 1	36 0	35 8	35 7	35 4	35 5	36 7	08 00	40 3	02 20	36 5	3 8	19
36 9	36 9	36 4	36 2	36 1	36 0	35 8	35 7	35 3	36 8	06 35	40 3	01 25	33 7	6 6	20†
36 1	36 0	36 0	35 8	34 8	34 6	33 6	33 7	34 0	36 0	08 35	40 0	23 56	33 0	7 0	21††
36 0	36 1	36 0	36 0	36 1	36 0	35 7	35 7	35 3	35 4	07 40	38 5	01 50	30 5	8 0	22
36 0	36 0	36 1	36 0	35 7	35 8	35 8	35 8	35 4	36 0	08 00	38 9	02 30	33 2	5 7	23
36 1	36 1	36 1	36 1	36 0	35 8	35 7	36 0	35 5	36 2	07 55	38 8	02 25	34 3	4 5	24
36 0	36 1	36 0	35 8	36 0	36 0	36 1	36 1	35 8	36 2	07 40	40 2	01 15	33 1	6 8	25
36 1	36 1	36 4	36 1	36 0	36 0	36 0	36 0	35 8	36 6	07 00	39 0	01 45	33 4	5 6	26
36 8	36 8	36 5	36 5	36 4	36 1	36 0	36 0	36 0	36 7	07 30	40 2	02 12	33 2	7 0	27
37 2	37 1	36 7	36 5	36 4	35 8	34 4	34 1	33 6	36 4	07 18	41 1	23 59	32 9	8 2	28††
31 9	33 2	33 7	34 8	35 4	35 8	36 1	35 8	35 3	33 5	20 45	36 2	02 08	29 1	7 1	29††
36 4	36 7	36 4	36 2	36 1	36 1	36 1	35 8	35 8	35 9	07 02	39 2	02 30	32 9	6 3	30
36 2	36 3	36 2	36 1	36 0	35 9	35 8	35 7	35 6	36 3					6 5	Mean
36 6	36 5	36 3	36 2	36 2	36 0	35 9	35 8	35 7							Mean†
35 2	35 5	35 5	35 6	35 5	35 6	34 9	34 8	34 7							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)

January

39,000 γ 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††	390	396	411	407	430	385	433	451	476	489	484	459	464	446	428
2	428	442	462	461	478	505	523	570	572	553	526	505	471	456	446
3†	479	483	489	505	525	544	567	577	581	579	570	548	526	508	500
4†	496	498	506	530	549	580	611	611	596	581	574	554	539	526	521
5†	523	510	515	544	558	567	591	595	587	578	577	573	561	541	538
6	524	533	548	575	594	627	656	665	642	622	605	583	554	537	529
7†	532	542	564	591	612	638	662	654	613	583	573	565	556	544	532
8†	528	534	566	599	649	700	709	686	645	594	558	551	551	544	533
9	532	537	560	589	637	689	710	680	626	581	587	578	560	538	518
10	504	500	496	546	600	659	679	664	637	594	562	545	545	536	511
11	521	536	563	592	631	695	707	689	646	594	555	557	569	565	548
12	524	530	533	559	634	670	672	659	627	621	601	578	554	538	531
13	525	527	535	553	594	628	650	661	640	634	618	593	570	553	546
14	525	527	544	572	614	657	662	702	688	653	607	581	560	541	535
15	528	521	531	549	599	678	705	664	616	584	550	540	549	523	488
16	522	528	547	577	609	658	691	673	675	666	622	590	577	555	550
17††	537	529	524	533	562	583	545	665	646	609	573	534	524	525	526
18††	522	512	517	521	556	595	608	624	615	577	530	516	507	474	468
19	497	506	524	553	596	642	628	605	587	570	552	545	536	514	515
20	522	531	551	577	602	651	690	713	652	611	570	560	542	543	536
21††	520	538	531	525	511	507	492	487	527	532	519	517	514	513	512
22	513	518	543	581	612	671	684	658	607	569	553	548	531	511	483
23††	514	515	535	568	591	652	647	620	575	561	541	537	531	520	530
24	514	517	544	579	622	660	684	686	642	605	573	563	526	515	523
25	533	531	543	568	619	650	663	684	680	639	612	599	581	563	555
26	527	525	546	549	588	650	654	633	597	580	569	559	549	536	528
27	523	527	545	569	595	632	645	639	624	596	577	573	571	562	555
28	550	548	554	578	638	706	752	733	699	638	593	581	569	563	555
29	552	544	547	566	626	673	706	689	640	621	607	595	575	558	550
30	554	557	575	602	652	686	731	723	679	645	616	601	587	569	561
31	545	548	564	595	623	648	674	687	642	604	588	582	581	577	572
Mean	516	519	533	555	591	629	646	647	622	596	572	558	546	532	523
Mean†	514	513	520	554	559	606	628	625	604	583	570	558	547	533	525
Mean††	497	498	504	511	530	544	545	569	568	554	529	513	508	496	493

†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)

January

39,000 γ plus tabular quantities

Hours GMT									Mean	Maximum		Minimum		Range	Date			
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.				
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M.	γ	H	M.	γ	γ		
116	126	136	117	393	393	410	427	127	429	09	50	507	05	06	358	149	1††	
145	151	460	467	160	467	470	470	172	482	07	10	583	00	01	424	159	2	
495	491	490	491	492	193	492	193	495	517	08	20	582	01	18	475	107	3†	
518	518	520	520	520	522	522	525	530	510	06	06	616	00	01	195	121	4†	
332	532	521	526	533	532	530	529	528	517	05	54	621	01	33	500	121	5†	
521	520	520	524	530	532	531	530	531	564	07	12	673	16	51	517	156	6	
515	535	532	528	528	527	529	528	526	564	06	18	667	23	24	525	142	7†	
534	533	529	527	530	532	516	534	533	572	05	17	722	18	00	526	196	8†	
499	199	503	503	522	523	521	516	514	503	06	15	711	15	38	493	221	9	
512	520	519	526	529	521	521	528	525	553	05	38	685	01	38	489	196	10	
518	544	511	531	516	504	513	526	531	572	05	24	730	22	06	500	230	11	
535	533	530	510	511	534	539	537	531	509	05	36	710	06	06	523	187	12	
511	537	545	545	546	537	510	527	525	570	07	04	677	22	12	523	154	13	
531	522	516	521	529	532	531	532	528	571	07	22	719	17	26	512	200	14	
497	508	507	512	516	528	530	522	522	553	05	44	718	11	08	484	234	15	
541	537	534	530	530	530	525	526	535	576	06	04	718	22	08	521	197	16	
518	518	511	520	521	521	526	518	509	515	06	48	681	23	22	507	174	17††	
467	459	159	157	478	493	494	193	491	518	07	42	655	17	38	455	200	18††	
504	198	185	184	502	511	516	516	522	538	05	09	651	17	40	472	182	19	
526	540	536	528	530	531	533	513	523	568	06	06	730	23	33	514	216	20	
507	507	511	507	496	199	510	509	508	512	05	10	557	04	34	456	101	21††	
498	508	513	517	513	521	521	523	517	551	05	15	711	13	52	481	230	22	
519	516	502	515	518	511	508	515	515	711	05	02	662	16	46	499	163	23††	
520	531	531	532	535	737	517	517	534	564	06	18	694	12	28	510	184	24	
199	495	176	190	505	512	519	519	520	565	06	42	691	17	08	471	220	25	
522	513	508	506	512	526	530	521	518	552	06	20	677	17	31	503	174	26	
519	511	538	531	510	513	513	513	556	568	06	38	654	00	00	522	132	27	
530	555	544	545	517	545	516	551	555	592	05	58	761	19	57	542	219	28	
511	528	525	530	517	563	562	539	557	582	06	03	718	17	06	523	195	29	
553	551	551	517	513	514	517	550	515	595	06	25	743	19	16	541	202	30	
565	560	519	547	518	517	550	553	553	583	06	53	696	19	18	544	152	31	
517	517	515	515	518	520	522	523	522	552							178	Mean	
523	522	519	518	521	521	522	522	522										Mean†
185	185	184	183	181	183	490	192	190										Mean††

† Five International quiet days

†† Five International disturbed days.

Δ Loss of record; day omitted means

TABLE 8

Hourly Values of Horizontal Force, 1958

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

February

39,000 γ 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	552	561	584	609	638	657	649	642	621	593	572	577	574	553	543
2	551	558	578	600	635	652	647	622	617	593	575	574	573	560	546
3†	549	560	589	613	619	616	614	610	598	592	599	606	597	566	559
4	550	569	593	618	641	652	652	627	611	601	595	588	580	586	570
5	513	517	540	566	584	591	607	548	543	553	572	563	544	513	524
6††	513	516	544	579	638	613	600	551	511	488	516	528	528	517	500
7	521	526	554	611	661	670	656	618	563	520	526	537	528	532	527
8	521	518	555	623	677	727	704	650	586	534	489	512	529	521	520
9	504	502	533	602	613	644	644	617	571	528	524	528	535	542	533
10	509	514	547	593	649	662	663	656	620	586	557	547	546	537	523
11††	486	486	519	693	679	674	621	523	296	235	154	46	82	112	143
12††	389	387	404	433	459	516	528	560	493	478	457	448	457	450	446
13	469	480	502	542	588	615	611	603	588	573	556	552	527	494	484
14	491	485	492	505	514	562	579	590	607	586	556	537	524	507	486
15†	509	511	525	539	566	586	607	613	611	595	578	564	569	552	548
16	548	553	569	608	653	675	657	634	610	592	589	591	585	555	535
17††	572	583	605	644	653	617	539	523	480	460	490	483	499	471	431
18††	474	480	519	539	536	550	557	511	466	484	502	502	504	488	480
19	475	483	519	541	563	580	576	505	478	478	497	507	502	487	480
20	505	506	500	533	572	613	589	565	530	512	502	501	509	498	473
21	473	467	484	520	565	582	546	533	482	501	504	508	497	481	454
22	479	473	482	524	464	583	595	565	551	530	520	509	494	489	484
23	484	486	508	535	577	599	623	633	577	535	508	493	498	497	490
24†	488	490	506	533	577	633	652	651	617	579	547	513	502	506	501
25†	501	502	518	555	603	664	667	626	604	560	539	534	538	527	513
26†	508	509	529	567	610	643	681	645	610	584	560	550	543	535	523
27	502	506	527	564	606	632	646	638	613	589	578	571	559	537	526
28	498	500	532	579	613	640	633	632	569	534	534	530	513	517	502
Mean	505	508	532	570	602	623	619	596	558	535	525	518	516	505	494
Mean†	511	514	533	561	595	628	644	629	608	582	565	553	550	537	529
Mean††	487	490	524	556	593	594	569	534	449	429	424	401	414	408	400

*Tabular quantity plus 38000γ

†Five International quiet days

††Five International disturbed days

△Loss 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)

February

39,000 γ plus tabular quantities

Hours G. M. T.										Maximum		Minimum		Range	Date	
15	16	17	18	19	20	21	22	23	Mean	Time	Mag.	Time	Mag.	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M	H	M	γ	γ	
537	533	532	532	537	542	541	546	547	571	05	27	07	12	529	141	1
544	547	542	540	545	547	548	549	549	575	05	33	06	20	539	123	2
557	557	555	554	555	557	559	557	553	579	03	20	02	50	515	82	3†
547	537	537	542	532	518	501	506	508	573	06	17	06	11	498	166	4
519	505	500	498	508	520	503	491	501	535	05	45	06	05	486	172	5
503	478	470	506	509	515	513	526	521	529	04	00	16	26	468	180	6††
516	510	513	511	518	530	533	529	523	551	04	30	09	49	501	189	7
490	483	513	513	510	508	518	508	500	551	05	08	15	50	471	270	8
522	502	486	497	517	517	506	501	502	541	05	26	16	56	481	171	9
502	477	486	490	480	491	475	483	487	515	04	51	16	26	469	208	10
175	211	291	321	323	259	330	335	359	351	03	38	10	12	970*	842	11††
413	453	155	166	164	466	168	174	166	161	05	57	01	52	373	257	12††
486	483	166	477	490	502	495	491	496	521	01	59	02	10	461	160	13
493	499	499	481	497	502	501	504	509	521	07	45	07	58	480	136	14
536	531	552	519	548	518	543	512	515	557	07	22	00	06	508	111	15†
520	513	510	542	512	542	539	541	560	575	05	02	15	54	509	169	16
448	463	461	461	456	475	486	475	479	511	04	31	14	12	422	245	17††
477	475	465	461	467	479	469	477	477	493	05	48	18	50	454	138	18††
480	473	475	479	472	477	496	489	505	501	04	40	07	51	466	138	19
455	473	475	470	457	451	467	467	482	504	05	15	20	22	445	197	20
444	453	456	456	467	457	470	493	487	491	04	36	04	50	439	170	21
472	495	472	486	476	471	486	481	481	506	05	51	01	48	460	160	22
486	487	492	493	481	483	486	486	487	518	06	12	19	32	480	175	23
499	497	497	501	502	499	499	498	500	533	06	39	00	19	486	177	24†
510	507	506	507	508	504	506	509	509	542	05	28	00	52	499	183	25†
518	517	516	512	511	510	507	507	505	559	06	17	23	56	500	194	26†
529	518	513	512	500	491	495	503	499	548	05	54	00	37	487	161	27
498	497	492	499	506	506	505	502	500	535	06	53	17	00	490	162	28
499	487	492	495	496	497	498	499	502	528					496	Mean	
524	522	525	525	525	524	523	525	522							Mean†	
409	416	430	411	444	417	453	457	460							Mean††	

* Tabular quantity plus 38000 γ .

† Five International quiet days

†† Five International disturbed days

△ Loss of record, 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)

March

39,000 γ 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†	499	501	517	549	612	643	641	626	585	570	557	550	541	521	506
2†	501	506	528	559	612	652	640	592	555	530	527	520	530	521	513
3	515	523	555	557	649	679	665	629	590	547	539	527	529	525	521
4	483	483	495	529	563	574	573	534	524	508	504	491	485	480	464
5††	485	489	502	527	578	592	660	585	470	451	433	468	475	482	474
6	481	483	493	534	529	565	594	576	544	527	511	490	476	467	466
7	474	476	512	550	595	609	620	602	567	528	519	516	499	485	471
8	473	472	482	525	543	584	606	588	573	526	494	502	489	498	490
9	488	473	473	517	570	615	634	584	563	543	507	493	499	501	489
10	487	485	494	511	561	595	626	634	606	583	537	503	485	484	476
11	478	485	502	548	589	622	642	637	612	582	563	551	523	491	474
12††	482	462	452	465	497	534	543	519	488	447	462	449	433	411	401
13††	455	461	480	508	537	567	551	532	503	467	454	424	404	389	386
14	435	442	456	481	517	540	557	566	554	534	516	509	510	501	516
15	497	500	522	574	601	631	636	627	606	551	527	516	481	462	451
16†	468	467	478	502	530	595	608	607	582	554	535	523	517	510	498
17	488	485	502	555	602	656	613	602	609	521	463	491	499	489	459
18	475	481	502	529	564	626	623	603	559	559	524	502	496	465	457
19††	456	461	490	519	549	563	589	564	550	542	525	513	485	447	421
20††	492	485	499	527	586	629	653	619	622	574	541	526	506	491	473
21	475	482	503	518	598	622	619	599	564	527	517	513	520	512	492
22	474	457	460	484	546	593	604	593	554	528	505	489	496	495	476
23	485	482	485	513	603	626	658	654	597	547	509	512	510	490	467
24	475	471	488	543	614	638	651	608	574	556	527	517	500	497	486
25	468	464	493	518	584	643	682	637	575	531	515	503	499	474	442
26	494	492	516	548	621	661	672	676	639	621	601	571	515	508	497
27	468	477	486	532	568	599	622	623	603	572	531	527	526	514	498
28†	496	495	501	534	609	660	676	678	658	596	566	547	528	519	509
29†	486	490	506	545	585	651	659	653	635	598	574	560	547	531	517
30	510	507	523	572	639	683	699	668	662	593	549	557	531	494	452
31	457	455	484	528	563	630	594	567	543	532	520	516	517	507	493
Mean	470	470	496	529	578	615	626	606	576	543	521	512	502	489	475
Mean†	490	492	506	538	590	640	645	631	603	570	552	540	533	520	509
Mean††	474	472	481	509	549	577	589	564	527	496	483	476	461	444	432

†Five International quiet days.

††Five International disturbed days

△Loss of record, day omitted for means.

TABLE 9

Hourly Values of Horizontal Force, 1958

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

March

39,000 γ plus tabular quantities

Hours G M T										Maximum		Minimum		Range	Date		
15	16	17	18	19	20	21	22	23	Mean	Time	Mag.	Time	Mag.	Mag.			
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M	H	M	γ			
504	503	501	199	499	498	498	497	502	538	04	33	650	18	10	496	154	1†
511	505	505	504	508	506	508	511	511	536	04	51	657	17	50	500	157	2†
517	507	505	196	501	169	180	180	170	541	05	03	686	20	11	155	231	3
165	461	167	100	161	179	186	138	181	498	05	15	615	19	00	455	160	4
466	458	457	157	466	180	181	178	182	496	06	30	716	08	05	382	334	5††
450	161	459	160	477	171	183	180	175	199	05	15	646	11	57	415	201	6
471	483	181	171	172	178	169	170	175	512	05	58	651	13	51	466	185	7
486	186	186	185	486	181	190	190	185	509	05	57	629	11	56	468	161	8
475	471	178	186	187	497	198	198	191	514	05	30	651	01	56	167	184	9
476	172	169	173	171	171	176	173	175	511	07	10	611	17	14	159	185	10
472	165	111	121	436	161	158	168	175	517	06	30	616	18	18	421	225	11
429	433	127	139	433	439	137	449	161	158	05	21	579	13	50	398	181	12††
356	335	358	368	386	194	117	128	131	142	01	59	530	15	38	326	256	13††
482	455	469	171	471	175	186	185	189	497	07	08	570	16	12	426	144	14
440	133	133	110	156	166	166	168	167	510	06	28	670	16	19	429	211	15
495	490	490	481	474	482	183	487	487	511	05	25	627	18	36	463	164	16†
441	151	160	152	156	183	481	481	179	509	04	52	668	14	38	439	229	17
455	153	457	133	152	431	127	411	451	499	05	17	635	09	02	417	218	18
431	416	399	113	426	191	162	455	457	183	01	51	611	16	52	392	222	19††
449	453	166	161	169	182	504	178	172	519	06	18	686	15	15	416	240	20††
475	468	455	152	471	169	162	171	181	511	06	06	630	02	00	433	197	21
471	170	170	170	173	180	178	173	171	501	05	50	611	17	50	466	145	22
456	162	156	151	169	175	487	184	182	511	06	03	603	17	38	150	213	23
169	445	172	118	413	147	455	159	160	510	06	18	660	16	27	431	226	24
139	193	172	174	484	187	489	191	196	515	06	14	697	11	19	428	269	25
474	155	136	119	452	169	174	170	169	533	06	15	683	17	06	429	254	26
496	188	187	188	188	181	182	195	197	524	06	52	631	21	32	458	173	27
502	500	493	190	187	193	493	188	190	534	06	10	693	17	09	183	210	28†
513	510	502	502	509	504	501	196	503	515	06	18	675	22	08	483	192	29†
412	424	126	410	139	439	149	160	460	525	05	50	715	15	23	401	314	30
484	171	468	162	454	470	478	171	168	505	05	25	619	18	56	453	196	31
167	164	463	162	466	472	175	477	478	510						208	Mean	
505	502	498	196	495	197	497	196	499								Mean†	
426	419	421	428	436	453	460	158	461								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)

April

39,000 γ 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	479	478	493	534	570	601	613	602	570	545	528	527	526	506	485
2††	483	484	520	566	630	655	713	649	581	556	511	486	491	492	481
3	470	481	520	552	610	660	644	635	601	565	540	527	517	509	497
4††	484	489	534	588	663	687	702	657	642	574	540	529	528	496	496
5	462	458	476	535	571	599	587	582	556	540	497	483	479	476	457
6	457	456	480	527	611	660	671	647	605	553	517	500	511	498	492
7	487	485	495	529	585	600	601	622	605	531	514	498	500	485	468
8	470	469	478	514	567	648	684	680	641	588	543	517	515	513	499
9	484	483	496	540	600	627	650	654	627	597	570	546	529	518	411
10†	478	480	506	548	602	667	700	698	663	618	576	552	540	529	519
11†	516	516	531	576	634	680	695	685	654	603	559	545	545	534	521
12†	520	520	539	575	623	676	706	702	670	627	592	573	560	550	542
13†	515	519	545	571	651	686	704	689	638	605	581	566	560	552	542
14	514	516	537	573	639	661	673	676	654	631	583	540	547	537	519
15	485	503	532	599	612	615	654	631	594	536	523	523	510	498	487
16††	478	473	489	536	591	667	672	627	548	528	484	477	454	453	453
17††	481	470	475	486	549	558	572	578	545	510	509	508	504	485	459
18††	484	479	501	518	539	587	615	595	574	542	491	460	450	435	435
19	464	460	479	528	580	633	642	649	623	587	517	502	509	498	483
20	476	478	511	555	632	634	668	651	617	580	552	532	512	498	484
21	489	486	521	566	606	662	654	646	628	588	559	546	527	515	511
22†	492	483	490	547	614	647	654	619	605	569	536	518	518	513	503
23	492	500	526	573	624	662	667	658	612	591	574	559	537	519	503
24	490	491	508	557	591	606	595	582	548	520	503	497	497	486	479
25	494	506	539	580	604	649	655	642	624	595	564	543	537	528	515
26	508	514	546	590	618	685	688	666	633	601	575	566	556	543	539
27	497	507	530	573	616	651	661	642	615	597	583	568	554	535	522
28	484	484	512	555	592	597	616	619	602	565	517	502	482	468	448
29	470	471	499	535	545	586	572	558	558	526	517	498	472	473	472
30	478	475	495	552	611	642	657	618	605	559	552	523	509	494	483
Mean	486	487	510	553	604	640	653	639	608	571	540	527	516	505	490
Mean†	504	504	522	563	625	671	692	679	646	604	569	551	545	536	525
Mean††	482	479	504	539	594	631	655	621	578	542	507	492	485	472	465

†Five International quiet days

††Five International disturbed days

△ Loss 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)

April

39,000 γ 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	Mag	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
479	472	471	474	472	486	481	478	485	515	06 09	641	16 32	466	178	1
176	172	480	484	484	484	185	473	470	525	06 18	731	15 18	466	268	2††
491	194	498	496	492	488	492	499	489	532	04 50	671	20 34	183	191	3
459	441	431	418	413	424	434	432	407	522	06 03	723	18 10	103	320	4††
447	442	442	446	458	472	471	469	463	195	01 53	618	16 20	137	181	5
474	450	440	441	440	463	466	464	472	512	06 07	686	16 33	435	251	6
457	450	449	461	467	475	473	471	472	507	06 59	638	16 34	445	193	7
492	485	480	479	483	480	482	487	487	528	06 34	689	20 49	168	221	8
507	507	502	500	490	479	471	468	470	530	06 43	660	22 10	463	197	9
514	510	511	509	511	515	514	513	511	551	06 14	713	18 16	177	236	10|
518	519	517	518	518	522	525	522	519	561	06 24	701	17 08	515	186	11†
537	528	525	526	525	525	527	517	515	571	05 58	711	22 06	512	199	12†
534	530	525	523	521	514	515	517	516	567	06 47	710	20 22	513	197	13†
495	494	501	501	504	500	495	496	498	553	06 32	686	14 34	485	201	14
484	482	483	481	481	487	488	488	486	528	05 53	681	19 45	476	205	15
461	464	465	443	456	480	482	471	474	505	05 52	683	17 40	438	245	16††
471	463	441	430	472	460	455	460	466	493	05 36	599	18 26	420	179	17††
435	446	441	441	453	456	467	466	459	490	05 52	635	13 22	424	211	18††
470	456	461	467	475	483	475	473	474	516	06 54	658	16 09	448	210	19
480	480	481	485	489	484	489	495	496	532	06 00	686	15 20	475	211	20
500	487	493	484	484	487	488	497	496	538	05 33	674	16 12	481	193	21
498	497	497	496	496	497	498	496	492	532	05 23	665	18 54	480	185	22†
493	472	453	454	460	470	473	479	484	535	05 30	672	17 22	449	223	23
470	472	468	473	476	482	485	488	486	510	05 04	619	15 20	466	153	24
513	514	512	511	511	514	511	511	508	549	05 37	679	17 50	488	191	25
531	518	500	501	490	520	516	510	503	560	05 25	694	18 13	481	213	26
516	514	510	495	481	488	499	499	490	518	05 43	676	19 59	445	231	27
449	443	452	463	454	453	453	468	469	506	06 30	640	14 26	441	199	28
468	466	464	475	469	469	478	483	483	500	05 38	617	16 44	448	169	29
479	472	482	472	469	481	482	471	470	522	05 58	678	19 02	463	215	30
487	481	479	478	480	485	486	485	486	528					208	Mean
520	517	515	514	514	515	516	513	511							Mean†
460	457	452	443	456	456	465	460	471							Mean††

†Five International quiet days

††Five International disturbed days.

△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)

May

39,000 γ plus tabular quantities

Date	Hours GMT														
	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	472	468	497	535	585	617	628	632	610	560	539	518	506	494	489
2	481	482	514	567	630	664	665	632	574	543	528	515	513	509	498
3	480	488	518	572	628	664	674	655	612	572	537	526	531	527	515
4	485	493	522	580	649	653	644	641	590	537	515	515	522	516	509
5	495	495	527	567	601	663	687	679	645	609	574	556	545	531	519
6	491	482	501	551	638	697	698	693	650	603	561	542	529	521	509
7†	494	496	509	575	635	680	711	712	672	627	584	563	544	536	524
8	523	524	537	580	633	661	688	694	672	629	588	566	553	546	538
9	512	509	517	554	594	634	658	663	632	615	587	565	560	545	530
10	508	503	506	541	590	628	659	639	598	568	541	511	497	491	496
11	496	506	521	551	579	605	626	637	593	555	519	514	523	517	509
12	499	518	551	590	632	647	643	629	611	593	582	565	548	541	537
13††	503	497	516	586	606	603	598	595	575	562	548	519	503	481	486
14††	473	467	476	505	521	558	543	562	527	498	495	484	488	480	452
15	469	469	477	519	563	604	580	580	557	548	542	511	493	482	468
16	482	478	487	521	557	596	607	586	571	545	515	515	513	508	497
17	486	484	506	536	579	580	596	598	579	571	551	532	515	502	494
18	495	497	513	528	570	610	620	633	606	565	524	493	507	510	499
19	488	494	511	549	591	635	639	612	590	564	539	521	512	511	501
20†	496	507	529	556	593	621	638	632	625	596	556	534	524	518	514
21	502	509	518	552	583	603	636	641	618	594	563	544	532	524	518
22†	513	513	521	532	600	654	673	672	652	615	572	546	533	529	525
23†	523	529	540	565	598	624	649	649	632	610	581	560	545	541	532
24†	528	532	548	586	623	661	670	665	650	623	590	560	546	542	535
25	523	538	561	598	646	674	687	673	651	617	581	561	559	558	551
26††	521	511	519	525	563	617	658	657	633	592	542	510	475	462	440
27	477	491	514	547	579	611	624	617	589	548	528	507	484	489	492
28	476	479	495	524	570	612	652	637	608	576	535	518	512	501	494
29††	491	498	501	545	554	628	689	648	605	538	428	389	388	389	384
30	454	454	459	480	499	555	600	611	601	570	541	516	494	488	477
31††	485	484	493	513	549	571	585	596	572	545	508	489	483	472	470
Mean	494	497	513	549	592	627	643	638	610	577	545	525	515	509	500
Mean†	511	515	529	563	610	648	668	666	646	614	577	553	538	533	526
Mean††	495	491	501	535	559	595	615	612	582	547	504	478	467	457	448

†Five International quiet days

††Five International disturbed days

△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)

May

39,000 γ 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	Mag			
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M	γ	H	M	γ	γ	
485	483	173	486	490	490	484	478	481	521	07	07	643	01	02	466	177	1
494	489	487	485	483	490	482	481	484	529	05	46	687	19	00	479	208	2
559	509	507	507	501	502	499	496	493	543	06	11	680	00	04	479	201	3
503	502	501	501	499	499	494	489	496	536	04	22	663	21	52	482	181	4
513	512	509	505	493	498	493	502	495	551	06	02	693	19	22	486	207	5
500	501	500	499	498	497	496	496	494	518	06	14	706	20	06	481	225	6
522	519	517	514	516	519	515	519	523	564	06	41	724	00	12	492	232	7†
518	510	508	510	516	518	510	515	515	565	07	37	700	21	24	503	197	8
530	524	522	518	516	517	518	520	514	556	06	54	710	01	15	507	203	9
492	482	486	484	499	496	495	491	486	529	06	17	671	17	49	480	191	10
498	496	496	498	498	496	496	498	497	530	06	27	652	17	34	493	159	11
530	518	518	515	495	480	484	483	501	550	06	02	652	20	18	470	182	12
475	468	469	453	460	458	467	458	467	515	06	03	622	19	23	416	176	13††
464	461	458	455	481	477	472	471	470	490	05	07	595	14	02	441	154	14††
467	476	480	482	486	482	481	479	482	507	04	30	629	14	58	463	166	15
484	482	482	482	486	490	485	488	489	511	05	42	635	16	12	475	160	16
480	479	479	481	487	484	490	489	495	520	04	58	617	15	22	473	144	17
493	494	492	480	482	481	482	485	487	523	06	58	663	18	02	471	189	18
499	501	498	497	510	499	498	497	497	531	05	50	655	00	22	485	170	19
510	509	511	508	506	511	508	509	505	542	06	16	641	00	08	490	151	20†
517	512	513	515	515	515	516	513	513	515	07	17	647	00	05	497	150	21
525	524	520	523	526	523	525	526	527	557	06	10	678	01	07	508	170	22†
532	535	533	533	528	529	530	528	528	561	06	26	656	01	05	520	136	23†
528	527	526	525	528	528	528	529	528	567	05	34	675	23	50	522	153	24†
554	555	553	556	548	544	536	518	527	578	06	18	695	22	16	513	182	25
430	431	417	431	447	456	459	471	477	511	06	26	682	17	01	412	270	26††
486	486	483	474	483	471	468	475	478	517	05	53	642	20	32	465	177	27
491	483	485	485	487	484	485	487	488	523	06	19	671	00	36	461	210	28
389	388	405	408	415	430	442	444	444	477	05	56	718	10	38	362	356	29††
471	474	485	478	477	479	483	492	489	505	07	48	620	01	20	448	172	30
478	483	488	434	403	361	346	367	381	481	07	12	608	21	00	336	272	31††
496	494	494	491	492	490	489	490	492	532						191		Mean
523	523	521	521	521	522	521	522	522									Mean†
447	446	447	436	441	436	437	442	450									Mean††

| Five International quiet days
 †† Five International disturbed days.
 Δ 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)

June

39,000 γ 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††	355	371	407	436	459	544	567	548	533	522	481	459	455	454	448
2	455	474	480	510	571	593	575	587	582	562	539	513	461	440	428
3†	461	468	486	528	570	595	618	620	604	580	540	508	491	496	494
4†	495	504	531	571	615	633	656	647	633	609	581	557	540	529	519
5	511	508	513	548	601	643	649	660	648	629	584	559	539	532	528
6	522	525	535	561	605	659	663	673	648	596	573	556	544	537	532
7††	495	490	448	369	350	521	543	543	556	455	364	367	403	411	415
8	465	472	486	518	561	598	624	636	623	591	554	532	514	502	494
9	489	506	517	555	606	650	664	646	606	575	541	523	510	503	501
10	410	442	435	447	485	535	565	587	588	575	526	498	477	478	471
11	485	486	488	511	562	609	609	631	491	569	543	512	498	511	500
12	496	504	522	553	596	617	606	605	604	561	547	524	518	506	501
13	504	509	532	570	613	626	634	603	577	561	548	537	538	535	526
14	509	516	533	552	586	619	625	610	595	567	549	530	522	526	521
15	515	521	538	584	615	656	643	619	564	532	497	482	498	504	499
16	499	503	525	553	580	594	603	586	552	541	511	494	496	498	490
17†	502	514	530	561	602	629	630	614	594	571	543	528	523	524	522
18†	518	528	549	578	600	611	617	618	610	586	566	546	546	550	545
19	519	527	540	566	611	634	659	657	640	605	586	554	549	544	541
20†	533	543	547	567	605	626	638	624	585	559	558	555	553	549	538
21††	533	539	547	567	589	567	549	624	585	563	534	504	410	431	447
22	443	456	468	488	517	515	520	513	511	502	496	500	493	479	468
23	487	476	483	529	553	595	574	579	594	584	562	536	510	500	494
24	499	510	533	565	594	617	588	580	566	538	526	519	505	481	469
25	486	499	518	538	571	566	598	614	625	597	556	530	515	505	504
26	498	502	509	525	571	626	614	608	602	590	577	554	520	521	512
27	504	505	519	549	585	626	627	624	611	596	574	545	527	524	518
28††	502	513	548	587	627	634	620	619	574	551	549	519	516	522	518
29††	370	357	359	350	381	431	414	393	391	400	392	380	356	343	331
30	431	444	461	492	523	569	592	584	558	524	502	483	482	491	483
Mean	484	491	503	528	563	597	603	602	585	559	533	513	500	498	492
Mean†	502	511	529	561	598	617	632	625	605	581	558	539	531	530	524
Mean††	451	456	462	462	481	539	539	545	528	498	464	446	428	432	432

†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)

June

39,000 γ plus tabular quantities

Hours GMT									Mean	Maximum		Minimum		Range	Date		
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag	Mag			
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M	H	M	γ	γ		
446	451	451	437	460	454	444	446	444	461	05	40	683	00	22	335	348	1††
416	418	430	440	451	454	459	459	459	490	04	14	620	15	12	412	208	2
493	495	492	493	495	500	502	499	495	522	06	58	632	00	20	460	172	3†
515	515	515	513	514	517	516	516	516	552	06	13	661	00	20	465	196	4|
527	522	516	519	522	521	522	520	520	556	07	41	665	01	15	506	159	5
527	525	526	526	522	523	507	499	507	558	05	11	693	21	40	492	201	6
433	436	427	431	449	455	451	458	462	448	07	10	604	03	46	269	335	7††
490	495	501	490	494	498	494	490	486	526	07	17	639	00	01	464	175	8
498	492	488	506	510	501	514	495	476	536	06	06	672	23	59	448	224	9
472	469	460	472	468	472	475	382	490	493	07	25	605	02	43	411	194	10
498	494	485	496	500	501	495	489	492	522	06	56	660	01	10	479	181	11
500	496	497	498	494	498	499	502	503	531	05	22	631	19	20	491	140	12
522	521	518	516	512	514	509	506	506	543	06	06	649	00	20	502	147	13
518	518	518	519	532	516	527	515	511	543	06	28	631	22	48	505	126	14
491	493	498	497	494	496	495	494	495	530	05	22	761	10	45	476	285	15
496	495	495	495	493	497	500	504	501	521	06	08	616	13	45	488	128	16
519	519	518	516	519	522	522	522	518	544	05	22	638	00	02	501	137	17†
535	530	524	517	514	509	513	512	515	552	07	10	628	20	04	507	121	18†
536	539	533	519	524	522	526	526	528	567	06	15	664	17	39	517	147	19
538	537	533	534	535	533	536	531	536	558	06	02	643	22	12	517	126	20|
421	407	426	428	433	428	433	412	447	494	06	51	632	12	02	384	248	21|†
470	471	472	476	480	485	487	487	496	487	06	24	519	00	05	437	112	22
489	488	488	487	489	500	500	495	493	520	05	13	599	01	08	470	129	23
465	472	473	484	486	482	488	496	489	518	01	46	629	14	45	458	171	24
496	496	496	491	491	497	498	497	494	528	07	45	628	00	22	484	144	25
505	504	508	508	508	508	508	507	501	537	05	10	637	00	18	497	140	26
515	514	514	516	518	516	510	501	502	543	05	40	641	22	20	497	144	27
511	507	505	512	495	462	428	426	399	527	07	18	670	23	59	369	301	28||
308	311	339	362	380	398	413	416	423	375	05	28	453	15	10	301	152	29|†
480	486	483	481	476	478	481	480	476	457	06	15	601	00	01	429	172	30
488	487	488	490	492	492	492	491	489	519						182		Mean
520	519	516	515	515	516	518	516	516									Mean†
424	422	430	434	443	439	434	438	435									Mean†|

| Five International quiet days
 || Five International disturbed days
 Δ 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)

January

2000 γ plus tabular quantities

Date	Hours GMT															
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	
1†|	338	337	312	356	362	372	380	380	357	331	323	329	346	311	332	
2	343	351	348	350	357	350	350	378	322	310	316	327	322	335	317	
3|	348	350	350	353	347	339	338	336	326	316	317	319	326	336	339	
4†	319	351	352	350	343	326	321	316	314	314	308	320	331	337	339	
5†	316	317	317	317	315	319	319	339	337	323	320	327	331	337	338	
6	310	313	311	319	317	339	327	311	293	281	290	301	313	324	331	
7†	345	345	310	315	316	327	314	312	302	301	312	313	317	328	310	
8†	315	316	313	314	314	333	322	316	306	302	309	316	321	320	335	
9	311	316	311	313	336	318	312	295	302	313	320	318	318	325	328	
10	336	340	352	316	338	317	306	295	293	295	307	318	321	323	321	
11	338	341	338	333	328	307	292	290	284	300	320	331	335	336	336	
12	310	346	311	340	338	314	303	315	313	312	309	313	318	328	332	
13	337	317	317	315	329	319	317	309	314	310	315	322	328	331	337	
14	340	341	342	340	329	301	286	279	273	276	293	321	326	334	339	
15	339	342	347	348	333	314	283	271	271	285	271	329	348	325	323	
16	341	311	317	341	338	333	317	306	298	290	291	311	326	321	339	
17††	310	315	351	353	339	319	295	277	272	273	283	297	319	334	341	
18††	342	310	339	346	342	326	316	295	281	284	291	317	329	329	334	
19	346	350	316	317	320	308	308	307	307	307	307	307	314	324	348	
20	348	348	343	345	343	321	314	299	296	299	317	325	322	332	339	
21††	331	316	334	323	319	331	331	331	331	327	327	306	337	310	316	
22	346	318	342	335	329	304	281	281	292	305	317	323	317	318	320	
23††	341	349	352	352	350	334	322	329	310	338	332	331	325	321	339	
24	315	349	345	342	332	325	309	301	302	309	316	320	315	324	338	
25	315	346	340	339	332	326	312	287	276	277	294	319	322	331	318	
26	348	350	353	319	312	322	297	286	303	320	329	320	327	329	331	
27	343	312	310	330	317	309	314	308	303	315	330	332	329	335	339	
28	314	343	352	361	369	337	326	329	331	331	327	325	326	329	334	
29	312	313	351	360	352	329	312	304	305	311	314	320	329	330	332	
30	310	346	348	358	361	319	302	293	287	297	302	310	320	327	331	
31	342	350	349	343	339	326	310	305	303	308	309	323	332	333	339	
Mean	342	346	346	346	340	326	315	308	304	305	310	320	326	330	334	
Mean|	347	348	346	348	343	335	329	324	317	312	313	319	326	333	336	
Mean††	338	343	344	346	342	336	329	322	316	311	311	320	331	334	338	

|Five International quiet days
 ††Five International disturbed days.
 ΔLoss 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)

January

2000 γ 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	Mag	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
338	317	350	339	335	338	318	350	346	317	06 23	387	10 20	318	69	1††
338	316	348	349	318	346	346	345	315	340	04 00	357	08 50	307	50	2
339	310	341	316	346	316	345	347	319	339	02 45	353	09 00	315	38	3†
339	340	313	344	345	345	315	347	349	336	01 08	355	10 00	308	47	4†
338	310	338	314	346	343	314	343	313	339	05 56	351	09 30	316	38	5†
335	336	337	340	343	344	345	340	341	329	03 00	349	09 15	282	67	6
337	338	338	338	339	340	340	340	340	330	00 01	317	08 05	300	47	7†
338	338	339	339	311	341	341	341	311	332	01 07	349	08 30	299	50	8†
325	332	338	339	318	316	314	339	338	329	18 50	350	07 05	293	57	9
333	339	337	339	311	339	339	339	338	307	02 38	353	08 00	293	60	10
338	317	339	316	331	330	338	341	311	327	01 03	347	07 30	285	62	11
338	338	338	341	311	338	311	338	338	330	01 09	352	06 00	300	52	12
338	337	341	341	311	310	342	337	337	332	01 08	352	07 20	307	45	13
339	338	339	311	316	345	344	341	339	325	21 20	347	08 30	270	77	14
337	342	342	312	345	347	316	310	340	325	02 45	349	06 35	270	79	15
339	338	340	310	312	312	339	338	341	330	01 26	348	09 00	290	58	16
339	310	340	341	341	311	346	340	334	325	02 30	354	08 45	271	83	17††
339	339	342	313	352	353	350	345	342	330	18 58	355	08 00	277	78	18††
331	339	338	310	349	345	342	342	317	330	01 06	353	07 30	305	48	19
334	348	312	340	312	312	341	345	331	331	21 50	354	07 30	295	59	20
311	341	316	312	340	311	318	316	345	336	01 00	349	03 45	317	32	21††
338	346	346	316	342	318	315	310	341	327	19 35	350	06 00	280	70	22
338	339	338	348	348	311	310	342	343	339	18 30	354	06 08	319	35	23††
338	342	311	313	315	312	341	341	312	331	01 09	352	07 00	301	51	24
323	331	327	338	316	343	346	341	343	325	23 59	348	08 30	274	71	25
337	334	338	338	312	348	346	310	340	332	02 00	353	07 02	280	73	26
337	331	331	339	342	311	342	341	349	331	23 00	349	08 00	302	47	27
332	337	310	338	340	310	341	312	342	338	03 15	369	09 30	324	45	28
332	329	331	337	343	348	345	341	339	333	02 50	362	07 15	303	59	29
332	333	338	339	338	338	340	341	341	328	03 15	367	07 52	280	87	30
338	338	335	339	310	340	341	341	341	332	01 15	353	07 30	301	52	31
336	339	310	341	343	343	343	342	342	332					58	Mean
338	339	340	342	343	343	343	344	314							Mean†
339	341	343	313	343	343	346	345	342							Mean††

†Five International quiet days.

††Five International disturbed days.

Δ 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)

February

2000 γ 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	313	344	312	316	338	320	318	321	319	320	326	327	321	327	334
2	343	348	353	351	344	333	326	320	320	326	321	318	323	332	335
3†	313	313	338	342	343	344	342	342	343	344	335	331	332	333	339
4	311	351	317	351	351	347	342	350	347	332	319	318	321	310	339
5	338	334	313	330	330	330	328	340	340	335	328	319	321	326	342
6††	312	338	328	330	319	310	315	321	328	340	340	324	326	315	336
7	314	341	342	340	331	305	306	317	326	332	342	330	320	312	341
8	313	343	347	341	311	287	286	287	307	322	342	350	332	332	339
9	341	341	338	331	321	291	294	306	325	347	348	346	338	339	339
10	310	315	338	323	305	291	290	294	307	321	329	332	332	320	330
11††	346	340	308	372	340	312	Δ	Δ	Δ	Δ	278	296	312	315	352
12††	358	346	315	337	330	323	311	315	310	315	313	315	327	335	339
13	313	348	336	321	314	297	291	292	301	311	315	320	320	323	330
14	339	315	351	349	314	328	313	301	299	293	305	314	318	323	327
15†	342	314	316	352	358	356	315	339	334	328	326	325	326	328	357
16	311	315	342	333	320	315	321	318	318	323	328	326	318	316	325
17††	315	346	343	346	312	309	315	348	350	357	333	315	318	320	311
18††	314	337	329	324	319	322	327	315	319	313	321	317	321	330	336
19	337	337	329	325	321	318	322	328	347	350	334	319	313	325	332
20	337	336	313	330	327	319	322	325	326	328	332	334	330	327	326
21	337	337	337	328	324	303	302	312	327	330	334	327	317	325	325
22	337	312	344	337	321	306	299	305	310	313	314	315	313	324	333
23	330	336	337	329	313	302	294	293	296	299	309	311	324	318	333
24†	337	313	316	340	325	312	305	302	298	301	303	309	329	327	333
25†	340	343	317	333	321	319	305	311	317	314	314	315	323	326	331
26†	311	314	313	314	336	324	320	312	318	320	321	319	321	326	332
27	331	342	340	337	326	316	314	309	312	321	324	319	317	323	326
28	336	340	335	331	327	312	312	314	329	334	342	325	318	332	332
Mean	311	342	340	336	327	316	314	317	322	326	326	323	323	328	333
Mean†	341	343	342	342	337	331	323	321	322	321	320	320	326	327	334
Mean††	315	342	336	332	320	316	322	330	334	339	327	318	323	330	331

†Five International quiet days
 ††Five International disturbed days
 Δ 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)

February

2000 γ 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	Mag	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
335	338	339	341	342	343	343	341	342	334	02 45	347	05 35	317	30	1
338	341	341	342	344	342	342	343	344	336	02 00	353	11 00	318	35	2
340	341	341	343	346	349	349	343	341	311	19 30	350	11 20	330	20	3†
322	322	339	346	343	338	332	339	340	338	07 15	353	10 30	312	41	4
341	339	340	342	350	354	339	332	340	336	19 48	361	12 25	317	44	5
342	333	341	356	353	351	349	354	350	336	17 55	358	05 40	308	50	6††
336	338	343	343	350	354	350	344	342	335	20 05	356	05 22	301	55	7
331	330	319	347	346	347	350	341	343	332	20 50	352	06 00	286	66	8
337	330	329	339	351	348	339	339	339	333	19 08	353	05 30	293	60	9
325	320	335	337	333	344	332	339	338	325	21 54	346	05 30	285	61	10
355	361	381	374	358	343	352	347	352	Δ	Δ	Δ	Δ	Δ	Δ	11††
337	344	344	346	339	344	342	343	337	333	18 14	359	07 30	292	67	12||
337	338	333	343	345	348	342	341	341	326	18 20	351	06 00	291	60	13
335	337	338	334	343	342	339	339	342	329	02 03	352	09 00	293	59	14
334	335	344	339	330	338	336	336	337	339	04 15	359	10 38	322	37	15†
325	327	342	341	337	338	336	336	345	330	16 50	353	05 00	315	38	16
333	342	341	343	337	347	345	335	337	335	08 30	363	04 38	300	63	17††
335	336	335	337	344	344	336	341	337	333	08 25	351	10 43	313	38	18|†
337	335	336	340	336	340	347	340	335	333	08 22	351	11 40	312	39	19
325	340	343	338	335	337	348	341	345	333	20 46	349	05 41	312	37	20
326	336	341	340	344	337	345	350	343	330	21 56	358	05 25	294	64	21
328	330	336	344	338	336	343	343	341	327	18 12	347	06 03	292	55	22
332	335	336	335	333	335	337	337	336	323	21 22	342	06 52	291	51	23
333	334	335	340	339	336	336	336	337	327	02 00	346	07 50	297	49	24†
332	332	334	335	336	335	335	336	339	328	01 05	346	06 01	302	44	25|
333	333	334	335	335	335	335	334	335	330	01 05	347	07 06	309	38	26†
331	332	332	333	332	328	334	337	336	327	01 08	344	07 00	309	35	27
333	333	334	341	341	339	337	336	336	331	09 52	343	05 45	311	32	28
333	334	338	341	341	342	341	340	340	332	.	.	.	47	Mean	
334	335	338	338	339	339	338	337	338	.	.	.	.	.	Mean†	
337	337	340	345	343	347	343	343	340	..	.	.	.	.	Mean††	

†Five International quiet days.

††Five International disturbed days.

Δ 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)

March

2000 γ 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
17	334	341	337	339	336	323	316	312	310	308	310	315	322	322	224
2†	336	336	331	323	312	307	307	308	315	320	320	313	324	325	331
3	339	338	331	323	316	305	296	305	310	312	327	313	317	325	333
4	339	338	333	342	338	324	320	332	311	336	332	324	323	331	333
5††	342	315	313	311	342	335	335	301	333	343	342	342	331	335	341
6	339	338	331	332	332	331	323	323	331	310	340	329	322	323	334
7	339	342	349	345	332	319	308	300	301	307	322	324	323	322	324
8	342	346	348	346	347	324	310	308	307	307	315	317	325	232	333
9	338	341	352	346	340	323	305	296	307	300	307	306	317	329	328
10	339	341	343	341	331	329	322	321	307	305	301	307	317	328	333
11	343	345	341	339	332	328	321	321	316	321	320	317	315	317	321
12††	344	342	330	322	324	309	297	305	307	316	319	310	319	320	329
13††	338	344	344	341	328	318	306	305	303	308	308	309	315	321	329
14	344	349	344	344	345	339	331	321	318	318	320	320	327	330	342
15	343	344	342	311	319	306	298	283	282	285	308	308	312	322	327
16†	341	344	342	330	316	308	297	292	293	297	305	308	319	328	332
17	339	339	340	344	333	320	302	305	307	301	325	331	328	330	324
18	340	343	337	330	317	310	297	284	290	293	298	309	319	322	330
19††	343	343	343	339	338	323	310	311	322	323	321	317	316	317	321
20††	353	340	339	332	330	322	310	305	294	298	309	320	323	329	330
21	338	343	340	331	321	315	313	313	314	309	311	317	329	333	332
22	343	343	349	341	332	322	310	309	314	319	318	321	329	333	332
23	347	346	348	352	341	325	310	307	308	314	324	329	324	331	332
24	345	346	347	310	323	310	304	301	304	306	310	318	319	332	334
25	347	348	358	352	341	324	304	285	287	307	311	311	322	323	323
26	347	348	346	345	310	326	318	310	307	304	303	306	307	323	331
27	344	354	364	366	357	347	344	330	317	310	315	327	330	333	335
28†	344	347	356	360	355	342	322	311	306	300	311	317	324	333	334
29†	344	353	357	356	352	332	330	307	310	314	322	326	330	334	338
30	350	357	356	354	345	330	311	303	300	294	317	318	319	322	318
31	315	347	341	344	345	333	319	322	324	332	323	329	331	338	340
Mean	342	344	344	341	334	323	313	308	309	311	317	318	322	327	331
Mean†	340	344	345	342	334	322	314	306	302	308	314	316	324	328	332
Mean††	344	343	340	335	332	321	312	306	317	318	320	320	321	324	335

†Five International quiet days

††Five International disturbed days.

Δ 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)

Match

2000 γ plus tabular quantities

Hours GMT									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag	Mag	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
326	331	333	333	333	333	332	332	335	326	01 04	344	09 18	305	39	11
331	332	333	331	334	334	335	335	335	325	01 08	340	06 30	302	38	21
333	334	335	336	335	333	339	334	334	325	20 42	345	06 25	295	50	3
335	339	343	341	342	347	345	343	342	336	20 00	347	06 03	315	32	4
339	339	339	343	345	347	343	342	342	339	08 15	356	07 07	289	67	51
330	340	339	341	347	344	346	342	335	335	21 23	353	06 14	319	34	6
332	340	338	335	337	342	334	335	342	329	02 15	352	07 23	292	60	7
333	334	339	339	340	339	331	341	337	331	01 10	350	08 40	300	50	8
326	331	336	339	341	343	340	339	339	328	02 00	354	06 42	294	60	9
333	332	330	341	338	340	340	339	339	329	18 10	346	09 30	300	46	10
329	328	321	325	336	345	340	344	344	330	00 25	352	11 42	313	39	11
340	340	338	343	338	339	333	342	343	327	00 01	345	06 10	292	53	12
323	321	339	341	313	313	346	341	344	328	01 25	351	07 48	300	51	13
328	320	332	342	342	311	343	341	341	334	13 42	351	08 00	318	33	14
329	331	337	339	341	341	342	342	341	324	01 00	346	06 56	263	83	15
333	336	337	333	335	339	339	339	339	324	00 52	349	07 02	290	59	16
328	338	342	338	333	350	340	340	340	330	19 50	351	08 34	297	57	17
333	339	340	335	343	338	332	343	340	323	21 30	348	07 00	282	60	18
333	331	329	341	341	356	345	339	337	331	20 15	360	06 28	306	54	19
328	347	345	343	345	346	352	337	333	330	18 35	356	08 30	288	68	20
331	333	333	340	317	343	341	346	345	330	19 02	349	08 28	306	43	21
334	340	342	342	345	344	344	344	344	333	02 05	352	07 00	308	44	22
332	344	341	342	350	349	353	346	345	335	20 40	355	06 50	306	49	23
334	329	345	335	338	344	344	346	345	329	17 05	354	06 54	300	54	24
333	357	345	346	354	354	353	349	348	332	15 46	372	07 20	281	91	25
330	330	326	341	311	346	347	345	345	330	20 32	352	09 30	301	51	26
338	340	341	341	345	342	344	347	346	340	03 00	367	09 00	309	58	27
335	338	335	342	342	344	345	344	344	335	02 45	364	08 45	297	67	28
338	341	311	312	345	341	345	344	345	337	01 45	361	07 15	306	55	29
312	333	339	345	344	342	344	348	346	331	01 00	359	08 56	286	73	30
340	338	341	341	340	346	317	345	344	338	01 00	348	05 42	317	31	31
332	336	338	340	342	343	342	342	341	331					53	Mean
333	336	336	337	338	339	339	339	340							Mean†
333	336	338	342	313	346	344	341	340							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)

April

2000 γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	346	350	355	359	345	329	317	300	305	309	316	322	325	333	336
2††	345	348	348	342	324	320	309	293	302	308	310	310	325	333	333
3	342	351	353	350	340	329	309	307	306	307	310	316	321	331	331
4††	342	345	342	332	329	316	308	305	304	306	313	320	327	322	322
5	350	344	338	333	322	306	293	289	293	305	313	313	325	325	330
6	342	351	353	343	337	336	308	303	292	303	307	319	330	329	330
7	350	351	356	356	352	340	332	317	299	306	314	318	322	327	328
8	341	348	357	360	356	344	326	314	306	314	325	329	342	329	330
9	343	348	350	350	343	333	318	313	321	309	315	320	327	332	332
10†	342	347	341	334	326	315	301	295	296	300	303	309	315	324	326
11†	340	346	345	340	337	326	303	293	300	308	316	320	323	325	325
12†	339	347	342	337	324	309	293	287	293	301	310	316	322	326	327
13†	337	347	343	336	325	312	299	287	294	309	315	318	323	329	325
14	341	345	343	339	336	320	303	291	290	299	301	302	321	325	322
15	343	354	348	335	313	314	300	291	287	299	320	328	330	330	329
16††	338	344	340	334	323	305	281	262	278	299	306	313	314	320	324
17††	346	347	350	345	333	323	315	308	297	310	324	329	329	329	321
18††	343	343	335	323	320	319	303	292	295	294	306	312	322	330	330
19	343	344	342	336	331	329	298	295	293	291	306	320	333	332	328
20	341	343	341	331	319	297	288	281	293	306	319	321	329	331	328
21	340	345	344	336	332	324	310	302	298	298	305	311	317	316	328
22†	334	340	338	332	328	318	303	297	303	305	309	319	328	330	328
23	339	344	343	335	325	315	310	308	303	308	309	316	318	326	325
24	341	346	339	333	320	307	307	304	307	317	324	329	330	329	330
25	341	348	341	335	339	326	314	295	294	292	296	303	316	329	327
26	340	343	347	347	339	335	308	299	297	304	316	332	327	330	330
27	339	346	334	332	330	320	310	300	294	303	312	319	322	325	325
28	338	340	337	325	316	308	304	303	301	304	315	317	317	324	325
29	342	345	341	338	330	308	293	293	293	297	303	306	308	327	332
30	339	343	346	340	330	315	296	291	294	294	300	307	325	327	327
Mean	342	346	344	339	331	320	305	297	298	303	311	317	324	327	328
Mean†	338	345	342	336	328	316	300	292	297	305	311	316	322	327	326
Mean††	343	345	343	335	326	317	303	292	295	303	312	317	323	327	327

†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)

April

2000 γ 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	Mag			
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H.	M.	γ	H.	M.	γ	γ	
337	340	343	345	345	349	343	343	341	335	02	50	362	07	15	298	64	1
338	340	343	344	344	344	344	340	342	330	01	00	349	07	20	286	63	2††
332	340	342	342	342	342	342	341	340	332	01	30	355	08	30	305	50	3
330	331	331	332	338	342	349	343	357	320	22	50	359	08	15	303	56	4††
331	337	340	340	343	349	342	342	342	312	19	56	352	06	11	288	61	5
330	328	329	337	338	350	344	342	348	330	01	22	357	08	12	288	69	6
330	332	337	341	344	348	342	341	341	331	03	00	359	08	05	296	63	7
335	337	337	349	341	342	342	347	310	337	03	00	362	08	00	305	57	8
334	338	338	339	338	331	335	336	348	333	02	18	351	08	15	308	63	9
331	335	337	337	338	339	339	339	338	325	01	00	349	07	00	294	55	10†
327	335	337	338	339	339	341	339	338	328	01	02	348	07	10	290	58	11†
330	332	334	334	336	336	338	336	336	324	01	00	348	07	00	286	62	12†
331	333	335	335	336	335	336	337	338	326	00	55	340	07	25	284	65	13†
322	332	338	339	340	337	347	338	338	325	01	24	346	07	12	288	58	14
331	334	336	337	337	310	342	337	337	327	00	50	355	07	15	284	71	15
335	341	335	334	342	346	344	335	342	322	19	15	352	07	04	258	91	16††
336	336	333	333	347	341	338	342	353	332	19	05	359	08	08	293	66	17††
335	343	341	341	344	343	344	343	330	327	16	02	346	09	02	291	55	18††
328	329	335	337	342	343	341	339	339	327	19	10	345	09	30	290	55	19
328	333	340	342	342	339	341	343	340	326	21	45	345	06	55	276	69	20
328	328	331	332	333	339	339	341	339	326	01	00	348	09	00	297	51	21
330	332	333	338	338	339	340	333	335	326	01	15	342	06	35	294	48	22†
227	326	325	329	335	339	339	340	341	326	01	00	345	07	12	302	43	23
329	332	332	339	340	340	341	340	339	329	01	00	348	06	30	303	45	24
329	331	332	332	335	338	337	338	338	329	00	45	349	08	30	291	58	25
330	329	329	332	330	345	340	334	338	329	02	00	348	08	00	296	52	26
329	331	332	331	330	335	342	338	331	326	00	10	348	07	50	291	57	27
327	333	338	343	338	337	337	343	312	325	22	12	350	07	50	297	53	28
332	338	339	341	338	338	341	341	339	325	00	35	347	06	35	289	58	29
330	331	337	332	333	340	340	337	340	325	01	30	348	06	18	286	62	30
331	334	336	337	339	341	341	343	341	328						59		Mean
330	333	335	336	337	338	339	337	337									Mean †
335	338	337	337	343	343	344	341	346									Mean††

†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)

May

2000 γ 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	341	349	350	340	330	315	303	295	293	292	306	319	328	329	328
2	339	352	360	354	338	317	303	294	305	317	324	328	330	329	328
3	340	355	361	356	330	308	295	284	281	293	310	317	325	328	328
4	340	354	356	352	331	310	306	295	295	306	318	322	325	328	323
5	339	349	345	338	322	303	292	284	283	291	306	318	329	331	328
6	337	347	353	347	330	299	279	272	278	285	296	306	315	326	328
7†	340	349	354	352	338	324	310	298	291	299	306	317	326	329	328
8	340	347	345	339	334	318	308	305	306	303	306	315	319	329	328
9	338	342	351	351	351	341	332	321	311	310	316	326	334	331	328
10	339	342	356	352	349	322	312	302	295	307	308	316	324	326	330
11	342	349	351	351	339	324	315	300	293	295	307	324	328	330	330
12	342	345	336	326	314	306	305	301	299	300	302	308	323	328	329
13††	342	342	339	336	326	317	315	310	299	311	315	316	325	328	333
14††	348	351	352	336	315	319	313	314	315	330	338	341	344	339	330
15	346	351	352	340	328	303	294	308	319	326	322	325	329	330	329
16	342	347	351	349	346	338	329	328	329	319	325	330	336	336	336
17	342	351	351	345	336	334	331	329	328	328	325	329	330	331	331
18	349	351	352	347	345	330	325	317	315	317	314	326	337	339	331
19	342	349	351	350	339	324	302	304	317	321	327	330	332	336	333
20 |	341	346	345	343	3 9	318	317	312	307	310	322	328	331	335	332
21	344	353	356	351	341	332	324	316	316	324	330	337	339	338	338
22†	344	353	358	355	340	327	315	307	310	318	325	329	329	330	331
23†	311	344	343	340	331	328	329	324	327	327	331	337	331	335	335
24†	346	351	352	350	343	327	323	324	326	320	315	324	327	331	332
25	345	350	347	343	335	324	324	324	324	321	326	334	337	335	335
26††	345	344	338	335	336	327	327	315	305	304	314	316	323	332	331
27	349	347	342	335	326	315	306	302	303	314	325	318	323	335	337
28	348	349	346	341	328	313	304	293	299	316	328	335	337	337	336
29††	349	358	341	330	313	304	290	273	260	259	280	305	326	333	334
30	356	358	353	350	353	350	334	311	303	310	316	319	323	328	330
31††	344	349	351	349	349	345	345	334	331	330	337	337	336	338	336
Mean	343	349	350	345	334	322	313	306	305	310	317	324	329	332	331
Mean†	343	349	350	348	336	325	319	313	313	315	320	327	329	332	332
Mean††	346	349	345	337	328	322	318	309	302	307	317	323	331	334	333

†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)

May

2000 γ plus tabular quantities

Hours G T M									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag	Mag	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
329	333	331	338	339	339	338	337	341	327	01 25	352	08 30	291	61	1
330	331	336	337	337	339	336	337	339	331	02 05	362	07 15	293	69	2
331	331	333	336	337	338	337	337	336	326	02 02	362	07 52	279	83	3
330	331	336	337	338	338	338	336	340	329	02 00	359	07 44	293	66	4
329	331	331	337	333	340	338	342	337	324	01 15	352	08 00	281	71	5
328	330	332	336	337	337	338	338	338	321	02 08	355	07 15	271	84	6
329	331	336	337	338	339	338	340	340	329	02 08	356	07 48	293	63	7†
326	328	331	336	339	340	339	331	339	328	01 51	348	09 10	299	19	8
330	331	333	336	337	338	339	340	337	333	02 10	353	07 50	302	51	9
331	330	338	338	344	338	338	339	338	331	02 14	365	07 45	291	71	10
328	332	337	338	337	336	339	340	340	329	02 00	351	08 00	293	58	11
330	330	336	336	330	330	338	337	345	324	00 10	346	08 00	299	47	12
333	336	339	336	331	339	346	339	341	329	03 58	319	08 05	295	51	13††
340	339	339	341	351	344	340	340	340	336	01 25	356	06 00	310	46	14††
332	341	341	341	341	337	338	338	341	331	01 30	354	05 34	291	63	15
331	337	338	338	339	340	339	339	341	337	02 30	352	09 12	316	36	16
329	337	339	341	346	341	342	341	346	337	01 00	351	10 00	323	28	17
332	339	339	333	338	338	339	342	342	335	02 00	352	07 20	308	14	18
335	337	338	338	341	338	339	340	340	334	02 00	351	06 10	291	57	19
335	337	339	337	337	340	338	339	339	332	00 52	347	08 00	307	40	20†
336	339	340	341	341	343	343	343	343	338	02 00	356	07 45	315	41	21
335	339	339	331	341	344	344	345	344	335	02 15	360	07 00	307	53	22†
338	339	340	310	340	343	343	343	341	337	23 59	346	07 00	321	22	23†
332	336	339	339	340	340	340	340	342	331	01 22	353	10 00	314	39	24†
338	339	342	317	344	344	343	340	341	337	00 55	352	05 30	320	32	25
329	335	337	346	350	350	349	350	350	333	22 10	352	08 55	300	52	26††
337	341	341	339	344	338	339	346	345	331	23 35	350	06 45	299	51	27
336	337	339	341	344	342	344	344	341	333	01 00	349	07 05	291	58	28
339	344	349	348	348	350	351	351	353	325	01 07	360	09 00	254	106	29††
333	337	344	342	341	343	343	349	341	336	00 58	361	08 20	302	59	30
311	345	350	337	329	322	326	339	353	340	16 58	370	18 15	319	51	31††
333	336	338	339	340	310	340	341	342	332					55	Mean
334	336	339	339	339	341	341	341	342							Mean†
336	340	343	342	344	311	342	341	347							Mean††

† Five International quiet days
 †† Five International disturbed days
 \ 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)

June

2000 γ 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 †	344	361	362	348	343	341	327	330	326	325	327	330	333	336	335
2	351	356	350	350	335	313	297	292	297	301	303	313	312	326	328
3 †	350	355	361	364	361	345	333	325	324	320	325	327	334	337	337
4 †	347	355	363	362	352	336	327	309	309	313	315	315	324	334	335
5	343	350	359	359	344	325	317	314	305	309	322	325	330	334	335
6	347	350	358	359	357	349	333	327	311	314	318	322	330	336	335
7 † †	338	356	358	370	379	367	348	346	316	301	321	347	343	336	339
8	349	351	347	347	343	344	320	301	296	298	308	314	324	331	331
9	347	359	357	341	324	314	303	291	298	300	305	319	323	328	334
10	333	340	344	347	336	321	311	302	291	289	289	305	323	334	334
11	342	351	356	352	344	343	342	324	314	320	323	328	335	337	334
12	344	350	346	342	331	312	302	297	292	303	310	305	312	325	332
13	343	346	346	335	323	313	313	320	325	325	326	331	331	333	333
14	343	347	343	333	321	308	296	300	312	312	313	321	325	332	333
15	344	344	343	333	323	326	331	331	331	327	329	334	336	331	331
16	344	341	343	337	334	327	323	314	318	321	314	319	325	334	335
17 †	347	352	351	349	335	325	323	323	324	326	333	334	336	337	337
18 †	346	342	348	342	332	328	340	341	335	335	335	334	335	339	337
19	347	354	349	342	334	337	335	325	321	324	326	325	332	333	334
20 †	346	348	344	346	343	335	324	326	334	339	337	332	331	336	334
21 † †	344	346	336	333	334	325	333	337	335	326	340	313	309	334	336
22	355	363	356	347	332	332	326	324	325	325	325	324	332	336	335
23	344	349	354	347	334	325	312	312	313	316	324	328	335	336	335
24	346	348	344	337	325	321	320	309	305	324	327	334	334	328	334
25	346	352	351	349	349	343	344	336	332	321	320	326	332	335	336
26	348	354	349	342	334	331	323	319	322	322	320	317	323	332	335
27	347	351	350	343	330	322	308	305	303	308	308	311	324	333	334
28 † †	346	353	353	346	325	309	302	305	315	334	334	334	334	335	336
29 † †	334	346	357	346	327	319	317	311	312	311	312	322	324	335	335
30	356	358	361	358	346	323	309	307	312	323	333	341	341	335	335
Mean	345	351	351	347	338	329	321	318	315	317	321	324	329	334	334
Mean †	347	350	353	353	345	334	329	325	325	327	329	328	332	337	336
Mean † †	341	352	353	349	342	332	325	326	321	319	327	329	329	335	336

† 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)

June

2000 γ plus tabular quantities

Hours G M T									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	M _W	T _M	M _W	Mag	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	H M	γ	γ		
337	342	341	342	351	345	342	344	344	340	01 20	05 58	311	3	11	
332	337	341	347	350	348	347	347	347	330	01 00	07 24	289	67	2	
338	338	342	343	344	347	345	344	343	341	03 10	08 35	319	49	3†	
336	338	343	343	341	344	343	343	343	336	02 08	07 51	305	9	1†	
336	340	336	338	341	342	342	343	344	335	02 15	08 12	301	9	1	
335	337	338	342	341	343	337	338	333	338	02 30	08 05	305	51	6	
346	344	342	344	348	348	347	347	349	345	01 05	06 56	268	85	7††	
332	336	341	342	340	343	339	343	340	332	00 33	08 30	294	61	8	
334	334	335	347	347	343	343	337	330	329	06 32	07 00	280	73	9	
335	336	337	340	347	339	342	344	346	327	02 55	09 30	207	64	10	
335	337	337	342	343	342	340	337	337	337	02 42	08 10	312	47	11	
344	335	337	339	337	339	337	341	342	327	00 45	08 00	291	60	12	
333	334	336	337	335	337	336	336	337	332	00 30	05 18	311	36	13	
333	335	336	337	346	337	346	336	340	329	00 45	06 50	295	53	14	
331	335	337	337	336	337	337	340	342	331	01 30	04 55	320	26	15	
337	341	342	343	343	343	344	344	346	334	03 58	07 00	313	35	16	
317	337	341	342	343	344	344	343	343	338	01 08	06 00	322	32	17†	
335	337	340	342	342	343	343	344	346	339	00 50	04 45	326	28	18†	
335	337	341	335	343	343	346	343	343	337	01 00	08 08	319	38	19	
336	337	340	342	344	343	343	342	341	339	00 45	06 25	323	26	20†	
331	334	346	346	349	346	349	355	356	337	01 31	11 10	291	63	21††	
336	339	341	343	344	347	346	346	351	339	01 12	07 00	323	12	22	
334	336	339	340	343	346	341	344	342	335	02 00	06 10	311	13	23	
334	342	346	348	347	347	349	349	346	335	21 30	08 00	302	46	24	
336	337	341	339	340	343	342	343	343	330	00 56	10 00	319	35	25	
335	336	341	342	345	345	345	345	345	335	00 45	10 15	315	40	26	
334	339	340	342	345	345	345	343	346	331	00 35	08 20	303	51	27	
336	341	343	350	345	334	328	343	336	334	18 21	03 54	301	76	28††	
332	334	346	353	355	357	358	355	356	336	21 00	07 34	307	51	29††	
335	344	344	344	342	345	346	346	347	339	02 05	06 34	306	56	30	
335	337	341	342	344	343	343	303	344	335				50	Mean	
336	337	341	343	343	344	344	343	344						Mean †	
336	339	344	347	350	346	345	349	348						Mean ††	

†Five International quiet days

††Five International disturbed days

ΔLoss of record, day omitted for means.

TABLE 19
PRINCIPAL MAGNETIC STORMS
January to June, 1958

Observatory	Greenwich date	Storm Time		Sudden commencements			C-figure 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 hr index	K index	D	H	Z	
					D	H								Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1958	II	M	D	H	'	γ	γ				'	γ	γ
Astrophysical Observatory, Kodakmal	February	11	01 21	12 13	S C	3	80	35	s	11		20	813	316
	March	5	15 39	05 10	S C	1	13	12	ms	5		7	340	66
	March	14	12 12	15 11	S C	1	41	18	m	15		5	230	84
	April	2	01 57	03 09	S C	1	51	10	ms	2		5	262	58
	April	16	04 18	18 19					ms	17		7	256	98
	May	29	02 22	29 16	S C	<1	33	6	ms	29		8	352	91
	May	31	16 52	1st June 14	S C	1	15	22	ms	1st June		9	345	61
	June	7	00 43	7 13	S C	<1	23	12	ms	7		7	317	83
	June	14	18 26	15 11	S C	<1	26	12	ms	15		7	387	40
	June	21	02 16	22 11	...				ms	21		9	241	72
	June	28	07 15	09 21	S C	2	91	23	m	09		13	215	53

- The following symbols and conventions have been used according to recognised practice
- (i) Approximate time of ending of storm construed as the time of cessation of reasonably 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 250 γ) (ms) for moderately severe (when a range is between 251 γ and 400 γ). (s) for severe (when range is above 400 γ).

PART III

IONOSPHERIC OBSERVATION FOR THE FIRST 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, fmin, h'F₂, h'F, h'E, h'Es and (M₃₀₀₀)F₂ with symbols and terminology as recommended by the Special Committee on World wide 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, prepared under the I G Y Programme, are also included in this bulletin.

KODAIKANAL OBSERVATORY,
August, 1958.

A K Das,
Dy Director-General of Observatories

IONOSPHERIC DATA

Characteristic foF2
 Unit - Mc
 Month - January 1958

TABLE I
 Ionospheric Data
 75°E Mean Time

Latitude 10° N
 Longitude 77° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	8.2	8.6	9.0	9.1	9.0	U9 5s	U10 6s	11.5H	11.6	12.9	13.4	13.6
2	7.5	U6 6r	6.6r	6.1F	U5 7F	U7 4s	8.4	10.8	12.4	13.6	13.3	13.1
3	6.8	6.6	6.7	6.8	6.8	6.6	7.9	11.0	12.9	13.6	14.0	13.9
4	U7 3F	F	F	F	7.8	8.6	8.5	11.2	13.0	13.4	13.1	12.1
5	F	F	F	F	7.11	5.9	6.1	10.0	12.1	12.6	13.5	13.1
6	U10 4F	9.6	F	8.9	8.8	7.3	6.5	10.1	U12 0s	12.1	12.1	11.6
7	8.9	8.3	7.7	8.3	U9 4s	6.4	U6 2s	9.8	U11 5s	12.0	12.0	11.6
8	8.01	9.2	9.7	10.2	9.3	6.8	5.9	9.9	11.8	12.0	11.1	10.1
9	10.8F	10.4r	9.7	9.8	9.9	8.2	7.1	10.4	12.4	12.4	11.6	11.0
10	10.0F	10.4	10.0	9.5	8.8	8.4	U7 4s	10.6	12.1	13.5	12.9	10.6
11	U11 8s	12.3	11.6	10.6	10.3	8.6	6.7	U9 6s	11.4	J11 8s	11.4	10.3
12	F	F	F	F	F	F	U8 6F	10.6	12.7	12.8	11.3	10.6
13	10.6	U9 4s	8.8	8.7	8.0	U7 2s	U7 4s	10.8	13.0	13.5	13.7	13.4
14	J10 2R	10.4	U9 6s	U9 2s	U9 2F	U8 6F	U9 0F	U11 0F	12.9	12.9	12.1	10.4
15	U8 8F	8.8	8.4	8.3	8.4	U8 4F	U8 6H	U9 1s	12.8	13.8	13.4	U10 8R
16	11.0	10.8	10.4	9.4	8.9	9.1	8.7	U10 2s	11.4	11.8	11.0	9.9
17	8.3	U7 0r	6.7	7.9	8.4	8.6	U9 1s	12.0	13.3	13.6	13.9	13.4
18	10.7	10.0	U9 4s	9.0	8.3	8.1	U7 2s	10.6	12.0	13.0	13.0	12.4
19	U9 8s	U9 8s	8.9	8.5	U7 3s	1.8	5.7	U9 6s	11.5	12.1	11.8	10.8
20	F	U9 8F	U9 7s	9.1	6.6	4.3	4.9	9.0	11.4	12.0	11.7	10.7
21	F	8.6	9.2	8.8	7.7	6.1	6.8	10.2	J12 1R	13.9	14.7	14.7
22	F	F	F	J11 1R	10.5V	8.0	Fs	10.0	J11 8s	11.1	11.0	10.4
23	10.5	10.8	U9 8s	9.0	8.1	6.2	5.5	10.2	12.4	13.5	13.5	12.0
24	12.8	11.5	U9 6s	9.0	9.2	8.7	6.6	10.3	11.7	11.9	11.6	10.9
25	10.2	8.9	8.0	8.0	6.4	4.7	5.0	9.4	12.5	13.2	12.8	11.6
26	U9 5s	U9 3s	9.0	8.8	8.0	U7 2F	U6 2sH	9.8	12.3	13.6	13.6	11.4
27	C	C	C	F	7.3	C	6.9	10.3	C	12.6	12.6	11.8
28	U8 2F	8.8	8.4	U7 1s	6.6	U6 0s	6.8	9.9	12.0	U13 3R	12.0	9.8
29	8.6F	U8 2R	7.6	7.5	7.0	5.6	5.5	9.3	11.9	13.0	12.9	10.7
30	9.1	8.7	8.8	8.8	8.4	7.6	6.2	10.2	12.0	12.2	11.7	11.2
31	F	7.0	U7 4s	8.2	8.4	7.6	7.0	U9 8s	12.1	12.6	11.5	11.0
Count	24	26	25	27	30	29	30	31	30	31	31	31
Median	9.6	9.2	9.0	8.8	8.4	7.4	6.8	10.2	12.1	12.9	12.6	11.2
Mean	9.5	9.2	8.8	8.7	8.2	7.3	7.1	10.2	12.2	12.8	12.5	11.6

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic · foF2
 Unit Mc
 Month · January 1958

TABLE I
 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
13 3	13 1	13 0	11 9	10 0	10 5	10 4	9 6	9 1F	8 8	8 9	8 6	1
13 1	U12 0W	10 6	10 5	10 6	10 2	10 1	9 3	9 1	U0 4S	8 9	7 8	2
13 5	12 9	12 2	11 4	10 7	10 3	9 9	9 2	8 1F	U0 11	7 7	7 8	3
11 7	11 6	11 4	11 0	10 9	10 7	10 1	U0 0W	U7 7W	U7 6F	F	F	4
13 0	12 7	12 7	12 3	12 1	11 7	10 6	9 6	8 6E	U0 5R	9 8	10 3	5
10 5	10 2	10 2	10 2	9 8	U9 7S	U9 7S	U0 5W	8 0	8 5	8 6	8 9	6
11 0	11 0	11 7	12 0	G	11 8	11 3	U0 6F	F	F	F	F	7
10 4	10 8	11 0	11 4	12 0	12 2	11 4	F	F	F	F	10 7F	8
10 8	11 2	12 1	C	12 7	12 2	U11 4R	F	F	U0 11	F	F	9
10 4	10 9	11 6	12 0	12 1	12 2	U11 9S	U11 2R	11 3	U12 2R	13 1	U12 1R	10
10 0	U10 6W	11 2	11 8	12 7	12 7	112 1R	U 0 6I	F	F	U9 4E	F	11
11 1	11 6	12 0	11 9	11 7	U11 3S	10 9	U9 5S	9 2R	U9 8R	10 0	U10 0S	12
11 9	U11 5W	11 0	10 6	U10 2W	U9 7S	9 3	F	F	U0 7I	9 9	R	13
U9 8W	U9 3W	U9 4W	U9 0W	9 2	U9 3S	8 7	U7 5F	F	F	F	U9 0F	14
10 0	10 4	10 8	11 7	U12 1R	12 6	12 8	U11 5S	R	R	U11 8S	11 2	15
9 9	10 1	9 5	9 1	9 7	U9 6S	8 9	U0 3F	F	F	8 0	8 6	16
11 3	10 1	9 8	10 0	10 3	10 7	11 2	11 4	11 3	11 1	12 6	11 8	17
11 2	10 5	9 8	10 0	10 0	9 9	9 1	8 1	U0 9I	8 9	U9 6S	U9 8S	18
11 0	11 6	12 3	12 4	12 1	12 2	11 4H	U0 8E	F	F	F	F	19
10 0	10 3	10 6	11 2	11 1	10 8	10 8	U9 8S	8 4	F	F	F	20
15.3	15 3	C	C	14 2	14 3	13 5H	11 1H	F	F	F	F	21
10 5	11 2	12 0	12 5	12 4	U11 5S	U10 8S	F	F	F	9 8	10 2	22
11 8	12 6	13 2	C	C	13 6	13 8	R	13 3	U12 1R	12 7	12 8	23
10.1	10 6	11 0	11 4	11 6	U11 7S	11 2	10 5	9 8I	9 5	9 8	U9 8S	24
11 3	10 5	9 9	9 9	10 5	10 8	10 7	9 6	F	F	U9 1I	10 0	25
10 8	11 7	12 1	11 8	11 3	10 0	U9 5S	U9 2E	F	F	9 8	F	26
11 6	11 8	12 0	12 0	12 4	12 5	U12 0S	10 0	F	F	F	8 6	27
10 0	10 1	10 8	11 2	11 3	11 1	10 9	U9 5I	F	F	F	F	28
10 6	10 6	11 2	U11 5S	U11 6S	U11 2R	U10 1S	U9 6S	U9 6S	U9 7S	U9 8S	U9 4S	29
10 8	10 8	11 2	11 7	11 7	11 0	9 8	9 5	F	F	F	F	30
10 6	10 6	11 2	11 5	11 8	12 0	U11 9S	U11 0R	F	F	F	U11 8F	31
31	31	30	28	29	31	31	26	13	15	19	20	Count
10 8	10 9	11 2	11 1	11 6	11 3	10 8	9 5	9 4	8 9	9 8	9 9	Median
11 2	11 0	11 2	11 2	11 3	11 3	10 8	9 6	9 6	9 1	10 0	10 0	Mean

Sweep 1 0 Mc to 25 0 Mc. in 27 seconds

Characteristic foF2
Unit · Mc
Month January 1958

TABLE I—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	8.4	8.8	9.3	8.8	U9 2s	U9 4s	U11 1SH	J11 3s	12.5	13.1	13.7	13.6
2	7.2	6.4	6.6F	U6.4F	6.6	7.2	U9 5s	11.5	13.1	13.5	13.4	13.3
3	6.7	6.6	6.8	6.8	6.8	6.7	U9 5s	12.1	13.5	13.9	14.0	13.8
4	F	F	F	F	U8 5s	8.3	9.9	12.4	13.2	13.3	12.7	11.8
5	U8 4F	F	U8 OF	F	6.7	4.8	8.3	11.6	12.4	13.1	13.6	13.4
6	10.0	9.4F	8.7	9.1	8.4	6.0	8.4	11.4	12.2	12.3	11.9	11.0
7	8.6	7.8	8.0	9.0	8.4	5.2	8.3	11.0	11.9	11.9	12.0	11.3
8	8.4F	9.4	10.0	10.0	8.3	5.3	8.0	11.0	12.1	11.7	10.9	10.2
9	10.9	10.0	9.4F	10.0	9.4	6.9	8.8	11.7	12.7	12.1	11.0	10.9
10	10.3	10.1	9.8	9.4	8.7	7.5	U9 1s	11.6	12.9	13.5	U11 4W	10.4
11	12.0	J12 2R	10.9	10.6	U9 6s	7.0	8.4	11.0	U11 7s	11.6	10.9	U10 OW
12	F	F	F	F	F	U8 8F	U9 5s	12.0	12.8	12.3	10.8	10.9
13	J10 3R	9.0	8.8	8.6	7.5	6.9	U9 2s	12.0	13.4	13.6	13.6	U13 OW
14	10.3	U9 8s	9.2	9.4	U8 8F	U8 6F	Fs	U12 0s	13.0	12.6	11.2	10.0
15	U8 8r	8.7	8.4	8.2	8.6	U8 OF	U7 2s	11.4	13.6	13.8	U12 2R	10.3
16	10.7	10.6	10.0	9.0	8.9	8.9	9.5	10.9	C	11.4	10.2	9.6
17	7.9	6.7	U7 2s	8.4	8.6	8.7	10.8	13.0	13.6	14.0	13.9	12.6
18	10.4	U9 6s	9.0	8.6	8.6	8.0	9.0	11.8	12.7	13.1	12.8	12.0
19	U9 8s	U9 4s	8.5	8.3	6.0	4.2	7.8	10.7	12.0	12.2	11.3	10.9
20	F	U9 6s	9.6	8.2	5.5	3.5	U7 2s	10.5	12.0	12.0	11.3	10.2
21	U7 7F	9.2	8.9	8.6	6.9	5.4	8.5	11.2	U13 1R	14.3	14.7	14.8
22	F	F	F	11.2	9.4	6.9F	8.5	11.2	11.6	11.5	10.8	10.4
23	10.6	10.6	9.2	8.7	6.9	4.9	8.0	11.6	J13 OR	13.9	12.4	11.6
24	12.3	10.5	U9 2s	9.0	9.3	6.9	8.4	11.0	12.2	12.0	11.2	10.6
25	U9 6s	8.2	8.0	7.4	5.8	3.6	7.2	11.4	13.2	J13 2R	11.9	11.4
26	U9 3s	9.2	8.9	8.6	7.5	J6 2s	7.8	11.3	J13 1R	13.7	12.7	10.9
27	C	C	C	8.2F	J7 1F	6.8	8.5	11.6	12.7	12.6	C	11.6
28	8.4	9.2	7.6	6.8	J6 2s	J6 3s	8.5	11.2	13.0	13.0	10.6	9.8
29	U8 2F	8.0	7.4	7.4	6.4	5.4	7.6	10.7	12.5	J13 2R	11.6	10.1
30	8.9	8.8	9.0	8.6	C	6.5	8.2	11.3	12.3	12.0	11.3	10.9
31	U6 8F	U7 4s	7.6	8.3	8.3	7.6	8.4	11.0	12.7	11.7	11.3	10.8
Count	26	26	27	28	29	31	30	31	30	31	30	31
Median	9.1	9.2	8.9	8.6	8.3	6.8	8.4	11.4	12.7	13.0	11.8	10.9
Mean	9.3	9.0	8.7	8.6	7.8	6.6	8.6	11.4	12.7	12.8	12.0	11.4

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic foF2
Unit Mc
Month January 1958

TABLE 1—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
13 1	13 0	12 4	U10 4W	10 0	10 6	9 9	9 8	9 1	8 5	8 9	8 2	1
U12 4W	11 0	U10 4W	U10 6W	10 4	10 2	U9 5s	9 0	U9 6s	U9 3s	8 5	7 0	2
13 1	12 7	11 8	10 9	10 5	10 0	9 6	8 6F	8 4I	8 0F	7 7V	U7 2F	3
11 5	11 4	11 3	10 8	10 7	10 6	U9 8s	U8 4WF	U7 4F	U7 3F	F	F	4
12 6	12 8	12 5	U12 2R	U11 6R	11 1	10 2	7 9F	8 8F	U9 4R	J10 3R	10 4	5
10 3	10 1	10 2	10 0	9 7	U9 6s	9 1	U8 3W	8 3	8 6	8 7	8 8	6
11 0	11 4	11 6	12 0	11 9	U11 6s	U9 7s	U8 6W	F	F	U7 5I	7 8F	7
10 6	10 9	11 0	11 8	12 1	11 8	10 6	F	F	F	F	10 6F	8
10 8	11 6	C	C	12 4	U11 8s	U11 0W	F	8 1	F	U8 7F	U9 1F	9
10 7	11 3	11 6	12 0	12 2	12 2	U11 6s	11 0	11 7	13 0	12 6	U11 9s	10
U10 3W	10 9	11 5	12 1	12 8	12 5	U11 6s	F	F	U9 6R	U9 0F	U8 4F	11
11 4	11 7	12 0	11 7	U11 5s	11 4	10 2	9 4	9 4	10 2	U9 8s	U10 4R	12
U11 6W	11 3	10 8	U10 4W	U10 0W	U9 6s	9 0	F	F	U9 2F	J10 2R	J10 2R	13
U9 5W	U9 4W	U9 2W	9 0	9 3	9 0	8 0	F	F	F	U8 5F	U9 0I	14
10 0	10 6	11 4	11 8	12 5	12 8	J12 0R	11 3	U12 2R	U11 7s	U11 5s	11 1	15
10 1	9 8	9 4	9 5	9 8	U9 4s	8 1	8 0	U8 1F	F	8 4	8 1	16
10 4	9 8	9 8	10 0	10 5	10 8	11 4	11 4	U11 1R	12 1	12 3	11 2	17
10 8	10 0	9 8	10 0	10 0	U9 5s	8 6	8 8	8 9	9 3	U9 8s	U9 6s	18
11 4	11 9	12 5	12 6	12 5	U11 8s	10 4II	8 2	U7 8F	F	8.8	U8 8R	19
10.0	10 5	10 9	11 3	11 0	10 4	9 0	F	U7 5F	F	F	J7 8F	20
15 3	14 8	14 1	14 0	14 5	14 0	12 5II	F	F	F	F	F	21
10 8	11 8	12 1	12 4	12 2	U11 5s	8 9	F	U7 6F	U9 3F	U9 6s	10 6	22
J12 0R	12 7	13 3	13 4	13 2	13 8	13 4	U12 6R	R	12 8	12 8	13 2	23
10 4	10 8	11 1	11 5	U11 7s	11 5	10 7	10 1	9 6	9 9	9 9	10 3	24
11 0	10 2	9 8	10 2	10 6	10 9	J10 0s	F	F	F	9 9	U9 4s	25
11 4	12 0	11 9	11 6	10 9	9 8	U9 5s	8 9F	F	F	F	C	26
11 6	11 8	12 0	12 2	12 5	U11 8s	S	F	F	F	F	8 3	27
10 3	10 7	11 0	11 3	11 4	11 2	10 4	F	F	F	U9 8F	U9 0s	28
10 6	11 0	11 2	11 6	11 6	11 0	10 0	U9 6S	U9 6s	U9 8s	U9 5s	9 4	29
10 8	11 0	11 6	11 8	11 5	10 4	9 7	9 2	8 2	J7 4F	F	F	30
10 5	11 0	11 4	11 6	11 9	11 9	U11 8s	U10 2R	F	U10 6F	U11 4s	U11 8Fs	31
31	31	30	30	31	31	30	20	19	19	24	27	Count
10 8	11 0	11 4	11 6	11 5	11 1	10 0	9 1	8 8	U9 4	U9 7	9 4	Median
11 2	11 3	11 3	11 4	11 4	11 1	10 2	9 5	9 0	U9 8	U9 8	9 6	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1
 Unit · Mc
 Month January 1958

TABLE 2
 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
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
9									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
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L _H
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21									L	L	L	L
22									L	L	L	L
23								L	L	L	L	L
24									L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27									L	L	L	L
28								L	L	L	L	L _H
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Count												
Median												
Mean								

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds.

