

Kodaikanal Observatory

Bulletin No. CLXIV

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PART I

Summary of prominence observations for the Second Half of 1960

The results of observations of prominences made at Kodaikanal Observatory during the second half of 1960 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 this Bulletin.

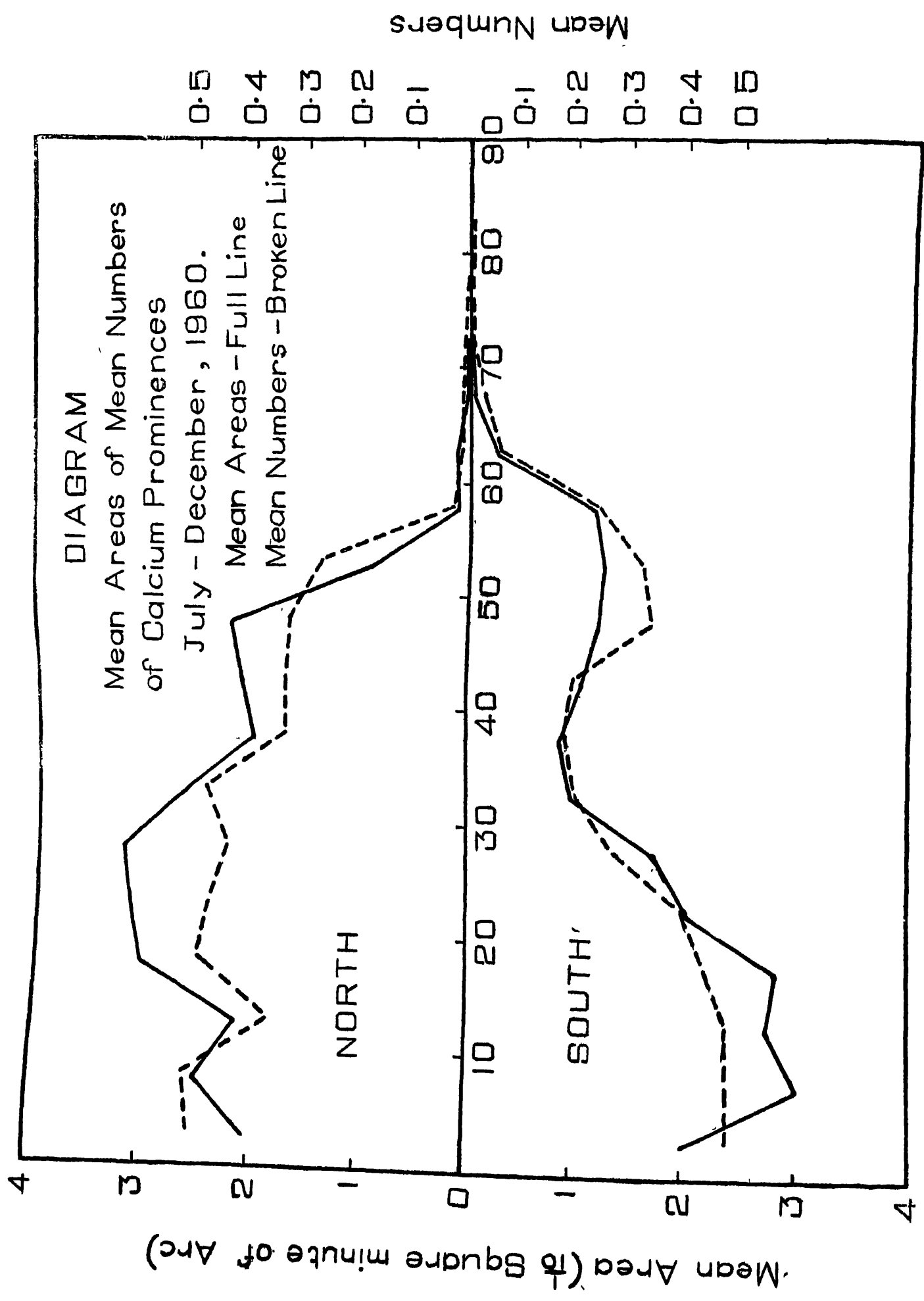
Calcium prominences on the limb.—During the half-year under review photographs of calcium prominences at the limb were obtained at Kodaikanal on 106 days which were counted as 96½ effective days after giving due weightage to the photographs according to their quality. Spectroheliograms for 62 days were obtained from Mount Wilson Observatory and for 56 days from Meudon Observatory. In all, complete observations were available for 161¼ effective days

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

		Combined data	
		Mean daily areas (in sq minutes of arc)	Mean daily numbers
North	. . . . .	2.67	4.65
South	. . . . .	2.14	4.14
Total		4.81	8.79

The figures, when compared with the corresponding values of the previous half-year show an increase of activity, the increase being 32.5% in areas and 25.03% in numbers.

The distribution of areas and numbers in five-degree ranges of latitude as obtained from the combined data is represented in diagram I.



The peak of activity in the northern hemisphere is centered in the latitude belt 20° — 30° . In the southern hemisphere, the peak of activity is in the latitude belt 5° — 10° .

The monthly, quarterly and half-yearly areas, numbers, heights and extents of prominences as derived from all available records are tabulated below :

1960 months	No. of effective days	Area (sq. minutes)	Numbers	Daily means			Mean Extent
				Area (sq. minutes)	Numbers	Mean height	
1	2	3	4	5	6	7	8
July	28	139.0	226	4.96	8.14	54.01	3.95
August	29½	152.2	297	5.12	9.98	50.10	3.16
September	27½	95.7	238	3.51	8.74	38.73	2.84
October	27	143.4	261	5.31	9.67	49.71	3.59
November	22	96.2	157	4.38	7.13	46.40	3.72
December	27½	150.4	239	5.52	8.77	49.50	4.16
3rd quarter	85	386.9	761	4.53	8.95	47.62	3.32
4th quarter	76½	390.0	657	5.07	8.52	48.54	3.82
2nd half-year	161½	776.9	1418	4.80	8.73	48.08	3.57

The distribution of prominences about the sun's axis of rotation is given below :

1960 July—December

	East	West	Percentage East
Total areas (sq. minutes)	3696.5	4060.5	47.6
Total numbers	657.0	761.0	46.3

Observations with the Hale Spectroheliograph

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

	North	South	East	West	Displacements To red & violet
1	2	3	4	5	6
Displacements in prominences	14	8	7	15	22
Displacements in dark-markings	2	1	2	1	3

Solar Flares

Details of solar flares observed during the period are given in the following table —

Date 1960	Time in U.T.			Mean Latitude	Mean Longitude from central meridian	Impor- tance	Maximum width of H- alpha line observed A°
	Beg H M.	Max H M	End H M.				
1	2	3	4	5	6	7	8
July 20	*05 30		**05 40	20° N	48° W	1	1.80A°
August 8	*05 00	05 00	05 05	22° N	70° E	2	1.28
11	02 47	03 04	03 15	21° N	33° E	2	2.08
14	*05 35	05 40	**05 47	20° N	13° W	3	1.80
15	*05 25	05 25	05 40	19° N	25° W	1	1.68
September 2	*02 50	02 50	03 05	14° S	54° W	2	1.76
October 11	*05 34	05 41	06 30	13° S	35° W	2	..
December 30	03 52	04 06	04 15	15° N	23° E	3	1.88

*First observation of flare and not the beginning of flare.

**Last observation of flare and not the end of flare.

Surges, Active Prominences etc.

Details of surges and active prominences observed are given below

Date 1960	Pheno- menon	Impor- tance	Time in U T		Position (Hellographic)		Direc- tion of outflow	Remarks
			Beg.	End.	Latitude	Longitude		
19-8-1960	APR	2	04 05	08 44	08° S	90° E	r	K
29-8-1960	BSL	1	05 50	06 25	07° S	90° W	r	
3-9-1960	BSL	2	02 10	05 50	18° N	90° W	rN	Displaced to red 1.6A° and to violet 1.92A at 0525 U.T.
19-11-1960	BSL	1	02 52	03 03	26° N	90° W	r	
19-11-1960	APR	1	05 10	09 00	62° N	90° W	r	J
27-11-1960	APR	2	05 41	06 30	28° N	90° W	r	L
30-12-1960	APR	1	02 50	06 02	15° S	90° E	r	K

Code :

BSL=Bright surge at lumb.

APR=Active prominence region.

Sudden disappearances

Details of sudden disappearances of prominences and dark-markings are given in the following table:

1960 Date and Phenomenon	Time when object last ob- served before activa- tion U.T.	Time when disin- tegra- tion first obser- ved U.T.	Time when object has dis- appea- red U T	Approximate Position of Centre		Greatest exten- sion of promi- nence	Impor- tance	Remarks
				Lat.	Long.			
September 4 Prominence	02 30	..	05 20	17° N	90° W	10°	1	Most of the pro- minence dis- appeared by 05 20 hrs.
November 30 Prominence	03 13	..	05 04	19° N	90° W	7°	1	Most of the pro- minence disappeared by 05 04 hrs.
December 11 Prominence	03 05		03 11	51° N	90° W	8°	1	Prominence dis- appeared bet- ween 03 05 hrs. and 03 11 hrs.

Prominences projected on the disc as absorption markings

During the half-year under review photographs of the sun's disc in H-alpha line were obtained at Kodai-kanal on 98 days. Spectroheliograms for 65 days were obtained from Mount Wilson Observatory and for 59 days from Meudon Observatory. On the whole records were available for 148 effective days.

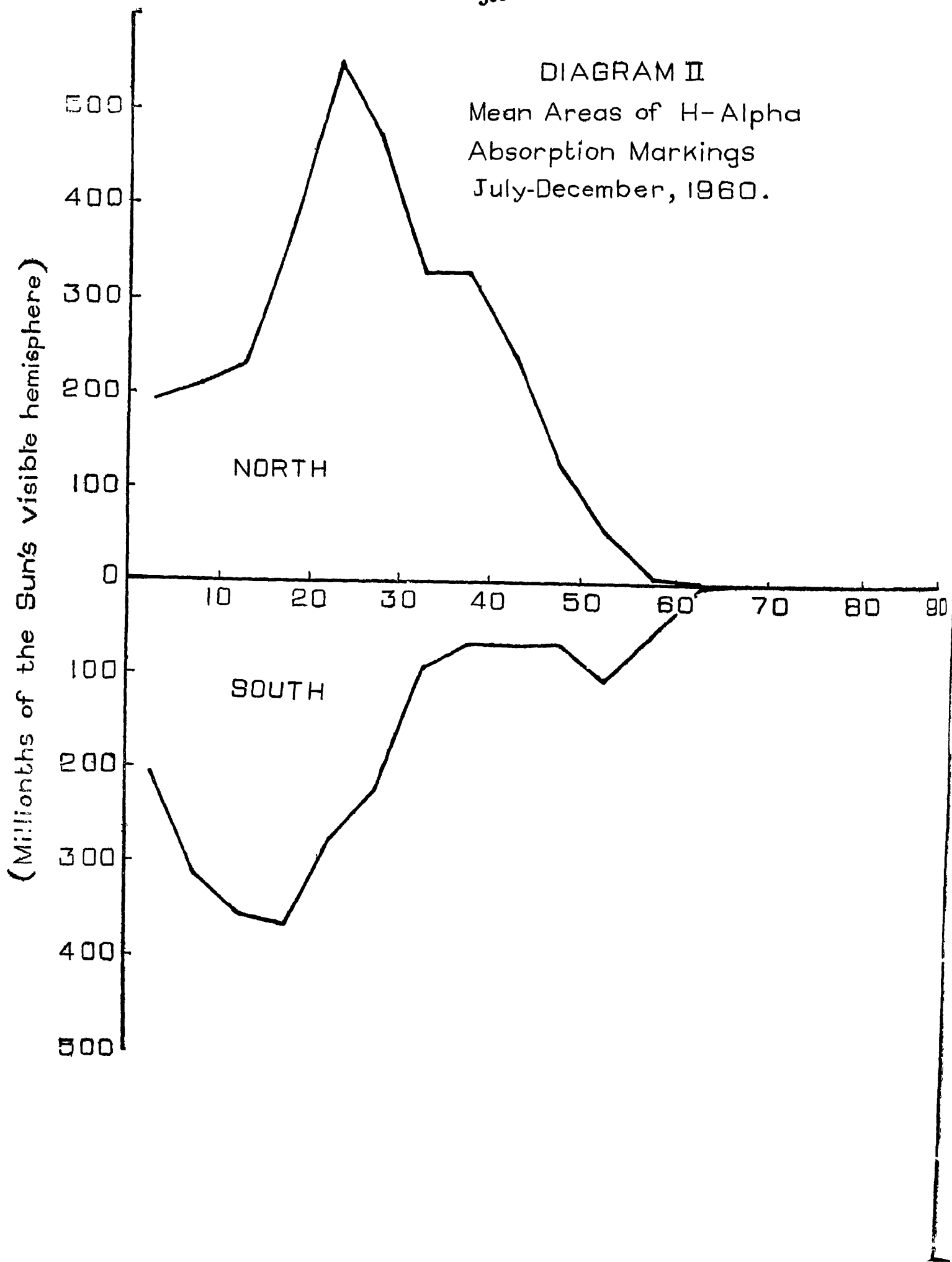
The mean daily areas in millionths of the sun's visible hemisphere (uncorrected for foreshortening) and the mean daily numbers of the H-alpha dark-markings as derived from the combined photographs are given below .—

	Combined data	
	Mean daily area (millionths of the sun's visible hemisphere)	Mean daily number
North	3088	18.71
South	2246	13.23
TOTAL	5334	31.94

On comparing with the previous half-year's values, these figures show an increase in activity in areas, the increase being 8.6% and a slight decrease in activity in numbers, the decrease being 2.2%.

The distribution of the areas of the absorption markings in 5 degree ranges of latitude as obtained from the combined data is shown in diagram II. The zone of maximum activity in the northern hemisphere is in the latitude belt 20°-30° and in the southern hemisphere in the latitude belt 10°-20°.

DIAGRAM II
Mean Areas of H-Alpha
Absorption Markings
July-December, 1960.



The distribution of total areas and numbers of the dark-markings east and west of the sun's axis of rotation is given below :

July—December 1960

	Combined data		
	East	West	Percentage East
Total area (millionths of the sun's visible hemisphere)	5940	6760	46.8
Total numbers	2583	2345	52.4

The areas show a slight eastern deficit whereas there is a slight eastern excess in the numbers

Summary of calcium flocculus observations

During the half-year under review, calcium flocculus photographs were obtained at Kodaikanal on 121 days. Spectroheliograms for 53 days were obtained from Mount Wilson Observatory and for 56 days from Meudon Observatory. On the whole, records were available for 165½ effective days.

The distribution of the areas of calcium flocculus east and west of the sun's axis of rotation is given below :—

July—December, 1960

	Combined data		
	East	West	Percentage East
Total area (in millionths of the sun's visible hemisphere uncorrected for foreshortening)	12,92,187	13,91,000	48.1

The mean daily area in millionths of the sun's visible hemisphere (uncorrected for foreshortening) of the calcium flocculi as derived from the combined photographs is given below :—

	North	South	Total
Mean daily area (millionths of the sun's visible hemisphere)	10,929	5,856	16,185

Compared to the previous half-year there is a decrease in activity, the decrease being 32.3%.

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

PART II

Magnetic observations for the second half of 1960

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

The adopted values of the scale coefficients for the Horizontal Force, Vertical Force and Declination magnetographs for the second half of 1960 were 28 γ /Cm., 120 γ /Cm and 14'/Cm respectively.

PART III

Ionospheric Observations for the second half of 1960

A description of the system of ionospheric observations at Kodaikanal 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 eleven ionospheric parameters viz, foF₂, foF₁, foE, foEs, fbEs, f-min, h'F₂, h'F, h'E, h'Es and (M₃₀₀₀)F₂ with symbols and terminology as recommended by the Special Committee on Worldwide Ionospheric Soundings to the URSI/AGI in its First Report (Brussels, September 2, 1956).

Kodaikanal Observatory.

March, 1963.

M. K. VAINU BAPPU,

Director.

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MAGNETIC DATA

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TABLE 1

Hourly values of Declination (Westerly), 1960
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2° plus tabular quantities

Month : July

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	37.9	36.6	36.0	36.4	37.1	38.4	39.5	40.6	40.1	39.6	39.4	38.2	38.2	38.0	38.2
2	38.2	38.0	36.7	36.6	36.8	38.1	39.4	39.6	39.6	39.4	38.7	38.0	37.1	38.0	38.4
3	38.2	38.1	37.1	37.0	36.6	37.1	38.2	39.2	39.6	39.5	38.9	37.1	36.8	37.0	37.8
4	37.7	36.6	35.6	35.7	36.7	37.8	38.9	39.5	39.7	39.6	39.0	38.6	38.1	36.9	37.2
5	37.1	36.5	35.8	35.7	36.4	37.8	38.9	39.6	39.9	39.6	38.6	38.1	37.4	36.8	36.9
6	37.8	36.9	36.8	36.8	37.8	39.2	39.9	39.7	39.9	39.3	38.1	37.1	36.8	36.5	36.9
7†	36.8	36.4	35.8	36.6	37.3	38.4	39.4	39.4	39.6	39.7	38.4	37.9	37.0	37.0	37.9
8†	37.2	36.6	36.5	36.9	38.2	39.8	39.7	39.8	39.8	38.7	37.9	37.0	37.3	37.3	37.9
9†	36.9	36.2	35.9	36.5	37.2	38.6	39.8	41.5	41.2	40.1	38.9	38.2	37.7	37.6	38.3
10	37.0	36.8	36.8	36.9	37.3	39.0	39.8	39.9	39.4	38.7	38.4	38.3	38.1	38.1	38.1
11	37.0	36.6	35.9	36.7	38.4	39.8	40.8	41.8	40.9	39.8	38.5	37.3	37.1	37.0	37.6
12	37.0	35.7	35.5	36.1	37.1	38.4	38.6	39.3	38.9	38.6	38.2	37.1	36.8	36.5	37.2
13	37.1	36.0	35.6	35.7	36.4	38.1	38.6	39.8	39.9	39.2	38.4	37.8	37.3	37.0	37.2
14††	37.2	36.7	36.8	36.1	37.0	37.9	38.6	39.8	40.0	39.6	38.2	37.1	36.8	36.7	36.8
15††	37.0	36.4	36.1	36.9	37.8	38.5	38.7	39.7	39.3	38.6	37.1	36.8	35.8	34.3	34.4
16††	34.7	33.0	32.7	33.7	34.4	35.9	36.5	37.1	37.2	37.2	38.2	38.3	35.7	34.5	35.2
17	36.5	35.5	34.4	34.5	35.8	37.3	38.6	38.6	38.6	38.2	38.0	37.3	36.9	36.4	36.8
18	35.9	34.7	34.4	34.5	35.8	38.3	40.0	40.7	41.1	40.8	40.1	38.8	38.3	37.4	37.6
19††	36.5	35.9	35.9	36.0	36.9	37.4	38.0	39.1	38.8	38.6	37.3	36.0	35.9	36.5	37.3
20	35.8	35.8	34.6	35.9	37.6	39.8	41.1	41.4	40.4	39.4	38.7	38.7	37.4	37.3	38.0
21	37.2	35.8	36.3	35.8	37.2	37.9	39.6	40.3	40.1	40.6	40.1	39.3	38.6	38.5	38.6
22	37.2	36.2	35.8	36.5	38.3	39.3	39.7	39.9	39.7	38.7	38.0	37.6	38.2	38.5	38.7
23	37.2	36.8	36.5	37.1	38.3	39.6	40.7	41.3	40.8	40.0	38.9	37.9	37.9	38.0	38.6
24	37.8	37.1	36.4	36.6	37.2	38.5	38.7	40.0	40.0	39.3	38.6	37.9	38.0	38.6	38.7
25†	37.9	36.9	36.4	37.0	38.5	39.8	41.0	41.4	41.0	40.6	40.5	39.6	38.5	38.4	38.6
26	37.7	36.7	36.8	37.1	37.8	39.2	39.6	39.6	41.3	41.0	39.3	38.4	38.1	37.5	38.4
27†	37.7	37.0	36.3	36.7	37.2	38.2	39.2	39.8	40.6	40.9	39.9	38.6	38.4	38.5	39.2
28	38.1	37.2	37.1	38.2	39.1	39.5	39.9	40.2	40.9	41.4	41.3	39.9	39.1	38.5	39.3
29	38.4	37.1	36.4	36.6	37.0	37.6	37.8	39.0	39.7	39.7	39.1	39.0	39.0	39.0	39.1
30	38.4	37.1	36.9	37.4	38.3	39.0	39.8	40.5	40.8	40.9	39.8	39.2	38.0	37.8	38.5
31††	38.4	37.8	36.7	37.0	38.0	39.7	40.2	39.8	39.8	39.2	38.7	38.3	38.3	38.0	38.4
Mean	37.3	36.5	36.0	36.4	37.3	38.5	39.3	39.9	39.9	39.6	38.8	38.0	37.6	37.4	37.8
Mean†	37.3	36.6	36.2	36.7	37.7	38.9	39.8	40.4	40.4	40.0	39.1	38.3	37.8	37.8	38.4
Mean††	36.8	36.0	35.6	35.9	36.8	37.9	38.4	39.1	39.0	38.6	37.9	37.3	36.5	36.0	36.4

†Five international quiet days.

††Five international disturbed days.

Δ Loss of record ; day omitted for means.