Characteristic : foF1
 Unit : Mc
 Month . January 1958

TABLE 2
 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	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 _h							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
	1											Count
												Median
												Mean

Sweep 1 0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic . foF1
 Unit Mc
 Month January 1958

TABLE 2—*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
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	L
14							L	L	L	L	L	L
15							L	L	L	L	L	L
16								L	C	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 ^H	L
30								L	L	L	L	L
31								L	L	L	L	L
Count											..	
Median												
Mean										.		

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic , foF1
 Unit : Mc
 Month : January 1958

TABLE 2—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									1
L	L	L	L									2
L	L	L	L	L								3
L	L	L	L									4
L	L	L	L									5
												6
L	L	L	L									7
L	L	L	L									8
L	L	L	L									9
L	L	L	L	L								10
												11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L _H	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	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
												Count
												Median
												Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE
 Unit Mc
 Month . January 1958

TABLE 3
 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	B	3 7	4 1	4 5
2								2.9	3 5	4.0	A	B
3								2 8	3 3	4 0	A	A
4								2 5	A	A	A	A
5								R	A	A	A	B
6								2.7	3.4	A	A	A
7								2 8	A	A	A	A
8								2 6	A	A	A	A
9								U2 6R	A	A	A	A
10								2 6	3 4	A	A	A
11								A	A	A	A	A
12								2.4	A	A	A	A
13								A	3.5	A	A	A
14								A	A	A	A	A
15								2 5	3 4	A	B	B
16								2 7	A	A	A	A
17							1 8	2 6	3 6	3 8	U4.2A	A
18								2 6	A	A	A	A
19								U2 6A	3.3	A	A	A
20								2.8	A	A	A	A
21									3.3	3.8	4.0H	U3.9R
22								U2 5A	A	A	A	A
23								2 5H	U3 0A	A	A	A
24								U2 7F	A	A	A	A
25								2 2	A	A	A	A
26								U2 4R	3 3H	A	A	A
27								A	C	A	A	B
28								2 5H	3.2H	A	A	A
29								2 5	3 2	A	A	A
30								2 6	A	A	A	A
31								U2 6R	A	A	A	A
Count							1	25	13	5	3	2
Median								2.6	3 3	3 8		.
Mean								2.6	3 3	3 9	.	.

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic · foE
Unit . Mc
Month January 1958

TABLE 3
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
4.4	A	A	A	A	A							1
A	A	A	A	A	A							2
A	A	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	A	A	A							10
A	A	A	3.8	3.5	A							11
A	A	B	A	A	A							12
A	A	A	A	A	A							13
A	A	A	A	A	A							14
B	A	A	A	A	A							15
A	A	A	A	A	A							16
A	A	A	A	A	A							17
A	A	A	A	A	A							18
A	A	A	A	A	A							19
A	A	A	A	A	A							20
3.9	U4.0A	C	C	U3.4A	A							21
A	A	U4.0A	U3.6A	3.4	A							22
A	A	A	C	C	A							23
A	A	A	A	A	A							24
A	A	A	B	A	A							25
A	A	A	A	A	A							26
A	B	A	A	A	A							27
A	A	A	A	A	A							28
A	A	A	A	A	A							29
A	A	A	A	A	A							30
A	A	A	A	A	A							31
2	1	1	2	3	3							Count
	..											Median
.												Mean

Sweep 10 Mc to 250 Mc in 27 seconds.

Characteristic foE
Unit Mc
Month : January 1958

TABLE 3—*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 1	3 6	4 0	4 3	4.4
2							2 3	3.1	3 7	A	A	A
3								3.0	A	A	A	A
4								3 0	A	A	A	A
5								2.9	A	A	A	A
6							2 1	3 1	A	A	A	A
7								A	A	A	A	A
8								A	A	A	A	A
9								U3 1R	A	A	A	A
10								U3 1R	A	A	A	A
11								A	A	A	A	A
12							A	3 0	A	A	A	A
13								3.2	A	A	A	A
14							1 9H	A	A	A	A	A
15								3 0	A	A	B	A
16							2 1	A	C	A	A	A
17							2 4	3 2	3 7	A	A	A
18								3 0	3 6	A	A	A
19								A	A	A	A	A
20								A	A	A	A	A
21								3 0	U3 4A	3 9H	4 0H	4 0
22								A	A	A	A	A
23								2 9H	A	A	A	A
24								A	A	A	A	A
25								A	A	A	A	A
26								3 0	3 5H	A	A	A
27							R	A	A	A	C	A
28								3 0H	A	A	A	A
29								2 8	A	A	A	A
30								A	A	A	A	A
31								A	A	A	A	A
Count							5	18	6	2	2	2
Median							2 1	3 0	3 6			
Mean							2 2	3 0	3 6			.

Sweep 1°0 Mc to 25°0 Mc in 27 seconds

Characteristic foE
Unit Mc
Month January 1958

TABLE 3—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
1.3	A	A	A	A								1
A	A	A	A	A								2
A	A	A	A	B								3
A	A	A	A	A								4
A	A	A	A	A								5
A	A	A	3.6	A								6
A	A	A	U ₃ 7R	A								7
A	A	A	R	R								8
A	A	C	C	A								9
A	A	A	A	A								10
A	A	A	3.6	A								11
A	A	A	A	A								12
A	A	A	B	A								13
A	A	A	A	A								14
A	A	B	U ₃ 6R	A								15
A	A	A	A	A								16
A	A	A	A	A								17
A	A	A	A	A								18
B	A	A	A	A								19
A	A	A	A	A								20
4.0	3.8	A	A	U ₃ 1A								21
A	U ₁ 0A	A	3.6	A								22
A	A	A	3.7	A								23
A	A	A	U ₃ 1A	3.0								24
A	A	A	B	A	A							25
A	A	B	3.5	U ₃ 1A								26
A	A	A	U ₃ 6R	U ₃ 0A								27
A	A	A	A	A								28
A	A	A	A	A								29
A	A	A	A	A								30
A	A	A	A	A								31
2	2		9	1								Count
			3.6									Median
..			3.6									Mean

Sweep 1.0 Mc to 25.0 Mc in 27 sec.

Characteristic : foEs
 Unit . Mc
 Month : January 1958

TABLE 4
 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	4 6							G	G	G	G	G
2		3 4						G	G	8 3	10 0	10 6
3	4 8							G	6 8	9 0	11 2	11 0
4							7 8	G	8 0	9 6	12 0	11 6
5								G	8 0	9 0	10 8	11 0
6	7 0							G	8 6	9 0	12 2	12 0
7								U7 0s	9 8	9 6	11 2	12 0
8								G	9 0	11 0	12 0	12 0
9	2 8	8 0	7 0					G	9 0	10 6	11 4	11 8
10								G	G	10.8	12 0	12 0
11	2 8	3 2						8 6	10 0	11 0	11 6	12 0
12								G	8 4	11 4	12 0	12 0
13								6 8	G	9 6	11 0	11 5
14								7 5	8 6	10 6	12 4	12 0
15								7 0	G	8 6	11 1	11 0
16												
17							5 0	7 0	9 2	9 0	11 6	11 8
18								G	G	G	10 4	11 6
19								G	G	8 2	10 8	11 5
20								5 6	8 6	10 2	11 0	11 1
21								5 6	9 0	9 6	11 8	11 8
22									G	G	4 0	G
23								6 8	9 0	9 8	11 2	11 4
24								5 0	7 0	8 8	11 4	11 5
25								G	9 0	10 6	11 6	11 5
26								G	7 4	10 5	11 6	11 8
27	C	G	C			C		3 2	3 8	7 0	11 6	11 0
28								U5 8s	C	9 4	11 4	10 8
29	3 0							G	G	9 6	11 4	11 2
30								G	G	9 6	11 0	11 4
31								G	8 4	9 2	11 2	11 2
31								G	8 6	9 2	11 0	11 0
Count	6	3	1				3	30	30	31	31	31
Median	3 8							G	8 0	9 6	11 4	11 5
Mean	4 2							6 3	8 3	9 6	11 2	11 5

Sweep 1 0 Mc to 25 0 Mc in 27 seconds.

Characteristic foEs
Unit Mc
Month - January 1958

TABLE 4
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	11 0	11 8	11 8	8 8								1
11 6	11 8	12 0	11 6	9 8	8 0							2
10 6	11 4	11 8	11 0	8 2								3
11 2	11 1	11 0	11 8	8 8								4
10 8	11 0	11 0	10 6	8 6							2 7	5
12 0	12 0	12 0	11 6	8 0	7 4							6
11 6	11 6	11 0	10 0	C	8 0							7
12 0	12 0	11 4	9 0	5 1	G							8
12 0	11 6	9 0	C	8 0	7 6							9
11 6	12 0	11 8	10 6	8 0	12 6							10
12 2	12 0	11 6	G	6 5	7 8							11
11 5	11 3	11 0	12 0	12 1	10 1							12
12 0	11 6	11 4	11 4	9 0	8 8				3 1			13
12 0	12 0	11 6	11 8	8 6	7 0	2 0						14
11.1	12 0	11 4	8 6	1 2	3 8							15
10 6	11 4	11 2	11 0	9 0	7 0							16
12 0	11 6	11 4	11 0	8 2	7 0		3 0	3 1				17
11 8	11 6	11 8	11 0	8 0	8 0							18
11 2	11 0	11 0	10 0	8 2	7 0						4 2	19
11 4	11 6	11 0	9 8	8 0	8 0							20
5 5	8 4	C	C	6 2	7 8							21
11 4	11 0	10 0	9 0	7 8	7 0							22
11 4	9 0	9 0	C	C	7 4							23
12 0	12 0	11 6	10 4	8 2	7 8							24
11 0	11 6	11 4	11 2	8 7	7 4							25
11 6	11 2	11 0	10 6	8 0	8 0							26
10 7	10 0	10 7	10 0	8 0	7 0							27
11 8	11 6	11 0	10 2	7 8	8 0							28
11 6	11 4	11 0	11 0	8 8	8 2	2 8		2 2				29
11 2	11 6	11 0	10 6	8 2	7 0							30
11.0	11 0	10 8	11 0	8 0					5 6		8 0	31
31	31	30	28	29	26	2	1	2	2		3	Count
11 5	11 6	11 1	10 8	8 2	7 7							Median
11 3	11 3	11 1	10 7	8 1	7 7							Mean

Sweep 1 0 Mc to 25 0 Mc. in 27 seconds.

Characteristic foEs
 Unit Mc
 Month . January 1958

TABLE 4—*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							G	G	G	G	9
2		6 6					G	G	G	11 6	11 0	11 4
3								G	10 0	10 8	11 2	11 0
4								6 4	8 2	11 8	11 8	11 1
5		3 5						G	9 0	10 6	11 0	11 0
6		3 0					G	8 0	8 6	11 6	12 0	12 0
7								8 8	9 0	11 8	11 8	12 0
8								8 4	10 4	12 0	12 0	12 1
9	3 6	8 0	8 0					8 2	10 0	11 4	12 0	12 0
10								G	10 2	12 1	12 0	12 0
11	4 0							8 5	10 4	12 0	12 2	12 1
12							3 4	G	9 6	12 4	12 0	12 0
13								G	7 4	11 6	11 6	12 0
14								7 8	9 4	11 3	11 8	12 0
15								G	8 6	11 4	11 0	11 8
16							G	7 2	C	11 6	11 8	11 6
17							G	G	G	9 8	12 0	12 0
18								G	7 0	10 6	11 6	11 6
19								8 6	9 6	11 4	11 8	12 0
20								8 0	9 0	11 2	11 6	12 0
21								G	8 7	G	G	G
22							2 4	7 0	10 0	11 0	11 4	11 2
23								G	7 8	10 2	11 5	11 6
24								7 0	9 0	11 4	10 8	11 5
25								6 5	9 1	11 8	11 6	11 5
26								3 6	G	11 8	11 6	11 4
27								7 0	8 6	10 8	C	11 4
28							G	G	8 0	10 8	11 4	11 6
29								G	8 8	11 8	11 6	11 8
30					C			7 0	8 6	11 0	11 0	11 0
31								7 0	8 4	10 6	12 0	11 0
Count	3	4	1				7	31	30	31	30	31
Median							G	6 4	8.8	11 4	11 6	11 6
Mean								7 4	9 0	11 3	11 6	11 1

Sweep 1 0 Mc to 25.0 Mc in 27 seconds

Characteristic foEs
 Unit Mc
 Month January 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
6.2	12.0	12.0	9.0	8.4				3.2	3.8			1
12.0	12.0	12.0	9.0	8.8								2
11.0	11.6	11.0	8.4	8.0								3
11.6	11.0	11.0	9.0	8.0								4
10.8	11.0	10.6	8.6	7.8								5
12.2	12.0	12.0	8.8	7.8								6
12.0	11.0	10.6	G	8.4								7
12.2	11.4	10.1	5.2	4.6								8
11.4	10.8	C	C	8.0								9
11.8	11.8	10.8	11.8	11.0	3.2						4.0	10
12.0	12.0	11.0	G	7.8	4.5							11
11.8	11.2	12.0	11.5	10.1								12
11.0	11.0	11.6	10.0	8.8								13
12.0	11.4	11.4	8.7	8.3								14
11.8	11.2	10.8	G	3.8								15
11.6	11.8	11.2	8.8	8.6								16
11.4	11.2	11.6	8.6	7.8		2.6	5.0	5.4		4.0		17
11.6	11.8	11.0	9.0	8.2								18
11.0	11.4	10.6	8.2	8.0	4.0					4.2		19
12.0	11.4	10.8	8.0	8.0								20
G	6.6	8.2	7.6	8.0								21
11.6	11.4	8.8	7.4	8.2								22
11.0	10.8	10.0	8.4	8.0								23
11.6	11.6	11.8	8.2	7.8								24
11.4	11.0	11.4	9.2	8.6	12.6							25
11.6	11.0	10.6	8.4	8.6								26
11.0	11.0	10.8	7.8	7.7								27
11.8	11.0	10.4	8.4	8.3							3.8	28
11.2	11.0	11.0	8.6	9.0	8.0			2.3				29
11.6	11.2	11.2	8.0	8.0								30
11.4	11.0	11.2	8.0	7.6	3.5				4.6	5.6		31
31	31	30	30	31	6	1	1	3	2	3	2	Count
11.6	11.2	11.0	8.4	8.0	4.2							Median
11.4	11.2	10.9	8.3	8.1	6.0						.	Mean

Sweep 1.0 Mc. to 2.0 Mc. in 27 seconds

Characteristic : fbEs
 Unit Mc
 Month January 1958

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fbEs
Unit Mc
Month January 1958

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic f_oF₂
 Unit Mc
 Month January 1958

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic f_bE_s
 Unit : Mc
 Month : January 1958

TABLE 5—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
5.4	4.4	4.1	3.8	3.1				2.1	2.2			1
4.5	4.4	4.0	3.3	3.2								2
4.4	4.4	4.0	3.8	3.3								3
4.4	4.2	4.0	3.6	3.0								4
4.5	4.2	4.0	3.7	3.1								5
4.6	4.3	4.0	3.7	3.1								6
4.4	4.1	4.0		3.2								7
4.4	4.4	4.0	4.3	3.3								8
4.4	4.3	C	C	3.2								9
4.4	4.3	4.0	4.0	5.2	2.4							10
4.4	4.3	4.0		3.1								11
4.4	4.3	4.2	3.8	3.1								12
4.6	4.4	4.2		3.3								13
4.6	4.4	4.2	3.8	3.0								14
4.6	4.4			3.3								15
4.4	4.4	4.3	4.0	3.3								16
4.4	4.4	4.2	4.0	3.2				2.7				17
4.6	4.4	4.0	4.0	3.4								18
4.4	4.4	4.0	3.8	3.2	2.2					2.6		19
4.4	4.4	4.1	3.8	3.3								20
4.4	4.3	4.0	5.0	3.2								21
4.2	4.2	4.0		3.2								22
4.4	4.2	4.2		3.2								23
4.4	4.2	4.0	3.7	3.1								24
4.4	4.3	4.0		3.3	4.6							25
4.5	4.3			3.2							G	26
4.4	4.2	4.0		3.0								27
4.4	4.2	4.0	3.8	3.2							2.4	28
4.2	4.2	4.0	3.6	3.2	2.6			2.0				29
4.4	4.2	4.0	3.6	3.0								30
4.4	4.2	4.0	3.8	3.2	2.8				2.7	3.0		31
29	30	28	21	31	5			3	2	2	1	Count
4.4	4.3	4.0	3.8	3.2	2.6							Median
4.5	4.3	4.0	3.8	3.2	2.9							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic fmin
Unit Mc
Month January 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	1.4	1.8	1.8	2.0	1.6	2.0	1.7	2.2	3.0	3.1	3.3	3.4
2	2.0	1.3	1.6	1.7	1.4	2.0	1.7	2.1	2.5	2.4	2.7	4.9
3	1.5	1.8	1.6	1.3	1.7	1.6	1.7	2.0	2.1	2.6	3.0	3.1
4	2.0	1.9	2.1	2.3	2.1	2.0	1.6	2.0	2.2	2.6	2.7	2.6
5	2.0	2.0	2.0	1.7	1.9	1.9	1.6	2.3	2.3	2.6	2.8	4.9
6	1.6	1.7	2.3	1.7	1.5	1.9	1.6	1.7	2.2	2.6	2.5	2.8
7	2.0	1.7	1.7	1.4	1.8	2.2	1.7	2.0	2.4	2.6	2.6	2.7
8	2.0	2.8	2.4	2.0	2.3	1.8	1.7	2.1	2.3	3.0	3.0	3.0
9	2.2	2.2	2.0	2.2	2.2	1.8	1.6	2.3	2.6	3.0	3.1	3.0
10	2.2	1.8	1.7	1.7	1.7	1.8	1.6	2.1	2.3	2.6	2.6	3.0
11	2.2	2.4	2.0	1.9	2.1	2.1	1.6	1.8	2.1	2.4	2.6	2.7
12	1.7	1.9	2.0	1.6	2.0	1.7	1.5	2.1	2.3	2.8	2.6	2.8
13	1.8	2.1	2.0	2.0	1.6	1.7	1.6	2.1	2.4	2.6	2.8	3.1
14	1.7	2.1	2.2	2.2	1.7	1.8	1.8	1.8	2.4	2.6	3.0	3.2
15	1.9	2.2	2.2	2.0	1.5	2.2	2.0	2.1	2.4	3.0	4.6	4.0
16	2.0	2.2	2.1	2.0	2.3	2.4	1.6	1.7	2.2	2.6	2.8	2.8
17	2.0	1.8	2.2	2.2	1.9	1.8	1.7	2.2	2.4	2.9	3.0	3.2
18	2.4	2.6	2.4	2.0	2.1	1.7	2.0	1.8	2.4	2.6	2.8	3.1
19	2.1	2.2	2.0	2.0	2.1	2.0	2.4	1.8	2.2	2.8	2.8	2.8
20	2.8	2.4	1.7	1.7	1.6	1.7	1.6	1.8	2.4	2.5	2.6	2.8
21	2.2	2.2	1.6	1.7	2.1	1.8	1.9	2.8	2.8	3.0	3.2	3.2
22	2.4	2.0	2.2	2.2	2.2	2.2	1.4	1.7	2.2	2.6	2.8	3.0
23	2.0	1.9	1.7	2.2	2.0	2.2	1.7	2.0	2.1	2.2	2.6	3.0
24	2.2	2.2	2.2	2.0	2.2	1.8	1.7	2.2	2.4	3.0	2.8	3.0
25	2.2	1.8	1.8	1.5	1.6	1.9	1.6	2.0	2.2	2.6	3.0	2.8
26	1.9	2.2	1.7	2.1	1.8	2.0	1.7	2.0	2.4	3.0	2.9	3.0
27	C	C	C	2.4	2.2	C	1.4	2.0	C	2.8	2.8	3.8
28	2.2	2.0	2.2	1.9	2.0	2.0	1.4	1.7	2.4	2.4	2.8	2.7
29	1.9	2.2	2.0	2.6	2.3	2.2	1.6	2.1	2.6	2.6	2.7	3.0
30	1.9	1.8	1.7	1.7	1.7	1.9	1.4	1.9	2.0	2.4	2.6	2.8
31	2.0	2.2	2.6	2.1	2.0	2.2	1.8	2.2	2.2	2.4	2.5	2.7
Count	30	30	30	31	31	30	31	31	30	31	31	31
Median	2.0	2.0	2.0	2.0	2.0	1.9	1.6	2.0	2.4	2.6	2.8	3.0
Mean	2.0	2.0	2.0	1.9	1.9	1.9	1.7	2.0	2.3	2.7	2.9	3.1

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin
 Unit : Mc
 Month January 1958

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

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic : fmin
 Unit : Mc
 Month January 1958

TABLE 6—*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	1.8	1.7	1.7	1.8	1.8	2.3	2.6	3.0	3.0	3.4	3.5
2	1.7	1.7	1.5	1.5	1.9	1.5	2.1	2.1	2.8	2.6	2.7	3.2
3	1.5	1.7	1.6	1.6	1.6	1.6	2.2	2.3	2.2	2.7	3.4	3.0
4	2.0	2.0	2.0	2.3	2.0	2.2	2.2	2.0	2.2	2.4	2.8	2.9
5	2.0	1.9	1.8	2.0	2.0	1.9	2.2	2.2	2.4	2.7	2.9	3.2
6	2.2	1.8	2.2	1.7	1.8	1.8	1.6	1.9	2.3	2.4	2.8	2.8
7	2.1	1.8	1.9	1.7	1.9	1.9	2.2	2.2	2.7	2.6	2.8	2.9
8	2.0	2.6	2.1	2.0	2.3	2.2	2.2	2.2	2.6	3.0	2.9	3.0
9	2.3	1.9	2.3	2.6	1.8	2.3	2.2	2.3	3.0	3.0	3.0	3.1
10	2.4	2.2	1.6	1.6	2.2	1.7	2.4	2.2	2.4	2.6	2.8	3.0
11	1.9	2.4	2.0	2.2	2.1	1.8	2.0	2.0	2.2	2.4	2.9	2.8
12	1.9	1.5	1.8	1.5	2.0	1.7	1.9	2.4	2.6	2.6	2.8	3.0
13	1.9	1.6	1.6	2.0	1.7	1.7	2.2	2.4	2.4	2.6	2.8	3.2
14	2.0	2.3	2.2	1.9	1.7	2.0	1.7	2.0	2.4	2.7	3.1	3.2
15	2.0	1.7	1.9	1.6	2.4	2.2	2.4	2.3	2.4	3.4	5.6	3.6
16	1.8	2.1	2.2	2.0	2.4	2.2	1.7	1.9	C	2.4	2.6	3.0
17	1.8	1.8	1.9	2.0	2.3	2.4	2.0	2.4	3.0	3.0	3.2	3.4
18	2.0	2.6	2.3	2.3	2.2	1.9	2.2	2.2	2.6	2.5	2.8	3.2
19	2.2	2.3	1.8	1.6	1.8	1.9	2.6	2.1	2.4	2.6	2.8	3.0
20	2.6	1.9	2.0	1.6	1.8	2.0	2.2	2.2	2.4	2.4	2.8	3.0
21	2.0	1.8	1.7	1.8	1.8	1.8	2.4	2.4	2.6	3.0	3.1	3.0
22	2.2	2.2	2.3	2.3	1.8	1.7	1.6	1.9	2.4	2.5	2.8	3.0
23	1.8	1.6	2.0	2.2	2.0	2.1	2.1	2.0	2.2	2.4	2.7	2.7
24	2.3	2.6	2.4	2.1	2.4	1.9	2.3	2.3	2.6	3.0	3.0	3.0
25	2.3	1.7	1.7	1.7	1.9	1.9	2.2	2.0	2.4	2.6	2.8	3.0
26	1.8	2.2	1.9	1.8	1.8	1.8	2.7	2.1	2.8	2.6	2.9	3.1
27	C	C	C	2.0	2.2	2.0	2.2	2.0	2.6	2.8	C	3.2
28	2.2	1.7	2.0	2.0	2.2	1.9	1.8	2.0	2.4	2.2	2.6	3.0
29	2.1	2.1	2.2	2.2	2.4	2.2	2.1	2.2	2.4	2.7	3.0	3.0
30	1.8	2.1	1.8	2.2	C	1.8	2.0	1.7	2.3	2.6	2.6	2.8
31	1.8	2.0	2.4	2.0	2.2	2.4	2.0	2.2	2.3	2.4	2.6	2.8
Count	30	30	30	31	30	31	31	31	30	31	30	31
Median	2.0	1.9	2.0	2.0	2.0	1.9	2.2	2.2	2.4	2.6	2.8	3.0
Mean	2.0	2.0	2.0	1.9	2.0	1.9	2.1	2.1	2.5	2.7	3.0	3.0

Sweep 1.0 Mc to 2.5 Mc in 27 seconds

Characteristic : fmin
 Unit : Mc
 Month January 1958

TABLE 6—*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
3.0	3.0	2.6	2.5	2.2	2.1	1.4	2.0	1.6	2.1	1.6	1.8	1
3.6	3.0	2.6	2.4	2.3	2.1	1.3	1.6	1.9	1.9	2.1	2.0	2
3.0	3.0	2.6	3.0	3.3	2.2	1.8	2.1	2.2	2.0	2.1	2.1	3
2.9	2.7	2.4	2.6	2.4	2.1	1.4	1.6	2.0	2.0	2.0	1.7	4
3.1	3.0	2.7	2.7	2.3	2.2	1.7	2.4	2.0	2.0	2.1	2.4	5
3.2	2.7	2.6	2.5	2.2	2.1	1.1	1.6	1.7	1.4	2.1	2.3	6
2.6	2.6	2.8	2.7	2.4	2.2	1.4	2.1	2.2	2.1	1.8	2.0	7
3.0	2.8	2.6	2.5	2.3	2.2	1.2	2.0	2.2	2.1	2.2	2.0	8
3.0	3.0	C	C	2.3	2.2	1.6	2.1	2.0	2.2	2.1	2.4	9
3.1	3.0	2.7	2.7	2.3	2.2	1.4	2.0	2.2	2.1	2.1	2.8	10
2.9	2.7	2.4	2.6	1.9	2.2	1.4	1.7	1.4	1.6	1.4	1.5	11
2.8	2.7	2.8	2.2	1.9	2.3	1.3	1.7	1.8	1.9	1.8	2.2	12
3.0	2.8	2.5	4.0	2.4	2.3	1.5	2.2	2.2	1.7	1.8	2.0	13
3.1	3.0	2.7	2.6	2.2	2.2	1.2	2.0	2.1	2.1	2.2	2.1	14
3.3	3.2	4.2	3.2	2.8	2.2	2.0	2.4	1.8	2.2	2.4	2.2	15
3.0	2.9	3.1	2.8	2.4	2.3	1.5	2.2	2.4	2.4	2.0	1.6	16
3.1	3.2	2.7	3.0	2.4	2.3	1.5	1.6	1.8	1.8	2.4	2.4	17
3.2	2.8	2.6	2.6	2.4	2.3	1.6	1.6	1.7	2.2	2.2	2.1	18
4.8	3.0	2.6	2.6	2.1	1.5	1.2	2.2	2.0	2.2	2.2	2.8	19
2.8	2.8	2.6	2.6	2.4	2.4	1.5	2.0	2.2	2.2	2.2	1.8	20
3.2	2.8	2.6	2.8	2.3	2.3	1.4	2.2	2.3	1.8	2.1	2.3	21
3.0	3.2	2.8	2.8	2.4	2.2	1.9	2.4	2.4	2.4	1.7	1.8	22
3.1	3.0	U3.4C	3.0	2.4	2.3	1.8	1.8	2.0	2.2	2.4	2.1	23
3.0	2.8	2.7	2.6	2.2	2.4	1.4	1.4	1.9	1.8	1.9	1.7	24
3.0	2.8	2.5	4.5	2.2	1.8	1.6	1.7	2.2	2.2	2.0	2.1	25
3.4	3.1	4.8	3.0	2.2	2.3	1.7	2.2	2.4	2.2	2.2	C	26
3.1	3.0	2.8	2.6	2.5	2.3	1.3	2.4	2.5	2.5	2.2	2.2	27
3.0	3.0	2.7	2.6	2.5	2.6	1.7	2.2	2.2	2.2	2.1	1.9	28
2.9	2.9	2.6	2.8	2.3	1.7	1.4	2.0	1.7	1.8	1.9	2.2	29
3.0	2.6	2.4	2.5	2.2	1.8	1.4	1.8	2.6	2.2	2.4	1.9	30
2.9	3.0	2.9	3.0	2.5	2.4	1.6	2.1	2.2	1.7	2.4	2.6	31
3.1	3.1	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	Count
3.0	3.0	2.6	2.6	2.3	2.2	1.4	2.0	2.1	2.1	2.1	2.1	Median
3.1	2.9	2.8	2.8	2.3	2.2	1.5	2.0	2.1	2.0	2.1	2.1	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : h'F2
 Unit . Km
 Month January 1958

TABLE 7
 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									LH	LH	LH	LH
2								L	LH	LH	LH	LH
3									L	LH	LH	LH
4									L	LH	L	L
5									L	L	L	L
6								L	L	LH	L	L
7								L	L	L	LH	L
8									L	L	LH	LH
9									L	L	L	L
10								L	L	LH	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
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
22									L	L	L	L
23								L	L	L	L	L
24									L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27									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
Count												
Median												
Mean												

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

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

TABLE 7
 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
LH	LH	LH	L	L								1
LH	LH	LH	LH	LH								2
LH	LH	LH	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	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
460	475	C	C	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
	1	1										Count
												Median
												Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic · h'F2
 Unit : Km
 Month , January 1958

TABLE 7—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								L _H	L _H	L _H	L _H	L _H
2								L	L _H	L _H	L _H	L _H
3								L	L _H	L _H	L _H	L _H
4								L	L _H	L _H	L	L
5								L	L	L	L	L
6								L	L	L _H	L	L
7								L	L	L	L	L
8								L	L	L _H	L	L
9								L	L	L	L	L
10								L	L _H	L _H	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13							L	L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	C	L	L	L ¹⁷⁰
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
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	C	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
Count .												1
Median												.
Mean												.

Sweep 1 0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic h'F₂
 Unit Km
 Month January 1958

TABLE 7—contd
 Ionospheric Data
 75 0°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

030	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L ₁₁	L ₁₁	L	L									1
L ₁₁	L ₁₁	L ₁₁	L									2
L _H	L ₁₁	L	L	L								3
L	L	L	L									4
L	L	L	L									5
L	L	L	L									6
L	L	L	L									7
L	L	L	L									8
L	L	C	C									9
L	L	L	E	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	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
1	1											Count
.	.											Median
												Mean

Sweep 1.0 Mc to 25.0 Mc, in 27 seconds

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

TABLE 8
 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	360	320	320	340	350	320	360	280H	245	235	230	235
2	325	370	365	390	365	285	260	270	245	240	225H	235
3	305	280	260	255	255	250	270	260	240	235	225	220
4	320	320	325F	315	280	240	260	260	240	235	225	225
5	340	300	265	255	240	225	265	260	245	240	230	225
6	300	280	280	260	235	220	275	260	250	235	225	220
7	285	280	260	250	235	225	280	270	250	240	220	215
8	300H	300	300	260	240	215	255	265	245	240	220H	215
9	305	310	310	295	230	215	260	260	245	235	225	215
10	300	270	260	260	235	230	250	260	245	235	220	210
11	300	280	280	275	240	220	250	270	250	240	230	215
12	330	320	380	340	300	230	240	260	240	240	220	215
13	260	280	300	280	240	240	260	260	240	230	220	220
14	280	280	265	280	335	360	320	260	240	235	220	220
15	280	280	275	260	320	410	360H	260	240	235	230	2 5
16	270	295	280	260	300	300	310	270	250	240	230	220
17	240	260	305	320	300	270	255	260	245	235	230	2 0H
18	280	295	270	260	270	280	260	280	240	235	230	210
19	270	275	280	255	240	250	280	265	240	230	220	220
20	300	280	280	240	230	225	300	265	250	240	220	210
21	300	290	265	255	240	240	250	265	240	235	240	215
22	U385F	320	320	270	240	220	245	260	240	230	220H	200H
23	265	260	245	260	220	220	220	250	235	230	220H	2 0H
24	240	215	280	305	290	225	230	260	240	230	220	210H
25	240	260	255	290	225	225	245	250	230	220	220	210
26	260	285	280	260	220	220	220	250	240	235	210	205
27	C	C	C	240	225	C	245	260	C	225	220	220
28	260	240	240	240	240	240	240	250	230	220	215	200H
29	260	260	260	240	240	220	220	250	230	220	210	210
30	240	240	240	240	240	235	220	255	235	200	210	200
31	260	280	300	290	260	230	220	255	240	225	220	215
Count	30	30	30	31	31	30	31	31	30	31	31	31
Median	280	280	280	260	240	230	255	260	240	235	220	215
Mean	290	285	285	275	260	250	260	260	240	230	220	2 5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic · h'F
Unit Km
Month January 1958

TABLE 8
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
230	220	235	245	260	290	360	400	390	350	300	280	1
225H	210H	215H	240	260	285	315	400	340	290	280	300	2
220	220	225	230	255	280	310	420	410	410	370	340	3
220	220	225	235	255H	270	310	470	540	500	480	420	4
215	215	215	220H	250	280	340	475	460	400	340	300	5
220	200H	215	215	255	280	330	470	440	375	325	305	6
210	210	220	210	C	280H	310	U1101	F	F	U1400H	325	7
200H	200H	220	250	275	280H	310	F	500H	120H	380	315	8
200H	200H	230	C	215	280H	350H	500	460	415	340	300	9
210	215	230	240	250	A	395	U1701	120	335H	290	295	10
205	205	235	230	210	280	310	460	440	400	360	340	11
210	220	225	210	260	280	310	420	415	300	280	280	12
220	220	220	210	255	280	310	F	U1401	300	270	275	13
210	215	230	230	255	280	350	500	U1801	400	320	270	14
210	210	225	210	260	275	330	410	380	300	280	275	15
210	210	215	215	260	280	310	U1201	F	F	300	260	16
210	220	220	230	255	280	325	375	360	300	250	270	17
225	230	230	250	260	290	350	400	380	310	280	270	18
210	220	220	230	250	280	330	F	U1401	400	310	300	19
200	205	230	240	210	280	340	500	510H	120	380	300	20
220	230	C	C	215	270	320	410	F	F	U345H	F	21
200H	215	220H	235	245	270	325	U190H	F	300	260	265	22
205	200H	A	C	C	275	310	385	310	290	265	265	23
200H	200H	200H	230	210	260	305	360	290	240	210	235	24
210H	200H	205	B	250	265	310	425	F	300	255	255	25
200H	230	225	230	210	265	310	385	420	385H	290	260	26
205	220	220	230	240	260	305	F	F	U405H	320	260	27
200	200	220	220	210	280	310	400	400	U360H	250	250	28
205	200	210	230	240	260	300	360	305	270	260	260	29
210	210	210	225	235	265	300	380	410H	420	390H	320H	30
210	200	220	220	210	270	300	400	F	420	285	270	31
31	31	29	27	29	30	31	27	24	28	31	30	Count
210	215	220	235	250	280	335	420	420	370	300	280	Median
210	210	220	230	250	275	330	430	420	360	315	290	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic . h'F
 Unit Km
 Month January 1958

TABLE 8—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	360	320	335H	360	315	335	300H	260	240H	235	230	220
2	340	U405A	375	370	345	245	285	260	240	235	230H	225H
3	300	275	260	255	255	255	285	255	240	225	225	225
4	325	325	320	300	260	240	280	250	240	230	220	220
5	310	300	245	240	240	235	275	255	240	240	230	220
6	290	290	265	255	230	235	285	250	240	230	220	220H
7	285	275	260	245	225	240	295	250	245	230	215	210
8	300	300	280	240	220	220	285	255	240	230H	205H	205H
9	300	315	305	260	220	220	280	255	240	225	215	210
10	300	270	260	245	240	225	265	255	240	225	215	205
11	280	280	280	270	235	220	290	260	240	230	220	210
12	320	310	360	320	260	220	280	250	240	235	220	220
13	260	285	280	260	240	240	275	250	240	230	220	220
14	280	275	270	310	360	330	300	260	240	220	220	210H
15	280	280	260	280	400	400	285	245	240	230	B	240
16	260	275	265	280	300	290	300	260	C	230	220	210
17	260	280	300	305	290	260	280	245	240	220	220H	220
18	280	290	270	260	290	250	285	260	240	230	220	210
19	275	280	270	250	240	250	290	255	240	230	220	220
20	290	280	260	240	230	260	290	260	250	235	220	210
21	280	285	260	225	235	240	280	255	240	225	220	210H
22	345	340	280	250	220	225	285	245	235	225H	210	200H
23	260	245	260	240	220	220	255	245	235	225	210H	205H
24	260	265	300	300	255	215	270	250	240	230	215	205
25	260	260	240	215	220	235	260	235	225	220	215	210
26	260	290	275	230	220	210	250	245	230	220	210	200H
27	C	C	C	230	225	225	280	245	225H	220	C	220
28	250	240	240	240	240	235	265	240	230	220	200H	200
29	255	260	255	240	220	220	240	240	230	220	200	210
30	240	240	240	240	C	200	270	240	225	210	200	210
31	250	300	300	270	240	220	240	250	240	225	220	210
Count	30	30	30	31	30	31	31	31	30	31	29	31
Median	280	280	270	255	240	235	280	250	240	230	220	210
Mean	285	290	280	265	255	245	280	250	240	225	215	215

Sweep 10 Mc to 250 Mc in 27 seconds.

Characteristic: h'F
 Unit: Km
 Month: January 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
245	220	240	260	270	310	405	420	380	315	300	300	1
220	220	235	255	270	310	395	380	305	285	290	300	2
220	220	225	240	265	305	395	430	420	400	365	370	3
220	220	225	245	260H	300	410	520	530	500	450	475	4
215	215H	215	215	260	300	415	480	440	350	315	300	5
200H	215	220	250	265	300	405	480	415	310	315	300	6
210	210	225	240	265H	300	400	F	F	F	365	315	7
200H	215	235	255	270H	300H	415	500H	400H	380H	340	305	8
200H	220	G	G	260H	300H	400H	520	440	390	300	300	9
200H	230	230	240	A	300	405	0400H	390H	300	295	300	10
2200	220	230	240	260	300	420	460	420	360	340	340	11
220	220	240	240	265	300	400	430	410	280	280	275	12
220	220	240	240	270	300	390	F	0440	300	275	280	13
220	220	240	240	260	310	410	0500H	420	360	300	280	14
200H	220	240	245	265	300	400	420	420	300	280	275	15
215	220	245	260	265	310	400	F	400	360	280	240	16
220	225	235	250	260	300	375	410	340	260	260	265	17
230	240	235	260	70	310	400	400	340	300	275	260	18
220	240	235	245	260	300	400	F	0440H	410	310	300	19
205	225	235	240	260	300	420	540	460	400	340	280	20
205H	230	225	A	255	295	375	F	F	0500H	350	0400H	21
200H	230	225	240	255	295	390	F	0550H	265	255	260	22
200H	240	230	240	250	290	355	380	320	270	270	245	23
200H	205	205H	230	240	280	355	320	360	245	240	240	24
210H	200H	240	B	260	A	360	480	0500H	275	250	265	25
200H	225	B	240	250	285	360	430	400	0530H	260	G	26
195H	220	220	235	250	280	355	F	F	0540H	295	245	27
200	200	220	225	260	290	360	420	0500H	300	240	250	28
200	215	220	240	250	280	330	340	290	260	260	260	29
220	215	220	240	250	280	340	390	420	400	370F	260	30
205	210	220	230	260	280	355	410	405H	365	280	240	31
31	31	29	28	30	30	31	24	28	30	31	30	Count
205	220	230	240	260	300	400	430	395	340	295	280	Median
210	220	230	245	260	295	390	435	385	335	300	285	Mean

Sweep 1.0 Mc. to 2.0 Mc. in 27 seconds

Characteristic : h'E
 Unit Km
 Month : January 1958

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

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic h'E
 Unit Km
 Month January 1958

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

Sweep 1 0 Mc to 25 0 Mc, in 27 seconds

Characteristic h'E
Unit Km
Month January 1958

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

Sw ep 1 0 Mc. to 25 0 Mc. in 27 seconds.

Characteristic h'F
 Unit Km
 Month January 1958

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

Sweep 1.0 Mc to 2.5 Mc. in 27 seconds

Characteristic . h'Es
 Unit . Km
 Month . January 1958

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

Sweep 1 0 Mc, to 25 0 Mc, in 27 seconds.

Characteristic $h'Es$
 Unit Km
 Month January 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	100	100	100	100								1
100	100	100	100	100	110							2
100	100	100	100	100								3
100	100	100	100	105								4
100	100	100	100	100							110	5
100	100	100	100	100	110							6
100	100	100	100	C	110							7
100	100	100	100	120	G							8
100	100	100	C	105	110							9
100	100	100	100	105	110							10
100	100	100	G	100	105							11
100	100	100	100	100	100							12
100	100	100	100	105	115							13
100	100	100	100	100	105	160			120			14
100	100	100	100	120	120							15
100	100	100	100	105	110							16
100	100	100	100	110	110		110	120				17
100	100	100	100	100	115							18
100	100	100	100	100	110						110	19
100	100	100	100	100	110							20
115	100	C	C	120	105							21
100	100	100	100	100	105							22
100	100	100	C	C	105							23
100	100	100	100	100	105							24
100	100	100	100	100	105							25
100	100	100	100	100	110							26
100	100	100	100	105	105							27
100	100	100	100	100	110							28
100	100	100	100	105	110	110		100				29
100	100	100	100	100	110							30
100	100	100	100	110					120		120	31
30	31	30	27	29	25	2	1	2	2		3	Count
100	100	100	100	100	110						..	Median
100	100	100	100	105	110		.					Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic h'Es
Unit Km
Month - January 1958

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

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic : h'Es
 Unit Km
 Month January 1958

TABLE 10—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
130	100	100	100	100				120	110			1
100	100	100	100	105								2
100	100	100	100	105								3
100	100	100	100	105								4
100	100	100	100	100								5
100	100	100	100	105								6
100	100	100	G	105								7
100	100	100	120	120								8
100	100	C	C	105								9
100	100	100	110	110	120						110	10
100	100	100	G	100	105							11
100	100	100	100	100								12
100	100	100	100	105								13
100	100	100	100	105								14
100	100	100	G	120								15
100	100	100	100	110								16
100	100	100	110	110		110	115	110		110		17
100	100	100	100	110								18
100	100	100	100	110	110					115		19
100	100	100	100	100								20
G	100	100	120	105								21
100	100	100	100	105								22
100	100	100	100	105								23
100	100	100	100	100								24
100	100	100	100	105	105							25
100	100	100	100	105							C	26
100	100	100	100	105							110	27
100	100	100	100	105								28
100	100	100	100	105	105			100				29
100	100	100	100	100								30
100	100	100	100	110	150				120	120		31
30	31	30	27	31	6	1	1	3	2	3	2	Count
100	100	100	100	105	110							Median
100	100	100	100	105	115							Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic . (M3000)F2
 Unit . —
 Month : January 1958

TABLE II
 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 25	2 20	2 30	2 30	2 30	U2 40S	U2 35S	2 00H	2 35	2 35	2 20	2 20
2	2 30	U2 10F	2 15F	2 10F	U2 15F	U2 45S	2 70	2 60	2 40	2 35	2 15	2 05
3	2 40	2 55	2 55	2 70	2 70	2 75	2 65	2 65	2 50	2 35	2 25	2 10
4	U2 30F	F	F	F	2 50	2 80	2 90	2 80	2 55	2 30	2 10	2 00
5	F	F	F	F	2 90F	3 10	2 65	2 95	2 65	2 35	2 20	2 10
6	U2 40F	2 55	F	2 75	2 95	3 15	2 80	2 65	2 35	2 25	2 15	2 00
7	2 45	2 50	2 60	2 70	2 95	3 30	U2 60S	2 60	2 45	2 35	2 10	2 00
8	2 25	2 25	2 55	2 85	3 05	3 20	2 70	2 75	2 40	2 15	2 10	2 05
9	2 30	2 40	2 55	2 60	2 85	3 15	2 95	2 75	2 50	2 15	2 10	2 05
10	2 45I	2 70	2 70	2 85	3 05	3 10	U2 80S	2 95	2 70	2 30	2 00	1 95
11	U2 70S	2 70	2 75	2 70	2 80	3 20	2 85	U2 60S	2 40	J2 20S	2 00	2 00
12	F	F	F	F	F	F	U2 90F	2 60	2 50	2 20	2 00	2 00
13	2 65	U2 65S	2 60	2 75	3 00	U2 90S	U2 75S	2 90	2 70	2 40	2 15	2 00
14	J2 50R	2 40	U2 60S	U2 60S	U2 45FS	U2 40F	U2 40F	U2 60F	2 55	2 20	2 00	U1 95W
15	U2 50F	2 50	2 65	2 75	2 55	U2 30F	U2 40F	U2 90S	2 65	2 40	2 05	U1 95R
16	2 80	2 80	2 80	2 95	2 80	2 70	2 65	U2 40S	2 40	2 15	2 05	U1 95W
17	2 70	U2 60F	2 50	2 50	2 60	2 65	U2 70S	2 80	2 65	2 15	2 30	2 00
18	2 70	2 65	U2 80S	2 90	2 90	2 90	U2 90S	2 75	2 60	2 45	2 20	U1 95W
19	2 60	U2 70S	2 80	2 80	U3 10S	3 15	2 50	U2 70S	2 45	2 20	2 05	2 10
20	F	U2 55F	U2 70S	3 00	3 20	3 10	2 55	2 75	2 50	2 25	2 05	2 05
21	U2 25I	2 30	2 70	2 75	2 95	2 95	2 40	2 80	J2 60R	2 35	2 35	2 30
22	F	F	F	J2 80R	3 00V	3 15	F5	2 70	J2 25S	2 35	2 10	2 05
23	2 75	2 80	U2 85S	2 85	3 10	3 25	2 70	3 00	2 70	2 35	2 05	2 00
24	2 95	2 85	U2 75S	2 70	2 80	3 15	2 95	2 80	2 50	2 25	2 10	2 10
25	2 75	2 75	2 75	2 90	3 05	3 25	2 50	2 95	2 80	2 35	2 05	2 15
26	U2 65S	2 65	2 65	2 90	3 05	U3 15F	U2 80SH	2 95	2 75	2 60	2 15	2 15
27	C	C	C	F	3 05	C	2 85	2 70	C	2 40	2 15	2 15
28	U2 70F	3 00	2 90	U2 85S	3 05	U3 15S	3 15	3 10	2 85	U2 50R	2 15	2 30
29	2 80F	U2 90R	3 00	3 00	3 20	3 10	2 95	3 20	3 05	2 65	2 15	2 10
30	2 95	2 85	2 90	3 00	3 05	3 20	3 10	2 95	2 65	2 50	2 30	2 20
31	F	2 80	U2 70S	2 85	3 05	3 20	3 20	U3 00S	2 65	2 30	2 40	2 20
Count	25	26	25	27	30	29	30	31	30	31	31	31
Median	2 60	2 65	2 70	2 80	2 95	3 10	2 70	2 75	2 55	2 35	2 10	2 05
Mean	2 55	2 60	2 65	2 75	2 85	2 95	2 75	2 75	2 55	2 35	2 15	2 05

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic (M₃₀₀₀)F₂
 Unit —
 Month : January 1958

TABLE 11
 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 10	2 05	2 00	W	1 90	2 00	2 00	2 00	2 05F	2 15	2 20	2 30	1
1 95	UI 90W	1 90	1 95	1 95	1 95	2 00	2 05	2 20	2 40	2 40	2 30	2
2 05	1 95	1 90	1 90	1 90	1 95	2 05	2 00	1 95F	U2 00F	2 10	2 20	3
1 95	2 00	2 00	1 95	1 95	2 00	2 05	UI 95W	UI 90W	UI 90F	F	F	4
2 05	2 00	2 00	2 00	2 00	1 95	1 95	1 90	1 95F	U2 10R	2 10	2 20	5
1 95	1 90	1 95	1 90	1 95	2 00	2 10	UI 95W	2 05	2 10	2 25	2 40	6
2 00	2 00	2 00	2 05	C	U2 00C	1 90	U2 05I	F	F	F	F	7
1 95	1 95	1 95	2 00	2 05	2 05	2 00	F	F	F	F	2 25F	8
2 00	2 05	2 10	C	2 10	2 05	UI 95R	F	F	U2 00F	F	F	9
2 00	2 00	2 00	2 05	2 10	2 10	2 05	U2 05R	2 05	U2 30R	2 50	U2 55R	10
2 00	U2 00W	2 05	2 15	2 20	2 10	J2 05R	U2 00F	F	F	U2 10F	F	11
2 05	2 00	2 00	2 00	2 00	UI 95S	1 95	U2 00S	U2 05R	12 35R	2 50	U2 40S	12
2 00	UI 95W	U2 00W	U2 00W	W	U2 00S	2 10	F	F	U2 35F	2 40	R	13
UI 95W	W	UI 95W	UI 95W	2 00	UI 95S	2 00	U2 00S	F	F	F	U2 50F	14
1 95	1 95	2 00	2 05	U2 15R	2 15	2 15	U2 10S	R	R	U2 55S	2 65	15
UI 95W	1 95	UI 85W	1 90	1 95	U2 00W	2 05	2 00	F	F	2 40	2 60	16
1 90	1 90	UI 95W	1 95	2 00	2 00	2 10	2 15	2 30	2 35	2 70	2 80	17
1 95	1 85	1 90	1 95	2 00	2 00	2 00	2 00	U2 20F	2 35	U2 50S	U2 60S	18
2 05	2 05	2 10	2 10	2 10	2 05	UI 85WH	UI 95F	F	F	F	F	19
2 00	2 05	2 05	2 05	2 05	1 95	U2 00S	1 95	F	F	F	F	20
2 35	2 35	C	C	2 25	2 25	2 15H	1 95H	F	F	F	F	21
2 05	2 00	2 05	2 10	2 10	U2 05S	2 00	F	F	F	2 55	2 60	22
2 10	2 15	2 20	C	C	2 25	2 20	R	2 25	R	2 60	2 70	23
2 10	2 10	2 05	2 10	2 10	U2 05S	2 00	2 00	2 35F	2 55	2 60	U2 80S	24
2 05	2 00	2 00	2 05	2 10	2 10	2 10	2 10	F	F	U2 50F	2 55	25
2 00	2 10	2 10	2 05	1 95	2 00	2 10	2 05	F	F	2 50	F	26
2 10	2 10	2 10	2 10	2 15	2 15	U2 05S	1 90	F	F	F	2 75	27
2 20	2 10	2 10	2 15	U2 25	2 15	2 15	U2 05F	F	F	F	FS	28
2 10	2 10	2 10	U2 10S	U2 05S	2 05R	U2 25S	U2 25S	U2 40S	U2 60S	U2 70S	U2 80S	29
2 15	2 10	2 15	2 15	2 15	U2 10	2 20	2 20	F	F	F	F	30
2 25	2 15	2 20	2 20	2 25	2 25	U2 20S	U2 10R	F	F	F	U2 70F	31
31	31	30	28	29	31	31	26	13	14	19	20	Count
2 00	2 00	2 00	2 05	2 05	2 05	2 05	2 00	2 05	2 30	2 50	2 60	Median
2 05	2 00	2 00	2 05	2 05	2 05	2 05	2 00	2 15	2 25	2 45	2 55	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic (M₃₀₀₀)F₂TABLE 11—*contd*

Latitude 10 2° N

Unit —

Ionospheric Data

Longitude 77 5° E

Month · January 1958

75 0°E Mean Time

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

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic (M3000)F2
Unit Mc
Month January 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
2 10	2 00	1 90	1 90W	1 95S	2 00	2 00	2 00	2 10	2 15	2 25	2 30	1
UI 90W	1 90	1 90	1 95	1 95	2 00	2 00	2 10	2 35	2 45	2 40	2 40	2
2 00	1 95	1 90	1 90	1 95	2 00	2 05	2 00F	2 00	2 05F	2 15V	U2 25F	3
2 00	2 00	2 00	1 95	1 95	2 05	2 00	UI 90W	UI 90F	UI 90F	F	F	4
2 05	2 05	2 00	UI 95R	U2 00R	2 00	1 90	2 00I	1 85F	U2 05R	J2 10S	2 35	5
1 95	1 90	1 95	1 95	2 00	2 05	2 05	1 95	2 10	2 20	2 35	2 45	6
2 00	2 00	2 05	2 10	2 05	2 00	2 00	UI 90W	F	F	2 15	2 15F	7
1 95	1 95	2 00	2 05	2 10	2 00	1 95	F	F	F	F	2 25	8
2 00	2 05	C	C	2 05	2 00	W	F	2 05	1	U2 25F	U2 40I	9
1 95	2 00	2 00	2 05	2 10	2 10	2 00	2 00	2 10	2 15	2 55	U2 65S	10
UI 95W	2 00	2 10	2 20	2 20	2 05	U2 00S	F	F	U2 00F	U2 15F	U2 20F	11
2 05	UI 95W	2 05	2 00	U2 00S	1 95	2 00	2 00	2 20	2 10	U2 50S	U2 50R	12
U2 00W	UI 95W	U2 00W	W	UI 95W	U2 00S	2 00	F	F	U2 35F	J2 40R	J2 60R	13
U2 00W	W	UI 95W	2 00	1 95	2 00	2 00	F	F	F	U2 50F	U2 50I	14
2 00	1 95	2 00	2 10	2 15	2 20	J2 15R	2 05	U2 20R	U2 45S	U2 60S	2 70	15
1 95	UI 90W	UI 90W	1 95	1 95	U2 00W	2 05	2 00	U2 15F	F	2 50	2 65	16
1 90	1 95	1 95	1 95	2 00	2 10	2 10	2 30	2 30	2 60	2 70	2 75	17
1 95	1 85	1 90	1 95	2 00	UI 95S	2 00	2 05	2 30	2 40	U2 55S	U2 60S	18
2 10	2 05	2 10	2 10	2 10	U2 00S	UI 80WII	2 00	U2 05F	F	2 30	U2 60R	19
2 00	2 05	2 05	2 10	2 00	UI 95W	2 00	F	UI 95F	F	F	J2 50F	20
2 35	2 30	2 20	2 20	2 20	2 20	2 00H	F	F	F	F	F	21
2 00	2 05	2 10	2 15	2 10	2 00	2 00	F	U2 10F	U2 45F	U2 55S	2 70	22
J2.10R	2 15	2 20	2 25	2 25	2 25	2 15	R	R	2 50	2 55	2 80	23
2 05	2 05	2 05	2 10	U2 10S	2 05	1 95	2 15	2 50	2 60	2 65	2 75	24
2 00	2 00	2 00	2 10	2 10	2 10	J2 05S	F	F	F	2 60	U2 75S	25
2 05	2 10	2 05	2 00	1 95	2 10	U2 10S	2 05F	F	F	F	C	26
2 10	2 10	2 10	2 20	2 20	U2 15S	S	F	F	F	F	2 70	27
2 15	2 10	2 15	2 20	2 20	2 10	2 00	F	F	F	U2 85F	U2 70S	28
2 10	2 10	2 10	2 10	2 05	2 10	2 25	U2 30S	U2 50S	U2 70S	U2 75S	2 80	29
2 10	2 10	2 15	2 15	2 10	2 15	2 20	2 20	2 25	2 30	F	F	30
2 20	2 20	2 20	2 20	2 25	2 25	U2 10S	U2 00R	F	U2 20F	U2 55S	U2 90FS	31
31	31	30	30	31	31	30	19	19	19	24	27	Count
2 00	2 00	2 00	2 10	2 05	2 15	2 00	2 00	2 10	2 40	2 50	2 60	Median
2 05	2 00	2 05	2 05	2 05	2 05	2 05	2 05	2 15	2 30	2 45	2 55	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds.

Characteristic . foF2
Unit : Mc
Month : February 1958

TABLE 12
Ionospheric Data
75° 0' E Mean Time

Latitude 10 20° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	10 8F u7 6F	10 3 u7 4F	8 6 u7 4F	8 2 F	8 2 6 6	7 3 6 7	5 6 u6 7F	9 0H F	10 4 u12 0F	10 3 12 6	10 5 C	10 7 C
2	5 6 F	u9 9F	F	7 9F F	4 9 7 5	u4 0F 5 6	u4 9F F	8 6 u9 4F	10 9 11 3	12 6 C	12 5 12 2	13 1 13 1
3	F	F	F	8 9	u9 5F	9 7	9 2	11 0	12 4	12 3	12 9	13 1
4	13 0 u11 8F	10 6 u11 8F	7 0 u7 1F	6 4 5 1	6 6 4 5	u6 1F 3 5	6 6 4 8	10 1 8 5	11 4 10 7	11 9 11 4	11 9 11 1	11 8 11 6
5	F	F	F	7 8 u7 3F	7 4 7 6	6 6 6 1	5 6 u5 6	9 4 u9 7F	11 8 u11 8F	12 1 11 1	11 9 10 0	12 1 10 5
6	13 0 u11 8F	10 6 u11 8F	u7 1F 8 7	6 4 5 1	4 5 6 7	u6 1F 3 5	6 6 4 8	10 1 8 5	11 4 10 7	11 9 11 4	11 9 11 1	11 8 11 6
7	13 8 F	9 8 u11 8F	u7 1F 8 7	5 1 7 3	4 5 7 4	3 5 6 1	4 8 5 3	8 5 9 4	10 7 10 8	11 4 10 0	11 1 11 0	11 6 10 0
8	u13 2F	u11 2F	9 3 F	u7 3F 7 8	7 6 7 4	6 6 F	u5 6 u5 6	9 8	11 8 u11 8F	12 1 11 1	11 9 10 0	12 1 10 5
9	u11 2F 5 6	12 3 4 8	11 8 4 7	11 5 12 3	10 8 F	10 4 4 1F	10 3 F	11 0 10 6	11 8 13 5	16 4 C	11 9 C	9 7 C
10	u11 4F 13 6	14 2 u11 2F	14 4 u9 2F	14 4 u9 2F	11 0 u7 3F	8 4 u7 3F	4 8 6 8	10 6 19 5F	12 2 12 7	13 2 OR 14 6	11 3 15 2	11 4 14 9
11	u11 4F 11 0	11 4 u11 2F	u9 6F 11 4	u9 2F u9 2F	u7 2F u7 2F	u7 2F	u6 5F	F	12 0 12 0	13 4 13 4	13 6	14 9 C
12	u11 4F 5 6	12 3 4 8	11 8 4 7	11 5 12 3	10 8 F	4 1F 8 4	10 3 F	11 0 10 6	11 8 13 5	16 4 C	11 9 C	9 7 C
13	13 6 u11 9F	14 2 u11 2F	14 4 u9 2F	14 4 u9 2F	11 0 u7 3F	8 4 u7 3F	4 8 6 8	10 6 19 5F	12 2 12 7	13 2 OR 14 6	11 3 15 2	11 4 14 9
14	11 0 u11 2F	11 4 u11 2F	u9 6F 11 4	u9 2F u9 2F	u7 2F u7 2F	u7 2F	u6 5F	F	12 0 12 0	13 4 13 4	13 6	14 9 C
15	u11 4F 11 0	11 4 u11 2F	u9 6F 11 4	u9 2F u9 2F	u7 2F u7 2F	u7 2F	u6 5F	F	12 0 12 0	13 4 13 4	13 6	14 9 C
16	u11 4F 11 0	11 4 u11 2F	u9 6F 11 4	u9 2F u9 2F	u7 2F u7 2F	u7 2F	u6 5F	F	12 0 12 0	13 4 13 4	13 6	14 9 C
17	11 0 u11 2F	11 4 u11 2F	u9 6F 11 4	u9 2F u9 2F	u7 2F u7 2F	u7 2F	u6 5F	F	12 0 12 0	13 4 13 4	13 6	14 9 C
18	u11 4F 11 0	11 4 u11 2F	u9 6F 11 4	u9 2F u9 2F	u7 2F u7 2F	u7 2F	u6 5F	F	12 0 12 0	13 4 13 4	13 6	14 9 C
19	u11 4F 11 0	11 4 u11 2F	u9 6F 11 4	u9 2F u9 2F	u7 2F u7 2F	u7 2F	u6 5F	F	12 0 12 0	13 4 13 4	13 6	14 9 C
20	12 2	10 4	u9 4F	7 8	u6 2F 6 8	6 2 5 8	5 4 5 4	u9 2F 10 5	10.6 10.6	11.8 11.4	11.7 11.8	11 7 13 0
21	11 4	10 7	8 4	u7 3F 8 6	u7 2F 8 7	7 8 8 8	u9 6F 8 7	12 2 11 0	13.4 13.2	13 2 14.1	12 6 12 6	12.4 12.0
22	u12 0F 12 1	u10 3F 10 2	u9 2F u9 2F	9 1 8 5	8 7 8 5	6 8 7 0	u6 7F 6 4	u10 2F u10 2F	13 G 12 3	C 12 6	C 11 7	12.0 10.9
23	11 4 11 4	10 9 10 9	u9 2F u9 2F	8 5 8 3	7 5 7 0	7 5 5 5	6 4 5 0	9 8	12.2 12.2	12.5 12.5	11 5	10.9
24	11 4 11 8	11 1	u9 6F 9 5	8 6 8 6	7 8 F	u7 2F 8 4	5 6 u6 7F	u9 7F 9 9	12 2 12 2	13 7 12 5	12 7 11 7	12 1 11 4
25	F	F	F	10 0	u9 9F	8 4	u6 8F	u9 5F	11 3	11 6	12 0	u12 0R
26	F	F	F	8 6	7 8	F	5 6 u6 7F	12 2	12 2	13 7	12 7	12 1
27	F	F	F	10 0	u9 9F	8 4	u6 8F	u9 5F	11 3	11 6	12 0	u12 0R
28	F	F	F	10 0	u9 9F	8 4	u6 8F	u9 5F	11 3	11 6	12 0	u12 0R
Count	19	23	22	25	26	26	26	25	27	25	25	24
Median	11 4	10 9	9 3	8 3	7 5	6 9	6 4	9 8	11 8	12 3	11 9	12 0
Mean	11 2	10 5	9 2	8 4	7 7	6 8	6 4	9 9	11 8	12 4	12 1	12 0

Sweep 1 0 Mc to 25 0 Mc in 27 seconds.

Characteristic foF2
Unit Mc
Month February 1958

TABLE 12
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 C	11.4 C	11.7 C	12.1 C	12.2 C	U11.8s 12.7	U10.0R U12.2R	F U10.8I	F F	F U9.6I	F F	C F	1
13.3	13.1	13.8	13.5	12.5	11.0	9.3	U7.9F	U8.2F	U8.7F	1	F	2
13.0	14.8	15.3	14.9	14.5	U13.8R	U13.3R	F	F	F	F	U11.5F	3
13.8	13.9	14.0	13.8	C	U11.0W	9.5	8.9	10.0	10.4	11.0	U11.8R	4
												5
12.6	13.8	14.0	13.8	13.2	12.5	12.3	11.5	U11.3R	12.6	13.8	13.3	6
12.1	12.7	13.7	U11.2S	14.0	13.3	12.9	U11.2R	13.2	U12.3F	U11.7F	F	7
10.4	11.1	12.3	12.2	13.1	13.1	12.1	11.3F	10.7	10.8	U11.2R	11.4	8
12.6	13.6	13.8	14.2	14.9	13.8	12.9	U11.6I	F	F	F	U12.8F	9
10.1	10.1	10.7	11.0	11.5	11.5	11.0	U9.2W	F	F	F	U11.3F	10
7.4 C	8.8 C	9.5	U8.4W	10.8	C	10.9	11.2	10.6	10.7	U9.1R	C	11
		9.4	10.0	10.2	10.5	10.4	9.0	9.4	10.3	11.6	13.6	12
11.2	11.8	12.0	11.6	11.3	9.9	8.8	8.0	8.4	8.7	9	10.8	13
11.3	12.0	12.0	11.4	11.1	11.1	11.2	10.1	9.1	10.1	9.8	10.1	14
12.8	12.8	12.6	13.4	12.0	11.5	10.8	9.2	8.5I	F	F	1	15
12.3	13.9	13.7	14.2	14.1	13.9	12.3R	U9.5W	F	U8.7I	F	F	16
11.2	14.9	U15.2S	U15.2S	U15.1S	11.6H	13.5H	11.0H	U11.1H	U13.0I	13.2	13.0	17
14.6	13.3	15.6	14.0	C	U12.3RH	10.1	C	U8.4F	9.0	9.2	U9.1S	18
13.1	14.6	15.1	U13.2S	U15.1S	14.3H	R	U11.1RH	R	13.4H	U14.1R	13.6	19
13.0	13.8	14.3	14.8	14.8	14.7	U14.2R	12.7	U13.6I	R	F	12.1	20
13.0	14.2	14.5	14.9	14.3H	13.8H	U11.6SH	U9.5R	10.5	11.3	U11.8S	12.7	21
12.4	13.0	13.6	13.8	13.7	U13.0R	12.3	10.6	9.7F	11.1	13.5	13.6	22
C	C	C	12.6	12.9	12.6	U11.8s	10.9	10.6	F	U11.8s	11.8	23
10.8	11.0	11.3	11.8	U11.8R	U11.8s	11.1	10.7	10.7	U11.8R	U13.0R	U12.7R	24
11.2	11.6	11.9	12.5	12.8H	12.8	U11.9S	10.6	F	F	F	F	25
11.8	12.1	12.1	13.0	13.2	12.9	12.7	10.9	F	F	F	U11.0I	26
11.2	11.4	11.8	12.2	12.2	U11.9S	U11.0S	8.4	F	U8.9F	U8.6F	F	27
12.1	12.8	13.7	14.5	14.3	13.5	12.9	11.4	F	F	F	F	28
25	25	26	27	25	27	27	25	17	18	16	18	Count
12.4	12.9	13.6	13.5	13.1	12.8	11.8	10.7	10.5	10.6	11.6	12.1	Median
12.2	12.7	13.0	13.1	13.0	12.6	11.6	10.3	10.3	10.6	11.4	12.1	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2
 Unit · Mc
 Month February 1958

TABLE 12—contd.
 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	10 0F	9 3	8 4	8 2	8 1	6 0	7 4	9 5	10 6	10 4	10 8	10 9
2	F	7 6F	U7 2F	6 4F	6 6	6 3	F	U11 0F	12 4	C	C	C
3	U9 6F	9 9	9 2	F	U4 2F	F	6 8	9 7	11 5	12 2	12 8	12 9
4	F	F	F	7 9F	6 6	F	F	10 4	11 8	12 0	12 5	12 9
5	F	U8 7F	U8 6F	9 2F	9 8	9 4	10 4	11 7	12 5	12 5	13 4	13 4
6	12 0	8 6	6 4	6 9	6 4	5 8	8 6	10 8	11 8	11 8	11 8	12 2
7	10 8	8 6	6 1	4 9	3 9	3 5	7 0	10 0	11 1	11 4	11 3	11 9
8	13 0F	10 4	7 4	7 4	6 3	5 5	7 6	10 3	10 4	10 0	9 8	10 1
9	11 4	10 5	8 0	U7 4s	7 0	5 4	7 6	11 2	12 2	12 0	11 8	12 4
10	12.4	F	8 5F	7 4	7 7	F	7 9	10 9	11 6	10 6	10 2	10 4
11	11 4F	12 1	11 4	11 4	10 5	10 7	10 5	11 0	13 5	14 4	U12 2W	8 2
12	5 2	4 6	4 8	F	4 4F	4 2	8 4	12 6	13 6	C	C	C
13	13 4	14 9	13 7	11 6	10 2	5 9	7 5	11 1	12 4	C	11 4	11 4
14	J12 0S	10 4	8 6	7 4	U7 1S	7 0	8 4	11 5	13 6	C	15 2	14 5
15	11 4	10 7	9 2	8 9	7 5F	6 4	U8 3F	10 8	12 7	13 7	C	13 2
16	9 2	U8 8F	8 0	F	U6 6F	U5 2F	U7 8F	10 8	U11 8S	11 7	11 6	12 0
17	11 4	10 6	U9 3S	7.5	J6 4R	5 2	U7 4S	10 2	11 4	11 4	12 4	13 8
18	11 3	10 6	U9 8S	8 8	9 0	U7 4S	8 8	11 4	J12 0S	13 2	13 9	14 3
19	11 5	10 4	U9 4S	8 5	7 8	6 9	8 3	10 2	11 4	12 0	12 6	12 8
20	11 0	U9 5S	8 7	U7 2S	5 6	3 6	U7 4S	11 0	13 0	13 0	12 4	12 8
21	10 7	9 8	U7 6S	U7 2S	7 5	8 6	10 8	13 0	13 6	12 9	12 4	12 7
22	11 1	U9 9S	U9 1S	8 3	8 0	8 9	U9 6S	12 3	13 8	13 8	12 2	12 2
23	11 1	U9 5S	8 8	9 2	7 9	6.4	8 5	10 8	C	C	C	C
24	11 2	C	9 4	7 7	7 3	6 1	8 4	11 6	12 5	12 2	11 1	10 7
25	11 9	10 6	9 0	7 8	6 5	4.2	U7 5S	11 0	12 7	12 1	11 0	11 0
26	F	U9 4F	8 8	8 3	7 1	5 1	7 9	11 3	13 1	13 4	12 4	11 9
27	F	F	F	U9 2F	F	J6 2S	8 3	11 2	12 8	12 0	11 5	11 3
28	F	F	U9 6S	F	U9 5S	6 8	8 4	10 7	11 5	11 8	12 0	12 2
Count	22	23	26	24	27	25	26	28	27	23	24	25
Median	11 4	9 9	8 8	7.8	7 1	6 1	8 3	11 0	12 4	12 0	12 1	12 2
Mean	11 0	9 8	8 6	8 1	7 2	6 3	8 3	11 0	12 3	12 2	12 0	12 1

Sweep 1 0 Mc. to 25 0 Mc in 27 seconds

Characteristic foF2
 Unit : Mc
 Month February 1958

TABLE 12—*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
11.3 C	11.6 C	12.0 C	12.1 C	12.4	11.3H 12.9 U12.6R	8.6F 12.0S U12.0S	F U10.5I U7.6F	F F U8.1I	F F F	F F U11.5I	8.0 F F	1 2 3
13.2	13.4	13.8	13.0	11.7	10.0	8.7 U12.6R	F F	1 10.5	10.6	U11.5I U11.2R	U11.0F 12.9	4 5
14.1	15.2	14.9	14.8	11.2	U13.1R	U12.6R	9.2	10.5	10.6	U11.5I U11.2R	U11.0F 12.9	6
11.1	14.0	13.8	13.3	12.0	10.1	9.5	9.2	10.5	10.6	U11.5I U11.2R	U11.0F 12.9	7
13.2	14.0	13.9	13.5	13.0	12.8	U12.0S	U11.2I	U11.8S	13.4	13.9	12.7	8
12.2	13.0	13.9	U14.3R	13.7	12.9	12.8	U11.6R	U12.8I	U12.0F	13.9	F	9
10.8	11.8	12.2	12.5	13.1	U13.3R	U11.8S	11.1	10.8	10.6	11.3	11.9	10
12.8	13.6	14.1	14.1	14.0	13.1	12.7	F	F	F	F	U13.0F	11
10.3	10.5	10.8	11.2	U11.6S	U11.5S	U10.0S	8.7I	10.2I	U10.8F	F	11.6F	12
8.1 C	9.4 9.1	U8.1W 9.7	8.9 10.0	10.4 10.4	10.0 10.4	10.3 10.0	12.3 9.2	11.8 9.6	U9.7S 11.0	8.5 12.7	6.5 13.8	13
11.6	12.0	12.0	11.6	10.7	9.3	8.4	8.2	8.5	9.0	9.9	11.4	14
13.7	12.6	11.6	11.4	11.3	11.5	10.9	U9.5S	10.0	U9.9S	10.1	10.8	15
13.0	12.8	12.5	12.2	12.0	11.2	10.0	8.8F	F	F	F	F	16
12.6	13.3	14.0	11.3	14.3	13.0	J11.2R	U8.8F	F	F	F	U11.8I	17
14.6	15.1	U15.2S	U15.0S	14.8	14.2H	12.6H	U11.2H	U12.1H	13.2	13.2	12.5	18
14.8	15.7	15.2	14.8	C	U11.8RH	U9.0S	F	8.8	9.2	U9.4S	10.2	19
13.8	11.8	15.4	U15.2S	U14.5RH	J13.6RH	11.1H	U11.5RH	U12.4RH	U13.2RH	13.8	13.0	20
13.1	U11.2R	14.6	11.8	14.8	14.6	13.1	U12.1R	U13.0I	F	12.8	12.1	21
13.6	14.5	14.7	14.8	14.2H	13.1H	U11.7H	9.5	11.1	U11.5RS	12.4	12.5	22
12.8	13.4	13.8	13.8	13.6	12.8	11.5	10.3	U10.6F	12.5	13.9	13.1	23
C	C	C	12.6	U12.8R	U11.7S	11.6	10.8	10.9I	U11.8S	12.0	11.5	24
11.0	11.1	11.6	11.7	U11.9S	U11.9S	11.0	U10.4R	11.0	13.0	U12.9R	12.2	25
11.4	11.7	12.2	12.8	12.9	12.5	U11.9S	F	F	F	U9.1I	F	26
11.9	12.3	12.6	13.0	13.0	13.0	U11.8S	U9.6F	F	F	F	F	27
11.2	11.6	11.9	J12.1S	12.2	U11.6S	U9.8S	U7.6F	F	8.7	F	F	28
12.6	13.2	14.2	14.3	U13.8R	13.5	R	F	F	F	F	F	29
225	26	26	27	27	28	27	22	18	17	17	20	Count
12.8	13.1	13.8	13.0	12.9	12.6	11.4	10.0	10.8	11.0	13.0	12.0	Median
12.5	12.9	13.0	13.0	12.8	12.1	11.0	10.0	10.7	11.2	11.7	11.6	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic foF₁
 Unit : Mc
 Month February 1958

TABLE 13
 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
2									L	L	L	L
3								L	L	L	L	L
4								L	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
12									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
Count												
Median												
Mean												

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foF1
 Unit - Mc
 Month February 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								1
C	C	C	C	C								2
L	L	L	L	L								3
L	L	L	L	L								4
L	L	L	L	L	C							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	C							11
C	C	L ⁶⁰	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 ^{LH}	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 ^{LH}	L	L	L	L							21
L	L	L	L	L	L							22
C	C	C	C	C	C							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L ^{LH}	L ^{LH}	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
												Count
												Median
												Mean

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic foF1
 Unit Mc
 Month February 1958

TABLE 13—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
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
Count												
Median												
Mean												

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds.

Characteristic foF1
 Unit . Mc
 Month : February 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									1
G	C	G	C									2
L	L	L	L									3
L	L	L	L									4
L	L	L	L	L								5
L	A	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
G	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L _H	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
G	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L _H	L _H	L								26
L	L	L	L	L								27
L	L	L	L	L								28
												Count
												Median
												Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic . foE
 Unit : Mc
 Month : February 1958

TABLE 14
 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
2								2.7	A	A	C	A
3								A	A	C	A	A
4								A	A	A	A	A
5								2.3	A	A	A	A
6								A	A	A	A	A
7								A	A	A	A	A
8								A	A	A	A	A
9								2.6	A	A	A	A
10								A	A	A	A	A
11								2.7	A	3.7	A	A
12								U ₃ OR	B	C	C	A
13								A	A	A	B	A
14								2.7H	3.3	3.6	A	A
15								2.5	A	A	A	C
16								2.6H	A	A	A	A
17								A	A	A	A	A
18								A	A	A	A	A
19								A	A	A	A	A
20								2.6F	A	A	A	A
21								2.7	A	A	A	A
22								A	A	U ₃ 7A	A	A
23								A	C	C	C	A
24								2.5	A	A	A	A
25								A	A	A	A	A
26								2.7H	A	A	A	B
27								A	A	A	A	A
28								A	A	A	A	A
Count								12	1	3		..
Median								2.6		..	.	..
Mean								2.6		..	.	..

Sweep] 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE
 Unit : Mc
 Month : February 1958

TABLE 14
 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	3.6	A	A							1
G	C	C	C	C								2
A	4.2	A	A	A	A							3
A	A	4.1	A	A								4
4.3	4.3	A	A	C								5
A	A	4.0	3.7	A	A							6
A	4.2	U4 IR	4.1	A	A							7
A	A	A	3.8	A								8
B	B	U4 IR	3.9	3.4	A							9
A	A	A	3.8	A	A							10
A	B	A	U3.6R	B	C							11
C	C	A	A	U3.3A	A							12
A	A	A	A	A	A							13
A	A	A	A	A	A							14
A	A	A	A	A	A							15
A	A	A	A	A	A							16
4.2	4.2	4.1	3.6	A	A							17
A	4.1	4.0	A	C	A							18
A	4.1	4.0	A	A	A							19
A	A	4.0	3.6	A	A							20
A	3.9	4.0	A	A	A							21
4.0A	A	A	A	A	A							22
C	C	C	A	A	U2.8A							23
A	A	A	A	A	A							24
A	A	A	A	A	A							25
A	A	A	A	A	A							26
A	A	A	U3.7R	A	A							27
A	A	A	A	A	A							28
3	7	9	10	2	1							Count
.	4.2	4.0	3.7	.	.							Median
..	4.1	4.0	3.7		.							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE
 Unit : Mc
 Month : February 1958

TABLE 14—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
2								3.0 A	A	C	C	C
3								A	A	A	A	4.2 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	B	A
9								A	A	A	A	A
10								A	A	A	A	A
11								A	3.7 B	A	A	A
12							2.6	R	A	C	C	C
13								A	A	C	A	A
14								R	3.6 A	C	A	A
15							2.1	A	A	A	C	A
16								A	A	A	A	A
17								A	A	A	A	4.1 A
18								A	A	A	A	A
19								A	A	A	A	A
20							2.1	A	A	A	A	A
21								A	A	A	A	A
22								A	A	A	A	A
23								A	C	C	C	C
24								A	A	A	A	A
25								A	A	A	B	A
26								A	A	A	A	B
27							U2.0R U2.1R	A	A	A	A	A
28							R	A	A	A	A	A
Count							5	1	2			2
Median							2.1	.	.		..	..
Mean							2.2	.	.		..	..

Sweep 1°0 Mc to 25°0 Mc. in 27 seconds.

Characteristic : foE
 Unit : Mc
 Month : February 1958

TABLE 14—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
C	C	C	C									2
A	A	A	A	A								3
A	A	A	A	A								4
4.3	4.2	A	A									5
1.3	A	3.9	3.5	A	A							6
A	A	U4 1R	3.6	A								7
A	4.0	3.8	B									8
B	4.2	4.0	U3 7R	F								9
A	A	A	A	A								10
A	B	R	B	B								11
C	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
4.2	4.1	A	3.3	A								17
4.1	4.1	3.7	A	C								18
4.2	4.1	3.8	A	A								19
A	A	A	U3 4F	A								20
U4.0A	A	U3 8A	U3 5A	A								21
A	A	A	3.2	A								22
C	C	C	U3 5R	A								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
A	A	U3 7R	U2 5R	A	A							28
6	6	8	9	.	.							Count
4.2	4.1	3.8	3.5	.	.							Median
4.2	4.1	3.8	3.4	.	.							Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : foEs
 Unit : Mc
 Month : February 1958

TABLE 15
 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 6	9 0	11 0	11 8
2								G	8 4	10 6	C	C
3								8 8	10 4	C	12 0	11 4
4								U7 05	10 0	10 6	11 8	11 8
5							4 0	G	9 8	10 6	11 4	11 4
6								7 8	10 4	10 0	12 0	11 6
7								8 6	10 0	10 8	12 0	12 0
8								8 0	10 0	10 0	10 6	11 0
9							3 2	G	8 8	10 0	12 0	11 6
10								U7 05	10 0	9 8	11 6	11 8
11								G	9 0	G	11 6	10 4
12					2 8		2 6	G	7 6	C	C	C
13								6 6	8 8	10 0	11 0	12 0
14								G	G	G	11 4	11 8
15								G	7 4	7 8	11 0	C
16								G	10 2	11 4	12 4	12 4
17							4 8	8 4	10 4	11 0	12 0	10 0
18								8 4	9 8	10 0	12 4	12 0
19								9 0	10 8	10 6	12 4	12 8
20								6 8	10 2	11 0	12 2	12 2
21								G	9 0	10 8	11 2	11 6
22									7 6	10 6	12 0	12 0
23								7 0	C	C	C	C
24								G	8 4	9 4	12 0	11 6
25								7 0	9 0	11 0	11 5	12 0
26								G	U10 28	10 8	12 6	12 0
27								U7 05	12 0	11 1	12 2	12 2
28								6 7	11 2	12 0	12 2	12 1
Count					1		1	27	27	25	25	24
Median								7 0	9 8	10 6	12 0	11 8
Mean								7 6	9 6	10 4	11 8	11 7

Sweep 1 0 Mc. to 25 0 Mc in 27 seconds

Characteristic : foEs
 Unit : Mc
 Month : February 1958

TABLE 15
 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
11.2	11.4	10.8	10.0	8.0	6.8							1
C	C	C	C	C								2
9.6	8.8	9.2	10.6	8.4	7.8							3
10.4	9.0	G	10.0	8.0								4
G	G	10.0	10.0	C						4.2		5
12.0	9.6	G	G	8.1	8.0			5.0				6
11.6	10.0	G	9.4	8.0	8.0							7
11.4	11.8	10.6	G	7.0	6.8			4.0				8
11.0	10.0	G	G	7.0	7.0							9
11.4	12.4	12.0	10.8	10.0	8.0							10
8.0	8.4	8.6	G	G	C							11
C	C	9.0	10.0	8.2	8.0	3.6						12
11.6	10.8	11.0	11.0	7.8	6.8							13
11.8	11.8	12.0	11.4	8.2	7.0							14
11.6	11.8	12.0	11.0	9.0	7.8							15
12.2	11.6	9.8	7.8	8.6	8.1							16
G	G	G	4.1	5.2	8.4							17
7.8	G	G	10.0	C	7.6		C					18
10.4	G	G	4.2	8.4	6.8							19
12.6	10.8	G	7.8	8.2	7.8					5.8	3.0	20
12.0	G	G	10.6	8.2	7.2							21
11.6	11.2	11.0	10.4	8.2	8.0							22
C	C	C	10.0	8.6	7.0							23
11.5	11.6	10.8	11.6	8.4	7.0							24
12.2	12.0	11.4	10.6	8.4	7.0							25
12.6	12.0	10.8	9.1	8.6	8.4							26
12.1	11.9	12.1	11.6	9.0	8.6							27
12.4	8.8	8.6	G	8.6	8.0							28
25	25	26	27	25	24	1	..	2	..	2	1	Count
11.6	10.8	9.5	10.0	8.2	7.8	.	..	.	.	.	.	Median
11.3	10.8	10.6	9.6	8.2	7.6		..		..	.	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs
 Unit : Mc
 Month : February 1958

TABLE 15—*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								8 0	9 6	11 0	11 4	11.4
2								8 2	9 6	C	C	C
3								8 9	10 2	12 0	12 0	9 6
4								8 4	9.6	11 8	11 0	11 8
5								8 4	10 0	11 6	10 8	11 4
6								9 0	10 8	12 0	11 6	12.4
7								8 8	10 6	12 0	12 0	12 0
8								8 8	10 0	10 6	11 0	11.2
9								8 0	9 6	11 6	12.0	11 4
10		3.3						8 6	10 0	11 0	12.0	12 0
11								9 0	9 0	11 4	11 6	10 0
12				3.7			G	G	6 8	C	C	C
13								9 0	9 2	C	11.6	11 4
14								G	G	C	11 8	11 6
15							G	3 5	8 4	9 8	C	11 0
16								9 2	10 6	12 0	12 0	12 2
17							G	10 5	11 0	12.0	11 4	C
18								10 4	10 8	12 1	12 4	10 8
19					5.2			9 0	11 0	11 8	12.2	11.2
20							G	10 8s	10 8	12 4	12.6	12 2
21								8 2	10 2	12 0	11 6	12.0
22								8 8	10 0	11.6	12 0	12.0
23								8 6	C	C	C	C
24		C						6 6	9.6	12 0	12 0	11 6
25								8 4	10 0	11.2	11 5	12.2
26							G	8 8	10 8	12 0	12 1	12 2
27							G	10 0s	11.1	12 2	12 4	12 6
28							G	08 0s	11 6	12 1	12.6	11.4
Count	..	1	.	2	.	.	7	28	27	23	24	25
Median	8.7	10 0	12 0	12.0	11.6
Mean	8 6	10 0	11 7	11.8	11 5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs
 Unit : Mc
 Month : February 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
12.0	11.4	11.0	7.8	8.0								1
C	C	C	C									2
10.6	8.8	10.6	8.4	8.2								3
9.0	8.4	9.8	G	8.0								4
G	G	10.0	8.2									5
G	20.4	G	G	9.6	8.0				7.0			6
12.6	9.6	G	G	8.4					3.0			7
11.6	8.0	G	G	3.6				3.7				8
11.8	G	G	G	G			4.0					9
12.0	12.0	12.0	10.0	9.0	6.6							10
10.0	G	G	G	G								11
C	9.0	10.6	11.0	8.2	6.4					2.6		12
11.4	11.0	11.0	8.4	7.8	3.7							13
11.7	12.0	11.6	8.7	8.0	6.4							14
11.8	11.4	11.6	9.0	8.6	6.5				5.0			15
11.4	9.0	8.2	7.2	8.4	6.7							16
G	G	4.4	3.6	9.0				2.2				17
G	G	G	8.5	C	S							18
G	G	G	8.6	8.3								19
11.2	6.8	6.6	G	8.0						10.4		20
8.0	10.8	10.6	8.0	8.0								21
11.6	11.0	11.0	G	8.0								22
C	C	C	8.0	7.6								23
11.8	11.2	11.8	8.6	8.2								24
12.2	11.8	10.4	9.2	8.0								25
12.1	11.9	10.0	8.0	8.8								26
12.2	12.3	11.8	8.6	8.7								27
12.3	9.0	G	G	9.6	8.0							28
25	26	26	27	25	8		1	2	3	2	.	Count
11.6	9.3	10.0	8.0	8.2	6.6		.	.		..	.	Median
11.3	11.2	10.2	8.3	8.2	6.5			.	..	.		Mean

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic fbEs
 Unit : Mc
 Month . February 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								2 6	3 3	3 8	4 0	4 4
2									3 4	4 0	C	C
3								2 7	3 4	C	4 1	4 3
4								2 8	3 4	3 8	4 1	4 4
5							2 8		3 3	3 9	4 2	4 3
6								2 8	3 6	4 0	4 2	4 4
7								2 8	3 4	4 0	4 1	4 3
8								2 7	3 5	4 0	4 3	
9							1 9		3 4	4 0	4 2	4 4
10								2 8	3 4	4 1	4 1	4 4
11									3 5		4 2	4 4
12					2 4		2 0			C	C	C
13								2 7	3 4	4 0		4 4
14											4 1	4 2
15									3 3	3 8	4 0	C
16									3 3	3 8	4 2	4 3
17								2 6	3 3	3 8	4 0	4 2
18								2 8	3 4	3 9	4 0	4 2
19								2 6	3 4	4 0	4 1	4 3
20									3 2	3 8	4 0	4 2
21									3 3	3 8	4 0	4 2
22									3 2	3 6	4 0	4 2
23								2 7	C	C	C	C
24									3 3	3 8	4 2	4 4
25								2 8	3 5	4 0	4 3	4 4
26									3 3	3 8	4 3	
27								2 7	3 4	4 0	4 1	4 3
28								2 7	3 4	3 9	4 1	4 4
Count					1		3	15	25	23	24	22
Median								2 7	3 4	3 9	4 1	4 3
Mean								2 7	3 4	3 9	4 1	4 3

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic f_oE_s
 Unit Mc
 Month : February 1958

TABLE 16
 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	Day
4.4	4.2	4.0	3.7	3.6	2.8							1
C	C	C	C	C								2
4.3	4.2	5.3	3.8	3.5	2.9							3
5.3	4.1		3.8	3.1								4
		4.1	3.8	C						2.1		5
4.5	4.5			3.6	2.9			2.5				6
4.4	4.3		4.1	3.6	3.0							7
4.6	4.1	4.3		3.9				2.0				8
	4.3				2.8							9
4.6	4.3	4.1	3.7	4.1	3.1							10
4.6		4.1			C							11
C	C	4.1	4.0	3.6	3.0	2.0						12
4.5	4.4	4.2	3.9	3.6	2.9							13
4.5	4.4	4.2	3.8	3.4	2.8							14
4.3	4.2	4.0	3.8	3.5	2.8							15
4.2	4.4	4.0	3.8	3.6	2.8							16
			4.0	4.4	3.0							17
4.2			3.6	C	2.8		C					18
4.2			3.7	3.4	2.8							19
4.2	4.2			3.4	2.8					2.6		20
4.2			3.7	3.4	2.7							21
4.2	4.2	4.1	3.8	3.5	2.8							22
C	C	C	3.9	3.6	2.8							23
4.4	4.3	4.2	3.9	3.6	3.0							24
4.4	4.4	4.1	3.8	3.5	2.8							25
4.4	4.2	4.0	3.8	3.4	2.8							26
4.4	4.3	4.0	3.8	3.4	3.0							27
4.4	4.4	4.1		3.7	3.0							28
22	19	17	21	23	23	1	.	2	..	2	..	Count
4.4	4.3	4.1	3.8	3.6	2.8	.		.	.	..	.	Median
4.4	4.3	4.2	3.8	3.6	2.9				.	.	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic . fbEs
 Unit . Mc
 Month : February 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								3 0	3 6	4 0	4 3	4 3
2								3 1	3 6	C	C	C
3								3 1	3 7	4 0	4 3	4 3
4								3 1	3 7	4 0	4 1	4 5
5								3 1	3 6	4 0	4 2	4 4
6								3 1	3 7	4 0	4 3	4 4
7								3 1	3 7	4 0	4 3	4 4
8								3 1	3 8	4 0		4.8
9								3 2	3 6	4 0	4 3	4 4
10		2 4						3 2	3 6	4 0	4 4	4.5
11								3 1	3 7	4 0	4 2	4 5
12										C	C	C
13								3 0	3 7	C	4 3	4 4
14										C	4 3	4 4
15								3 0	3 6	4 0	C	4 5
16								3 0	3 6	4 1	4 2	4 3
17								3 0	3 6	4 0	4 1	4 2
18								3 1	3 6	4 0	4 1	4 2
19					3 4			3 1	3 7	4 0	4 2	4 4
20								3 0	3 6	3 9	4 0	4.2
21								3 0	3 6	3 9	4 2	4.3
22								3 0	3 5	3 9	4 0	4.2
23								3 0	C	C	C	C
24		C						3 0	3 6	4 0	4 3	4 5
25								3 0	3 8	4 1	4.6	4 4
26								3 1	3.6	4 0	4 3	
27								3 1	3 7	4 1	4 3	4.5
28								3 1	3 6	4 0	4 3	4.4
Count		1	.	1			.	2 6	25	23	23	23
Median					3 1	3 6	4 0	4 3	4 4
Mean	.	.	.					3 1	3 6	4 0	4 2	4.4

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic f_oF₂
 Unit Mc
 Month - February 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	4.1	3.9	3.7	3.2								1
C	C	C	C									2
4.3	4.2	4.4	3.6	3.2								3
5.7	4.3	4.0	3.7	3.2								4
		4.0										5
	8.0			3.8	2.6							6
4.4	4.7			3.2					2.7			7
4.5	4.4						2.4	2.8	2.4			8
4.4	4.3	4.0	4.2	4.0	2.5							9
												10
4.6												11
C	4.5	4.0	3.7	3.4	2.5					2.0		12
4.4	4.3	4.0	3.8	3.2	2.4							13
4.4	4.4	4.0	3.7	3.2								14
4.3	4.2	4.0	3.6	3.1					2.3			15
4.2	4.2	4.0	4.0	3.2								16
		4.3		3.6								17
			3.5	C	2.8							18
4.2	4.1	4.0		3.1								19
				3.2						2.8		20
4.2	4.1	3.8	3.8	3.1								21
4.2	6.0	4.1		3.1								22
C	C	C	3.8	3.2								23
4.4	4.4	4.0	3.8	3.1								24
4.5	4.4	4.0	3.8	3.1								25
4.3	4.1	4.0	3.7	3.1								26
4.4	4.1	4.0	3.6	3.2								27
4.5	4.2			3.3	2.5							28
19	20	18	17	22	6		1	1	3	2		Count
4.4	4.3	4.0	3.7	3.2	2.5		.	.	.	.	.	Median
4.4	4.6	4.0	3.7	3.3	2.6		.	.	.	.	.	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin
 Unit . Mc
 Month : February 1958

TABLE 17
 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	2.8	2.4	2.0	2.0	1.8	2.0	1.6	1.9	2.2	2.5	2.6	3.0
2	2.6	2.3	2.4	2.1	1.8	1.8	1.6	2.5	2.4	2.7	C	C
3	1.8	2.0	2.1	1.8	1.8	2.2	1.8	2.3	2.4	C	2.8	3.0
4	2.2	2.2	2.3	2.3	2.4	2.2	1.7	2.2	2.4	2.7	2.7	3.0
5	2.1	2.0	2.0	2.3	2.1	2.3	1.4	2.4	2.5	2.6	2.8	3.0
6	1.7	2.6	1.7	1.8	2.4	2.2	1.5	2.2	2.7	2.8	2.8	3.0
7	2.0	1.6	1.7	1.8	1.7	1.7	1.5	2.1	2.3	2.7	2.8	3.1
8	2.5	2.3	2.1	2.5	2.1	2.2	1.7	2.2	2.4	2.8	3.2	5.0
9	C	1.9	2.1	2.1	1.8	1.9	1.9	2.1	2.4	2.8	3.0	3.2
10	2.2	2.4	2.4	2.2	2.3	2.1	1.8	2.2	2.5	2.8	2.8	3.0
11	2.1	2.2	1.8	2.0	2.0	1.8	1.8	2.3	2.3	3.0	3.0	3.1
12	1.7	1.6	1.5	2.3	1.6	2.1	1.6	2.5	3.6	C	C	C
13	1.9	2.0	2.0	2.2	2.3	2.4	1.7	2.1	2.4	2.9	4.4	3.2
14	1.6	1.6	1.6	2.1	1.8	1.7	1.7	2.2	2.7	3.0	3.0	3.2
15	2.2	1.7	1.9	1.8	1.6	1.6	1.6	2.2	2.3	2.8	2.8	C
16	1.9	1.8	2.0	1.7	1.8	1.7	1.5	1.8	2.4	2.8	3.1	3.0
17	1.7	1.9	1.6	2.2	1.6	1.7	1.5	2.0	2.2	2.4	2.8	3.2
18	1.6	1.6	1.6	1.6	2.0	2.1	1.4	2.3	2.6	3.0	3.0	3.0
19	2.0	1.8	1.4	1.5	1.8	2.0	1.5	2.3	2.6	3.0	3.0	3.2
20	2.0	1.7	1.6	1.4	1.5	1.7	1.3	1.7	2.3	2.8	2.8	3.2
21	1.7	2.0	1.7	1.7	1.8	1.7	1.6	2.0	2.3	2.6	2.8	3.0
22	1.9	2.0	1.8	1.9	1.9	2.0	1.5	2.4	2.4	2.5	3.0	3.0
23	2.0	1.7	2.1	1.6	1.6	1.8	1.5	1.9	C	C	C	C
24	1.7	2.0	2.1	1.8	1.7	2.1	1.5	1.7	2.0	2.6	2.6	2.0
25	1.7	1.7	2.0	1.9	2.0	2.0	1.6	1.9	2.4	2.7	3.0	3.0
26	1.7	2.3	2.2	1.7	1.7	1.8	1.6	1.9	2.4	2.6	3.5	5.6
27	2.1	2.2	1.7	1.7	1.6	1.6	1.6	1.8	2.4	2.7	2.9	3.0
28	2.2	1.9	1.9	1.6	1.6	1.6	1.6	1.6	1.1	2.5	2.5	3.0
Count	27	28	28	28	28	28	28	28	27	25	25	24
Median	2.0	2.0	2.0	1.8	1.8	2.0	1.6	2.2	2.4	2.7	2.8	3.0
Mean	2.0	2.0	1.9	1.9	1.9	1.9	1.6	2.1	2.4	2.7	2.9	3.2

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic fmin
 Unit · Mc
 Month : February 1958

TABLE 17
 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
3.2	3.0	2.7	2.5	2.3	2.3	1.7	2.3	2.2	2.2	2.6	C	1
C	C	C	C	C	2.9	1.7	2.5	2.2	2.0	2.0	2.0	2
3.0	3.0	2.7	2.4	2.8	2.2	1.8	2.4	2.3	2.2	2.0	2.1	3
3.0	3.0	3.0	2.5	2.6	2.4	2.0	1.8	2.2	2.2	2.1	1.9	4
3.3	3.1	3.0	2.4	C	2.8	1.8	2.0	2.0	2.1	2.0	2.5	5
3.0	3.1	3.1	3.0	2.5	2.2	1.8	1.5	1.7	2.2	2.5	1.8	6
3.2	3.1	3.0	2.4	2.5	2.2	1.9	1.8	2.0	3.0	2.2	2.2	7
3.3	3.0	3.0	2.7	3.0	3.0	2.0	2.4	1.9	2.4	3.0	2.1	8
4.6	3.8	3.6	3.0	2.8	2.2	2.0	2.2	2.2	2.4	2.5	2.6	9
3.1	3.0	2.7	2.4	2.6	2.0	1.8	2.0	2.2	1.7	2.3	2.2	10
3.6	4.8	3.2	2.9	3.7	C	2.0	1.6	2.6	2.4	2.0	C	11
C	C	3.0	3.1	2.6	2.0	1.5	2.0	2.2	2.0	1.9	2.4	12
3.2	3.2	2.8	2.5	2.5	2.2	1.8	1.9	1.7	1.7	1.7	2.3	13
3.2	3.2	2.9	2.6	2.4	2.2	1.7	1.8	1.4	1.9	1.6	2.2	14
3.0	3.0	2.9	2.4	2.3	2.2	1.8	1.8	2.1	2.3	2.2	2.3	15
3.0	3.1	2.8	2.5	2.5	2.2	1.8	2.2	2.0	2.1	2.0	2.2	16
3.6	3.0	3.2	2.8	3.2	2.4	1.8	2.0	2.0	1.7	1.8	1.7	17
3.2	3.4	2.8	2.6	C	2.2	1.8	C	1.8	2.4	1.8	2.2	18
3.1	3.5	3.0	2.4	2.4	2.7	1.7	2.0	2.0	1.8	1.7	1.6	19
3.1	3.0	3.0	2.8	2.2	2.2	1.7	1.6	1.7	2.1	2.0	2.0	20
2.9	3.2	2.7	2.3	2.4	1.9	1.7	1.5	1.7	2.1	2.0	1.8	21
3.0	3.1	2.7	2.4	2.8	2.2	2.2	1.7	1.9	2.1	1.8	1.9	22
C	C	C	2.7	2.6	2.2	1.9	2.1	2.0	2.2	1.9	2.0	23
2.0	2.0	3.0	2.4	2.8	2.0	1.8	2.2	2.2	2.0	1.9	2.1	24
3.0	3.0	3.0	2.8	2.6	2.2	1.9	2.0	2.0	2.2	2.4	2.9	25
3.1	2.8	2.6	2.5	2.6	2.2	1.9	1.7	2.0	2.1	2.0	2.0	26
3.1	3.0	2.9	2.5	2.4	2.2	1.9	1.7	2.1	2.0	1.9	1.8	27
3.0	3.0	3.0	2.5	2.3	2.2	3.0	1.7	2.2	2.3	2.0	2.2	28
25	25	26	27	25	27	28	27	28	28	28	27	Count
3.1	3.0	3.0	2.5	2.6	2.2	1.8	2.0	2.0	2.1	2.0	2.1	Median
3.2	3.1	2.9	2.6	2.6	2.3	1.9	1.9	2.0	2.1	2.1	2.0	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin
Unit : Mc
Month : February 1958

TABLE 17—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	2.7	2.4	2.0	1.6	2.1	2.0	2.1	2.2	2.4	2.6	3.1	3.0
2	2.6	2.6	2.6	2.3	2.0	1.9	2.2	2.4	2.6	C	C	C
3	1.8	1.6	1.8	2.2	1.9	2.2	2.2	2.4	2.6	2.6	3.0	3.0
4	2.1	2.2	2.3	2.2	2.3	2.2	2.1	2.3	2.6	2.6	2.8	2.9
5	2.0	2.1	2.2	1.6	2.0	2.5	2.8	2.4	2.6	2.6	3.0	3.1
6	1.9	2.0	2.2	1.8	1.9	2.3	2.2	2.5	2.6	2.6	2.9	3.0
7	1.7	1.9	1.6	2.2	1.7	2.0	2.2	2.2	2.6	2.6	2.9	3.2
8	2.0	2.6	2.2	2.0	2.3	2.4	2.4	2.1	3.0	3.0	4.5	4.0
9	1.7	1.7	2.3	2.1	2.0	1.8	2.4	3.0	2.4	2.7	3.0	3.4
10	1.8	2.2	2.1	1.7	2.2	2.2	2.3	2.4	2.6	3.0	3.0	3.2
11	2.0	2.1	2.2	1.8	1.7	2.0	2.2	2.2	2.7	2.6	3.0	3.5
12	1.9	1.7	1.9	2.0	1.9	2.1	2.2	2.8	3.6	C	C	C
13	1.8	1.9	1.9	2.2	2.0	2.2	2.3	2.2	2.6	C	3.2	3.1
14	1.7	1.8	1.8	2.0	2.1	2.2	2.2	2.5	3.0	C	3.0	3.3
15	1.8	1.5	1.8	1.8	1.6	1.7	1.9	2.2	2.7	2.7	C	3.0
16	2.2	1.9	1.7	1.7	2.0	2.0	2.2	2.0	2.5	3.2	3.1	3.0
17	1.7	1.7	1.7	1.8	1.7	1.7	2.0	2.1	2.4	2.5	3.0	3.1
18	2.0	1.4	1.5	1.6	1.9	1.7	2.4	2.4	2.6	2.8	3.0	3.0
19	1.8	1.5	1.6	1.6	2.1	2.4	2.4	2.6	2.8	3.0	3.0	3.2
20	1.7	1.4	1.6	1.4	1.9	1.8	1.8	2.3	2.5	2.8	3.0	3.0
21	2.2	2.1	1.8	1.9	1.7	1.8	1.9	2.2	2.5	2.5	2.8	2.8
22	1.9	2.1	1.8	1.8	2.0	2.0	2.2	2.2	2.4	2.6	3.0	3.2
23	1.8	2.0	1.6	1.7	1.7	1.7	1.6	2.0	C	C	C	C
24	2.2	C	2.2	1.8	1.8	2.3	2.1	1.9	2.4	2.5	2.9	2.2
25	1.8	2.0	1.8	1.6	2.0	1.7	1.9	2.2	2.7	2.6	3.8	3.0
26	2.0	2.2	2.0	1.6	1.6	1.9	1.9	2.1	2.5	2.5	3.2	4.4
27	2.0	1.8	1.6	1.6	1.9	1.9	1.8	1.8	2.8	2.6	2.9	3.0
28	2.1	2.0	2.0	1.7	1.6	1.8	1.8	1.9	2.2	2.3	2.6	3.1
Count	28	27	28	28	28	28	28	28	27	23	24	25
Median	1.9	2.0	1.8	1.8	1.9	2.0	2.2	2.2	2.6	2.6	3.0	3.1
Mean	2.0	1.9	1.9	1.8	1.9	2.0	2.1	2.3	2.6	2.7	3.1	3.2

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin
 Unit : Mc
 Month February 1958

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

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds.

Characteristic . h'F2
 Unit Km
 Month February 1958

TABLE 18
 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
2									L	L	L	L
3								L	L	L	L	L
4									L _H	L	L	L
5									L	L	L	L
6								L	L	L	L	L
7									L	L	L	L
8									L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11									L _H	L	L _H	L
12									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
Count												..
Median										.		.
Mean									.	.	.	

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic h'F2
 Unit : Km
 Month February 1958

TABLE 18
 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
C	C	C	C	C								2
L	L	L	L	L								3
L	L	L	L	L								4
L	L	LH	L	C								5
L	L	LH	LH	LH								6
L	L	LH	LH	LH								7
L	L	L	L	L								8
L	L	LH	LH	LH								9
L	L	L	LH	LH								10
L	L	L	L	L	C							11
C	C	LH	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
U400L	U120L	U10	U20	U50	L							17
L	L	L	L	C	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	LH	L	L	L	L							21
L	L	L	L	L	L							22
C	C	C	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
1	1	1	1	1	.							Count
..					.							Median
..												Mean

Sweep 1.0 Mc. to 2.5 Mc. in 27 seconds.

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

TABLE 18—*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
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 ^H	L	L ^H	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
Count												
Median												
Mean												

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'F2
 Unit Km
 Month February 1958

TABLE 18—contd.
 Ionospheric Data
 75 0°E Mean Time

Latitude : 10.2° E
 Longitude : 77.5° N

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L									1
C	C	C	C									2
L	L	L	L									3
L	L	L	L									4
L	LH	L	L	LH								5
L	A	LH	LH									6
L	L	LH	LH									7
L	L	L	L	L								8
L	LH	LH	LH									9
L	L	L	L									10
L	L	L	L	L								11
C	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
u ₄₁₀₀ L	u ₄₀₀₀ L	400	440	460								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	u ₄₂₀₀ L	L	L								21
L	L	L	L	L								22
C	C	C	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
I	I	2	I	I								Count
..	.											Median
												Mean

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds.

Characteristic : h'F
 Unit : Km
 Month : February 1958

TABLE 19
 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	240	240	260	255	240	220	260	260H	240	230	215	215
2	270	275	260	U250F	245	240	245	260	240	230	C	C
3	235	230	U225F	U220F	225	250	290	265	245	C	225	210H
4	260	250	255	255	250	240	260	255	240	225	220H	200
5	240	240	280	300	295	240	235	260H	240	220H	215	210H
6	235	220	230	265	300	280	270	265	240	235	215	210
7	240	220	215	230	225	250	295	270	245	220	210	195H
8	275	235	220	255	265	230	230	260	240	230	210H	H
9	C	230	225	245	230	235	250	260	240	230	220	220
10	250	245F	U240F	205	270	240	U230F	260	235	230	220H	220
11	275	265	260	240	260	260	235	235	240	220	240	240
12	285	355	430	F	F	U360F	340	260	240	C	C	C
13	235	235	240	255	240	205	220	250	230	220	220H	205
14	235	220	210	240	260	240	220	250	235	220	210H	210
15	260	245	235	240	220	230	260	250	230	225	220	C
16	255	240	230	220	240	240	260	250	240	225	220	220
17	240	240	220	235	220	220	270	260	230	220	200H	215
18	240	235	220	240	260	240	255	260	240	235	220	210
19	220	225	240	240	240	230	240	260	240	225	220	220
20	220	225	220	220	220	220	260	250	235	220	215	210
21	220	225	225	270	340	315	245	245	230	220	205	210
22	230	230	225	240	260	265	220	250	240	220	215	200H
23	220	230	255	250	220	220	270	260	C	C	C	C
24	240	250	235	230	240	235	240	250	240	220	215	200
25	230	220	225	235	230	230	255	255	235	230	220	210
26	270	260	240	240	235	220	250	250	240	230	225	H
27	280	255	235	240	230	225	245	250	240	230	220	210
28	U280F	240	230	240	240	225	240	260	240	230	220	210
Count	27	28	28	27	27	28	28	28	27	25	25	22
Median	240	240	230	240	240	240	250	260	240	225	220	210
Mean	245	240	240	245	250	245	255	255	240	225	215	210

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic, h'F
 Unit Km
 Month February 1958

TABLE 19
 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
210H C	205H C	205H C	220 C	240 C	260H 260H	305H 300	F 415	510 U460F	400 U410F	320 U400F	C F	1
205 A	200H 200H	220 A	220 210H	235H 235H	260 260H	305 300H	F 420F	F 410	U385F 360	U330F 300	U295F 245	2
215H	215H	215	220	C	270H	315	410	335	260	260	250	3
215H	230	230	225	250	270H	305H	385	365H	280	265	240	4
205H	215	225	230	240	270H	305H	360H	320	300H	315	285	5
200H	220	225	225	240	265H	305H	380H	340H	315	300	260	6
215	215	220	220	240	260H	300H	405H	F	U260F	F	U255F	7
220H	210	215	215	U245A	260	310	U450F	415	U330F	280	260	8
220H	220H	240	240	255	C	325	280	260	240	235	C	9
C	C	215	220	210H	260	300	310	U320F	280	260	245	10
200H	210	210	225	240	260	300	405	310	280	210	260	11
200H	200H	220	230	240	255	300	405	385	305	270	265	12
205	210	220	240	260	295	405	F	U460F	F	290	265	13
210H	215	220	220	240	260	300	U420F	U400F	340	280	270	14
220	220	220	220	U235A	260H	310H	310H	360H	280	250	210	15
220	220	215	210H	C	260	300	C	U340F	280	260	240	16
210	220	220	220	240	250	300	360F	300	240	240	240	17
200H	215	220	220	240	250	300	365	320	260	260	240	18
205	210	220	230	245	250	300H	410	335	275	260	235	19
210	205H	210H	220	235	260	300	400	380	280	235	230	20
C	C	C	235	240	260	300	400	380	270	240	240	21
205	210	225	230	240	260	290	400F	F	300	260	245	22
220	220	220	225	240	260	300	F	420F	390F	360	290	23
215	215	200H	220H	240	260	300	465	F	F	F	290	24
215	210	220	230	240	260	300	475	F	F	U345F	310	25
215	220	220	225	240	260	300	440	F	U435F	335	280	26
24	25	25	27	25	27	28	24	21	26	25	25	Count
210	215	220	220	240	260	300	405	360	290	265	255	Median
210	215	220	225	240	260	300	400	365	315	285	260	Mean

Sweep 10 Mc. to 25.0 Mc. in 27 seconds.

Characteristic $h'F$
 Unit . Km
 Month : February 1958

TABLE 19—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	255	245	260	255	225	220	285	245	235	220	215	210
2	U275F	275	U260F	250	245	235	280	250	235	G	G	C
3	225	220	220	U230F	U240F	F	285	250	230	225	220A	210H
4	260	240	255	245	240	240	280	245	235	220H	210H	210H
5	225	260	290	300	260	230	280	245	240	215H	105H	210
6	225	220	260	285	315	265	280	255	235	225	210	200H
7	230	215	220	240	220	270	290	250	240	210H	205	205
8	240	220	245	240	240	220	280	250	240	220H	B	220
9	245	215	235	250	235	220	280	250	230	220	220	215
10	240	U250F	250	265	260	U220F	280	245	230	225	225	220
11	280	260	260	240	275	240	250	250	230	235	240	235
12	305	400	420	F	U365F	U360F	270	240	230	C	C	C
13	235	230	240	255	220	205	260	240	220	C	210H	205H
14	230	220	220	260	250	235	250	245	230	C	210	20 H
15	260	230	240	230	225	230	275	240	230	220	C	205H
16	245	240	225	230	235	240	280	240	235	225	220	220
17	240	240	220	220	220	235	280	240	220	220	210	215
18	245	235	225	240	260	225	280	260	240	220	210	220
19	220	240	240	250	220	220	280	250	240	220	220	220
20	220	220	220	220	220	230	260	240	220	220	215	205
21	225	215	245	300	340	280	265	240	225	215	200	210
22	220	235	260	250	265	240	260	245	230	220	210	210
23	230	240	230	230	220	240	280	245	C	C	C	C
24	250	C	230	230	230	230	270	240	225	210	210	200
25	230	230	230	230	230	220	265	240	235	225	220	200
26	260	245	240	230	225	230	270	245	235H	220	215	220
27	280	240	245	240	235	220	270	245	235	220	215	210
28	260	240	230	240	235	220	280	245	235	225	210	210
Count	28	27	28	27	28	27	28	28	27	23	23	15
Median	240	240	240	240	235	230	280	245	235	220	210	210
Mean	245	240	250	245	250	240	275	245	230	220	215	210

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic h'F
Unit Km
Month February 1958

TABLE 19—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
210H C	220H C	205 C	230 C	250H 255H	285H 280	395 340	520F U450F	480 F	300 U390F	280 F	260 240	1
205H A	210H A	230 A	230 A	215H 220H	280 275H	360 360	F 480	U400F 350	U365F 340	U300F 280	275 245	2
220H	210	220	235	260	295	360	415	280	260	255	250	3
205H	A	225	240	265H	285H	360H	400H	310	280	250	245	4
220	230	230	230	250H	280H	315H	330H	300H	310H	300	275	5
215H	240	225	240	255	280H	305H	360H	320	300	270	260	6
210	215	220	230	245H	275H	355H	F	F	F	265F	255F	7
215H	210H	215	245	260	285	385	385	U370F	300	260	275	8
220	B	215	260	275	320H	330	260	240	240	240	245	9
200H	220	215	220	255	280	325	F	300	260	255	240	10
205H	210	215	230	240	280	350	385	305	260	250	240	11
205	200H	230	230	240	270	350	420	330	290	265	260	12
	210	220	230	240	275	345	U440F	U470F	U445F	F	290	13
205H	220	220	240	240	270	360	U100F	U400F	300	280	240	14
220	220	230	240	260	280H	370H	U430FH	300H	260	240	230	15
220	220	220	220	C	280	360	U380F	300F	260	260	240	16
220	220	220	220	240	260	340	320F	260	240	240	240	17
200H	205H	220	220	240	275	340	340	280	240	260	230	18
205	220	220	240	240	270H	350H	395F	300	260	240	225	19
200H	A	235	235	240	280	360	395	310	240	235	220	20
C	C	C	210	210	280	350	400	320	240	240	250	21
220	220	220	230	245	270	340	F	360F	280	250	240	22
220	220	220	230	250	280	360	480F	420F	380F	320	300	23
215	200	215H	230H	245	280	360	U500F	F	F	320	295	24
210	215	225	225	250	280	370	U550F	F	U365F	U330F	300	25
215	215	225	230	255	280	375	F	F	U375F	U290F	260	26
24	23	25	27	27	28	28	23	23	26	26	28	Count
210	215	220	230	245	280	360	400	310	285	260	250	Median
210	215	220	230	250	280	355	410	335	300	270	255	Mean

Sweep 1.0 Mc. to 2.5 Mc. in 27 Seconds.

Characteristic : h'E
 Unit : Km
 Month : February 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									105		A	105
2								160	110	105	C	C
3								A	A	105	A	105
4								115	110	105	A	A
5								120	110	105	105	105
6								A	110	A	105	105
7								A	105	A	A	A
8								120	105	105	A	B
9								125 ^M	110	A	110	A
10								120	110	A	A	A
11								120	105	105	A	A
12								140	B	C	C	C
13								120	110	A	B	A
14								120	115	115	A	A
15								120	110	A	A	C
16								120	110	110	A	A
17								120	110	105	110	A
18								120	115	115	110	105
19								A	120	115	110	105
20								120	115	A	A	110
21								120	110	110	A	110
22									110	110	110	110
23								115	C	C	C	C
24								120	110	110	A	A
25								120	110	110	110	110
26								120	115	A	A	B
27								A	A	A	A	A
28								A	A	A	A	A
Count								20	23	15	8	10
Median								120	110	110	110	105
Mean								120	110	110	110	105

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds

Characteristic h'E
Unit Km
Month February 1958

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

Sweep 1°0' Mt. to 25°0' Mc. in 27 Seconds.

Characteristic h'E
Unit Km
Month February 1958

TABLE 20—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								105	105	A	105	105
2								110H	110	C	C	C
3								A	A	A	A	105
4								115	105	105	A	105
5								110	105	105	105	A
6								A	110	A	A	105
7								A	A	A	A	105
8								110	105	A	B	A
9								A	110	A	A	A
10								A	110	A	A	110
11								110	105	A	A	C
12							130	125	B	C	C	A
13								110	A	C	A	A
14								120	115	C	A	A
15							140	115	110	A	C	A
16								115	110	110	A	A
17								110	110	105	A	110
18								115	110	110	105	110
19								120	115	110	110	110
20							150	120	115	A	A	A
21								115	110	A	110	110
22								115	110	110	A	A
23								110	C	C	C	C
24								110	110	A	A	110
25								120	110	110	B	A
26							130	115	A	A	A	B
27							120	A	A	A	A	A
28							135	A	A	A	A	A
Count							6	21	20	8	5	11
Median							130	115	110	110	105	110
Mean							135	115	110	110	105	110

Sweep 1°0 Mc. to 25°0 Mc. in 27 Seconds.

Characteristic : h'E
 Unit . Km
 Month . February 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	105	105	A								1
C	C	C	C	C								2
105	A	A	A	115								3
105	105	105	110	110								4
105	105	A	A									5
110	A	105	110	A	A							6
A	110	110H	105	110								7
A	105	105	B									8
B	110	120	120	115								9
110	A	105	A	A								10
A	B	105	B	B								11
C	A	A	A	110	A							12
A	A	A	A	115								13
A	A	A	A	A								14
\	A	A	A	110								15
110	110	105	110	110								16
110	110	105	110	A								17
110	110	105	105	C								18
110	110	110	110	A								19
110	110	110	110	A								20
110	A	110	110	115								21
110	A	110	115	120								22
C	C	C	110	115								23
A	A	110	110	110								24
A	A	110	110	110								25
A	A	A	A	110								26
A	A	A	110	A								27
A	A	110	115	A	A							28
12	10	18	17	14	—							Count
110	110	110	110	110	—							Median
110	110	110	110	110	—							Mean

Sweep 170 M. to 250 M. in 27 Seconds.

Characteristic h'Es
 Unit : Km
 Month February 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								105	100	100	100	100
2								G	100	100	C	C
3								110	100	C	100	100
4								100	105	100	100	100
5							95	G	100	100	100	100
6								110	105	100	100	100
7								105	100	100	100	100
8								100	100	100	100	100
9								G	105	100	100	100
10							115	100	100	100	100	100
11								G	100	G	100	100
12					100		125	G	100	C	C	C
13								110	100	100	100	100
14								G	G	G	100	100
15								G	100	100	100	C
16								G	100	100	100	100
17							140	110	100	100	100	100
18								110	100	105	100	100
19								120	100	100	100	100
20								100	100	100	100	100
21								G	100	100	100	100
22									100	100	100	100
23								110	C	C	C	C
24								G	100	100	100	100
25								100	100	100	100	100
26								G	100	100	100	100
27								100	100	100	100	100
28								100	100	100	100	100
Count	1	..	4	16	26	23	25	24
Median	105	100	100	100	100
Mean	105	100	100	100	100

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds

Characteristic · h'Es
 Unit Km
 Month : February 1958

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

Sweep 10 Mc. to 250 Mc. in 27 Seconds.

Characteristic · h'Es
Unit · Km
Month · February 1958

TABLE 21—*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								105	100	100	100	100
2								105	100	C	C	C
3								105	100	100	100	100
4								105	105	100	100	100
5								105	100	100	100	100
6								105	100	100	100	100
7								105	100	100	100	100
8								100	100	100	100	100
9								100	100	100	100	100
10		110						105	100	100	100	100
11								100	100	100	100	100
12				110			G	G	100	C	C	C
13								105	100	C	100	100
14								G	G	C	100	100
15							G	120	100	100	C	100
16								100	100	100	100	100
17							G	100	100	100	100	G
18								105	100	100	100	100
19				100				105	100	100	100	100
20							G	100	100	100	100	100
21								105	100	100	100	100
22								100	100	100	100	100
23		C						105	C	C	C	C
24								100	100	100	100	100
25								100	100	100	100	100
26							G	100	100	100	100	100
27							G	100	100	100	100	100
28							G	100	100	100	100	100
Count	.	1		2				26	26	23	24	14
Median		.					..	105	100	100	100	100
Mean		105	100	100	100	100

Sweep 1 0 Mc to 25 0 Mc in 27 Seconds.

Characteristic h'Es
 Unit · Km
 Month : February 1958

TABLE 21—*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	105								1
C	C	C	C	105								2
100	100	100	100	105								3
100	100	100	G	105								4
G	G	100	100									5
G	100	G	G	100	100				115			6
100	100	G	G	105					100			7
100	100	G	G	100								8
100	G	G	G	G			120	105				9
100	100	100	100	100	100							10
100	G	G	G	G								11
C	100	100	100	100	105					110		12
100	100	100	100	100	125							13
100	100	100	100	105	105							14
100	100	100	100	105	110				120			15
100	100	100	100	100	110							16
G	G	115	120	100				110				17
G	G	G	100	C	110							18
G	G	G	100	100								19
100	100	100	G	100								20
100	100	100	100	100								21
100	100	100	G	105								22
C	C	C	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	G	G	100	100							28
20	20	18	18	23	9	.	1	2	3	1	.	Count
100	100	100	100	100	105		.	.	.	.	..	Median
100	100	100	100	100	105	.	.	..	.	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic : (M3000)F2
 Unit : —
 Month : February 1958

TABLE 22
 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 95	2 95	2 90	2 85	2 90	3 10	2 90	2 45H	2 50	2 40	2.30	2 20
2	U2 70F	U2 75F	U2 75S	F	2 90	3 00	U3 00F	F	U2 55F	2 30	C	C
3	F	F	F	F	3 15	U3 20F	U2 80F	2 65	2 60	C	2 40	2.30
4	F	F	F	2.90F	3 05	3 20	F	U2 60S	2 50	2 50	2 30	2.25
5	F	F	F	2 70	U2 75F	3 05	3 15	2 70	2 30	2 30	2 30	2 20
6	2 90	3 05	3 05	2 95	2 65	2 75	2 75	2 65	2 40	2 25	2 20	2.15
7	U3 05S	3 10	U3 05S	3 10	3 15	3 10	2 55	2 65	2 50	2 35	2 30	2 20
8	F	U3 05F	3 15	3 00	2 75	3 15	2 85	2 65	2 30	2 40	2 25	2 30
9	C	2 95	3 15	U3 05S	3 00	3 10	2 75	2 75	2 50	2 40	2 20	2 20
10	U3 05F	3 10	F	2 80	2 85	F	U3 40F	2 70	2 40	2 35	2 40	2 20
11	U2 65F	2 70	2 75	2 80	2 70	2 80	3 10	3 15	2 65	2 30	1 95	1 15
12	2 60	2 25	2 05	F	F	2 45F	F	2 80	2 60	C	C	C
13	3 05	2 95	2 90	2 85	3 05	3 40	3 30	2 95	2 55	2 20	2 35	2.30
14	J2 95S	3 00	U2 95S	2 95	U2 85S	U3 00S	3 20	3 05	2 95	2 80	2 50	2 25
15	2 65	2 75	U2 80S	U2 80S	3 00F	U3 00F	U2 85F	F	2 70	2 45	2 25	C
16	U2 65F	U2.85F	U2 85F	3 00	U3 10F	3 25	3.05	FS	2 60	2 40	2 35	2 30
17	F	3 05	J3 10R	3 20	3 25	3 15	2 95	2 70	2 65	2 40	2 50	2 55
18	2 95	3 00	3 10	3 00	2 90	3 05	3.00	2 70	2 55	2.60	2 40	2 35
19	2 80	3 00	3 05	3 00	3 10	U3 10S	3 30	U2 65SII	2 65	2 55	2 40	2 35
20	3 20	3 15	U3 15S	3 30	U3 20S	3 30	2 65	U3 00S	2 70	J2 45R	2 40	2.45
21	3 10	3 25	3 10	U2 85S	U2 55S	2 60	U3 00S	3 00	2 55	2 35	2 35	2.40
22	U3 10S	U3 20S	U3 10S	3 10	2 90	2 95	3 20	3 05	2 80	2 35	2 35	2 30
23	3 20	3 10	U3 00S	2 90	3 20	3 30	U3 00S	2 70	C	C	C	C
24	2 95	3 05	3 10	3.20	3 20	3 30	3 00	U2 95S	2 65	2 35	2 40	2 40
25	3 00	3 10	U3 05S	3 10	3.15	3 30	2 80	2 90	2 65	2 40	2.30	2 30
26	F	F	3.00	3 05	3 10	F	2 95	U2 90S	2 75	2 30	2 20	2 15
27	F	F	F	2 95	F	3 05	U2 80S	2 85	2 65	2 25	2 25	2 20
28	F	F	F	2 90	U3 10S	3 10	U2 60S	U2 70F	2 45	2.35	2 30	U2.30R
Count	19	22	22	25	26	26	26	25	27	25	25	24
Median	2 95	3 00	3 05	2 95	3 00	3 10	3 00	2 70	2 60	2 35	2 30	2.30
Mean	2 90	2 95	2 95	2 95	3 00	3 05	2 95	2 80	2 60	2 40	2 30	2.25

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic · (M3000)F2
 Unit · —
 Month : February 1958

TABLE 22
 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 20	2 10	2 10	2 20	2 20	U2 05S	U2 00R	F	F	F	F	C	1
C	C	C	C	C	2 10	2 15R	U2 00F	F	U2 10F	F	F	2
2 20	2 15	2 15	2 10	2 05	1 90	2 10	2 00	2 15	U2 25F	F	F	3
2 20	2 30	2 30	2 20	2 10	U2 10R	R	F	F	F	F	U2 30F	4
2 20	2 25	2 20	2 10	C	W	2 10	2 10	2 30	2 40	2 35	U2 50R	5
2 0	2 30	2 35	2 30	2 25	2 10	2 00	2 00	U2 05R	2 45	2 80	2 95	6
2 15	2 15	2 20	2 30	2 25	2 15	2 05	R	2 20	U2 35F	U2 40F	F	7
2 15	2 05	2 10	2 15	2 25	2 25	2 10	2 00	2 15	2 15	U2 25R	2 50	8
2 15	2 25	2 25	2 30	2 35	2 25	2 15	U2 10F	F	F	F	U2 85F	9
2 10	2 00	2 05	2 05	2 10	2 15	1 95	U1 90W	F	F	F	U2 70F	10
W	1 90	1 80	U1 90W	2 00	C	1 90	2 05	2 55	2 65	2 75	C	11
C	C	1 95	2 00	2 05	2 00	2 05	2 25	2 20	2 45	2 60	2 80	12
2 15	2 10	2 10	2 05	2 00	2 10	2 15	2 10	2 25	2 50	2 65	2 80	13
2 15	2 05	2 00	2 05	2 10	2 10	2 10	2 00	2 05	2 20	2 50	2 50	14
2 15	2 10	2 05	2 05	2 05	2 00	2 05	2 00	1 95F	F	F	F	15
2 30	2 30	2 30	2 30	2 30	2 20	J2 00R	U1 90W	F	U2 30F	F	F	16
2 55	2 50	U2 55S	2 55	U2 50S	2 35H	2 15H	U2 00H	U2 10FH	U2 45F	2 75	2 90	17
2 30	2 40	2 40	2 35	C	U2 00RH	2 10	C	U2 15F	2 50	2 70	U2 70S	18
2 35	2 45	2 50	2 50	U2 40S	2 20H	R	U2 00RH	R	2 40H	U2 80R	3 05	19
2 50	2 50	2 50	2 40	2 50	2 45	U2 25R	2 10	U2 25F	R	F	2 90	20
2 30	2 35	2 40	2 35	2 30H	2 15H	U2 05HS	2 05	2 05W	2 40	U2 75S	2 95	21
2 30	2 30	2 25	2 20	2 20	U2 20R	2 00	2 00	2 20F	2 40	2 70	3 10	22
C	C	C	2 20	2 25	2 20	U2 15S	2 05	2 10	F	U2 80S	2 85	23
2 25	2 25	2 20	2 15	U2 20R	U2 30S	2 20	2 15	2 10	U2 60R	U2 75R	U2 80R	24
2 25	2 20	2 20	2 25	2 30H	2 20	U2 15S	1 85	F	F	F	F	25
2 10	2 20	2 20	2 20	2 15	2 15	2 10	1 90	F	F	F	U2 70F	26
2 20	2 15	2 20	2 15	2 25	U2 05S	U2 10S	1 95	F	U2 10F	U2 55F	F	27
2 20	2 15	2 25	2 30	2 35	2 25	2 10	1 90	F	J	F	F	28
25	25	26	27	25	27	26	24	17	18	16	18	Count
2 20	2 20	2 20	2 20	2 25	2 15	2 10	2 00	2 15	2 40	2 70	2 80	Median
2 20	2 20	2 20	2 20	2 20	2 15	2 10	2 00	2 15	2 35	2 65	2 75	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic . (M3000)F2
 Unit : —
 Month February 1958

TABLE 22—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	2 90 ^F	2 95	2 85	2 80	3 15	3 20	2 65	2 60	2 45	2 40	2 20	2 20
2	F	2 65 ^F	U2 60 ^F	2 90	2 90	3 00	F	U2 70 ^F	2 45	C	C	C
3	U3 00 ^F	3 10	3 15	F	U3 20 ^F	F	2 65	2 65	2 50	2 40	2 30	2 30
4	F	F	F	3 00 ^F	3 05	F	F	2 60	2 45	2 45	2 30	2 25
5	F	U2 80 ^F	U2 70 ^F	2 65 ^F	2 95	3 15	2 90	2 50	2 25	2 30	2 25	2 20
6	2 95	3 05	3 00	2 75	2 60	2 90	2 70	2 55	2 35	2 20	2 25	2 15
7	3 10	3 30	3 05	3 10	3 15	3 00	2 65	2 55	2 40	2 25	2 25	2 15
8	2 95 ^F	3 10	3 00	2 90	3 00	3 20	2 80	2 50	2 30	2 40	2 40	2 30
9	2 85	3 05	3 00	U3 00 ^S	3 05	3 30	2 85	2 65	2 35	2 35	2 20	2 20
10	3 00	F	2 80	2 80	2 95	F	2 90	2 55	2 30	2 30	2 30	2 15
11	2 65 ^F	2 80	2 80	2 75	2 70	2 90	3 10	3 10	2 45	2 15	W	W
12	2 50	2 10	2 10	F	2 40 ^F	2 30	2 60	2 70	2 40	C	C	C
13	3 00	2 95	2 95	2 90	3 20	3 40	3 00	2 75	2 30	C	2 30	2 20
14	3 05	3 00	3 00	2 80	U2 95 ^S	3 15	3 05	3 00	2 85	C	2 35	2 15
15	2 70	2 80	2 80	2 80	3 00 ^F	3 00	U2 95 ^F	2 85	2 60	2 35	C	2 20
16	2 85	U3 00 ^F	3 00	F	U3 15 ^F	U3 25 ^F	3 00	2 75	2 40	2 40	2 30	2 30
17	2 90	3 10	U3 15 ^S	3 20	J3 15 ^R	3 20	U2 85 ^S	2 70	2 45	2 45	2 50	2 55
18	2 95	3 00	U3 15 ^S	2 95	2 90	U3 25 ^S	2 85	2 55	2 65	2 55	2 40	2 30
19	2 95	3 00	3 00	3 05	3 05	3 30	2 90	2 65	2 60	2 45	2 40	2 30
20	3 20	U3 20 ^S	3 30	U3 30 ^S	U3 20 ^S	3 30	3 00	2 85	2 60	2 40	2 30	2 50
21	3 15	3 30	U3 00 ^S	U2 75 ^S	2 50	2 75	3 05	2 85	2 35	2 35	2 35	2 40
22	3 15	U3 10 ^S	U3 00 ^S	3 00	2 85	3 10	U3 10 ^S	2 95	2 35	2 25	2 40	2 30
23	3 15	U3 00 ^S	3 00	3 10	3 35	3 20	2 85	2 55	C	C	C	C
24	3 00	C	3 15	3 20	3 15	3 30	3 00	2 80	2 45	2 30	2 50	2 30
25	3 00	3 15	3 10	3 20	3 25	3 20	U3 00 ^S	2 80	2 45	2 30	2 30	2 25
26	F	U2 95 ^F	3 00	3 05	3 15	3 15	2 90	2 80	2 50	2 20	2 20	2 15
27	F	F	F	U3 00 ^F	F	J3 15 ^S	2 90	2 75	2 35	2 30	2 20	2 15
28	F	F	U3 00 ^S	F	U3 10 ^S	3 20	2 70	2 55	2 45	2 35	2 30	2 25
Count	22	23	26	24	27	25	26	28	27	23	24	25
Median	3 00	3 00	3 00	3 00	3 05	3 20	2 90	2 70	2 45	2 35	2 30	2 25
Mean	2 95	2 95	2 95	2 95	3 00	3 10	2 90	2 80	2 45	2 35	2 30	2 25

Sweep 1 0 Mc. to 25 0 Mc. in 27 Seconds.

Characteristic · (M3000)F2
 Unit : —
 Month : February 1958

TABLE 22—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 15 C	2 10 C	2 20 C	2 20 C	2 15	1 95H U2 15R	1 95 U2 05S	F U1 90F	F U2 15F	F F	F F	2 75 F	1
2 15	2 15	2 15	2 10	2 00	2 10	2 10	U1 95F	F	F	F	F	2
2 30	2 30	2 20	2 15	2 10	2 00	U2 00R	F	F	F	U2 30F	U2 35F	3
2 25	2 20	2 15	2 05	1 90	2 05	2 05	2 15	2 45	2 50	U2 55R	2 65	4
2 25	2 30	2 30	2 25	2 15	2 05	U1 95S	U1 95F	S	2 60	2 90	2 95	5
2 15	2 20	2 25	U2 30R	2 20	2 10	2 00	R	2 30	F	F	F	6
2 05	2 15	2 10	2 20	2 30	U2 20R	2 00	2 00	2 05	2 15	2 35	2 65	7
2 20	2 20	2 30	2 35	2 30	2 20	2 05	F	F	F	F	U2 90F	8
2 05	2 00	2 05	2 10	2 15	U2 05S	U1 90S	1 90F	U2 10F	U2 25F	F	2 60F	9
W C	1 85 1 95	W 2 00	1 90 2 05	2 00 2 05	1 90 2 05	1 85 2 05	2 35 2 15	2 70 2 30	U2 65S 2 55	2 70 2 70	2 80 2 95	10
2 10	2 10	2 10	2 00	2 00	2 15	2 10	2 10	2 30	2 60	2 75	2 85	11
2 00	2 00	2 00	2 05	2 10	2 10	2 05	2 00	2 10	U2 50S	2 40	2 50	12
2 10	2 05	2 05	2 05	2 05	2 00	2 05	2 00	F	F	F	F	13
2 30	2 30	2 30	2 30	2 25	2 10	J1 95R	U2 00F	F	F	F	U2 70F	14
2 50	2 55	U2 55S	U2 55S	2 45	2 25H	2 05H	U2 00FH	U2 25FH	2 65	2 80	3 00	15
2 35	2 40	2 45	2 30	C	U2 00RH	U2 15S	F	2 40	2 65	U2 65S	2 75	16
2 40	2 50	2 55	U2 45S	U2 30RH	J2 15RH	2 00H	U2 10FH	U2 20FH	U2 60RH	2 90	3 20	17
2 45	U2 45R	2 50	2 45	2 45	2 40	2 10	U2 20R	U2 30F	F	2 75	3 00	18
2 35	2 40	2 40	2 40	2 20H	2 10H	1 95H	2 05	2 15	U2 55RS	2 80	3 05	19
2 30	2 30	2 25	2 20	2 15	2 10	1 95	2 00	F	2 60	2 90	3 15	20
C	C	C	2 30	U2 25R	U2 25S	2 05	2 05	2 10F	U2 70S	2 75	2 90	21
2 20	2 20	2 15	2 15	U2 20S	U2 25S	2 15	U2 05R	2 20	2 55	U2 80R	2 90	22
2 25	2 20	2 25	2 25	2 25	2 15	U2 00S	F	F	F	U2 50F	F	23
2 20	2 15	2 20	2 25	2 20	2 10	U2 00S	U1 80F	F	F	F	F	24
2 15	2 15	2 20	J2 20S	2 15	U2 10S	U2 10S	U2 05F	F	2 20F	F	F	25
2 15	2 20	2 30	2 35	U2 35R	2 20	R	F	F	F	F	F	26
25	26	26	27	27	28	27	21	16	16	17	20	Count
2 20	2 20	2 20	2 20	2 20	2 10	2 05	2 00	2 20	2 60	2 75	2 90	Median
2 20	2 20	2 25	2 20	2 20	2 10	2 00	2 05	2 25	2 50	2 70	2 85	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds

Characteristic foF2
Unit - Mc
Month : March 1958

TABLE 23
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	U12 OF	F	C	C	C	C	5.3	9.7	12.2	U12.2R	12.8	12.7
2	10.6F	U10.4F	C	C	C	C	C	C	C	C	C	C
3	U10.7F	U11.2F	F	8.2F	F	4.1	5.0F	U9.3S	10.6	10.2	10.0	10.2
4	F	11.7	9.6F	8.6F	9.0F	U9.9F	C	12.6	12.5	12.4	C	C
5	11.4	U11.7F	11.5	9.9	9.2	7.6	U6.8S	10.8	12.8	13.8	12.8	12.7
6	13.4	13.2	10.8	8.8	6.7	5.5	6.7	10.2	12.4	13.3	14.3	13.5
7	13.5	12.7	11.0	10.1	U9.6S	9.4	8.4	11.1	13.2	12.4	11.8	11.7
8	13.6	12.9	9.5	9.2	9.5	8.0	6.1	10.9	13.6	14.7	14.3	13.5
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	12.1	U11.9S	12.2	11.2	11.2	U9.2S	6.7	11.0	13.2	C	11.8	11.8
12	U11.0C	10.8	10.6F	U10.8F	11.4	11.6	U11.5S	13.3	14.2	C	13.4	12.6
13	12.1	U11.7S	10.7	10.3	9.8	9.7F	U10.2S	12.7	13.8	J13.3R	12.4	J12.0R
14	11.2	10.2	U9.4S	8.8	7.5	6.4	U7.1S	11.4	13.6	14.7	14.7	14.4
15	13.8	13.8	11.6	8.9	U7.2S	6.1	6.9	10.6	12.8	12.8	11.8	11.6
16	10.8	10.6	U9.7S	9.5	9.0	7.7	7.3	11.0	13.3	14.8	14.6	12.8
17	F	U11.6SF	11.8	10.7	8.3	6.5	U7.3S	Fs	U12.8F	13.6	12.5	11.6
18	12.8	U12.1S	10.9	J11.0S	11.3	10.4	8.2	U11.6S	13.2	U13.0R	12.8	11.7
19	U10.9S	U10.6S	U10.7S	10.7	10.7	11.4	12.8	13.3	14.0	13.9	13.5	12.8
20	13.5	13.0	11.3	9.4	8.8	8.3	8.5	12.2	13.6	12.8	11.9	11.6
21	12.0	11.0	U9.1S	7.5	6.5	6.4	7.6	11.0	13.0	12.3	11.8	12.0
22	13.6	U13.3R	12.7	12.6	11.4	U9.6F	8.7	11.9	13.2H	14.8	U14.6R	13.0
23	F	F	F	F	U5.4F	U3.6F	U6.2S	10.6	13.0	13.0	11.7	11.6
24	13.0	12.7	10.1	8.8	8.6	8.3	7.9	11.4	13.8	13.4	12.0	12.0
25	13.0	12.6	12.3	12.2	12.0	10.0	8.4	12.0	13.7	14.0	U12.8R	11.7
26	13.9	12.8	F	11.9	11.5	11.1	11.4	12.8	13.9	13.2	12.0	11.8
27	C	C	U9.6S	C	C	C	C	C	C	C	C	15.4
28	F	F	U9.8F	U8.5F	6.6	5.4	7.6	11.0	13.2	14.2	13.0	12.0
29	F	11.3	F	F	8.2	F	F	U11.8FS	13.7	15.0	14.0	12.1
30	F	F	F	F	8.6	F	F	U11.4S	13.6	U14.0R	C	C
31	U11.8S	U11.8S	U12.0S	11.6	10.0	U9.4S	U10.3S	12.2	13.8	13.6	13.3	12.3
Count	22	24	22	23	25	24	24	26	27	25	25	26
Median	12.1	11.8	10.8	9.9	9.0	8.3	7.6	11.4	13.2	13.4	12.8	12.0
Mean	12.3	11.9	10.8	10.0	9.1	8.2	8.0	11.4	13.2	13.4	12.8	12.4

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic foF2
Unit . Mc
Month . March 1958

TABLE 23
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
12.4	12.6	12.7	13.2	12.9	12.8	U11.8s	F	F	F	F	U9.0F	1
C	C	C	C	13.1	12.7	U11.9s	8.6	F	F	F	9.2F	2
10.8	11.2	11.8	12.5	13.0	13.4	13.0	11.8	F	F	U10.4F	U11.4F	3
12.3	12.7	13.4	13.9	U13.9R	13.4	U12.6R	10.0	F	U8.9F	U8.8F	U9.9F	4
11.6	11.8	13.2	13.8	13.9	13.8	13.1	12.6	12.8	U13.3R	13.8	13.8	5
12.8	12.6	13.3	13.9	13.8	U13.4R	U12.8R	J11.4R	F	F	F	13.1	6
12.0	12.2	12.6	13.0	13.4	13.6	13.0	11.4	U12.0F	12.8	14.0F	13.6	7
13.7	13.3	13.1	13.1	13.4	13.1	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	11.7	11.9	12.3	12.4	12.5	12.3	10.7	10.1	11.4	U12.0S	U12.1F	10
C	U11.7C	12.3	C	12.8	C	U11.0S	9.3	C	C	U9.7F	9.8	11
12.2	12.2	13.0	13.6	13.0	12.7	J12.0S	11.0	11.1	11.6	12.6	13.3	12
11.9	11.9	11.8	11.8	U11.5s	U11.7s	11.4	9.9	10.6	12.2	13.4	12.6	13
14.2	13.7	13.7	14.0	14.0	13.8	13.0	11.4	U11.4F	U12.4F	U11.3FS	F	14
11.4	11.6	11.7	11.9	11.5	11.3	10.6	9.4	9.4	10.7	10.8	10.7	15
12.4	12.1	12.3	12.5	U12.1R	12.2	U11.6s	U10.1S	U9.2F	F	F	U11.0F	16
11.9	12.2	12.1	13.8	14.7	14.4	13.3	12.2H	U12.0HS	13.3	U13.8R	13.4	17
11.2	11.3	J11.0S	12.1	11.8	U11.5s	11.0	9.2	U8.7F	U9.5s	U9.3s	10.4	18
12.9	13.0	13.1	13.3	U13.2R	12.9	U12.0S	U10.0R	U10.1F	U11.6s	U12.6R	U12.9R	19
11.4	11.6	11.7	11.8	12.1	12.3	11.6	9.9	9.2	U9.6s	12.2	13.3	20
12.3	12.7	13.0	13.6	J13.0R	13.0	12.7	U10.8R	F	F	12.3	U12.8F	21
12.8	U13.2R	13.8	14.2	14.8	15.0	14.8	U12.0F	F	F	F	F	22
11.7	11.8	12.2	12.4	U13.0R	13.5	12.8	U11.5R	U11.0F	11.6	F	13.3	23
11.5	12.0	12.4	12.8	12.1	U11.7s	11.0	U9.6s	U9.6s	11.2	12.6	13.6	24
11.1	11.5	12.3	13.0	12.8	13.2	R	U10.5R	F	F	R	12.2	25
11.6	11.6	12.0	12.1	C	U11.7s	11.1	9.8	F	8.5	U9.5s	R	26
13.9	13.7	13.6	13.7	C	C	C	C	F	F	F	F	27
11.4	11.4	11.2	11.6	12.0	U11.9s	U11.6s	U9.7s	F	F	F	F	28
12.0	12.4	12.8	13.0	12.5	12.2	U11.6s	U9.0F	F	F	F	F	29
C	C	C	C	C	C	U12.4R	10.5H	9.0	U11.4s	11.6	U11.8s	30
12.6	12.8	13.4	13.8	13.8	13.2	R	U10.4W	F	U10.8F	F	F	31
26	28	28	27	27	27	26	27	15	17	18	22	Count
12.0	12.2	12.6	13.0	13.0	12.9	12.0	10.4	10.1	11.4	12.1	12.4	Median
12.2	12.2	12.6	13.0	13.0	12.8	12.2	10.5	10.4	11.2	11.7	12.0	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic foF2
Unit : Mc
Month . March 1958

TABLE 23—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	11 9F	C	C	C	C	4 3	7 7	11 1	12 8	12 8	12 6	12 5
2	10 0F	10 0F	C	C	C	C	C	C	11 0	C	C	C
3	U11 4F	U11 4F	F	U8 4F	5 3F	3 3	U7 4S	10 4	10 4	10 1	10 0	10 6
4	12 3	10 9	9 1F	F	F	C	U11 8S	12 9II	12 3	12 5	C	12 1
5	12 0	U11 7F	10 6	9 6	8 6	U7 2S	U9 5S	11 9	13 8	13 4	12 8	12 3
6	13 4	12 3	9 6	C	5 9	5 3	8 6	11 5	12 9	14 0	14 0	13 1
7	13 2	11 6	10 8	U9 5S	9 5	8 6	9 6	12 7II	12 7	12 0	11 8	11 8
8	13 8	11 2	9 3	9 3	9 1	5 7	8 8	12 4	14 3	14 6	13 7	13 6
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	12 4	J12 0S	11 6	11 0	10 6	6 8	8 8	J12 2S	J13 0R	12 4	11 8	U11 7C
12	10 8	10 8	C	11 0	U11 6C	11 5	12 5	13 8	14 5	C	13 0	12 0
13	J12 0R	11 2	10 6	J10 2S	9 8	19 3S	11 5	13 5	13 8	12 8	12 1	11 9
14	10 6	U9 6S	8 9	8 0	7 0	5 7	U9 4S	12 5	14 4	14 7	14 7	14 4
15	14 0	12 8	10 5	7 8	6 6	5 4	9 0	J11 8S	13 0	12 3	11 8	11 6
16	10 9	10 1	U9 6S	9 2	8 5	6 5	U9 3S	12 3	14 4	15 0	U13 8R	12 4
17	U11 4F	FS	11 6	9 6	U7 2S	5 8	FS	FS	13 6	12 9	11 9	11 7
18	12 6	11 3	11 0	J11 0S	11 2	8 5	U10 0S	12 5	13 5	13 1	12 3	11 3
19	10 6	10 7	10 7	10 8	10 6	12 3	13 0	13 6	U14 0R	13 8	13 2	12 7
20	13 7	12 4	10 2	9 0	8 6	U7 5S	10 5	13 7	13 4	12 1	11 8	11 5
21	11 5	10 1	8 4	6 6	6 5	6 6	U9 3S	12 3	12 9	J12 0R	11 8	12 3
22	13 7	13 0	12 8	12 0	F	F	10 6	12 6	14 0	14 8	13 6	12 7
23	F	U10 0F	U8 2F	F	F	3 0	9 0	12 0	13 4	11 8	11 5	11 6
24	13 0	11 0	U9 4S	8 6	8 5	U7 2S	9 8	13 0	14 0	12 5	12 0	11 8
25	12 9	U12 1R	12 6	12 0	U12 0S	8 0	10 5	13 0	U14 0R	C	12 0	11 3
26	13 5	12 4	12 0	U11 8S	11 4	10 4	12 2	13 4	14 0	12 5	11 6	11 7
27	C	C	C	C	C	C	C	C	C	C	15 7	14 6
28	F	F	F	7 9	5 8	5 3	9 6	U12 2S	13 8	14 0	12 4	11 7
29	U11 5F	10 5	F	U8 6F	7 6	F	U10 5FS	12 8	14 6	14 8	C	12 0
30	F	F	F	F	8 0F	F	F	12 5	13 8	13 7	C	C
31	U11 8S	U11 8S	11 6	11 1	9 8	U9 4S	11 2	13 3	J14 0R	13 6	C	12 2
Count	25	24	21	22	23	23	25	26	28	25	24	27
Median	12 0	11 2	10 6	9 6	8 6	6 8	9 6	12 5	13 8	12 9	12 2	12 0
Mean	12 2	11 3	10 4	9 7	8 7	7 1	10 0	12 5	13 4	13 1	12 6	12 2

Sweep 1 0 Mc. to 25 0 Mc in 27 Seconds.

Characteristic foF2
 Unit Mc
 Month March 1958

TABLE 23—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
12.3	12.7	13.0	13.2	13.0	UI2 8R	UI1 4R	F	F	UI0 4F	F	UI0.21	1
C	C	C	UI2 9R	13.0	12.4	UI1.1R	U8 4F	F	U8 5V	F	F	2
10.9	11.5	12.1	R	13.4	13.2	12.6	UI1 0F	F	F	UI0 4F	F	3
12.4	12.9	14.0	13.9	13.8	13.0	11.5	F	U9 0F	F	U9 0F	11.0	4
11.2	12.6	13.4	13.8	13.9	13.6	12.7	12.6	UI2 6R	13.8	14.0	13.7	5
12.8	13.0	13.8	13.9	13.6	UI3 2R	UI1 8R	UI0 9F	F	F	UI2 9F	13.4	6
11.8	12.4	12.8	13.1	13.4	13.4	12.2	11.4F	UI2 4I	UI3 2F	13.9	13.3	7
13.7	13.2	13.1	13.0	13.3	C	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
11.5	11.8	11.9	12.3	12.4	12.4	11.6	10.1	10.8	UI2 0S	12.0	12.4	10
C	UI1 8C	C	C	C	C	10.0	9.0	10.6	UI0.0C	UI0 0C	10.7	11
11.9	12.7	13.4	13.4	J13 OR	J12 8R	11.4	11.0	11.4	UI1.6S	13.1	12.5	12
11.9	12.0	11.8	11.8	UI1 6S	UI1 6S	10.8	9.8	11.3	UI2.6R	13.4	UI1 6S	13
14.1	13.7	13.8	14.1	13.8	13.7	12.3	10.8F	UI1 4F	S	F	J12 OR	14
11.6	11.6	11.7	11.9	11.5	10.8	10.1	9.0	10.4	10.8	10.8	10.7	15
12.2	12.3	12.4	12.3	12.4	UI1.9S	11.1	U9 0F	F	UI0 7F	UI1.5F	F	16
12.0	12.4	13.2	14.3	UI4 9S	13.8	12.7II	UI1 7II	UI1 8II	UI3 7R	14.0	13.2	17
11.1	11.6	12.0	11.9	11.6	11.4	UI0 0S	U8.8R	U9 3F	U9 6S	10.0	10.6	18
12.9	13.2	13.1	UI3 2R	13.1	12.5	J11 IS	UI0.2F	10.8	12.3	12.6	13.4	19
11.6	11.7	11.8	12.0	12.2	UI2.0S	10.9	9.3	9.2	11.3	13.1	12.6	20
12.5	13.0	13.4	UI3 IR	13.2	13.0	UI1 9S	U9 6S	F	F	F	UI3 OR	21
12.9	13.4	14.0	14.3	15.0	UI5 IS	13.8	F	F	F	F	UI3 4F	22
11.7	11.9	12.4	B	13.6	13.0	12.2II	F	UI1.2F	S	UI2 6F	13.2	23
11.7	12.2	12.7	12.4	11.9	UI1.6S	10.5	U9.4F	10.5	UI1 8S	13.6	13.0	24
11.3	11.8	12.7	C	12.8	UI3 OR	UI1.6R	8.9	F	12.8	F	13.1	25
11.5	11.8	12.0	12.2	C	11.4	10.5	8.5	U8.0F	8.6F	10.5	C	26
13.6	13.7	13.7	13.2	C	C	C	F	F	F	C	F	27
11.4	11.2	11.5	11.8	12.0	UI1 8S	11.1	U8 5F	F	F	F	F	28
12.0	12.6	12.9	12.8	12.2	UI1.8S	UI0 7W	F	F	F	F	F	29
C	C	C	C	C	12.6	11.4	UI0 OR	9.0	11.4	R	UI1.6S	30
12.6	13.2	13.8	R	13.4	UI3 OR	UI1 8S	U9 6F	UI0.2W	F	F	F	31
27	28	27	24	26	27	28	23	18	18	18	21	Count
11.9	12.4	12.9	13.0	13.0	12.8	11.4	9.6	10.7	11.5	12.0	12.6	Median
12.1	12.4	12.8	13.0	13.0	12.6	11.5	9.9	10.5	11.4	12.1	12.3	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic foF1
 Unit Mc
 Month March 1958

TABLE 24
 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												
3								C	L	B	B	L
4								L	L	C	C	L
5								L	L	L	L _H	C
6												L _H
7												L
8								L	L	L	L	L _H
9								L	L	L	L	L
10								C	C	C	C	C
11												
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L _H
15								L	L	L	L	L
16												
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												
22												
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26												
27								L	L	L	L	L _H
28								C	C	C	C	L
29								L	L	L	L	L
30								L	L	L	C	C
31								L	L	L	L	L
Count												
Median												
Mean												

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic of F1
Unit Mc
Month March 1958

TABLE 24
Ionospheric Data
75 0°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

2	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
C	C	C	C	L	L							2
L	L	L	L	L	L							3
L _{II}	L _{II}	L _{II}	L	L	L							4
L _{II}	L _{II}	L _{II}	L	L	L							5
L _{II}	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	C							9
C	L	L	L	L	L							10
L	L	L	L	L	L							11
L	L _{II}	L	L	L	L _{II}							12
L	L	L	L	L	L							13
L _{II}	L	L _{II}	L _{II}	L	L							14
L	L	L	L	L	L							15
L _{II}	L	L _{II}	L _{II}	L	L							16
L _{II}	L _{II}	L	L _{II}	L	L							17
L	L _{II}	L	L _{II}	L	L							18
L _{II}	L	L	L	L	L							19
B	B	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L _{II}	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 _{II}	L _{II}	L _{II}	L	L	L							27
L _{II}	L _{II}	L	L	L	L							28
L	L	L	L	L	L							29
C	C	C	C	C	C							30
L	L	L	L	L	L							31
	..		..		.							Count
		.	..									Median
.	.				.							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic foF1
Unit Mc
Month March 1958

TABLE 24—*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	B	L	L
2							C	C	L	C	C	C
3								L	L	L	L ^H	L
4								L	L	L ^H	C	L
5							L	L	L	L	L ^H	L ^H
6								L	L	L	L	L ^H
7							L	L	L	L	L	L ^H
8								L	L	L	L	L
9							C	C	C	C	C	C
10							C	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 ^H	L ^H
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L ^H
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							C	C	C	C	C	L ^H
28							L	L	L	L	L	L
29							L	L	L	L	L	L
30							L	L	L	L	C	C
31								L	L	L	C	L
Count												
Median												
Mean												

Swap 1 0 Mc. to 25 0 Mc in 27 seconds

Characteristic · foF1
 Unit Mc
 Month . March 1958

TABLE 24—*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
C	C	C	B	L								2
L	L	L	L	L								3
L _H	L _H	L	L	L								4
L _H	L _H	L _H	L	L								5
												6
L _H	L	L	L	L								7
L	L	L	L	L								8
L	L	L	C	C								9
L	L	L	L	L								10
												11
L	L	L	L	L _H								12
L	L	L	L	L								13
L	L	L _H	L	L								14
L	L	L	L	L								15
												16
L	L	L _H	L	L								17
L	L	L	L	L								18
L	L _H	L _H	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	B	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 _H	L _H	L	L	L								28
L _H	L	L	L	L								29
L	L	L	L	L								30
C	C	C	C	C								31
L	L	L	L	L								31
..		..										Count
..			.	.								Median
..												Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic foE
Unit Mc
Month March 1958

TABLE 25
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								2.7	A	B	B	B
2								G	G	G	G	G
3								A	A	A	A	A
4								2.7	A	A	A	A
5								2.7II	A	A	A	A
6								A	A	R	A	A
7								2.7II	A	A	A	A
8								2.8	A	A	A	A
9								G	G	G	G	G
10								G	G	G	G	G
11								2.8	A	A	A	A
12								2.9	A	A	A	A
13								2.7	A	A	A	A
14								2.8	U3 1A	A	A	A
15								2.8	A	A	A	A
16												
17								2.9II	U3 1A	A	A	A
18								U2 6R	A	A	A	A
19								U2 9A	A	A	A	A
20								A	A	A	A	A
21								A	A	A	A	A
22								U2 7A	A	A	A	A
23								2.7	B	A	A	A
24								A	A	A	A	A
25								U2 9R	A	B	A	A
26								2.8	A	C	A	A
27								A	A	A	A	A
28								G	G	A	A	A
29								A	A	A	A	A
30								3.0	A	A	A	A
31								3.1	A	A	A	A
								3.0	A	B	A	A
Count								20	2			
Median								2.8				
Mean								2.8				

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic · foE
 Unit : Mc
 Month March 1958

TABLE 25
 Ionospheric Data
 75 0°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A	A							1
C	C	C	C	A	A							2
A	A	A	A	B	B							3
A	A	4.0	A	A	A							4
A	4.0	4.0	3.9	3.3	R							5
A	B	4.1	3.9	3.6	A							6
A	A	A	A	B	R							7
A	A	A	A	R	C							8
C	A	A	A	C	R							9
C	A	A	A	R	R							10
A	A	A	A	A	F							11
A	A	4.0	A	A	A							12
A	A	A	A	A	A							13
A	A	A	A	A	A							14
A	A	A	A	A	2.8							15
A	A	A	A	A	A							16
A	A	A	A	A	U2 7A							17
A	A	A	A	B	A							18
A	A	A	A	A	A							19
B	A	A	A	A	A							20
B	B	B	A	B	A							21
A	A	A	A	A	A							22
A	A	U4.1A	A	3.4	B							23
A	A	A	B	B	A							24
A	B	A	A	B	A							25
A	A	A	A	A	A							26
U4 3A	A	B	A	A	C							27
A	A	A	A	C	B							28
A	A	A	A	A	A							29
C	C	C	C	C	C							30
B	B	A	A	A	A							31
I	I	5	2	3	2							Count
.	.	4.0	.	.	.							Median
..	.	4.0	.	.	.							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic foE
 Unit Mc
 Month March 1958

TABLE 25—*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							2.3	A	A	B	B	B
2							C	C	A	C	C	C
3								A	A	A	A	A
4								A	A	A	A	A
5							2.2H	3.0	A	A	A	A
6								A	A	A	A	A
7							2.2H	A	A	A	A	A
8								3.2	A	A	A	A
9								C	C	C	C	C
10							C	C	C	C	C	C
11								A	A	A	A	A
12							U2 3A	A	U3.7R	A	A	A
13							2.4H	U2 8A	A	A	A	A
14							2.3	3.1	A	A	A	A
15							2.3	A	A	A	A	A
16							2.5	3.1H	A	A	A	A
17								A	A	A	A	A
18							2.3	A	A	A	A	A
19								A	A	A	A	A
20							A	A	A	B	B	B
21							2.3H	A	A	A	A	A
22								3.0	A	A	A	A
23								U3.2A	A	A	A	A
24							U2 4R	A	B	A	A	A
25								3.2	A	A	A	A
26							2.4	A	A	A	A	A
27							C	C	C	C	C	C
28							2.6	A	A	B	A	A
29							2.4	A	A	A	C	A
30							2.5	U3.6A	A	A	C	C
31							2.6	A	A	A	C	B
Count							16	9	1		..	..
Median							2.4	3.1	.	.	..	..
Mean							2.4	3.1	.	.	..	..