TABLE 1

Hourly values of Declination (Westerly), 1960

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

Month : July

2° plus tabular quantities

Hours G.M.T.										Maximum		Minimum		Date		
15	16	17	18	19	20	21	22	23	Mean	Time	Mag.	Time	Mag.		Range	
38.1	38.2	38.8	39.1	39.1	38.9	38.5	38.7	38.8	38.4	H. M.	41 0	H. M.	02 30	35.8	5.2	1
39.1	38.9	38.5	38.7	38.8	38.7	38.9	38.7	38.2	38.4	07 13	40 6	03 15	36.4	4.2		2
38.1	38.1	38.1	38.1	38.0	37.7	37.4	38.0	38.0	37.9	08 00	39.6	04 00	36.6	3.0		3
37.5	37.8	37.5	37.5	37.4	37.8	37.6	37.4	37.2	37.7	07 13	40 0	02 20	35.3	4.7		4
37.8	37.8	37.8	37.8	37.8	37.6	37.5	37.9	38.1	37.7	07 15	40.2	03 00	35.7	4.5		5
37.8	37.8	37.8	37.8	37.8	37.8	37.5	37.5	37.4	37.8	06 25	40.4	13 00	36.5	3.9		6
38.0	38.2	38.2	38.0	37.9	37.9	37.9	37.9	37.5	37.9	09 00	39.7	02 00	35.5	4.2		7†
38.2	38.2	38.0	38.0	37.9	37.6	37.6	37.5	37.2	37.9	07 40	40 3	01 35	36.1	4.2		8†
38.4	38.4	38.2	38.0	37.7	37.6	37.6	37.6	37.3	38.1	07 25	42.2	02 20	35.8	6.4		9†
38.3	38.4	38.3	38.1	38.1	37.8	37.3	37.1	37.0	38.0	06 35	40.1	01 30	36.4	3.7		10
38.1	38.3	38.3	38.0	37.7	37.7	37.3	37.1	37.1	38.1	07 00	42.2	02 00	35.9	6.3		11
37.4	37.8	37.4	37.5	37.4	37.2	37.2	37.5	37.1	37.4	07 00	39.3	02 15	35.2	4.1		12
37.5	37.8	37.5	37.7	37.5	37.7	37.7	37.7	37.4	37.6	08 00	39.9	02 23	35.4	4.5		13
37.2	37.2	37.2	36.8	37.0	37.2	37.0	36.4	36.8	37.4	07 35	40.2	02 15	35.7	4.5		14††
34.5	34.5	35.4	35.7	35.8	35.8	35.9	37.2	35.7	36.6	07 00	39.9	12 50	34.0	5.9		15††
35.8	35.7	35.8	35.8	36.4	36.6	36.5	36.2	36.5	35.8	10 00	38.5	01 15	32.6	5.9		16††
36.9	36.9	36.6	36.8	36.8	36.9	36.9	36.9	35.9	36.8	08 00	38.7	02 15	34.3	4.4		17
37.3	37.4	37.3	37.3	37.3	37.2	37.3	37.3	36.9	37.7	08 07	41.5	02 30	34.0	7.5		18
37.3	37.3	37.0	36.7	37.0	37.3	37.0	36.5	36.5	37.0	07 15	39.4	11 23	35.6	3.8		19††
38.1	38.1	38.3	38.0	38.0	37.3	37.3	37.3	37.3	38.0	07 12	41.5	02 00	34.5	7.0		20
38.7	38.6	38.5	38.3	38.2	38.0	37.9	37.6	37.6	38.3	09 30	40.8	01 35	34.9	5.9		21
39.0	38.9	38.7	38.6	38.2	37.9	37.6	37.6	37.6	38.2	07 00	39.9	02 00	35.8	4.1		22
38.7	38.7	38.6	38.5	38.3	38.2	38.0	38.0	37.9	38.5	07 00	41.3	01 45	36.4	4.9		23
39.2	39.0	38.6	38.5	38.2	37.9	37.6	37.6	37.9	38.2	08 05	40.6	02 00	36.4	4.2		24
39.1	38.9	38.6	38.5	38.1	37.8	37.8	38.1	38.1	38.8	07 00	41.4	02 00	36.3	5.1		25†
38.9	39.1	39.1	38.6	38.6	38.5	38.6	38.8	38.2	38.6	08 00	41.3	01 25	36.5	4.8		26
39.2	39.2	38.8	38.6	38.5	38.5	38.5	38.5	38.4	38.6	09 00	41.2	01 35	36.1	5.1		27†
39.9	39.9	39.9	39.6	39.1	38.5	38.4	38.4	38.4	39.4	09 15	41.6	01 35	37.0	4.6		28
39.1	39.0	38.7	38.3	38.3	38.0	38.0	38.1	38.3	38.3	08 02	40.0	01 25	36.3	3.7		29
39.1	38.8	39.0	38.5	39.1	38.8	38.8	38.7	38.5	38.8	09 00	40.9	01 35	36.7	4.2		30
38.4	38.5	38.4	38.8	38.5	38.5	38.4	38.4	38.4	38.5	05 52	40.6	02 08	36.0	4.6		31††
38.1	38.1	38.0	37.9	37.9	37.8	37.7	37.7	37.6	38.0					4.8		Mean
38.6	38.6	38.4	38.2	38.0	37.9	37.9	37.9	37.7								Mean†
36.6	36.6	36.8	36.8	36.9	37.1	37.0	36.9	36.8								Mean††

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

TABLE 2

Hourly values of Declination (Westerly), 1960
(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

Month : August

2' pl s tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	38.4	38.1	37.8	38.4	38.5	39.2	39.8	40.6	40.9	40.8	40.4	38.7	38.7	38.3	38.1
2	38.7	38.4	38.0	38.3	38.5	39.2	39.9	40.9	40.5	40.2	40.4	39.7	39.0	38.3	38.8
3	38.7	38.3	37.7	38.4	39.0	39.8	40.8	41.2	41.2	41.2	39.9	38.8	38.3	38.3	38.7
4†	38.5	38.1	37.4	38.3	38.5	39.8	40.9	41.8	41.3	41.1	39.9	39.4	38.5	38.4	38.8
5†	38.4	37.7	37.0	37.0	38.2	39.3	39.7	39.8	39.8	39.1	38.4	38.0	37.7	38.2	38.6
6	38.4	38.0	37.7	38.3	39.0	40.4	41.2	41.1	40.0	39.7	38.3	38.2	37.7	38.2	38.9
7	38.3	37.5	36.9	37.3	38.3	39.7	40.1	40.5	41.1	40.3	39.7	39.0	38.3	38.4	38.1
8	38.4	37.6	37.0	37.2	38.2	38.4	41.1	42.1	41.5	40.7	39.7	38.7	38.6	38.3	38.4
9	38.3	36.8	35.6	36.3	37.7	39.4	39.4	38.4	38.2	38.6	38.9	37.2	36.5	37.7	38.4
10	38.0	36.8	35.8	36.6	38.2	40.4	42.1	41.9	41.1	39.8	39.7	38.4	38.9	38.6	38.7
11	38.2	37.0	36.8	36.9	37.3	37.5	38.9	40.0	40.3	40.3	39.6	38.2	37.0	37.5	38.4
12	38.4	37.9	37.0	37.5	39.6	41.1	41.3	41.0	40.3	39.6	39.5	38.8	37.9	37.6	38.2
13	38.5	37.6	36.9	37.5	38.2	39.5	40.3	41.1	41.7	41.6	41.0	39.9	39.3	38.2	37.6
14	38.2	37.1	36.9	37.8	39.4	41.0	41.7	41.5	41.0	40.6	39.8	39.2	38.5	38.2	38.0
15	38.7	38.0	36.8	37.1	38.1	39.6	41.0	41.9	41.6	40.2	38.9	38.2	38.1	38.0	38.1
16††	38.2	38.0	37.5	38.0	39.1	40.4	41.4	41.2	40.7	40.4	39.4	38.1	38.0	38.0	37.9
17††	36.6	34.5	34.1	33.5	34.9	36.0	37.3	39.3	38.1	37.9	38.8	37.7	36.5	36.7	38.3
18	36.5	35.1	35.1	36.4	37.9	39.4	40.8	41.3	40.8	39.6	38.0	37.8	36.8	36.6	37.6
19	37.3	36.2	35.4	36.4	37.6	38.6	39.3	40.8	40.1	39.0	37.9	37.8	37.9	38.3	38.6
20	37.8	35.8	35.2	36.8	38.9	40.6	40.5	40.6	39.5	39.1	37.7	37.0	36.7	37.5	37.8
21††	36.4	35.3	35.0	36.4	37.7	38.9	40.5	41.9	41.4	39.5	38.9	38.4	37.8	37.7	37.8
22	37.0	34.9	34.4	36.0	37.6	39.2	40.5	40.9	40.5	39.8	39.1	38.3	37.7	37.6	37.7
23	37.6	36.7	36.3	37.3	38.8	40.5	42.0	43.2	42.2	41.3	39.7	38.4	37.7	38.0	38.5
24†	37.7	36.3	35.3	35.9	38.6	41.5	43.1	42.9	42.1	41.2	39.4	38.2	37.9	38.0	38.4
25†	37.6	36.1	35.1	36.1	39.0	41.4	42.8	43.3	42.4	40.8	39.0	37.6	37.2	37.7	38.3
26†	37.6	36.6	36.1	35.7	37.1	40.0	41.7	43.5	43.8	43.0	41.1	39.0	38.2	38.1	38.5
27	37.4	36.7	36.0	36.0	37.6	40.3	42.5	43.0	42.7	42.4	40.4	38.6	37.6	37.8	38.1
28	36.9	36.1	35.5	35.7	36.6	38.5	40.1	41.3	41.0	40.1	38.8	37.7	37.3	37.0	37.7
29††	37.4	37.0	36.1	37.0	38.7	39.5	38.8	38.4	38.2	37.7	37.5	37.1	36.6	37.0	37.3
30††	37.4	36.0	35.4	35.8	37.2	37.3	37.6	37.3	37.3	37.3	36.6	35.2	35.2	34.6	34.6
31	36.6	35.8	35.3	35.9	37.2	38.6	40.1	40.8	40.1	37.9	36.5	36.0	35.9	36.2	36.5
Mean	37.8	36.8	36.2	36.8	38.1	39.5	40.6	41.0	40.7	40.1	39.1	38.2	37.7	37.7	38.0
Mean†	38.0	37.0	36.2	36.6	38.3	40.4	41.6	42.3	41.9	41.2	39.6	38.4	37.9	38.1	38.5
Mean††	37.2	36.2	35.6	36.1	37.5	38.4	39.1	39.6	39.1	38.6	38.2	37.3	36.8	36.3	37.2