Sweep 10 Mc. to 250 Mc. in 27 seconds.

Characteristic . foE
Unit . Mc
Month : March 1958

TABLE 25—contd.
Ionospheric Data
75 0° 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	B	A	A								1
C	C	C	B	A								2
A	A	4.0	B	A								3
4.2	A	A	A	A								4
4.2	4.0	3.9	R	A								5
A	4.1	4.1	3.9	A								6
A	A	A	R	B								7
A	A	A	A	A								8
C	C	C	C	C	C							9
B	A	A	R	R								10
A	A	A	A	A								11
A	4.2	U4.0A	A	A								12
A	A	A	A	A								13
A	A	A	A	3.0								14
A	A	A	A	A								15
A	A	A	A	A								16
A	A	A	B	R								17
A	A	U3.7R	A	A								18
B	A	A	A	A								19
B	B	B	A	A	A							20
A	A	A	B	A								21
A	A	A	U3.5A	B								22
A	A	A	B	B								23
A	A	A	A	R								24
A	A	A	B	B								25
A	C	A	B	A								26
A	A	A	R	C								27
A	A	A	A	A								28
A	B	A	A	A								29
C	C	C	C	C								30
B	A	A	B	A								31
2	3	5	2	1	.							Count
	.	4.0	.	.								Median
.		3.9	.									Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic · foEs
 Unit . Mc
 Month : March 1958

TABLE 26
 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	2.8	2.8	C	C	C	C	C	G	10.0	B	12.0	12.0
2			C	C	C	C	C	C	C	C	C	C
3								8.6	10.2	10.6	11.6	12.0
4								7.0	9.0	10.8	C	C
5								G	8.8	10.8	12.0	13.0
6								7.0	8.4	G	12.0	12.8
7								G	9.6	11.4	12.0	12.6
8								G	10.4	10.8	11.6	12.0
9	C	4.0	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11								G	10.8	11.0	11.8	11.8
12								3.1	8.6	10.8	12.4	12.0
13								G	8.4	10.5	12.0	12.2
14								G	9.0	10.6	11.8	11.6
15								6.4	9.0	10.8	11.6	12.0
16								G	U7.35	10.2	12.3	12.4
17								G	10.8	12.0	12.2	12.3
18								U6.75	U10.25	11.0	12.0	12.0
19								U9.05	10.2	11.0	12.4	12.2
20							U4.25	U7.05	10.6	11.3	12.0	12.0
21								U9.05	10.6	11.0	12.8	12.1
22								G	8.0	11.0	12.1	12.0
23								7.0	8.6	10.0	11.2	12.0
24								G	9.0	10.6	11.4	11.4
25								G	9.0	10.0	11.6	11.4
26								6.0	U9.20	11.2	11.4	12.0
27	C	C		C	C	C	C	C	C	C	C	11.8
28	10.0	7.0						6.6	8.4	11.0	12.0	12.0
29	3.8							G	11.0	11.0	12.2	12.0
30								3.8	10.0	11.4	C	C
31								7.3	9.6	10.0	12.0	11.4
Count	3	3		.			1	27	27	26	25	26
Median				.				6.8	9.2	10.8	12.0	12.0
Mean	.			.			.	4.5	9.4	10.8	12.0	12.0

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic foEs
Unit · Mc
Month March 1958

TABLE 26
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
12.0	11.6	11.4	11.0	8.4	7.0							1
C	C	C	C	8.0	8.0							2
12.4	11.8	12.0	11.0	B								3
11.8	11.4	G	10.4	8.0	8.0							4
12.0	G	G	G	G	7.0			3.0				5
12.0	9.8	G	G	G	7.0							6
12.0	11.6	10.6	8.0	G	8.0							7
12.2	12.0	11.8	9.4	8.0		C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	12.2	12.2	11.2	8.6								10
11.8	11.6	11.4	11.4	8.4	7.6							11
12.0	11.6	6.8	11.0	8.6	7.0							12
11.8	11.6	11.6	11.4	8.2	6.8							13
12.0	11.8	11.6	11.0	8.4	7.0					3.1		14
12.0	12.0	11.8	11.0	9.0	8.0							15
12.7	12.4	11.9	11.7	8.4	7.3							16
12.2	12.0	11.6	10.8	G	8.0					3.6		17
12.2	12.2	12.5	12.2	9.2	u8 45							18
11.7	11.9	11.1	11.0	8.8	8.8							19
11.2	12.1	11.6	12.0	10.1	u9 05							20
12.2	12.1	12.2	12.0	8.2	7.6							21
12.0	11.8	11.6	10.8	8.4	7.0							22
12.0	11.0	11.0	B	B	B							23
11.4	11.0	11.4	11.0	8.4	8.0							24
12.0	11.6	10.6	7.0	7.2	7.0						3.8	25
12.2	11.8	11.0	11.2	8.6	8.0					4.0		26
11.6	11.8	11.8	11.8	C	C	C	C					27
11.6	12.0	12.4	11.3	8.2	8.0							28
12.4	11.4	11.8	11.8	10.0	8.0							29
C	C	C	C	C	C							30
10.8	9.8	12.4	10.2	8.4	8.0							31
27	28	28	27	26	24		..	1	.	3	1	Count
12.0	11.8	11.6	11.0	8.4	8.0	.		.		.	..	Median
11.9	11.6	11.4	10.9	8.5	7.7			..		.		Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs
 Unit · Mc
 Month · March 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	2.6	C	C	C	C	C	G	9.0	10.6	B	12.0	12.0
2			C	C	C	C	C	C	8.8	C	C	C
3								U10.4s	9.7	11.6	12.0	12.2
4						C		8.6	8.0	12.0	C	11.0
5							G	6.6	10.6	12.0	12.0	11.8
6				C			6.0	10.4	10.6	12.2	12.2	12.6
7							G	8.6	11.0	12.0	12.0	12.2
8	3.6							C	11.0	12.0	12.2	12.0
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11								8.5	10.6	11.8	11.6	11.8
12							3.2	8.8	G	11.6	12.0	12.0
13							G	6.8	9.3	11.6	12.2	12.4
14							G	G	9.8	12.0	12.2	11.6
15							G	9.0	11.0	12.2	12.1	11.4
16							G	G	10.0	12.1	12.2	12.5
17							G	8.0	10.9	12.2	12.0	12.6
18							G	U9.0s	10.6	11.4	12.5	11.8
19								U9.6s	10.1	11.7	12.0	12.1
20							U6.4s	U10.0s	11.0	12.2	12.8	12.0
21							G	U10.2s	11.0	12.3	12.4	12.4
22								G	9.6	12.4	12.4	12.0
23								8.2	9.8	11.6	11.1	12.0
24							G	7.8	9.0	11.4	11.6	11.6
25							6.2	6.8	9.2	12.0	11.6	11.6
26			C	C	C	C	G	8.2	10.0	12.0	12.0	12.0
27	C						C	C	C	C	12.2	11.8
28	9.8	6.2					G	9.2	10.6	11.0	12.0	11.6
29							U5.7s	8.8	10.7	12.0	C	12.0
30	2.4						3.8	8.6	10.4	11.6	C	C
31							G	8.8	10.0	11.6	C	11.3
Count	4	1					19	27	28	26	24	27
Median							..	8.6	10.2	12.0	12.0	12.0
Mean							5.2	8.7	10.1	11.9	12.0	11.9

Sweep 10 Mc. to 250 Mc in 27 seconds.

Characteristic · foEs
 Unit : Mc
 Month : March 1958

TABLE 26—*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
11.6	11.6	11.0	8.4	8.0								1
C	C	C	G	8.0								2
12.4	12.0	11.0	B	7.5					3.2			3
G	11.4	10.8	8.4	8.0								4
G	G	G	G	8.1								5
12.2	11.0	G	G	8.4								6
12.2	12.0	8.6	6.6	G							2.6	7
12.0	12.0	12.0	8.0	7.8	C	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
12.0	12.0	11.8	9.0	8.4								10
11.8	11.5	11.4	9.2	8.4	6.8							11
11.6	8.2	8.2	8.8	8.0	6.5							12
12.2	11.2	11.4	9.2	6.9	5.8							13
12.4	11.8	11.2	8.4	8.2	u6.08				3.5	3.4	6.2	14
11.6	12.0	11.6	8.7	8.4	6.0							15
12.4	12.1	11.8	9.0	8.1						3.1		16
12.1	12.1	7.0	7.2	8.2								17
12.0	11.9	12.1	9.9	8.8	u6.5s							18
12.0	11.2	11.2	9.0	8.6								19
12.0	12.3	12.0	9.6	u9.6s	6.5							20
12.3	12.1	12.4	B	8.0								21
12.0	11.0	11.0	9.8	G								22
12.0	11.4	10.6	B	B								23
11.4	11.6	11.4	8.6	8.0								24
11.4	11.0	10.2	7.6	C							2.8	25
11.8	C	11.6	8.6	8.0						C		26
12.0	11.6	12.0	8.0	C		C					4.0	27
12.0	11.6	12.0	9.8	8.6	6.8						2.8	28
11.6	11.8	11.8	11.2	8.5	5.8							29
C	C	C	C	C								30
11.2	10.8	10.0	8.5	8.6								31
28	27	28	26	26	9		.	.	2	2	5	Count
12.0	11.6	11.3	8.6	8.1	6.5	..	.	..	.		2.8	Median
11.9	11.5	11.0	8.8	8.2	6.3		.	.		..	3.7	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic · fbEs
 Unit: Mc
 Month · March 1958

TABLE 27
 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	2.4	2.2	C	C	C	C			3.4			
2			C	C	C	C			C	C		C
3								2.7	3.4	4.0	4.2	4.5
4								2.8	3.4	4.0	C	C
5									3.4	4.0	4.1	4.3
6												
7								2.8	3.5		4.3	4.4
8									3.4	4.1	4.2	4.4
9	C	2.2	C	C	C	C			3.6	4.0	4.3	4.5
10	C	C	C	C	C	C	C	C	C	C	C	C
11									3.6	4.2	4.4	4.6
12									3.6	4.0	4.2	4.6
13									3.5	4.0	4.2	4.4
14										4.0	4.4	4.4
15								2.9	3.5	4.0	4.3	4.4
16									3.5	3.9	4.3	4.4
17									3.5	4.0	4.3	4.4
18										3.4	3.9	4.3
19								2.9	3.5	4.0	4.2	4.5
20								2.9	3.6	4.0	4.3	
21								3.0	3.5	4.1	4.3	4.5
22										4.0	4.3	4.6
23								3.0	3.6	4.1	4.4	4.6
24									4.0		4.6	
25									3.7	4.2	4.2	
26								3.0	3.6	4.1	4.5	4.6
27	C	C		C	C	C	C	C	C	C	C	4.6
28	3.0	2.7						3.0	3.7	4.2	4.4	4.6
29	2.2								3.7	4.1	4.4	4.6
30								3.6	3.8	4.2	C	C
31									3.8		4.6	4.6
Count	3	3					.	12	25	23	24	22
Median								2.9	3.5	4.0	4.3	4.5
Mean								3.0	3.6	4.1	4.3	4.5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic .fbEs
Unit Mc
Month · March 1958

TABLE 27
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
4.6	4.5	4.2	4.0	3.6	3.0							1
C	C	C	C	3.6	2.9							2
4.5	4.4	4.1	3.9									3
4.4	4.3		3.9	3.6	2.9							4
4.4					3.0			2.2				5
4.5					2.9							6
4.5	4.3	4.1	3.9		3.0							7
5.0	4.5	4.4	4.0	3.6		C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	4.6	4.4	4.0	3.7								10
4.6	4.5	4.4	4.0	3.7	3.0							11
4.5	4.3		4.0	3.6	3.0							12
4.6	4.5	4.2	3.8	3.7	3.0							13
4.5	4.4	4.2	3.9	3.6	3.0					2.4		14
4.6	4.4	4.1	4.0	3.6	2.9							15
4.5	4.4	4.2	3.9	3.4	2.8					2.8		16
4.4	4.3	4.1	3.9		3.0							17
4.5	4.3	4.1	3.8	3.5	2.9							18
	4.4	4.2	3.9	3.5	3.0							19
			4.1		3.0							20
4.5	4.3	4.3	3.9	3.6	3.0							21
4.6	4.6	4.4	4.0									22
4.6	4.6	4.5	4.0									23
4.6		4.4	4.0		3.0							24
4.6	4.5	4.3	4.0								2.3	25
4.6	4.6		4.1	C	3.0							26
4.4	4.4	4.3	4.0	C	C	C	C					27
4.8	4.4	4.4	4.0									28
4.8		4.6	4.0	3.8	3.0							29
C	C	C	C	C	C							30
		4.6	4.0	3.8	3.0							31
24	22	22	25	16	21		.	1	..	2	1	Count
4.6	4.4	4.3	4.0	3.6	3.0	.	.	.		.		Median
4.6	4.4	4.3	4.0	3.6	3.0	..	..	.		.	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic fbEs
Unit . Mc
Month March 1958

TABLE 27—*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	2.2	C	C	C	C	C	C	3.1	3.7	C	C	C
2			C	C	C	C	C	C	3.8	C	C	C
3								3.1	3.7	4.1	4.5	4.5
4								3.0	3.7	4.0	C	4.4
5								3.1	3.6	4.0	4.3	4.4
6							2.4	3.2	3.7	4.0	4.3	4.5
7								3.2	3.7	4.1	4.3	4.5
8	2.2							C	4.0	4.1	4.4	4.7
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11								3.2	4.0	4.2	4.4	4.5
12							2.6	3.4	4.0	4.3	4.4	4.5
13								3.2	3.8	4.0	4.3	4.5
14									3.8	4.0	4.4	4.6
15								3.2	3.7	4.2	4.4	4.5
16									3.7	4.0	4.5	4.5
17								3.2	3.7	4.1	4.4	4.5
18								3.1	3.7	4.0	4.3	4.4
19								3.1	3.6	4.0	4.3	4.5
20							2.7	3.2	3.8			
21								3.3	4.1	4.2	4.4	4.6
22									4.0	4.2	4.6	4.6
23									3.8	4.2	4.6	4.6
24								3.2	3.8	4.2	4.6	4.8
25								3.7		4.5	4.6	4.8
26									4.0	4.2	4.8	C
27	C	C	C	C	C	C	C	3.4	3.9	4.4	4.6	4.7
28	3.0	2.8						C	C	C	4.4	4.6
29								3.4	4.0	4.2	4.6	4.8
30	1.9						3.0	3.4	4.0	4.2	C	4.6
31								3.6	4.1	4.3	C	C
Count	4	1					4	22	26	24	22	23
Median							.	3.2	3.8	4.2	4.4	4.5
Mean							.	3.3	3.8	4.2	4.4	4.6

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic fEs
Unit Mc
Month March 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
4.6	4.4	C	3.8	3.2								1
C	C	C		3.4								2
4.5	4.2	4.0	3.8	3.2					2.4			3
	4.2	4.0		3.2								4
				3.2								5
												6
4.3	4.4			3.3								7
4.4	4.4	4.1			C	C	C	C	C	C	2.4	8
4.8	4.5	4.0	3.9	3.3	C	C	C	C	C	C	C	9
C	C	C	C	C								10
	4.5	4.2	4.0	3.3								11
4.6	4.4	4.2	4.0	3.4								12
4.6	4.4	4.3	4.0	3.3								13
4.5	4.2	4.0	4.0	3.2								14
4.5	4.4	4.1	4.0	3.2					2.3	2.3	2.2	15
4.6	4.3	4.1	3.8	3.2	2.5							16
										2.9		17
4.5	4.2	4.0	3.7	3.0								18
4.4	4.2	4.0	3.8	3.2								19
4.4	4.2	4.9	3.8	3.2								20
	4.2	4.0	3.7	3.2	2.6							21
		4.6	4.0	3.4								22
				3.2								23
4.4	4.2	4.1	3.8									24
4.8	4.4	4.2										25
4.6	4.5	4.2	4.0	3.4								26
4.6	4.6	4.2		C								27
4.8	4.6	4.1								C	2.5	28
C	4.7	4.0	4.1	3.4	C	C					2.2	29
4.5	4.4	4.2		C								30
4.7	4.5	4.4	4.0	3.3								31
4.8	4.5	4.4	4.0	3.4								
C	C	C	C	C								
	4.4	4.2		3.4								
												Count
21	24	25	18	23	2				2	2	4	Median
4.6	4.4	4.1	4.0	3.3								Mean
4.6	4.4	4.1	3.9	3.3								

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic fmin
Unit . Mc
Month March 1958

TABLE 28
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 9	C	C	C	C	1 7	2 1	2 2	7 0	5 3	4.6
2	1 8	2 0	C	C	C	C	C	C	C	C	C	C
3	1 6	1 7	1 7	1 6	1 6	1 6	2 4	2 0	2 9	2 8	3 0	3.2
4	2 0	2 1	2 4	1 7	2 2	2 1	C	2 2	2 1	3 0	C	C
5	1 8	1 8	1 6	1 5	1 6	1 6	1 7	1 8	2 1	2 6	2 8	3.0
6	2 2	1 7	2 0	1 9	2 0	1 8	1 7	2 2	2 6	2 9	3 0	3.1
7	2 0	2 2	1 8	1 9	1 7	2 2	1 8	1 8	2 2	2 7	2 7	3.8
8	1 9	2 0	1 9	2 5	1 7	2 2	1 6	2 2	2 5	3 0	3 2	3.8
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	1 9	1 6	1 7	1 8	1 8	2 2	1 8	2 2	2 8	3 2	3 4	3.1
12	2 3	2 2	2 3	2 2	1 8	2 4	1 8	2 2	2 1	2 8	3 0	3.2
13	2 2	2 0	1 6	1 8	1 9	1 8	1 8	1 6	2 1	2 8	2 3	3.1
14	2 2	1 8	1 8	1 7	1 7	1 8	1 9	2 3	2 6	3 0	3 2	3.1
15	2 2	1 8	1 7	2 0	2 0	1 7	2 1	2 0	2 1	2 8	2 9	3.1
16	2 1	2 1	2 1	2 4	2 1	2 3	1 9	2 0	2 1	2 9	3 1	3.1
17	2 0	2 2	2 0	1 9	2 0	2 2	1 9	2 2	2 1	2 9	3 1	3.1
18	1 8	2 2	2 0	1 6	2 1	1 8	1 9	2 2	2 1	2 6	2 9	3.0
19	2 4	2 0	1 9	2 1	1 5	1 9	2 1	2 2	2 7	3 0	3 0	3.1
20	2 5	2 3	2 2	1 8	2 0	2 3	1 9	2 2	2 1	3 0	3 6	3.1
21	1 9	1 7	1 9	1 9	1 8	1 7	1 9	2 1	2 5	3 1	3 0	3.2
22	2 1	2 2	2 0	2 0	1 9	2 2	2 0	2 5	3 9	3 0	3 0	3.4
23	2 6	2 0	1 8	2 0	2 2	2 1	2 0	2 0	2 5	2 9	3 0	3.4
24	2 0	1 8	1 9	2 1	1 9	1 9	2 3	2 3	3 4	5 2	3 8	3.4
25	2 2	2 2	2 2	2 2	2 4	2 3	2 0	2 5	2 8	C	3 4	3.4
26	1 8	1 8	2 2	2 2	1 8	1 7	2 0	2 0	2 1	3 2	3 4	3.4
27	C	C	2 0	C	C	C	C	C	C	C	C	3.6
28	2 0	1 9	3 0	2 3	2 4	1 8	2 3	2 0	2 5	3 4	3 4	3.3
29	1 8	2 0	2 0	1 8	1 9	2 0	2 1	2 4	2 5	3 0	3 1	3.3
30	2 0	1 9	2 1	2 0	2 0	1 9	2 1	2 3	3 0	3 1	C	3.3
31	2 6	2 6	2 2	1 9	2 1	2 1	2 6	2 6	2 5	3 5	3 6	3.4
Count	28	28	27	26	26	26	26	27	7	26	25	26
Median	2 0	2 0	2 0	1 9	1 9	2 0	1 9	2 2	2 5	3 0	3 1	3.1
Mean	2 1	2 0	2 0	2 0	1 9	2 0	2 0	2 2	2 6	3 2	3 2	3.3

Sweep 1 0 Mc to 25 0 Mc. in 27 seconds.

Characteristic fmin
Unit Mc
Month March 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
3.1	3.3	3.0	2.8	2.6	2.2	1.8	1.6	2.2	2.0	1.8	2.1	1
C	C	C	C	3.0	2.2	2.1	2.1	2.1	2.2	2.3	2.0	2
3.2	3.0	2.8	2.5	5.4	3.2	1.9	2.0	2.1	2.2	2.1	2.0	3
3.2	2.8	3.0	2.6	2.7	2.4	2.2	1.9	2.2	2.2	2.2	2.2	4
2.8	3.5	3.2	3.0	2.8	2.4	2.1	2.2	2.2	2.4	2.0	2.3	5
3.2	5.0	3.1	3.0	2.6	2.2	2.0	2.2	2.0	2.0	2.1	2.0	6
3.0	3.0	3.0	2.6	4.1	3.3	1.8	1.9	2.1	2.2	2.2	2.2	7
4.0	3.4	3.0	2.8	2.8	2.4	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	3.7	3.2	3.0	2.7	2.1	2.0	1.7	2.4	2.2	2.2	2.2	10
3.4	3.6	3.0	3.0	2.8	2.6	1.9	2.2	2.1	1.9	2.0	2.3	11
3.2	3.1	3.2	2.9	2.6	2.2	2.0	1.8	2.0	2.4	2.3	2.2	12
3.0	3.0	3.0	2.5	2.8	2.2	1.8	2.0	2.2	1.8	2.0	1.9	13
3.2	3.0	3.1	2.8	2.6	2.4	1.9	1.6	2.0	2.0	1.5	2.4	14
3.2	3.1	3.0	2.8	2.6	2.3	1.8	2.2	2.4	2.1	1.9	1.8	15
3.2	3.1	2.8	2.5	2.6	2.2	2.0	2.0	2.2	2.3	1.8	2.3	16
3.3	3.0	2.9	2.6	3.5	2.3	1.9	2.3	2.2	1.9	1.7	2.0	17
2.9	3.1	2.9	2.6	2.5	2.2	2.0	1.7	2.0	2.1	1.9	2.3	18
4.7	3.7	3.0	2.8	3.1	2.6	1.9	1.7	2.0	2.1	2.2	2.3	19
5.4	5.3	4.7	3.2	4.0	2.4	2.0	1.4	1.6	2.2	1.9	1.9	20
3.3	3.1	3.3	2.8	2.8	2.3	1.9	1.6	1.9	1.9	2.0	2.2	21
3.8	3.4	3.0	3.0	3.6	3.1	2.2	2.4	2.2	2.2	2.2	2.0	22
3.5	3.6	3.7	3.0	3.4	4.5	2.2	2.0	2.2	2.1	2.0	2.0	23
3.7	5.0	3.2	3.2	3.8	2.4	2.1	1.8	2.2	2.2	2.2	2.0	24
3.6	3.4	3.0	2.6	3.8c	3.0	2.0	2.0	2.2	2.3	2.2	1.8	25
3.4	3.8	4.7	3.0	2.8	2.6	1.9	1.8	2.0	2.2	1.8	2.1	26
3.8	3.3	3.3	2.8	C	C	C	C	2.0	2.4	2.4	2.2	27
4.0	3.8	3.4	3.2	4.0	3.0	2.0	2.6	2.3	2.2	2.6	2.4	28
3.7	5.0	3.6	3.0	3.0	2.2	2.1	1.7	1.8	2.0	2.0	2.0	29
C	C	C	C	C	C	2.0	2.0	1.8	1.9	2.2	2.2	30
5.2	5.0	3.6	3.0	3.0	2.4	2.1	1.4	1.8	2.4	1.8	2.2	31
27	28	28	28	28	28	28	28	29	29	29	29	Count
3.4	3.4	3.0	2.8	2.8	2.4	2.0	2.0	2.1	2.2	2.0	2.2	Median
3.6	3.6	3.2	3.0	3.3	2.6	2.0	1.9	2.1	2.1	2.0	2.1	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic, fmin
Unit : Mc
Month : March 1958

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

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds

Characteristic fmin
 Unit Mc
 Month March 1958

TABLE 28—*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
3.5	3.0	4.8	2.9	2.4	2.4	1.8	2.1	2.0	1.9	2.0	2.0	1
C	C	C	3.8	2.6	2.4	1.6	2.1	2.2	2.2	2.2	1.6	2
2.9	2.8	2.7	2.8	3.8	2.6	1.7	2.2	1.8	2.0	1.8	2.0	3
3.2	3.0	3.0	2.8	2.4	2.5	1.9	2.0	2.2	2.0	2.2	1.8	4
3.2	3.1	3.0	3.0	2.7	2.6	1.8	2.5	2.2	2.3	2.4	2.2	5
3.4	3.6	3.2	3.1	2.5	2.4	1.6	2.3	2.2	2.2	2.3	1.9	6
3.0	3.0	2.8	3.2	3.4	2.6	1.6	2.0	1.9	2.1	2.2	2.2	7
3.8	3.1	2.8	2.9	2.4	C	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
5.0	3.5	3.0	3.0	2.6	2.5	1.6	2.2	2.2	2.4	2.5	2.0	10
3.4	3.2	3.2	3.0	2.6	2.6	1.6	2.2	2.0	1.9	2.1	2.6	11
3.2	3.1	3.0	2.8	2.5	1.5	1.4	2.5	1.7	2.0	2.4	2.3	12
3.0	2.9	2.5	3.0	2.4	2.6	1.5	1.8	2.2	2.3	2.4	1.9	13
3.1	3.2	3.0	3.0	3.1	2.5	1.6	1.8	2.0	1.5	1.6	2.1	14
3.3	3.0	2.7	2.8	2.4	1.9	1.5	1.8	2.3	2.3	1.9	2.0	15
3.1	3.0	2.6	2.9	2.3	2.4	1.5	2.0	2.0	2.2	2.4	2.2	16
3.1	3.0	2.6	1.0	2.6	2.5	1.6	2.0	1.0	1.8	1.8	1.9	17
3.0	3.0	2.7	2.7	2.4	2.4	1.4	1.6	2.2	2.0	2.4	2.4	18
4.5	3.0	3.0	3.0	2.7	2.5	1.7	1.8	2.1	2.2	2.3	2.1	19
5.7	5.2	4.4	3.4	3.0	2.2	1.1	1.5	2.1	1.9	2.0	2.0	20
3.2	3.1	3.0	5.5	2.6	2.4	1.5	2.1	1.9	1.8	1.9	2.0	21
3.4	3.2	3.1	2.6	4.0	2.5	1.7	2.2	2.4	2.0	2.2	2.2	22
3.6	3.4	3.0	B	6.3	3.2	1.6	2.2	2.0	2.0	2.2	2.0	23
3.6	3.8	3.2	3.0	2.8	2.4	1.5	1.8	1.8	2.2	2.2	2.1	24
3.5	3.2	3.0	3.9	C	2.8	1.8	2.4	2.2	2.2	2.1	2.0	25
3.4	C	3.2	3.1	2.8	2.6	1.5	2.0	2.0	2.0	2.0	2.0	26
3.6	3.4	3.1	3.2	C	C	C	2.4	2.2	2.3	C	2.1	27
3.8	3.5	3.6	3.2	2.6	2.8	2.0	2.0	2.0	2.2	2.4	1.9	28
3.4	4.6	3.2	3.2	2.6	2.6	1.4	1.7	2.1	2.0	2.2	1.7	29
C	C	C	C	C	2.8	1.8	1.7	1.8	2.0	2.0	2.2	30
5.1	3.6	3.0	4.0	2.8	2.6	1.6	1.6	2.0	2.0	2.2	2.2	31
28	27	28	28	27	28	28	29	29	29	28	29	Count
3.4	3.2	3.0	3.0	2.6	2.5	1.6	2.0	2.0	2.0	2.2	2.0	Median
3.6	3.3	3.1	3.5	2.9	2.5	1.6	2.0	2.1	2.1	2.2	2.1	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'F2
 Unit Km
 Month March 1958

TABLE 29
 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
2								C	G	G	G	C
3								L	L	L	L	L
4									L	L	L	L
5								L	L	L	L	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	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
Count												
Median												
Mean												

Sweep 10 Mc to 250 Mc in 27 seconds

Characteristic h'F2
 Unit Km
 Month March 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	L							1
G	G	G	C	L	L							2
L	L	L	L _h	L	L _h							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
G	G	G	L	L	G							9
C	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
L	L	L	L	L	L							31
..												Count
..												Median
..												Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'F2
 Unit Km
 Month March 1958

TABLE 29—*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							C	G	L	C	C	C
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
7							L	L	L	L	L	L
8								L	L	L	L	L
9							C	C	C	C	C	C
10							C	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							G	G	G	G	G	G
28							L	L	L	L	L	L
29								L	L	L	L	L
30							L	L	L	L	L	L
31							L	L	L	L	L	L
Count												
Median												
Mean												

Sweep 1.0 Mc to 25.0 Mc, in 27 seconds.

Characteristic h'F2
Unit Km
Month : March 1958

TABLE 29—*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
C	G	C	B	L ^H								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
C	C	C	C	C								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
C	C	C	C	C								29
L	L	L	L	L								30
L	L	L	L	L								31
.	..											Count
..	.	.	.	..								Median
..	..	.		.								Mean

Sweep 1 0 Mc. to 25 0 Mc in 27 seconds.

Characteristic : h'F
 Unit · Km
 Month March 1958

TABLE 30
 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	265	250	C	C	C	C	260	250	240	B	B	230
2	240	235	C	C	C	C	C	C	C	C	C	C
3	245	235	220	225F	220	225	280F	250	240	225	210H	220
4	240	230	240	260	295	295	C	260H	240	220	C	C
5	235	235	245	245	235	225	245	250	235	225	215	210H
6	265	235	230	220	235	260	305	260	240	220	215	210
7	245	235	235	235	250	240	245	250	235	225	215	210H
8	240	235	235	260	210	210	240	240	235	220	210	220
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	260	260	240	240	235	220	250	250	240	230	225	210
12	240	265	300	285	260	230	240	260	240	240	235	220
13	235	245	270	280	290	265	250	250	240	230	215	210H
14	245	260	255	240	245	230	265	260	240	240	220	210H
15	245	240	225	220	240	240	280	255	240	230	220	205H
16	260	255	250	240	235	220	245	250	240	225	220	220
17	270	250	240	220	230	250	275	255	240	230	220	210
18	260	260	290	320	270	220	240	250	240	230	220	220
19	260	250	280	320	330	265	250	250	240	225	225	220
20	270	270	235	255	265	260	285	260	240	230	220	230
21	240	240	225	230	280	350	300	260	240	225	210	220
22	285	295	270	240	220	220	240	250	250	240	230	235
23	245	240	240	220	240	260	280	250	240	230	220	220
24	260	240	235	255	260	225	255	255	245	B	220	220H
25	280	290	265	240	240	220	250	255	240	235	230	240
26	290	310	300	280	245	240	260	250	240	235	230	225
27	C	C	270	C	C	C	C	C	C	C	C	220
28	260	265	260	240	240	240	275	250	240	230	220	220
29	280	260	260	240	220	235	250	240	240	230	220	230
30	280	260	250	240	220	220	260	250	240	230	C	C
31	305	280	265	250	240	275	270	255	240	240	230	220
Count	28	28	27	26	26	26	26	27	27	25	24	26
Median	260	250	250	240	240	230	260	250	240	230	220	220
Mean	260	255	255	250	250	240	260	250	240	230	220	220

Sweep 10 Mc to 250 Mc in 27 seconds.

Characteristic · h'F
Unit · Km
Month March 1958

TABLE 30
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	215	225	240	250	300H	440F	400F	385F	260	235	1
C	C	C	C	240	255H	300	465	U460F	U380F	U345F	260	2
220	220	205	230	B	265	305H	425H	450	400	300	260	3
210H	215H	220	235	245	260	300	460	400	325	300	235	4
205H	210H	220H	235	245	265H	310H	380H	335H	275	265	270	5
205H	B	220	235	240	260	300	440	400	350	280	260	6
205	210	220	230	255	260H	300	435H	385H	295	240	250	7
220	220	220	225	240	255	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	220	220	225	240	255	300	430	420	340	280	250	10
215H	205H	205H	220	240	260	305	425	395	325	285	250	11
220	205H	220	235	245H	260	300	375	370	300	250	235	12
215	220	220	230	240	260	305	420	315	260	240	245	13
215H	210	205H	220H	240	250	300	420H	405	325H	300	295	14
220H	210H	225	230	245	260	305	420	360	260	240	245	15
205H	215	205H	230H	250	270	320	U475F	U410F	U330F	F	U305F	16
210H	200H	220	220H	245	270	310	380H	U310F	260	240	250	17
215	200H	210H	200H	250	270	300	U410F	430	280	260	245	18
225H	220	215H	230	250H	270	300	U370F	U390F	290	260	260	19
B	B	U245B	245	255	270	300	405	440	330	240	235	20
220	220	220	235	250	270	305	435	U460F	305	280	255	21
220	215	225	230	245	260	310	500F	460	410	320	280	22
215	210	240	B	B	B	320	440	440	340	280	260	23
220	U245B	220	235	255	265	315	440	400	280	245	240	24
220	220	225	225	C	270	315	480	460F	320	260	280	25
220	225	230	240	240	270	315	480	500F	U380F	285	285	26
205H	200H	210H	230	C	C	C	C	420	380	380	300	27
220H	215H	220	240	240	260	320	480	U440F	F	325	320	28
220	U235B	220	240	240	260	310	500F	U500F	U480F	310	340	29
C	C	C	C	C	C	325	460H	480	340	280	290	30
U230B	U230B	220	240	250	260	320	440	480	400	360	280	31
26	26	28	27	25	27	28	28	29	28	28	29	Count
220	215	220	230	245	260	305	440	420	330	280	260	Median
215	215	220	230	245	260	310	435	420	335	285	265	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : h'F
 Unit Km
 Month . March 1958

TABLE 30—*contd.*
 Ionospheric Data
 75 0°E Mean Time

Latitude : to 2° N
 Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	260	C	C	C	C	220	275	245	235	B	B	230
2	235	230	C	C	C	C	C	C	235	C	C	C
3	240	235	220	U220F	230	245	270	245	230	220	230H	215
4	230	235	260	290	295	C	280H	245	235	220H	C	210
5	240	240	240	235	225	220	265	240	235	220	215H	205H
6	260	220	220	C	245	280	265	240	240	220	215	215H
7	235	235	235	240	240	225	265	245	230	220	215	200H
8	240	225	240	260	230	205	255	240	235	220H	220	225H
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	260	250	240	245	220	205	260	245	240	225	220H	210H
12	260	285	300	275	245	225	270	255	240	235	220	215
13	230	260	275	280	260	245	270	250	235	215	210	215
14	260	270	250	240	235	240	270	245	230	225	215H	220H
15	240	230	225	230	240	240	270	250	235	225	220	205
16	260	255	240	240	230	225	260	245	235	215	215	220
17	260	240	225	230	240	255	265	250	240	225	215	200H
18	260	270	310	300	235	220	260	240	230	215	215	220
19	260	260	295	330	300	230	260	240	230	220	220	215
20	275	240	250	260	260	245	270	245	240	230	225	230
21	240	240	220	245	310	320	275	250	230	220	215	220
22	290	290	255	225	220	220	260	245	240	230	230	225
23	240	240	230	225	240	280	260	245	235	220	220	215
24	250	230	240	260	240	220	260	255	240	230	220	U240B
25	290	280	260	245	220	220	260	250	230	220	225	C
26	305	300	280	260	240	230	265	250	210	230	230	225
27	C	C	C	C	C	C	C	C	C	C	C	210H
28	260	260	240	225	235	240	260	250	220	B	220	220
29	260	245	240	225	220	220	260	240	235	220	C	220
30	260	260	250	225	220	220	260	250	240	230	C	C
31	280	270	260	240	270	260	260	250	240	235	C	U225B
Count	28	27	26	25	26	26	27	27	28	25	23	26
Median	260	245	240	240	240	230	265	245	235	220	220	220
Mean	255	250	250	250	245	235	265	245	235	225	220	215

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

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

TABLE 30—*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	215	B	230	240	270	365H	F	380F	300	260	235	1
C	C	C	235	255H	280H	365	U500F	F	335F	U300F	245	2
220H	210H	215	B	270	285H	365H	460	420	350	280	240	3
205H	200H	230	240	245	280	365	160	360	340	260	240	4
215H	210H	230H	240	260H	285H	360H	370H	300H	265	260	270	5
215H	220	220	230	250	280	375H	400	400	300	280	245	6
220	220	225	235	255	280H	370	435FH	335	250	240	250	7
220H	225	215H	235	245	C	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
235	215	210H	235	250	275	375	440	380	310	260	245	10
210H	210H	215H	240	250	280	380	420	355	305	265	245	11
215	220	235	230H	255H	280	350	390	330	205	240	210	12
220	210H	225	240	250	285	380	380	275	255	240	240	13
210	215	205H	235	245	280	360H	425	U380FH	U305F	300	275	14
220	210H	230	240	255	280	375	400	300	260	240	265	15
210	210	215H	240	255	280	380	U500F	U390F	345	U300F	295	16
210	200H	215	240	250	290	360H	U385F	300H	250	245	265	17
210	215H	210H	240	260	290	360	U135F	340	260	210	255	18
225H	230	230	240H	255	280	340	U380F	U340F	260	265	255	19
B	B	250	255	265	280	370	430	395	280	240	235	20
220	215	225	B	260	290	380	440	400	290	255	280	21
220	220	220	240	260	280	390	440F	440	360	280	260	22
205	220	230	B	B	300	390	460	390	300	260	270	23
220	220	235	240	260	280	380	460	300	265	240	260	24
225	220	220	240	260	290	390	500	440F	260	270	285	25
C	230	U200HC	240	260	290	390	520	500F	U310F	280	260	26
200H	200H	230	240	C	C	C	500	370	380	C	280	27
220H	220	240	240	260	280	400	F	F	U440F	400	300	28
225	220	230	240	250	280	390	600F	470F	U440F	340	260	29
C	C	C	C	C	300	395	170	440	300	280	300	30
U230B	220	240	240	260	285	380	480	430	385	320	270	31
26	27	27	26	27	28	28	27	27	29	28	29	Count
220	215	225	240	255	280	375	440	380	300	260	260	Median
215	215	225	240	255	285	375	445	375	310	275	260	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic . h'E
 Unit . Km
 Month March 1958

TABLE 31
 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								120	\	B	B	B
2								C	C	C	C	C
3								110	110	\	\	\
4								115	105	\	C	C
5								120H	\	\	\	\
6												
7								115	\	115	\	\
8								115H	105	\	\	\
9								120	\	105	105	\
10								C	C	C	C	C
11								C	C	C	C	C
12								115	\	\	\	\
13								120	\	\	\	\
14								105	\	\	\	\
15								120	110	110	\	\
16								120	\	\	\	\
17								120H	115H	\	\	\
18								120	110	\	\	\
19								120	\	\	\	\
20								\	\	\	\	\
21								\	\	\	\	\
22								U110A	\	\	\	\
23								120	B	\	\	\
24								\	110	110	\	\
25								120	\	B	\	B
26								120	\	C	\	B
27								115	115	110	110	110
28								C	C	C	C	A
29								\	\	115	110	110
30								120	\	105	\	\
31								120	115	\	C	C
Count								23	9	7	3	2
Median								120	110	110		
Mean								115	110	110		

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic h'E
 Unit : Km
 Month March 1958

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

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic h'E
Unit . Km
Month . March 1958

TABLE 31—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							160	105	A	B	B	B
2							C	C	A	C	C	C
3								110	A	A	105	A
4								105	105	A	C	A
5							135H	105	105	A	105	A
6								A	A	A	A	A
7							140H	110	A	A	A	A
8								115	105	105	A	B
9							C	C	C	C	C	C
10							C	C	C	C	C	C
11								120	A	A	A	A
12							130	110	110	A	A	A
13							120H	105	A	A	A	A
14							130	115	110	A	A	A
15							120	110	A	A	A	A
16							140	115H	A	A	A	A
17								115	110	A	A	A
18							125	A	A	A	A	A
19								A	A	A	A	A
20							100	A	A	B	B	B
21							120H	A	A	A	A	A
22								120	A	A	A	A
23								115	110	A	B	B
24							120	A	B	B	A	B
25								120	115	A	B	C
26							120	120	110	B	110	A
27							C	C	C	C	A	A
28							120	A	110	B	110	A
29							120	A	110	A	C	A
30							120	120	115	A	C	C
31							120	110	A	A	C	B
Count							17	19	13	1	4	..
Median							120	115	110	..	..	..
Mean							125	115	110	..	..	..

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic h'E
 Unit · Km
 Month · March 1958

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

Sweep 1 0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es
 Unit : Km
 Month : March 1958

TABLE 32
 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	105	100	C	C	C	C		G	100	B	100	100
2			C	C	C	C	C	C	C	C	C	C
3								105	100	100	100	100
4							C	105	100	100	C	C
5								G	100	100	100	100
6								105	100	G	100	100
7								G	100	100	100	100
8		105						G	100	100	100	100
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11								G	100	100	100	100
12								140	100	100	100	100
13								G	100	100	100	100
14								G	100	100	100	100
15								100	100	100	100	100
16								G	100	100	100	100
17								G	100	100	100	100
18								100	100	100	100	100
19								100	100	100	100	100
20							120	100	100	100	100	100
21								100	100	100	100	100
22								G	100	100	100	100
23								110	100	100	100	100
24								G	100	100	100	100
25								G	100	100	100	100
26								100	100	100	100	100
27	C	C		C	C	C	C	C	C	C	C	100
28	105	105						100	100	100	100	100
29	110							G	100	100	100	100
30								130	100	100	C	C
31								100	100	100	100	100
Count	3	3					1	14	27	25	25	26
Median								100	100	100	100	100
Mean								105	100	100	100	100

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic h'Es
Unit Km
Month . March 1958

TABLE 32—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
100	100	100	100	100	100							1
C	C	C	C	100	105							2
100	100	100	100	B								3
100	100	G	100	100	100							4
100	G	G	G	G	110			130				5
100	100	G	G	G	100							6
100	100	100	100	G	105							7
100	100	100	100	100	100	C	C	C	C	C	C	8
C	C	C	G	C	C	C	C	C	C	C	C	9
C	100	100	100	100								10
100	100	100	100	100	105							11
100	100	100	100	100	105							12
100	100	100	100	100	105							13
100	100	100	100	100	105					120		14
100	100	100	100	100	105							15
100	100	100	100	100	100					115		16
100	100	100	100	G	100							17
100	100	100	100	100	100							18
100	100	100	100	100	105							19
100	100	100	100	100	100							20
100	100	100	100	100	100							21
100	100	100	100	100	G							22
100	100	100	100	B	G							23
100	100	100	100	100	100							24
100	100	100	100	100	100						120	25
100	100	100	100	105	105					120		26
100	100	100	100	C	G	C	C					27
100	100	100	100	100	105							28
100	100	100	100	100	100							29
C	G	C	C	C	C							30
100	100	100	100	100	100							31
27	27	25	25	22	23			1	.	3	1	Count
100	100	100	100	100	100							Median
100	100	100	100	100	100					.		Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic . h'Es
 Unit : Km
 Month March 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	105	C	C	C	C		G	100	100	B	100	100
2			C	C	C		C	C	100	C	C	C
3						C		105	100	100	100	100
4								100	100	100	C	100
5							G	100	100	100	100	100
6				C			120	100	100	100	100	100
7							G	105	100	100	100	100
8	105		C	C	C	C		G	100	100	100	100
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C						C	C	C	C	C	C
11								105	100	100	100	100
12							105	100	G	100	100	100
13							G	100	100	100	100	100
14							G	G	100	100	100	100
15							G	100	100	100	100	100
16							G	G	100	100	100	100
17								100	100	100	100	100
18							G	100	100	100	100	100
19								100	100	100	100	100
20								100	100	100	100	100
21							G	100	100	100	100	100
22								G	100	100	100	100
23								100	100	100	100	100
24							G	100	100	100	100	100
25							100	100	100	100	100	100
26			G	C	C	C	G	100	100	100	100	100
27	C	C					C	C	C	C	100	100
28	105	105					G	100	100	100	100	100
29							120	100	100	100	C	100
30	110						120	100	100	100	C	C
31							G	100	100	100	C	100
Count	4	1		..			5	23	27	26	24	27
Median			.		.		120	100	100	100	100	100
Mean				.			115	100	100	100	100	100

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es
 Unit . Km
 Month March 1958

TABLE 32—*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								1
C	C	C	G	105								2
100	100	100	B	100					120			3
G	100	100	100	100								4
G	G	G	G	105								5
100	100	G	G	100								6
100	100	100	100	G							105	7
100	100	100	100	100	C	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
100	100	100	100	100								10
100	100	100	100	105	110							11
100	100	100	100	105	105							12
100	100	100	100	100	105							13
100	100	100	100	105	110				120	115	110	14
100	100	100	100	105	110							15
100	100	100	100	100						115		16
100	100	100	100	100								17
100	100	100	100	100	100							18
100	100	100	100	100								19
100	100	100	100	100	105							20
100	100	100	B	100								21
100	100	100	100	G								22
100	100	100	B	B								23
100	100	100	100	100								24
100	100	100	100	C							120	25
100	C	100	100	105								26
100	100	100	100	C	C	C				C	105	27
100	100	100	100	100	110						115	28
100	100	100	100	100	100							29
C	C	C	C	C								30
100	100	100	100	100								31
26	26	26	23	24	9				2	2	5	Count
100	100	100	100	100	105		.	..	.		110	Median
100	100	100	100	100	105			.		.	110	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic . (M3000)F2

TABLE 33

Latitude 10 2° N

Unit :

Ionospheric Data

Longitude : 77° 5' E

Month . March 1958

75° 0' E Mean Time

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

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic · (M3000)F2

TABLE 33—*contd.*

Latitude : 10·2° N

Unit :

Ionospheric Data

Longitude . 77 5° E

Month · March 1958

75 0°E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
2 15	2 15	2 15	2 15	2 15	2 10	U2 05S	F	F	F	F	U3 10F	1
C	C	C	C	2 20	2 10	U2 00S	1 95	F	F	F	2 60	2
2 15	2 15	2 15	2 15	2 20	2 15	2 15	2 00	F	F	U2 25F	U2 50F	3
2 10	2 15	2 15	2 20	U2 15R	2 00	U1 85R	1 85	F	U2 20F	U2 35F	U2 65F	4
U1 95W	2 30	2 35	2 30	2 30	2 25	2 10	2 05	2 15	2 30	2 55	2 75	5
2 05	2 15	2 15	2 20	2 15	U2 15R	2 00	U1 90R	F	F	F	2 60	6
2 15	2 15	2 15	2 15	2 20	2 15	2 05	1 95	U2 00F	2 35	2 65F	2 85	7
2 05	2 10	2 05	2 05	2 15	2 15	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	2 10	2 05	2 10	2 10	2 10	2 10	1 95	2 00	2 20	U2 55S	U2 65F	10
C	2 15	2 10	C	2 05	C	2 00	1 95	C	C	2 45F	2 65	11
2 10	2 10	2 15	2 15	2 15	2 00	U1 95S	2 05	2 15	2 30	2 55	2 80	12
2 10	2 05	2 05	2 00	U2 05S	2 15	2 05	1 95	2 10	2 30	2 70	2 85	13
2 10	2 10	2 10	2 15	2 15	2 10	2 00	U1 90W	E1 90W	2 05	U2 25R	U2 15F	14
2 10	2 05	2 05	2 10	2 05	2 00	2 10	2 00	2 20	2 40	2 65	2 70	15
2 15	2 05	2 05	2 10	1 95	2 10	U2 00S	U1 95S	U2 00F	F	F	U2 40F	16
2 20	2 10	2 05	2 15	2 35	2 30	2 15	2 10H	U2 10SII	2 30	U2 45R	2 75	17
2 10	2 15	2 20	2 05	2 10	2 05	2 00	1 95	U2 05F	U2 50S	U2 65S	2 70	18
2 15	2 20	2 20	2 15	2 25	2 05	U2 00S	U1 95R	U2 00S	U2 30S	U2 40R	U2 50R	19
2 20	2 05	2 05	2 10	2 15	2 10	2 10	2 00	1 95	2 35	2 60	2 85	20
2 15	2 10	2 15	2 15	2 45	2 30	2 10	1 85	F	F	2 25	U2 15F	21
2 20	U2 25R	2 30	2 30	2 30	2 40	2 25	U2 00F	F	F	F	F	22
2 20	2 15	2 15	2 25	U2 45R	2 25	2 10	U1 90WR	U1 95F	2 15	F	2 65	23
2 15	2 15	2 10	2 05	2 05	2 00	2 05	U1 95S	U2 00S	2 30	2 60	2 80	24
2 15	2 35	2 15	2 25	2 20	2 20	R	W	F	F	R	2 50	25
2 15	2 15	2 10	2 10	C	2 05	2 05	1 95	F	2 15	2 50	R	26
2 20	2 15	2 10	2 10	C	C	C	C	F	F	F	F	27
2 10	2 05	2 05	2 10	2 15	U2 15S	U2 10S	U2 00S	F	F	F	F	28
2 10	2 10	2 10	2 10	2 10	2 00	U2 00S	U1 95F	F	F	F	F	29
C	C	C	C	C	C	U2 05R	W	2 05	U2 15S	2 30	U2 45S	30
2 10	2 10	2 15	2 10	2 10	2 00	R	W	F	U1 95F	F	F	31
26	28	28	27	27	27	26	27	15	17	18	23	Count
2 15	2 15	2 10	2 15	2 15	2 10	2 05	1 95	U2 00	2 30	2 50	2 65	Median
2 15	2 15	2 15	2 15	2 15	2 10	2 05	1 95	U2 05	2 25	2 50	2 65	Mean

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 33—contd.

Latitude · 10° 2' N

Unit :

Ionospheric Data

Longitude : 77° 5' E

Month March 1958

75° 0'E Mean Time

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

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic . (M3000)F2

TABLE 33—contd.

Latitude 10 2° N

Unit

Ionospheric Data

Longitude . 77 5° E

Month : March 1958

75 0°E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2 20	2 15	2 15	2 15	2 15	0 05	1 05	F	F	U2 55E	F	U2 60E	1
C	C	C	U2 35R	2 15	2 15	1 90	U2 00F	F	U2 40I	F	F	2
2 15	2 15	2 20	R	2 25	2 20	2 00	U1 90E	F	F	U2 40E	F	3
2 15	2 15	2 20	2 15	2 10	2 00	1 85	F	U2 10F	F	U2 60F	2 50	4
2 30	2 30	2 30	2 30	2 25	2 15	2 05	2 05	R	2 40	2 70	2 75	5
2 10	2 15	2 20	2 20	2 15	U2 05R	U1 95R	U1 90I	F	F	U2 15F	2 65	6
2 10	2 10	2 10	2 15	2 20	2 15	2 00	2 00	U2 15F	U2 55I	2 80	2 90	7
2 10	2 05	2 05	2 15	2 15	C	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
2 15	2 10	2 10	2 10	2 10	2 10	2 00	2 00	2 10	2 40	2 60	2 80	10
C	2 15	C	C	C	C	2 00	1 95	2 15	U2 35G	U2 45G	2 60	11
2 15	2 10	2 15	0 15	J2 05R	J1 90R	1 00	2 05	2 20	U2 40S	0 65	2 85	12
2 05	0 05	0 05	2 00	U2 10S	2 10	1 95	2 05	2 25	U2 65R	2 85	2 85	13
2 10	2 10	2 10	2 15	2 10	2 05	2 00	1 90I	U1 90E	S	F	J2 55R	14
2 05	2 00	2 10	0 10	2 00	2 05	2 05	2 15	2 30	2 60	2 70	2 60	15
2 10	2 05	2 05	1 95	2 00	U2 05S	1 95	U1 90I	F	U2 10I	U2 25E	F	16
2 15	2 05	2 05	2 25	2 35	2 25	2 05	U2 05M	U2 25M	U2 10R	2 55	2 75	17
2 15	2 15	2 10	2 05	2 10	2 00	U2 05S	U2 00R	U2 10E	U2 55S	2 70	2 65	18
2 15	2 15	2 15	2 15	2 10	2 00	J2 00S	U1 95I	2 15	2 35	2 45	2 70	19
2 15	2 05	2 10	2 10	2 15	2 05	2 05	2 00	2 15	2 35	2 70	2 90	20
2 10	2 10	2 10	U2 45R	2 35	2 15	1 95	1 90	F	F	F	U2 70R	21
2 25	2 25	2 25	2 30	2 10	U2 35S	2 15	F	F	F	F	U3 20E	22
2 20	2 15	2 20	B	2 30	2 25	2 00H	F	U2 05I	S	U2 50E	2 85	23
2 15	2 15	2 05	2 05	2 00	0 00	2 00	U1 95F	2 15	U2 45S	2 75	2 85	24
2 10	2 15	2 20	C	2 20	U2 15R	U1 95R	J1 85W	F	2 10	F	2 70	25
2 15	2 15	2 10	2 10	C	2 10	2 05	1 90	1 95F	2 15F	2 50	C	26
2 20	2 15	2 10	2 15	C	C	C	F	F	F	C	F	27
2 05	2 05	2 10	2 10	2 15	U2 15S	2 00	U2 00F	F	F	F	F	28
2 10	2 10	2 10	2 10	2 05	U2 00S	U2 00W	F	F	F	F	F	29
C	C	C	C	C	0 10	U2 00W	U0 00R	2 20	2 30	R	U2 15S	30
2 10	1 15	2 15	R	2 10	U2 00R	W	U1 90F	W	F	F	F	31
27	28	27	21	26	27	28	23	17	18	18	21	Count
2 15	2 15	2 10	2 15	2 15	2 05	2 00	2 00	2 15	2 40	2 60	2 70	Median
2 15	2 10	2 15	2 15	2 15	2 10	2 00	1 95	2 15	2 40	2 60	2 75	Mean

Sweep 10 Mc. to 25 0 Mc. in 27 seconds.

Characteristic . foF2
Unit : Mc
Month April 1958

TABLE 34
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	U9 OF	U8 5F	U8 8F	U9 6F	U10 2F	10 8F	U11.9S	13 8	14 8	15 1	14 7	13 7
2	U10 9F	F	F	10 2	F	F	12 2	13 4	13 9	12 9	12 7	12 4
3	U11 4F	10 5	10 2	10 2	9 6	8 8	10 2	12 9	14 1	U13 6R	13 0	U12.3R
4	U11 7F	F	U10 4F	F	9 6F	9 3	10 1	12 4	13 1	12 3	11 8	C
5	10 8	10 9	10.8	11 4	11 2	10 2	11 4	13 2	13 8	U13 6R	13 3	12 9
6	F	F	F	F	11 6	10 8	10 8	13 3	14 1	14.7	C	C
7	F	F	F	F	U10 7F	9 6F	U11 2S	U14 4F	14 8	15 1	U14 2R	13.1
8	F	U12 OF	U10 8F	F	9 9F	6 8	8 8	12 4	13 8	15 1	11 8	12 3
9	U13 5F	U11 6F	9 8	8 8L	8 4F	U8 6F	U10 3F	U12 7F	U14 4F	U14 7R	U14 OR	12 9
10	F	F	F	F	F	10 2	U11 3F	F	F	U14 2R	12 5	11 4
11	C	C	C	10 5	U9 OS	6 5	U8 5C	11 5	13 4	14 2	13 8	12 3
12	F	F	F	U9 8S	C	U6 8S	U8 1S	11 4	13 1	13 6	12 6	11 2
13	F	F	F	11 0	11 0	F	F	U10 9F	C	C	C	C
14	F	F	F	U9 7F	FS	FS	FS	FS	U13 1S	13 5	11 8	11.5
15	J12 OS	10 3	10 0	U10 2S	U9 3S	9 2	U9 4S	U11 9S	13 2	11 6	11 6	11 8
16	F	U9 OF	10 0	U10 OS	9 0	J7 6S	U9 OS	12 2	J11 2R	14 2	U13 OR	11 2
17	12 7	U11 9S	10 6	U9 6S	7 6	6 4	8 6	U11 8S	14 0	U15 OR	11 9	14 6
18	11 5	11 0	R	U10 OR	10 4	10 4	12 1	U13 3R	U13.7R	U13 4R	U13 2R	U12 9R
19	13.0	11 3	10 9	10 3	10 1	U9 7S	10 6	10 5	12 8	13 8	R	13 2
20	12 4	11 0	U9 3S	8.4	8 4	6 8	8 4	11 9	13 2	12 6	11 6	11.8
21	12 1	10.1	10 3	9 1	7 8	7 1	U9 8S	12 0	13 3	12 5	12 2	11 9
22	U9.6S	U9 6S	U9 3F	U9.5F	8.1	6 5	U9 9S	12 7	14 0	14 1	12 7	12 0
23	U11 OF	11 6	U11 7S	10 6	8 3	5 5	8 3	11 5	12 7	12 8	11 9	11 6
24	F	F	F	U11 8S	11 3	10 0	C	C	C	C	C	C
25	F	11 5	10 8	J11 OF	10 9	9 4	10 5	12.3	13 0	13.2	12 8	12 6
26	F	F	U9 6F	U9 8S	9 2	7 3	8 7	11 5	12 8	13 0	12 0	11 8
27	F	U9 6F	F	F	U10 OF	U9 5F	10 5	12 6	C	14 0	13 0	12.2
28	F	U10 6F	F	12 6	F	U11 8F	U12 OF	U13 2F	13 8	13.6	12 6	12 8
29	11 0	10 0	10 0	10 6	11 3	U10 3S	11 2	13 5	14 4	15 2	14 6	13 7
30	U10 4S	10 0	10 4	U9 7S	8 8	8 0	10.2	12 9	14 3	14 4	12 9	12 0
Count	16	19	18	24	25	27	27	27	26	28	26	26
Median	U11 4	10 6	10 2	10 2	9 6	9 2	10 2	12 4	13 8	13 7	12 8	12 3
Mean	U11 4	10 8	10 2	10 2	9 7	8 7	10 1	12 4	13 7	13 8	13 0	12 4

Sweep 1 0 Mc. to 25.0 Mc in 27 seconds.

Characteristic foF2
Unit Mc
Month . April 1958

TABLE 34—*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
12.6	12.4	12.8	13.0	12.6	12.6	U11.0W	U8.4F	U8.2F	F	F	F	1
11.4	11.9	12.4	12.7	12.4	12.5	U11.9S	11.4	U11.2F	U11.8S	12.8	12.9	2
11.9	C	U12.0R	12.4	12.1	U12.1S	U11.9S	U10.8W	F	F	F	F	3
C	11.8	12.2	12.4	12.6	12.0	11.4	U9.8W	8.0	U9.2F	F	U9.3F	4
12.2	12.0	12.4	12.7	12.5	12.6	12.6	11.6H	F	F	F	F	5
C	11.6	12.3	12.9	13.2	13.3	12.9	11.4	U10.6F	U10.8F	U11.3F	U12.1F	6
13.0	12.6	12.6	12.7	13.0	13.0	U12.4R	U10.2W	F	F	F	F	7
11.3	11.4	11.7	12.3	12.5	12.8	12.7	11.2	F	F	U13.0F	13.8	8
12.4	12.1	11.8	12.0	U12.0R	U11.8S	C	U10.6R	10.1F	F	12.6	12.4	9
10.9	10.7	10.9	C	11.5	U11.6S	C	C	C	C	C	C	10
11.8	11.8	12.3	13.0	13.6	13.5	12.9	U11.4F	F	F	F	C	11
10.6	10.6	11.0	11.8	U12.0S	U11.8S	11.3	U9.5W	F	F	F	U10.9F	12
C	C	C	C	C	12.8	12.2	13.5	F	F	F	F	13
11.5	11.2	U11.5S	U12.0S	12.6	13.0	12.8	11.3	U10.4F	F	U12.1F	12.3	14
11.2	11.1	11.4	12.2	12.8	12.7	U11.6S	U9.8S	F	F	F	F	15
10.8	11.3	12.6	12.9	13.1	13.4	13.4	12.2	U12.5R	U14.2R	14.8	14.0	16
14.0	13.8	13.8	14.0	14.0	U13.8R	U13.2R	11.8	U11.6S	12.6	13.0	U13.0R	17
U11.8R	U11.8R	U11.9R	11.9	12.4	12.7	12.8	12.0	U12.3F	13.4	R	14.2	18
12.8	12.6	12.8	12.8	13.1	13.7	13.1	U11.6S	11.0	U11.8S	12.2	12.8	19
11.1	11.2	11.8	12.2	12.3	12.4H	U11.6S	10.7	10.9	11.5	12.2	C	20
11.5	11.5	11.5	11.8	11.5	11.4	11.0	10.1	9.2	F	U8.9F	U8.9F	21
11.8	12.0	12.4	12.8	12.7	12.6	12.5	11.0	U10.0F	U10.4F	10.6	11.4	22
11.8	11.8	12.1	12.4	12.5	12.6	U11.8S	10.4	U9.6F	F	U11.5S	12.6	23
C	13.1	13.8	14.0	13.8	14.0	13.5	11.7	U11.3F	F	13.0	F	24
12.4	12.5	12.2	12.0	12.2	12.2	11.5	9.2	9.0	F	F	C	25
11.6	11.6	11.8	11.8	12.0	U11.5S	U10.6S	U8.6F	F	F	F	F	26
12.0	12.0	12.4	12.0	11.9	11.4	U10.5S	U8.7W	F	F	F	F	27
12.8	12.2	11.8	12.0	12.4	12.4	U11.5S	U10.6W	F	U10.5F	10.9	11.4	28
12.9	13.0	13.4	13.6	U13.3R	12.8	11.3	9.4	9.3	10.6	U11.2R	U11.4S	29
12.0	12.1	12.1	12.4	12.5	12.6	12.0	11.0	10.2	11.5	U11.7S	12.0	30
26	28	29	28	29	30	28	28	18	12	16	17	Count
11.8	11.8	12.2	12.4	12.5	12.6	12.0	10.9	U10.3	U11.5	12.2	12.3	Median
11.9	11.9	12.2	12.5	12.6	12.6	12.1	10.6	U10.3	U11.5	12.0	12.1	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic foF2
Unit Mc
Month April 1958

TABLE 34—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	u8 8F	u8 4F	u9 2F	u9 6F	u10 6F	10 8	13 0	14 3	u15 1S	15 1	13 8	13 0
2	10 5	F	u9 8F	10 6	F	F	13 3	13 8	13 6	12 6	12 9	12 2
3	11 0	10 4	10 4	10 1	9 3	8 7	11 4	13 7	14 1	13 4	12 7	12 1
4	11 4	11 0F	10 4	F	9 8	8 8	11 3	13 0	12 7	12 0	C	C
5	u10 8F	10 8F	11 3	11 4	10 8	9 8	12 6	13 5	14 0	13 7	13 1	12 6
6	F	F	u10 8F	11 4	11 3	10 1	12 1	13 4	14 3	14 5	C	C
7	F	F	F	F	u10 0F	9 6F	13 0	14 5F	15 0	14 8	13 3	12 9
8	F	u11 4F	10 4F	F	8 4	6 3	10 8	13 2	14 4	15 1	13 3	11 7
9	F	10 7	u9 4F	F	F	8 7F	u11 7F	u13 9F	u14 4F	14 8	u13 0R	12 8
10	F	F	F	F	F	10 5F	F	F	u14 4F	13 4	12 0	11 1
11	C	C	C	9 9	7 6	u6 7S	10 3	12 6	14 0	14 1	13 1	C
12	F	10 6	F	u9.1S	7 6	u5 8F	u9 7S	12 4	13 5	13 2	11 7	10 9
13	F	F	u10 4F	11 0	F	F	F	u12 2F	C	C	C	C
14	F	u10 2F	u9 4F	F	u9 9FS	FS	FS	u12 1FS	13 5	12 9	11 4	11 5
15	u11 1F	10 0	10 3	9 6	9 1	8 6	10 7	12 8	12 8	11 2	11 8	11 4
16	u8.8F	u9 4S	10 2	u9 6S	8 7	7 2	10 8	13 4	J14 2R	14 2	11 6	11 0
17	12 3	u11 5S	u10 2S	8 6	7 4	u6 2S	u10 3S	13 0	14 5	15 0	14 8	14 2
18	10 8	u10 6R	u11 1R	10 3	10 4	11 0	13 2	13 3	u13 1R	u13 1R	u13 2R	u11 8R
19	u11.6S	11 0	10 3	10 2	10 1	u9 8S	10 5	11 4	13 8	13 8	13 4	12 8
20	11 6	10 4	8 8	8 3	u7 4S	u6 0S	10 4	12 6	13 0	11 8	11 8	11 6
21	C	10.4	u9 7S	8 6	7 2	8 0	11 2	12 8	13 0	12 4	J12 2R	11 8
22	J9.6S	F	u9 4F	9 4	J7 2S	7 7	11 4	13 4	14 4	13 8	12 4	11 9
23	11 2	12 0	11 2	9 5	6 8	6 2	10 1	12 4	12 8	12 1	11 6	11 6
24	u11 4F	F	u10 8F	12 0	10 6	C	C	C	C	C	C	C
25	11 4	10 7	11 0	11 2	10 2	9 2	11 4	13 0	13 2	12 8	12 7	12 4
26	F	F	u9 6F	9 8	8 3	u7 2S	10 4	12 5	J13 2R	12 4	11.8	11 6
27	u9 6F	u10 4F	F	F	u10 4F	u9 2S	11 5	13 6	C	13 8	12 6	12.2
28	F	u11 2F	F	12 5	u12 2F	u11 2F	u13 0F	u13 6F	13 6	12 8	12 6	12 9
29	10 4	10 0	u10 2S	11 0	10 8	10 2	12 4	14 0	14 8	15 1	14 2	13 4
30	u10 1S	10 5	u10 0S	u9 2S	8 5	8 6	u11 7S	13 8	14 5	11 2	12 4	11 9
Count	18	21	24	23	26	26	26	28	27	28	26	25
Median	u10 9	10 6	10 2	9 9	9 6	8 7	11.4	13 2	14 0	13 6	12 6	11 9
Mean	u10 7	10 6	10 2	10 1	9 3	8 5	11 5	13 2	13 8	13 5	12 7	12 1

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic · foF2
Unit Mc
Month · April 1958

TABLE 34—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
12 3	12 6	13 0	12 8	12 6	U11 8s	U9 6W	U8 0F	F	U10 2F	F	F	1
11 4	12 2	12 4	12 8	12 5	12 6	U11 7W	11 0	U11 5s	U11 9s	13 2	11 9	2
11 8	C	12 2	12 3	12 0	U11 9s	U11 5W	F	F	F	F	F	3
11 6	12 0	12 3	12 6	12 4	11 7	U10 7W	U9 0W	F	U9 2F	F	10 5	4
12 0	12 1	12 6	12 6	12 6	12 6	12 2	U10 6RH	F	F	F	F	5
C	11 8	12 7	13 0	13 2	13 2	12 3	U10 9R	U10 6F	U10 8F	U11 5F	F	6
12 8	12 2	12 7	12 7	13 0	12 8	11 6	F	F	F	F	F	7
11 2	11 6	11 9	12 3	12 7	12 8	12 2	F	F	F	U13 2F	13 8	8
U12 1R	11 8	11 8	11 9	U11 8s	U11 6s	11 1	U10 1R	10 1F	U11 7s	12 3	F	9
10 8	10 8	C	11 5	U11 6s	C	C	C	C	C	C	C	10
11 8	12 0	12 6	13 4	13 7	13 2	J12 2s	F	F	F	F	C	11
10 6	10 8	11 5	11 9	12 0	U11 4s	U10 8s	F	F	U10 0F	F	U10 6F	12
C	C	C	C	C	12 6	11 3	F	F	F	F	F	13
11 3	11 3	11 7	12 3	12 8	12 9	12 4	F	U10 7F	FS	F	U12 5F	14
11 2	11 1	11 7	12 5	12 8	12 4	J11 1s	U8.6k	F	F	F	F	15
10 8	12 0	12 8	13 0	U13 2R	13 5	12 9	12 0	13 7	U14 4R	U14 2s	13 4	16
13 7	13 8	13 8	14 0	14 0	U13 4R	U13 0R	U11 4R	U11 8s	12 8	R	12 4	17
U11 8R	U11 8R	12 0	12 1	12 6	12 6	12 5	12 0	13 2	13 8	14 0	14 0	18
12 5	12 6	12 6	13 0	13 2	13 8	12 4	11 0	11 4	U11 9s	U12 6R	U13 0R	19
11 1	11 4	12 0	12 3	12 4	12 2	11 1	10 7	11 0	U11 8s	12 7	13 1	20
11 5	11 5	11 6	11 8	11 6	11 4	10 6	U9 6s	F	U9 0F	U9 0F	U9 0F	21
12 0	12 2	12 6	12 8	12 5	12 5	12 1	10 2	F	U10 4F	U11 0F	F	22
11 8	12 0	12 2	J12 3R	12 4	12 4	11 1	9 8	F	U10 9F	F	U12 2F	23
12 7	13 5	13 9	13 8	13 9	13 8	12 9	11 2	F	13 0	U12 6F	F	24
12 4	12 3	12 0	11 9	12 2	11 8	11 0	9 2	U9 4F	F	C	F	25
11 6	11 8	U11 8s	12 0	U11 6s	11 0	U10 0W	F	F	F	F	F	26
C	12 3	12 4	12 0	11 8	10 8	U9 6s	F	U8 6F	F	U11 5F	F	27
12 4	12 0	11 8	12 0	12 5	J12 0s	U11 2s	U9 6F	F	U10 7s	11 4	U11 4s	28
13 0	13 1	13 6	13 5	13 0	U12 0s	10 2	8 9	U9 6s	U11 5s	11 4	11 0	29
12 2	12 0	12 2	U12 4R	U12 5R	12 4	U11 6s	10 6	11 0	U11 8s	U11 8s	U11 5s	30
27	28	28	29	29	29	29	20	13	18	15	15	Count
11 8	12 0	12 2	12 4	12 5	12 4	11 5	10 4	U11 0	11 6	12 3	12 2	Median
11 9	12 0	12 4	12 5	12 6	12 4	11 5	10 2	U11 0	11 4	12 2	12 0	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic foF1
 Unit : Mc
 Month . April 1958

TABLE 35
 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	C	C
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 _H	L _H
16								L	L	L	L	L
17								L	L	L _H	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L _H
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 _H
30								L	L	L	L	L
Count												
Median												
Mean												

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic . foF1
 Unit Mc
 Month April 1958

TABLE 35—*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
L	L _H	L	L	L								1
L	L	L	L	L								2
L	C	L	L	L	L							3
C	L	L	L	L								4
L	L	L	L	L								5
C	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								10
L	L	L	L _H	L	L							11
L	L _H	L	L	L	L							12
C	C	C	C	C	L							13
L	L	L	L	L	L							14
L	L _H	L _H	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 _H	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
C	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L _H	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
	.		..	.								Count
..		..										Median
..				.								Mean

Sweep 10 Mc. to 25.0 Mc. in 27 seconds.

Characteristic · foF1
 Unit . Mc
 Month April 1958

TABLE 35—*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
3								L	L	L	L	L
4								L	L	L	C	C
5								L	L	L	L	L
6								L	L	L	C	C
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	L	L	L
13								L	C	L	C	C
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	E	L	L ^H
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24							C	C	C	L	C	C
25								L	L	L	L	L
26							L	L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L ^H	L	L	L
29							L	L	L	L ^H	L ^H	L ^H
30							L	L	L	L ^H	L ^H	L ^H
Count												
Median												
Mean												

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic f_oF1
 Unit Mc
 Month April 1958

TABLE 35—*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	C	L	L	L								3
L	L	L	L	L								4
L	L	E	L	L								5
C	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 _{ir}	L	L								11
L _{ir}	L	L	L	L								12
C	C	C	C	C								13
L	L	L _{ir}	L	L								14
L	L _{ir}	L _{ir}	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 _{ir}	L _{ir}	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 _{ir}	L	L								26
C	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L _{ir}	L	L	L _{ir}								30
												Count
												Mechan
..												Mean

Sweep 10 Mc. to 250 Mc. in 27 seconds.

Characteristic foE
 Unit Mc
 Month April 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								R	R	A	A	A
2								3 1	A	A	B	A
3								3 1	A	A	A	A
4								A	A	A	A	C
5								A	A	A	A	A
6								3 0	A	A	C	C
7								2 9	A	A	A	A
8								3 0	A	A	A	A
9								3.0	A	A	A	A
10								A	A	A	B	A
11								2 8	A	A	A	A
12								A	A	A	A	A
13								2 9	C	C	C	C
14								\	A	A	A	A
15								u2 9A	A	A	A	A
16								2 8	A	A	A	B
17								3 0	3 1	A	A	A
18								A	A	B	B	B
19								3 3	A	A	B	B
20								\	A	A	A	A
21								3 0	A	A	A	A
22								2 1	2 1	A	A	A
23								A	A	A	A	A
24								C	C	C	C	C
25								3 0	A	A	A	A
26								2 1	A	A	A	A
27								2 3II	A	A	A	A
28								A	A	A	A	B
29								2 1	A	A	A	A
30								3 1	A	A	A	A
Count							3	16	0			
Median							.	3 0				
Mean								2 9				

Sweep 1.0 Mc. to 25.0 Mc. in 27 s. conds.

Characteristic foE
Unit . Mc
Month April 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	A							1
A	A	A	A	A	A							2
A	C	A	A	A	A							3
C	A	A	A	A	A							4
A	A	A	A	A	3 6							5
C	B	A	A	R	F							6
A	A	A	A	B	A							7
A	A	A	A	A	A							8
A	A	A	A	u ₃ 5 ^A	A							9
A	A	A	A	A	A							10
A	A	A	A	A	3 0							11
A	A	A	A	3 3	A							12
A	C	C	C	A	A							13
A	A	A	A	C	A							14
A	A	A	A	A	A							15
A	A	A	A	A	A							16
A	A	A	A	A	A							17
B	B	A	A	A	A							18
B	A	A	A	u ₃ 8 ^A	A							19
A	A	A	A	A	A							20
A	A	A	A	A	A							21
A	A	A	A	A	A							22
A	A	A	A	A	2.4							23
A	A	A	A	A	2.3							24
A	A	A	A	A	A							25
A	A	A	A	B	A							26
A	B	A	A	A	A							27
A	A	A	A	A	A							28
A	A	A	A	A	A							29
A	A	A	A	A	A							30
			1	3	3							Count
												Median
												Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic foE
Unit Mc
Month : April 1958

TABLE 36—*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 6	A	A	A
2								2 7	A	A	B	B
3								2 6	A	A	A	A
4								2 5	A	A	A	C
5									A	A	A	A
6									3 3	A	A	C
7								2 6	U3 4A	A	A	A
8								2 6	A	A	A	A
9									A	A	A	A
10								U2 7R	A	A	A	A
11								2 4	A	A	A	C
12								2 6H	A	A	A	A
13								2 5	U3 3A	C	C	C
14								2 5	A	A	A	A
15								U2 6R	A	A	A	A
16								2 6	3 3	A	A	A
17								2 5	3 3	A	A	A
18									A	A	B	B
19									A	A	A	B
20								2 8	A	A	A	A
21								2 6	A	A	A	A
22								2 4	A	A	A	A
23								2 6II	A	A	A	A
24								C	C	C	C	C
25								2 6	U3 2A	3 8	A	A
26								2 8II	A	A	A	A
27								A	A	C	A	A
28								A	A	A	A	B
29								2 6	A	3 8	A	A
30								R	3 3	A	A	A
Count								20	8	2	..	.
Median								2 6	3 3			
Mean								2 6	3 3			

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic foE
 Unit Mc
 Month . April 1958

TABLE 36—*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	A							1
A	A	A	A	A	R							2
A	A	C	A	A	A							3
C	A	A	A	A	A							4
A	A	A	A	A	A							5
C	C	B	A	B	U ₃ 4R							6
A	B	A	A	B	A							7
A	A	A	A	A	A							8
A	A	A	A	A	A	R						9
A	A	A	A	A	A	C						10
A	A	A	A	U ₃ 4R	U ₃ 0A							11
A	A	A	A	A	A							12
C	C	C	C	C	C							13
A	A	A	A	A	A							14
A	A	A	A	A	A							15
A	A	A	A	R	3.2							16
A	A	A	A	A	A							17
B	B	B	A	A	A							18
B	A	A	A	A	U ₃ 1A							19
A	A	A	A	A	A							20
A	A	A	A	A	A	A						21
A	A	A	A	A	A	F						22
A	A	A	A	A	2.7							23
C	A	A	A	A	A							24
A	A	A	A	A	3.0							25
A	A	A	A	A	A							26
A	C	A	A	A	A							27
A	A	A	A	A	A							28
A	A	A	A	A	A							29
A	A	A	A	A	A							30
			.	1	6							Count
	.	.			3.0	.						Median
					3.1							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic foEs
Unit Mc
Month April 1958

TABLE 37
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 9	G	11 0	11 2	12 4
2								8 4	10 6	11 0	10 6	12 0
3		4 0						G	10 6	11 0	12 0	12 0
4								8 8	11 0	12 0	12 2	C
5								8 6	12 0	12 0	12 0	12 6
6								5 0	10 0	11 4	C	C
7								G	11 0	11 8	12 6	12 4
8		5 0						G	9 8	11 0	12 0	12 2
9	6 0			5 4	3 4		6 0	7 4	9 8	11 4	12 2	12 0
10					7 0			8 4	10 4	11 0	12 0	12 0
11	C	C	G					G	9 7	11 1	12 0	12 6
12					C			8 0	10 1	12 0	12 6	12 0
13								u8 1s	C	C	C	C
14								u6 2s	11 0	12 0	12 1	12 3
15								8 2	11 1	11 8	12 2	11 8
16								G	9 4	11 4	11 5	12 0
17								G	G	10 8	10 0	11 6
18								8 0	8 6	9 6	10 0	9 0
19								G	8 4	10 0	9 0	11 4
20								8 4	10 0	11 6	12 8	12 6
21				C	C			5 6	11 0	12 0	12 5	12 3
22							G	6 5	10 6	11 2	12 2	12 4
23								u8 4s	11 0	11 8	12 8	12 4
24							C	C	C	C	C	C
25								9 0	11 0	11 4	12 2	12 4
26							2 3	8 1	11 0	11 6	12 6	12 4
27							G	8 2	C	12 0	12 4	12 4
28							4 0	4 0	11 0	12 0	12 2	12 0
29							2 2	4 0	10 0	11 0	12 6	12 2
30				u6 4s				8 3	11 0	11 4	12 6	12 4
Count	1	2		2	2		6	29	27	28	27	26
Median							2 2	7 4	10 6	11 4	12 2	12 2
Mean								7 3	10 4	11 4	11 0	12 1

Sweep 1 0 Mc to 25 0 Mc. in 27 seconds.

Characteristic foEs
Unit Mc
Month April 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
12.4	11.2	12.0	12.0	9.8	8.6							1
12.0	11.4	11.8	10.6	6.8	8.0							2
12.2	C	11.0	11.0	9.2	8.2							3
C	11.6	11.6	12.0	9.6	8.6							4
11.8	12.0	11.4	12.0	9.6	8.2							5
C	11.0	11.0	11.0	7.4	7.0				2.2			6
12.4	12.2	11.6	12.0	10.6	8.0				2.2	2.6		7
12.4	12.0	12.1	12.0	7.0	8.4					3.0		8
12.2	12.4	12.0	12.0	10.0	8.0						7.0	9
12.0	12.0	11.8	10.4	9.0	6.4	C	C	C	C	C	4.8	10
											C	
11.0	12.6	12.1	11.1	8.2								11
11.1	12.4	12.1	11.7	10.1	10.8 ^{0.5}							12
C	C	C	C	C	8.0							13
12.0	12.3	12.0	11.7	9.0	10.8 ^{1.5}					3.9		14
12.0	11.8	12.0	11.0	9.4	8.4							15
12.0	11.0	10.6	9.4	9.6	8.0							16
12.2	11.8	11.5	10.6	10.1	10.8 ⁰							17
8.4	8.2	11.2	11.0	10.6	8.2				4.4			18
9.0	10.4	11.8	11.6	9.6	7.0				3.8	4.0		19
12.6	13.0	12.6	12.0	10.0	9.0							20
12.7	12.6	12.6	11.6 ^s	10.5 ^s	8.0	S				3.8		21
12.2	11.8	11.4	11.0	8.3	7.0				2.9	6.0	3.8	22
12.1	12.0	12.0	11.6	8.5	8.0							23
C	12.0	10.6	11.5	8.6	8.4				14.7 ^s	4.7	15.2 ^s	24
11.8	12.6	12.0	12.0	9.0	8.0						C	25
12.2	12.3	12.0	12.0	9.2	8.0							26
12.4	11.7	12.0	12.0	9.8	8.0					2.9		27
12.2	12.0	11.8	12.2	9.8	8.6					2.8		28
11.2	11.4	11.6	12.2	9.8	8.2							29
3.0		12.0	12.2	9.6	7.0				14.6 ^s			30
26	28	29	29	7	29				7	9	4	Count
12.2	12.0	11.8	11.7	9.6	8.0				3.8	3.8		Median
11.9	11.8	11.7	11.6	9.2	8.0				3.5	3.7		Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds

Characteristic foEs
 Unit : Mc
 Month : April 1958

TABLE 37—*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	G	11.0	11.0	12.0	11.4
2							G	8.6	11.0	12.0	12.0	12.2
3	2.5						G	10.4	11.0	12.0	12.0	11.0
4							G	10.6	12.6	12.4	C	C
5								11.0	12.0	12.2	12.0	12.1
6								G	11.0	12.2	C	C
7							G	8.8	11.8	12.1	12.0	11.1
8	3.8	2.6	3.0				G	6.8	11.0	11.6	12.0	12.0
9				5.0	4.0			9.0	10.4	12.2	12.0	12.0
10							G	11.0	11.1	12.2	12.2	12.0
11												
12	C	C	C				G	9.0	10.7	12.0	12.2	12.4
13							G	8.7	11.3	12.2	12.1	12.6
14							G	10.6s	C	C	C	C
15							G	10.6s	11.8	11.9	12.2	11.8
16							G	11.0s	11.2	12.0	12.0	11.7
17							G	C	11.0	11.2	12.2	11.8
18							G	G	9.6	12.0	12.0	11.0
19								7.6	8.6	10.0	9.0	9.6
20								7.6	10.0	10.0	11.0	11.0
21							7.0	10.2	10.1	12.0	12.6	12.8
22				10.6s								
23							3.0	10.6	11.5	12.4	12.5	12.4
24							2.7	8.1	11.0	11.7	12.2	12.0
25						5.2	G	10.1	11.2	12.5	12.4	12.6
26				9.0			G	C	C	C	C	C
27							7.6	10.8	11.1	12.0	12.0	12.6
28							G	11.0	11.0	12.0	12.4	12.6
29							5.6	10.0	C	12.3	12.6	12.4
30			3.4	4.0			6.6	10.2	11.1	12.6	12.0	11.8
							6.0	9.8	G	12.0	12.6	12.0
							G	G	11.6	12.4	12.4	11.2
Count	2	1	2	4	1	1	24	29	27	28	26	26
Median								9.6	11.0	12.0	12.0	12.1
Mean							5.2	9.6	11.0	11.9	12.0	12.0

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic foEs
 Unit Mc
 Month April 1958

TABLE 37—*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
12 2	12 0	U11 0C	10 0	9 8	8 6							1
12 0	11 4	11 0	9 0	8 0								2
12 0	C	11 4	10 4	9 0								3
12 2	12 0	12 1	10 2	9 8	S							4
12 0	12 0	11 4	10 2	8 8								5
C	11 2	10 8	7 4	7 0					2 4			6
12 2	12 0	12 2	B	9.0	7 8							7
12 1	12 0	11 8	8.6	8 2	7 6				3 0	5 2	8 6	8
12.4	12 0	12 6	11 0	9 0	6 0					3 4		9
12 2	12 6	12 0	10 0	8 0	C	C	C	C	C	C		10
12 2	12 4	12 0	8 9	8 1							C	11
12 2	12 2	12 2	11 0	9 2								12
C	C	C	C	C					2 4			13
12 2	11 8	12 2	12 0	11 8	9 6	8 6			4 0			14
12.0	12 1	11 2	10 0	9 1								15
12.0	8 0	8 8	G	6 4	4 2							16
12 0	11 0	9 6	9 6	8 6	U5 6s							17
8 4	G	12 0	11 8	10 6	8 2			8.4				18
11 0	10 4	11 4	9 6	8 0	S				6 0			19
12 6	12 8	12 8	11 4	9 0	S							20
12 4	11 6	12 2	10 4	U9 3s	U7.0s				1 9			21
12 0	12 2	10 5	9 0	8 6	6 6				6 0			22
12 0	12 0	11 4	9 4	8 4	6.8					5 0		23
12 0	11 4	9 8	9 5	8 9	S				U6 0s	U7 0s	4.0	24
12 0	12 0	12 0	11 0	8 0	S					C		25
12 2	12 0	11 4	10 4	9 0								26
C	12 0	12 0	9 6	8 6	U7.0s							27
12 0	12 0	12 1	9 6	8 8	S							28
12 4	11 4	12 2	11 0	8 6	7 0							29
12 2	12.0	12 0	10 0	8 6				3 3	U4 6s			30
27	28	29	28	29	13	1	.	2	9	5	2	Count
12 1	12 0	12 0	10 0	8 8	7 0		.	.	4 0	5 0		Median
12 0	11 7	11 5	10 0	8 8	7 1	.			4 0	4 7	.	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic fbEs
 Unit : Mc
 Month April 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 3		4 2	1 5	4 6
2								3 1	3 8	4 1		5 0
3		2 0							3 8	4 3	1 6	4.8
4								3 1	3 8	4 2	1 4	C
5								3 1	3 8	1 2	1 4	4 7
6								3 2	3 7	4 2	C	C
7									3 7	4 3	1 4	4 5
8		1 9							3 6	4 2	1 4	4 5
9	2 5			2 1	2 2		2 7	3 0	3 7	1 2	1 5	4 6
10								3 2	3 8	1 2	4 6	4 6
11	C	C	C						3 7	1 1	4 4	4 7
12					C			2 9	3 6	4 2	4 3	4 6
13								3 0	C	C	C	C
14								3 0	3 5	4 0	4 2	4 4
15									3 7	4 1	4 3	4 4
16									3 6	4 0	4 2	
17									4 0	4 2		1 4
18								3.2	3 8	4 2		
19									3 6	4 2		
20								3 0	3 6	1 0	4 4	4.6
21				C	C				3 6	4.1	4 3	4 5
22								3 1	3 7	4 1	4 2	4.4
23								3 0	3 6	4 0	4 2	4.4
24							C	C	C	C	C	C
25								3 2	3 7	4 2	4.5	4.7
26								3 2	3 8	4 3	4 4	4.6
27								3 2	C	4 2	4.4	4.6
28							2 6	3 2	3 8	4 2	4 5	
29								3 3	3 8	4 2	4 4	4 6
30				3 0				3 2	3 8	4 4	4 4	4.6
Count	1	2		2	1		2	20	25	28	24	22
Median								3 2	3 7	4 2	4 4	4 6
Mean								3 1	3 7	4 2	4 4	4 6

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds.

Characteristic . fbEs
Unit : Mc
Month April 1958

TABLE 38—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							2.9		4.2	4.5	4.6	4.6
2								3.5	4.1			4.9
3								3.6	4.1		4.8	4.9
4								3.5	3.8	4.4	C	C
5								3.4	4.0	4.4	4.6	4.7
6									4.0	4.3	C	C
7	2.2							3.4	4.0	4.3	4.6	4.6
8	1.7	2.0	2.0					3.4	4.0	4.3	4.6	4.7
9				2.4	2.5			3.4	4.0	4.3	4.6	4.6
10								3.7	4.0	4.4	4.6	4.6
11	C	C	C					3.3	4.0	4.3	4.6	4.6
12								3.3	4.0	4.2	4.4	4.5
13								3.2	C	C	C	C
14								3.3	3.8	4.1	4.4	4.5
15								3.3	3.8	4.2	4.4	4.5
16									4.0	4.0	4.4	4.6
17									4.0	4.0	4.3	4.4
18								3.6	4.1	4.3		
19								3.1	3.9	4.4	4.6	4.9
20								3.5	4.0	4.2	4.5	4.6
21							2.8					
22				2.2			3.0	3.4	4.0	4.2	4.4	4.5
23								3.4	4.0	4.2	4.4	4.4
24								C	3.9	4.2	4.4	4.4
25				2.4			2.8	C	C	C	C	C
26								3.4	4.0	4.4	4.5	4.7
27								3.4	4.0	4.4	4.6	4.6
28							2.8	3.6	C	4.4	4.7	4.8
29							2.8	3.6	4.0	4.4	4.4	4.8
30				2.9	1.7			3.6	4.2	4.2	4.4	4.6
									4.2	4.4	4.6	4.6
Count	2	1	2	4	1		7	24	26	26	23	25
Median							2.8	3.4	4.0	4.3	4.6	4.6
Mean							2.8	3.4	4.0	4.3	4.5	4.6

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic · fbEs
 Unit Mc
 Month April 1958

TABLE 38—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 6	4 6	4 2	4 0	3 6	2 6							1
4 8	4 5	4 3	4 0	3 5								2
4 7	C	4 2	3 9	3 2								3
4 7	4 6	4 2	4 0	3 3	2 6							4
4 8	4 6	4 3	4 0	3 3								5
C	4 8	4 4	4 0	3 4					2 3			6
4 9	4 4	4 3		3 4	2 6							7
4 5	4 4	4 2	3 8	3 4	2 4				2 0	2 2	2.8	8
4 6		4 2	3 9	3 4	2 4					2 1		9
4 7	4 4	4 2	3.8	3 4	C	C	C	C	C	C	C	10
4 6	4 4	4 2	3 8	3 5							C	11
4 4	4 3	4 1	3 8	3 3								12
C	C	C	C	C					2 1			13
4 4	4 2	4 1	3 7	3 2					2 1			14
4 6	4 2	4 0	3 7	3 1								15
4 4	4.2	4 0			3 1							16
4 3	4 3	4 2	3 8	3.2								17
		4 2	4 4	4 8	3 8			2 1				18
4 6	4 6	4 2	3 9	3 2					2.0			19
4 6	4.4	4 2	3.8	3 3	2.4							20
4 5	4 4	4 0	3 8	3 2	2 3				1 5			21
4 4	4 4	4 0	3 7	3 2	2 4				2 2	2.8		22
4 4	4 3	4 0	3 7	3 2	2.4					2 2		23
C	4 6	4 4	4 0	4 9	4 0				2 4	3 0	2.1	24
4 6	4 4	4 1	4 0	3 3						C		25
4 8	4 4	4 3	3 8	3 6								26
C	4 4	4 2	4 0	3 4								27
4 7	4 4	4 2	4 0	3 4								28
4 6	4 5	4 3	3 8	3 2	2 5							29
4 5	4 4	4 4	4 0	3 6				2 3	2.0			30
25	26	29	27	28	13	.		2	9	5	2	Count
4 6	4 4	4 2	3 9	3 4	2 5				2 1	2 2		Median
4 6	4 4	4 2	3 9	3 4	2 7				2 1	2 5		Mean

Sweep 1 0 Mc. to 25 0 Mc in 27 seconds

Characteristic fmin
Unit Mc
Month April 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	2.2	2.4	2.4	1.9	2.0	2.2	2.4	2.7	3.0	3.8	4.0	3.6
2	2.0	2.0	2.0	1.8	1.7	2.0	2.2	2.1	2.8	3.3	5.6	4.0
3	1.8	1.5	1.9	1.5	2.0	2.0	2.1	2.4	3.0	3.4	3.5	3.8
4	2.0	1.8	1.8	1.8	1.6	1.6	2.2	2.3	2.6	3.0	3.1	C
5	1.7	1.8	1.7	1.5	1.7	1.7	2.3	2.3	2.8	3.1	3.3	3.3
6	2.1	2.1	2.0	1.9	1.6	1.7	2.2	2.4	2.5	3.0	C	C
7	2.1	2.0	2.1	2.1	2.0	1.7	2.2	2.5	2.8	3.0	3.1	3.4
8	1.8	1.8	1.9	2.2	2.3	2.0	2.1	2.4	2.4	3.1	3.0	3.1
9	1.8	2.2	2.2	1.6	1.4	2.6	1.6	2.5	2.8	3.3	3.6	3.6
10	2.0	1.8	1.9	1.8	1.7	2.0	2.2	2.4	2.8	3.0	3.4	3.2
11	C	C	C	1.6	1.6	1.7	2.1	2.3	2.6	3.0	3.1	3.4
12	1.6	1.7	1.6	1.7	C	2.0	U2 2.0	2.2	2.8	3.3	3.1	3.2
13	1.8	1.8	1.6	1.8	1.9	2.0	2.3	2.2	C	C	C	C
14	2.0	1.6	1.7	1.6	1.8	1.9	2.3	2.3	2.4	3.0	3.0	3.1
15	2.1	1.9	2.2	2.1	1.7	2.1	2.2	2.1	2.6	3.0	3.1	3.1
16	1.8	1.5	1.7	1.5	1.5	1.7	2.1	2.1	2.6	3.0	3.0	4.8
17	1.6	1.7	1.4	1.5	1.5	2.0	2.2	2.2	2.6	2.8	3.0	3.2
18	2.1	2.4	2.5	2.4	2.2	2.4	2.5	2.7	3.0	3.4	4.6	5.0
19	2.2	2.0	2.3	2.2	2.4	1.9	2.4	2.0	2.1	3.0	4.6	4.8
20	2.0	1.6	1.7	1.6	1.7	1.7	2.3	1.9	2.4	2.8	3.1	3.0
21	C	C	U1 5.0	1.7	C	1.8	2.4	2.4	2.4	2.8	3.0	3.1
22	1.9	1.7	1.8	1.6	1.8	1.6	1.8	1.9	2.3	2.8	2.8	3.1
23	2.1	1.6	1.6	1.5	1.6	1.8	2.2	2.2	2.6	2.8	3.0	3.0
24	2.2	2.5	1.9	2.0	1.6	1.8	C	C	C	C	C	C
25	2.0	1.9	1.8	1.6	2.4	2.0	2.3	2.0	2.8	3.0	3.2	3.7
26	1.8	1.5	1.7	1.5	1.6	1.8	2.1	2.4	2.8	3.2	3.1	3.1
27	1.7	1.4	1.3	1.6	1.9	1.8	1.7	2.2	C	3.0	3.2	3.6
28	1.7	1.8	1.6	1.5	1.5	1.7	1.7	2.2	2.5	3.0	3.2	5.0
29	2.4	1.9	2.0	1.7	1.7	1.9	2.0	2.1	2.6	3.0	3.0	3.2
30	1.8	1.5	1.5	1.5	1.7	1.7	2.3	2.0	2.4	3.5	3.0	3.4
Count	28	28	29	30	28	30	29	29	27	28	27	26
Median	2.0	1.8	1.8	1.6	1.7	1.8	2.2	2.2	2.6	3.0	3.1	3.4
Mean	1.9	1.8	1.8	1.7	1.8	1.9	2.1	2.3	2.6	3.1	3.4	3.6

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic fmin
Unit Mc
Month April 1958

TABLE 39
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	3.8	3.5	2.8	4.6	2.4	1.9	1.4	1.7	1.5	1.6	1.9	1
3.9	3.4	3.5	2.8	2.8	2.4	2.0	2.0	1.8	1.8	1.9	2.0	2
3.8	C	3.1	3.0	2.6	2.1	2.0	1.7	1.5	2.0	2.2	2.1	3
C	3.2	3.2	2.8	2.7	2.3	2.1	1.6	1.9	1.8	1.9	1.8	4
3.5	1.9	3.0	2.7	2.6	2.3	1.9	1.6	1.7	1.6	2.4	2.2	5
C	5.0	3.1	3.2	2.9	2.1	2.0	1.1	2.0	1.8	2.3	2.0	6
3.8	3.8	3.1	3.1	1.1	2.2	2.0	1.7	2.1	1.8	1.1	1.7	7
3.2	3.3	3.6	2.7	2.5	2.0	2.0	1.2	1.7	1.8	1.6	1.6	8
3.8	3.4	3.2	2.6	2.6	2.1	1.8	1.2	1.7	2.0	1.8	1.6	9
3.6	3.1	3.0	2.7	2.1	2.2	C	C	C	C	C	C	10
3.2	3.2	3.2	2.7	2.7	2.0	1.6	1.2	1.6	1.8	1.6	C	11
3.1	U3 1.5	3.0	U2 6.5	2.4	2.1	1.9	1.1	2.1	1.8	2.3	1.7	12
C	C	C	C	C	2.6	2.0	1.8	1.7	1.9	2.2	1.7	13
3.2	3.1	2.8	2.6	2.6	2.1	1.9	U1 7.5	1.6	U2 2.5	1.5	U2 2.5	14
3.3	3.2	3.0	2.7	1.4	2.2	2.0	1.7	1.9	1.8	1.5	1.6	15
3.4	1.2	3.0	2.6	1.6	2.2	1.7	1.7	1.6	2.0	1.6	1.9	16
3.2	3.2	3.0	2.0	1.6	2.2	1.8	1.5	1.6	1.7	2.2	2.1	17
1.8	1.8	3.2	2.8	2.5	2.1	2.0	1.6	1.7	2.0	2.2	2.2	18
4.6	3.6	3.0	2.7	2.1	2.6	2.2	2.0	1.7	1.8	2.0	2.1	19
3.3	3.2	3.0	2.6	2.6	2.2	2.0	1.2	1.7	1.7	2.0	C	20
3.3	U3 3.0	2.8	2.5	2.3	1.9	1.7	1.5	1.7	1.4	1.5	1.8	21
3.1	3.0	2.9	2.5	2.1	2.0	1.9	1.5	1.6	1.7	1.8	2.1	22
3.0	3.0	3.0	2.6	2.4	1.9	1.9	1.5	1.8	2.1	2.1	2.3	23
C	3.2	3.2	2.2	2.5	2.2	2.1	1.6	1.9	1.4	1.8	1.6	24
3.5	3.0	3.1	2.9	2.6	2.2	1.9	1.6	2.0	1.9	1.5	C	25
3.4	3.1	3.2	3.0	4.0	2.0	2.0	1.5	1.8	2.0	1.8	1.6	26
3.6	5.0	3.3	3.0	2.4	2.4	1.9	1.5	1.8	1.9	1.4	1.7	27
3.1	3.4	3.1	3.0	1.8	2.4	2.2	1.1	2.0	1.7	1.7	2.0	28
3.6	3.3	3.2	2.9	2.6	2.6	2.0	1.5	1.5	1.6	1.7	1.5	29
3.6	3.2	3.0	3.2	2.8	3.0	2.3	1.8	1.7	1.7	2.1	2.2	30
26	28	29	29	29	30	29	29	29	29	29	26	Count
3.4	3.2	3.1	2.7	2.6	2.2	2.0	1.5	1.7	1.8	1.8	1.9	Median
3.5	3.5	3.1	2.7	2.7	2.2	2.0	1.5	1.8	1.8	1.8	1.9	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fmin
Unit Mc
Month April 1958

TABLE 39—*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	2.2	2.0	1.7	2.0	2.0	2.1	2.4	2.6	2.4	3.8	3.6	3.6
2	1.8	2.0	2.0	1.6	1.8	2.0	2.3	2.5	2.9	4.9	5.2	3.8
3	2.0	2.1	1.9	1.9	1.7	1.9	2.1	2.7	3.4	5.1	3.7	4.0
4	1.9	2.0	2.0	1.8	1.6	1.8	2.2	2.6	3.0	3.1	C	C
5	1.8	1.6	1.8	1.8	1.7	1.8	2.6	2.4	3.2	3.1	3.4	3.5
6	1.8	2.0	1.8	1.8	1.6	2.1	2.6	2.6	2.8	3.0	C	C
7	1.8	2.2	2.1	2.1	1.9	1.7	2.2	2.5	3.0	3.1	3.1	3.1
8	1.3	1.5	1.8	2.3	2.2	1.9	2.2	2.3	3.4	3.1	3.2	3.1
9	2.1	2.5	2.0	1.6	2.0	2.2	2.6	2.6	3.0	3.2	3.8	3.7
10	1.6	1.6	1.7	1.9	1.9	1.9	2.2	2.4	3.0	3.2	3.2	3.4
11	C	C	C	1.8	1.8	1.8	1.9	2.4	2.9	2.9	3.5	3.2
12	1.7	1.8	1.8	2.0	1.9	2.0	2.3	2.4	2.9	3.0	3.0	3.3
13	1.8	1.6	1.6	1.7	2.1	2.1	2.1	2.5	C	C	C	C
14	1.5	1.5	1.6	1.8	2.1	2.2	2.3	2.4	2.7	3.1	3.0	3.2
15	1.9	2.0	2.1	1.8	1.8	2.2	2.3	2.3	2.9	3.0	3.3	3.4
16	1.5	1.7	1.6	1.5	1.6	2.1	2.1	2.1	2.8	2.8	3.2	3.6
17	1.5	1.7	1.6	1.3	1.5	1.8	2.0	2.4	2.8	2.8	3.1	3.2
18	2.4	2.4	3.0	2.3	2.2	2.7	2.8	3.0	3.2	3.4	4.6	5.0
19	2.2	2.2	2.4	1.8	2.4	2.2	2.5	1.9	3.1	3.4	4.0	4.4
20	1.8	1.6	1.8	1.7	1.7	1.7	1.8	2.2	2.6	3.0	3.2	3.2
21	C	1.8	1.6	1.7	C	1.8	2.2	2.6	2.6	2.8	3.0	3.2
22	1.7	1.6	1.7	1.9	1.8	1.8	2.1	2.1	2.5	2.6	3.0	3.0
23	1.8	1.7	1.7	1.5	1.8	2.0	2.0	2.2	2.6	2.5	3.0	3.1
24	2.2	1.7	1.8	1.8	1.7	C	C	C	C	C	C	C
25	2.0	2.2	1.4	2.0	2.2	2.0	2.1	2.1	3.0	3.0	3.2	3.8
26	1.8	1.5	1.4	1.5	1.7	2.0	2.0	2.5	3.0	3.2	3.3	3.2
27	1.6	1.6	1.7	1.6	1.7	2.0	2.0	2.2	C	3.0	3.4	3.8
28	1.4	1.3	1.5	1.4	1.6	2.1	2.0	2.4	3.0	2.9	5.2	3.8
29	2.0	1.8	1.8	2.2	1.7	2.2	1.9	2.2	2.9	3.0	3.2	3.6
30	1.5	1.5	1.5	1.5	1.8	1.8	2.3	2.2	2.8	2.8	3.6	3.4
Count	28	29	29	30	29	29	29	29	27	28	26	26
Median	1.8	1.7	1.8	1.8	1.8	2.0	2.2	2.4	2.9	3.0	3.3	3.4
Mean	1.8	1.8	1.8	1.8	1.8	2.0	2.2	2.4	2.9	3.2	3.5	3.5

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : fmin
 Unit . Mc
 Month : April 1958

TABLE 39—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
3.7	3.8	3.0	3.1	3.2	2.1	1.5	1.7	1.9	1.6	1.7	1.8	1
3.6	3.4	3.2	3.0	2.9	2.3	1.2	2.2	2.0	1.8	1.7	1.9	2
3.8	C	3.0	3.0	2.4	2.4	1.6	1.4	1.9	2.1	1.7	1.6	3
3.6	3.3	3.0	2.8	2.5	2.4	1.4	1.8	1.8	2.1	1.6	1.7	4
4.0	3.9	3.0	3.0	2.4	2.5	1.6	1.6	1.8	2.1	2.2	2.0	5
C	4.8	3.2	4.0	2.4	2.6	1.7	2.0	1.8	2.2	2.0	1.9	6
4.7	3.4	3.0	6.2	2.7	2.6	1.5	2.1	2.0	1.9	1.7	1.6	7
3.1	3.0	2.9	2.9	2.1	2.0	2.2	1.4	2.0	1.4	1.5	1.9	8
3.8	4.8	3.0	2.8	2.2	2.0	1.5	C	C	1.8	1.8	2.2	9
3.7	3.1	2.8	2.7	2.2	C	C	C	C	C	C	C	10
3.8	3.3	3.0	U2 7s	2.5	1.8	1.4	1.7	1.7	1.6	1.8	C	11
3.3	U2 9s	U2 7s	U2 7s	2.3	2.2	1.5	1.9	1.9	2.1	2.0	1.7	12
C	C	C	C	C	U2 4s	U1 5s	1.9	1.8	1.6	1.7	1.9	13
3.3	3.0	2.8	2.6	2.4	2.4	1.5	1.5	1.8	1.6	2.0	1.9	14
3.3	3.0	2.9	2.6	2.2	2.4	1.5	1.9	1.8	1.7	1.5	1.8	15
3.3	3.0	3.0	2.8	2.2	2.2	1.5	1.7	1.7	2.0	2.0	1.6	16
3.2	3.0	3.2	3.0	2.2	2.4	1.4	1.6	2.0	1.7	2.0	2.2	17
4.8	4.6	2.8	2.8	2.3	1.8	1.7	1.6	1.6	2.2	2.2	2.1	18
3.6	3.8	2.8	2.8	2.3	2.4	1.5	1.5	2.0	1.6	C	1.8	19
3.2	3.2	2.8	3.0	2.4	2.0	1.5	C	C	C	C	C	20
3.2	3.1	2.7	2.6	2.2	1.7	1.5	1.6	1.2	1.1	2.0	1.9	21
3.0	3.0	2.7	2.6	2.2	2.4	1.7	1.7	1.8	1.3	1.7	2.3	22
3.2	2.9	2.8	2.5	2.2	2.1	1.5	1.8	1.9	2.0	1.8	2.5	23
3.3	3.0	2.7	2.5	2.5	2.4	1.6	U1 8s	1.9	1.4	2.2	1.5	24
3.5	3.1	2.9	2.8	2.4	2.5	1.5	1.9	1.6	1.9	C	1.5	25
3.4	3.2	3.0	2.8	2.4	2.4	1.4	1.7	1.8	1.8	1.8	1.3	26
C	3.4	2.8	3.0	2.6	2.6	1.7	2.0	2.0	2.0	1.5	1.5	27
3.2	3.0	3.0	3.0	2.6	2.6	1.7	1.6	1.6	1.9	2.0	1.8	28
3.8	3.2	3.0	2.9	2.4	2.5	1.6	1.5	1.5	2.0	2.2	1.6	29
3.4	3.2	3.6	3.0	2.6	2.7	2.2	1.7	1.7	1.8	2.4	2.1	30
27	28	29	29	29	29	29	28	27	28	26	27	Count
3.4	3.2	3.0	2.8	2.4	2.4	1.5	1.7	1.8	1.8	1.8	1.8	Median
3.5	3.4	2.9	3.0	2.4	2.3	1.6	1.7	1.8	1.8	1.9	1.8	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic · h'F2
 Unit Km
 Month April 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 _H	L _H	L _H
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L _H	L	L	L
5												
6								L	L	L	C	C
7								L	L	L _H	L	L
8								L	L	L _H	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 _H
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 _H
30								L	L	L	L	L
Count									
Median							
Mean								

Sweep 1 0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2
 Unit Km
 Month April 1958

TABLE 40
 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	C	L	L	L	L							3
C	L	L	L	L								4
L	L	L	L	L								5
C	L	L	L	L	L ^H							6
L	L	L	L	L	L							7
L	L	L	L	L								8
L	L	L	L	L	L							9
L	L	L	L	L								10
L	L	L	L	L	L							11
L	C	L	L	L	L							12
C	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 ^H	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
C	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
												Count
..												Median
..												Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2
 Unit : Km
 Month April 1958

TABLE 40—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	Lh	Lh
2								L	L	L	L	L
3								L	L	L	C	C
4								L	L	L	L	L
5								L	L	L	L	L
6								L	Lh	Lh	C	C
7							L	L	Lh	L	L	L
8							L	L	Lh	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	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	Lh
21								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	L
27							L	L	L	L	L	L
28							L	L	L	L	L	L
29								L	L	Lh	Lh	Lh
30								L	L	Lh	Lh	Lh
31								L	L	Lh	Lh	Lh
Count							
Median							
Mean						

Sweep 1 0 Mc. to 25 0 Mc in 27 seconds

Characteristic : h'F2
 Unit · Km
 Month · April 1958

TABLE 40—*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 _H								1
L	L	L	L	L								2
L	C	L	L	L								3
L _H	L	L	L	L								4
L	L	L	L	L _H								5
C	L	L	L	L								6
L	L	L	L _H	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
C	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 _H	L _H	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
C	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L _H	L	L	L _H								30
.	.											Count
			.									Median
.	..		.	.								Mean

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds

Characteristic h'F
Unit · Km
Month · April 1958

TABLE 41
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	280	300	320	300	265	245	270	255	240	240	230	225
2	240	250	260	290	290	270	270	250	240	230	B	220
3	260	280	280	245	240	240	280	250	235	225	230	220
4	270	275	250F	U240F	240	225	270	250	245	225	230	C
5	280	290	270	265	240	240	285	260	245	240	225	220
6	295	280	280	275	235	220	250	250	220	230	C	C
7	310	315	305	295	245	230	270	250	240	230	220	220
8	270	270	280	260	220	220	260	240	235	230	215	210
9	280	255	240	235	255	260	270	250	235	225	220	220H
10	280	260	270	260	260	240	265	250	240	230	225	220
11	C	C	C	240	230	230	260	245	230	220	215	220
12	U250F	255	245	245	C	220	260	245	240	235	230	220
13	U290F	U285F	270	245	235	220	255	245	C	C	C	C
14	U270F	300	260	250	235	215	260	245	240	225	220	210
15	255	240	260	260	260	220	250	245	230	230	220H	215H
16	260	240	240	225	220	210	255	240	230	220	220	B
17	240	240	240	235	220	220	255	240	235	220H	220	220
18	290	290	320	270	220	240	275	250	240	230	225	220
19	260	255	255	240	250	235	265	255	240	220	220	220
20	240	230	220	250	235	225	280	250	235	230	220	210
21	260	U255G	240	225	240	240	265	245	220H	225	210H	205H
22	275	280	265	240	210	240	275	245	230	210H	210	205H
23	280	260	240	220	220	220	270	245	230	220	215	205H
24	300	300	285	240	215	230	C	C	C	C	C	C
25	300	300	300	255	240	230	275	250	235	225	220	210H
26	300	320	265	235	215	210	260	240	220	220	220	220
27	320	280	310	340	240	210	265	240	C	220	220	220
28	340	300	300	280	260	240	270	240	240	230	220	U220B
29	280	290	325	285	240	240	280	250	235	220	215	200F
30	250	260	250	265	260	275	275	245	230	225	220	220
Count	29	29	29	30	29	30	29	29	27	28	26	25
Median	280	280	265	250	240	230	270	245	235	225	220	215
Mean	275	275	270	255	240	230	265	245	235	225	220	215

Sweep 1·0 Mc to 25·0 Mc in 27 seconds.

Characteristic h'F
Unit . Km
Month April 1958

TABLE 4I
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
215	225H	225	240	260	270	320	U480F	F	U410F	U320F	U280F	1
220	220H	225	235	255	270H	315	420	415	355	280	250	2
220	C	230	235	240	260	320	440	500	F	290	295	3
C	215	220	235	240	265	320	455	500	405	U330F	290	4
220	220	225	235	240	265H	315	U460FH	U460F	U430F	U415F	U340F	5
C	220	215	235	245	260	315	460	F	380	360	300	6
215	220	225	235	B	270H	325H	F	F	F	U290F	U285F	7
205	215	230	230	240	260H	315	U480F	F	U430F	U270F	275F	8
220H	205H	220H	240H	240	260	300	445	F	F	305	280	9
205H	210	215H	220	240	260	C	C	C	C	C	C	10
210	210	215	225H	245	270	300H	F	F	U400F	U270F	C	11
215	210H	210	220	240	265	315	U465F	F	F	U400F	U290F	12
C	C	C	C	C	260	305	F	F	F	F	F	13
205	210	215	225H	240	255	310	U450F	U450F	U365F	300	U270F	14
215	215H	215H	220	245	260	315	U445F	F	F	U355F	305	15
215	210	220	230	240	260	300	400	360	300	260	240	16
205	215	220	230	240	260	300	400	340	300	320	305	17
220	220	230	A	U260A	275	300	405	365F	300	260	260	18
220	220	220	230	240	260	300	425	U415F	360	280	245	19
210	210	220	225	240	260H	300	420	400F	360	320	C	20
210	220	220	230	235	260	305	420	440	420	345	285	21
200H	210	205H	225	240	260	305	440	U425F	U305F	F	320	22
210	205	215	210	240	260	310	430	F	U400F	310	300	23
C	215	220	U240A	A	265	315H	FH	F	F	340	320	24
210H	215	220	225	240	265	310	470	F	F	F	C	25
220	215	210H	220	U240B	260	320	U460F	U500F	F	U380F	300	26
200H	U220B	220	220	240	260	310	U480F	U480F	410	360	340	27
220	210	220	225	240	260	320	445	U500F	360	300	290	28
210	225	230	230	245	270	315	440F	440F	395	320	275	29
220	220	220	230	245	260	310	420	420	375	310	285	30
26	28	29	28	27	30	29	25	17	20	26	25	Count
215	215	220	230	240	260	310	445	440	380	315	290	Median
215	215	220	230	245	265	310	440	435	375	320	290	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : h'F
Unit : Km
Month : April 1958

TABLE 41—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	290	300	310	285	255	250	260	245	240	230	225	220
2	240	255	280	280	295	250	260	240	235	B	B	220
3	275	280	260	235	240	250	260	240	235	B	220	220
4	280	U265F	260	240	230	230	265	245	240	230	C	C
5	285	280	260	260	235	260	265	250	240	230	225	225
6	280	280	280	255	225	220	250	240	230	225	C	C
7	325	300	U300F	265	230	250	260	245	235	225	215H	215
8	265	275	270	240	220	230	250	240	235	225	220	210
9	275	240	240	240	260	255	260	240	230	225	220	210H
10	265	295	260	260	255	235	260	240	220	230	220	210H
11	C	C	C	230	225	240	260	240	225	220	225	215
12	250	260	250	240	230	225	255	240	235	230	220	215
13	U280F	U280F	260	230	220	225	260	240	C	C	C	C
14	U280F	260	250	240	220	220	250	240	230	220	210	215
15	245	250	255	270	240	225	255	230	225	230	220H	225
16	240	255	240	225	215	225	240	230	225	220	220	200
17	240	240	240	230	220	230	245	240	235	220	220	215
18	290	310	300	240	220	265	260	240	235	225	215	B
19	255	260	250	245	255	240	265	240	230	220	215	220
20	235	220	240	255	230	235	260	240	220	220	215	210
21	C	250	225	235	240	245	260	235	205H	215H	205H	210
22	280	265	250	230	220	275	250	240	225	210H	210	195H
23	270	260	230	220	210	250	255	235	225	220	205H	210
24	300	290	260	225	225	C	C	C	C	C	C	C
25	300	310	280	250	230	245	260	240	225	220	220	215
26	300	310	240	220	210	235	245	240	220	220	220	220
27	300	300	310	310	220	235	250	240	C	220	220	210
28	320H	280	290	280	250	240	260	240	235H	220	B	220
29	285	310	320	265	235	280	260	240	230	220	215	210
30	250	260	260	245	260	280	260	240	220	220	220	220
Count	28	29	29	30	30	29	29	29	27	26	24	25
Median	280	275	260	240	230	240	260	240	230	220	220	215
Mean	275	275	265	250	235	245	255	240	230	225	220	215

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic h'F
 Unit Km
 Month April 1958

TABLE 41—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
210	225	240	240	260	290	400	F	F	U330F	U320F	260	1
220	220H	230	245	260	290	375H	440	395	310	275	250	2
215	C	230	235	250	280	380	500	500	400	280	270	3
215	215	220	240	255	280	395	500	465	390	U290F	280	4
225	230	235	240	250	285H	395	U460F	U440F	U440F	U355F	305	5
C	215	240	240	255	285	385	500F	405	360	320	305	6
220H	220	230	B	260	290H	400H	F	F	U360F	U280F	280	7
210	215	225	240	250H	290H	390H	U560F	F	F	U280F	275	8
215H	U230BH	225H	240	250	280	375	460	F	U330F	320	300	9
220	215H	220	225	245	C	C	C	C	C	C	C	10
215	215	220H	235	260	290	365H	F	F	U305F	U290F	C	11
205H	215	220	240	250	280	380	F	F	U380F	U300F	280	12
C	C	C	C	C	280	370	F	F	U325F	F	F	13
210	215	220H	240	245	270	370	U490F	U405F	310	290	270	14
220	220H	220H	240	255	280	380	U515F	F	U360F	U345F	280	15
210	210	220	240	240	260	340	400	320	280	240	240	16
210	215	220	235	245	280	340	U400F	340	305	320	300	17
225	220	235	260	260	280	335	395F	330	280	260	255	18
205H	220	220	240	250	275	360	430	400	330	C	240	19
210	210	225	230	250	280	360	C	C	340	300	260	20
205H	215	220	225	250	280	365	430	445	375	320	280	21
210	200H	220	220H	245	280H	380	F	U350F	F	340	285	22
200H	205	205H	215H	250	280	365	U480F	U440F	340	300	300	23
210	220	220	A	270	290	370H	FFH	F	U325F	350	310	24
210	220	220	240	250	280	380	F	U440F	F	C	300	25
220	210	200H	230	240	280	380	F	U480F	U410F	F	300	26
C	215	225	235	240	280	390H	F	F	420	340	350	27
210	210	225	235	240	280	390	U500F	U440F	320	300	280	28
205	220	225	240	260	290	380	460F	400	350	300	260	29
220	210H	230	230	250	290	375	440	390	320	300	280	30
27	28	29	27	29	29	29	18	18	26	25	27	Count
210	215	220	240	250	280	380	460	405	335	300	280	Median
215	215	225	235	250	280	375	465	410	345	305	280	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic h'E
Unit Km
Month April 1958

TABLE 42
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								125	120	B	B	A
2								115	A	A	B	B
3								115	A	A	A	A
4								A	105	A	A	C
5								A	A	A	100	A
6								115	A	A	C	C
7								115 ^H	A	A	A	A
8								120	105	A	A	A
9								120	A	A	A	A
10								105	A	A	B	A
11								110	A	A	A	A
12								110	A	A	A	A
13								115	C	C	C	C
14								115	A	A	A	A
15								120	A	A	A	A
16								115	110	A	A	B
17								120	110	A	A	110
18								120	115	110	B	B
19								120	A	A	B	B
20								110	110	110	A	A
21								120	A	A	A	A
22							130	105	A	A	A	A
23								110	A	A	A	A
24							C	C	C	C	C	C
25								110	110	A	A	A
26							140	110	110	110	A	A
27							120	115	C	110	A	A
28							A	A	A	A	A	B
29							130	110	110	110	A	110
30								110	110	A	A	A
Count							4	26	11	5	1	2
Median								115	110	110		
Mean								115	110	110		

Sweep 10 Mc to 250 Mc in 27 seconds.

Characteristic h'F
 Unit Km
 Month April 1958

TABLE 42
 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	115	A	B	A							1
A	A	A	105	A	A							2
A	C	A	105	A	110							3
C	A	A	110	A	A							4
105	B	105	105	110	A							5
C	B	A	A	110	115							6
A	B	A	110	B	A							7
A	A	B	A	110	A							8
A	A	A	A	A	110							9
A	A	A	A	A	120							10
A	A	A	A	115	A							11
A	A	A	A	A	A							12
C	C	C	C	C	C							13
A	A	A	A	A	A							14
A	A	A	A	110	115							15
A	110	110	110	110	A							16
110	A	A	A	110	A							17
B	B	A	110	A	A							18
B	A	A	110	110	A							19
110	A	A	A	110	110							20
A	A	A	A	105	110							21
A	A	A	A	110	115							22
A	A	A	A	105	110							23
C	A	105	A	A	A							24
A	A	A	A	110	110							25
A	A	A	A	B	A							26
A	B	A	A	110	115							27
A	A	A	A	110	115							28
A	110	115	110	110	A							29
A	110	A	110	110	A							30
3	3	5	10	17	12							Count
		110	110	110	110							Median
.		110	110	110	115							Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'E
Unit Km
Month April 1958

TABLE 42—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								120	110	B	A	A
2							130	A	A	B	B	A
3							120	A	A	B	A	B
4							125	A	A	A	C	C
5								A	A	105	A	A
6								105	A	A	C	C
7							120	110	110	110	A	A
8							120H	110	A	A	105	A
9								A	A	A	A	A
10							120	105	A	A	A	A
11							115	110	A	A	C	A
12							120H	110	A	A	A	A
13							120	115	C	C	C	C
14							120	A	A	A	A	A
15							135	115	A	A	A	A
16							120	110	A	A	A	A
17							120	115	A	A	A	110
18								115	110	110	B	B
19								A	A	A	B	B
20							115	110	110	A	A	A
21							120	110	105	A	A	A
22							120	105	A	A	A	A
23							120	110	A	A	A	A
24							C	C	C	C	C	C
25							120	110	115	A	A	B
26							120	110	110	A	A	A
27							120	105	C	A	A	A
28							A	A	A	A	B	B
29							120	110	110	110	A	110
30							120	110	110	110	A	A
Count							22	21	9	5	1	2
Median							120	110	110	110		
Mean							120	110	110	110		

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'E
Unit Km
Month April 1958

TABLE 42—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	110	A	105								1
A	A	A	105	120								2
A	C	A	105	110								3
A	A	A	A	A								4
B	B	105	A	A								5
C	B	A	B	105								6
B	A	A	B	110								7
A	A	A	110									8
A	B	A	105	110	120							9
A	A	A	105	105	C							10
B	A	A	110	115								11
A	A	A	A	A								12
C	C	C	C	C								13
A	A	A	A	UI15A								14
A	A	A	110	115								15
A	110	110	110	110								16
A	A	A	110	105								17
B	B	110	110	A								18
A	A	110	110	110								19
A	A	A	110	110								20
A	A	A	105	105	115							21
A	105	A	105	110								22
A	A	A	105	110	F							23
A	A	A	A	A								24
A	A	A	A	110								25
A	A	A	A	A								26
C	A	A	A	110								27
A	A	A	110	115								28
A	110	110	110	110								29
110	110	A	110	110								30
I	4	6	18	22	2							Count
.		110	110	110								Median
..		110	110	110								Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic . h'Es
Unit Km
Month April 1958

TABLE 43
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								135	G	100	100	100
3								100	100	100	100	100
4		105						G ₄	100	100	100	100
5								100	100	100	100	C
6								100	100	100	100	100
7								105	100	100	C	C
8								G	100	100	100	100
9	110	115						G	100	100	100	100
10				105	105		100	100	100	100	100	100
11	C	C	C					100	100	100	100	100
12					C			G	100	100	100	100
13								100	100	100	100	100
14								100	C	C	C	C
15								100	100	100	100	100
16								100	100	100	100	100
17								G	100	100	100	100
18								G	G	100	100	100
19								100	100	100	100	100
20								G	100	100	100	100
21								100	100	100	100	100
22				C	C		G	100	100	100	100	100
23								100	100	100	100	100
24								100	100	100	100	100
25							C	C	C	C	C	C
26								100	100	100	100	100
27							145	100	100	100	100	100
28							G	100	C	100	100	100
29							110	110	100	100	100	100
30				110			130	110	100	100	100	100
								110	100	100	100	100
Count	1	2		2	2		4	22	25	28	27	26
Median								100	100	100	100	100
Mean								105	100	100	100	100

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
Unit - Km
Month April 1958

TABLE 43
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
1	100	100	100	100	105	100							1
2	100	100	100	100	100	100							2
3	100	100	100	100	100	105							3
4	100	100	100	100	100	105							4
5	100	100	100	100	100	105							5
6	C	100	100	100	100	105				120	115	110	6
7	100	100	100	100	100	105				120	115	110	7
8	100	100	100	100	100	105							8
9	100	100	100	100	100	105							9
10	100	100	100	100	100	105							10
11	100	100	100	100	100	105							11
12	100	100	100	100	100	105							12
13	C	C	C	C	C	100							13
14	100	100	100	100	100	100							14
15	100	100	100	100	100	100							15
16	100	100	100	100	100	100							16
17	100	100	100	100	100	105				105	125		17
18	100	100	100	100	100	105				115	125		18
19	100	100	100	100	100	100							19
20	100	100	100	100	100	100							20
21	100	100	100	100	100	105	105						21
22	100	100	100	100	100	100	105			120	140	100	22
23	100	100	100	100	100	100	105			115	110	130	23
24	C	100	100	100	100	105				115	115	130	24
25	100	100	100	100	100	105							25
26	100	100	100	100	100	100							26
27	100	100	100	100	100	100							27
28	100	100	100	100	100	100							28
29	100	100	100	100	100	110							29
30	100	100	100	100	100	105				120	120		30

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

	26	28	29	29	29	29	1			6	18	3	Count
	100	100	100	100	100	100				120	120		Count
	100	100	100	100	100	100				120	120		Median
	100	100	100	100	100	100				120	120		Mean

Characteristic h'Es
Unit Km
Month April 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							130	G	100	100	100	100
2							G	100	100	100	100	100
3	105						G	100	100	100	100	100
4							G	100	100	100	G	G
5								100	100	100	100	100
6								G	100	100	G	G
7	110						G	100	100	100	100	100
8	110	110	110				G	100	100	100	100	100
9				105	105			100	100	100	100	100
10							G	100	100	100	100	100
11	G	G	G				G	100	100	100	100	100
12							G	100	100	100	100	100
13							G	100	G	G	G	G
14							G	100	100	100	100	100
15							G	100	100	100	100	100
16							G	G	100	100	100	100
17							G	G	100	100	100	100
18							100	100	100	100	100	100
19								100	100	100	100	100
20							105	100	100	100	100	100
21				100			140	100	100	100	100	100
22							140	100	100	100	100	100
23						115	G	100	100	100	100	100
24							G	G	G	G	G	G
25				100			105	100	100	100	100	100
26						G	100	100	100	100	100	100
27							110	100	G	100	100	100
28							110	100	100	100	100	100
29							120	100	G	100	100	100
30			110	110			G	G	100	100	100	100
Count	3	1	2	4	1	1	10	24	26	28	26	26
Median							110	100	100	100	100	100
Mean							115	100	100	100	100	100

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds.

Characteristic h'Es
Unit : Km
Month : April 1958

TABLE 43—*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	110							1
100	100	100	100	100	100							2
100	C	100	100	100	100							3
100	100	100	100	100	105							4
100	100	100	100	100	100							5
C	100	100	100	100					120			6
100	100	100	B	100	105							7
100	100	100	100	100	105				115	110	115	8
100	100	100	100	100	105					110		9
100	100	100	100	100	C	C	C	C	C	C	C	10
100	100	100	100	100							C	11
100	100	100	100	100								12
C	C	C	C	C					120			13
100	100	100	100	100					120			14
100	100	100	100	100								15
100	100	100	G	100	140							16
100	100	100	100	100	100							17
100	G	100	100	100	110			110				18
100	100	100	100	100	100				120			19
100	100	100	100	100	120							20
100	100	100	100	100	105				120			21
100	100	100	100	100	105				115	100		22
100	100	100	100	100	105					120		23
100	100	100	100	100	S				110	115	115	24
100	100	100	100	100	110							25
100	100	100	100	100								26
100	100	100	100	100	105							27
100	100	100	100	100	100							28
100	100	100	100	100	115							29
100	100	100	100	100				120	100			30
28	27	29	27	29	17		.	2	9	5	2	Count
100	100	100	100	100	105	..			120	110	..	Median
100	100	100	100	100	110	.			115	110	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic (M3000)F2
 Unit —
 Month April 1958

TABLE 44
 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 40F	U2 25F	U2 20F	U2 40F	U2 55F	2 70F	U2 75s	2 75	2 55	2 25	2 05	2.10
2	U2 65F	F	F	2 65	F	F	2 80	2 60	2 25	2 15	2 20	2.10
3	U2 55F	2 45	2 60	2 85	2 90	2 95	2 85	2 65	2 40	U2 15R	2 10	2.10
4	U2 40F	F	U2 80F	F	2 90F	2 95	2 80	2 60	2 20	2 20	2 20	C
5	2 50	2 45	2 55	2 65	2 80	2 95	2 70	2 60	2 30	U2 10R	2 10	2.10
6	F	F	F	F	2 85	3 05	3 00	2 90	2 65	2 30	C	C
7	F	F	F	F	U2 80F	2 95F	U2 80s	U2 90F	2 60	2 20	U2.00R	2 10
8	F	U2 75F	2 65F	F	3 05	3 20	2 90	3 00	2 70	2 40	2 05	2.00
9	F	U2 75F	2 90	2 90F	2 80F	U2 80F	U2 90F	U2 80F	U2.65F	U2 90R	U2 05R	2.15
10	F	F	F	F	F	2 90	U3 001	F	F	U2 20R	2 10	2.10
11	C	C	C	3 05	3 25	3 05	U2 85C	2 80	2 60	2 35	2 15	2.15
12	F	F	F	U2 90s	C	3 15	U2 95s	2 85	2 60	2 30	2.15	2.10
13	F	F	F	2 70	3 05	F	FS	U2 80F	C	C	C	C
14	F	F	F	U3 00F	FS	FS	FS	FS	U2.60s	2 25	2 20	2 25
15	U2 70s	2 80	2 90	U2 90s	U2 85s	3 05	2 95	U2 90s	2 45	2 25	2 25	2.20
16	F	U2 60F	2 90	U3 00s	3 10	J3 05s	U3 05s	2 95	U2 75R	2 45	2 05	2 30
17	3 00	U3 00s	3 00	U3 10s	3 10	3 20	3 10	U3 00s	2 90	U2 60R	2 30	2.05
18	2 55	2 55	R	U2 60R	2 85	3 00	2 85	U2 60R	U2 35R	U2.35R	U2 45R	2 10
19	2 90	2 70	2 80	2 90	2.90	U2 95s	2.95	2 80	2 55	2 50	R	2.20
20	2 80	2 90	U3 05s	2 95	3 00	3 05	2 90	2 80	2 45	2 20	2.35	2.20
21	2 90	2 75	2 85	3 05	2 95	2 80	2 85	2 70	2 35	2 20	2 15	2.10
22	2 50	2 50	U2 75F	U2 80F	3 10	2 80	U2 85s	2.80	2 50	2 15	2.05	2.10
23	U2 60F	2 65	U3 00s	3 10	3 10	3 15	2 90	2.70	2 35	2 10	2 10	2.10
24	F	F	F	U2 85s	2 95	3 00	C	C	C	C	C	C
25	F	2 40	2 40	J2 70F	2 85	2 90	2 80	2 45	2.30	2.20	2 10	2.00
26	F	F	U2 80F	U2 80s	3 25	J3 05s	3 00	2 70	2 40	2 20	2 20	2.10
27	F	U2 50F	F	F	U2 80F	U3 10F	2.90	2.65	C	2.20	2.10	2.05
28	F	U2 50F	F	2 75	F	U3 10F	U2 80F	U2 75F	2 40	2 15	2.10	2.10
29	2 60	2 50	2 35	2 55	2 90	U2 90s	2.70	2.55	2.35	2.30	2 15	2.00
30	2 70	2 50	2 70	U2 70s	2 70	2 80	2 95	2 80	2 50	2 15	2 20	2.05
Count	15	19	18	24	25	27	27	27	26	28	26	26
Median	2 60	2 55	2 80	U2 85	2 90	3 00	2 90	2 80	2.50	2.20	2.10	2.10
Mean	2 65	2 60	2 75	U2 85	2 95	3.00	2.90	2 75	2 50	2.25	2.15	2.10

Sweep 10 Mc. to 25.0 Mc in 27 seconds.

Characteristic (M3000)F2

TABLE 44

Latitude . 10.2° N

Unit —

Ionospheric Data

Longitude . 77 5° E

Month April 1958

75 0°L Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.00	2.00	2.05	2.05	2.05	2.00	U1 95W	U1 85F	U2 00F	F	F	F	1
2.00	2.05	2.05	2.05	2.05	2.00	2.00	1.90	U1.95F	U2 05S	2.20	2.45	2
2.00	C	2.05	2.00	2.05	2.05	2.00	U1.90W	F	F	F	F	3
C	2.00	2.00	2.00	2.00	2.00	1.95	U1 90W	2.00	U2 00F	F	U2 50R	4
2.05	2.00	2.05	2.10	2.05	2.05	2.00	1.90H	F	F	F	F	5
C	2.00	2.05	2.10	2.10	2.10	2.00	1.95	U1 90F	U2 05I	U2 15F	U2 40F	6
2.05	1.95	2.00	2.05	2.05	2.05	U2 00R	U1 85W	F	F	F	F	7
2.05	2.05	2.05	2.10	2.10	2.15	2.05	1.95	F	F	U2 40F	2.65	8
2.00	1.95	1.95	U2 00R	U2 05R	U2 05S	C	U2 00R	1.95F	F	2.40	2.55	9
2.05	2.05	2.00	C	2.10	U2 05S	C	C	C	C	C	C	10
1.4	2.05	2.10	2.15	2.15	2.20	2.05	U1 90F	F	F	F	C	11
2.05	2.10	2.05	2.10	U2 15S	U2 10S	2.00	U1 80W	F	F	F	U2 55F	12
C	C	C	C	C	2.20	2.10	F	F	F	F	F	13
2.15	2.10	U2 15S	J2 20S	2.20	2.20	2.20	2.00	U2 00F	F	U2 40F	2.45	14
2.15	2.10	2.10	2.15	2.20	2.15	2.05	U1.90S	F	F	F	F	15
2.10	2.20	2.30	2.25	2.25	2.25	2.20	2.15	U2 30R	U2 55R	2.80	2.90	16
2.20	2.10	2.15	2.15	2.20	U2 15R	U2 10R	U2.00S	U2 05S	2.25	2.40	U2 50R	17
U2 0R	U2 10R	U2.10R	2.10	2.20	2.15	2.10	2.05	U2 05F	2.35	R	2.80	18
2.00	2.05	2.05	2.15	2.25	2.25	2.20	U2 05S	2.10	U2 20S	2.40	2.60	19
2.15	2.10	2.05	2.15	2.10	2.05H	2.00	1.95	2.00	U2.15S	2.40	C	20
2.05	2.00	2.00	2.00	2.00	2.00	2.00	1.95	2.00	F	U2 15F	U2.40F	21
2.05	2.05	2.00	2.05	2.10	2.10	2.05	2.00	J1 90F	U2.00F	2.10	2.30	22
2.05	2.05	2.05	2.10	2.10	2.05	2.00	1.95	U1.95F	F	U2 40S	2.50	23
C	2.10	2.10	2.10	2.15	2.15	2.05	1.95	U2 00F	F	2.15	F	24
2.00	2.00	2.00	2.00	2.00	2.05	2.00	1.95	1.95	F	F	C	25
2.10	2.05	2.00	2.05	2.05	U2.00S	U1 95S	U1.95F	F	F	F	F	26
2.05	2.05	2.05	2.05	2.00	2.00	U2 00S	U1.95W	F	F	F	F	27
2.00	1.95	1.95	2.00	2.05	2.10	U2 00S	W	F	U2 00F	2.20	2.35	28
2.10	2.10	2.05	2.00	2.00	1.95	1.95	1.95	1.90	2.00	U2.30R	U2 40S	29
2.10	2.05	2.05	2.10	2.05	2.10	2.00	1.95	2.00	2.10	U2.35S	2.55	30
26	28	29	28	29	30	28	28	18	12	16	17	Count
2.05	2.05	2.05	2.10	2.10	2.10	2.00	1.95	U2 00	U2 10	2.40	2.50	Median
2.10	2.05	2.05	2.10	2.10	2.10	2.05	1.95	U2 00	U2 15	2.35	2.50	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic · (M3000)F2

TABLE 44—contd

Latitude 10 2° N

Unit : —

Ionospheric Data

Longitude · 77 5° E

Month April 1958

75 0°E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	U2 30F	U2 30F	U2 35F	U2 55F	U2 70F	2 80	2 80	2 60	2 40	2 15	2 10	2 10
2	2 65	F	U2 70F	2 70	F	F	2 75	2 15	2 10	2 15	2 15	2 05
3	2 50	2 50	2 70	2 90	2 90	2 90	2 80	2 55	2 25	2 10	2 10	2 10
4	2 65	2 80F	2 85	F	2 95	2 85	2 75	2 35	2 25	2 20	C	C
5	U2 50F	2 50F	2 60	2 70	2 90	2 85	2 70	2 15	2 10	2 10	2 10	2 10
6	F	F	U2 45F	2 75	2 95	3 05	2 95	2 80	2 50	2 05	C	C
7	F	F	F	F	U2 90F	2 85F	2 90	2 75F	2 45	2 05	2 05	2 10
8	F	U2 65F	2 70F	F	3 20	2 85	3 10	2 90	2 60	2 25	2 05	2 05
9	F	2 90	U2 90F	F	F	2 60F	U2 95F	U2 75F	2 50	2 10	2 20	2 10
10	F	F	F	F	F	2 95	F	F	U2 35F	2 10	2 15	2 05
11	C	C	C	3 10	3 25	U2 90S	2 85	2 75	2 50	2 25	2 10	C
12	F	2 85	F	U3 00S	3 10	U3 00S	U2 90S	2 75	2 15	2 15	2 20	2 20
13	F	F	U2 85F	2 90	F	F	F	U2 75F	C	C	C	C
14	F	U2 80F	U2 90F	F	U3 10F	1 S	F5	U2 65F	2 45	2 10	2 30	2 20
15	U2 85F	2 85	2 90	2 85	2 95	3 10	2 95	2 70	2 40	2 20	2 25	2 15
16	U2 70F	U2 70S	2 95	U3 05S	3 15	3 05	3 00	2 85	J2 60R	2 20	2 30	2 2
17	3 00	U3 00S	U3 00S	3 10	3 10	U2 95S	3 05	U3 00R	2 70	2 10	2 20	2 1
18	2 60	U2 55R	U2 55R	2 80	2 90	2 90	2 80	2 50	U2 45R	U2 50R	U2 25R	U2 30R
19	U2 85S	2 75	2 80	2 85	2 95	U3 00S	2 95	2 70	2 50	2 40	2 20	2 20
20	2 90	3 10	3 00	2 90	U3 05S	U2 95S	2 90	2 65	2 30	2 30	2 35	2 10
21	C	2 80	2 95	2 95	2 85	2 85	2 90	2 50	2 20	2 20	2 15	2 10
22	J2 55S	F	U2 90F	3 10	U3 00S	2 70	2 90	2 65	2 30	2 00	2 10	2 05
23	2 55	2 85	3 00	3 15	3 15	2 85	2 85	2 55	2 20	2 20	2 10	2 10
24	U2 45F	F	U2 80F	3 00	2 95	C	C	C	C	C	C	C
25	2 35	2 30	2 55	2 70	3 00	2 85	2 70	2 30	2 20	2 20	2 05	2 05
26	F	F	U2 85F	3 00	3 20	U3 06S	2 90	2 60	J2 30R	2 20	2 10	2 10
27	U2 40F	U2 55F	F	F	U3 00F	U2 90S	2 75	2 60	C	2 10	2 05	2 05
28	F	U2 60F	F	2 80	U3 00F	U2 95F	U2 80F	U2 60F	2 20	2 10	2 10	2 05
29	2 55	2 10	U2 40S	2 70	3 00	2 80	2 65	2 55	2 25	2 30	2 05	2 00
30	U2 45S	2 50	U2 75S	U2 80S	2 70	2 90	U2 80S	2 65	2 35	2 10	2 10	2 05
Count	18	21	24	23	26	26	26	28	27	28	26	25
Median	2 55	2 70	2 80	2 90	3 00	2 90	2 90	2 65	2 35	2 20	2 10	2 10
Mean	2 60	2 70	2 75	2 95	3 00	2 90	2 85	2 65	2 35	2 20	2 15	2 10

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : (M3000)F2

TABLE 44—contd

Latitude . 10°2' N

Unit : —

Ionospheric Data

Longitude : 77°5' E

Month April 1958

75 0°E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2 00	2 00	2 05	2 05	2 00	UI 955	UI 90W	UI 90F	F	U2 05F	F	F	1
2 00	2 05	2 05	2 05	2 00	2 00	UI 90W	1 90	U2 00S	U2 15F	2 30	U2 50S	2
2 00	C	2 05	2 00	2 05	2 00	UI 90W	F	F	F	F	F	3
2 10	2 00	2 00	2 00	2 00	2 10	UI 90W	UI 85W	F	U2 15F	F	2 45	4
2 00	2 00	2 05	2 10	2 05	2 00	1 95	UI 90RH	F	F	F	F	5
C	2 00	2 05	2 10	2 10	2 05	1 95	UI 95R	U2 00F	U2 10F	U2 25F	F	6
2 00	1 95	2 00	2 05	2 10	2 05	1 95	F	F	F	F	F	7
2 00	2 00	2 05	2 10	2 15	2 10	2 00	F	F	F	U2 55F	2 70	8
U2 00R	2 00	2 00	2 00	U2 05S	U2 10S	2 00	U2 05R	2 00F	U2 30S	2 40	F	9
2 05	2 00	C	2 05	U2 05S	C	C	C	C	C	C	C	10
2 05	2 05	2 10	2 20	2 20	2 15	U2 00S	F	F	F	F	C	11
2 10	2 05	2 10	2 15	2 15	U2 05S	UI 95S	F	F	U2 35F	F	U2 75F	12
C	C	C	C	C	2 15	2 00	F	F	F	F	F	13
2 10	2 15	2 15	2 15	2 25	2 15	2 15	F	U2 10I	FS	F	U2 60F	14
2 10	2 05	2 15	2 25	2 15	2 10	UI 95S	UI 85S	F	F	F	F	15
2 20	2 25	2 25	2 20	U2 25R	2 25	2 10	2 20	2 35	U2 70R	U3 00S	2 95	16
2 15	2 10	2 15	2 20	2 20	U2 15R	U2 05R	U2 00R	U2 20S	2 30	R	U2 50R	17
U2 15R	U2 15R	2 05	2 15	2 20	2 15	2 10	2 05	U2 20R	2 50	2 75	2 80	18
2 05	2 10	2 05	2 20	2 25	2 30	2 10	2 05	2 10	U2 30S	U2 50R	U2 75R	19
2 10	2 05	2 10	2 10	2 10	2 05	2 00	2 00	2 10	U2 35S	2 50	2 85	20
2 05	2 00	2 00	2 00	2 00	2 00	1 95	UI 95S	F	U2 10F	U2 20F	U2 45F	21
2 05	2 05	2 05	2 05	2 10	2 10	2 10	2 00	1 95	F	U2 05I	U2 10F	22
2 05	2 05	2 10	2 10	2 05	2 00	1 90	1 90	F	U2 05F	F	U2 65F	23
2 15	2 10	2 10	2 15	2 15	2 10	1 95	1 95	F	2 15	U2 25F	F	24
2 00	1 95	2 00	2 00	2 00	2 05	1 90	1 90	UI 95F	F	C	F	25
2 05	2 05	U2 00S	2 05	U2 05S	2 00	UI 90W	F	F	F	F	F	26
C	2 05	2 00	2 05	2 00	2 00	U2 00S	F	U2 00F	F	U2 10F	F	27
2 00	1 95	2 00	2 05	2 05	U2 05S	UI 95S	UI 90F	F	U2 20S	2 30	U2 50S	28
2 10	2 10	2 05	2 00	2 00	U2 00S	1 95	1 90	UI 95S	U2 05S	2 30	2 65	29
2 10	2 05	2 05	U2 10R	U2 05R	2 05	U2 00S	1 90	2 05	U2 05S	U2 50S	2 50	30
27	28	28	29	29	29	29	20	13	18	15	15	Count
2 05	2 05	2 05	2 10	2 05	2 05	1 95	1 90	2 05	2 20	2 30	2 65	Median
2 05	2 05	2 05	2 10	2 10	2 05	2 00	1 95	2 10	2 25	2 40	2 65	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic : foF2
 Unit . Mc
 Month . May 1958

TABLE 45
 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	11 1	10 8	9 8	9 9	9 7	8 7	10 6	12 6	14 2	14 7	13 8	12.7
2	F	U9 4S	10 1	11 1	10 6	U9.2S	U10 1S	12 2	13 6	13 7	12 0	11.6
3	U9 8S	U9 2F	10 6F	F	10 1	9 5	10 5	12 5	13 6	U12 9R	11 5	11.3
4	F	F	U9 4R	9 11	8 6	6 8	8 7	11 3	13 0	13 0	11 8	12.2
5	F	F	F	U8 7F	6 6	4 6R	8 7	11 4	12 8	13 2	12 5	12.4
6	F	F	F	F	U9 61	F	U9 5R	11 9R	13 2	13 8	C	C
7	F	U10 2F	F	F	F	U9 0F	10 7	12 8	13 5	13 1	11 8	10.8
8	U10 3F	10 6	10 0F	U9 2S	F	8 2R	10 7F	12 2F	13 3	13 9	12 9	11.8
9	U9 7F	10 8	11 2	9 3	7 1	6 6	9 7	12 0	12 8	13 8	13 0	13.6
10	U10 2F	10 3	10 6	11 0	F	U7 3F	9 3F	11 9	13 2	13 6	13 7	13.1
11	U11 6S	10 5	10 8	10 4	U9 3S	U7 3S	U9 8S	12 0	13 3	J11 0S	13 8	13.8
12	FS	FS	U11 01	F	U11 2R	8 0	9 1	11 3	11 3	11 2	11 8	C
13	FS	U8 71	FS	FS	9 6	6 9	9 3	U11 8S	12 8	U13 8R	12 8	11.6
14	FS	11 0	F	F	U11 5S	U10 6S	11 1	12 6	11 7	11 8	U13 0R	12.3
15	U9 5S	U9 4S	U9 3R	U9 6S	9 4	U10 2S	11 1	12 6	13 6	13 8	12 7H	11.1
16	10 7	U9 3S	U9 5S	9 3	8 5	6 0	U9 0S	11 2	12 1	J11 2R	12 8	11.9
17	U10 6R	F	F	F	J8 0S	10 4	12 0	12 8	12 5	11 8	11 2	11.2
18	F	U9 0F	U10 2R	F	U8 5F	7 6	9 7	12 1	13 2	J11 1R	J12 2R	11.8
19	F	F	F	F	F	U7 1F	9 8	11 8	12 6	12 8	11 8	11.2
20	U11 8S	10 8	10 8	10 2	8 7	7.6	U9 2S	11 3	12 4	C	11 6	11.7
21	10 7	U10 2S	10 6	10 8	9 0	5 3	8 0	10 8	12 2	12 3	12 4	11.8
22	F	F	F	F	U9 0F	8 1	10 0	11 6	12 7	12 6	11 3	10.8
23	10 3F	10 6	F	U9 6R	J8 0R	8 0	10 0	11 4	12 1	11 9	11 8	11.2
24	F	F	F	U10 1F	U8 8F	8 3	10 1	11 8	12 6	12 4H	11 8	10.8
25	F	F	F	F	7 5	6 4	9 0	11 2	12 0	C	C	C
26	F	8.8	8.4	8 1	7 4	6 8	9 0	11 1	12 2	12 8	12 7	11.6
27	9 0	F	8 3	9.3	9 5	9 4	10 6	U11 0RH	11 7	12 0	11 6	11.1
28	10 6	U9 9S	U9 6S	U9 4S	8 7	7 0	9.6	12 2	13 0	13 0	11 8	10.8
29	F	8 5	9 3	9 1	9 1	8 8	10 5	11 9	12 8	12 8	C	C
30	10 0	U9 3S	9 6	U7 1S	6 8	6 0	8 8	11 3	12 4	13 3	13.3	11.3
31	F	F	F	F	8 6	8 9	9 8	11 2	12 2	13 0	12.6	12.2
Count	15	20	19	19	26	30	31	31	31	29	28	27
Median	U10 3	U10 0	9 8	9 4	8 9	7 8	9 8	11 8	12 8	13 0	12 2	11 8
Mean	U10 4	U9 9	9 8	9 6	8 9	7 7	9.8	11 8	12 8	13 1	12 4	11.9

Sw ep 110 Mc to 25 0 Mc in 27 seconds

Characteristic foF2
Unit · Mc
Month · May 1958

TABLE 45
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
12.3	12.0	12.2	12.6	12.7	12.8	12.6	11.2	U9 6s	10.0F	U10 6s	F	1
11.3	11.4	11.7	12.2	12.8	C	12.4	U11 0R	F	10.5	U10 7F	10.3	2
U11 1R	11.2	11.8	12.6	13.0	13.0	12.7	11.1	F	F	F	F	3
C	12.0	12.1	12.7	13.2	13.4	12.9	11.2	C	F	F	F	4
10.6	10.5	10.8	11.3	11.4	11.6	11.5	C	F	F	F	F	5
10.5	10.4	10.5	10.8	11.2	11.5	11.2	9.8F	F	F	F	F	6
10.0	10.0	10.2	10.6	10.8	11.5	U11 7s	11.0	10.3	U10 5F	11.0	F	7
10.9	10.8	10.8	11.0	11.1	11.5	11.0	U9 7s	U8 5F	F	U9 6F	F	8
12.9	12.8	12.6	12.5	12.5	U12 0s	U11 5s	C	F	U8 6F	F	U10 2F	9
11.6	11.5	11.8	12.4	11.9	12.3	U11 8s	10.5F	U9 9s	10.2	11.2	12.8	10
12.6	11.5	11.4	U11 8s	12.4	12.6	J12 0s	10.8	F	F	U11 7s	12.5	11
11.7	12.0	11.9	11.8	11.7	U11 4s	U10 9s	U9.0F	U7 7F	F	U9 1s	U8 9F	12
12.6	12.5	12.6	12.8	12.6	12.5	12.4	U11 6s	U11 8s	12.6	J12 0s	J13 0s	13
12.4	12.2	12.4	U12 5s	12.8	12.8	12.5	U10 8R	9.1	9.2	FS	10.0	14
11.6	12.4	J12.1R	12.5	12.5	J13 0s	13.3	12.3	U11 5s	11.0	10.8	U11 2s	15
12.0	12.5	12.5	12.6	13.3	14.2	13.8	J12 2R	F	F	F	FS	16
12.4	12.2	12.0	11.8	U11 6s	11.4	U11 8s	11.4	10.6	U10 6F	F	F	17
12.0	11.4	11.5	11.6	11.8	U12 0s	12.8	U11 8s	F	10.4	F	F	18
11.6	11.8	11.8	11.7	U11 6s	U11 6s	12.4	11.6H	F	11.0	11.4	U12 0s	19
11.3	11.2	11.2	11.2	11.5	U11 6s	J12 0s	U11 6s	10.6	F	U10 8F	J11 1F	20
11.2	10.8	11.1	11.5	U11.6s	U11 8s	U11 8s	10.7	U9 0F	F	F	F	21
10.6	10.5	10.8	11.0	11.6	12.4	12.5	U11 5s	10.9	11.2	10.8F	10.7	22
11.2	11.0	11.1	10.9	C	U11 6s	J12 0s	11.2	F	F	F	F	23
10.8	10.8	J11 0R	11.1	11.3	U11 6s	U11.5s	10.5	U9 6F	U9 4F	U9 3F	U8.7F	24
C	C	C	11.8	11.8	12.2	J11 8s	C	F	F	10.3	F	25
10.8	10.8	10.6	10.8	11.6	J11 8s	U11 6s	11.0	10.3	U9 5s	U9 5F	F	26
10.8	10.8	11.3	S	11.9	12.0	U11 8s	F	10.6	10.6	10.4	10.5	27
9.8	9.9	10.0	10.8	U11.6s	11.5	11.2	10.6	U9 7s	F	F	F	28
C	C	C	C	U11 2R	11.8	11.5	11.3	11.3	11.4	10.8	10.6	29
10.8	10.5	10.4	10.8	11.4	U11.7s	U11.6s	F	F	F	F	F	30
11.8	11.8	12.0	12.3	13.0	13.4	13.0	11.4	F	11.1	11.6	12.0	31
28	29	29	29	30	30	31	26	17	17	18	15	Count
11.3	11.4	11.5	11.8	11.8	11.9	11.8	11.2	U10 3	10.5	U10 8	10.7	Median
11.4	11.4	11.5	11.7	12.0	12.2	12.0	11.0	U10.0	10.5	U10 6	11.0	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic foF2
 Unit · Mc
 Month May 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	11 0	10 2	9 8	9 7	09 15	9 0	12 0	13 6	14 6	14 2	13 0	12 5
2	09 6s	09 6s	10 9	11 0	10 1	8 6	11 3	13 1	13 8	13 0	11 6	11 4
3	9 3	09 0F	F	9 6	10 6	9 2	11 6	13 1	13 4	13 1	11 8	11 2
4	F	F	F	8 7	8 3	6 9	10 1	12 2	13 2	12 1	11 8	12 1
5	F	U10 8i	F	F	5 7i	6 5	10 3	12 2	13 2	12 8	11 8	10 8
6	F	F	F	U10 4i	F	08 8F	10 9F	12 6	13 7	13 4	C	10 5
7	10 3F	F	F	F	09 1F	9 5	11 8	12 9	13 9	13 2H	11 0	10 4
8	10 3F	10 5F	9 5	8 8F	8 7F	9 3F	11 5F	12 9	13 8	13 6	12 4	11 4
9	10 3	11 1	10 6	8 1	6 5	7 9	11 0	12 3	13 5	13 9	13 9	13 0
10	10 0F	10 3	10 8	U10 2F	08 0i	7 8F	10 7	12 7	13 3	13 8	13 4	12 1
11	10 7	10 4	10 8	9 8	8 6	08 0s	U11 1s	12 7	13 7	13 9	13 7	13.1
12	10 3	U10 4F	U11 7F	U11 0F	U10 6s	8 0	10 6	11 5	11 1	11 2	11 3	11 6
13	08 0s	09 0i5	1s	FS	8 2	7 1	10 8	12 2	13 1	12 6	12 5	12.6
14	11.4	F	F	F	U11 4s	11 0	U12 0s	13 6	U15 2s	11 2	13 6	12 6
15	09 3s	09 1s	FS	09 6s	09 7s	10 7	U11 8s	13 6	U14 0s	13 4	11 6	11 4
16	09 8s	09 4s	09 7s	9 1	J7 1s	17 2s	10 5	11 6	12 4	13 4	12 5	11 9
17	F	F	F	F	F	8 6	10 9	12 6	13 0	12 2	12 0	11 3
18	F	09 6i	U10 4i	F	8 2	8 2	11 2	12 8	U13 4R	U13 0R	12 0	12 0
19	F	F	F	F	F	8 2	11 0	12 2	12 8	12 4	11 4	11 2
20	11 2	10 4	10 6	9 5	7 8	8 2	U10 2s	12 1	12 6	C	11 5	11 6
21	10 6	U10 2F	11 0	U10 4R	7 2	6 0	9 5	U11 6s	12 4	12 4	12 0	11 6
22	F	F	F	F	F	9 0	10 7	12 0	12 7	12 2	11 0	10 8
23	10 4	U10 2F	09 9F	8 9	8 1	8 9	10 7	11 8	12 1	11 6	11 2	11 2
24	F	F	F	F	F	8 8	9 0	11 1	12 4	12.6	12 1	11.4
25	F	F	F	F	6 9	7 5	10 4	U11 8s	C	C	C	10.8
26	8 9	8 7	8 3	8 1	7 1	7 6	10 4	11 7	12 6	12 8	12 2	11 0
27	8 8	08.4F	8 8	9 4	9 1	10 2	10 5H	11 1	11 8	11 9	11 3	11 0
28	10 3	09 8s	09 4s	9 0	8 0	8 0	11 1	13 0	U13 0R	U13 0R	11 4	11 0
29	F	9 0	09 2F	9 3	8 9	9 3	11 3	12 3	U12 8R	U12 6R	C	10 4
30	09 5s	8 4	7 4	7 1	6 2	7 1	10 5	12 0	13 1	13 7	12 9	C
31	08 3F	F	F	8 1	8 7	9 2	10.6	12 0	12 5	U13 0R	12 4	11 8
Count	21	21	17	21	27	31	31	31	30	29	28	29
Median	10 3	09 8	9 9	9 4	8 3	8 2	10 9	12 3	13 1	12 8	11.9	11 5
Mean	9.9	09 8	9 9	9 3	8 4	8 4	10 9	12 4	13 1	12 9	12 1	11.6

Sweep 1° 0 Mc to 25° 0 Mc, in 27 seconds.

Characteristic · foF2
Unit Mc
Month : May 1958

TABLE 45—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
11 9	12 2	12 4	12 5	12 8	12 8	12 0	10 4	9 8F	10 8F	U10 7F	9 8	1
11 2	11 5	12 0	12 6	13 0	C	V12 0S	10 0F	F	F	U10 7F	U10 2R	2
U11 2R	11 5	12 1	12 6	13 2	U12 7R	J12 0S	F	F	F	F	F	3
11 8	11 8	12 4	12 8	13 2	13 4	U12 2S	C	F	F	F	F	4
10 3	10 6	11 0	11 5	11 5	11 6	10 8	F	F	F	F	F	5
10 4	10 3	10 6	11 1	11 3	11 5	10 8	U9 2F	U9 2F	F	F	F	6
10 0	10 0	10 4	10 7	11 1	U11 8S	U11 5S	10 3V	10 4	10 8	U10 8F	10 8F	7
10 9	10 8	10 9	10 9	11 3	11 3	10 5	U9 0F	U8 4F	U9 3F	U9 4F	F	8
12 9	12 8	12 2	12 4	12 4	12 0S	U11 2S	F	F	F	F	U10 6F	9
11 4	11 7	12 3	12 3	12 4	12 2	11 4	U10 3F	9 9	10 8	12 2	12 7	10
11 8	11 2	11 6	12 1	12 5	12 4	U11 4S	F	F	F	J12 1S	FS	11
11 9	12 0	11 8	11 8	U11 6S	11 3	10 4	U8 3F	F	8 6	FS	FS	12
12 7	12 5	12 7	12 7	12 5	12 6	J12 0S	11 4	12 5	12 3	12 5	12 7	13
12 0	12 2	12 4	12 6	12 7	U12 6S	U11 8S	U9 6S	9 3	U9 5S	U9 9S	U9 8S	14
11 9	12 5	12 3	12 4	12 7	13 3	13 0	U11 7S	11 3	10 9	11 0	11.0	15
12 2	12 6	12 5	12 7	13 8	U13 8R	J13 2S	11 0	F	F	F	F	16
12 4	12 2	12 0	U11 6R	11 4	U11 7S	U11 6S	10 9	F	F	F	F	17
11 7	11 4	11 6	11 5	U12 0S	12 6	12 7	U11.0F	F	U10 4F	F	F	18
11 6	11 8	11.7	11 8	U11 6S	U11 8S	12 5	U11 3F	F	11 1	11 6	12 2	19
11 1	11 3	J11 2R	11 4	11 4	U11 8S	J11 8S	11 0	U10 2F	F	F	10.9	20
10 8	11 0	11 1	11 6	U11 8S	U12 0S	11 4	S	U8 6F	F	F	F	21
10 6	10 8	C	11 4	12 0	12 7	12 2	J11 0R	11 0	11.1	F	10.3F	22
11 0	11.0	11.0	10 8	11.4	U11 8S	U11 7S	10.8	F	F	F	F	23
10 8	11 0	11 0	11 1	11 5	J11 8S	11 0	J10 0F	U9.5S	U9 2F	F	F	24
C	C	11 7	11 6	12 3	U11 8S	C	F	F	10.2	F	9 2	25
19 8	10 8	10 6	11 2	11 6	U11 6S	11 4	10 5	9.8	9 8F	F	9 6	26
10 8	11 0	11 4	11 8	12 0	U11 8S	11.1	U10 6A	10.5	10.5	10 4	10 6	27
0 8	10 0	10 4	11 3	U11 6S	11 4	11.1	FS	F	F	F	U8 7F	28
C	C	C	10 6	11 6	11 9	11 3	11 4	11 6	11 0	10 8	10 4	29
10 5	10 6	10 8	11 0	11 6	11 8	11 1	F	F	F	F	F	30
11 6	11 9	12 0	U12 8R	13.2	13 3	12 2	10 6	10 6	11 4	U11 8S	10 1	31
29	29	29	31	31	30	30	22	16	17	13	17	Count
11 2	11 4	11 7	11 6	12 0	11 8	11 6	U10.6	10 0	10 8	10 8	10.4	Median
11 3	11 4	11 6	11 8	12 1	12 2	11 6	U10 5	10.2	10.5	11.1	10 6	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds.

Characteristic foF1
 Unit : Mc
 Month : May 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	L	L
2								L	L	L	L	L
3								A	L	L	L	L
4									L	L	L	L
5								I.	L	L	L	L
6												
7									L	L	C	C
8									L	L	L	L
9								L	L	L	L	L
10								L	L	E	L	L
11								L	L	L	L	L
12								L	L	L	L ^H	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 ^H
17								L	L ^H	L	L ^H	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	C	L	L
21								L	L	L	L	L ^H
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	C	L	L
26								L	L	L	L	L
27								L	L	L	L ^H	L ^H
28								L	L	L	L ^H	L ^H
29								L	L	L	C	L ^H
30								L	L	L	L ^H	L ^H
31								L	L	L	L	L
Count	.											
Median	.											
Mean	.											