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

TABLE 2

Hourly values of Declination (Westerly), 1960

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

Month: August

2° plus tabular quantities

Hours G.M.T.										Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23	Mean		Time Mag.				
'	'	'	'	'	'	'	'	'	H.	M.	H.	M.			
38.4	38.7	39.0	38.7	38.7	38.5	38.5	38.7	39.0	39.0	08 00	40.9	01 15	37.6	3.3	1
38.5	39.0	39.1	39.0	38.5	38.1	38.5	38.7	38.7	39.0	07 00	40.9	01 56	37.8	3.1	2
39.1	39.4	39.5	39.2	39.2	39.0	39.0	38.7	38.5	39.2	07 15	41.3	02 00	37.7	3.6	3
39.0	39.1	39.2	39.2	39.0	38.7	38.7	38.5	38.5	39.2	07 00	41.9	02 00	37.4	4.5	4†
39.1	39.3	39.1	39.0	38.9	38.9	38.9	38.9	39.0	38.7	05 50	40.0	02 00	36.9	3.1	5†
39.1	39.6	39.1	39.0	38.9	38.7	38.7	38.3	38.3	39.0	06 00	41.2	01 15	37.6	3.6	6
39.6	39.6	39.6	39.4	39.1	38.7	38.7	38.7	38.7	39.0	07 40	41.2	02 00	36.9	4.3	7
38.9	38.4	38.3	38.4	38.3	38.3	38.4	38.7	38.4	38.8	07 10	42.2	01 45	36.9	5.3	8
38.4	38.4	38.3	38.4	38.3	38.4	38.3	38.2	38.2	38.0	05 30	39.6	02 00	35.5	4.1	9
39.3	39.1	39.0	38.6	38.4	38.4	38.6	38.4	38.3	38.9	05 54	42.2	02 00	35.6	6.6	10
38.3	38.9	39.1	39.3	39.3	39.0	38.7	38.6	38.4	38.4	07 25	40.5	02 52	36.3	4.2	11
38.5	38.6	38.9	38.6	38.5	38.8	38.6	38.5	38.3	38.9	06 36	41.7	02 00	36.9	4.8	12
38.1	38.2	38.3	38.5	38.5	38.3	38.2	38.3	38.3	38.9	08 00	41.7	02 00	36.9	4.8	13
38.2	38.9	38.9	39.2	38.9	38.7	39.2	38.5	38.5	39.1	05 25	42.9	01 45	36.8	6.1	14
38.2	38.4	38.5	38.7	38.5	38.2	38.2	38.4	38.2	38.7	06 45	42.0	02 00	36.7	5.3	15
36.9	35.9	35.3	36.6	37.1	37.2	38.0	37.3	37.3	38.3	06 25	41.5	16 48	34.6	6.9	16††
38.3	37.9	38.0	38.1	37.7	37.0	36.7	37.6	37.6	37.0	07 10	39.4	03 15	32.5	6.9	17††
38.0	38.3	38.0	38.3	38.5	38.2	37.9	37.9	37.8	38.2	07 22	41.7	01 15	34.6	7.1	18
39.2	39.3	39.3	38.9	38.2	37.9	37.3	37.5	37.9	38.2	06 55	40.8	01 45	35.2	5.6	19
38.1	38.1	37.7	37.7	37.8	37.7	37.4	37.2	36.8	37.9	06 45	41.0	01 35	35.1	5.9	20
37.9	37.9	37.9	37.8	38.1	37.7	37.5	37.4	37.2	38.0	06 40	42.0	01 55	34.9	7.1	21††
37.8	38.1	38.0	37.7	37.7	37.7	37.7	37.7	37.7	38.0	07 00	41.2	01 25	33.9	7.3	22
38.7	38.3	38.0	38.0	37.8	37.8	37.8	38.0	38.1	38.8	07 05	43.3	02 00	36.2	7.1	23
38.4	38.3	38.0	37.9	37.9	37.9	37.9	37.7	37.6	38.7	06 30	43.2	01 52	35.0	8.2	24†
38.6	38.6	38.3	38.0	37.9	37.7	37.7	37.7	37.9	38.6	06 42	43.5	02 00	34.9	8.6	25†
38.5	38.3	38.3	38.3	38.1	37.9	37.6	37.6	37.5	38.8	08 00	43.9	02 32	35.5	8.4	26†
38.3	38.3	37.6	37.1	37.2	37.2	37.6	37.5	37.5	38.6	06 50	43.1	01 50	35.5	7.6	27
37.0	37.3	37.4	37.5	37.5	37.5	37.5	37.4	37.4	37.8	06 28	41.7	01 40	35.4	6.3	28
37.4	37.5	37.5	37.1	37.4	37.7	37.3	37.5	37.7	37.6	04 42	40.2	02 00	36.1	4.1	29††
35.3	36.0	36.9	36.9	36.9	36.9	37.0	36.9	36.9	36.4	07 20	38.0	11 15	34.5	3.5	30††
37.0	37.2	37.2	37.2	37.0	36.9	36.9	36.9	36.9	37.2	06 45	41.1	01 35	34.9	6.2	31
38.2	38.4	38.3	38.3	38.2	38.1	38.1	38.1	38.0	38.4					5.6	Mean
38.7	38.7	38.6	38.5	38.4	38.2	38.1	38.1	38.1							Mean†
37.2	37.0	37.1	37.4	37.5	37.3	37.3	37.3	37.3							Mean††

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

TABLE 3

Hourly Values of Declination (westerly), 1960
(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

Month : September

2° Plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1†	36.7	36.0	35.9	36.1	37.3	39.2	40.0	39.6	38.7	38.2	37.5	36.9	36.5	37.1	37.2
2	36.4	35.1	34.4	35.2	37.1	38.6	41.0	41.8	40.4	38.6	37.2	35.8	35.7	35.8	35.9
3††	36.4	34.3	32.2	32.9	36.7	38.6	39.5	38.6	39.1	38.5	37.2	36.3	36.3	36.3	36.5
4††	36.4	35.3	35.0	36.1	37.1	38.4	37.8	37.8	35.0	33.7	32.9	32.1	32.8	32.8	34.4
5††	35.7	32.9	32.1	33.6	35.6	37.0	38.3	37.7	36.0	32.8	31.1	30.0	30.0	30.6	33.2
6	35.6	34.1	34.3	36.1	37.5	38.4	38.9	38.3	38.3	37.9	36.5	35.9	35.2	35.5	35.6
7††	35.1	33.7	33.5	35.2	37.2	39.6	41.2	42.1	41.5	40.4	38.4	36.9	35.8	35.2	35.6
8	35.6	34.2	33.8	35.3	37.4	39.6	41.7	42.5	41.0	38.9	38.1	36.4	35.4	35.4	35.4
9	36.7	35.3	34.3	35.1	36.4	38.3	40.3	41.6	41.0	39.7	38.3	37.4	36.8	36.1	35.8
10	36.0	35.0	33.9	34.0	35.7	37.4	39.8	41.0	41.0	39.6	37.5	36.6	36.6	36.4	36.4
11	36.0	34.9	34.5	35.2	36.7	38.8	40.7	40.7	40.4	39.4	37.9	37.2	37.2	37.2	36.9
12	36.5	35.1	34.1	34.6	35.3	37.4	38.3	39.3	38.4	37.2	36.6	36.6	36.6	36.5	36.0
13	36.3	35.3	34.9	35.4	36.4	37.6	39.2	39.7	39.4	38.9	37.2	36.1	36.2	35.9	35.5
14	36.4	35.1	34.3	35.0	35.7	37.2	39.2	39.7	39.7	39.2	37.9	37.2	37.1	36.4	36.1
15†	36.5	35.1	35.3	34.9	36.4	38.4	40.2	41.0	41.2	40.2	38.6	37.5	37.4	37.0	36.7
16†	36.5	35.7	35.0	35.4	37.0	39.1	41.0	41.4	40.6	39.5	38.4	37.2	37.1	37.1	37.0
17	36.5	35.4	34.6	34.3	34.9	37.0	40.1	40.8	39.2	38.4	37.6	36.6	36.6	37.0	37.3
18	36.0	34.5	33.9	33.9	34.5	35.5	37.7	39.1	39.4	39.4	37.7	36.9	36.7	36.6	36.4
19†	35.5	34.9	34.8	35.6	37.0	37.8	39.1	40.4	39.7	38.8	37.7	37.0	37.1	37.1	36.9
20	36.6	36.2	35.9	36.8	37.7	39.1	40.3	40.4	39.8	38.6	37.5	36.8	36.9	36.9	36.9
21	36.2	36.3	34.8	36.5	37.9	39.6	40.3	41.0	40.5	39.0	37.7	37.3	36.6	36.5	36.5
22	35.5	34.8	34.0	35.2	36.3	37.7	38.7	39.2	39.0	37.8	37.0	36.4	36.6	36.7	36.6
23	36.0	35.5	34.9	35.4	36.5	38.9	40.2	40.2	39.2	37.9	37.4	36.5	36.8	37.2	37.1
24	35.8	35.3	34.7	34.3	35.8	37.4	38.6	38.6	38.5	37.0	35.3	34.9	35.7	36.4	36.7
25†	35.8	35.1	34.7	35.2	36.5	37.9	40.1	40.4	39.7	39.0	37.8	36.6	36.6	36.6	36.6
26	36.5	35.8	34.3	35.4	36.5	38.7	41.1	40.9	39.8	38.3	37.3	36.6	36.6	36.7	36.9
27	37.2	36.4	34.6	34.8	35.6	37.4	38.0	38.1	38.4	38.1	37.4	36.6	36.3	36.1	36.6
28	36.7	36.0	35.3	35.7	36.6	37.4	38.0	39.1	38.5	37.8	36.1	35.6	36.1	36.6	36.7
29	36.8	36.3	35.3	35.4	36.0	36.7	37.8	38.5	37.9	36.8	35.8	35.8	36.4	36.5	36.4
30††	36.8	35.8	35.1	34.7	35.5	36.5	37.6	38.0	37.9	36.9	36.5	35.9	36.2	35.6	35.5
Mean	36.2	35.2	34.5	35.1	36.4	38.0	39.5	39.9	39.3	38.2	37.0	36.2	36.1	36.1	36.2
Mean†	36.2	35.4	35.1	35.4	36.8	38.5	40.1	40.6	40.0	39.1	38.0	37.0	36.9	37.0	36.9
Mean††	36.1	35.4	33.6	34.5	36.4	38.0	38.9	38.8	37.9	36.5	35.2	34.2	34.2	34.1	35.0

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

TABLE 3

Hourly Values of Declination (westerly), 1960

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

Month : September

2° Plus tabular quantities

Hours G.M.T.										Maximum		Minimum		Range	Date		
15	16	17	18	19	20	21	22	23	Mean		Range						
										Time	Mag.	Time	Mag.				
										H	M	H	M				
37.2	37.2	37.2	37.1	37.1	36.8	36.8	36.9	36.8	37.3	06	00	40.0	02	00	35.9	4.1	1†
36.2	36.5	37.2	37.2	37.1	37.1	36.8	36.6	36.8	37.1	06	44	42.0	02	00	34.4	7.6	2
36.7	37.0	37.0	36.7	37.1	37.0	36.7	36.7	36.7	36.7	06	31	40.3	01	52	31.6	8.7	3††
35.0	35.7	36.4	37.1	36.8	35.7	35.8	36.3	35.7	35.5	05	22	38.8	10	50	31.8	7.0	4††
32.9	34.2	35.2	35.6	35.9	35.7	35.6	35.5	36.0	34.3	06	12	39.1	12	05	29.9	9.2	5††
35.8	36.1	36.1	35.9	36.1	36.1	35.8	35.8	35.6	36.3	06	10	39.1	01	18	33.8	5.3	6
35.8	36.8	36.6	36.9	36.9	36.6	36.3	36.1	35.9	37.1	06	58	42.2	01	30	33.1	9.1	7††
36.1	36.0	36.4	36.5	36.7	36.7	36.5	36.5	36.7	37.0	06	52	42.7	01	41	33.7	9.0	8
36.4	36.5	36.7	36.5	36.7	36.4	36.8	36.7	36.4	37.2	06	52	41.7	01	52	34.1	7.6	9
36.3	35.9	35.7	36.0	35.9	35.9	36.1	36.3	36.3	36.7	07	55	41.3	02	10	33.5	7.8	10
36.7	36.6	36.6	36.6	36.2	36.2	36.6	36.5	36.5	37.2	06	25	40.9	01	20	34.3	6.6	11
35.9	36.2	36.3	36.5	36.6	36.6	36.6	36.6	36.6	36.5	06	40	39.4	02	00	34.1	5.3	12
35.8	36.1	36.1	36.1	36.1	36.4	36.4	36.5	36.5	36.7	07	00	39.7	02	00	34.9	4.8	13
36.4	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.9	08	15	40.0	02	00	34.3	5.7	14
36.7	36.7	36.5	36.5	36.4	36.4	36.5	36.7	36.8	37.3	08	00	41.2	01	50	33.9	7.3	15†
37.0	36.5	36.7	36.5	36.4	36.4	36.4	36.4	36.5	37.4	07	00	41.4	01	50	34.9	6.5	16†
37.3	37.4	37.1	37.0	37.0	36.7	37.0	37.1	36.6	37.1	06	35	41.1	02	15	34.3	6.8	17
36.3	36.4	36.3	36.3	36.2	36.0	36.0	36.0	35.9	36.4	07	50	39.7	02	36	33.5	6.2	18
37.0	37.0	36.9	36.7	36.4	36.3	36.3	36.4	36.6	37.0	07	15	40.8	01	55	34.6	6.2	19†
36.9	36.6	36.6	36.6	36.6	36.5	36.5	36.5	36.5	37.3	07	00	40.4	02	00	35.7	4.7	20
36.2	36.2	36.2	36.2	36.2	36.2	36.1	36.1	35.9	37.2	07	00	41.1	01	35	34.7	6.4	21
37.0	36.9	36.7	36.4	36.3	36.2	36.2	35.9	35.9	36.6	07	00	39.2	01	45	33.8	5.4	22
37.1	37.1	37.1	36.7	36.4	36.4	36.4	36.4	36.3	37.1	06	21	40.5	02	00	34.9	5.6	23
37.1	36.5	36.4	36.3	36.3	36.0	35.8	35.8	35.8	36.3	05	55	39.1	02	45	33.7	5.4	24
36.6	36.9	37.2	36.9	36.6	36.5	36.5	36.5	36.6	37.0	06	20	40.7	02	02	34.4	6.3	25†
37.0	37.0	37.0	37.0	37.0	37.0	37.2	37.2	37.2	37.3	06	00	41.6	02	05	33.7	7.9	26
36.7	36.7	36.7	36.7	36.6	36.6	36.7	36.7	36.7	36.7	07	20	38.5	02	05	34.3	4.2	27
36.6	36.7	36.7	36.8	36.7	36.7	36.7	37.1	37.0	36.8	07	30	39.4	01	55	35.2	4.2	28
36.5	36.7	36.8	36.5	36.5	36.7	36.9	37.2	36.9	36.6	06	50	38.8	02	00	35.3	3.5	29
35.5	35.9	36.5	36.5	36.3	37.0	37.0	36.9	36.9	36.4	06	25	38.3	03	02	34.4	3.9	30††
36.4	36.5	36.6	36.6	36.5	36.4	36.4	36.5	36.4	36.8							6.3	Mean
36.9	36.9	36.9	36.7	36.6	36.5	36.5	36.6	36.7							Mean†		
35.2	35.9	36.39	36.6	36.6	36.4	36.3	36.3	36.2							Mean††		

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

TABLE 4

Hourly values of Declination (Westerly), 1960

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

Month · October

2' plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1††	36.9	35.6	35.5	36.7	36.9	37.8	37.7	38.4	38.0	37.0	37.0	37.0	36.7	35.7	35.0
2	37.0	36.7	36.9	36.8	37.1	37.5	37.7	37.8	37.1	36.1	35.1	34.9	34.6	34.7	35.6
3	36.8	36.5	36.7	37.5	38.6	39.9	39.9	39.5	38.9	38.2	37.0	36.5	36.5	36.8	37.0
4	37.1	36.4	35.6	35.9	36.8	38.3	39.6	40.0	39.2	37.6	36.6	36.2	37.1	37.1	36.8
5	36.2	35.1	35.1	36.2	37.7	38.7	39.3	39.1	38.6	37.3	36.7	36.6	37.2	37.3	36.9
6††	37.0	36.3	34.8	35.2	37.5	37.3	37.3	37.3	37.3	37.7	36.1	33.8	31.9	33.3	32.8
7††	34.5	33.2	33.3	34.3	34.6	36.0	36.1	36.1	35.9	35.4	33.9	32.5	33.2	33.3	32.9
8	37.3	36.4	37.3	38.1	39.0	40.2	40.3	40.6	40.2	38.9	36.8	35.7	36.1	36.2	36.2
9	37.5	36.2	36.2	36.8	37.5	38.2	39.3	39.9	39.5	39.3	38.1	37.3	37.8	37.8	37.8
10	37.9	37.5	37.5	37.5	37.4	38.3	39.2	39.5	39.2	38.2	36.9	36.4	36.8	37.4	37.2
11	37.5	36.8	36.0	36.1	37.2	38.8	41.1	40.2	39.2	38.8	37.4	37.2	37.4	37.5	37.4
12†	37.8	37.6	37.4	36.9	37.2	38.2	40.0	40.3	40.2	38.9	38.1	37.6	37.6	37.6	37.5
13†	38.3	38.3	38.3	38.3	38.2	38.5	40.2	40.4	39.2	40.4	38.9	38.1	37.6	37.6	37.8
14†	38.3	37.8	37.4	37.5	37.5	37.9	38.8	38.9	38.6	38.3	38.1	37.5	37.6	37.9	37.5
15	37.6	37.5	37.5	37.6	38.3	39.8	41.8	41.7	39.7	40.1	39.0	38.6	38.4	37.6	37.6
16	37.2	37.6	38.0	37.9	38.6	38.2	38.9	39.1	39.0	38.3	37.6	37.3	37.3	37.3	37.3
17	37.6	38.0	37.6	37.0	37.5	38.9	40.3	40.3	39.7	38.9	37.7	37.3	37.6	37.7	37.6
18	37.7	37.6	37.0	36.5	36.2	37.5	37.6	37.5	36.9	36.6	36.1	35.6	36.1	36.8	36.8
19	37.3	37.3	37.6	38.0	38.3	38.9	39.4	39.1	39.0	38.6	37.9	37.6	37.7	37.6	37.6
20	37.7	37.5	37.2	37.3	38.3	39.4	40.3	39.8	38.9	38.6	38.2	38.2	38.4	37.7	37.3
21	37.5	37.5	37.6	37.9	38.6	39.7	40.7	40.0	38.2	37.5	37.3	37.2	37.5	37.6	37.6
22†	37.6	37.6	37.2	37.1	37.8	39.5	40.8	40.6	40.1	39.1	38.3	38.0	38.1	38.0	37.7
23†	38.5	38.0	37.7	38.1	39.2	40.7	41.9	41.4	40.5	39.2	38.5	38.1	38.4	38.2	37.9
24	38.2	38.2	38.6	39.3	40.1	41.4	42.0	41.1	40.6	39.3	38.3	37.8	37.6	37.9	37.9
25††	37.8	37.6	37.6	38.0	38.0	39.4	40.6	39.2	37.8	36.4	35.9	36.1	36.5	36.4	36.4
26††	36.9	36.9	37.9	37.4	37.6	38.7	38.4	37.9	37.3	36.6	35.9	35.2	34.1	34.9	35.1
27	37.9	37.4	37.4	37.1	37.1	38.1	38.8	38.8	38.7	39.1	37.8	36.1	35.4	36.4	36.6
28	38.0	38.0	37.7	37.6	37.9	38.1	38.7	37.9	36.6	36.6	36.2	35.2	35.2	35.5	35.6
29	38.0	38.0	37.9	38.6	39.3	39.4	39.5	39.4	37.1	37.7	36.6	35.2	35.3	35.9	36.3
30	38.1	38.3	38.1	37.9	37.9	38.7	38.2	37.8	36.8	36.5	36.1	35.4	35.7	36.5	36.4
31	37.9	37.9	37.9	37.6	37.8	38.9	38.2	36.6	36.4	36.5	36.2	36.4	37.5	37.5	37.2
Mean	37.5	37.1	37.0	37.2	37.8	38.7	39.4	39.2	38.5	38.0	37.1	36.5	36.6	36.8	36.7
Mean†	38.1	37.9	37.6	37.6	38.0	38.9	40.3	40.3	39.7	39.2	38.4	37.9	37.9	37.9	37.7
Mean††	36.6	35.9	35.8	36.3	36.9	37.8	38.0	37.8	37.3	36.6	35.8	34.9	34.5	34.7	34.4

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

TABLE 4

Hourly values of Declination (Westerly), 1960

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

Month : October

2° plus tabular quantities

Hours G.M.T										Maximum		Minimum		Date			
15	16	17	18	19	20	21	22	23	Mean	Range	Time	Mag.	Time		Mag.		
										H	M.	H	M				
36.0	35.7	36.0	36.7	36.9	36.9	37.4	37.0	36.9	36.7	06	42	39.1	01	25	35.4	3.7	1††
35.6	35.3	35.7	36.1	36.3	36.3	36.3	36.7	37.0	36.3	06	30	37.9	11	52	34.3	3.6	2
37.0	36.8	36.8	37.0	37.0	37.0	37.1	37.1	37.1	37.5	05	25	40.2	01	25	36.3	3.9	3
36.2	36.6	35.7	36.4	36.5	35.5	35.7	35.8	36.4	36.9	07	00	40.0	02	00	35.5	4.5	4
36.9	37.2	37.3	37.2	37.2	37.3	37.4	37.4	37.3	37.2	06	25	39.4	01	41	34.9	4.5	5
32.9	31.8	33.3	36.0	34.9	35.9	34.6	34.6	35.7	35.2	06	45	38.7	15	50	31.2	7.5	6††
34.5	34.6	33.5	36.0	35.6	35.9	36.4	37.1	36.8	34.8	06	15	37.4	00	38	31.8	5.6	7††
36.5	36.5	36.4	36.5	36.8	37.1	37.5	37.5	37.5	37.6	07	15	40.9	11	00	35.7	5.2	8
37.9	37.9	37.9	38.1	38.1	38.1	38.2	38.3	38.3	38.0	06	15	40.0	01	15	36.1	3.9	9
37.4	37.4	37.5	37.4	37.4	37.4	37.4	37.6	37.8	37.7	07	00	39.6	11	00	36.4	3.2	10
37.4	37.4	37.5	37.5	37.4	37.4	37.5	37.5	37.5	37.7	05	43	41.6	02	18	35.7	5.9	11
37.6	37.6	37.6	37.8	37.8	37.6	37.5	37.9	38.3	38.0	07	00	40.3	03	10	36.8	3.5	12†
37.9	37.9	37.8	37.8	37.5	37.5	37.5	37.6	38.1	38.3	07	45	40.7	04	15	37.5	3.2	13†
37.5	37.6	37.6	37.5	37.5	37.5	37.5	37.5	37.6	37.8	07	00	38.9	02	00	36.9	2.0	14†
37.6	37.6	37.2	36.3	36.2	36.2	36.3	36.5	36.6	38.1	06	00	41.8	18	30	36.1	5.7	15
37.5	37.6	37.6	37.6	37.6	37.6	37.5	37.5	37.6	37.8	07	15	39.7	13	15	36.9	2.8	16
37.6	37.6	37.6	37.6	37.5	37.6	37.6	37.6	37.9	38.1	06	05	40.4	03	15	36.6	3.8	17
36.2	36.6	36.6	36.2	36.5	36.8	36.9	36.9	37.2	36.8	00	01	37.7	10	42	35.4	2.3	18
37.6	37.5	37.3	37.3	37.3	37.5	37.6	38.0	37.9	37.9	06	00	39.4	00	48	37.2	2.2	19
37.2	36.9	37.2	37.3	37.3	37.5	37.6	37.6	37.6	38.0	06	00	40.4	15	42	36.8	3.6	20
37.6	37.7	37.7	37.5	37.3	37.5	37.6	37.6	37.7	37.9	06	00	40.7	10	50	37.0	3.7	21
37.7	38.0	38.1	38.0	37.8	37.8	37.8	38.1	38.4	38.3	06	15	41.1	03	15	36.9	4.2	22†
37.9	38.1	38.2	38.2	38.1	38.1	38.2	38.4	38.4	38.7	06	00	41.9	02	00	37.6	4.3	23†
37.9	37.3	36.1	36.9	36.8	37.2	37.8	37.8	37.9	38.5	05	45	42.1	16	55	35.7	6.4	24
36.1	35.1	34.0	34.1	34.7	35.4	36.4	36.5	36.6	36.8	06	12	40.7	16	55	33.4	7.3	25††
35.2	36.0	36.3	36.5	36.7	37.6	37.4	37.7	38.0	36.8	05	05	39.1	12	22	33.9	5.2	26††
36.7	36.7	36.3	36.8	36.7	36.8	37.7	37.5	38.1	37.3	09	07	39.2	11	35	35.3	3.9	27
35.6	35.8	36.5	36.9	36.9	37.4	37.9	38.0	38.0	37.0	05	30	39.0	12	13	34.8	4.2	28
36.8	36.6	36.6	36.7	36.6	36.6	36.6	38.0	38.0	37.5	06	10	40.0	11	00	35.1	4.9	29
36.4	36.5	37.2	37.1	36.9	37.5	37.2	37.5	37.6	37.2	05	03	38.9	11	50	35.2	3.7	30
37.2	37.5	37.6	37.8	37.3	37.5	37.5	37.8	37.8	37.4	05	13	39.3	10	35	35.5	3.8	31
36.8	36.8	36.7	37.0	37.0	37.1	37.2	37.4	37.5	37.4							4.3	Mean
37.7	37.8	37.9	37.9	37.7	37.7	37.7	37.9	38.2							Mean†		
34.9	3.46	34.6	35.9	35.8	36.3	36.4	36.6	36.8							Mean††		