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds

Characteristic . foF1
 Unit Mc
 Month May 1958

TABLE 46
 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
C	L	L	A	L	L							4
L	E	L	E	L								5
L	L	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								10
L	L _{II}	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L _H	L _H	L							13
L	L	L _{II}	L	L	L _{II}							14
L	L	L _{II}	L	L	L _{II}							15
L _{II}	L	L	L	L _{II}	L							16
L	L	L	L	L	L							17
L	L	L _{II}	L	L	L							18
L	L	L	L	L	L							19
L	L _{II}	L	L	L	L							20
L _{II}	L _H	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
C	C	C	L	L	L							25
L	L	L	L	L	L							26
L _H	L	L	A	L								27
L _H	L _H	L	L	L								28
C	L	L	L	L								29
L _{II}	L	L	L	L								30
L	L	L	A	L								31
	..			..	.							Count
..	.		..	..	.							Median
		.		.								Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic · foF1
 Unit · Mc
 Month : May 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	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	C	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								L	L	L	L	L
12								L	L	L _H	L _H	L
13							L	L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16							L	L	L	L	L	L _H
17							L	L _H	L	L	L _H	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	C	L	L
21								L	L	L	L	L _H
22							L	L	L	L	L	L
23							L	L	L	L	L	L
24							L	L	L	L	L	L
25							L	L	C	C	C	C
26							L	L	L	L	L	L
27							L	L	L	L _H	L	L _H
28								L	L	L	L _H	L _H
29								L	L	L _H	C	C
30								L	L	L	L _H	L _H
31								L	L	L	L	L _H
Count												
Median												
Mean												

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds.

Characteristic : foF1
 Unit : Mc
 Month : May 1958

TABLE 46—*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	L								3
L	L	A	L	L								4
L	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
LH	LH	L	L	L								11
L	L	LH	L	L								12
L	L	L	LH	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	LH	LH	L	L								18
L	LH	L	L	L								19
L	LH	L	L	L								20
LH	L	L	L	LH								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
C	C	L	L	L								25
L	L	L	L	L	L							26
L	L	L	A	L								27
LH	LH	L	L	L								28
C	C	C	L	L								29
LH	L	L	L	L								30
L	L	L	L	L								31
..	..		.	.								Count
..	.		.	.								Median
.		.	..									Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic foE
Unit Mc
Month May 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 0	A	A	A	A
2								3 5	A	A	A	A
3								3 1	A	A	A	A
4								3 2	A	B	A	A
5							2 3	3 3	A	A	A	A
6								3 0	A	A	C	C
7								3 2	A	A	A	A
8							2 3	R	A	A	A	B
9								3 1	A	A	A	A
10												
11							U2 3R	A	A	A	A	A
12							U2 2R	A	A	A	A	C
13								A	A	A	A	A
14								3 0	U3 5R	A	A	A
15							U2 3R	U2 9R	A	A	A	A
16								U2 9A	A	A	A	A
17							2 4H	A	A	A	A	A
18								A	A	B	A	A
19								A	A	A	B	A
20								A	A	C	A	A
21							2 1H	3 0	A	A	A	A
22							2 1H	A	3 5	A	A	A
23							2.2	A	A	A	A	A
24							2 3H	3 0	A	A	A	A
25							U2 4F	A	A	C	C	A
26							2 3H	3.2	3 5	3.8	A	A
27								A	A	A	A	A
28								3 3	A	A	A	A
29								3.1	A	A	C	A
30							R	3.2	3 5	B	A	C
31								3 1	A	A	A	B
Count							12	18	4	1	.	..
Median							2 3	3.1			.	..
Mean							2 3	3 1				..

Sweep 1 0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic foE
 Unit Mc
 Month May 1958

TABLE 47
 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	4 0	A	A							3
C	A	A	A	A	A							4
A	A	A	A	A	A							5
												6
A	A	A	A	A								7
A	A	A	A	A	A							8
A	A	A	A	A	A							9
A	A	A	A	A	A							10
												11
A	A	A	A	A	A							12
A	A	A	A	A	A							13
A	A	A	A	A	A							14
A	A	A	A	A	A							15
												16
A	A	A	A	A	A							17
A	A	A	A	A	A							18
A	A	A	A	A	U3 3R							19
A	A	A	A	A	A							20
												21
A	A	A	A	A	A							22
A	A	A	U3 5A	3 3	2 7							23
A	A	A	A	A	A							24
C	C	C	A	3.6	A							25
												26
A	A	A	A	A	A							27
B	A	A	A	A	A							28
A	A	A	A	A	A							29
C	C	C	A	3 4	A							30
A	A	A	A	A	2.9							31
			2	4	2							Count
												Median
												Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foE
 Unit Mc
 Month May 1958

TABLE 47—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							2.8	A	A	A	A	A
2							3.0	A	A	A	A	A
3							2.8	A	A	A	A	A
4							2.8	A	B	A	A	A
5							2.9	A	A	B	A	A
6							2.9	3.4	A	A	C	A
7							A	A	A	A	A	A
8							2.8	3.4	A	A	A	A
9							2.8	3.4	A	A	A	A
10							2.7	A	A	A	A	A
11							U2 8AH	A	A	A	A	A
12							A	A	A	A	A	A
13							2.7H	A	A	A	A	A
14							U2 5R	U3 3R	A	A	A	A
15							U2 8R	3 2H	A	A	A	A
16							2.5II	A	A	A	A	A
17							2.8II	A	A	A	A	A
18							U2 6R	U3 2R	A	A	A	A
19							2.6	A	A	A	A	A
20							A	A	A	C	A	A
21							2.6	A	A	A	A	A
22							2.9H	3.2	A	A	A	A
23							A	A	A	A	A	A
24							2.6	A	A	A	A	A
25							A	A	C	C	C	C
26							2.8	3.5	A	A	A	A
27							A	A	A	A	A	A
28							2.8	A	A	A	A	A
29							2.8	A	A	A	C	C
30							2.8	3.4	A	A	A	A
31							2.7	A	A	A	A	A
Count							25	9		.	.	.
Median							2.8	3.4		.	.	.
Mean							2.8	3.3		.	.	..

Sweep 10 Mc to 250 Mc, in 27 seconds.

Characteristic : foEs
 Unit: Mc
 Month May 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
A	A	A	A	A								1
A	A	A	B	A								2
A	A	A	3.7	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	A	2.9								10
A	A	A	A	A								11
A	A	A	A	A	A							12
A	A	A	A	A	U2 3R							13
A	A	A	A	A								14
A	A	A	A	A								15
A	A	A	A	A	A							16
A	A	A	A	A								17
A	A	A	A	2.9								18
A	A	A	A	A								19
A	A	A	A	A								20
A	A	A	A	A								21
A	A	C	3.5	3.1								22
A	A	A	A	A								23
A	A	A	A	A	A							24
C	C	A	3.8	3.2	S							25
A	A	A	A	A	A							26
A	A	A	A	A								27
A	A	A	A	A								28
C	C	C	B	3.2								29
A	A	A	A	A								30
A	A	A	U3 7A	A								31
			4	5	2							Count
				3.1								Median
				3.1								Mean

Sweep 10 Mc. to 250 Mc. in 27 seconds

Characteristic : foEs
 Unit : Mc
 Month : May 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								G	11 6	12 6	12 2	13 2
2							8 0	3 8	11 8	12 4	12 4	12 6
3							7 0	8 0	11 4	12 0	12 0	12 0
4								5 0	11 0	11 6	12 4	12 0
5	6 0	5 0 3 6					G	G	11 4	12 0	12 8	12 6
6							4 0	7 6	12 0	11 0	C	C
7							5 2	8 0	8 6	11 0	12 0	12 0
8							G	G	10 2	11 4	12 0	12 1
9								G	8 4	10 6	12 0	12 2
10								G	11 0	9 4	12 2	12 2
11							G	u7 05	9 0	10 2	12 0	11 2
12							G	u9 68	11 1	12 0	12 2	C
13	u6 8s		5 4					8 6	9 8	11 0	11.8	12 0
14							G	G	G	11 1	11 6	10 6
15							G	G	8 6	10 2	11 9	12 2
16	S	u4 3s					G	7 8	10 1	10 4	11 7	12 2
17	5 6							6 6	11 0	10 6	11 0	11 0
18							3 1	7 0	7 6	8 6	11 0	10 6
19								7 4	9 6	10 4	11 0	11.5
20								9 4	9 4	C	11.2	12 0
21							4 0	G	8 5	11 2	11.2	12 2
22					3.5		2 5	3 4	6 8	10 0	11 0	11 8
23							G	7 6	8 8	10 0	10 0	10.6
24	2 7						2 5	6 5	9 4	9 6	10.4	10 8
25							G	8 4	10 0	C	C	C
26		2 6					G	6 4	4 0	8 6	11 0	12.0
27	7 0					C	5 2	8 0	8 6	10 0	11.0	11 0
28								G	9 2	11 0	11 6	11 2
29	3 1							G	9 0	10 4	C	C
30							G	G	G	G	10.6	11 4
31	6 6	3 2	6 8	6 0				4 1	8 6	9 6	11 0	11 0
Count	7	7	3	2			19	31	31	29	28	20
Median	6 0	3 6		.				6 4	9 4	10 6	11 6	12 0
Mean	5 4	3 9					4 6	7 0	9 5	10 7	11 5	11 7

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic foEs
 Unit Mc
 Month May 1958

TABLE 48
 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
12 6	12 0	12 2	12 0	10 2	8 6	8.4				7 6	2 6	1
12 4	12 0	12 0	10 8	8 0	C							2
12 0	11 5	11 0	9 0	5 8	8 0							3
C	12 0	10 5	23 0	16 0	8 6			C				4
13 0	12 2	12 6	12 4	10 8	8 0		C			2.2		5
12.2	12 0	12 6	11 6	9 0	7 0							6
12 2	12 0	12 0	11 4	9 0	8 0				2 6	3 8		7
12 2	11 8	12 0	11 4	10 4	8 6					6 6		8
12 4	12 0	12 0	12 0	9 8	8 0		C			2 8		9
12 0	12 6	12.0	12 0	8 6	8 0							10
12 1	12 1	12 0	11 8	u8 os	u7 6s					u4 3s		11
12 2	12 0	12 0	11 8	8 7	u8 os					4.1		12
11 6	11 3	10 6	10 6	u8 5s	u6 6s							13
12 2	12 0	10.9	11 6	u10 os	u8 os							14
12.0	11 6	11 8	11 0	8.4				2 2	8 1			15
12 0	11 1	11 5	8 8	8 8	u6 6s						4.7	16
11 4	11 0	11 6	11.0	8 0	7.0					7 0		17
11 2	11.4	11 0	10 6	G	6 7						2 3	18
12.0	11 0	11 4	10 6	8 6	6.8							19
12 0	12.0	12.0	11.0	9.0	8.0							20
12 0	11 8	12 0	10 7	9 6	u7.5s						2.6	21
11 6	11 6	10.6	9.6	G	G					2 7		22
11 2	10 8	10 6	8 6	C	7.3							23
11 3	11 4	12 0	10 8	9 0	7.0	2 7						24
C	C	C	10.6	G	7.8		C					25
11 4	11 4	11.6	9 0	10 2	13.5	u9 os			2.4			26
11 4	11 8	10 6	19 0	8 2	7 6	u5 os			4.0	5.0		27
11 4	11 4	11.2	11.0	10 2	6 6				u5 os	5 0		28
C	C	C	C	G								29
11.4	11 0	10 6	12.6	9 4	8 6	4 0				10 2	12 4	30
11 4	11 4	11 4	9 0	8.0	G							31
28	29	29	30	30	28	5	..	1	5	12	5	Count
12 0	11 8	11 6	11 0	8.8	7 7	5 0	..	.	4.0	4.6	2.6	Median
11 9	11.7	11 5	11.5	9 2	7 8	5.8	.	.	4 4	5 1	4.9	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs
 Unit . Mc
 Month . May 1958

TABLE 48—*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	9 6	12.2	12 4	13 0	12 4
2							7 8	9 8	12 0	13 2	12 6	12 2
3							8 0	9 0	11 6	12 0	12 0	12 0
4							G	9 2	11 2	12 6	12 0	12 2
5	6 8						G	10 0	11 8	12 0	12 5	12 6
6							8 0	G	11 4	12 2	C	12 2
7		8 0					10 8	8 4	11 0	12 0	12 0	12 0
8							G	8 2	11.0	12 0	12 4	12 0
9							G	G	10 0	11 6	12 0	12 6
10							G	9 0	11 0	11 4	12 0	12 0
11			UJ OS	3 2			3 7	8 3	9 6	11 6	11 8	12 0
12	S		4 0				8 2	10 4	11 3	12 1	12 4	11 9
13	3 4						G	9 0	10 6	11 5	11 6	11 8
14							G	G	11 0	8 6	11 8	11 7
15							5 1	G	10 1	12 0	12 5	11 8
16	3 6	2 9					G	10 8	10 2	11 6	11 8	12 3
17							G	8 2	10 6	12 0	12 0	12 0
18							3 3	G	8 0	11 0	11 0	11 0
19			3 0				G	8 2	9 4	11 0	11 4	11 8
20							11 6	8 3	10 4	C	12 0	12 0
21	4 4		2 5				G	7 6	9 7	11 2	12 0	11 8
22							G	G	8 4	11 6	11 8	11 4
23							7 0	9 2	9 4	10 8	10 7	11.0
24							8 2	8 6	10 2	11 0	11 2	10 4
25		2.4					6 5	8 8	C	C	C	C
26		2 3					G	G	8 0	10 8	11 2	11 0
27		3 6					6 0	8 0	10 0	11 0	11 0	11 2
28							G	7 8	10 4	11 2	11 4	11.4
29							G	8 6	10 4	11 0	C	C
30							G	G	8 0	8 4	11 2	11 2
31	3 6	7 0	7 0				5 4	10 0	9 2	10 6	11 0	11 0
Count	5	6	5	1			31	31	30	29	29	29
Median	3 6	3 2	4 0					8 3	10 4	11 6	11 9	11 9
Mean	4 4	4 4	4 1				7 1	8 9	10 3	11 4	11 8	11.8

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds,

Characteristic . foEs

TABLE 48—contd.

Latitude : 10 2° N

Unit : Mc

Ionospheric Data

Longitude : 77 5° E

Month : May 1958

75 0°E Mean Time

1230	1330	1430	1530	1630 ⁶	1730	1830	1930	2030	2130	2230	2330	Date
12 0	12 0	12 0	10 6	10 8	9 6				4 4	5 6	5 6	1
12 6	11 4	12 0	8 2		C							2
12.2	11 8	10 8	5 8	7 0								3
12 0	11.4	20 0	16 0	8 0	3 4		C					4
12 2	12 6	12 0	11 0	9 0								5
12 2	12 0	11 4	10 0	8 6	U7 0s							6
12 0	12 0	11 4	10 0	8 2					3 4	4 6		7
12.4	12 0	12 0	10 0	9 0					5 6	4 4		8
12.0	12 0	12 0	9 7	8.4								9
12.2	12 0	12.0	10 0	7 4								10
12.3	12 2	11 8	8 3	U7 6s								11
12.1	11.6	11 8	9 0	8 1	S				3.1			12
12.1	11 0	11 0	9 6	U8 0s	G							13
12.0	11 1	11 0	10 4	U9 0s								14
11.4	11 2	12 0	9.0					8 0			U4 6s	15
12.1	11 8	9 9	9 1	8 3	S							16
12.0	11 0	11 0	8 8	8 0	U6 0s			U4.1s		U3 8s	U11 6s	17
11.0	11.0	11.0	8 6	G								18
11.6	11 6	11 2	8 6	6 6								19
12 0	11 8	11 5	9.0	8 4	3.2						4 2	20
12.0	11.5	11 0	10 0	8 4								21
11.6	11 6	C	G	G						3 6		22
11.0	10 6	9 4	8 0	7 5	6 6				U2 7s		2.2	23
11.0	11 8	11 8	9 2	8 0	4.4							24
C	C	10 2	G	U6.4s	S							25
11.0	11.2	11 0	G	16.0	U11 5s	S			2.6	6.0	6 2	26
12.0	11 0	13 0	13.0	8 2	2 6	S			8.6			27
11.0	11 0	11 4	10 4	9.8					5.2	4 8		28
C	C	C	G	7 0								29
12.0	11 8	11 0	10 4	8 8	7 4				7.6	10.0	18.0	30
11.0	11 4	11.0	7 2	7 0	3 0							31
29	29	29	31	29	12	.		2	9	8	7	Count
12.0	11 6	11.4	9.1	8 1	5.2		..		4.4	4 7	5 6	Median
11.8	11 6	11 6	9 6	8 4	5.9		.		4.8	5 4	7 5	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic fbEs
Unit · Mc
Month May 1958

TABLE 49
Ionospheric Data
75°0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									3 9	4 1	4 4	4 6
2							2 5	3 5	3 8	4 2	4 4	4 8
3							3 0	4 6	3 8	4 2	4 5	5 0
4								3 3	3 8		4 6	4 8
5	2 2	2 0							3 8	4 2	4 6	4 6
6								3 4	3 8	4 6	C	C
7							4 5	3 4	3 8	4 3	4 6	4 6
8									3 7	4 3	4 4	5 1
9									3 7	4 1	4 3	4 5
10									3 9	4 3	4 4	4 6
11								3 1	3 6	4 0	4 3	4 5
12			1 8					3 0	3 5	4 0	4 3	C
13	1 9							3 1	3 7	3 9	4 2	4 4
14										4 0	4 2	4 2
15									3 6	3 9	4 2	4 3
16	2 1	1 9						3 1	3 6	4 0	4 1	4 3
17	3 8							3 1	3 6	4 0	4 3	4 6
18							3 0	3 0	3 6		4 4	4 4
19								3 0	3 6	4 0	4 4	4 4
20								3 4	3 6	C	4 2	4 4
21		1 8		2 0					3 6	4 0	4 2	4 4
22		1.8						3 0	3 6	4 0	4 2	4 4
23								3 1	3 6	4 0	4 2	4 5
24	2 0						2 3		3 6	4 0	4 4	4 7
25								3 1	3 7	C	C	C
26								3 2	3 8	4 2	4 4	4 6
27	2.6					C	2 6	3 6	3 8	4 1	4 4	4 6
28									3 8	4 2	4 4	4 5
29	2.4								3 8	4 0	C	C
30											4 3	4 4
31	2 0	1.9	2 2					3 2	3 7	4.0	4.3	
Count	8	5	2	1		.	6	19	29	26	27	26
Median	2 2	1 9					2 8	3 1	3 7	4 0	4 3	4 5
Mean	2 4	1 9				.	3 0	3 3	3 7	4 1	4 3	4 5

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds.

Characteristic fbEs
 Unit Mc
 Month · May 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
4.7	4.7	4.6	4.0	3.6	3.3	3.0				1.5	2.0	1
4.6	4.7	4.3	4.0	3.8	C							2
4.8	4.6	4.5	4.0	3.7	2.9							3
C	4.6	4.2	7.4	5.2	3.3			C				4
4.8	4.6	4.4	4.2	3.6	3.0		C					5
4.6	4.4	4.2	4.0	3.5	2.9							6
4.6	4.6	4.4	4.0	3.5	2.9				2.0	2.4		7
4.8	4.6	4.3	3.9	3.6	3.0							8
4.8	4.6	4.3	4.0	3.5	2.8					2.0		9
4.4	4.2	4.2	3.9	3.4	2.8							10
4.5	4.4	4.1	3.8	3.4	2.8					2.5		11
4.4	4.3	4.1	3.8	3.5	2.8					1.8		12
4.5	4.4	4.1	3.9	3.4	2.8							13
4.4	4.3	4.1	3.8	3.5	2.9							14
4.5	4.2	4.1	3.8	3.5				1.8	2.3			15
4.3	4.3	4.1	3.8	3.8	3.2							16
4.6	4.4	4.0	3.9	3.6	2.8					2.6	2.0	17
4.4	4.4	4.0	3.8		3.0							18
4.4	4.4	4.1	3.7	3.5	2.8							19
4.4	4.4	4.4	3.8	3.5	3.0							20
4.6	4.4	4.2	4.0	3.5	2.8							21
4.5	4.4	4.3	3.8							2.0	2.2	22
4.4	4.4	4.3	3.9	C	3.4							23
4.6	4.4	4.2	4.0	3.9	3.2	2.2						24
C	C	C	4.0	3.0	3.0		C					25
4.5	4.6	4.3	4.2	5.2	4.4	3.6						26
4.7	4.4	4.6	10.0	3.6	3.0	2.2			2.1	2.2		27
4.5	4.5	4.2	4.0	3.7	3.0				2.2	2.3		28
C	C	C	C									29
4.6	4.4	4.4	4.3	4.2	3.4					3.0	3.4	30
4.4	4.4	4.3	6.7	4.0								31
28	29	29	30	26	26	4		1	4	10	4	Count
4.5	4.4	4.2	4.0	3.6	3.0	.	.	.	.	2.2		Median
4.5	4.4	4.	4.4	3.7	3.0			.	..	2.2	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs
 Unit : Mc
 Month : May 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 5	4 0	4 2	4 6	4 6
2							3 2	3 6	4 0	4 5	4 4	4 5
3							4 6	4 8	4 0	4 3	4 6	4 8
4								3 5	4 2	4 7	4 5	4 7
5	2 2							3 5	4 0		4 6	4 7
6							3 0		4 0	4 4	C	4 6
7		3.7					3 0	3 7	4 0	4 3	4 6	4 6
8								3 4	4 0	4 3	4 5	5 0
9									3 9	4 2	4 4	4 6
10								3 6	4 0	4 1	4 1	4 4
11			2.0	1.9			2.8	3 3	3 9	4.1	4 4	4 4
12			1 8				2 7	3 3	3 8	4 2	4.5	4 4
13	2 0							3 4	3 8	4 1	4 5	4 4
14									3 8	4 1	4 3	4 3
15							2 9		3 7	4 0	4 2	4.3
16	2 2							3 5	3 8	4 1	4.2	4 4
17								3 4	4 0	4.2	4 4	4 4
18							3 2		4 0	4 2	4 4	4.4
19								3 4	3 7	4 2	4.4	4 4
20							4.6	3 4	3 8	C	4.3	4 4
21	2 2							3 4	3 9	4 2	4 3	4 5
22									3 9	4 1	4 4	4.5
23							2 8	3 4	3 8	4 2	4 3	4.5
24							3 0	3 6	3 9	4 2	4 3	4.7
25							2 8	3 4	C	C	C	C
26									4 0	4 2	4.5	4 7
27		2.0					3 0	3 6	4 0	4 2	4 6	4 5
28								3 4	4 0	4 2	4 4	4 5
29								3 4	4 0	4 2	C	C
30									4 0	4 4	4 4	4.7
31	2 1	3 4	2 3				3 1	3 6	3 9	4 1	4 4	4.5
Count	5	3	3	1			11	23	30	28	28	29
Median	2 2						3 0	3 1	4 0	4 2	4 4	4 5
Mean	2 1						3 2	3 5	3 9	4 2	4 4	4 5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic . fbEs
Unit Mc
Month May 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
4.6	4.6	4.1	4.0	3.5	3.0				3.0	2.0		1
4.6	4.5	4.0			C							2
4.6	4.5	4.3	4.4	3.3								3
4.6	4.4	10.2	5.2	4.4	3.1		C					4
4.7	4.5		4.4	3.4								5
4.6	4.4	4.2	3.8	3.2	2.5							6
4.6	4.5	4.2	3.8	3.2					2.8	2.8		7
4.6	4.5	4.3	3.7	3.4					2.0	2.2		8
4.6	4.4	4.1	3.7	3.1								9
4.4	4.2	4.1	3.8	3.1								10
4.4	4.3	4.0	3.7	3.1								11
4.5	4.2	4.0	3.7	3.2	2.5							12
4.5	4.2	4.0	3.6	3.1					2.0			13
4.5	4.2	4.0	3.6	3.1								14
4.4	4.1	3.9	3.6					2.7			2.1	15
4.3	4.2	4.0	3.8	3.6	2.7							16
4.4	4.2	4.2	3.8	3.2				1.9		2.1	2.7	17
4.4	4.2	4.0	3.8									18
4.4	4.4	4.0	3.4	3.2								19
U4.4C	4.3	4.0	3.8	3.4	2.7						1.8	20
4.6	4.5	4.0	3.8	3.4								21
4.4	4.4	C										22
4.4	4.2	4.0	3.8	3.6	2.8						2.0	23
4.4	4.4	4.0	3.8	3.4	3.2							24
4.5	C	4.1				C						25
4.6	4.6	5.4		4.8	4.5	2.2			2.0	2.6	2.2	26
4.7	4.4	5.4	7.7	3.3	2.4				2.5			27
4.6	4.4	4.0	4.4	3.4					2.3	2.4		28
C	C	C		3.3								29
4.9	4.4	4.4	4.4	3.6	3.0					3.4	3.6	30
4.4	4.3	4.0	4.6	3.2								31
29	29	28	26	26	11	1	..	2	7	7	6	Count
4.5	4.4	4.0	3.8	3.3	2.8	.			2.3	2.4	2.2	Median
4.5	4.4	1.4	4.1	3.4	2.9	.			2.4	2.5	2.4	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds,

Characteristic fmin
Unit . Mc
Month May 1958

TABLE 50
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	2.1	1.8	1.8	1.8	1.9	2.6	2.4	2.6	2.7	3.2	3.1
2	2.0	2.0	1.7	1.7	2.0	1.6	1.9	2.3	2.6	3.3	3.2	3.7
3	2.2	2.2	1.8	1.8	1.8	1.9	2.2	2.6	2.5	2.9	3.6	3.6
4	2.2	1.8	2.1	1.5	1.8	1.7	2.4	2.3	2.8	3.0	3.4	3.1
5	1.5	1.9	1.8	1.7	1.8	1.7	2.2	2.5	2.6	3.2	4.0	3.8
6	1.4	1.7	1.8	2.1	1.9	1.8	2.4	2.4	3.0	3.8	C	C
7	2.0	2.2	2.1	2.0	2.1	2.1	2.6	3.1	2.6	3.0	3.0	3.6
8	2.3	2.8	1.8	2.0	1.6	1.7	2.0	2.4	2.8	3.0	3.2	5.1
9	2.0	1.8	1.7	1.1	1.8	1.7	2.1	2.6	2.5	3.0	3.0	3.3
10	2.1	1.2	1.7	1.6	1.6	1.6	2.3	2.2	2.5	3.2	3.1	3.4
11	1.7	1.7	1.7	1.6	1.9	2.0	2.1	1.9	2.3	2.8	3.2	3.5
12	1.6	1.6	1.1	1.6	1.9	2.0	1.8	2.1	2.4	2.9	3.0	C
13	1.5	2.1	1.7	1.5	1.8	1.8	2.1	2.2	2.6	2.7	3.0	3.0
14	2.1	2.3	2.1	1.8	1.5	1.6	2.2	2.2	2.6	2.8	3.0	3.0
15	2.0	1.9	2.2	2.1	2.1	2.0	2.0	2.3	2.3	2.7	2.9	3.0
16	2.0	1.6	1.9	1.9	2.0	1.8	2.1	2.1	2.1	2.6	2.9	3.1
17	1.4	1.7	2.6	2.1	1.8	1.7	2.0	2.0	2.6	3.0	3.0	3.4
18	2.3	2.4	2.2	2.0	1.7	1.7	2.2	2.0	2.4	4.0	3.0	3.2
19	1.8	1.8	1.8	2.0	1.9	2.0	2.1	2.0	2.6	3.0	4.4	3.0
20	2.0	1.8	C	1.3	1.8	2.1	2.3	2.2	2.4	C	3.0	3.2
21	1.9	1.4	1.7	1.6	1.8	1.8	1.9	2.0	2.1	2.8	2.8	3.0
22	1.7	1.6	1.7	1.8	1.6	1.8	1.7	2.0	2.5	3.0	3.2	3.1
23	2.0	1.9	2.0	2.0	1.7	1.7	1.9	2.1	2.5	2.8	2.8	3.1
24	1.4	2.0	2.1	1.9	1.7	1.8	1.8	2.2	2.4	2.9	2.9	3.0
25	1.8	2.1	1.7	1.7	1.7	1.7	1.8	2.0	2.3	C	C	C
26	1.8	1.7	1.7	1.6	1.6	1.9	1.9	2.0	3.0		2.8	3.2
27	1.9	1.9	2.0	1.8	1.9	1.9	1.4	2.1	2.6	3.0	3.2	3.1
28	1.9	1.8	2.1	2.3	1.8	1.8	2.3	2.1	2.8	2.8	3.0	3.1
29	1.8	2.1	2.0	1.8	1.8	2.0	2.7	2.2	2.1	2.8	C	C
30	1.6	1.7	1.5	1.7	1.7	1.6	1.8	2.0	2.7	3.2	2.8	2.8
31	1.8	1.7	1.4	1.7	1.7	2.0	2.0	2.2	2.1	2.6	3.0	5.0
Count	31	31	30	31	31	31	31	31	31	29	28	2.8
Median	1.9	1.8	1.8	1.8	1.8	1.8	2.2	2.2	2.5	2.9	3.0	3.2
Mean	1.9	1.9	1.9	1.8	1.8	1.8	2.1	2.0	2.6	3.0	3.1	3.3

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic fmin
Unit : Mc
Month May 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 3	3 4	3 4	2 7	3 2	2 1	1 6	1 1	1 8	1 6	1 4	1 5	1
3 4	3 7	3 0	U3 4 ⁵	3 0	C	2 2	1 7	2 0	2 1	1 6	2 0	2
3 7	3 4	3 4	2 9	2 6	2 2	1 9	1 4	1 9	2 0	2 0	2 0	3
C	3 8	3 1	3 0	2.8	2 4	2 0	1 5	C	1 7	1 9	1 9	4
3 6	3 2	3 0	3 0	2 7	2 2	2 0	C	1 9	1 6	1 6	1 7	5
3 1	3 2	3 0	2 6	2 5	2 1	2 1	1 4	1 8	2 1	2 0	1 7	6
3 1	3 2	3 0	2 9	2 6	2 7	2 0	1 7	1 8	2 0	2 1	2 8	7
3 7	3 5	3 0	2 8	2 6	2 3	2 2	1 6	1.7	2 0	1 8	1 7	8
3 6	3 4	3 0	3 0	2 5	2 2	1 9	C	2 0	1 8	1 7	1 5	9
3 4	3 2	4 0	2 7	2 5	2 1	2 0	1 2	UI 5 ⁵	1 7	1 7	1.7	10
3 0	3 2	3 0	2 7	2 7	2 4	U2 0 ⁵	UI 6 ⁵	1 7	1 8	1 6	2 0	11
3 2	3 0	2 7	2 5	2 5	2 0	1 8	1 5	1 6	1 8	1 6	1 8	12
3 1	3 1	3 0	2 6	U2 4 ⁴	1 7	1 8	UI 6 ⁵	1 8	1 9	2 1	2 2	13
3 1	3 1	U2 8 ⁵	2 4	2 6	U2 4 ³	U2 3 ⁵	1 6	1 4	1 6	1 6	1 7	14
3 0	2 9	2 6	2 6	2 7	2 9	2 6	2 1	1 7	1 6	2 3	2 5	15
3 3	3 1	3 0	2 5	2 1	2 9	1 8	1 7	1 7	1 8	1.8	1 6	16
3 2	3 3	3 0	2 8	2 4	2 1	2 0	2 0	2.0	2 0	1.8	2 2	17
3 4	3 2	2 8	2 6	2 8	2 1	1 8	1 8	2 0	2 0	1 8	1 4	18
3 6	3 4	3 0	2 6	2 4	2 2	2 0	2 0	2.0	2.2	2 2	2 0	19
3 2	3 2	3 0	2 6	2 6	2 2	1 9	2 0	2 1	2 0	1.7	1 8	20
3 0	3 0	3 0	2.6	2.5	2.1	2.0	1 8	2 0	1 9	1 7	1 6	21
3 1	3 2	3 0	2 7	2 8	2 4	2 2	1.5	1 5	1 9	1 6	1 8	22
3 2	3 2	3 0	2 5	C	2 0	2 2	1 9	U2 3 ⁵	2.2	2 2	2 0	23
3 0	3 2	3 0	2 6	2.4	2 0	1 8	1 8	2 0	2.2	1 7	1 9	24
C	C	C	2 7	2 8	2 2	2 3	C	UI 9 ⁵	2.0	1.8	1 6	25
3 2	3 8	3 0	3 0	2 9	2 2	1 6	1 6	1 7	1 5	2 1	1 8	26
3 7	3 2	3 0	2 8	2 6	2 2	2 1	1.9	2 2	1 4	2 0	2 3	27
3 2	3 0	3 0	2 8	2.2	2 2	2 2	2 0	1 9	1 6	1 5	2 6	28
C	C	C	C	3 0	3 0	2 2	1 5	1 9	1 7	2.2	1 5	29
3.2	3 1	3 2	2 5	2 2	1 8	2 1	1 7	1 8	2 4	1 6	1 5	30
3 2	3 2	3 0	2 8	2 6	2 2	2 2	2 2	2 0	2 4	2 2	2 4	31
28	29	29	30	30	30	31	28	30	31	31	31	Count
3 0	3 2	3 0	2 7	2.6	2 2	2 0	1 6	1 9	1 9	1 8	1 8	Median
3 3	3 3	3 0	2 7	2.6	2 2	2 0	1 7	1 9	1 9	1 8	1 9	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin
 Unit : Mc
 Month : May 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	1.8	1.5	1.7	1.8	1.7	2.1	2.1	2.4	2.8	2.8	3.4	3.2
2	1.7	2.2	2.0	1.8	1.8	1.8	2.3	2.4	3.0	3.0	3.1	3.2
3	2.1	1.7	1.7	2.0	2.0	2.3	2.0	2.4	2.7	3.0	3.8	3.6
4	2.2	2.1	1.5	1.7	1.7	2.2	2.3	2.6	3.4	3.8	3.8	3.5
5	1.6	2.0	2.0	1.6	1.7	2.1	2.2	2.6	2.9	5.3	3.8	3.8
6	1.4	2.0	2.2	1.8	1.7	2.0	2.3	2.7	3.0	3.1	C	3.3
7	1.6	2.1	2.3	2.0	2.1	2.2	2.2	2.2	2.8	3.1	3.2	3.5
8	2.8	2.2	2.1	1.6	1.8	2.1	2.1	2.6	3.1	3.0	3.3	3.8
9	2.1	2.0	1.6	1.8	1.8	2.4	2.4	2.2	2.8	2.8	3.2	3.2
10	1.3	1.3	1.6	1.6	1.6	2.1	2.0	2.1	2.9	3.2	3.2	3.2
11	1.7	1.6	1.3	1.8	2.3	1.9	2.0	2.2	2.5	3.1	3.3	3.2
12	1.6	1.5	1.5	1.6	2.1	2.1	1.7	2.2	2.7	3.0	3.1	3.0
13	1.9	1.7	1.8	1.6	1.7	2.0	2.0	2.4	2.7	2.8	3.0	3.3
14	1.9	2.1	2.2	1.6	1.6	2.1	2.1	2.4	2.6	2.9	3.0	3.1
15	1.7	2.3	2.0	2.2	2.2	2.1	2.1	2.3	2.5	2.8	3.1	3.0
16	1.1	1.7	1.6	1.8	1.9	2.1	2.2	2.2	2.5	2.7	3.0	3.3
17	1.9	1.8	2.8	2.2	1.8	2.0	2.1	2.2	3.0	2.8	3.2	3.3
18	2.0	2.6	1.8	2.0	1.6	2.2	2.2	2.4	2.8	3.0	3.0	3.4
19	1.7	1.7	1.8	1.7	2.0	2.2	1.8	2.3	2.6	3.2	3.0	3.1
20	1.5	C	1.3	1.6	1.8	2.5	2.0	2.1	2.6	C	3.0	3.3
21	1.5	1.6	1.5	1.7	1.7	2.0	2.0	2.3	2.6	2.8	3.0	3.0
22	1.7	1.7	1.3	1.6	1.7	2.4	1.9	2.4	2.7	3.0	3.0	3.1
23	2.0	2.0	1.8	1.7	1.9	2.1	1.8	2.2	2.5	2.7	3.0	3.2
24	2.0	2.2	1.9	2.0	1.7	2.1	1.9	2.4	2.6	2.9	3.0	3.2
25	1.9	1.9	1.8	1.9	1.9	2.4	1.8	2.2	C	C	C	C
26	1.7	1.9	1.7	1.6	1.8	2.1	2.2	2.6	2.7	2.8	3.1	3.4
27	1.8	1.8	1.8	1.6	2.2	2.8	2.2	2.5	2.8	3.0	3.4	3.2
28	2.0	2.1	1.9	2.0	1.8	2.2	2.2	2.5	2.9	2.9	3.0	3.2
29	2.2	2.2	1.9	1.9	1.8	2.2	2.2	2.3	2.6	3.0	C	C
30	1.6	1.5	1.7	1.6	1.7	2.2	2.2	2.1	3.0	2.8	3.0	3.2
31	1.6	1.6	1.6	1.5	2.0	2.0	1.7	2.1	2.6	3.0	3.0	3.0
Count	31	30	31	31	31	31	31	31	30	29	28	29
Median	1.8	1.9	1.8	1.7	1.8	2.1	2.1	2.4	2.7	3.0	3.1	3.2
Mean	1.8	1.9	1.8	1.8	1.8	2.2	2.1	2.3	2.8	3.0	3.2	3.3

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : fmin
Unit . Mc
Month . May 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
3.4	4.0	3.0	3.2	2.3	1.7	2.0	1.3	1.7	1.6	1.4	1.7	1
3.6	3.4	3.0	4.1	3.6	C	1.6	1.6	2.0	1.9	1.5	2.0	2
3.4	3.5	3.0	3.0	2.2	2.4	1.8	1.5	1.9	1.7	1.7	2.1	3
3.6	3.4	3.1	3.1	2.6	2.4	2.0	C	1.9	2.0	1.9	1.9	4
3.4	3.2	4.8	3.4	2.6	2.6	1.6	2.0	2.0	1.6	1.7	1.8	5
3.2	3.2	3.0	2.7	2.2	2.1	1.7	1.9	1.9	2.0	1.9	1.8	6
3.5	3.0	3.2	3.0	2.4	2.6	1.5	2.1	2.2	2.0	2.7	2.4	7
3.8	3.3	3.1	3.0	2.4	2.5	1.7	1.3	2.3	1.7	1.9	2.0	8
3.6	3.2	3.0	2.8	2.3	2.3	1.5	1.6	1.8	2.0	2.2	1.5	9
3.4	3.2	2.9	2.8	2.2	2.6	1.5	UI 7s	UI 7s	2.0	1.7	1.6	10
3.0	3.0	2.8	2.7	UI 5s	2.4	UI 4s	1.5	1.9	1.7	1.6	1.8	11
3.2	2.9	2.6	2.7	2.3	1.9	1.4	1.6	1.9	1.5	UI 1s	1.6	12
3.2	3.0	2.8	2.6	2.2	1.9	1.4	UI 5s	1.8	1.8	2.0	2.1	13
3.2	3.0	UI 6s	UI 7s	2.5	UI 5s	1.8	1.5	1.4	1.7	1.6	1.8	14
3.0	2.8	2.6	2.7	3.0	2.8	2.2	2.0	1.4	1.7	2.6	2.0	15
3.2	3.0	2.7	2.3	2.0	2.2	1.4	1.6	1.5	1.9	1.7	1.7	16
3.3	3.1	2.8	2.8	2.3	2.5	1.5	2.0	2.0	2.2	2.6	2.0	17
3.2	3.0	2.8	2.6	2.3	2.4	1.5	2.0	1.6	1.8	2.0	1.7	18
3.4	3.2	3.0	2.8	2.4	2.5	1.5	2.0	2.4	2.0	1.6	1.6	19
3.4	3.0	2.8	2.8	2.4	2.5	1.5	2.0	2.0	2.0	1.8	1.4	20
3.1	3.0	UI 2.8s	2.6	2.3	2.4	1.5	1.5	1.8	1.9	1.8	1.8	21
3.2	3.0	C	2.8	2.6	2.4	1.7	2.5	S	1.7	1.6	2.2	22
3.3	2.8	2.6	2.8	2.4	1.9	1.8	2.0	2.0	2.0	2.0	1.9	23
3.2	3.3	2.9	2.6	2.4	2.0	1.7	1.7	1.8	1.8	1.7	1.8	24
C	C	3.0	2.6	2.3	2.4	C	1.8	2.2	1.9	2.0	1.8	25
3.2	3.6	2.8	3.0	2.4	1.9	1.7	1.8	1.9	1.9	1.7	1.6	26
3.2	3.0	UI 3.2s	2.7	2.4	1.7	2.0	2.2	2.2	1.8	2.4	2.1	27
3.2	3.1	2.8	2.7	2.3	2.2	1.7	2.0	1.8	1.6	1.7	2.8	28
C	C	C	3.8	2.4	2.6	1.8	1.9	2.2	2.2	1.9	1.8	29
3.2	3.0	2.8	2.5	2.1	1.8	1.9	1.9	2.0	1.7	1.4	1.6	30
3.2	3.1	3.0	3.0	2.4	2.1	2.0	1.8	2.4	2.2	2.2	2.2	31
29	29	29	31	31	30	30	30	30	31	31	31	Count
3.2	3.1	2.9	2.8	2.4	2.4	1.7	1.8	1.9	1.9	1.8	1.8	Median
3.3	3.1	2.9	2.9	2.4	2.3	1.7	1.8	1.9	1.9	1.9	1.9	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic $h'F_2$
 Unit . Km
 Month . May 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	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	C	C
7									L	L ^H	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	C	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	C	L	L
25								L	L	C	L	L
26								L	L	L	L	L
27								L ^H	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
Count												
Median												
Mean												

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic h'F2
Unit Km
Month May 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
C	L	L	L	L	L							4
L	L	L	L	L								5
L	L	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								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
C	G	G	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
.	.	.	.	.	.	.	.	.	.	.	.	Count
.	.	.	.	.	.	.	.	.	.	.	.	Median
.	.	.	.	.	.	.	.	.	.	.	.	Mean

Sweep 1.0 Mc, to 25.0 Mc, in 27 seconds.

Characteristic h'F₂
 Unit : Km
 Month · May 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							L	L	L	L	L	L
2							L	L	L	L	L	L ^{LH}
3								L	L	L	L	L
4								L	L	L	L	L
5							L	L	L	L	C	L
6								L	L	L	L	L
7								L	L ^{LH}	L ^{LH}	L	L
8								L	L	L	L	L
9								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	L
14								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	C	L	L
21								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	C	C	C	C
26							L	L	L	L	L	L
27							L ^{LH}	L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	C	L
30								L	L	L	L	L
31								L	L	L	L	L
Count												
Median							..					
Mean						

Sweep 1 0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic . h'F2
 Unit Km
 Month : May 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	L								2
L	L	L	L	L								3
L	L	A	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								31
												Count
												Median
												Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic · h'F
Unit : Km
Month · May 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	275	275	295	240	230	225	260	240	240	225	220	215H
2	300	300	270	240	220	220	265	240	220H	230	220	225
3	300	280	260	265	240	215	260	U255A	240	225	215	220H
4	300	275	260	240	220	205	260	240	230	B	215	220H
5	U345F	300F	260	225	230	230	270	245	230	225	220H	215
6	U325F	U300F	300F	260F	240F	220	270	245	230	235	C	C
7	340	315	300	285	240	220	265	240	225	220	210H	200H
8	300	295	260	250	235	230	260	240	225	220	210	B
9	310	280	240	215	220	260	260	240	235	220	205H	210H
10	300	U265F	265	245	215	225F	260	240	230	225	210	205H
11	230	270	300	290	220	230	270	240	235	230	220	210
12	270	280	285	265	230	220	265	240	230	220	215H	C
13	U310F	250	260	250	220	230	260	240	230	220	210	205
14	290	300	U350F	300	240	235	260	240	235	220	220	220
15	300	290	300	300	300	240	240	240	220	215	210	200
16	265	270	300	280	220	220	245	235	225H	220	210	215H
17	340	320	300	270	235	220	250	230	220	220	200H	210
18	310	330	300	280	230	220	260	240	220	220	215	200
19	U380F	405	420F	380F	275	220	250	240	220	220	U220B	200
20	260	240	240	220	215	220	250	240	220	C	220	200M
21	300	300	300	260	210	210	250	230	220	220	215	200M
22	340	345	F	275	245	220	250	225	220	205H	200H	205
23	320	280	245	235	230	230	260	235	220	215	205	200H
24	315	300	270	270	240	220	250	235	220	205H	200H	200H
25	300	300	280	240	225	225	260	230	220	C	C	C
26	285	270	260	225	225	220	255	235	220H	220	210	210
27	380	400	375	270	240	240	260	240	225	210	200H	200
28	260	300	310	300	240	225	270	240	220	215	210	205
29	320	300	270	260	240	230	260	235	225	210	C	C
30	325	340	330	280	240	240	260	240	230	220	210	205
31	360	350	330	300	260	235	265	245	230	220	210	240
Count	31	31	30	31	31	31	31	31	31	28	28	26
Median	300	300	290	265	230	225	260	240	225	220	210	205
Mean	310	300	290	265	235	225	260	240	225	220	210	210

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic . h'F
 Unit : Km
 Month . May, 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
205	210	220	210	245	270H	320	430	500	440F	370	335	1
215	215	225	230	245	C	305	425	F	F	360F	330	2
205H	205H	225	230	240	260H	300H	470H	F	F	380	300	3
C	205H	205H	A	A	280	310H	470H	C	400	390	400	4
220	210	220	230	245	265H	315	C	F	F	F	U365F	5
215	210H	205H	225H	230	260	315	415F	F	F	U360F	370	6
215H	215H	220	220	240	260	300	400	440	420	360	330	7
210H	220H	220H	220H	235	260	310	445	480	500	340	340	8
205H	200H	215H	220	240	260	300	C	F	370	350	315	9
200H	205H	220	230	240	265	300	420F	F	410F	325	230	10
220	205H	205	215	240	255	310	U430F	F	F	290	260	11
210	200	200	220	240	255	300	F	F	F	350	325	12
200	200	205	230H	230H	255	295	410	U395F	365	340	310	13
215	210	215	225	240	250	300	410	450	400	340	305	14
200	205	215H	220	225	250H	290	400	U415F	385	340	295	15
205H	205	200	215	220H	260	300	U390F	F	U390F	U345F	305	16
200	200	200	210	220	240	280	360	U400F	380	U360F	340	17
205	200	200H	220H	230	240	280	380	U350F	U380F	360	360	18
200	200	200	220	225	240	280	380F	F	U370F	340	300	19
210	210H	200	205	210	240	280	340	U400F	410F	U360F	320	20
200H	200H	200	220	220	240	270	380	U480F	U460F	U470F	U385F	21
205H	195H	200	200	225	245	280	365	420	390	360	350	22
205	210	205	215	C	255	290	395	F	F	F	U380F	23
195H	200H	200H	215	240	250	290	400	U425F	U400F	360	325	24
C	C	C	205H	220	235	295	C	F	F	380	320	25
200H	215H	205H	230	A	U245A	U300A	380	420	F	380	280	26
210	200	220	A	240	260	285	360	F	380	330	300	27
205	210	210	220	240	245	295	400	440	440	410	360	28
C	C	C	C	240	265	300	340	310	285	300	275	29
210	220	210	240	260	270	300	440	F	F	U460F	410	30
215	220	220	A	240	260	295	380	F	340	310	240	31
28	29	29	27	28	30	31	27	15	21	29	31	Count
205	205	205	220	240	255	300	400	420	390	360	325	Median
205	205	210	220	235	255	295	400	420	395	360	330	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic h'F
Unit : Km
Month : May 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	265	280	265	220	220	245	270	240	230	215	210	205H
2	300	300	260	230	220	240	250	240	230H	225	210H	215
3	285	260	270	260	230	235	265	245	230H	220	220	210H
4	290	260	240	230	220	240	250	235	230	B	210	215
5	U360F	300F	230	235	235	270	250	240	230	B	215	215
6	U280F	U315F	U305F	U240F	225	240	275	240	225	220	C	220
7	320	A	300	260	230	240	265	230	220H	200H	220	220H
8	300	285	260	240	235	260	245H	240	225	220	200	235
9	280	265	220	210	255	280	250	240	225	215	210H	200H
10	280F	255	255	230	215	255F	250	240	220	210H	205H	205H
11	240	280	305	250	225	260	250	240	230	220	220	200
12	280	285	280	245	220	240	250	230	220	220H	210H	210
13	280	240	265	235	220	260	250	235	225	220	210	200
14	280	U345F	U305F	270	240	260	250	240	230	220	220	215
15	290	295	300	300	280	230	245	235	215	215	215	200
16	260	290	295	240	200	240	245	235	220	220	200	215H
17	340	320	280	240	220	240	240	220H	220	220	210H	200
18	290	300	285	260	220	240	240	235	220	210	200	200
19	400F	420	420F	300	240	240	240	230	220	215	210	200
20	240	240	240	220	220	240	A	230	220	C	210	215
21	300	300	280	225	205	260	240	230	220	215	200	200H
22	335	360	330	265	225	240	240	225	215	205	200H	205H
23	300	255	240	225	225	255	240	220	220	210	200	205
24	300	300	275	260	225	245	240	225	215	205	200	200H
25	305	300	260	230	230	260	240	225	C	C	C	C
26	280	260	245	225	220	240	240	220	215	210	210	205H
27	385	395	320	245	240	300	250	235	220	210H	200	210
28	280	310	310	265	230	255	250	230	220	210	210	200
29	310	280	260	260	230	255	240	220	220	210	C	C
30	340	355	305	260	240	260	250	235	230	215	210	200
31	360	355	320	285	245	250	260	235	230	220	210	205
Count	31	30	31	31	31	31	30	31	30	27	28	29
Median	290	300	280	240	225	245	250	235	220	215	210	205
Mean	300	300	280	245	230	250	250	235	225	215	210	205

Sweep 1 0 Mc to 25 0 Mc. in 27 seconds

Characteristic : h'F
Unit . Km
Month : May 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
205H	215	215	235	250H	280	370	480	U500F	415F	360	320	1
220	220	220	245	250H	C	360	F	F	380	340F	310	2
215	215	220	240	245	265H	360H	F	F	F	330	305	3
205H	205H	A	A	A	300H	325H	C	F	400	410	U360F	4
215	210	240	245	250H	290	380	F	F	F	F	U325F	5
210	205H	220H	230	245	280	365	F	U470F	F	370	360	6
205H	210	220	235	240	280	350	440	440	400	340	305	7
215H	220H	220	230	250	280	370	500	480	380	360	335	8
200H	200H	215	240	240	280	360	480	340	440	300	310	9
200H	200	220	235	245	280	345	F	F	370	275	225	10
210H	200H	215	235	240	280	360	F	F	U285F	260	265	11
210	200	210H	215	250	270	350	U490F	F	U380F	335	335	12
200	205	220	225H	240	270	340	U405F	380	345	320	310	13
215	210	225	235	250	275	345	450	420	380	320	300	14
200	210	220	220	240	275	340	425	U400A	355	320	280	15
200	200	205	215H	245	280	330	U400F	F	U360F	320	320	16
200	200	205	220	240	260	310	U380F	U360F	370	U350F	340F	17
200	200H	210H	220	240	260	320	340	U400F	380	360	U380F	18
200	200	210	215	240	255	305	U380F	U300F	U360F	320	260	19
210	200H	200	205	240	260	305	400	U420F	U360F	340	300	20
200H	205	200	220	230H	260	310	U440F	U470F	U460F	U400F	370	21
200H	200	C	220	240	260	320	400	F	U380F	U380F	340	22
200H	210	205H	215	245	270	320	F	F	F	F	345	23
200H	200H	205	225	240	280	330	435	U420F	380	345	300	24
C	C	205	210	230	260	C	U360F	F	380	340	300	25
205H	215H	A	215	U240A	A	320	U425F	F	420	F	380	26
210	215	A	A	240	265	305	F	385	360	310	275	27
200	205	220	U250A	240	260	340	420	465	420	380	330	28
C	C	C	220	255	280	330	340	300	300	275	280	29
225	220	230	U255A	260	280	340	F	F	F	410	400	30
210	220	220	A	240	270	320	400	U380F	340	280	220	31
29	29	26	28	30	29	30	21	18	26	28	31	Count
205	205	220	225	240	275	340	420	U410	380	340	310	Median
205	205	215	230	245	275	340	420	U405	375	340	315	Mean

Sweep 10 Mc to 250 Mc. in 27 seconds

Characteristic · h'E
 Unit : Km
 Month . May 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	A	A	A	A
2								110	A	A	A	A
3								115	105	A	A	A
4								105	A	B	A	A
5							130	120	A	A	B	A
6								115	A	B	C	C
7									A	A	A	A
8							125	110	A	A	A	B
9								120	105	A	A	A
10								110	A	A	A	A
11							145	A	A	A	A	A
12							130	A	A	A	A	C
13								110	105	A	A	A
14								115	110	A	A	A
15							140	115	105	100	100	A
16								110	A	A	A	A
17							120	110	A	A	A	A
18								105	A	B	A	A
19								110	A	A	B	A
20								A	A	C	A	A
21							120	100	A	A	A	A
22							110H	A	110	A	A	A
23							120	110	105	A	A	A
24							115H	105	105	A	A	A
25							120	110	105	C	C	C
26							120	110	115	105	A	A
27								A	A	A	A	A
28								115	110	A	A	A
29								110	110	110	C	C
30							125	110	110	110	110	A
31								110	110	110	110	B
Count							13	25	14	5	3	..
Median							120	110	110	110		..
Mean							125	110	110	105	..	.

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic h'E
Unit : Km
Month : May 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	110								2
A	A	A	105	105	100							3
C	A	105	A	A	A							4
A	A	105	105	110	110							5
A	105	A	A	105								6
A	A	105	A	105								7
A	A	105	105	110	115							8
A	A	A	A	A	115							9
A	A	B	A	105	A							10
A	A	A	A	A	A							11
A	A	A	A	A	A							12
A	A	A	A	A	115							13
A	A	A	A	A	A							14
A	A	A	A	A	A							15
A	A	A	A	A	A							16
A	110	A	A	A	110							17
A	A	A	A	110	115							18
A	A	A	105	105	115							19
A	A	A	A	110	115							20
A	A	A	A	A	110							21
A	A	A	110	115	120							22
A	A	A	A	C	A							23
A	A	A	105	105	110	140						24
C	C	C	105	110	105							25
A	B	A	A	A	A	A						26
B	A	110	110	110								27
A	A	A	110	110	110							28
C	C	C	C	115								29
A	A	A	A	A								30
A	A	110	A	115	120							31
..	2	6	9	17	15	1						Count
..		105	105	110	110							Median
..	.	105	105	110	110							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E
 Unit Km
 Month : May 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							115H	A	A	A	A	A
2							120	A	A	A	A	A
3							115H	105	A	A	A	A
4							120	A	B	A	A	A
5							120	A	A	B	A	A
6							115H	115	110	A	C	A
7							A	A	A	A	A	A
8							110	110	A	A	A	A
9							120	105	105	A	A	A
10							110H	A	105	A	A	A
11							120H	A	A	A	A	A
12							120	A	A	A	A	A
13							120H	110	A	A	A	A
14							120	110	A	110	A	A
15							120H	110H	100	100	A	A
16							120H	A	A	A	A	A
17							110	A	A	A	A	A
18							120	100	105	A	A	A
19							110	105	A	A	A	A
20							A	A	A	C	A	A
21							110	A	A	A	A	A
22							110H	110	105	A	A	A
23							110	105	A	A	A	A
24							115	105	A	A	A	A
25							115	105	C	C	C	C
26							120	110	105	A	A	A
27							105	A	A	A	A	A
28							120	115	110	A	A	A
29							115	110	110	A	C	C
30							120	110	110	110	A	A
31							110	110	110	A	110	A
Count							29	18	11	3	1	
Median							115	110	105	.	-	.
Mean							115	110	105	.		

Sweep 1 0 Mc to 25 0 Mc in 27 seconds.

Characteristic : h'E
 Unit : Km
 Month : May 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
A	B	A	A	A								1
A	A	A	B									2
A	A	105	115	105								3
A	A	A	A	Λ								4
A	A	B	A	105								5
A	A	A	110	105								6
A	A	Λ	105	105								7
A	A	Λ	105	110								8
A	A	A	A	110								9
A	110	A	110	110								10
A	A	Λ	A	A								11
A	A	Λ	A	Λ	A							12
A	A	Λ	A	Λ	130							13
A	A	Λ	A	A								14
A	A	A	A	A								15
A	A	Λ	A	Λ	A							16
A	105	A	A	105								17
A	A	A	A	110								18
A	A	A	110	110								19
A	A	A	105	110								20
A	A	A	A	A								21
A	A	C	110	120								22
A	A	A	A	A								23
A	A	A	105	110	A							24
A	C	A	110	110	115 S							25
A	A	A	105	Λ	A							26
A	A	A	110	110								27
A	A	110	110	110								28
A	C	C	B	120								29
A	A	A	110	110								30
A	Λ	110	120	110								31
	2	3	15	19	2							Count
.	.		110	110								Median
..		.	110	110								Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es
 Unit : Km
 Month May 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								G	100	100	100	100
2							120	135	100	100	100	100
3							120	125	100	100	100	100
4								100	100	100	100	100
5	110	105					G	G	100	100	100	100
6		135					110	100	100	100	C	C
7							120	100	100	100	100	100
8							G	G	100	100	100	100
9								G	100	100	100	100
10								G	100	100	100	100
11							G	100	100	100	100	100
12			110				G	100	100	100	100	C
13	115							100	100	100	100	100
14								G	G	100	100	100
15							G	G	100	100	100	100
16	110	120						100	100	100	100	100
17	110						G	100	100	100	100	100
18							120	100	100	100	100	100
19								100	100	100	100	100
20								100	100	C	100	100
21		110		105			110	G	100	100	100	100
22							150	105	100	100	100	100
23							G	100	100	100	100	100
24	105						160	100	100	100	100	100
25							G	100	100	C	C	C
26		100					G	100	120	100	100	100
27	100		105			C	90	100	100	95	95	95
28								G	100	100	100	100
29	100							G	100	100	C	C
30							G	G	G	G	100	100
31	120	120	105	140				140	100	100	100	100
Count	8	6	3	2		.	9	20	29	28	28	27
Median	110	115				.	120	100	100	100	100	100
Mean	110	115	.				120	105	100	100	100	100

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : h'Es
 Unit : Km
 Month : May 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	100					115	110	1
100	100	100	100	100	C							2
100	100	100	100	115	100							3
C	100	100	105	105	100			C				4
100	100	100	100	100	100		C	C		120		5
100	100	100	100	100	105							6
100	100	100	100	100	100				120	100		7
100	100	100	100	100	100					120		8
100	100	100	100	100	100					120		9
100	100	100	100	100	100							10
100	100	100	100	100	100					115		11
100	100	100	100	100	100					120		12
100	100	100	100	100	100							13
100	100	100	100	100	100							14
100	100	100	100	100	100							15
100	100	100	100	100	100			135	120			16
100	100	100	100	100	100						115	17
100	100	100	100	100	100					110		18
100	100	100	100	G	100						120	19
100	100	100	100	100	100							20
100	100	100	100	100	100						120	21
100	100	100	100	G	G					120		22
100	100	100	100	C	100							23
100	100	100	100	100	100	160						24
C	C	C	100	G	105		C					25
100	100	100	100	100	100	100			110			26
100	100	100	100	100	100	115			120	120		27
100	100	100	100	100	105				120	120		28
C	C	C	C	G								29
100	100	100	100	100	100	140				120	120	30
100	100	100	100	100	G							31
28	29	29	30	26	26	5		1	5	12	5	Count
100	100	100	100	100	100	115		.	120	120	120	Median
100	100	100	100	100	100	125			120	115	115	Mean

Sweep 10 Mc to 25 0 Mc. in 27 seconds

Characteristic · h'Es
Unit · Km
Month · May 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							100	100	100	100	100	100
3							120	100	100	100	100	100
4							G	100	100	100	100	100
5	105						G	100	100	100	100	100
6							140	G	100	100	C	100
7		100					110	100	100	100	100	100
8							G	100	100	100	100	100
9							G	G	100	100	100	100
10							G	100	100	100	100	100
11			110	110			110	100	100	100	100	100
12	115		110				105	100	100	100	100	100
13	115						G	100	100	100	100	100
14							G	G	100	100	100	100
15							120	G	100	100	100	100
16	115	115					G	100	100	100	100	100
17							G	100	100	100	100	100
18							140	G	100	100	100	100
19			110				G	100	100	100	100	100
20							100	100	100	C	100	100
21	110		105				G	100	100	100	100	100
22							G	G	100	100	100	100
23							100	100	100	100	100	100
24							100	100	100	100	100	100
25		110					105	100	C	C	C	C
26		100					G	G	100	100	100	100
27		110					100	100	100	90	100	100
28							G	100	100	100	100	100
29							G	100	100	100	C	C
30							G	G	100	100	100	100
31	120	100	100				130	110	100	100	100	100
Count	6	6	5	1			14	23	30	29	28	29
Median	115	105	110				110	100	100	100	100	100
Mean	115	105	105				115	100	100	100	100	100

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
Unit Km
Month . May 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	100				110	110	105	1
100	100	100	100	100	G							2
100	100	100	120	100			G					3
100	100	105	105	100	170							4
100	100	100	100	100								5
100	100	100	100	100	105							6
100	100	100	100	100					120	120		7
100	100	100	100	100					120	120		8
100	100	100	100	100								9
100	100	100	100	100								10
100	100	100	100	100								11
100	100	100	100	100					120			12
100	100	100	100	100	G							13
100	100	100	100	100								14
100	100	100	100	100				120			115	15
100	100	100	100	100	100			115		115	110	16
100	100	100	100	100	100							17
100	100	100	100	G								18
100	100	100	100	100								19
100	100	100	100	100	140						110	20
100	100	100	100	100								21
100	100	G	G	G						135		22
100	100	100	100	100	100				120		105	23
100	100	100	100	100	140							24
C	C	100	G	100	S	C						25
100	100	100	G	100	100	100			110	110	100	26
100	100	120	110	100	110	S			110			27
100	100	100	100	105					115	120		28
C	C	C	G	100								29
100	100	100	100	100	100				120	115	115	30
100	100	100	120	100	120							31
29	29	29	27	27	13	1		2	9	8	7	Count
100	100	100	100	100	105				120	120	110	Median
100	100	100	100	100	115				115	120	110	Mean

Sweep 1 0 Mc. to 25 0 Mc in 27 seconds

Characteristic · (M3000)F2

TABLE 55

Latitude : 10°2' N

Unit : —

Ionospheric Data

Longitude · 77°5' E

Month : May 1958

75°0'E Mean Time

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

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : (M3000)F2

TABLE 55

Latitude : 10 2° N

Unit , —

Ionospheric Data

Longitude : 77 5° E

Month · May 1958

75 0°E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
2 05	2 00	2 05	2 05	2 05	2 10	2 05	2 00	U2 00 ^s	2 00 ^s	U2 05 ^F	F	1
2 00	2 00	2 05	2 05	2 10	C	2 05	U2 00 ^R	F	2 05 ^F	U2 15 ^F	2 25	2
2 05	2 00	2 00	2 10	2 15	2 20	2 05	1 95	F	F	F	F	3
C	2 00	2 05	2 15	2 20	2 15	2 05	2 00	C	F	F	F	4
2.00	1 95	1 95	2 00	2 05	2 05	2 00	C	F	F	F	F	5
2 05	2 00	1 95	2 00	2.05	2 05	2 00	1 90 ^F	F	F	F	F	6
2 05	2 00	2 00	2 00	2 05	2 10	2 15	2 00	2 05	2 10	2 25	F	7
2 00	2 00	2 00	2 05	2 05	2 05	2 05	1 95	U1 90 ^F	F	U2 15 ^k	F	8
2 00	2 05	2 05	2 00	2 00	U2 05 ^S	U2 00 ^S	C	F	U2.00 ^F	F	U2 35 ^F	9
2 05	2 05	2 10	2 10	2 10	2 05	U2 05 ^s	1 95 ^k	U2 00 ^s	2 10	2 35	2.55	10
2 05	2 00	2 05	U2 10 ^S	2 20	2 20	U2 05 ^s	1 95	F	F	U2.20 ^S	2 50	11
2 10	2 10	2 15	2 10	2 15	U2.15 ^S	U2 05 ^s	U1 90 ^k	U1 90 ^F	F	U2 35 ^S	U2 45 ^F	12
2.15	2 10	2 10	2 15	2 15	2 10	2 05	2 00	U2 10 ^S	2 25	J2 45 ^S	2 55	13
2 15	2 15	2 15	U2 20 ^S	2 15	2 15	2.05	U2 10 ^R	1 85	2 05	FS ^S	2 35	14
2.15	2 10	J2 15 ^R	2 10	2 15	J2 20 ^S	2 35	2 20	U2 10 ^S	2.20	2 35	U2 65 ^s	15
2 20	2 20	2 20	2 20	2 35	2 45	2 35	J2 10 ^R	F	F	F	FS	16
2 25	2 10	2 15	2 10	U2 15 ^s	2 20	U2 30 ^S	2 20	2 15	U2 15 ^F	F	F	17
2 20	2 15	2 20	2 15	2 25	U2 35 ^S	2 35	U2 20 ^S	F	2.25	F	F	18
2 20	2 20	2 10	2 10	U2 20 ^S	U2 30 ^S	2 30	U2 25 ^{II}	F	2 30	2 45	U2 80 ^S	19
2 15	2 15	2 15	2 20	2 25	U2 25 ^S	J2 30 ^S	U2 20 ^S	2 20	F	U2 40 ^F	J2.65 ^F	20
2 10	2 10	2 15	2 15	U2 20 ^S	U2 25 ^s	U2 30 ^S	2 15	U2 10 ^F	F	F	F	21
2 15	2 05	2 10	2 10	2 20	2 30	2 30	U2 25 ^S	2 20	2 30	2 35 ^F	2 50	22
2 10	2 10	2 10	2.15	C	2 20	J2 25 ^S	2 10	F	F	F	F	23
2 10	2 10	2 10	2 05	2 15	U2 25 ^S	U2 25 ^S	2 05	U2 05 ^S	U2 15 ^F	U2 20 ^F	U2 35 ^F	24
C	C	C	2 10	2 20	2 20	J2.15 ^S	C	F	F	2 30	F	25
2 05	2 05	2 10	2 10	2 20	J2.30 ^S	U2 25 ^S	2.15	2.15	U2 10 ^S	U2.25 ^F	F	26
2 05	2 10	2 10	S	2 20	2.20	U2 10 ^S	F	2 15	2 25	2 40	2 60	27
2 20	2 05	2 10	2 10	U2 25 ^S	2 20	2 15	2 05	U2.00 ^S	F	F	F	28
C	C	C	C	U2 25 ^R	2 35	2 30	2 25	2 35	2 55	2.65	2 80	29
2 05	2 05	2 10	2 05	2 15	U2 20 ^S	U2 15 ^S	F	F	F	F	F	30
2 05	2 05	2 10	2 15	2 30	2 30	2 30	2.10	F	2 25	2 50	2 95	31
28	29	29	29	30	30	31	26	17	17	18	15	Count
2 10	2 05	2 10	2 10	2 15	2 20	2.15	2 10	U2 10	2.15	U2 35	2 55	Median
2 10	2 05	2 10	2 10	2.15	2.20	2 15	2.10	U2.05	2.20	U2.30	2.55	Mean

Sweep 1 0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic (M3000)F2

Unit : —

Month . May 1958

TABLE 55—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	2 55	2 50	2 55	2 85	U3 10 ^s	2 85	2 85	2 60	2 40	2 05	2 05	2.00
2	U2 40 ^s	U2 45 ^s	2 65	2 90	3 05	3.00	2 90	2 65	2 35	2 00	2 05	2 05
3	U2 35 ^s	U2 45 ^F	F	2 70	3 05	3 00	2 85	2 60	2 20	2 15	2 10	2 05
4	F	F	F	2 95	3 10	2 90	2 90	2 65	2 25	2 10	2 10	2 10
5	F	U2 45 ^F	F	F	3 00 ^F	2 75	2 85	2 60	2 25	2 15	2 00	2 00
6	F	F	F	F	F	U3 00 ^F	2 90	2 60	2 35	2 00	C	2 00
7	2 40 ^F	F	F	F	U2 90 ^F	2 95	2 90	2.70	2 35	1 95 ^U	2 10	2 05
8	2 50	2 65 ^F	2 60	2 85 ^F	3 00 ^F	2 90 ^F	2 90 ^F	2 65	2 45	2 05	2 10	2 05
9	2 50	2 65	2 95	3 00	2 85	2 75	2 90	2 75	2 50	2 30	2 10	2 05
10	2 50 ^F	2 60	2 80	F	U3 05 ^F	3 00 ^F	2 95	2 95	2 65	2 35	2 05	2 00
11	2 75	2 70	2 65	2 85	3 05	U2 75 ^s	U2 85 ^s	2 70	2 45	2 25	2 05	2 10
12	2 60	U2 60 ^F	U2 65 ^F	U2 85 ^F	J3 20 ^s	2 75	2 70	2 40	2 30	2 25	2.20	2 15
13	U2 60 ^F	U2 80 ^F	F ^s	F ^s	3 15	2 75	2 90	2 70	2 35	2 15	2 15	2 20
14	2 55	F	F	F	U2 95 ^s	2.90	J2 90 ^s	2 70	U2 55 ^s	2 25	2 00	2 10
15	U2 50 ^s	U2 55 ^s	F ^s	U2 55 ^s	U2 75 ^s	3 75	U3 05 ^s	2.80	J2 55 ^s	2 15	2 05	2.25
16	U2 85 ^s	U2 70 ^s	U2 65 ^s	2 90	J3 30 ^s	J3 0 ^s	3 05	2 90	2 60	2 30	2 10	2.20
17	F	F	F	F	F	3 05	3.10	2 80	2 15	2 20	2 30	2.30
18	F	U2 70 ^F	U2 80 ^F	F	3.10	3 10	3 10	2 85	J2 70 ^R	U2 30 ^R	2 10	2 20
19	F	F	F	F	F	3 10	3 00	2 75	2 40	2.20	2.20	2.20
20	2.90	2 90	3 05	3 20	3 20	3 20	U3.00 ^s	2 70	2 40	C	2 20	2.15
21	2 70	U2 75 ^s	2 90	J3 10 ^R	3 30	3 00	3.10	U2 85 ^s	2 55	2 20	2 20	2 05
22	F	F	F	F	F	3 05	3 00	2 75	2 45	2 10	2 10	2 15
23	2 70	U2 90 ^F	U3 00 ^F	3 10	2 95	2 95	2 80	2.55	2 35	2 25	2 20	2.15
24	F	F	F	F	3 05	3 15	2.95	2 70	2 40	2 15	2 10	2 15
25	F	F	F	F	3 10	3 10	2 85	2 60	C	C	C	C
26	2 65	2 75	2 85	3.15	3 20	3.10	2 85	2 70	2 50	2 25	2 05	2 00
27	2 30	U2 30 ^F	2 50	2 80	2 90	2.70	2 25 ^H	2 55	2 35	2 20	2 15	2.05
28	2 65	U2 60 ^s	U2 55 ^s	2 80	2 95	2 95	2 90	2 70	U2.45 ^R	2 05	2 10	2 05
29	F	2 65	U2 70 ^F	2.85	2 85	3 00	3 05	2.80	U2 40 ^R	U2 15 ^R	C	C
30	U2 60 ^s	2 50	2 50	2 70	2 80	2.95	2 95	2 80	2 60	2 40	2 10	2.05
31	U2 40 ^F	F	F	2 70	2 95	2 95	2 90	2 70	2.40	U2 20 ^R	2 15	2.15
Count	21	21	17	19	27	31	31	31	30	29	28	29
Median	2 55	2 65	2 65	2 85	3 05	3 00	2 90	2 70	2 40	2 20	2 10	2 10
Mean	2 55	2 65	2 70	2 90	3 05	3 00	2.90	2 70	2 45	2 20	2 10	2 10

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic (M3000)F2
 Unit —
 Month May 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 00	2 05	2 05	2 05	2 10	2 00	1 95	1 95 ^F	2 05	U2 10 ^F	2 30	1
2 00	2 00	2 05	2 10	2 15	C	U2 00 ^S	1 90 ^F	F	F	U2 20 ^F	U2 25 ^R	2
2 05	2 00	2 05	2 10	2 20	U2 15 ^R	J2 00 ^S	F	F	F	F	F	3
2 00	2 00	2 05	2 20	2 20	2 15	U2 00 ^S	C	F	F	F	F	4
1 95	1 95	2 00	2 00	2 05	2 05	1 95	F	F	F	F	F	5
2 00	2 00	2 00	2 00	2 05	2 00	1 95	U1 90 ^F	U1 90 ^F	F	F	F	6
2 05	2 00	2 00	2 00	2 05	2 15	2 05	2 00 ^V	2 05	2 15	2 35	2 40	7
2 00	2 00	2 00	2 00	2 05	2 05	1 95	U1 90 ^F	U1 90 ^F	U2 10 ^F	U2 20 ^F	F	8
2 00	2 05	2 05	2 05	2 00	U2 05 ^S	U2 00 ^S	F	F	F	F	U2 40 ^F	9
2 05	2 10	2 10	2 10	2 10	2 05	2 00	U1 90 ^F	2 00	2 20	2 50	2 65	10
2 00	2 05	2 05	2 15	2 20	2 15	U2 05 ^S	F	F	F	2 35	FS	11
2 10	2 15	2 15	2 10	U2 15 ^S	2 05	2 00	U1 85 ^F	F	2 15	FS	FS	12
2 15	2 15	2 15	2 15	2 15	2 15	U2 00 ^S	2 00	2 15	2 35	2 45	2 55	13
2 10	2 15	2 20	2 15	2 15	U2 15 ^S	U2 00 ^S	U1 95 ^S	2 05	U2 10 ^S	U2 20 ^S	U2 40 ^S	14
2 15	2 10	2 15	2 10	2 25	2 25	2 20	U2 15 ^S	2 10	2 25	2 50	2 70	15
2 20	2 25	2 25	2 30	2 45	U2 45 ^R	J2 20 ^S	2 00	F	F	F	F	16
2 20	2 10	2 10	U2 15 ^R	2 20	U2 25 ^S	U2 30 ^S	2 10	F	F	F	F	17
2 15	2 15	2 10	2 15	U2 30 ^S	2 30	2 25	U2 15 ^F	F	U2 25 ^F	F	F	18
2 20	2 15	2 15	2 15	U2 25 ^S	U2 35 ^S	2 30	U2 25 ^F	F	2 35	2 55	2 90	19
2 15	2 15	J2 15 ^R	2 20	2 25	U2 30 ^S	J2 25 ^S	2 20	U2 20 ^F	F	F	2 65	20
2 10	2 10	2 15	2 20	U2 20 ^S	U2 30 ^S	2 20	S	U2 05 ^F	F	F	F	21
2 10	2 10	C	2 20	2 25	2 35	2 25	J2 20 ^R	2 25	2 35	F	2 55 ^F	22
2 10	2 10	2 10	2 15	2 15	U2 25 ^S	U2 15 ^S	2 05	F	F	F	F	23
2 10	2 10	2 10	2 10	2 20	2 25	2 10	J2 10 ^F	U2 10 ^S	2 25 ^F	F	F	24
C	C	2 10	2 20	2 20	U2 20 ^S	C	F	F	2 25	F	2 55	25
2 00	2 05	2 00	2 20	2 30	U2 30 ^S	2 25	2 15	2 15	2 15	F	2 35	26
2 05	2 05	2 15	2 20	2 20	U2 15 ^S	2 15	U2 15 ^F	2 15	2 35	2 50	2 65	27
2 15	2 05	2 05	2 20	U2 25 ^S	2 15	2 10	FS	F	F	F	U2 35 ^F	28
C	C	C	2 15	2 25	2 30	2 25	2 30	2 50	2 55	2 80	2 75	29
2 05	2 10	2 05	2 10	2 15	2 20	2 10	F	F	F	F	F	30
2 00	2 05	2 10	U2 25 ^R	2 35	2 35	2 25	2 10	2 15	2 40	U2 80 ^S	3 25	31
29	29	29	31	31	30	30	22	16	17	13	17	Count
2 05	2 10	2 10	2 15	2 20	2 20	2 10	2 10	2 10	2 25	2 45	2 55	Median
2 10	2 10	2 10	2 15	2 20	2 20	2 10	2 05	2 10	2 25	2 40	2 60	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic . foF2
 Unit Mc
 Month June 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	8 2	6 1	U5 6s	4 4	3 7	U4 5FH	9 3	11 6	11 7	13 5	14 1	U12 4R
2	F	8 6F	U8 6F	F	F	U7 5F	9 6	10 6H	11 4	11.7	10 7	10 0
3	10 8	11 0F	9 6F	8 8F	7 5F	6 2	8 8	11 3	12 5	12 8	13 0	12 1
4	U9 7F	F	F	F	F	F	8 9F	11 0	12 0	12 4	11 3	11 0
5	8 8	8 8	9 4	U8 8F	F	F	10 2F	12 0	12 9	12 8	12 2	10 6
6	F	F	F	F	F	7 7	9 7	11 3	12 2	C	11 2	11 0
7	F	F	F	U9 3F	8 7	5 5	8 5	11 1	11 4	12 2	12 7	11.9
8	F	F	U6 6F	F	F	F	U9 8s	11 4	12 5	12 8	12 1	10 5
9	F	F	F	F	F	7 3	C	11 3	12 5	11 9	U12 1R	10 0
10	F	F	8 5F	8 6	7 4	6 4	8 1	9 6	11 5	12 8	13 1	12 8
11	Fs	8 3	U8 6Fs	U8 5s	7 4	U7 3s	9 6	J11 8s	11 7	12 7	13 1	12 9
12	F	Fs	Fs	Fs	8 0	U8 1s	9 2	11 1	11 7	U11 5R	10 7	10 4
13	8 5	U8 2F	F	F	U7 9F	6 6	9 3	11 5	U11 2R	10 8	10 0	10 2
14	F	F	F	F	F	8 0	U9 6s	11 0	11 5	11 4	10 5	10 1
15	F	F	F	U8 6F	7 9	4 8	8 1	10 6	11 4	J10 7R	C	10 0
16	U7 3s	6 6	6 6	6 7	U7 1s	5 0	7 6	J10 OR	10 8	10 9	10 6	11 0
17	F	U7 2F	7 0	6 6	6 8	6 0	8 2	10 1	U11 2R	C	C	9 6
18	F	F	F	U6 2F	5 5	4 8	7 9	10 0	11 2	11 8	C	C
19	F	F	6 4	U6 1s	6 4	5 7	7 6	10 1	11 2	11 4	11 0	10 6
20	F	F	F	F	F	F	U8 8F	10 6	11 8	11 9	12 0	11 6
21	F	F	F	F	F	5 4	8 4	10 9	10.7	10 8	10 7	11 5
22	6 3	U5 1s	4 2	4 4	3 6	3 7H	J7 1s	8 9	10 8	11 9	12 2	12 3
23	F	F	F	F	J6 2F	4 2	8 2	11 0	11 8	12 4H	11 2	11.3
24	F	F	F	F	J8 7F	6 9F	9 0	10 9	11.2	10 9	10 6H	10 5
25	U9 9s	U9 1s	9 0	U9 3s	U8 OR	6 6	8 8	10 7	11 5	12 2	12 1	12 2
26	F	F	F	F	F	6 0	9 0	10 8	12 2	12 3	U12 OR	11 3
27	U8 OF	F	F	F	8 5	7 4	9 0	11 0	11 8	11 7	11 0	10 5
28	F	F	F	8 1	U6 4s	4 4	7 7	10 1	10 0	9 5	9 6	8
29	F	F	F	F	5 9	U4 6s	8 3	10 4	11 5	12 3	13 5	12 8
30	9 0	8.9	7 9	7 0	5 6	4 3	7 8	11 0	12 4	12 6	12 1	11 1
Count	10	11	13	15	20	26	29	30	30	28	27	29
Median	8 6	8 3	7 9	U8 1	7 2	6 0	8 8	11 0	11 5	11 9	12 0	11 0
Mean	8 6	8 0	7 5	U7 4	6 9	6 0	8 7	10 9	11 6	11 9	11 7	11 1

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foF2
Unit Mc
Month June 1958

TABLE 56
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	11 6	11 6	11 4	11 6	12 3	12 6	11 7	11 0	10 7	10 4	U9 6F	1
10 1	9 7	9 7	10 1	10 1	9 8	U9 6S	9 4	8 7	9 0	U9 8F	10 6	2
11 5	11 0	11 5	11 6	11 6	12 2	U11 7S	11 4F	U10 2F	F	F	F	3
10 6	10 7	10 3	11 2	U11 1R	10 7	U10 3S	9 0	U7 8F	F	8 2F	F	4
10 9H	10 8	10 7	11 1	11 5	U11 8S	U11 7SH	10 6	U9 8S	F	F	U9 2F	5
10 8	10 4	10 4	10 6	U11 1R	11 2	11 2	U10 3R	U8 5F	F	U9 6F	U10 4F	6
11 8	10 6	10 4	10 7	11 5	11 5	11 0	10 2	9 2F	F	F	F	7
10 0	10 0	9 7	10 0	10 1	9 8	U9 4S	8 7	F	7 7	F	F	8
9 7	9 9	10 3	10 6	10 9	11 1	U10 9S	S	F	F	F	F	9
12 2	10 8	10 4	10 0	10 4	10 8	11 1	U9 7S	F	F	F	F	10
U12 OR	12 1	12 2	11 8	11 7	12 3	12 3	U11 6S	U10 1F	F	F	F	11
10 8H	11 2	10 8	10 6	10 8	11 0	U11 0S	10 2	9 3	9 1F	U9 7S	U9 1S	12
10 3	11 0	11 6	11 8	12 2	12 1	12 5	U11 6R	U9.7FS	U9 6F	F	F	13
10 6	10 9	U11 3R	11 4	12 3	13 1	12 8	J12 1RS	10 4	F	F	F	14
10 4	J11 2R	12 1	12 8	13 1	13 0	12.6	U11 7S	9 8F	U8 9F	F	J8 1S	15
10 6	C	C	C	12 4	12 8	12 7	F	F	F	F	F	16
9 8	10 2	C	C	11 0	11 5	11 3	10 5	U8 9F	U8 2F	F	C	17
C	C	C	C	12 4	13 0	12 3	11 2	U9 2F	F	F	F	18
10 6	10 2	9 9	C	11 1	12.0	U11 6S	J10 2R	8 6	U8 3F	F	F	19
10 6	10 8	11 6	12 3	12 2	12 0	U11 8S	F	F	F	F	F	20
11 7	11 8	11 6	11 8	11.9	11 6	J11 8S	12.5	10 9	9.9	8 8	9 0	21
12 6	13 0	13 2	13 0	U12 2R	12 0	10 8	9 8	F	F	F	F	22
11 4	11 6	11 6	11 2	10 8	11 4	11.5	10 7	U9 4F	F	F	F	23
11 0	11 3	11 6	11 8	12 2	12 0	12 1	11 4	U9 8F	10 9	U11 7S	10 8	24
12 0	11 8	11 8	C	11 0	11 1	11 4	10 9	9 2	F	F	F	25
10 9	11 3	11 0	10 7	10 0	9 9	U9 9S	U9 8S	9 2	8 8	F	F	26
10 7	10 8	11 1	11 1	10 8	10 7	11 0	10.6	9 3	F	U9 0F	F	27
10 0	10 1	10 7	11 1	11 0	11 3	11 6	10.5	F	U7 6F	F	F	28
12 5	12 9	11 8	11 3	11 3	11 0	11 2	10 3	9 5	8 8	U8 6W	U9 0F	29
10 6	C	10 6	11 0	11 7	12 3	12.7	U12 0S	10 7	U10 2F	F	F	30
29	27	27	25	30	30	30	27	23	14	9	9	Count
10 8	10 9	11 1	11 2	11.4	11 6	11.6	10 6	9 4	9 0	U9 6	U9 2	Median
11 0	11 0	11 1	11 2	11 4	11 6	11 5	10 7	9 5	9 1	49 5	U9 5	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic . foF2
 Unit · Mc
 Month June 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	U7 2S	U6 0S	5 0	4 1F	3 5	6 9	11 1	11 3	12 4	14 4	13 6	U11 3W
2	U8 8F	U8 7F	F	F	F	8 3	10 5	10 9	11 6	U11 4R	10 6	10 1
3	10 9	U10 2F	9 2F	U8 5F	7 0	7 4	10 1	11 8	12 8	13 1	12 6	11 6
4	F	F	F	F	F	U7 4F	10 1F	11 6	12 4	12 0	11 1	10 8
5	8 9	9 3	9 2F	F	C	9 0F	11 4	12 4	13 0	12 7	11 3	10 7
6	F	F	F	F	8 4	8 4	10 8	11 8	12 4	12 1	10 9	10 8
7	F	F	F	9 6	6 2	6 6	10 0	11 5	11 9	12 4	12 3	11 9
8	F	U6 8F	F	F	F	8 3F	11 0	C	12 6	12 5	11 0	10 2
9	F	F	F	F	F	7 4	10 5	12 0	12 4	12 0	10 3	9 8
10	F	F	8 6	7 7	7 3	6 8	8 9H	10 2	12 1	13 1	12 8	12 5
11	8 5	8 4	U8 6F	7 8	17 1S	8 5	10 6	12 0	12 1	13 1	13 0	12 4
12	F	F	Fs	Fs	8 1	8 5	U10 1S	11 5	11 8	11 0	10 5	10 5H
13	8 4	F	F	Fs	7 3	7 8	10 6	11 5	U11 1R	10 2	9 9	10 3
14	F	F	F	F	U8 8t	8 2	10 5	11 4	11 6	10 7	10 4	10 5
15	F	F	F	U8 2R	6 5	6 2	U9 8S	11 4	11 1	10 1	10 3	10 2
16	6 9	6 4	6 6	6 9	6 4	5 8	8 8	10 4	10 9	10 7	10 8	C
17	U7 8F	U7 1F	6 8	6 6	6 5	6 8	9 2	11 0	10 9	C	9 5	9 8
18	F	F	F	5 9	5 4	U6 2R	8 9	10 6	11 6	C	C	C
19	F	U6 6F	5 8	U6 1S	U6 2S	6 1	9 0	10 8	11 2	11 4	10 8	10 3
20	F	F	F	F	F	U7 4F	10 2	11 5	11 8	12 0	11 8	10 8
21	F	F	F	F	5 9	6 7	9 9	10 7	10 6	10 7	11 3	11 6
22	U5 3S	4 5	4 1	4 3	3 2	5 2	8 2	10 1	11 5	11 2 2R	11 8	12 3
23	F	F	F	F	1 8	6 2	9 8	11 4	12 1H	12 0H	11 3	11 1
24	F	F	F	F	F	7 3	10 2	11 0	11 2	10 6	10 6	10 7
25	9 2	U9 1R	9 0	9 0	7 2	7 3	9 8	11 3	11 8	12 1	12 2	11 8
26	F	F	F	F	10 3F	7 1	10 2	U11 7S	12 1	12 3	11 5	11 0
27	F	F	F	F	8 4	7 6	10 4	11 1	11 8	11 5	10 6	10 6
28	F	F	F	7 0	U5 3S	5 7	9 1	10 4	9 8	9 5	9 7	10 0
29	F	F	F	U6 2F	U5 4S	6 6	9 8	11 1	C	13 4	13 2	12 5
30	9 0	8 5	U7 4S	6 2	5 1	5 9	U9 5S	12 0	12 6	12 7	11 4	10 8
Count	11	12	11	15	23	30	30	29	29	28	29	28
Median	8 5	U7 8	7 4	6 9	6 4	7 2	10 1	11 4	11 8	12 0	11 1	10 8
Mean	8 3	U7 6	7 3	6 9	6 4	7 1	10 0	11 2	11 8	12 2	11 3	11 0

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds

Characteristic foF2
Unit Mc
Month June 1958

TABLE 56—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
11 2	11 6	11 4	11 4	12 1	12 6	12 3	U11 0R	10 6	10 6	10 1	F	1
10 1	9 6	9 9	10 1	10 0	U9 6s	U9 7s	9.0	8 7	9 5	U10 2F	10 7	2
11 2	11 2	11 6	11 7	11 8	12 1	U11 8s	U10 6F	F	F	F	F	3
10 6	10 5	10 6	11 1	10 7	10 5	U9 9s	8 5	F	8 01	8 4V	U8 4F	4
11 0	10 7	10 8	11 3	11 9	U11 8H	U11 3R	10 0	U9 2F	F	F	F	5
10 5	10 3	10 4	10 9	11 2	11 4	10 8	U9 5s	F	F	U9 9F	F	6
11 2	10 5	10 3	11 1	11 6	11 2	10 7	9 5	8 9	F	U9 4F	F	7
10 0	9 8	9 9	10 1	10 0	9 5	U9 2s	7 9	U7 5F	F	F	F	8
9 8	10 0	10 5	10 8	11 0	11 1	S	F	F	F	F	F	9
U11 5W	10 6	10 1	10 2	10 6	11 3	10 7	F	U8 0F	F	F	Fs	10
12 0	J12 1s	12 0	11 8	12 1	12 5	12 1	10 8	F	F	F	F	11
11 0	11 2	10 6	10 7	10 9	U10 9s	U10 8s	9 2	9 2	U9 5s	9 4	8 6	12
10 7	11 1	11 6	11 8	12 3	12 3	J12 3s	U10 2F	F	F	F	F	13
10 8	11 2	11 3	11 7	12 8	U12 8R	13 0	11 0	ES	F	F	F	14
10 8	11 7	12 6	13 0	13 0	12 8	12 3	10 6	9 2	F	U8 6s	7 6	15
10 8	C	C	C	12 6	12 8	U12 0s	F	F	F	F	F	16
10 0	10 6	C	C	11 3	11 4	11 2	U9 6s	8 6	F	F	F	17
C	C	C	12 0	13 0	12 6	J12 2R	U10 4F	U8 6F	F	F	F	18
10 3	10 0	10 0	10 5	U11 6s	12 0	11 2	9 3	8 5	F	F	F	19
10 4	11 2	12 3	12.2	U11.9s	12 0	11 2H	F	F	F	F	F	20
11 7	11.8	11 6	11 8	11.6	11 6	12 2	U11.6s	10 3	9 2	J9 1s	7 7	21
12 9	12.9	13 1	U12 6R	12 2	11 5	10 5	U9 0F	F	F	F	F	22
11.5	11 6	11 5	10 8	11.3	U11 5s	11 2	9 8	U8.8F	F	F	F	23
11 2	11 4	11 6	12 0	12 1	12 2	U11 7s	10 6	J10 2R	U11 8s	11 4	10 3	24
11 8	11 7	C	10 9	11 0	11 2	11.4	9 8	8 6	F	F	F	25
10 9	11 3	10 9	10.4	9 9	10 3	U10 1s	U9 6s	8 9	8 8	F	8 1	26
10 8	10 9	11 0	11.0	10 6	10 8	11 0	10 0	9 4F	F	F	F	27
10 1	10 5	10 9	11 2	11 1	11 5	U11 3s	U9 6s	8 2	F	F	F	28
12 9	12 4	11 6	11 2	11 1	11 2	U10 2s	10 1	9 0	8 6	U8 6W	8 8	29
10 5	C	10 8	11 3	12 0	12 7	12 4	U11 1R	10 6	F	F	F	30
29	27	26	28	30	30	29	26	20	8	10	8	Count
10 8	11 2	11.0	11 2	11 6	11 5	11 2	9 9	8 9	9 4	U9 4	8 5	Median
11 0	11.1	11 1	11 3	11 5	11.6	11 3	9 9	9 0	9 5	U9 5	8 8	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foF1
Unit . Mc
Month . June 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	C	B	L
7									L	L	L	L
8									L	L	L	L
9									L	L	L	L
10									L	L	L	L
11								L	L	LH	L	L
12								LH	L	L	L	L
13								L	L	L	L	L
14								L	L	L	LH	L
15								L	L	L	C	L
16								L	L	L	L	LH
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
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	LH
28								L	L	LH	LH	LH
29								L	L	L	L	L
30								L	L	L	LH	L
Count												
Median												
Mean												

Sweep 1 0 Mc. to 25 0 Mc in 27 seconds

Characteristic foF1
 Unit Mc
 Month June 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	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	L	L	L	L	L							10
LH	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
LH	L	L	L	L	L	L						15
LH	C	C	C	L	L							16
L	L	C	C	L	L							17
C	C	C	C	LH	L							18
L	L	L	L	L	L							19
LH	LH	LH	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	LH	L	L	L	L							26
L	L	L	L	LH	LH							27
LH	L	L	L	L	L							28
L	L	L	L	LH	L							29
E	C	L	L	A	L							30
		I										Count
												Median
												Mean

Sweep 10 Mc to 250 Mc in 27 seconds

Characteristic foF1
 Unit Mc
 Month June 1958

TABLE 57—*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
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	LH	L	L	L
12								LH	L	L	L	L
13							L	L	L	L	L	L
14								L	L	L	L	L
15							L	L	L	L	L	L
16								L	L	L	LH	C
17								L	L	L	L	L
18							..	L	L	L	L	L
19							..	L	L	L	L	L
20							L	L	L	L	L	LH
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	L
25								L	L	L	L	L
26							..	L	L	L	L	LH
27								L	L	L	LH	L
28							..	L	L	LH	LH	LH
29								L	L	L	L	L
30								L	L	LH	LH	L
Count												.
Median												
Mean												..

Sweep 10 Mc to 25 Mc in 27 seconds

Characteristic foF1
 Unit . Mc
 Month June 1958

TABLE 57—*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	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
LH	LH	L	L	L	.							7
L	L	L	L	L	.							8
L	L	L	L	L	.							9
LH	L	L	L	L	.							10
L	L	L	L	A	.							11
L	L	LH	L	L	.							12
L	L	L	L	L	.							13
L	LH	LH	L	A	.							14
LH	L	6 3H	L	L	L							15
LH	C	C	C	L	.							16
L	L	L	LH	L	.							17
C	C	C	L	L	.							18
L	L	L	L	L	.							19
LH	LH	LH	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	C	L	L	.							25
LH	u6 5LH	u6 2L	L	L	.							26
LH	L	L	L	LH	.							27
LH	L	L	L	L	.							28
L	u6 4L	u6 3L	L	LH	.							29
L	C	L	A	L	.							30
	2	3										Count
												Median
			.		.							Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foE
Unit . Mc
Month : June 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							2 3	3 1	3 6		A	A
2							2 3	A	A	4.0	A	A
3							2 5H	3 1H	A	B	A	A
4								A	A	A	A	A
5								3 1H	A	A	A	A
6							2 5H	3 2	A	C	B	B
7							2.3	3 2	R	R	A	A
8								A	A	A	A	A
9							C	A	A	A	A	A
10							2 2	A	3.6	A	A	B
11							2 2H	A	A	A	A	B
12							2 1H	3 0H	A	A	A	A
13								A	A	A	A	A
14							2.3H	U3.1A	A	A	A	A
15							U2 4R	3 0	A	A	C	A
16							R	A	A	A	A	A
17							2 2H	A	A	C	C	A
18							2 2H	A	A	A	C	A
19								A	A	A	A	A
20							R	3 0	3.4	A	A	A
21								2 6	3 5H	U3 5A	A	A
22							2.1	3 0	3.5	A	A	A
23								2 9	A	A	A	A
24							R	A	A	A	A	A
25								3.0	A	A	A	A
26							2.2	A	B	B	B	A
27								A	A	A	A	A
28								A	A	A	A	A
29								U3 1A	A	A	A	A
30							R	A	A	A	A	4.0 A
Count							14	14	5	2		1
Median							2.2	3.0	3.5			
Mean							2.3	3.0	3.5			

Sweep 1 0 Mc to 25 0 Mc in 27 seconds.

Characteristic · foE
 Unit : Mc
 Month June 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	Λ	Λ	Λ	Λ	A							1
A	Λ	Λ	Λ	Λ	Λ							2
A	Λ	Λ	Λ	Λ	3 5							3
A	Λ	Λ	Λ	Λ	Λ							4
A	Λ	B	Λ	Λ	Λ							5
Λ	Λ	Λ	Λ	Λ	Λ							6
A	Λ	Λ	B	R	Λ							7
A	Λ	Λ	Λ	Λ	Λ							8
Λ	Λ	Λ	Λ	Λ	Λ							9
A	Λ	Λ	Λ	Λ	Λ							10
A	A	Λ	Λ	Λ	Λ							11
A	A	Λ	Λ	Λ	Λ							12
Λ	A	Λ	Λ	Λ	U3 0R							13
A	A	Λ	Λ	Λ	Λ							14
A	A	R	U3 9R	U3 5R	3 I							15
A	C	C	C	Λ	Λ							16
A	C	C	C	R	Λ							17
A	C	C	C	B	Λ							18
A	Λ	Λ	Λ	Λ	Λ							19
A	Λ	Λ	Λ	Λ	3·4							20
A	Λ	Λ	Λ	Λ	Λ							21
A	Λ	Λ	Λ	Λ	Λ							22
Λ	Λ	Λ	Λ	Λ	Λ							23
Λ	Λ	Λ	Λ	Λ	Λ							24
Λ	Λ	Λ	Λ	Λ	Λ							25
Λ	Λ	Λ	Λ	Λ	Λ							26
Λ	Λ	Λ	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
		I	3	4	3	I						Count
												Median
												Mean

Sweep 1 0 Mc. to 25 0 Mc in 27 seconds.

Characteristic . foE
 Unit . Mc
 Month June 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							2 8	A	A	A	A	A
2							A	3 3	A	A	A	A
3							2 7 ^H	U3 4 ^A	A	A	A	A
4							A	A	A	A	A	A
5							3 0	3 4 ^H	A	A	A	A
6							2 9	3 5	A	A	B	B
7							2 9	3 5	R	R	A	A
8							2 7	C	A	A	A	A
9							2 7	A	A	A	A	A
10							2 8	3 3	4 0	A	A	A
11							2 7 ^H	A	A	A	A	A
12							2 6 ^H	A	A	A	A	A
13							A	A	A	A	A	A
14							2 9 ^H	A	A	A	A	A
15							U2 8 ^A	U3 3 ^A	A	A	A	A
16							2 8	A	A	A	A	C
17							2 6	A	A	C	A	A
18							2 7 ^H	A	A	C	A	A
19							2 6	B	A	A	A	A
20							2 8	3 3	A	A	A	A
21							2 7 ^H	3 1 ^H	A	A	A	A
22							2 6	3 2	A	A	4 0	A
23							A	3 2	A	A	A	A
24							A	A	A	A	A	A
25							2 8	3 4	A	A	A	A
26							2 7	3 1	B	B	A	A
27							A	A	A	A	A	A
28							A	A	A	A	A	A
29							2 6	A	C	A	A	A
30							A	A	A	A	A	A
Count							22	13	1	.	1	.
Median							2 7	3 3				
Mean							2 7	3 3		..	.	

Sweep 1 0 Mc to 25 0 Mc. in 27 seconds

Characteristic . foE
Unit . Mc
Month . June 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	A							1
A	A	A	A	A	A							2
A	A	A	A	A	3 ¹							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	B	R							7
A	A	A	A	A	A							8
A	A	A	A	B	R							9
A	A	A	A	A	A							10
A	A	A	A	A	A							11
A	A	A	A	A	A							12
A	A	A	A	A	2 ⁷							13
A	A	A	A	A	A							14
A	R	U3.8R	U3 ^{2R}	B	3 ⁰							15
A	C	C	C	A	A							16
A	A	C	C	A	A							17
A	C	C	C	3 ⁶	A							18
A	A	A	A	A	A							19
A	A	A	A	B	A							20
A	A	A	A	A	A							21
A	A	A	A	A	A							22
A	A	A	A	A	A							23
A	A	A	A	A	A							24
A	A	A	A	U3 ^{7A}	A							25
A	A	A	A	A	A							26
A	A	A	A	A	A							27
A	A	A	A	A	A							28
A	A	A	A	A	A							29
A	C	A	A	A	A							30
	I	I	4	3	.							Count
			.	..	.							Median
.	.		.	..	.							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic · foEs
 Unit . Mc
 Month . June 1958

TABLE 59
 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							6 5	G	G	12 0	12 0	11 0
2		1 9					7 0	8 1	10 0	11 0	12 0	11 8
3							G	6 1	8 8	9 0	11 0	11 6
4	7 0							8 8	11 0	11 0	12 0	12 4
5								G	8 6	10 0	11 6	11 6
6	2 1	2 7	3 8				G	G	8 0	C	B	11 4
7	4 2		3 4				4 8	G	G	G	11 0	11 0
8		2 3	3 4	3 0				6 0	8 6	10 4	12 0	12 0
9							C	10 0	11 2	10 8	11 6	12 0
10							G	8 0	G	10 0	12 0	11 2
11							G	09 6s	8 6	11 1	12 1	11 0
12		2 3					G	07 0s	10 6	11 1	12 0	12 0
13		3 6						8 5	10 1	11 0	11 8	12 0
14		3 1					G	6 6	9 6	11 2	12 0	12 0
15							3 5	5 2	10 0	11 3	C	11 6
16							G	8 0	9 6	10 2	12 0	11 6
17							G	7 0	10 0	C	C	11 1
18	2 4						G	4 2	9 0	9 4	C	C
19		4 4	4 6					6 4	12 0	10 2	12 0	11 6
20		6 2	2 9				G	3 3	3 4	9 0	11 1	12 0
21	3 0	3 3						6 4	G	7 4	9 8	11 0
22		9 2	5 6				G	G	G	9 6	10 2	11 2
23	2 6						2 6	3 6	8 2	10 0	11 1	10 6
24	3 6		3 8	6 8	10 8		S	10 4	8 8	10 8	11 5	11 6
25	6 7						7 5	7 7	8 2	10 4	8 4	11 0
26	3 4						G	G	G	10 2	11 4	11 8
27								9 0	10 6	10 0	11 0	11 0
28		3 0					9 0	8 6	9 6	10 0	11 2	11 2
29							G	7 6	11 2	11 0	11 0	9 4
30							G	8 2	9 2	9 2	10 4	10 8
Count	9	11	7	2	1		20	30	30	28	26	29
Median	3 4	3 1	3 8					6 8	8 9	10 2	11 6	11 6
Mean	3 9	3 8	3 9	.	.		5 8	7 3	9 3	10 3	11 3	11 4

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic · foEs
 Unit · Mc
 Month : June 1958

TABLE 59
 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
12 0	12 0	11 6	10 6	8 6	8 0						3 8	1
12 2	12 0	11 4	11 6	8 0	6 6							2
12 0	12 0	12 2	11 0	8 0	7 0	7 0						3
12 0	12 0	12 0	12 0	9 6	8 0				2 3			4
12 2	12 0	10 6	11 0	8 6	8 0	2 8						5
11 4	12 0	11 2	11 0	8 0	11 4					4 2		6
9 6	12 0	11 0	G	C	4 0					4 2		7
11 0	11 4	11 0	11 0	9 0	7 8					4 0		8
12 0	11 6	11 8	11 0	8 0	7 0	2 6				3 8		9
11 6	11 8	11 4	11 0	8 6	8 6	9 0						10
11 8	12 2	11 6	10 9	11 6	U10 7s	U7 4s						11
11 4	12 0	12 1	11 6	8 8	8 6	U6 5s	3 0	6 8	4 1	3 1		12
11 5	10 8	10 0	8 4	G	U8 0s							13
11 4	11 6	10 6	9 8	9 1	10 8	U7 6s				3 8		14
9 8	G	G	G	G	G							15
11 4	C	C	C	8 0	7 0							16
11 4	11 0	C	C	G	4 2	5 6					C	17
C	C	C	C	G	6 4				3 3	2 2	2 6	18
11 6	11 4	10 8	C	11 0	12 4	6 0	3 4		3 4			19
11 6	10 0	8 6	8 0	G	8 0							20
11 4	11 5	10 5	6 8	7 8	8 4	U6 6s	5 8	3 5		U5 0s		21
11 0	10 4	10 8	8 6	8 4	7 0						U6 0s	22
11 4	11 4	11 6	11 2	8 4	6 8	S						23
11 0	10 6	10 5	10 2	6 8	10 8	U7 6s	2 6	2 7		3 9	5 1	24
11 4	11 6	11 4	C	8 3	8 4	G				2 4	S	25
10 0	10 4	10 6	10 6	7 6	7 0	5 8				5 6	7 0	26
11 6	12 6	13 0	12 6	8 6	7 0	U6 0s	2 4		2 8	2 8	3 8	27
11 6	9 0	12 0	11 0	7 6	11 0					2 3		28
13 0	12 2	12 0	11 0	11 0	7 6	7 0F						29
11 0	C	11 0	11 2	13 0	5 6	8 0	2 7		2 8	3 4	5 4	30
29	27	27	25	30	30	16	5	3	6	14	8	Count
11 4	11 6	11 2	11 0	8 2	7 9	6 6	2 7	.	3 0	3 8	4 4	Median
11 4	11 4	11 2	10 5	8 8	8 0	6 4	3 4		3 6	3 7	4 6	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs
 Unit : Mc
 Month . June 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							G	10 0	6 0	11 8	12 0	12 0
2							7 8	G	11 0	12 0	12 0	12 0
3							G	6 8	9 8	11 0	12 0	12 2
4	3 4							9 8	11 0	12 0	12 1	12 0
5							C	6 8	10 6	11 8	12 2	12 0
6	5 0	2 6					G	G	11 0	10 0	10 6	11 0
7							G	G	G	6 2	11 6	9 0
8		4 2	6 0	3 8			6 6	C	10 0	11 8	12 0	12 0
9			2 6				G	11 6	10 0	11 0	11 6	12 0
10	5 6						G	G	G	12 0	11 8	12 0
11							4 5	10 3	10 6	11 9	11 8	11 7
12		4 1					G	9 3	11 0	11 7	11 6	11 3
13		2 5	3 2				8 0	9 6	10 8	11 3	11 5	11 6
14							G	8 7	10 1	12 0	11 9	11 8
15							4.2	8 5	10 8	12 0	12 1	12 4
16							5 6	9 0	10 0	11 2	11 4	C
17							G	8 4	10 0	C	11 4	11 6
18							G	7 0	9 0	C	C	C
19	6 6						G	9 0	9 4	12 0	12 0	11 6
20	3 6	2 3	3 6				6 0	3 4	8 4	11 0	11 6	11 6
21		3.3					G	G	8 8	11 4	9.6	10 8
22	7 0		4 4				10 7 ^s	4 4	10 2	11 2	9 2	11 8
23							3 6	G	10 4	11 6	11 4	11 6
24	3 2		3 9	7 6		6.6	6.8	10 0	10 6	11 6	11 6	11 8
25	1 4						6 5	8 0	8 4	11 0	9.7	11 4
26	2 3						G	G	9 6	11 0	11 6	10.1
27		4 0					10 0	11 0	9 4	9 8	11 0	11 5
28		2 7					8 6	9 0	9 6	11 0	11 4	11 4
29	4 0						G	8 6	C	11 4	11 2	12 4
30							5 6	10 0	11 0	11 0	11 2	11.0
Count	10	8	6	2		1	29	29	29	28	29	28
Median	4 2	3 0	3 8				G	8 5	10 0	11 4	11 6	11.6
Mean	4 5	3 2	3 9				6.5	8 6	9 9	11 3	11 4	11 5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic foEs

TABLE 59—cont'd

Latitude : 10°2' N

Unit . Mc

Ionospheric Data

Longitude : 77°5' E

Month June 1958

75 0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.0	12.0	12.0	9.0	8.0	6.0	2.2			2.6	3.8	3.8	1
11.6	12.0	12.0	9.0	8.0	6.0				3.0	4.0	4.0	2
12.0	11.6	11.6	10.0	6.6	7.8							3
12.0	11.4	12.0	10.0	8.6	7.4							4
12.0	12.0	12.2	9.0	8.0	4.0							5
11.8	11.0	11.6	9.0	7.6		6.0			4.0	3.4	6.0	6
12.0	11.8	11.0	G	G	8.0							7
11.0	12.0	11.2	8.6	8.8	7.0				2.6	3.4		8
12.0	12.0	11.0	8.0	G	7.0				3.4	3.6		9
12.0	11.2	12.0	9.0	8.0	8.0							10
12.0	11.8	11.15	9.8	11.6	v8 os	S						11
11.7	12.0	11.8	10.1	8.8	v7 6s	v4 6s	3.6	v6.2s	4.9	3.2		12
11.2	10.4	9.4	7.0	G	v7 os				3.3			13
11.3	11.0	10.0	7.6	9.6	8.4				3.3	2.9		14
11.3	G	G	B	G								15
11.6	C	C	C	9.6	6.0							16
11.4	11.0	C	C	3.4	6.2	2.4					2.6	17
11.4	C	C	G	7.2	v3 6r						3.2	18
11.6	11.4	10.4	10.4	12.4	8.0	4.6		3.3	6.4		3.4	19
11.0	8.8	9.0	6.0	8.0	7.0						2.4	20
11.6	11.2	9.4	7.8	8.6	9.3	S	S	8.0	2.0		3.0	21
10.8	10.2	10.5	8.3	8.2	S							22
11.2	11.6	11.4	8.3	7.7	8.2					4.4		23
11.0	10.4	10.6	7.8	9.6	13.4	2.5	2.5	6.5		5.6	S	24
11.8	11.6	C	8.6	8.0	S					4.8	4.3	25
10.0	10.6	10.8	8.6	7.8	3.6	v4 4s			4.6			26
11.8	13.4	12.2	11.6	7.0	6.0	v5 os				3.8		27
11.6	12.4	12.4	8.1	8.6	8.0					3.4		28
10.0	11.4	11.2	11.0	8.2	8.0	4.0				2.9	8.8	29
11.0	C	10.2	12.6	7.0	8.2	4.0						30
11.5	11.4	11.1	9.0	8.3	7.2	4.0			3.7	3.8	4.2	Mean
11.6	11.4	11.2	8.6	8.0	7.4	4.2			3.4	3.4	3.6	Median
29	27	26	27	30	25	10	2	4	10	11	10	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic fbEs
Unit : Mc
Month June 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							2 3			7 0	4 2	4.4
2		1 9					2 3	3 0	3 7	4 0	4 2	4.4
3								3 2	3 8	4 2	4 4	4.6
4	2 0							3 5	3 9	4 2	4 5	4.6
5									3 9	4 2	4 4	4.6
6	2 0	2 0	2 3						4 0	C		4.8
7	2 6										4 3	4.5
8			2 0	2 2				3 0	3 7	4 1	4 2	4.5
9							C	4 1	4 3	4 1	4 3	4.5
10								3 2		4.3	4.3	
11								3 4	4 0	4 2	4 3	4.5
12		1 8						3 1	3 6	4 1	4 2	4.4
13		2 1						3 0	3.5	4 0	4 2	4.3
14		1 8						3.1	3 6	4 0	4.3	4.5
15							2 3	3.0	3 7	4 2	C	4.4
16								3 0	3 6	4 0	4 0	4.4
17								3 0	3 6	C	C	4.4
18	2 0							3 0	3 6	3 9	C	C
19			2.0					3 0	4 2	4 0	4.4	4.4
20		1 6								4 0	4 2	4.4
21	2.8	2 2						3 1		4 0	4.2	4.4
22		2 7	2 2							4 2	4 2	4.4
23	2 2							2 4	3 0	3 6	4 2	4.4
24					2.6			3 5	3.6	4 1	4.3	4.4
25	2 8							3 1	3 6	4.1	4 2	4.4
26	2 4											4.6
27								4 0	4.1	4 1	4 4	4.6
28								3 1	3 6	4.1	4.4	4.4
29								3 0	4 4	5 0	4 4	4.4
30								3 2	4 0	4 0	4 3	4.6
Mean	2 4	2 0					2 6	3 2	3 8	4 2	4.3	4.5
Median	2 3	2 0					2 3	3 1	3 7	4 1	4 3	4.4
Count	8	8	4	1	1	.	5	23	23	26	25	28

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic fbEs
 Unit Mc
 Month . June 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	Date
4.5	4.4	4.2	3.8	3.6	3.0						1.9	1
4.6	4.4	4.2	3.8	3.5	3.0							2
4.6	4.6	4.3	4.0	3.6	3.0	2.6						3
4.5	4.4	4.3	4.0	3.6	3.0				2.0			4
4.7	4.6		4.1	3.6	3.1	2.4						5
4.6	4.5	4.4	4.0	4.0	5.0					2.2		6
4.6	4.4	4.5			3.2					2.2		7
4.5	4.4		4.0	3.6	3.0					2.1		8
4.5	4.7	4.4	4.0	3.6	3.0	2.3				2.0		9
5.0	4.4	4.1	3.9	3.5	3.0							10
4.6	4.3	4.1	3.8	5.2	3.4	2.4						11
4.5	4.8	4.3	4.0	3.8	3.3	2.3		1.9	2.0	1.8	1.9	12
4.4	4.2	4.1	4.0		3.0							13
4.5	4.3	4.2	3.8	4.4	5.0	2.7				2.1		14
4.5												15
4.6	C	C	C	3.4	3.0							16
4.4	4.3	C	C		3.0	2.4					C	17
C	C	C	C		3.0				2.2	2.0	2.2	18
4.6	4.4	4.2	C	4.8	7.0	2.4	2.4					19
4.6	4.4	4.2	3.8		3.0							20
4.6	4.6	4.1		3.6	3.1	3.0	3.2	2.3				21
4.4	4.3	4.2	3.7	3.6	3.0						2.8	22
4.5	4.6	4.3	4.0	3.6	3.0	2.0						23
4.4	4.4	4.2	3.7	3.6	4.2	2.7	1.9	2.2			3.0	24
4.5	4.4	4.3	C	3.6	3.0					2.2	2.7	25
4.6	4.4	4.4	4.0	3.6	3.0	2.6					2.4	26
4.6	5.0	5.1	4.6	3.9	3.1	3.5			2.2	2.2	2.8	27
4.6	4.4	5.0	4.0	3.7	4.2							28
5.6	6.0	4.1	4.0	4.2	3.2	2.8						29
4.6	C	4.3	4.3	6.2	3.0	3.2			2.0	2.2	2.4	30
4.6	4.5	4.3	4.0	3.9	3.4	2.6			2.1	2.1	2.5	Mean
4.6	4.4	4.2	4.0	3.6	3.0	2.6			2.0	2.2	2.4	Median
29	26	24	22	24	29	15	3	3	5	10	9	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic f_oF₂
 Unit Mc
 Month June 1958

TABLE 60—contd.
 Ionospheric Data
 75°0'E Mean Time

Latitude 10°2'
 Longitude : 77°5'

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								3.4	4.8	4.2	4.4	4.4
2							2.8		3.8	4.2	4.4	4.6
3								3.5	4.0	4.2	4.3	4.5
4	2.0							3.6	4.0	4.3	4.6	4.5
5								3.6	4.3	4.4	4.4	4.6
6	2.3	2.4							4.2	4.2	4.8	4.6
7										5.0	4.4	4.5
8		2.2	2.4	2.2			2.7	C	4.0	4.2	4.4	4.4
9			2.1					4.5	3.8	4.1	4.4	4.6
10	2.1									4.2	4.4	4.4
11								2.8	4.3	4.1	4.2	4.5
12		2.1						3.5	3.9	4.3	4.3	4.4
13		2.1	1.9				2.7	3.3	3.9	4.1	4.3	4.4
14								3.4	3.8	4.1	4.3	4.6
15							2.9	3.5	4.0	4.3	4.3	4.4
16								3.4	3.9	4.0	4.2	C
17								3.3	3.8	C	4.4	4.4
18								3.3	3.7	C	C	C
19	2.5								4.0	4.2	4.3	4.4
20	2.2		1.8						3.8	4.0	4.3	4.5
21		2.2							4.1	4.0	4.4	4.5
22	3.0		2.1				2.7		3.8	4.1	4.4	4.6
23							2.8		3.8	4.1	4.3	4.4
24			2.1	2.8			2.8	3.4	4.0	4.1	4.4	4.3
25	2.9							3.4	3.8	4.2	4.4	4.5
26											4.8	4.6
27							4.0	4.2	4.0	4.2	4.1	4.6
28		1.9					3.0	3.4	3.9	4.2	4.5	4.6
29								6.0	C	4.3	4.4	5.4
30							2.8	3.4	4.3	4.2	4.4	4.4
Mean	2.4	2.2	2.1				2.9	3.6	4.0	4.2	4.4	4.5
Median	2.3	2.2	2.1				2.8	3.4	4.0	4.2	4.4	4.5
Count	7	6	6	2			10	19	26	27	29	28

Sweep 10 Mc. to 250 Mc. in 27 seconds

Characteristic : fbEs
 Unit . Mc
 Month June 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 4	4 0	3 8	3.6					2 2		1.9	1
4 5	4 3	4 0	4 0	3 2	2 5	1 9			2.2		2.4	2
4 6	4 6	4 2	3 8	3 2	3 2							3
4 5	4 4	4 2	3 8	3 2	2 6							4
4 8	4 6	4 4	3 8	3 5	2 6							5
4 6	4 4	4 2	3 8	3.4		2 2			2 7	2.2		6
4 5	4 5	4 2			3 0						2 6	7
4 4	4 3	4 5	3 8	3 2	2 5				2 3	2.0		8
4 4	4 4	4 2	4 2		3 0				2 5	2 2		9
4 5	4 4	4 0	3 7	3.3	2 6							10
4 5	4 4	4 2	4 0	3 8	6 1	2 8	1 8					11
4.7	4 4	4 2	3 8	4 3	2 6	2 0	1 7	2.0	2 1	1 8		12
4.4	4 3	4 0	3 9		2 7							13
4.5	4 3	4 0	3 8	1 8	3.7				2.1	2.1		14
4.5												15
4 6	C	C	C	3.2	2 6							16
4.4	4 2	C	C	3 2	2 6	2.0					2 0	17
C	C	C		3 6	2 6						2 4	18
4 5	4 2	4 0	5 0	6 7	3.6	2 0			2.8		2.2	19
4.4	4 2	4 0		3 2	2.5						2.2	20
4.6	4.5	4 3	4 0	3 4	3 6	2.6	2.3	3.1				21
4.4	4 1	4 0	3 8	3.2							2 2	22
	4.5	4.1	3 9	3 3	2.8					2 3		23
4 4	4.3	4 0	3.9	4.1	4 6	2.0	1 9	3 0		2.6	3 0	24
4 5	4 4	C	4.0	3.4						2.7	2.4	25
4 6	4 4	4 1	3 9	3 3	2 6	2 3			2 0			26
4 5	5.2	4.5	5 0	3 4	3 0	2.4			2 6	2 4		27
4 6	4.6	4 6	3 8	4 0	3 0							28
5 4	4 5	4 4	4 0	3 4	3.0	2 2						29
4 6	C	4 2	7 2	3.4	2 8	1 8				2 2	2 3	30
4 6	4 4	4 2	4.1	3 6	3 0	2.2			2 1	2 2	2.3	Mean
4 5	4 4	4 2	3 9	3.4	2.8	2 1			2 2	2 2	2.3	Median
28	26	25	24	26	25	12	4	3	10	10	11	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic fmin
 Unit - Mc
 Month June 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	1.8	1.9	1.7	2.0	2.0	1.8	2.1	2.1	2.3	3.0	2.5	3.2
2	2.0	1.5	1.6	1.8	2.2	1.7	1.6	1.7	2.6	2.8	3.0	3.0
3	2.0	1.8	2.2	2.0	1.8	1.8	1.7	2.0	2.4	4.0	3.0	3.0
4	1.5	1.9	2.0	2.0	1.7	1.7	2.6	2.4	2.8	3.0	3.0	3.2
5	1.5	1.7	1.8	1.7	1.8	1.7	2.4	2.7	2.5	3.0	2.8	3.2
6	2.0	2.0	1.9	2.0	1.7	1.8	2.1	2.0	2.3	C	7.1	4.2
7	2.0	2.5	2.4	2.2	2.1	1.8	2.0	2.3	3.0	3.3	3.0	3.2
8	2.2	1.9	2.0	1.9	2.2	2.2	2.3	2.2	2.7	3.1	3.0	3.3
9	2.0	1.8	1.8	2.0	2.6	2.0	C	2.1	2.5	2.8	3.0	3.2
10	2.1	1.9	2.2	1.7	2.2	1.8	1.5	2.0	2.6	3.1	3.0	4.6
11	1.9	1.7	2.0	1.7	1.8	1.8	1.8	1.9	2.7	3.0	3.1	4.4
12	2.0	1.7	1.8	2.2	1.9	1.6	1.7	1.9	2.6	3.0	2.8	3.1
13	1.9	2.0	1.8	1.6	1.8	1.9	2.3	2.1	2.4	2.8	2.9	3.0
14	1.7	1.6	1.5	1.7	1.6	1.6	1.7	2.0	2.3	2.7	2.8	3.0
15	2.4	2.2	1.9	1.9	1.6	1.6	1.6	2.0	2.9	2.9	C	3.1
16	2.0	1.9	1.7	1.7	2.0	1.7	1.8	1.9	2.4	2.9	3.0	3.2
17	2.2	2.2	1.8	1.9	2.2	1.8	1.6	1.9	2.2	C	C	3.0
18	1.7	1.8	1.7	1.8	1.4	1.6	1.8	1.6	2.3	3.0	C	C
19	2.1	2.1	1.6	2.4	2.2	2.0	2.2	2.2	2.6	3.0	3.0	3.2
20	1.8	1.3	1.6	2.0	1.7	1.7	1.9	2.2	2.3	3.4	3.0	3.2
21	2.2	1.8	2.4	2.4	1.8	1.8	2.2	1.9	2.2	2.5	2.7	3.0
22	2.2	1.4	1.8	2.4	2.2	1.9	1.7	2.0	2.9	2.9	3.0	3.2
23	2.0	2.4	2.4	2.5	1.8	1.9	1.7	2.0	2.3	2.6	2.5	2.9
24	1.9	2.2	2.0	2.3	2.2	1.9	1.8	2.1	2.4	2.8	3.1	3.1
25	2.8	2.8	2.7	2.8	3.2	2.2	2.6	2.2	2.6	3.0	3.0	3.1
26	1.9	2.1	2.1	2.0	1.9	1.8	1.8	2.4	4.4	5.0	4.8	3.8
27	2.0	2.0	2.2	2.0	1.8	1.9	1.9	2.2	2.6	2.8	2.6	2.7
28	2.0	1.9	2.0	1.6	1.8	1.7	1.6	1.9	2.4	2.6	2.8	2.8
29	2.6	3.0	2.4	2.2	2.3	1.8	2.1	2.4	2.6	3.0	2.9	3.0
30	2.0	2.1	1.7	1.6	2.2	1.6	1.7	1.8	2.4	2.5	2.7	3.0
Mean	2.0	2.0	2.0	2.0	2.0	1.8	1.9	2.1	2.6	3.0	3.1	3.2
Median	2.0	1.9	1.9	2.0	1.9	1.8	1.8	2.0	2.5	3.0	3.0	3.1
Count	30	30	30	30	30	30	29	30	30	28	27	29

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic fmin
 Unit · Mc
 Month : June 1958

TABLE 61—*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
3.2	3.2	3.0	2.8	2.6	2.2	2.4	2.0	1.8	1.9	2.1	1.4	1
3.6	3.2	3.0	2.6	2.6	1.9	2.4	1.9	1.7	U2 2.8	2.3	1.9	2
3.2	3.2	3.0	2.6	2.8	2.1	1.7	1.9	1.9	2.0	1.9	2.0	3
3.2	3.0	3.0	2.7	2.7	2.2	2.1	2.1	2.0	1.6	2.4	1.8	4
3.4	3.0	5.6	2.6	2.6	2.4	2.4	1.9	1.7	1.8	1.8	2.2	5
4.0	3.4	3.4	2.7	3.0	2.3	2.2	2.0	2.0	2.6	1.8	2.2	6
4.0	3.2	3.1	4.4	3.2	2.6	2.2	1.7	1.8	2.2	2.0	2.4	7
3.2	3.3	5.4	3.0	2.6	2.1	2.0	2.3	2.0	2.0	2.0	2.0	8
3.3	3.2	3.0	2.7	3.0	2.0	2.2	2.1	2.1	1.9	1.8	2.2	9
3.2	2.8	2.8	2.5	2.6	2.0	1.9	1.8	2.0	1.7	1.8	2.0	10
3.0	3.1	2.9	2.5	2.3	2.1	1.6	1.6	1.8	1.9	1.8	2.1	11
3.4	3.5	3.0	2.5	2.5	2.2	1.7	1.7	1.7	1.4	1.7	1.8	12
3.2	3.0	2.7	2.6	2.5	2.4	2.3	1.7	2.1	2.0	2.1	1.9	13
3.2	3.2	2.8	2.6	2.4	2.3	1.4	1.8	1.9	2.1	1.5	2.1	14
3.4	3.3	3.2	3.2	2.7	2.5	2.3	1.7	2.1	2.2	2.3	1.9	15
3.4	C	C	C	2.5	2.3	2.0	1.8	2.0	2.1	2.2	2.2	16
3.4	3.0	C	C	2.8	2.0	1.5	1.5	2.2	1.8	1.9	C	17
C	C	C	C	3.6	2.0	2.3	2.2	2.0	1.6	1.4	2.0	18
3.4	3.2	3.0	C	2.7	2.0	1.6	1.6	2.0	1.8	1.7	1.8	19
3.2	3.0	3.0	2.6	2.6	2.0	2.2	2.0	2.0	2.0	2.2	2.2	20
3.1	3.0	2.8	2.6	2.5	2.1	1.7	1.7	1.7	2.0	2.0	2.0	21
3.1	3.0	3.0	2.6	2.4	2.3	2.2	1.5	2.0	2.0	2.0	1.5	22
3.2	3.8	3.0	2.8	2.7	2.2	1.8	1.6	2.2	2.0	2.2	2.3	23
3.0	2.9	2.8	2.6	2.3	2.0	1.8	1.5	1.6	2.5	2.4	2.6	24
3.3	3.4	3.1	C	2.7	2.4	1.8	1.6	1.8	2.2	1.5	2.2	25
3.2	3.8	3.1	2.8	2.7	2.2	1.6	1.8	1.8	2.0	1.5	1.8	26
3.0	3.1	3.0	2.6	2.4	1.9	1.6	1.7	1.9	1.5	1.8	1.9	27
3.0	3.0	3.0	2.6	2.3	2.2	2.0	1.5	2.2	2.2	1.8	2.4	28
3.2	3.2	2.8	2.5	2.5	2.1	1.6	1.6	1.9	1.9	2.3	1.9	29
2.9	C	2.8	2.6	2.3	1.9	1.5	1.8	1.9	1.5	1.8	2.0	30
3.3	3.2	3.2	2.7	2.6	2.2	1.9	1.8	1.9	2.0	1.9	2.0	Mean
3.2	3.2	3.0	2.6	2.6	2.2	2.0	1.8	2.0	2.0	1.9	2.0	Median
29	27	27	25	30	30	30	30	30	30	30	29	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic · fmin
Unit Mc
Month June 1958

TABLE 61—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	2.3	1.8	1.9	2.2	2.2	2.2	2.0	2.3	2.6	2.5	3.0	3.1
2	1.5	1.7	1.6	1.8	1.7	2.2	1.6	2.3	2.4	2.8	3.0	3.3
3	1.9	1.7	1.8	1.8	1.8	2.1	1.9	2.2	2.6	2.9	3.1	3.2
4	1.7	1.9	1.9	1.9	2.1	2.4	3.0	2.5	2.9	3.0	3.2	3.2
5	1.6	1.8	2.0	1.8	C	2.1	1.9	2.4	2.8	3.0	3.2	3.2
6	1.6	2.2	2.1	2.1	1.8	2.2	2.2	2.3	2.5	3.0	4.8	4.1
7	2.4	2.3	3.0	2.3	1.7	2.2	1.9	3.0	3.2	3.5	3.0	4.0
8	2.0	1.7	2.1	1.7	2.4	2.2	2.0	C	2.8	3.0	3.2	3.4
9	1.9	2.0	1.9	1.7	2.3	2.2	2.0	2.4	2.5	2.8	3.0	3.6
10	2.0	2.3	2.1	2.0	1.9	2.1	1.7	2.3	3.0	3.0	3.2	3.2
11	1.8	1.8	1.9	1.8	1.7	2.0	1.8	2.2	3.1	2.9	3.2	3.0
12	2.1	1.5	2.1	1.9	1.8	2.2	1.7	2.3	2.7	3.0	3.0	3.3
13	1.5	1.8	1.8	1.8	2.1	2.2	1.8	2.2	2.6	3.0	3.1	3.1
14	1.9	1.7	1.6	1.9	1.7	2.3	1.9	2.0	2.3	2.6	2.9	3.0
15	2.1	2.0	1.9	2.0	1.7	2.1	1.8	2.3	2.8	2.9	3.0	3.3
16	1.8	1.8	1.6	1.9	1.7	2.2	1.9	2.2	2.6	3.0	3.0	C
17	2.3	2.0	1.6	1.7	2.2	2.2	1.7	2.0	2.4	C	3.0	3.0
18	1.6	1.6	2.0	1.6	1.5	2.1	1.6	1.8	2.0	C	C	C
19	1.7	2.1	2.0	2.0	2.2	2.1	1.8	4.4	2.7	3.0	3.0	3.2
20	1.4	1.5	1.3	1.7	1.7	2.0	1.6	1.8	2.5	3.0	3.0	3.2
21	2.6	1.6	2.3	1.8	1.8	2.0	1.7	2.2	2.3	2.4	2.9	3.2
22	1.8	1.7	1.6	2.5	1.8	2.2	1.7	2.6	3.0	2.8	3.2	3.0
23	2.2	2.4	2.3	2.2	2.0	2.2	1.9	2.4	2.5	2.6	2.8	2.8
24	2.2	2.1	2.1	2.7	2.1	2.0	1.9	2.2	2.7	3.0	3.0	2.9
25	2.7	2.6	2.6	2.5	2.4	2.6	2.0	2.2	2.5	2.8	3.0	3.2
26	1.9	2.2	2.0	2.0	2.0	2.2	2.2	2.4	5.0	4.8	4.0	3.4
27	1.8	2.2	2.3	2.2	1.9	2.0	2.1	2.2	3.0	2.8	2.7	2.9
28	1.9	1.8	1.8	1.7	1.8	1.9	1.7	1.9	2.4	2.5	2.8	2.8
29	2.4	3.0	2.6	2.4	2.0	2.2	2.2	2.6	C	2.8	3.0	3.2
30	2.2	1.9	1.7	1.6	1.7	2.3	1.7	1.9	2.4	2.6	2.8	3.4
Mean	2.0	2.0	2.0	2.0	1.9	2.2	1.9	2.3	2.7	2.9	3.1	3.2
Median	1.9	1.8	2.0	1.9	1.8	2.2	1.9	2.3	2.6	2.9	3.0	3.2
Count	30	30	30	30	29	30	30	29	29	28	29	28

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic · fmin
 Unit Mc
 Month June 1958
 TABLE 61—*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 0	3 0	2 7	3 1	2 6	2 6	1 7	2 0	1 9	1 8	2 0	1 9	1
	3 2	3 0	2 8	2 7	2 2	1 8	1 7	1 9	1 9	1 6	2 2	1 5	2
	3 0	3 3	3 0	2 9	2 4	1 7	1 8	1 7	1 9	2 1	2 0	1 8	3
	3 2	3 0	3 0	3 0	2 4	2 0	1 6	1 9	2 2	2 0	1 8	2 2	4
	3 6	3 0	3 4	3 0	2 8	2 0	1 7	1 8	1 8	2 2	1 9	1 8	5
	3 8	3 5	3 0	2 9	3 6	2 6	1 4	1 7	2 2	2 2	2 1	2 3	6
	3 4	3 6	3 0	4 4	3 0	2 0	1 6	1 7	2 0	2 2	2 6	2 0	7
	3 4	3 1	3 4	3 0	2 5	1 9	1 5	1 6	2 0	2 0	1 9	2 0	8
	3 1	3 0	3 1	4 2	2 0	2 0	1 7	2 0	1 9	2 0	1 5	2 2	9
	3 0	2 8	2 6	2 8	1 8	1 8	1 6	2 4	2 2	1 8	1 8	1 6	10
	3 1	3 0	2 7	2 5	1 9	2 0	1 5	1 7	1 8	1 7	1 9	1 9	11
	3 8	3 1	2 7	2 6	2 4	1 7	1 4	1 5	1 4	1 3	1 7	2 2	12
	3 2	3 0	2 7	2 7	2 5	1 9	1 8	2 2	2 2	2 0	1 9	2 2	13
	3 3	3 0	2 9	3 0	2 9	1 9	1 9	1 8	1 8	1 6	1 9	2 3	14
	3 2	3 3	3 1	4 0	2 7	2 7	1 6	1 9	1 9	2 0	2 2	1 8	15
	3 2	C	C	C	2 4	1 7	1 7	2 0	2 0	2 0	1 9	1 7	16
	3 0	3 0	C	C	2 2	1 6	1 6	2 2	1 8	2 0	1 8	1 5	17
	C	C	C	2 6	2 0	2 2	2 0	2 0	1 7	1 9	1 9	1 9	18
	3 2	3 0	2 6	3 4	2 4	2 0	1 3	1 3	2 0	1 7	1 9	1 5	19
	3 1	3 3	2 6	3 0	2 4	1 9	1 4	2 0	2 0	2 3	2 4	1 8	20
	3 0	3 9	2 8	2 5	2 2	2 2	1 8	1 7	1 5	2 0	1 9	2 2	21
	3 2	3 0	2 6	3 0	2 4	2 0	1 6	1 9	2 2	1 7	1 6	1 6	22
	4 8	3 2	2 7	2 8	2 4	1 6	1 6	1 7	1 9	1 9	1 6	2 0	23
	3 0	3 0	2 6	2 8	2 2	1 8	1 6	1 4	1 8	2 8	2 2	2 6	24
	3 3	3 2	C	2 8	2 5	2 0	1 7	1 9	2 0	2 2	1 5	2 2	25
	3 3	3 2	3 0	3 0	2 4	2 2	1 3	1 9	2 0	1 5	2 2	2 4	26
	2 9	3 0	3 0	2 4	2 2	1 6	1 2	2 0	1 9	1 6	2 0	2 4	27
	3 0	2 8	2 7	2 6	2 2	1 9	1 5	1 7	2 2	2 2	1 7	2 6	28
	3 0	C	2 8	2 6	2 2	1 7	1 4	1 6	2 0	2 0	2 0	2 0	29
													30
	3 2	3 1	2 9	2 9	2 4	2 0	1 6	1 8	1 9	1 8	2 0	2 0	Mean
	3 2	3 0	2 8	2 8	2 4	2 0	1 6	1 9	2 0	2 0	1 9	2 0	Median
	2 9	2 7	2 6	2 8	3 0	3 0	3 0	3 0	3 0	3 0	3 0	3 0	Count

Sweep 1 0 Mc to 25 0 Mc. in 27 seconds.

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

TABLE 62
 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	LH	L	L	L
2								L	L	L	LH	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6									L	C	L	L
7									L	L	4 ²⁵	LH
8									L	L	L	L
9									L	LH	L	L
10									L	L	LH	LH
11								L	L	L	L	L
12								L	L	L	LH	LH
13								L	L	L	L	LH
14								L	L	L	L	L
15								L	L	L	C	LH
16								L	L	L	L	L
17								L	L	C	C	L
18								L	L	L	C	C
19								L	L	L	L	L
20								L	L	L	L	L
21							L	L	L	L	L	L
22								L	L	L	L	4 ¹⁰
23								L	L	LH	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											1	1

Sweep 10 Mc. to 25.0 Mc. in 27 seconds.

Characteristic h'F2
Unit : Km.
Month June 1958

TABLE 62
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
LH	L	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
LH	L	L	L	L	L							7
LH	LH	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
L	L	L	L	L	L							12
LH	L	L	L	L	L							13
LH	L	L	L	L	L							14
L	L	LH	L	L	L							15
LH	L	U430L	U420L	L	400	L						16
L	C	C	C	L	L							17
L	L	L	L	L	L							18
C	C	C	C	L	L							19
L	U460L	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
												Mean
												Median
I	I	I	I		I							Count

Sweep 10 Mc. to 25.0 Mc. in 27 seconds.

Characteristic h'F2
 Unit : Km
 Month . June 1958

TABLE 62—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
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								C	L	L	L	L
10								L	L	LH	LH	LH
11							.	L	L	L	L	L
12							..	L	L	L	LH	LH
13							L	L	L	L	L	LH
14								L	L	L	L	L
15							L	L	L	L	L	LH
16								L	L	L	L	C
17							.	L	L	C	L	C
18								L	L	C	L	C
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21							L	L	L	L	4 ¹⁰	L
22							..	L	L	L	L	L
23								L	LH	LH	L	L
24							L	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	C	L	L	L
30							..	L	L	L	L	L
Mean											.	..
Median						
Count										.	1	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic h'F2
 Unit : Km
 Month . June 1958

TABLE 62--*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
LH	L	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
LH	L	L	L	L	L							5
L	L	L	L	L	L							6
LH	LH	L	L	L	L							7
L	L	L	L	LH	L							8
L	L	L	L	L	L							9
LH	L	L	L	L	L							10
L	L	L	L	L	L							11
u470L	L	L	L	L	L							12
LH	L	L	L	L	L							13
L	L	L	L	L	L							14
L	u420L	440	420	410	L							15
L	C	C	C	L	L							16
L	C	C	C	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	C	L	L	L							25
L	u500L	u480L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	u480L	u490L	L	L	L							29
L	C	L	L	L	L							30
.												Mean
..	.	.	.	.	..							Median
1	3	3	1	1								Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic f_oF_2
 Unit Km.
 Month June 1958

TABLE 63
 Ionospheric Data
 75 °E Mean Time

Latitude $10^{\circ}2'N$
 Longitude $77^{\circ}5'E$

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	220	225	320	350	330	265	250	245	235	A	220H	215H
2	360	360	355	U345F	U295F	245	270	240	230	220	220H	215H
3	320	320	300	260	220	225	260	245	235	230	225	215H
4	U305F	U325F	U360F	U330F	240	215	265	245	235	225	215	215H
5	280	290	300	280	250	230	260	240	230	215H	215H	210H
6	335	340	335	280	235	220	260	240	230	C	B	215H
7	340	360	335	240	210	220	260	235	230	220	220	220
8	395	400	400	375	320	270	260	240	220	225	215	210H
9	365	380	400	380	295	220	C	245	U240A	215H	200H	200H
10	400	360	300	235	220	205	260	240	235	230	215H	215H
11	325	320	295	240	225	235	260	240	240	230H	220	220
12	U320F	400	360	300	260	240	260	235H	230	220	210	205
13	360	365	350	310	250	230	260	240	230	215	220	215
14	380	375	340	310	210	220	260	240	220	210	205H	200
15	380F	F	280	270	230	220	260	250	235H	220	C	210
16	390	380	340	280	220	220	255	240	225	215	210	200H
17	310	300	305	300	260	220	260	230	220	C	C	210
18	350	280	240	240	220	220	240	235	220	215	C	C
19	340	305	305	300	260	230	260	240	240	210	220	200
20	U340F	U320F	320	U320F	U280F	240	260	240	220	210	200	200
21	F	400	U320F	265	230	235	260	240	220H	210H	200H	205H
22	430	U460A	420	335	280	380	280	245	230	230	215	210
23	U480F	F	U385F	290H	215	240	245	240	230	220	210H	205H
24	U325F	335	325	300	240	240	260	U240A	220	215	215	215
25	285	285	280	265	245	245	275	245	225	220	210	210H
26	360	410	440F	420	290	235	260	240	240	B	235	220
27	365	350	340	310	240	220	265	A	240	215	210	200
28	380	340	270	225	220	230	A	250	225	220	210	200
29	420F	400	305	235	260	235	275	245	A	U245A	225	215
30	310	290	240	245	250	240	280	250	240	220	210	220
Mean	355	345	330	295	250	235	260	240	230	220	215	210
Median	360	345	320	295	240	230	260	240	230	220	215	210
Count	29	28	30	30	30	30	28	29	29	26	26	29

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic h'F
 Unit Km.
 Month . June 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
210	220	215H	230H	240H	250	295	360	U410F	425	U390F	360	1
220H	210H	210	220	230	255	295	380	450	U440F	390	330	2
215H	210H	215	220	235H	255	295	U360F	F	F	U350F	U340F	3
210	210	215	220	230	260	300	400	F	F	U340F	325	4
200H	200	B	230	240	255	295	390	U420F	U430F	U390F	F	5
205H	210H	210H	220	240	A	295	400	F	F	375	340	6
215	215	220	235	240	275	315H	400	440	F	400	360	7
200H	205H	B	220	240H	260	300	400	F	F	430	400	8
200H	210H	220	220H	240	260	300	420	F	460	470	430	9
230	200H	200H	200H	225	255	300	100	F	470	400	360	10
210H	215	220	230	A	265	295	380	F	F	U425E	U390F	11
200	U230A	215	235	260	270	295	360	420	110	385	380	12
205	205	215	220	230	260	290	370	F	U400E	430F	390	13
205	205	200H	205H	A	A	U290A	360	420F	F	U480F	F	14
200H	200	215	230	210	260	295	380	F	F	U420F	390	15
200H	C	C	C	230	260	290	395	F	U360F	U370F	325	16
200	205	C	C	230	240	280	340	U400F	U440F	U420F	C	17
C	C	C	C	210H	240	280	U350F	U400F	440	U400F	360F	18
200	210	205	C	A	A	280	380	440	420	380	350	19
200H	205H	200H	210	220	240	280	U360F	F	F	U460F	U460F	20
225	225H	205H	215H	230	250	295	U345A	U345F	360	380	335	21
220	205H	215	220	230	245	270	355	355	U460F	U440F	U480F	22
200H	210	220	220	230	245	280	370	U470F	F	U420F	395	23
205H	200H	210	215	230	U280A	295	360	U400F	345	290	290	24
205H	220	220	C	225	250	290	350	U440F	F	F	U380F	25
215	210	220	225	230	260	295	360	395F	400F	420	380F	26
205	A	A	245	235	255	290	380	430	460F	420F	425	27
205	220	240	220	230	A	295	390	F	F	F	450F	28
A	A	225	230	U260A	265	310	370	400	440	440	360	29
220	C	220	230	A	245	295	370	400F	400F	420F	420F	30
210	210	215	225	235	255	295	375	415	420	405	380	Mean
205	210	215	220	230	255	295	370	415	430	410	380	Median
28	25	24	25	26	26	30	30	18	18	28	27	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

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

TABLE 63—*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	220	260	365	400	300	280	245	240	A	220	220H	215H
2	360F	345	U360F	320	265	270F	250	240	220	210	220H	210H
3	315	315	275	240	220	260	250	240	230	225	215H	215H
4	320	U345F	U345F	U295F	220	260	255	245	230	215	215	210H
5	280	300	300	265	C	265	250	240	230	215H	215H	205H
6	340	360	300	255	220	255	245	235	225	215	B	215H
7	375	370	300	230	220	275	245	230	220	A	220	210
8	400	420	400	360	300	280	240	C	225	220	210	200H
9	360	400	400	340	240	240	250	240	220	210H	200H	200H
10	360	340	250	220	220	245	245	240	235	215H	205H	200H
11	315	320	260	230	225	265	250	245	230	220H	220	215
12	U400F	395	330	270	245	260	250	240H	220	U200L	210	200
13	345	370	345	280	240	260	250	235	220	220	220	205
14	360	360	325	280	230	250	250	230	215	200	200	200
15	U360F	300	270	260	220	270	250	240	230	215	210	200
16	380	360	310	240	220	260	240	230	220	210	200H	C
17	305	300	305	280	230	260	240	230	220	C	220	200
18	310	260	240	240	220	250	240	220	220	C	C	C
19	320	300	300	280	240	260	240	U245B	220	220	205	200
20	U340F	U330F	U330F	U340F	260	270	245	235	220	200	200	200H
21	U470F	365	300	235	220	270	245	225H	230	200H	210H	210H
22	U460A	425	380	295	255	300	260	240	230	215	220	205H
23	U480F	F	U350F	240	235	260	245	235	220	210	205H	210
24	330	320	305F	280	235	260	245	230	225	210	215H	210
25	280	275	280	240	240	280	255	240	215	225	215	205H
26	375	435	450F	320	250	260	250	240	B	240	235	215
27	355	345	340	275	220	255	260	245	220	210	210	200
28	360	320	240	225	220	270	260	240	220	205	205	200
29	460	350F	270	240	235	270	260	A	C	225	215	A
30	300	270	250	240	240	300	260	245	240	215	210	215
Mean	355	340	315	275	235	265	250	235	225	215	210	210
Median	360	345	305	270	235	260	250	240	220	215	210	205
Count	30	29	30	30	29	30	30	28	27	27	28	27

Sweep 1 0 Mc. to 25 0 Mc in 27 seconds

Characteristic h'F
Unit · Km
Month · June 1958

TABLE 63—*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
215	215H	225H	230H	250	280	320	U395F	F	U410F	370	355	1
215H	205	220	240	245	270	320	440	U410F	U410F	375	330	2
215H	215	220	230H	240	280	320	F	F	U380F	U360F	U325F	3
210	215	215	225	240	275	330	U420F	F	F	320	U280F	4
200	230H	B	225	240	250	270	325	420	U450F	U425F	340	5
200H	205H	210	220H	240H	260	340	420	F	400	360	340	6
220	220	220	240	250	290	345H	440	420	F	380	380	7
200H	200H	235	230	240H	265	325	460	440	455	400	390	8
205H	205H	220	240	245	280	340	340	F	500	460	420	9
215H	210H	200H	225	240	270	335	F	500	440	370	340	10
210	220	220	225	A	270	325	F	F	U420F	F	U400F	11
U225A	220	200H	240	A	280	320	400	490F	395	380	380	12
200	210	215	230	240	280	320	F	U425F	U410F	405F	395	13
210	200H	200H	220	A	A	320	400H	F	F	F	U380F	14
210H	200	200H	235	250	270	320	F	F	F	400	380	15
200H	C	C	C	240	260	320	U100F	F	U380F	340	310	16
200	210	C	C	240	260	300	400	U420F	U440	U420F	U380F	17
C	C	C	210H	240	260	305	F	410F	U420F	U380F	360F	18
200	210	210	A	A	280	320	420	410	420	340	360	19
200H	205H	210	220	220	260	310	F	F	F	U500F	U420F	20
220	230	230	230	245	U285A	300	345	U360F	380	345	405	21
210	210	220	230	240	270	310	U360F	U440F	F	F	F	22
210H	200H	220	220	235	270	305	420	F	U420F	U425F	360	23
205	210	215	220	U255A	U305A	310	U405F	F	320	290	290	24
200H	210H	C	225	240	270	310	400	F	F	U395F	360	25
215	210	220	220	240	275	320	400	F	420	360F	380	26
205	A	240	A	240	275	320	410	440	460F	425	400	27
200	220	240	230	255	280	325	F	320F	F	480F	480F	28
A	230	235	A	250	295	345	390	430	450	400	340	29
220	C	220	A	240	260	310	400	380F	410F	F	410	30
210	210	220	230	240	275	320	405	420	420	390	370	Mean
210	210	220	230	240	270	320	400	430	420	380	380	Median
28	26	25	24	26	29	30	22	16	22	26	29	Count

Sweep 10 Mc to 250 Mc. in 27 seconds.

Characteristic, h'E
Unit - Km
Month June 1958

TABLE 64
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							130	110	110H	110	A	A
2	.						115H	110	A	A	A	A
3							115H	110	A	B	A	A
4	.	.						A	A	A	A	A
5	.	..						120	105	A	A	105
6			..				130H	105	105	C	B	B
7	.	.					125H	110H	115H	115	A	A
8								105	105	A	A	A
9						..	C	A	A	A	A	A
10						.	110	105	110	A	A	B
11		.				.	115H	105	100	A	A	B
12		.				.	120H	115H	110	A	A	A
13		.				.	.	110	105	A	A	A
14		..				.	120	110	110	105	A	A
15		.				.	115	115H	A	A	C	A
16	.	.				.	120	110	110	A	A	A
17		.				..	120	105	A	C	C	A
18		.				..	120	105	A	A	C	C
19		.				.		110	A	110	110	A
20		.				.	120	110	110	A	A	A
21	.					.		110	110	105	A	A
22	.	.				.	120	115	115	110	A	A
23			110	105	A	A	A
24	115	A	A	A	A	A
25			110	105	110	A	A
26		..				.	120	115	B	B	B	B
27		A	110	110	A	110
28	110	110	110	A	A
29		.				.	.	110	110	110	110	110
30		115	110	110	110	A	A
Mean		.	.				120	110	110	110	.	.
Median						.	120	110	110	110	.	
Count	.					..	18	26	20	11	2	3

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E
 Unit : Km
 Month : June 1958

TABLE 64
 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	115	120	.	.	.	.	.	..	1
A	110	A	105	A	110	.	..	.	.	.	..	2
A	A	A	110	110	A	.	.	.	.	.	..	3
A	A	105	A	110	115	..	.	..	.	.	..	4
A	A	B	105	A	120	.	..	..	.	..	.	5
A	A	A	A	A	A	.	.	.	.	.	.	6
A	A	A	B	120	A	..	..	..	..	.	..	7
A	A	B	105	110	110	.	.	..	.	.	.	8
A	A	105	105	A	105	.	.	..	.	.	.	9
A	A	A	A	A	110	.	..	..	..	..	..	10
A	A	A	A	A	A	..	..	..	..	..	..	11
A	A	A	A	115	115	..	.	.	.	.	.	12
A	A	A	A	120	120	.	.	..	.	.	..	13
A	A	110	110	105	A	..	..	..	..	..	..	14
A	115	120	115	120	125H	.	..	..	..	..	..	15
A	C	C	C	110	A	..	..	.	.	..	..	16
A	A	C	C	115	A	..	..	..	..	..	..	17
C	C	C	C	B	A	..	..	..	..	.	..	18
A	A	110	C	A	A	..	..	..	..	..	..	19
A	110	110	A	115	120	..	..	..	..	..	..	20
A	A	A	105	A	A	..	..	..	..	..	..	21
A	A	110	105	A	110	..	..	..	..	..	..	22
A	B	A	A	110	115	..	..	..	..	..	.	23
A	A	A	A	105	A	.	.	.	..	..	.	24
A	A	A	C	110	110	125	..	..	..	..	..	25
110	B	110	115	120	120	..	..	..	..	..	.	26
110	110	A	110	A	A	A	.	.	..	..	..	27
110	A	A	110	110	110	.	..	..	.	.	..	28
A	A	110	110	110	A	..	..	..	..	..	..	29
A	C	110	A	A	.	..	..	.	.	..	.	30
		110	110	110	115	.	..	.	.	.	.	Mean
	..	110	110	110	115	..	.	..	.	.	.	Median
3	4	10	13	18	15	1	.	..	.	.	.	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E
Unit : Km
Month . June 1958

TABLE 64—*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	105	110	A	A	A
2							A	110	A	A	A	A
3							110H	110	105	A	A	A
4								110	A	A	A	A
5							115	105	A	A	A	A
6							120	105	A	A	B	B
7							115H	120	115	115	A	A
8							110	C	105	A	A	A
9							115	A	105	A	A	A
10							110	110	115	A	A	A
11							110H	100	A	A	A	A
12							115H	105	A	A	A	A
13							115	105	105	A	A	A
14							110	105	110	105	A	A
15							110	110	A	A	A	A
16							120	110	110	A	A	C
17							110	A	A	C	A	C
18							110	105	A	C	C	C
19							110	B	110	110	A	A
20							110	110	110	A	A	A
21							110	110	A	A	A	A
22							110	115	A	A	110	A
23							115	110	A	A	A	A
24							A	A	A	A	A	A
25							120	110	105	A	A	A
26							115	110	B	B	B	110
27							A	A	110	110	A	110
28							A	110	105	105	A	A
29							110	110	C	110	110	110
30							110	110	105	A	A	A
Mean							115	110	110	110		.
Median							110	110	110	110		
Count							25	24	15	6	2	3

Sweep 1 0 Mc. to 25 0 Mc. in 27 seconds

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

TABLE 64—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	110	A	120								1
A	110	105	105	105	A							2
A	A	110	A	115	A							3
A	A	A	110	110	.							4
A	A	110	A	120	..							5
A	A	A	110	A	..							6
A	A	A	B	120	A							7
A	A	A	110	110	115							8
A	A	105	B	110	A							9
A	A	A	105	105	A							10
A	A	A	A	A	A							11
A	A	A	110	115	A							12
A	A	A	115	100	.							13
A	A	A	115	A	A							14
A	115	115	B	125	.							15
A	C	C	C	A	A							16
A	A	C	C	A	..							17
C	C	C	105	A	.							18
A	A	A	A	A	..							19
A	110	A	B	110	120							20
A	A	A	A	A	A							21
A	110	A	A	A	F							22
B	A	A	A	110	A							23
A	A	A	110	A	..							24
A	A	C	110	110	120							25
A	A	115	115	110	..							26
110	105	A	A	A	..							27
110	A	110	110	A	..							28
110	105	110	110	A	..							29
A	C	110	A	A	.							30
..	110	110	110	110	..							Mean
.	110	110	110	110	..							Median
3	6	11	14	16	3							Count

Sweep 10 Mc. to 25.0 Mc. in 27 seconds.

Characteristic . h'Es
 Unit . Km
 Month : June 1958

TABLE 65
 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							105	G	G	120	100	100
2		110				.	115	105	100	100	100	100
3							G	115	100	100	100	100
4	110							100	105	100	100	100
5								G	100	100	100	100
6	105	110	105				G	G	100	C	B	100
7	95		110				110	G	G	G	100	100
8		120	110	105				100	100	100	100	100
9							C	100	100	100	100	100
10							G	100	G	105	100	100
11				.			G	100	100	100	100	100
12		110	.				G	100	100	100	100	100
13		115	.					105	100	100	100	100
14		110	.	.	.		G	100	100	100	100	100
15		.	.	.	.		105	100	100	100	C	100
16				.	.		G	100	100	100	100	C
17				.	.		G	100	100	C	C	100
18	120						G	100	100	100	C	C
19		110	105			..		100	100	100	100	100
20		110	120	.			G	140	140	100	100	100
21	120	110	.	.	..	.	.	100	G	100	100	105
22		115	115			.	G	G	G	100	100	100
23	120						110	115	100	100	100	100
24	115		110	125	110	.	105	105	100	100	100	100
25	120		.	.	.	..	120	100	100	100	100	100
26	100			..	.	..	G	G	G	100	100	100
27			.	.	.		.	110	100	100	100	100
28		120	.	.	.		105	105	100	100	100	100
29		.	.	.	.		..	100	100	105	100	100
30	.			.	.	..	G	100	100	100	100	100
Mean	110	115	110			..	110	105	100	100	100	100
Median	115	110	110		.		110	100	100	100	100	100
Count	9	11	7	2	1		8	24	24	27	26	28

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : h'Es
 Unit : Km
 Month June 1958

TABLE 65
 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	105	110						115	1
100	100	100	100	105	105							2
100	100	100	100	105	100	105		..				3
100	100	100	100	105	105				105			4
100	100	100	100	105	105	110						5
100	100	100	100	100	105					110		6
100	100	100	G	G	125					120	..	7
100	100	100	100	100	105					120		8
100	100	100	100	100	100	140				115	..	9
100	100	100	100	100	105	110						10
100	100	100	100	100	100	100	..					11
100	100	100	100	110	110	115	..	115	100	110	100	12
100	100	100	100	G	100			..				13
100	100	100	100	100	100	100		..		120		14
100	G	G	G	G	G	..						15
100	C	C	C	100	105							16
100	100	C	C	G	100	100		..			C	17
C	C	C	C	G	100	..			120	110	110	18
100	100	100	C	100	100	100	100		120	..		19
100	100	100	100	G	100	..	..	..				20
100	100	100	140	100	100	100	100	100	..	115		21
100	100	100	100	100	105	..	..	..	..		110	22
100	100	100	100	100	105	105	..	..	..			23
100	100	100	100	100	100	105	105	100		115	110	24
100	100	100	C	100	105	G	..	..		125	115	25
100	100	100	100	100	110	100	..	..	..	120	120	26
100	100	100	100	100	100	100	110	..	100	100	100	27
100	100	100	100	100	100	..		..		115		28
100	100	100	100	100	100	105	..					29
100	C	100	100	100	100	110	115		120	120	125	30
100	100	100	100	100	105	105	105	..	110	115	110	Mean
100	100	100	100	100	100	100	105		110	115	110	Median
29	26	26	23	24	29	16	5	3	6	14	9	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic · h'Es
Unit Km
Month . June 1958

TABLE 65—*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	115	100	100	100
2							105	G	100	100	100	100
3							G	100	100	100	100	100
4	110						100	100	100	100	100	100
5					C		G	100	100	100	100	100
6	115	110					G	G	100	100	100	100
7							G	G	G	130	100	100
8		115	110	105			100	C	100	100	100	100
9			115				G	100	100	100	100	100
10	115						G	G	G	100	100	100
11							120	100	100	100	100	100
12		110					G	100	100	100	100	100
13		110	120				110	100	100	100	100	100
14							G	100	100	100	100	100
15							105	100	100	100	100	100
16							100	100	100	100	100	C
17							G	100	100	C	100	100
18							G	100	100	C	C	C
19	110						G	100	100	100	100	100
20	110	120	110				105	140	100	100	100	100
21		110					G	G	100	100	100	100
22	110		115				100	105	100	100	100	100
23						125	115	G	100	100	100	100
24	125		110	110F			105	100	100	100	100	100
25	115						105	100	100	100	100	100
26	100						G	G	100	100	100	100
27		120					105	110	100	100	100	100
28		115					110	100	100	100	100	100
29	115						G	100	C	100	100	105
30							105	100	100	100	100	100
Mean	110	115	115				105	100	100	100	100	100
Median	110	110	110				105	100	100	100	100	100
Count	10	8	6	2		1	14	22	27	28	29	28

Sweep 1 0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic . h'Es
 Unit . Km
 Month June 1958

TABLE 65—*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	105	105			.	.	120	.	115	1
100	100	100	100	105	105	100	.	.	120	.	120	2
100	100	100	105	100	100	.	.	.	.	.	.	3
100	100	100	105	105	115	.	.	.	.	.	.	4
100	100	100	100	105	100	.	.	.	.	.	.	5
100	100	100	100	110		100	.	.	100	110	.	6
100	100	100	G	G	100	.	.	.	.	.	120	7
100	100	100	100	100	105	.	..	.	120	120	.	8
100	100	100	100	G	100	.	..	.	120	115	.	9
100	100	100	100	100	105	.	.	.	.	.	.	10
100	100	100	100	100	100	100	..	.	.	.	.	11
100	100	100	105	110	110	115	110	105	105	110	.	12
100	100	100	100	G	115	.	.	..	.	.	.	13
100	100	100	100	100	100	.	.	..	120	120	.	14
100	G	G	B	G	.	.	..	.	.	.	.	15
100	C	C	C	105	105	.	..	.	.	.	.	16
100	100	100	C	100	100	100	..	.	..	.	120	17
C	C	C	G	100	100	100	.	.	.	..	120	18
100	100	100	100	100	100	100	.	..	115	..	120	19
100	100	100	100	100	100	..	..	.	.	..	120	20
100	100	105	100	100	100	100	100	115	.	.	.	21
100	100	100	100	100	105	..	.	.	120	.	120	22
100	100	100	100	105	95	.	.	.	..	115	.	23
100	100	100	100	100	100	140	100	100	..	115	120	24
100	100	C	100	105	110	..	..	..	.	120	120	25
100	100	100	100	100	125	100	..	.	120	.	.	26
100	100	100	100	100	100	100	.	..	100	120	..	27
100	100	100	100	100	100	100	..	.	..	120	.	28
100	100	100	100	110	100	105	..	..	.	.	.	29
100	C	100	100	100	100	110	.	..	..	120	115	30
100	100	100	100	100	105	105	.	.	115	115	120	Mean
100	100	100	100	100	100	100	.	.	120	120	120	Median
29	26	25	25	26	27	12	3	3	11	11	11	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 66

Latitude : 10 2° N

Unit —

Ionospheric Data

Longitude : 77 5° E

Month June 1958

75 0°E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	3 15	2 95	U2 50S	U2 55S	2 65	U2.25FH	2 90	2 95	2 55H	2 50	2 30	2 00
2	F	2 40F	U2 10F	F	F	U3 00F	2 85	2 45H	2 55	2 20	2 10	2 15
3	2 55	2 60F	2 70F	2 85F	3 10F	F	2 95	2 80	2 60	2 35	2 15	2 10
4	U2 65F	F	F	F	F	F	3 00F	2 70	2 15	2 15	2 20	2 10
5	2 50	2 55	2 55	U2 65F	F	F	3 00F	2 90	2 65	2 30	2 05	2 15
6	F	F	F	F	F	3 10	2 90	2 80	2 55	C	2 20	2 05
7	F	F	F	U2 95F	3 25	3 10	2 90	2 80	2 85	2 75	2 50	2 20
8	F	F	U2 25F	F	F	F	U2 90S	2 80	2 60	2 30	2 00	2 10
9	F	F	F	F	F	3 20	C	3 00	2 70	2 35	U2 00R	2 05
10	F	F	2 70F	3 10	3 20	3 30	3 25	3 00	2 75	2 60	2 35	2 10
11	FS	2 45	U2 70F	U2 90F	3 00	U2 90S	2 95	3 00	2 70	2 40	2 30	2.15
12	F	FS	FS	FS	2 90	U3 00S	2 90	2 70	2 15	U2 15R	2 10	2 15
13	2 35	U2 50F	F	F	U2 90F	3 10	2 90	2 70	U2 35R	2 20	2 20	2 20
14	F	F	F	F	F	3 30	U2 95S	2 70	2 45	2 15	2 10	2 05
15	F	F	F	F	3 15	3 35	2 95	2 70	2 45	J2 00R	C	2 15
16	U2 35S	2 40	2 60	2 75	U3 30S	3 40	3 05	J2 75R	2 15	2 35	2 30	2 25
17	F	U2 85F	2 75	2 75	2 90	3 20	3 05	2 75	U2 50R	C	C	2 25
18	F	F	F	U3 05F	3.15	3 35	3 15	2 90	2 60	2 35	C	C
19	F	F	2 80	U2 85S	3 05	3 20	3 00	2 90	2 60	2 30	2 20	2 20
20	F	F	F	F	F	F	U2 95F	2 80	2 70	2 45	2.20	2 10
21	F	F	F	F	F	3 20	2 65	2 85	2 50	2.15	2 30	2 40
22	2 25	2 25	2 35	2 55	3 10	2 25H	2 65	2.60	2 65	2 35	2 10	2 30
23	F	F	F	F	J3 15F	3 20	3 20	3 05	2 75	2 25H	2 20	2 30
24	F	F	F	F	J3 15F	3 15F	2 95	2 75	2 35	2 30	2 15	2 20
25	U2 70S	2 70	2 75	U2 95S	U3 10R	3 05	2 85	2 60	2 45	2 30	2 25	2.20
26	F	F	F	F	F	3 10	3 00	2 85	2 70	2 40	U2 10R	2 05
27	U2 35F	F	F	F	3 00	3 15	3 00	2 90	2 55	2 20	2 10	2 10
28	F	F	F	3 15	U3 05S	3 05	2 90	2 55	2 50	2 30	2 25	2 15
29	F	F	F	F	2 95	U3 25S	2 90	2 90	2 70	2 50	2 35	2 10
30	2 30	2 55	2 65	2 90	2 95	2 90	2 70	2 70	2 55	2 30	2 15	2.10
Mean	2 50	2 55	2 60	2 85	3 05	3 10	2 95	2.80	2 55	2 30	2 20	2 15
Median	2 40	2 55	2 65	2 90	3 10	3 10	2 95	2 80	2 55	2 30	2 20	2.15
Count	10	11	13	14	20	26	29	30	30	28	27	29

Sweep 1 0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 66

Latitude 10° 2' N

Unit : —

Ionospheric Data

Longitude 77° 5' E

Month : June 1958

75° 0' E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.10	2.10	2.10	2.05	2.10	2.25	2.30	2.25	2.15	2.20	2.30	U2.45F	1
2.05	2.00	2.05	2.05	2.05	2.10	U2.15S	2.10	2.05	2.10	U2.30F	2.40	2
2.10	2.15	2.10	2.10	2.15	2.20	U2.25S	2.15F	U2.05F	F	F	F	3
2.05	2.05	2.00	2.00	U2.05R	2.05	U2.10S	2.15	U2.10F	F	2.30F	F	4
2.05H	2.00	2.05	2.10	2.15	U2.25S	2.15H	2.05	U2.05S	F	F	U2.20F	5
2.05	2.00	2.05	2.10	2.15	2.15	2.20	2.05	U2.05F	F	U2.30F	U2.40F	6
2.00	2.00	2.00	2.10	2.25	2.30	2.20	2.05	2.00F	F	F	F	7
2.10	2.10	2.10	2.05	2.05	U2.10S	U2.15S	U2.05S	F	2.10	F	F	8
2.05	2.10	2.10	2.10	2.15	2.15	U2.05S	S	F	F	F	F	9
1.90H	2.00	1.95	2.00	2.10	2.10	2.20	U2.10S	F	F	F	F	10
2.10	2.05	2.10	2.15	2.15	2.30	2.30	U2.20S	U2.05FS	F	F	F	11
2.15H	2.10	2.00	2.05	2.10	2.15	U2.10S	2.15	2.05	2.20F	U2.20S	U2.30S	12
2.10	2.20	2.20	2.25	2.25	2.30	2.25	U2.15RS	U2.10FS	U2.25FS	F	F	13
2.10	2.10	U2.15R	2.20	2.35	2.40	2.35	J2.35R	2.15	F	F	F	14
2.20	J2.25R	2.35	2.40	2.50	2.55	2.45	U2.30S	2.25F	U2.15F	F	J2.35S	15
2.15	C	C	C	2.35	2.40	2.40	F	F	F	F	F	16
2.20	2.15	C	C	2.25	2.35	2.35	2.30	U2.25F	U2.20F	F	C	17
C	C	C	C	2.45	2.55	2.50	2.30	U2.25F	F	F	F	18
2.10	2.20	2.10	C	2.30	2.45	U2.40S	J2.25R	2.20	U2.25F	F	F	19
2.15	2.20	2.35	2.35	2.40	2.35	U2.35S	F	F	F	F	F	20
2.30	2.25	2.10	2.10	2.20	2.20	J2.40S	2.35	2.40	2.35	2.35	2.45	21
2.30	2.25	2.20	2.15	U2.15R	2.00	2.15	2.20	F	F	F	F	22
2.25	2.15	2.00	2.10	2.15	2.30	2.25	2.15	U2.05F	F	F	F	23
2.15	2.10	2.15	2.15	2.15	2.20	2.20	2.10	U2.10F	2.30	U2.60S	2.55	24
2.15	2.10	2.00	C	2.10	2.10	2.20	2.20	2.10	F	F	F	25
2.10	2.10	2.10	2.05	2.10	2.10	U2.30S	U2.20S	2.20	2.10	F	F	26
2.15	2.10	2.05	2.10	2.10	2.15	2.10	2.10	2.05	F	U2.20F	F	27
2.10	2.00	2.10	2.10	2.10	2.15	2.15	2.10	F	U2.00F	F	F	28
2.05	2.05	2.05	1.95	2.00	2.00	2.00	2.05	2.05	2.00	U1.95W	U1.95F	29
2.10	C	2.05	2.10	2.30	2.40	2.40	U2.25S	2.20	U2.15F	F	F	30
2.10	2.10	2.10	2.10	2.20	2.25	2.25	2.15	2.15	2.15	U2.30	U2.35	Mean
2.10	2.10	2.10	2.10	2.15	2.20	2.20	2.15	2.10	2.20	U2.30	U2.40	Median
29	27	27	25	30	30	30	27	23	14	9	9	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2
 Unit : —
 Month : June 1958

TABLE 66—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	U ₃ 20S	U ₂ 60S	U ₂ 25 ^N	2 40F	2 80	2 75	2 95	2 80	2 50	2 40	2 10	U ₁ 05W
2	U ₂ 40F	U ₂ 45F	F	F	F	3 00	2 70	2 60	2 40	2 10	2 15	2 10
3	2 60	2 65F	2 75F	U ₃ 05F	3 05	3 00	2 85	2 65	2 40	2 20	2 10	2 10
4	F	F	F	F	F	U ₃ 05F	2 85F	2 60	2 30	2 10	2 10	2 05
5	2 55	2 60	2 65	F	C	3 05F	3.00	2 70	2 45	2 10	2 15	2 10
6	F	F	F	F	3 00	2 85	2 90	2 65	2 40	2 20	2 15	2 10
7	F	F	F	3 10	3 15	2 85	2 80	2 90	2 75	2 65	2 40	2 10
8	F	U ₂ 25F	F	F	F	2 80F	2 90	C	2 15	2 15	2 05	2 00
9	F	F	F	F	F	3 10	3 10	2 90	2 60	2 15	2 15	2 05
10	F	F	3 00	3 20	3 15	3 15	3 05	2 75	2 65	2 50	2 20	2 00
11	2 45	2 50	U ₂ 80FS	3 00	3 00	2 95	3 00	2 95	2 55	2 35	2 25	2 15
12	F	F	1S	FS	2 90	3 10	U ₂ 75S	2 55	2 25	2 10	2 10	2 15H
13	2 40	F	F	FS	3 10	3 00	2 85	2 50	U ₂ 15R	2 20	2 20	2 15
14	F	F	F	F	U ₃ 15F	3 05	2 90	2 65	2 30	2 10	2 10	2 10
15	F	F	F	U ₃ 05F	3 30	3 00	U ₂ 85S	2 60	2 15	2 25	2 20	2 15
16	2 40	2 50	2 65	3 05	3 35	3 05	2 90	2 65	2 35	2 25	2 30	C
17	U ₂ 80F	U ₂ 70F	2 70	2 80	3 15	3 05	2 90	2 60	2 40	C	2 30	2 25
18	F	F	F	3 15	3 20	U ₃ 20R	3 05	2 75	2 45	C	C	C
19	F	U ₂ 75F	2 85	U ₂ 95S	U ₃ 30S	3 05	2 90	2 80	2 45	2 20	2 30	2 15
20	F	F	F	F	F	U ₃ 10F	2 90	2 80	2 55	2 35	2 15	2 10
21	F	F	F	F	3 25	3 00	2 90	2 70	2 30	2 15	2 35	2 40
22	2 25	2 35	2 55	2 85	3 35	2 65	2 65	2 60	2 50	J ₂ 25R	2 25	2 30
23	F	F	F	F	3 20	3 00	3 15	2 95	2 45H	2 30H	2 20	2 25
24	F	F	F	F	F	3 05	2 85	2 55	2 30	2 20	2 10	2 20
25	2 70	U ₂ 80S	2 80	3 00	3 05	2 90	2 75	2 55	2 35	2 20	2 25	2 25
26	F	F	F	F	U ₂ 80F	2 90	3 00	U ₂ 75S	2 55	2 25	2 05	2 10
27	F	F	F	F	3 05	3 00	2 95	2 70	2 35	2 15	2 15	2 15
28	F	F	F	3 25	U ₃ 20S	2 80	2 75	2 45	2 30	2 30	2 20	2 15
29	F	F	F	U ₂ 90F	U ₃ 10S	2 70	2 90	2 80	C	2 45	2 20	2 05
30	2 45	2 75	U ₂ 80S	2 90	3 05	2 70	U ₂ 70S	2 65	2 45	2 15	2 10	2 15
Mean	2 55	2 60	2 70	3 00	3 10	2 95	2 90	2 70	2 40	2 25	2 20	2 15
Median	2 45	2 60	2 75	3 00	3 15	3 00	2 90	2 65	2 40	2 20	2 15	2 10
Count	11	12	11	15	23	30	30	29	29	28	29	28

Sweep 1.0 Mc. to 25 0 Mc in 27 seconds

Characteristic (M3000)F2

TABLE 66—contd.