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

TABLE 5
 Hourly values of Declination (Westerly), 1960
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2° plus tabular quantities

Month : November

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	38.0	38.0	37.9	37.6	37.5	37.9	38.6	37.9	37.9	37.5	36.9	36.9	37.2	37.5	37.1
2	37.9	38.0	38.0	38.3	38.5	39.0	38.9	37.2	36.5	36.5	36.8	37.6	37.9	37.8	37.5
3	37.6	37.6	37.9	37.4	37.8	38.4	38.4	37.8	37.0	37.1	37.0	36.8	37.7	37.4	37.1
4††	37.8	37.8	37.8	37.2	36.8	37.1	36.7	36.1	35.1	35.1	35.8	36.0	36.0	36.0	35.1
5	37.7	37.8	37.8	37.8	37.8	38.4	38.2	38.1	37.8	37.4	37.0	37.0	37.5	36.8	36.4
6	37.8	37.8	37.8	37.8	37.8	37.8	38.8	38.6	38.2	38.2	37.8	37.5	37.4	37.2	37.2
7†	38.1	37.9	37.8	37.0	36.5	38.1	38.4	37.9	37.7	37.5	37.4	37.2	37.4	37.0	36.8
8†	37.9	38.2	38.5	38.6	39.2	39.8	39.8	39.2	38.2	37.9	37.8	37.8	37.8	37.8	37.7
9†	38.1	38.4	38.5	37.6	37.7	38.1	38.0	37.6	37.0	37.0	36.9	37.0	37.6	37.6	37.3
10	38.0	38.3	38.8	39.1	38.8	38.8	38.7	38.8	38.3	37.7	37.7	38.3	38.5	38.7	37.8
11	39.1	39.9	39.9	39.5	39.1	38.7	38.1	37.4	36.3	36.3	36.2	34.9	35.5	36.2	36.3
12	37.8	38.3	38.3	38.1	37.8	38.5	38.4	38.4	38.4	38.3	37.6	37.1	37.4	37.4	37.7
13††	39.1	38.4	38.1	39.0	38.7	33.9	33.5	28.3	24.4	26.5	26.6	26.2	30.0	30.0	30.8
14††	35.9	36.3	36.3	35.2	34.7	35.4	35.8	35.8	35.5	35.5	35.5	35.5	35.5	35.5	35.6
15††	35.8	35.8	36.1	35.9	36.3	37.5	37.3	37.2	36.2	35.9	36.2	36.2	36.1	36.1	36.3
16††	36.1	36.1	34.0	33.7	35.1	34.9	36.3	35.8	35.3	34.3	35.3	36.0	36.0	36.1	36.2
17	38.1	38.4	37.7	37.1	37.0	37.3	37.6	36.5	35.6	34.8	34.8	35.5	35.9	36.2	36.2
18†	36.9	37.0	37.6	37.3	37.6	37.9	37.6	37.6	36.9	36.3	36.2	36.5	37.5	37.2	36.9
19†	37.3	37.6	37.9	38.2	37.7	37.6	37.3	36.9	36.3	36.2	36.3	36.5	36.9	36.8	36.8
20	38.3	38.3	38.2	38.3	38.9	39.0	39.0	38.2	37.0	36.2	35.9	36.2	36.6	36.9	36.1
21	38.4	38.7	38.9	38.7	38.4	38.5	38.4	36.6	35.2	34.9	35.0	36.9	36.6	35.6	36.0
22	39.1	39.1	39.7	39.2	38.5	37.7	37.6	37.6	36.6	36.4	36.4	37.1	36.9	36.6	36.6
23	38.1	38.4	38.7	39.1	39.1	38.8	39.0	38.5	38.4	37.8	37.8	37.0	37.0	37.0	36.4
24	38.4	38.5	37.8	37.7	37.7	38.4	38.5	37.8	37.7	37.1	36.3	36.2	36.6	37.3	37.0
25	39.0	38.4	38.5	38.4	38.4	38.6	38.5	38.8	38.2	36.8	36.1	34.7	36.4	36.4	35.7
26	37.8	37.7	37.9	38.4	38.4	38.6	38.6	38.4	37.2	36.8	36.7	37.1	37.0	37.1	37.1
27	38.4	38.4	38.5	38.6	38.6	39.1	38.9	38.5	37.7	36.8	36.7	37.0	37.7	37.5	36.7
28	38.8	39.1	39.2	39.1	39.0	38.4	38.3	37.7	37.0	36.7	36.6	36.4	36.9	36.9	37.0
29	38.4	38.7	39.1	39.2	39.2	39.2	39.7	39.8	39.0	37.8	37.0	37.0	37.1	37.6	37.6
30	38.8	39.0	39.0	39.0	39.1	39.1	39.1	38.7	38.0	37.7	37.7	37.7	37.7	37.7	37.7
Mean	38.0	38.1	38.1	37.9	37.9	38.0	38.1	37.5	36.7	36.4	36.3	36.3	36.7	36.7	36.6
Mean†	37.7	37.8	38.1	37.7	37.7	38.3	38.2	37.8	37.2	37.0	36.9	37.0	37.4	37.3	37.1
Mean††	36.9	36.9	36.5	36.2	36.3	35.8	35.9	34.6	33.3	33.5	33.9	34.0	34.7	34.7	34.8

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

TABLE 5

Hourly values of Declination (Westerly), 1960

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

Month : November

2° plus tabular quannues

Hours G. M. T.										Maximum		Minimum		Date			
15	16	17	18	19	20	21	22	23	Mean		Range						
										Time	Mag	Time	Mag				
										H	M.	H	M				
37.1	37.5	37.5	37.5	37.5	37.5	37.8	37.9	38.0	37.6	06	15	38.7	10	00	36.9	1.8	1
37.3	37.5	37.5	37.1	37.2	37.5	37.5	37.5	37.5	37.6	05	25	39.3	08	00	36.5	2.8	2
37.4	37.1	37.4	37.0	37.2	37.4	37.1	37.0	37.1	37.4	05	50	38.6	11	00	36.8	1.8	3
36.3	36.4	36.3	36.3	36.4	36.4	36.5	36.8	37.4	36.5	01	20	37.9	08	35	35.0	2.9	4††
36.5	36.5	36.7	36.7	36.5	37.0	37.4	37.5	37.8	37.3	05	00	38.4	14	00	36.4	2.0	5
37.4	37.5	37.7	37.5	37.4	37.4	37.8	37.8	37.9	37.8	06	16	39.2	13	00	37.2	2.0	6
37.0	37.5	37.7	37.5	37.7	37.7	37.7	37.8	37.8	37.5	05	45	38.8	03	35	36.4	2.4	7†
37.5	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	38.3	05	05	39.9	15	00	37.5	2.4	8†
37.4	37.7	37.7	37.6	37.6	37.6	37.7	37.7	37.8	37.6	01	42	38.5	10	00	36.9	1.6	9†
37.7	37.7	37.7	37.6	37.6	37.7	37.8	38.4	39.0	38.2	03	00	39.1	18	00	37.6	1.5	10
36.9	36.9	37.0	37.0	37.1	37.3	37.3	37.7	37.7	37.4	02	14	40.4	11	05	34.5	5.9	11
38.0	37.7	37.7	36.0	34.6	36.4	38.7	37.7	38.3	37.7	21	55	41.9	18	55	38.5	8.4	12
32.5	33.5	33.8	34.8	35.7	34.8	35.6	35.7	36.0	33.2	03	55	40.5	08	01	22.6	17.9	13††
36.1	36.2	36.2	36.3	35.8	35.8	35.4	35.6	35.6	35.7	01	55	37.0	03	30	34.5	2.5	14††
37.3	37.0	36.2	35.8	35.8	36.1	34.9	35.5	35.1	36.2	06	00	37.6	22	40	34.1	3.5	15††
37.0	36.9	36.7	36.6	36.9	36.9	37.0	37.0	37.0	36.0	15	00	37.0	04	40	33.4	3.6	16††
36.2	36.8	37.0	36.3	36.2	36.2	36.2	36.2	36.5	36.5	00	50	38.6	09	00	34.8	3.8	17
37.0	37.2	37.2	37.0	36.9	36.9	36.9	36.9	37.2	37.1	05	00	37.9	10	00	36.2	1.7	18†
36.9	37.3	37.5	37.3	37.3	37.6	37.6	38.0	38.2	37.3	03	00	38.3	03	45	36.1	2.2	19†
36.9	37.2	37.3	37.5	37.6	37.6	37.6	37.7	38.3	37.5	05	30	39.3	14	02	35.8	3.5	20
36.2	35.9	35.7	34.9	36.0	36.9	37.1	38.3	39.2	37.0	23	05	39.4	09	02	34.3	5.1	21
36.7	36.9	37.0	36.9	36.9	37.0	37.4	37.7	38.1	37.5	01	40	40.1	08	15	36.2	3.9	22
38.1	37.1	37.1	37.4	37.7	37.7	37.7	37.8	38.4	37.9	03	00	39.1	14	00	36.3	2.8	23
37.4	37.7	37.7	38.3	38.4	39.0	38.7	38.8	39.1	37.8	23	05	39.2	10	55	36.0	3.2	24
36.1	36.4	37.5	37.1	37.0	37.1	37.2	37.7	37.8	37.4	06	20	39.2	10	55	34.2	5.0	25
37.2	37.5	37.7	37.7	37.8	37.8	37.5	37.9	38.2	37.7	05	35	38.8	12	20	36.4	2.4	26
37.0	37.2	37.1	37.0	37.2	37.7	37.8	38.4	38.4	37.8	05	25	39.2	14	15	36.4	2.8	27
37.0	37.6	37.6	37.6	37.7	37.4	37.7	37.7	38.0	37.7	02	15	39.6	10	30	36.3	3.3	28
37.6	37.7	37.7	37.8	38.0	38.3	38.3	38.3	38.5	38.3	07	00	39.8	10	00	37.0	2.8	29
37.7	37.7	37.8	37.7	37.8	38.3	38.3	37.7	38.3	38.2	04	00	39.1	21	43	37.6	1.5	30
36.9	37.1	37.1	37.0	37.0	37.2	37.3	37.5	37.7	37.3						3.6	Mean	
37.2	37.5	37.6	37.4	37.5	37.5	37.5	37.6	37.8						Mean†			
35.8	36.0	35.8	36.0	36.1	36.0	35.9	36.1	36.2						Mean††			

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

TABLE 6

Hourly values of Declination (Westerly), 1960
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2° plus tabular quantities