Latitude : 10.2° N

Unit —

Ionospheric Data

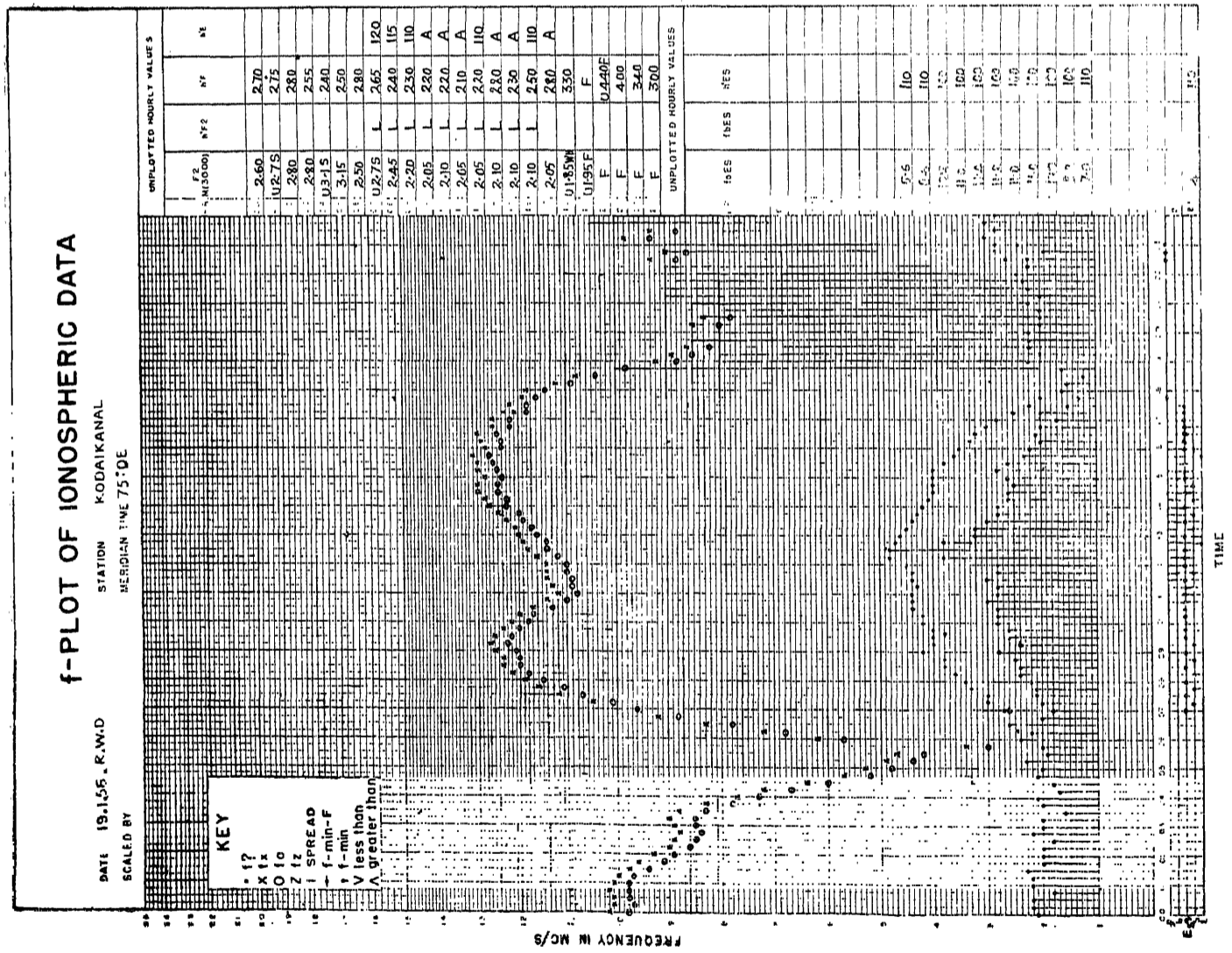
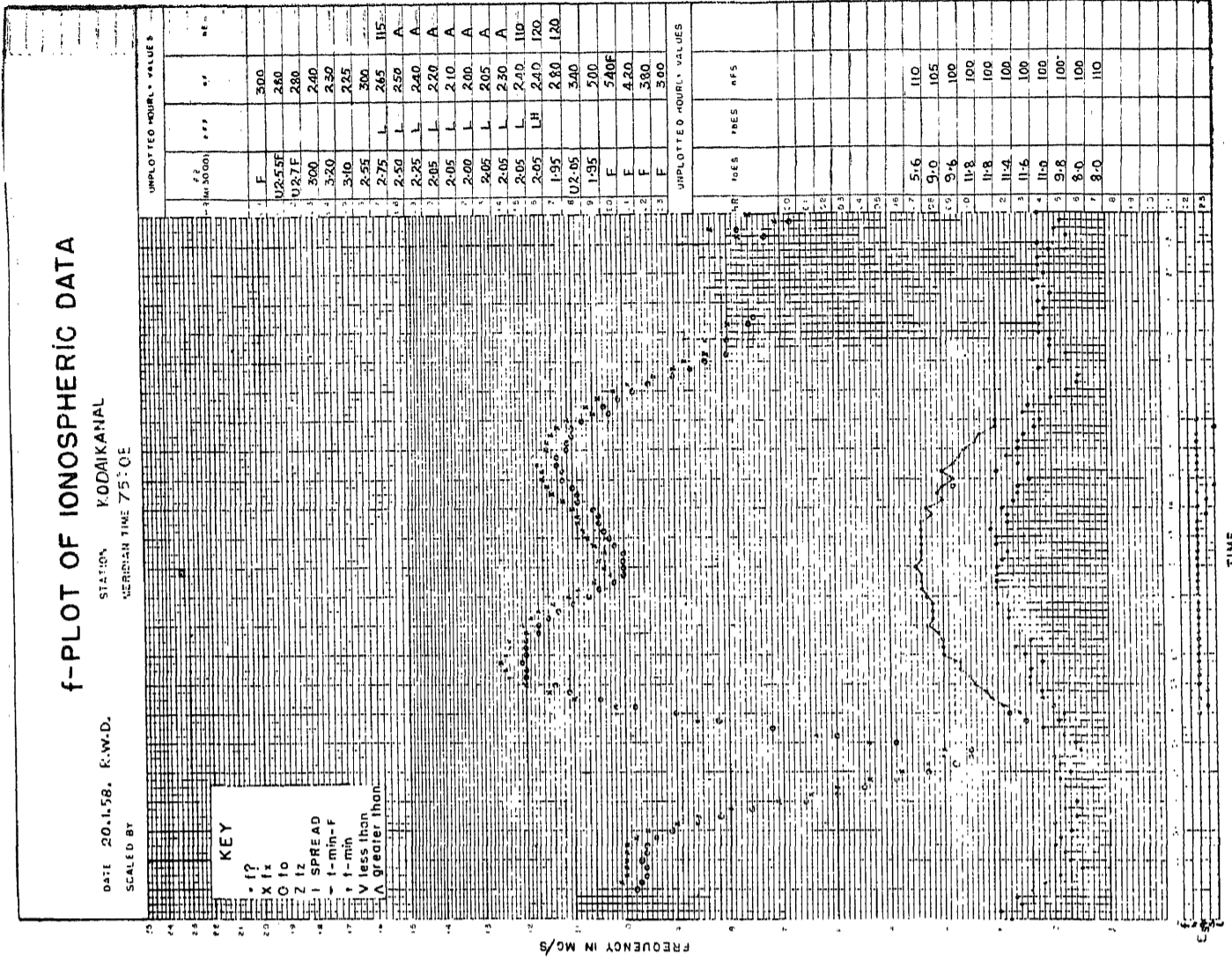
Longitude : 77 5°E

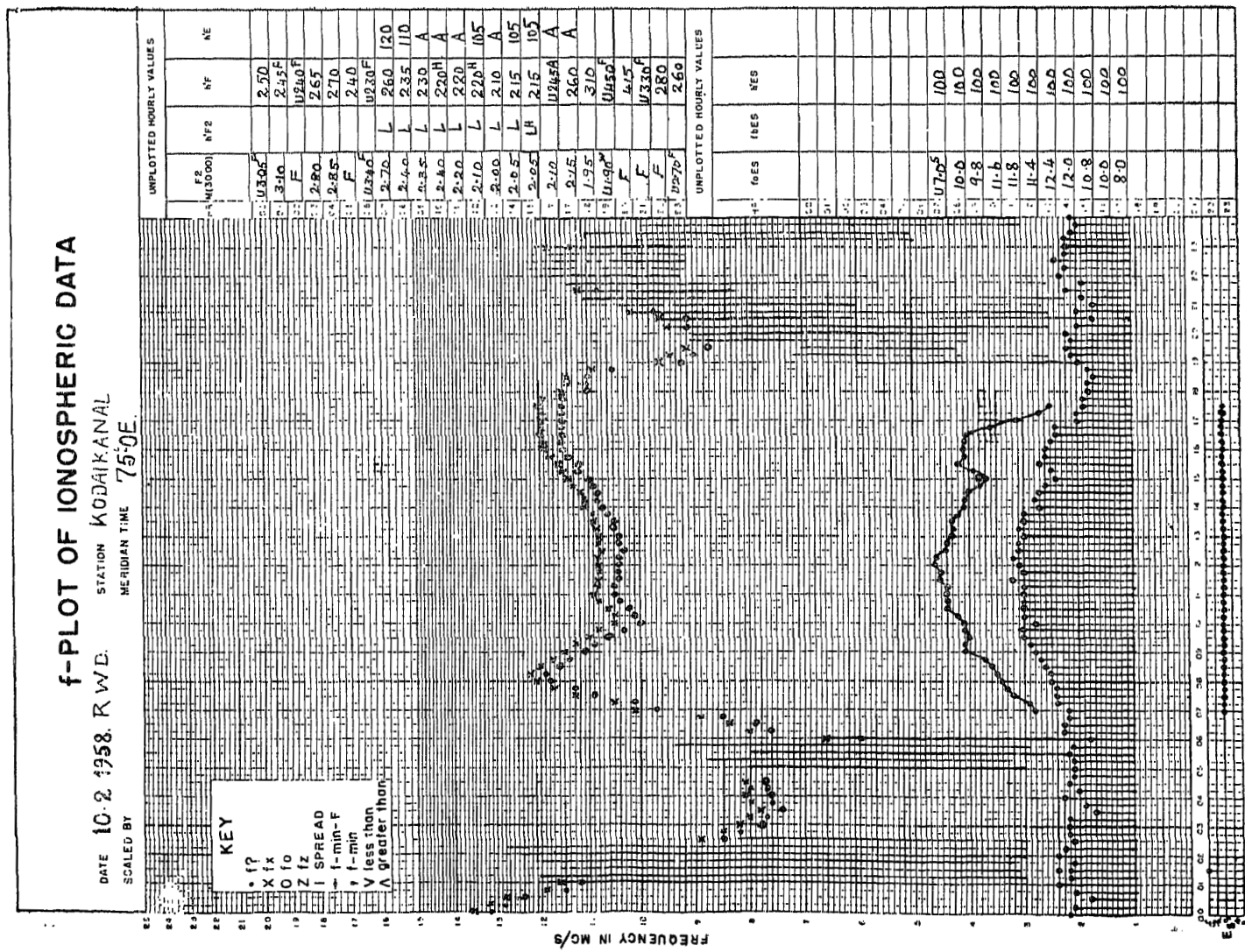
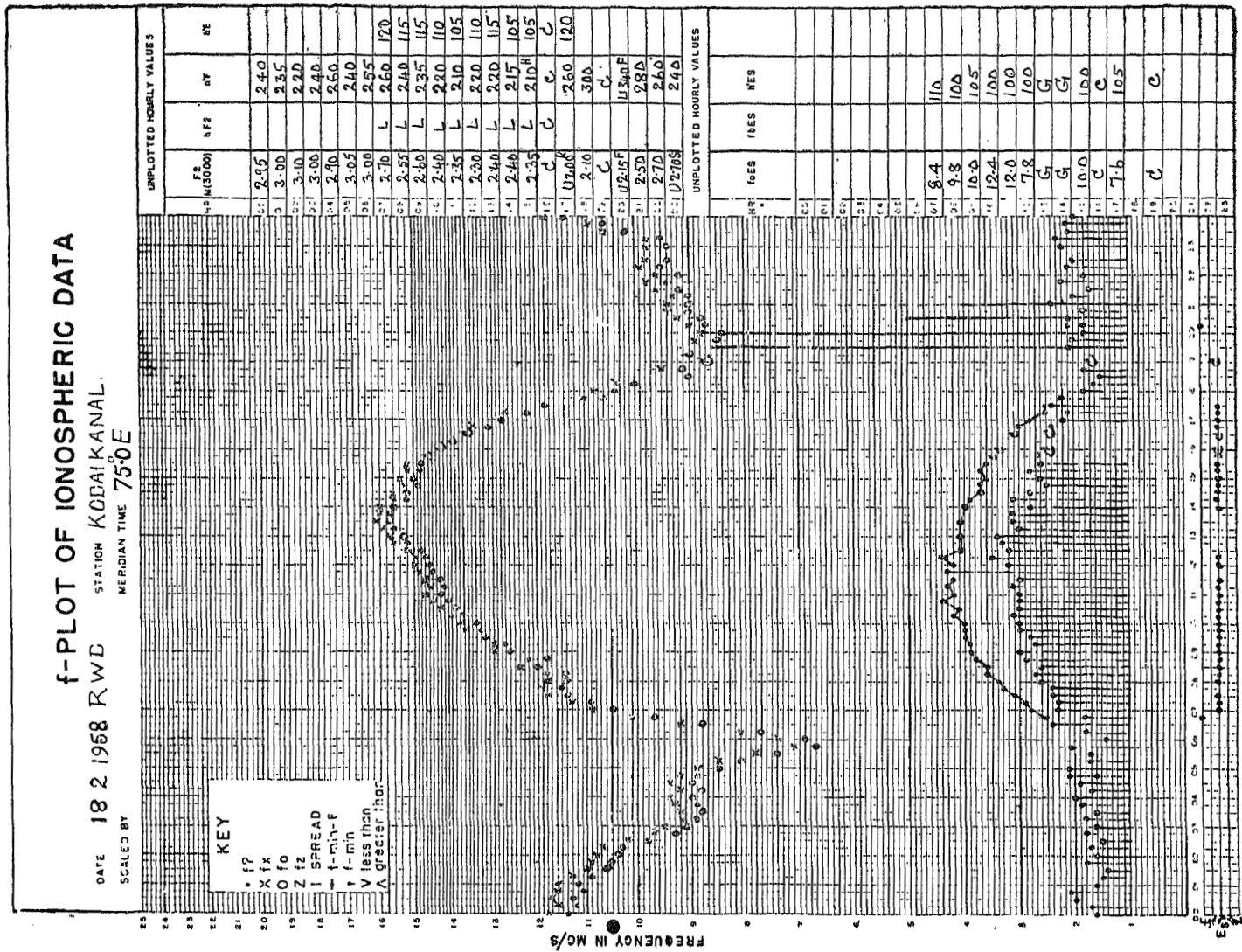
Month June 1958

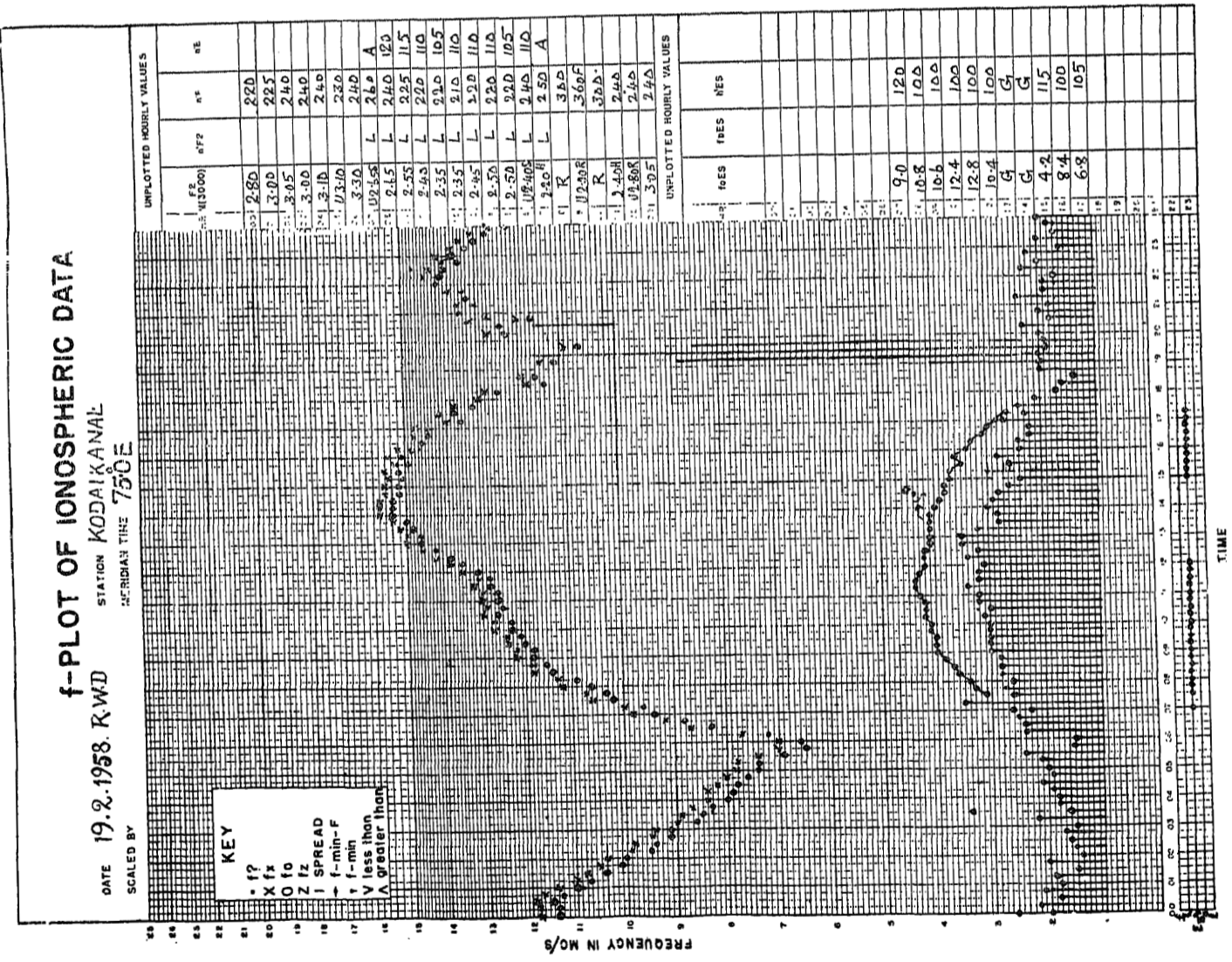
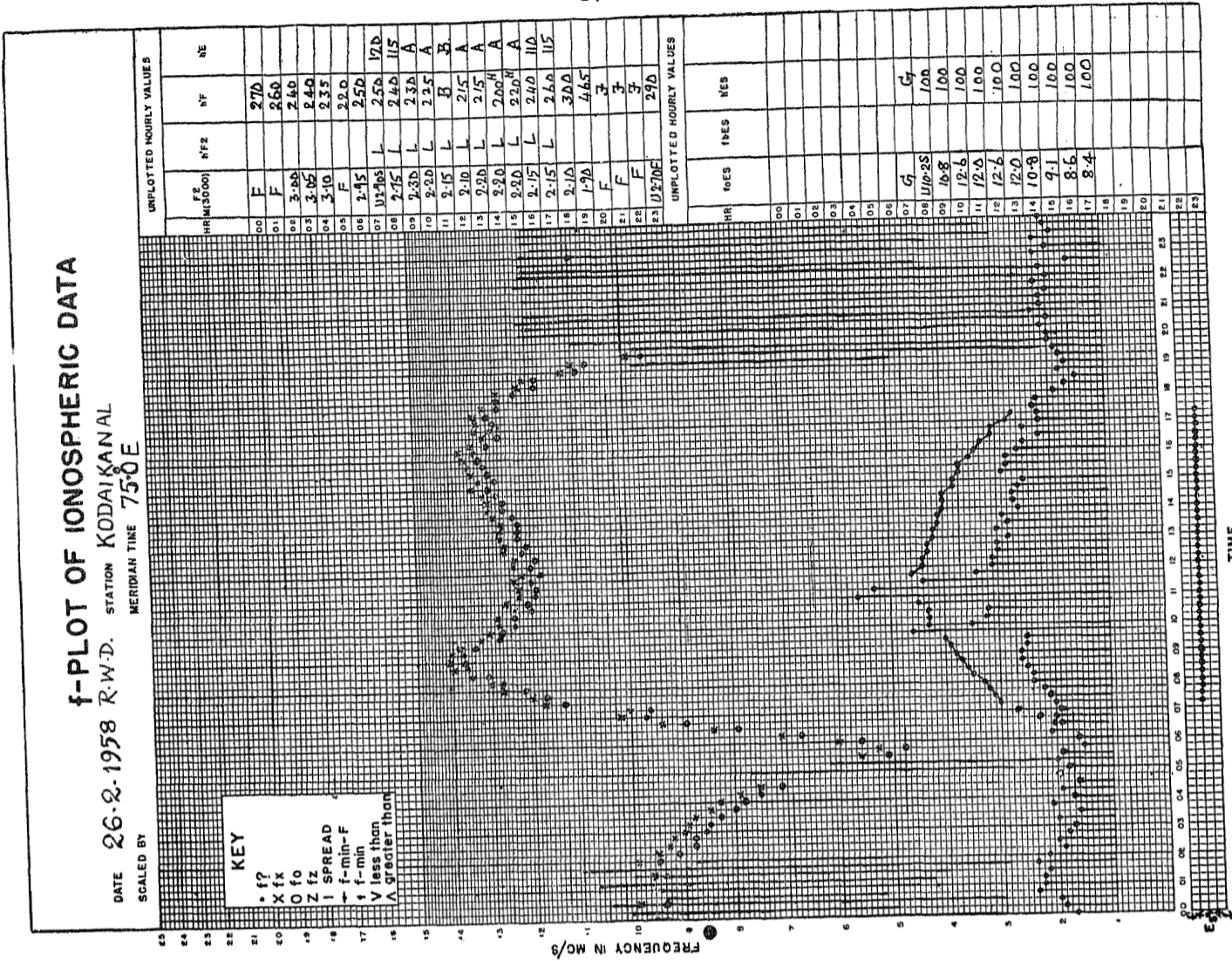
75.0°E Mean Time

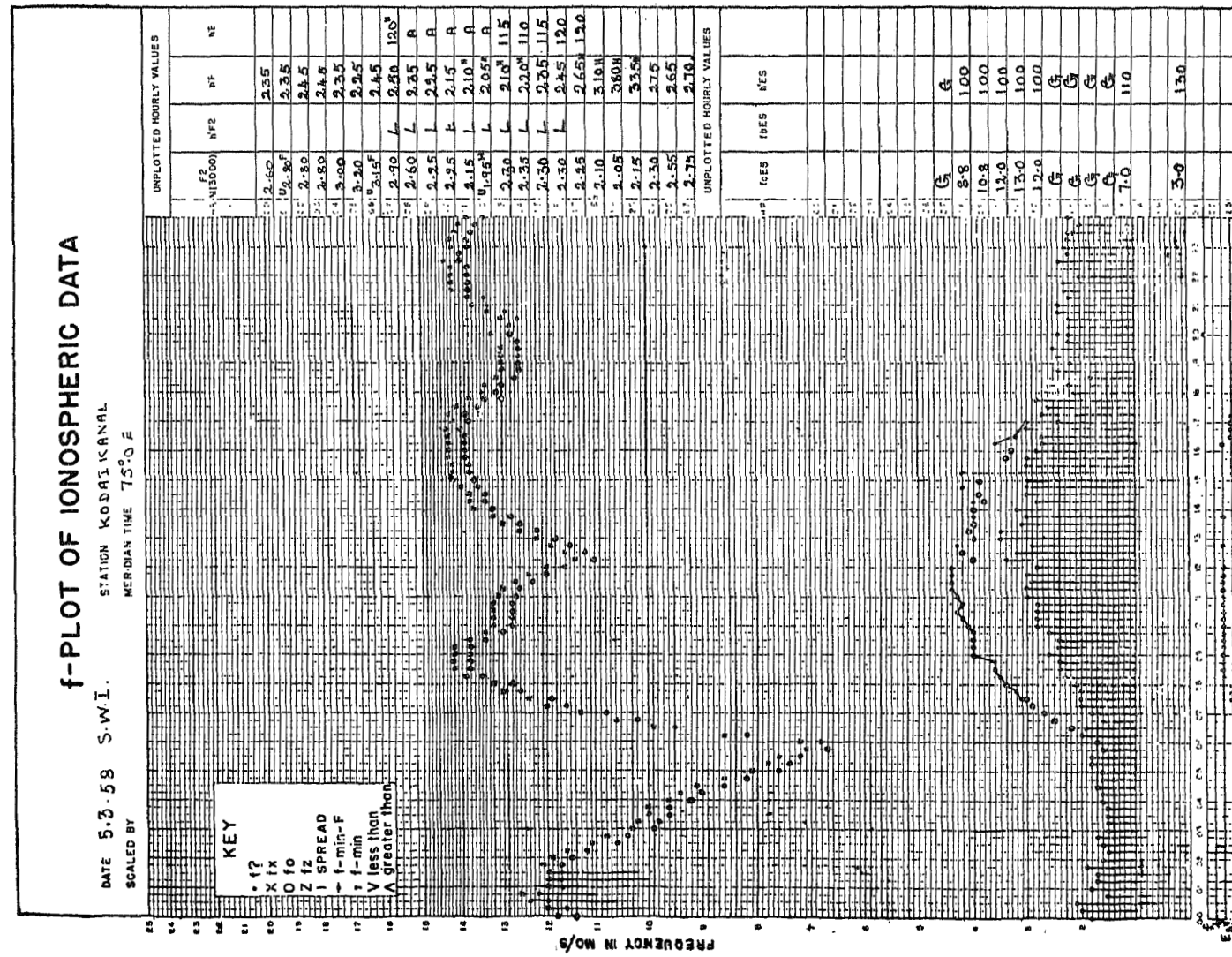
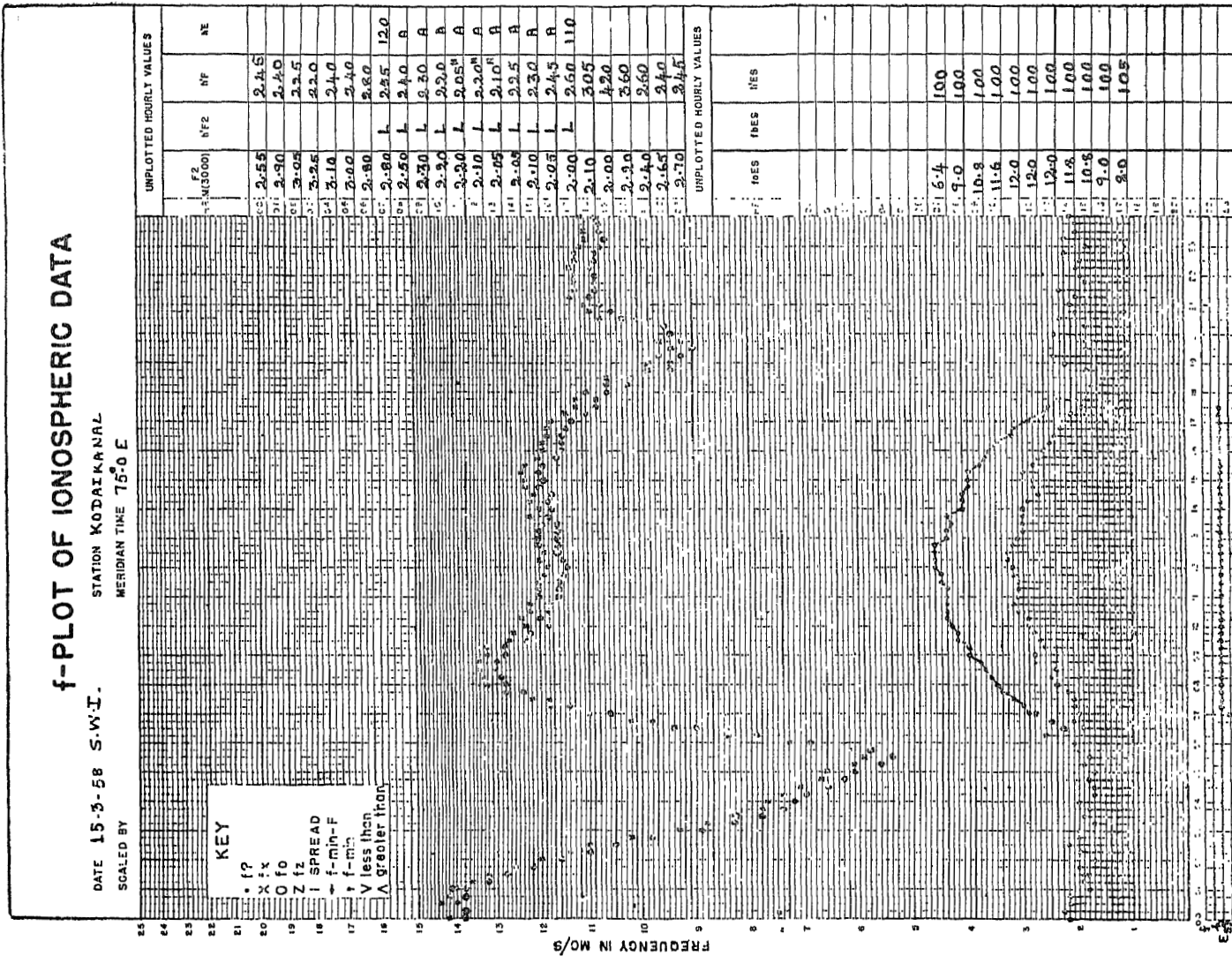
1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2 10	2 10	2 05	2 05	2 15	2 30	2 25	U2 25R	2 20	2 25	2 35	F	1
2 00	2 05	2 05	2 05	2 05	U2 15S	U2 25S	2 05	2 10	2 20	U2 35F	2 50	2
2 10	2 10	2 15	2 10	2 15	2 25	U2 15S	U2 05F	F	F	F	F	3
2 05	2 00	2 00	2 00	2 10	2 05	U2 15S	2 05	F	2 20F	2 30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

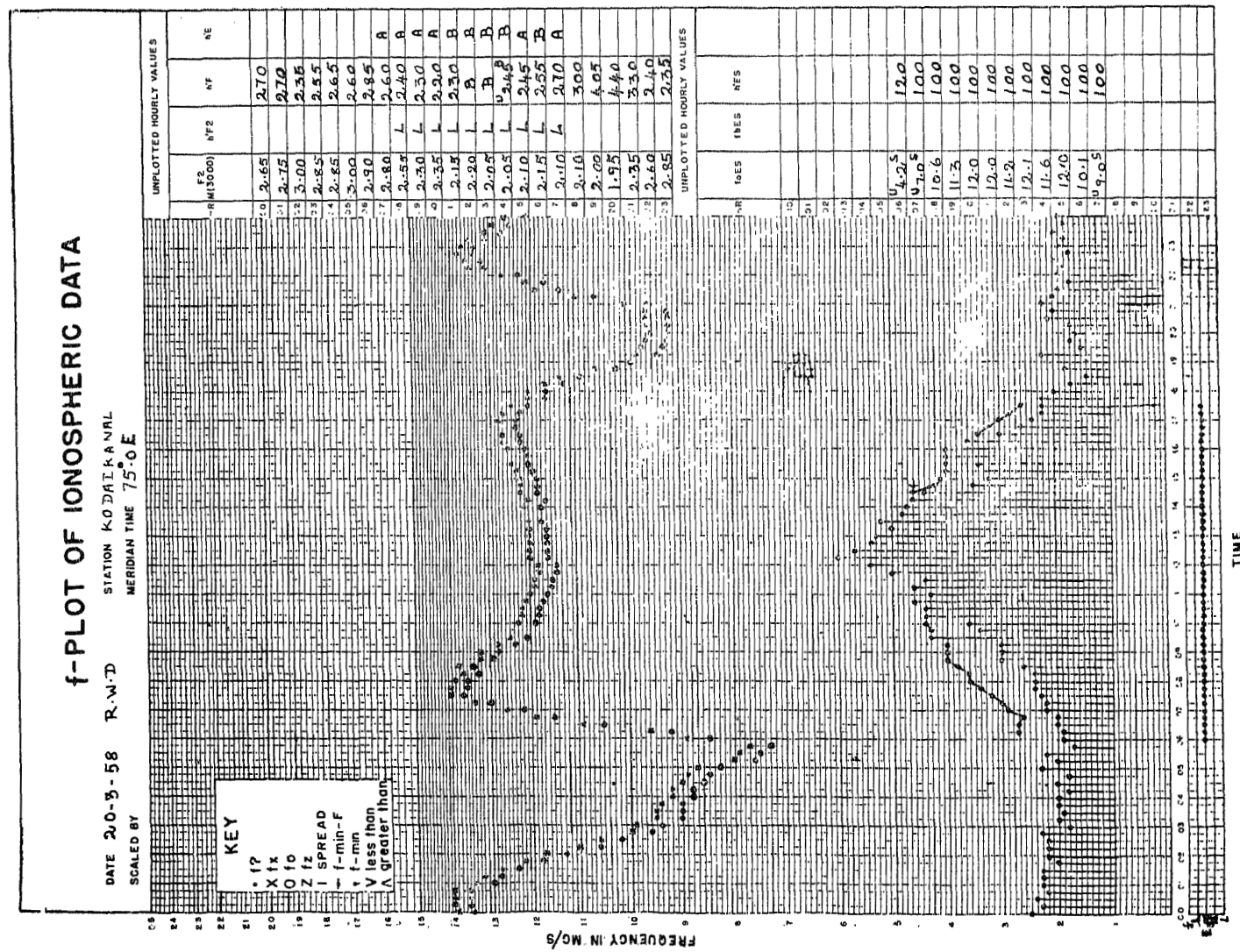
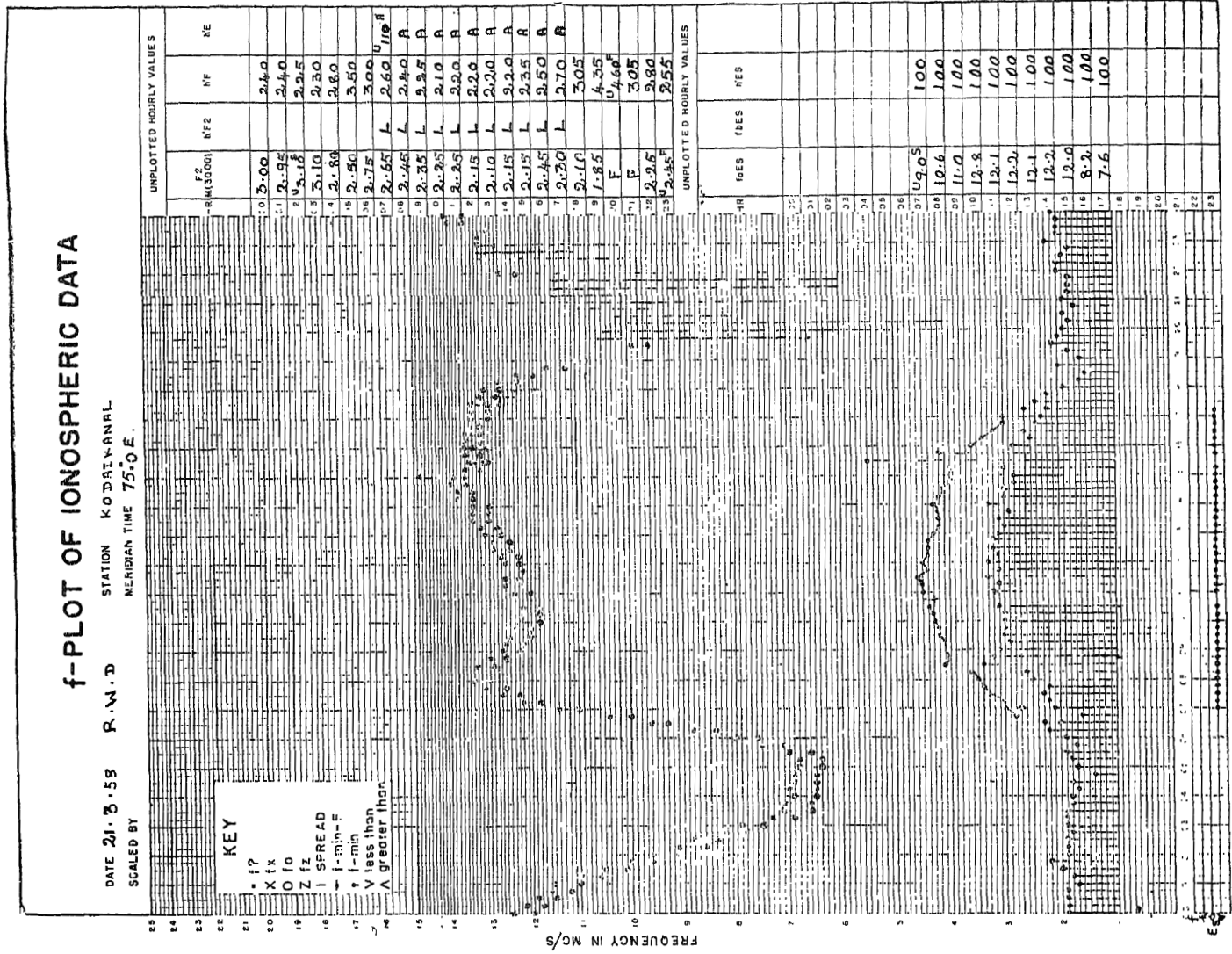
Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

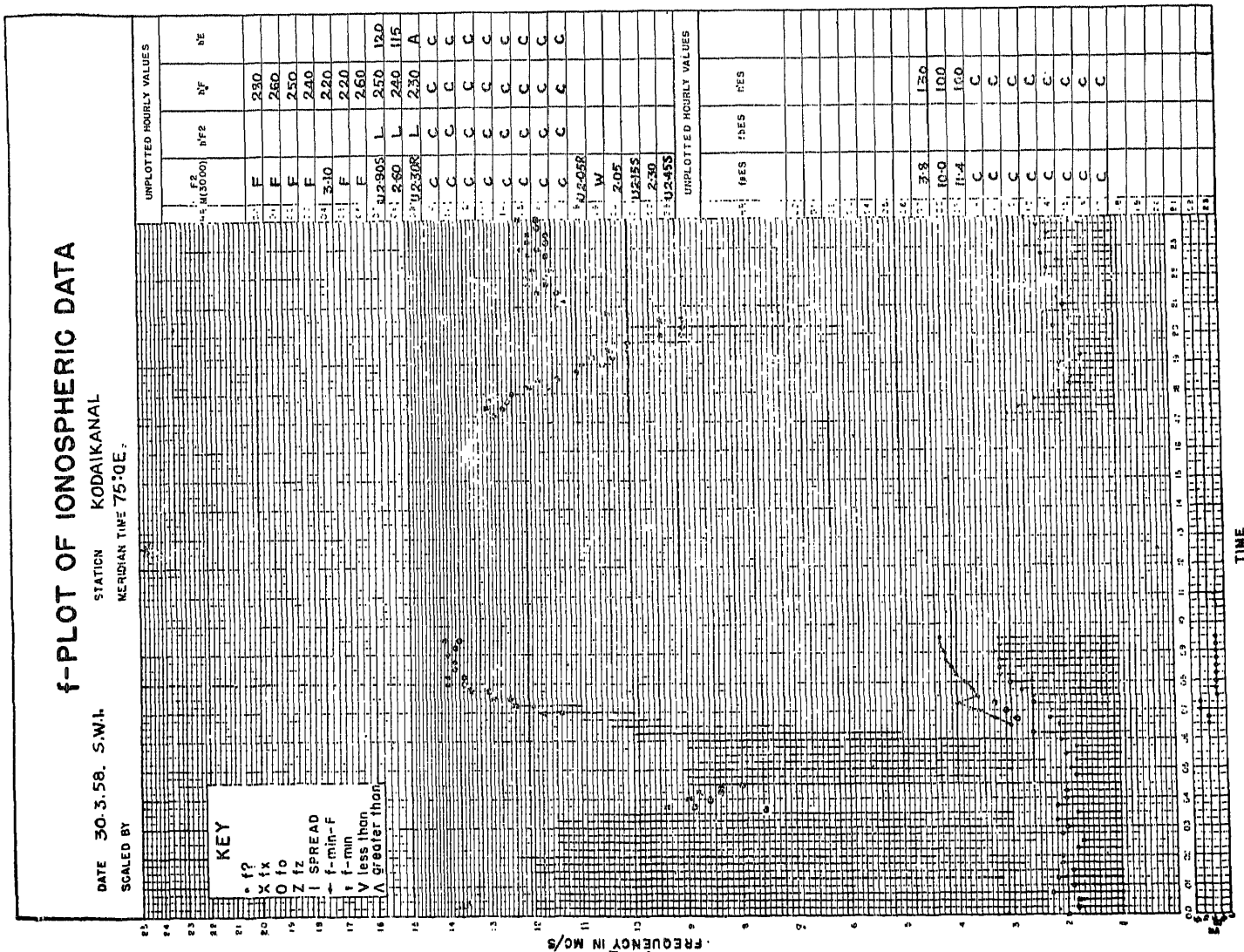
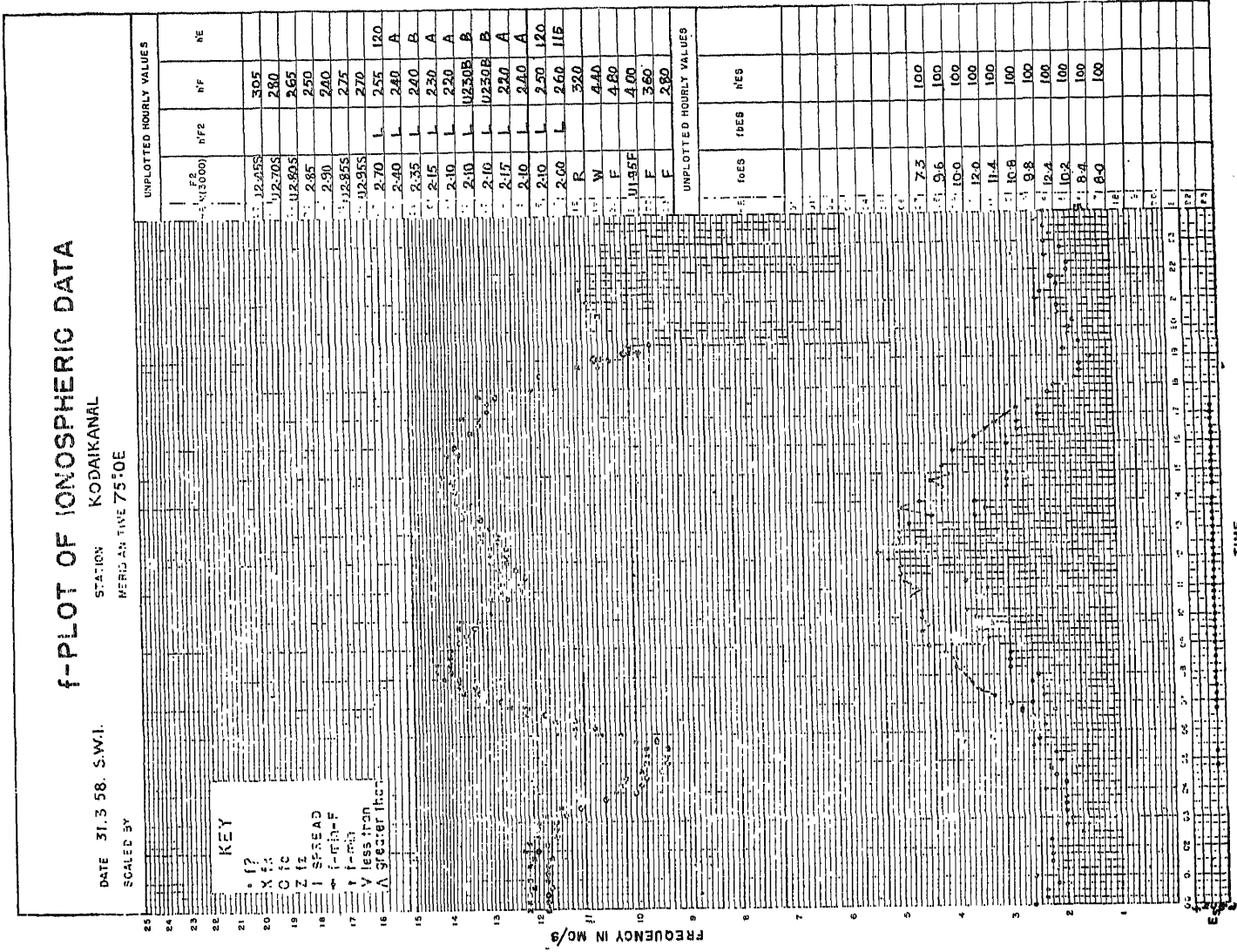


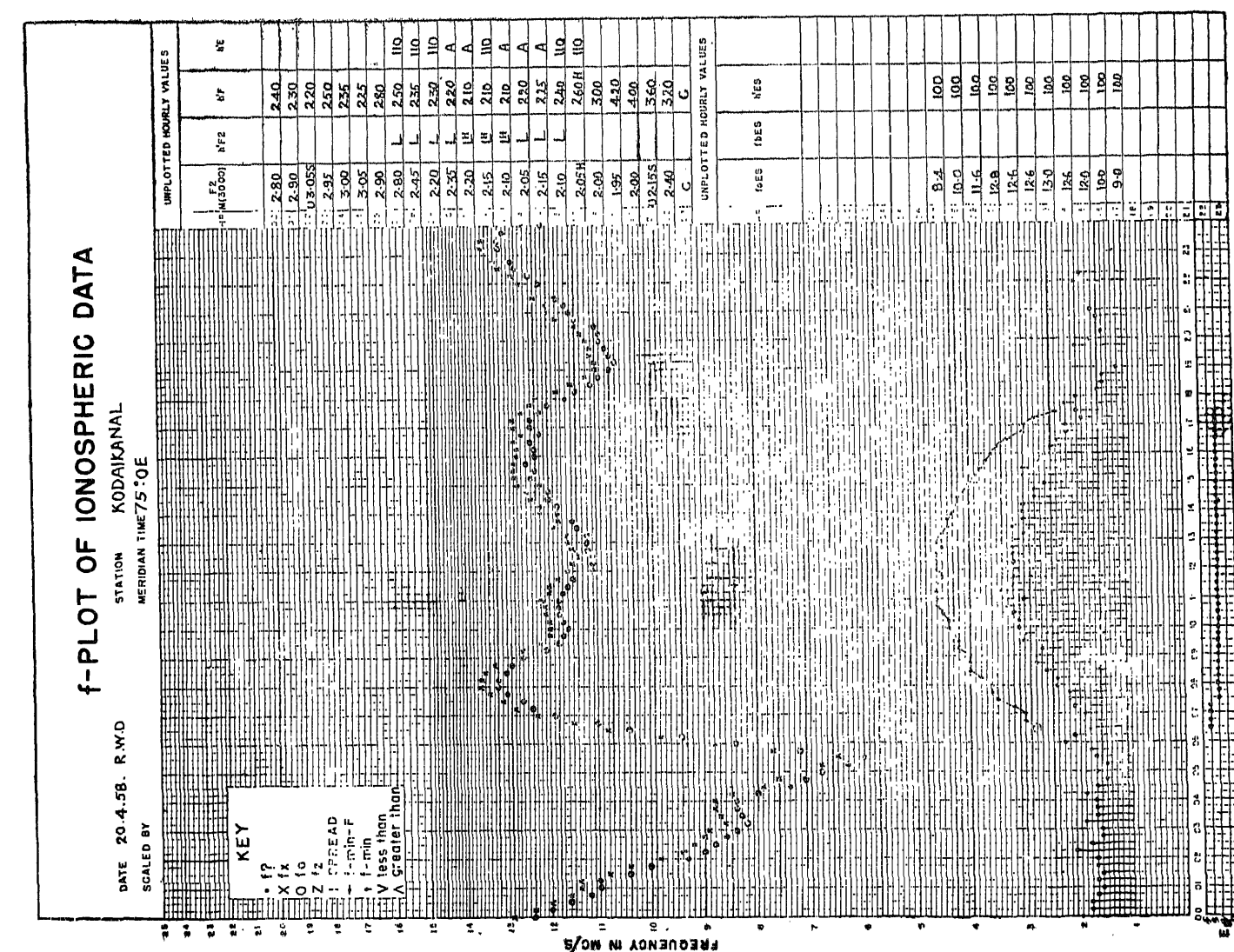
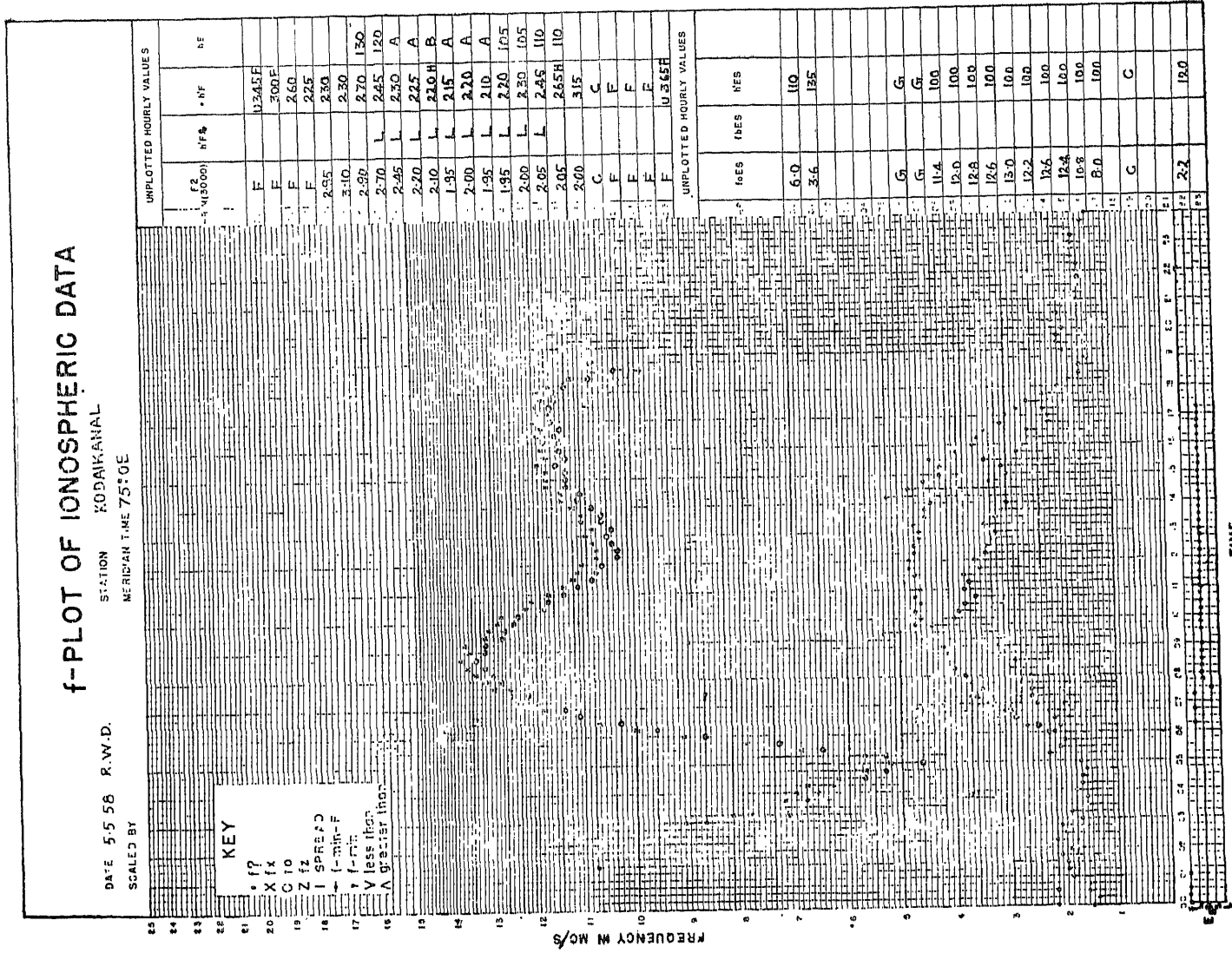


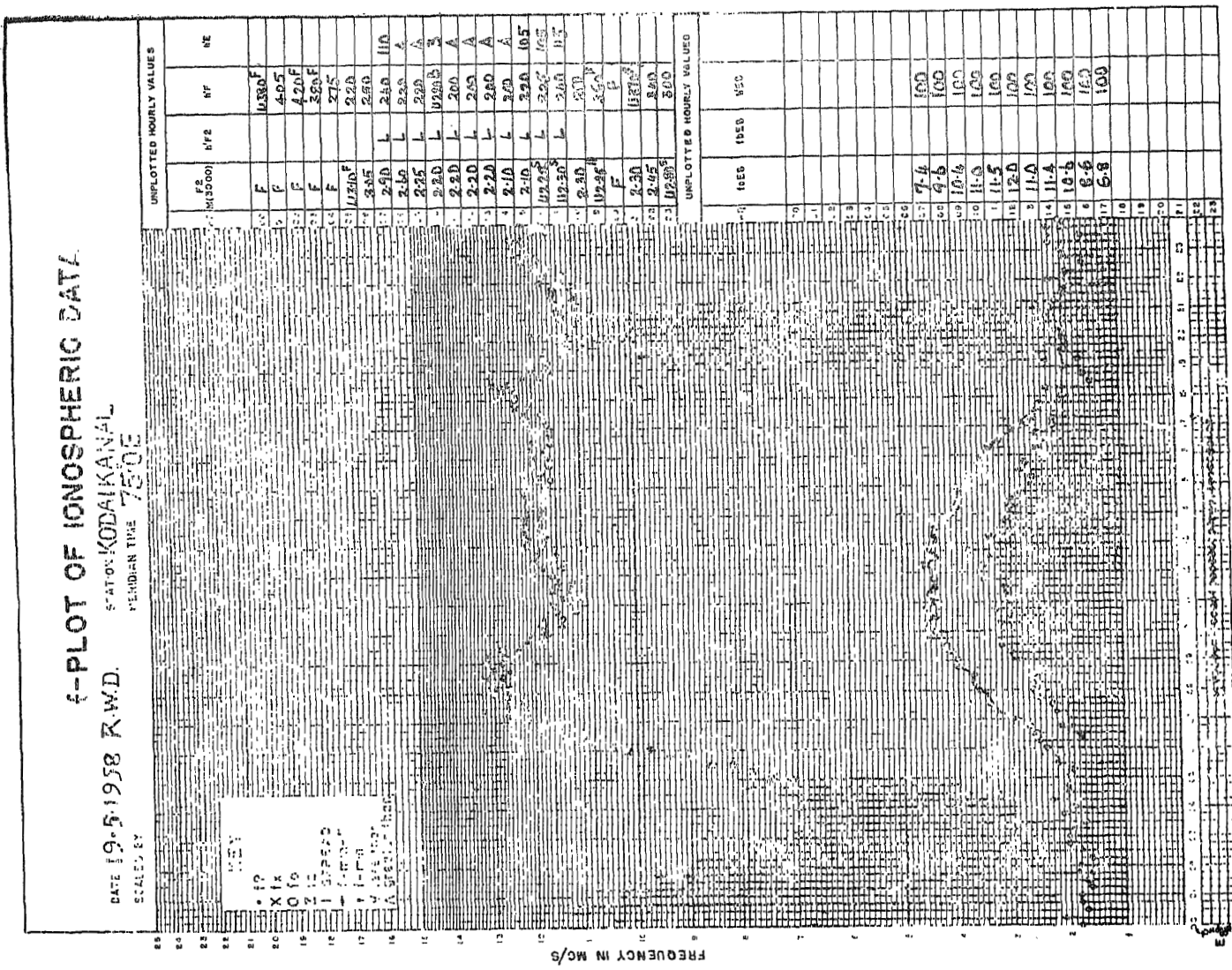


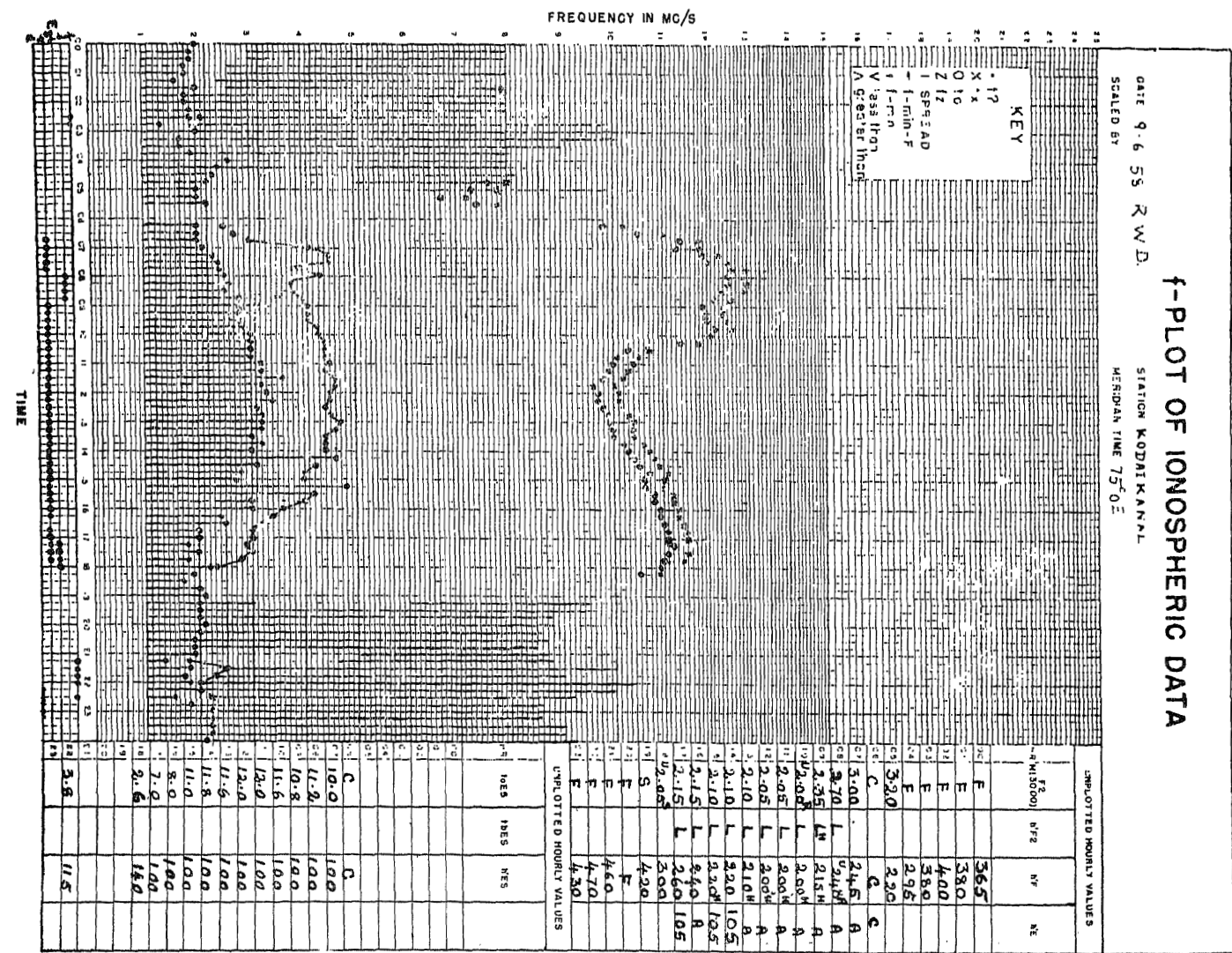
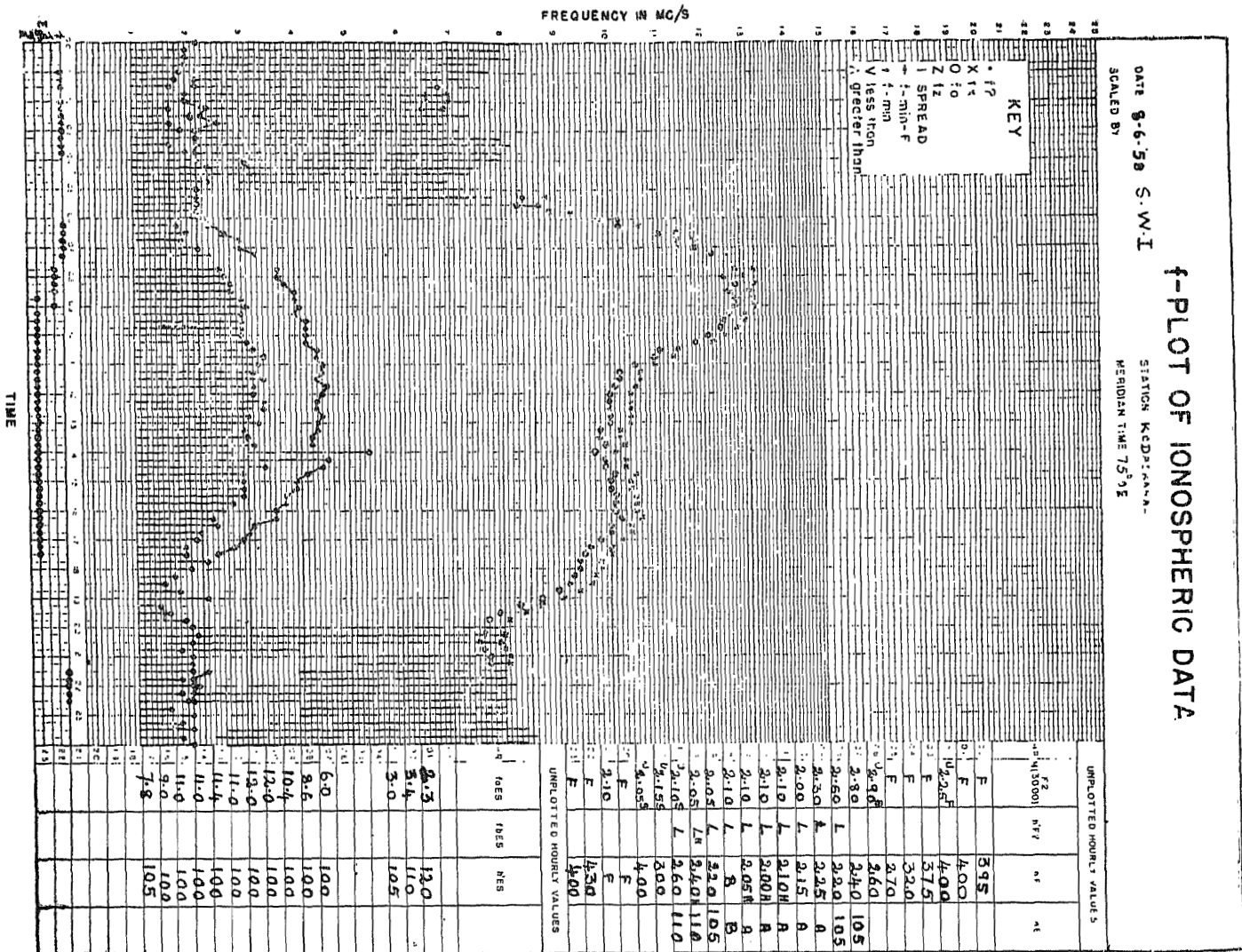


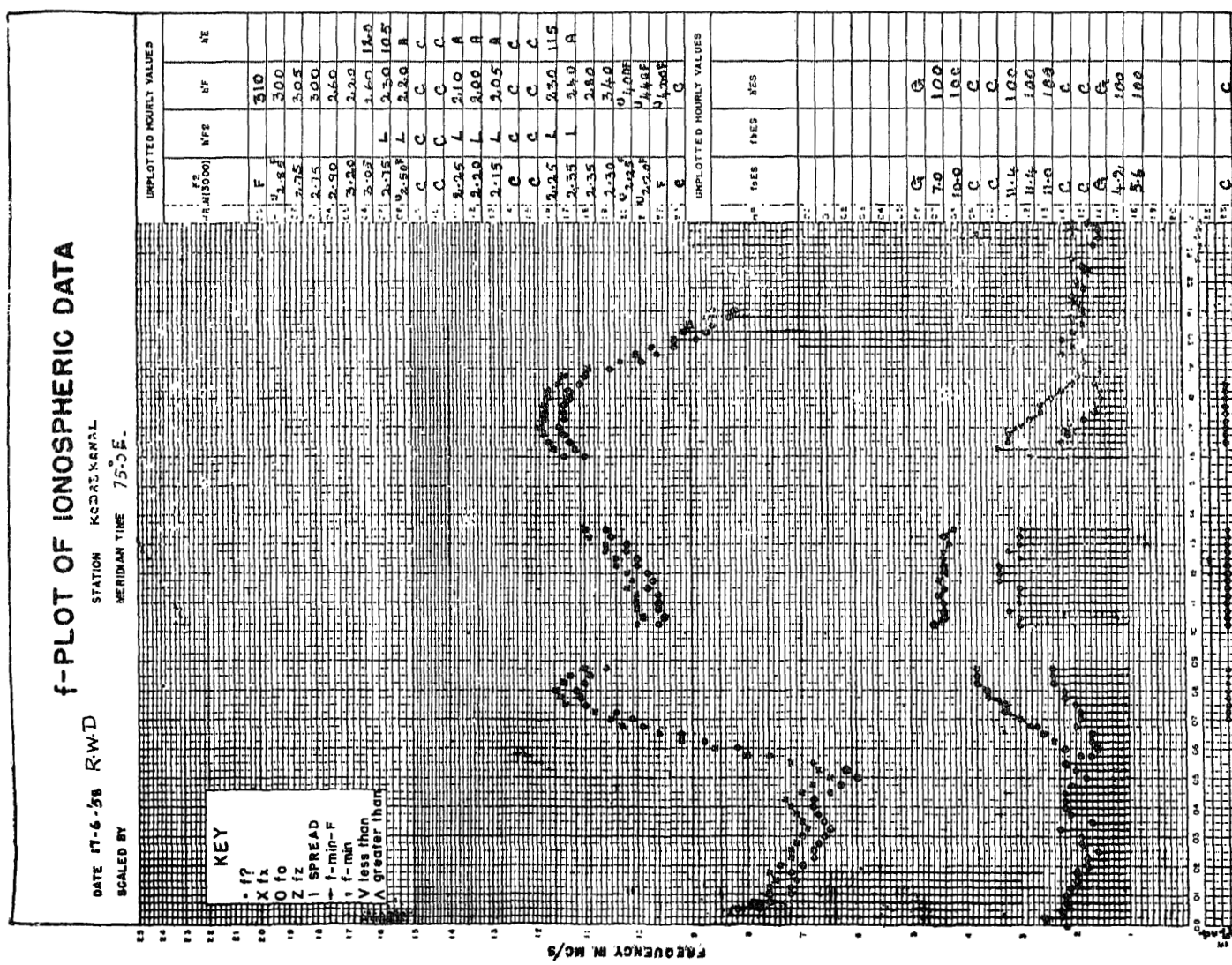
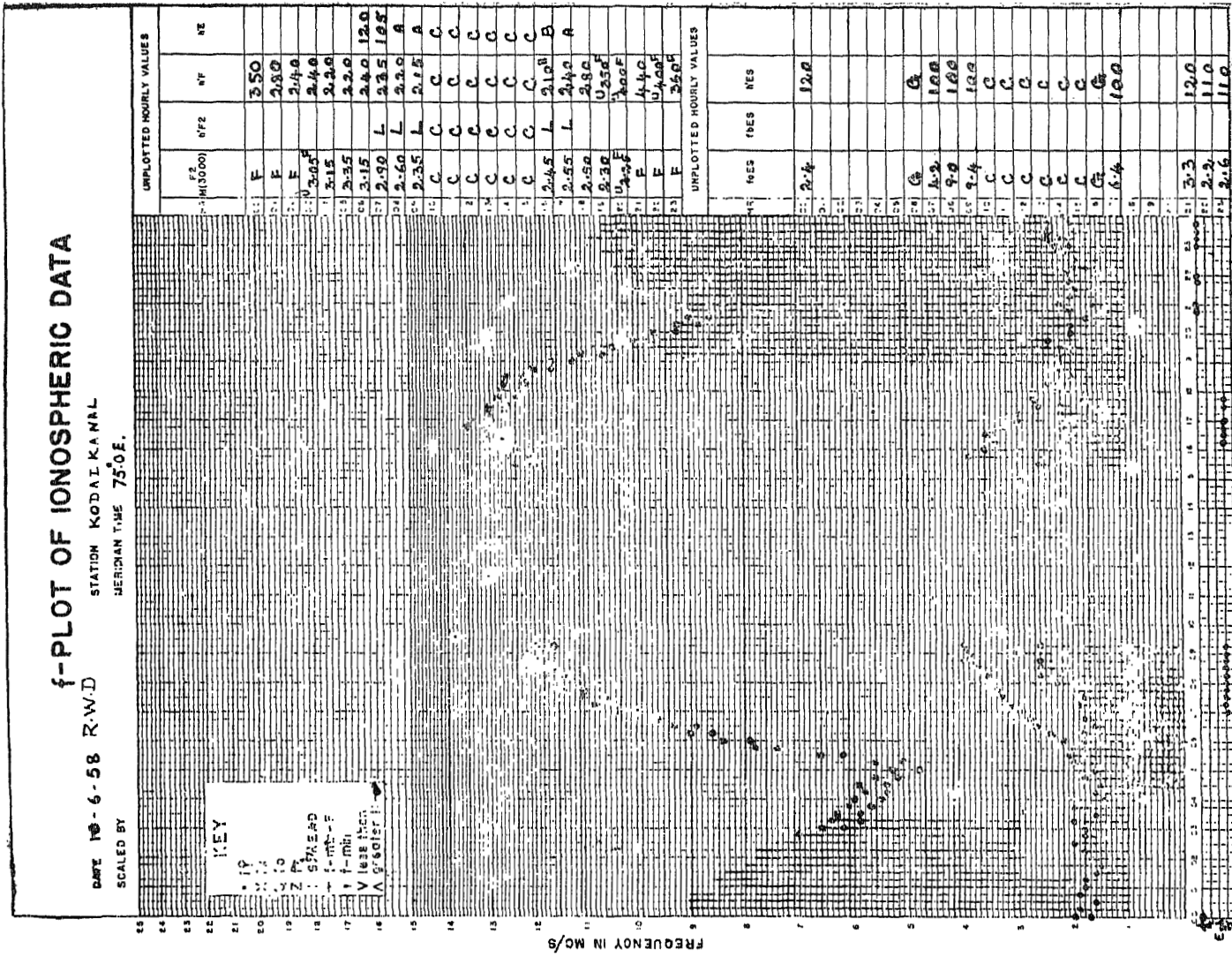












TIME

E R R A T A.

Kodaikanal Observatory Bulletin No. CLVI.

Part - I.

Page.	Table No.	Column.	Date.	Read.	For.
7	IV	5	9 January-APR.	1156	1516
14	VI	4	13 February	1413	1410
14	VI	4	14 February	0813	0811
14	VI	4	15 February	0803	0808
15	VI	2	2 March	0915	0111
17	VI	4	30 March	0810	0817
				0815	0810
18	VI	4	5 April	0755	1155
18	VI	4	9 April	1140	1840
				1426	1126
18	VI	4	10 April	1051	1041
18	VI	4	14 April	0801	0810
18	VI	4	16 April	1502	1507
19	VI	4	4 May	1007	1010
				1011	1017
24	VII	3	23 March	Fair	Poor
		(2nd group)			
47	IX	4	7 April	41	14
		(15th group)			
47	IX	1	8 April	April 8	April
52	IX	7	19 May	01	10
		(Last group)			
58	IX	7	22 June	20	02
		(7th group)			

Page.	Table No.	Line/Date.	Hour/column.	Read.	For.
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Part - II.

66	3	4	13	34.6	31.2
66		16	07	38.9	33.7
68	4	16	00	34.6	34.1
70	5	17	11	36.9	36.5
70		31	14	36.5	36.1
70		Mean	14	35.5	36.5
72	6	2	11	37.2	37.0
77	8	11	15	175	175
77		27	15	520	529
79	9	17	10	450	456
83	11	3	15	509	550
83		4	15	506	503
84	12	11	08	591	491
85		4	23	515	5-5
85		5	23	520	420
85		10	22	482	382
88	14	15	14	337	357
90	15	1	14	324	224
93	16	23	15	327	227
94	17	20	04	329	3-9
95		13	Time (Maximum)	2358	0358
97	18	Mean † †	22	343	303

PART - III.

103	1	11	19	U10.6F	U-0.6F
116	4	1	1130	G	9
127	7	Count	12	1	...
127		Count	14	...	1
128		15	1130	...	470

Contd. 2.

Page:	Table No.	Line/Date.	Hour/column.	Read.
128		21	1130	470
130	8	Mean	11	215
132		30	0530	220
149	12	Count	1230	25
158	15	Count	11	24
167	17	25	23	1.9
175	19	15	15	225
176		25	1130	220
184	21	Count	1130	24
186	22	11	11	1.85
187		14	12	2.00
191	23	17	14	12.8
191		18	14	J 12.0S
198	25	9	11	C
198		10	11	C
198		26	11	A
209	27	18	1430	4.0
230	33	13	11	J 2.10R
232		11	1130	U 2.20C
232		23	1130	2.20
247	37	30	12	13.0
248		17	1130	12.0
262	41	Median	11	220
264		27	1130	215
278	45	5	11	11.4
278		9	10	13.9
278		12	10	11.3
278		13	10	12.3
278		14	10	U 13.9R
278		23	10	11.3
278		30	11	12.3
278		31	11	12.0
281	45	28	1230	9.8
293	48	28	1330	12.0
295	49	Mean	14	4.3
298	50	19	09	2.9
298		26	09	2.9
298		Count	11	28
307	52	19	19	360F
308		3	1130	220H
308		7	1130	200H
308		15	1030	205
318	55	23	01	2.85
319		26	14	2.00
322	56	28	11	9.8
323		Mean	22	U 9.5
345	61	20	1330	3.0
359	65	30	18	100
365	66	12	2230	2.30