Month : December

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1††	39.5	40.5	40.1	40.4	38.8	36.3	34.9	36.3	35.7	36.0	35.2	35.5	35.7	36.3	36.3
2††	37.1	38.0	39.1	38.8	38.4	37.6	37.3	37.7	37.4	37.4	37.1	37.3	37.3	36.9	37.0
3	38.0	38.5	39.0	38.9	38.3	38.3	38.6	38.9	37.9	37.6	37.2	36.9	37.2	37.2	36.9
4†	38.2	38.3	39.0	38.7	38.7	39.0	39.0	39.0	37.6	36.2	36.2	37.2	37.6	37.3	37.0
5	38.3	38.3	39.1	39.1	39.4	39.4	38.9	38.4	38.2	37.6	37.2	36.5	36.3	36.8	36.8
6	38.4	38.4	38.9	39.3	39.0	39.0	38.9	37.7	36.9	35.9	35.4	35.5	36.2	36.8	36.3
7	37.6	38.3	39.0	39.0	39.3	39.3	39.0	39.0	38.0	37.3	37.0	36.8	36.9	36.3	36.5
8	38.2	37.6	38.0	39.1	40.0	40.3	40.4	40.4	39.0	37.7	36.3	35.8	36.8	37.3	37.3
9	38.6	38.7	38.6	37.5	36.8	37.4	37.5	38.8	38.3	37.6	37.4	36.9	36.8	37.1	36.8
10	38.5	38.2	38.1	37.1	36.8	38.1	39.2	39.9	39.6	38.8	37.5	36.8	36.8	37.5	37.5
11†	38.2	38.3	38.8	38.1	37.5	37.8	38.2	38.5	38.3	38.3	37.5	36.8	36.8	37.2	36.8
12	38.5	38.6	38.9	39.2	38.9	38.9	38.9	38.3	38.1	38.3	37.5	37.1	37.2	37.4	37.1
13	38.3	38.2	38.3	38.9	38.9	38.9	38.1	36.9	36.7	37.5	37.4	37.2	37.1	36.8	36.8
14†	38.6	38.9	38.9	39.2	38.6	39.0	39.0	38.9	38.3	39.0	38.7	38.3	38.6	38.3	37.9
15††	39.0	38.7	39.0	38.2	37.2	38.0	38.3	38.3	38.3	37.7	37.0	36.3	36.2	36.2	34.9
16††	39.4	40.4	41.1	40.2	39.4	38.0	36.3	35.3	34.6	35.0	35.7	36.3	36.9	37.1	36.7
17†	37.7	38.1	38.5	38.5	39.2	39.7	39.1	39.9	39.1	38.8	37.8	37.7	38.0	37.7	37.7
18	38.7	38.7	38.7	38.7	38.7	39.0	39.1	38.3	36.9	36.9	36.3	37.0	37.1	37.0	36.6
19	39.1	39.1	39.1	39.1	39.7	40.2	39.8	39.0	38.3	37.7	37.6	37.7	38.4	38.0	37.6
20	38.8	39.0	39.1	38.9	39.2	40.0	40.2	39.3	38.2	37.1	36.5	37.0	37.8	37.5	37.8
21	39.1	38.5	38.5	39.3	40.5	41.3	41.6	40.6	39.1	37.4	36.7	37.2	36.7	38.4	38.4
22	38.2	38.2	38.4	39.2	39.5	40.9	40.7	39.6	38.2	37.5	37.0	37.4	37.5	37.5	37.8
23	38.4	38.2	37.9	38.4	39.7	41.5	41.5	40.2	37.8	36.6	36.3	36.0	36.9	37.0	37.3
24	38.7	38.7	38.3	38.7	40.4	41.2	41.5	40.1	38.8	38.4	38.3	38.0	38.1	37.8	37.4
25†	38.5	38.5	38.3	38.1	39.2	41.1	41.2	40.5	39.1	38.4	37.7	37.8	38.3	38.3	38.0
26	39.2	39.1	38.3	38.2	39.0	40.1	41.0	40.8	38.7	37.3	36.8	36.8	37.3	37.2	37.7
27††	39.0	39.1	40.0	40.4	40.0	40.8	42.4	40.8	40.4	38.7	38.0	37.6	36.9	36.2	35.8
28	38.4	38.4	38.3	38.0	38.3	39.1	40.0	39.0	38.6	37.6	36.9	35.8	36.9	37.0	36.6
29	38.7	38.4	38.2	37.2	37.5	38.9	40.2	39.3	38.9	38.5	38.1	38.5	38.2	37.5	37.4
30	38.6	38.6	37.8	37.6	37.5	38.1	38.9	39.3	38.9	37.6	37.4	37.4	37.5	37.4	37.1
31	38.5	38.6	38.9	38.9	38.3	38.5	39.3	39.7	39.7	37.2	36.1	36.2	37.1	37.4	37.5
Mean	38.5	38.6	38.8	38.7	38.8	39.2	39.3	39.0	38.2	37.5	37.0	36.9	37.2	37.2	37.1
Mean†	38.2	38.4	38.7	38.5	38.6	39.3	39.3	39.4	38.5	38.1	37.6	37.6	37.9	37.8	37.5
Mean††	38.8	39.3	39.9	39.6	38.8	38.1	37.8	37.7	37.3	37.0	36.6	36.6	36.6	36.5	36.1

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

TABLE 6

Hourly values of Declination (Westerly), 1960

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

Month : December

2° plus tabular quantities

House G.M.T.										Maximum		Minimum		Date					
15	16	17	18	19	20	21	22	23	Mean	Time	Mag.	Time	Mag.		Range				
										H.	M.	H.	M.						
36.2	36.2	35.6	35.6	35.9	35.9	36.3	37.0	37.1	36.8	03	25	41	05	44	34	1	7.4	1††	
37.0	37.0	37.0	37.0	37.0	37.1	37.6	37.7	37.7	37.5	01	50	39	4	13	00	36	9	2.5	2††
37.0	37.2	37.6	37.6	37.5	37.5	37.6	37.6	38.2	37.8	03	05	39	0	10	35	36	8	2.2	3
37.0	37.6	37.5	37.3	37.2	37.2	37.5	37.6	37.7	37.7	02	00	39	0	09	15	36	1	2.9	4†
36.8	37.0	37.3	37.3	37.3	37.6	37.9	38.3	38.2	37.8	04	45	39	6	11	40	36	2	3.4	5
36.3	36.2	36.2	36.1	35.9	36.2	36.9	37.6	37.6	37.2	03	00	39	3	09	45	34	9	4.4	6
36.9	37.0	37.0	37.2	37.5	37.6	37.7	37.7	38.0	37.7	04	50	39	6	13	15	36	1	3.5	7
37.5	37.5	37.6	37.6	37.6	37.7	37.7	38.2	38.3	38.1	05	35	41	2	10	20	36	5	5.7	8
37.5	37.5	37.5	37.5	38.1	38.2	38.2	38.2	38.3	37.7	07	00	38	9	03	58	36	5	2.4	9
37.5	37.6	37.8	37.8	38.1	38.2	38.6	38.3	38.2	38.0	06	58	40	0	11	20	36	5	3.5	10
37.1	37.5	37.5	37.5	37.9	38.2	38.2	38.2	38.2	37.8	02	00	38	8	11	00	36	7	2.1	11†
36.8	37.1	37.2	37.5	37.1	37.1	37.4	37.6	38.2	37.9	03	00	39	2	11	10	36	5	2.7	12
37.1	37.5	37.5	37.6	37.6	37.9	38.2	38.2	38.3	37.7	04	10	39	0	07	32	36	2	2.8	13
37.9	38.2	38.3	38.6	38.6	38.9	39.0	39.0	39.0	38.7	02	35	39	6	14	00	37	9	1.7	14†
35.5	34.8	34.8	35.1	35.8	36.1	36.9	38.3	38.6	37.0	00	01	39	0	14	00	34	8	4.2	15††
36.9	37.3	37.3	37.3	37.1	37.1	37.0	37.0	37.4	37.4	02	00	41	1	07	40	34	2	6.9	16††
37.7	38.1	38.1	38.3	38.3	38.3	38.3	38.4	38.8	38.4	06	25	40	5	00	01	37	7	2.8	17†
36.6	36.4	37.1	37.8	38.4	38.5	38.4	38.7	39.0	37.9	05	55	39	2	10	12	35	6	3.6	18
37.7	38.3	38.5	38.5	38.4	38.4	38.4	38.5	38.5	38.6	05	35	40	4	10	25	37	3	3.1	19
38.1	38.4	38.5	38.5	38.8	39.3	38.8	38.8	38.9	38.5	05	45	40	6	09	15	36	4	4.2	20
37.8	37.9	38.5	38.6	38.6	38.9	39.1	38.2	38.2	38.7	05	30	41	7	10	35	36	5	5.2	21
37.9	37.9	38.1	38.4	38.5	38.5	38.5	38.5	38.5	38.4	05	00	40	9	09	50	36	8	4.1	22
37.6	37.7	38.3	38.5	38.7	38.5	38.5	38.4	38.4	38.3	05	50	41	8	11	00	35	7	6.1	23
38.0	38.3	38.4	39.0	39.0	39.0	39.0	39.1	38.8	38.9	05	25	41	6	13	45	37	3	4.3	24
38.3	38.5	38.7	38.7	38.7	39.1	39.1	39.1	39.1	38.8	06	00	41	2	10	05	37	4	3.8	25†
38.0	38.2	38.3	38.3	38.3	38.4	38.6	38.9	38.9	38.5	06	30	41	1	10	00	36	6	4.5	26
36.5	37.0	36.2	35.8	36.1	36.8	37.6	38.2	38.3	38.3	05	43	42	6	18	00	35	5	7.1	27††
36.6	37.0	37.0	37.6	38.0	38.3	38.2	38.3	38.3	37.8	06	00	40	3	11	00	35	2	5.1	28
37.2	37.1	37.5	37.5	37.5	37.5	37.5	38.2	38.2	38.1	05	45	40	3	15	46	36	8	3.5	29
36.9	37.5	37.6	38.2	37.5	37.6	37.6	38.2	38.2	37.9	06	30	39	6	14	30	36	8	2.8	30
37.5	37.5	37.5	37.5	38.1	37.5	37.5	37.5	37.5	37.9	06	30	40	2	10	00	36	1	4.1	31
37.2	37.4	37.5	37.6	37.7	37.8	38.0	38.2	38.3	38.0						4.0	Mean			
37.6	38.0	38.0	38.1	38.1	38.3	38.4	38.5	38.6						Mean†					
36.4	36.5	36.2	36.2	36.4	36.6	37.1	37.6	37.8						Mean††					

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

TABLE 7

Hourly values of Horizontal Force, 1960

Month . July (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
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	498	506	509	529	555	593	596	582	561	535	515	506	504	507	500
2	500	500	512	537	553	592	593	608	589	579	554	521	495	507	509
3	514	512	516	538	556	584	615	605	597	581	554	522	519	525	525
4	520	520	519	539	565	600	613	613	602	576	548	527	520	518	511
5	524	523	542	536	547	576	597	597	576	568	536	526	519	511	508
6	521	526	531	545	578	601	614	606	600	580	549	516	515	511	509
7†	517	524	543	571	601	616	620	619	616	599	578	558	543	536	537
8†	535	543	558	584	614	622	607	600	584	559	548	548	553	552	548
9†	538	545	564	604	637	660	665	672	645	605	577	549	550	554	554
10	549	556	564	584	611	636	640	617	593	580	582	577	563	554	549
11	529	535	551	580	629	644	644	631	586	576	550	525	530	537	543
12	540	549	566	596	609	630	618	607	594	587	565	541	531	556	528
13	537	542	542	571	596	626	628	647	634	603	565	542	528	555	528
14††	541	540	548	571	594	629	593	616	591	589	554	527	509	506	514
15††	571	575	577	599	624	621	647	647	613	579	524	506	476	427	416
16††	481	426	428	448	481	507	519	520	482	463	460	455	435	424	424
17	459	458	467	483	508	557	555	539	530	510	492	490	486	477	471
18	496	502	510	539	561	595	584	589	573	565	548	534	525	560	502
19††	522	528	534	553	587	624	631	613	579	553	483	423	432	468	473
20	493	510	514	533	566	596	605	608	581	555	525	498	493	511	511
21	508	515	518	543	580	578	576	582	584	579	571	553	541	532	531
22	530	536	548	571	609	627	613	598	583	568	559	548	541	542	540
23	516	527	541	561	603	624	628	629	612	594	568	546	534	537	543
24	536	541	540	561	599	624	624	631	610	593	580	565	563	553	547
25†	537	537	547	567	613	634	639	628	605	593	581	562	553	558	558
26	550	551	558	576	603	639	652	654	645	625	597	569	550	544	545
27†	536	536	555	586	598	618	631	629	611	603	580	558	550	556	556
28	547	549	566	591	627	653	658	653	637	632	620	597	568	560	567
29	571	567	561	576	581	611	604	608	613	609	586	564	559	556	551
30	524	531	530	546	577	608	604	603	593	576	572	553	515	522	557
31††	546	529	521	527	571	604	616	613	597	552	532	494	491	498	497
Mean	525	427	535	556	585	611	614	612	594	576	553	532	522	524	521
Mean†	533	537	553	582	613	630	632	630	612	592	573	555	550	551	551
Mean††	532	520	522	540	571	597	601	602	572	547	511	481	469	465	465

†Five international quiet days.

††Five international disturbed days.

Δ Loss of record ; day omitted for means.

TABLE 7

Hourly values of Horizontal Force, 1960

Month : July (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
39,000 γ plus tabular quantities

Hours G.M.T.										Maximum		Minimum		Range			
15	16	17	18	19	20	21	22	23	Mean	Time	Mag.	Time	Mag.				
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	M. H.	γ	M. H.	γ	γ	γ		
488	487	491	497	495	490	492	495	498	518	06	05	619	15	42	482	137	1
506	505	504	509	509	510	512	512	514	530	07	08	628	12	12	491	137	2
524	523	523	520	521	516	518	525	521	540	06	06	631	11	20	510	121	3
507	510	506	511	513	512	516	517	520	538	07	20	641	17	18	502	139	4
508	506	508	512	517	517	516	516	518	534	05	53	621	16	06	504	117	5
509	512	513	516	521	523	522	518	517	540	05	53	624	16	06	505	119	6
534	534	535	534	535	535	533	532	533	558	05	34	631	00	01	515	116	7†
542	541	538	538	538	539	540	539	539	559	05	06	626	00	01	535	91	8†
552	551	551	551	551	551	551	546	546	578	07	02	700	00	10	537	163	9†
544	543	546	546	545	546	539	531	530	568	04	48	644	23	50	526	118	10
544	543	543	540	540	538	535	537	538	560	05	12	656	11	15	523	133	11
524	525	528	532	534	538	539	538	536	559	05	14	636	15	10	522	114	12
530	530	523	532	533	538	540	543	543	561	06	50	654	16	50	520	134	13
527	521	522	509	514	527	535	546	566	550	05	02	664	17	40	501	163	14††
410	413	431	426	423	431	475	476	466	515	06	42	672	15	20	406	266	15††
424	423	426	438	450	450	454	457	458	456	05	10	547	01	15	468	79	16††
474	473	485	484	483	486	489	488	487	493	04	56	572	01	28	452	120	17
502	501	503	510	509	512	523	519	521	533	05	08	614	14	50	489	125	18
464	461	472	472	486	496	489	490	489	513	05	10	660	11	22	390	270	19††
502	505	506	507	512	500	500	506	512	527	07	12	629	11	47	481	148	20
502	526	522	523	525	526	527	526	525	541	04	15	592	00	01	506	86	21
534	532	533	533	528	525	526	525	527	553	05	15	641	21	40	520	121	22
538	535	532	531	534	534	535	537	537	557	06	48	640	00	25	510	130	23
543	540	538	537	537	537	537	537	534	537	06	10	657	22	00	531	126	24
536	552	550	546	543	543	545	547	550	568	05	38	642	01	04	535	107	25†
550	554	552	545	545	547	546	541	534	564	07	00	663	22	58	530	133	26
550	548	545	547	550	551	551	552	551	579	05	28	639	00	30	533	106	27†
572	570	569	565	560	553	556	561	562	587	06	20	662	00	15	546	116	28
543	519	501	493	499	505	523	536	528	557	05	10	629	17	50	478	151	29
531	524	522	522	532	536	539	545	549	550	05	10	637	12	02	505	132	30
497	499	491	506	511	514	513	519	521	532	06	12	628	11	28	484	144	31††
517	516	516	517	519	520	523	524	525	544						134		Mean
547	545	544	543	543	544	544	543	544									Mean†
464	463	468	470	477	484	493	498	500									Mean††

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

TABLE 8

Hourly values of Horizontal Force, 1960

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

Month : August

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	523	524	525	534	539	563	589	604	600	597	582	548	537	527	532
2	537	538	549	573	599	626	638	636	622	599	576	551	535	527	518
3	537	543	551	573	596	621	621	613	596	577	553	536	531	536	534
4†	536	545	551	572	598	623	628	640	630	604	573	551	544	542	540
5†	539	543	548	566	594	615	617	611	599	586	577	564	557	553	549
6	547	557	567	594	631	666	683	656	635	611	580	555	547	554	554
7	557	564	564	582	607	619	620	630	639	616	605	585	561	556	554
8	557	558	561	585	626	658	679	685	645	631	613	577	556	551	544
9	525	530	533	560	604	626	604	567	539	545	548	528	513	524	524
10	530	535	541	568	609*	646	676	660	642	611	576	552	542	545	539
11	534	539	552	571	582	573	619	628	625	620	600	556	529	529	536
12	534	538	528	545	608	628	617	631	598	564	558	551	509	502	501
13	541	542	556	577	601	629	635	638	635	623	596	574	558	541	532
14	528	532	551	585	648	675	675	636	606	583	567	552	547	538	533
15	543	545	553	573	607	640	651	654	649	617	594	569	556	549	544
16††	543	547	559	588	627	653	658	646	635	623	611	589	569	549	541
17††	475	462	468	456	443	471	464	555	541	518	494	465	458	484	485
18	467	482	500	534	554	582	579	562	568	541	519	519	503	486	482
19	503	505	520	555	584	607	625	630	617	589	551	536	534	535	524
20	512	515	530	564	584	616	588	537	536	497	487	499	507	505	495
21††	508	513	538	581	616	615	629	634	613	569	551	548	535	524	513
22	512	496	492	490	537	568	595	610	615	607	589	565	448	534	525
23	522	533	545	565	594	615	634	637	623	602	584	568	553	546	541
24†	527	532	550	602	646	689	693	675	642	607	573	556	552	551	549
25†	530	531	539	577	621	639	644	629	608	583	562	549	549	557	557
26†	553	556	566	589	621	656	675	673	617	627	611	589	574	566	560
27	532	538	548	580	621	674	681	659	629	611	583	559	556	561	562
28	552	549	553	555	571	591	588	615	605	579	564	548	540	523	505
29††	541	578	606	634	672	664	544	481	514	528	539	535	523	517	513
30††	548	495	495	489	492	463	460	458	443	447	454	450	460	443	436
31	547	496	508	520	548	570	586	585	576	533	518	512	499	495	488
Mean	530	531	540	562	593	616	619	615	602	582	564	546	535	531	526
Mean†	537	541	551	581	616	644	651	646	625	601	579	562	555	554	551
Mean††	523	519	533	550	570	573	551	555	549	537	530	517	509	503	498

†Five international quiet days.

††Five international disturbed days.

Δ Loss of record ; day omitted for means.

TABLE 8

Hourly values of Horizontal Force, 1960

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

39,000 γ plus tabular quantities

Month : August

Hours G.M.T.										Maximum		Minimum		Date			
15	16	17	18	19	20	21	22	23	Mean		Range						
γ	γ	γ	γ	γ	γ	γ	γ	γ	Time	Mag.	Time	Mag.					
γ	γ	γ	γ	γ	γ	γ	γ	γ	H.	M.	H.	M.	γ	γ			
525	526	526	526	527	531	531	543	540	546	06	40	610	00	26	521	89	1
518	527	530	521	520	525	529	536	536	557	06	12	646	15	06	515	131	2
531	539	537	534	533	537	539	540	538	556	05	16	630	11	42	528	102	3
534	534	535	534	536	537	537	536	538	562	06	56	646	16	00	533	113	4†
548	546	544	544	543	546	546	547	548	564	06	10	622	00	08	534	88	5†
550	550	547	548	552	553	552	554	559	579	05	40	690	17	02	544	146	6
547	547	551	551	553	555	555	555	556	576	07	40	657	17	12	543	114	7
539	525	505	500	502	502	516	527	522	569	06	52	696	18	08	497	199	8
523	520	518	516	514	520	527	530	531	540	04	24	643	12	00	509	134	9
532	526	528	511	508	517	524	530	533	562	05	30	688	18	48	504	184	10
526	526	537	538	537	542	544	544	542	560	06	30	646	15	34	521	125	11
508	510	518	524	526	529	533	534	540	547	06	40	647	13	15	496	151	12
531	528	532	533	534	533	533	529	529	565	05	10	636	15	40	527	109	13
540	559	557	549	542	544	547	542	542	570	05	29	744	00	20	525	219	14
540	539	540	542	543	549	554	553	547	573	06	19	659	16	18	537	122	15
493	433	432	434	429	437	457	464	474	541	05	26	669	19	58	420	249	16††
477	437	450	445	421	407	415	452	467	468	06	23	608	03	35	321	287	17††
481	484	487	493	494	496	496	499	502	513	05	34	602	00	01	462	140	18
521	528	539	517	499	473	462	488	508	540	06	39	649	20	34	464	185	19
500	501	494	489	485	488	488	501	501	517	04	54	647	19	14	479	168	20
501	502	499	509	514	501	508	513	515	544	06	42	666	17	46	493	173	21††
521	523	518	515	527	528	526	526	520	541	08	28	622	02	34	471	151	22
538	532	525	535	532	532	532	532	530	560	07	05	645	00	07	519	126	23
545	540	533	534	533	538	536	534	533	574	05	24	699	00	05	526	173	24†
556	549	545	545	544	547	554	554	555	568	05	30	649	00	30	526	123	25†
554	549	548	548	549	546	538	538	535	582	05	42	683	23	58	526	157	26†
535	547	538	525	515	521	553	524	525	571	05	38	692	20	15	508	184	27
504	517	527	523	523	526	531	535	538	548	06	30	665	14	13	502	163	28
525	522	517	501	498	493	481	485	493	538	04	44	719	06	43	464	255	29††
444	462	470	477	477	479	488	491	490	471	05	31	518	08	26	412	106	30††
491	493	498	505	502	504	507	515	513	521	06	37	603	14	02	485	118	31
523	521	520	518	517	517	521	524	526	549						154		Mean
547	544	541	541	541	543	542	542	542									Mean†
488	475	474	473	468	463	470	481	488									Mean††

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

TABLE 9

Hourly values of Horizontal Force, 1960

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

Month : September

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†	512	516	528	550	579	596	595	588	568	552	547	547	545	536	527
2	524	526	538	561	618	642	650	647	619	578	548	527	532	528	502
3††	506	485	496	540	581	619	618	582	555	540	531	523	521	514	499
4††	509	513	532	596	630	628	612	633	501	444	411	416	433	411	420
5††	452	465	432	467	483	492	492	505	456	319	274	257	305	333	346
6	481	460	487	544	554	568	556	497	490	500	497	488	479	474	495
7††	487	493	507	552	594	616	610	598	574	554	532	512	481	486	493
8	490	495	507	552	599	633	645	642	613	565	532	512	515	509	496
9	506	508	515	556	540	626	649	634	595	565	531	508	509	498	498
10	507	506	516	559	612	623	645	634	605	581	552	533	533	525	518
11	507	510	537	572	606	656	671	639	615	584	557	543	538	529	522
12	511	512	535	580	592	619	637	523	584	567	531	536	532	520	511
13	524	525	550	579	603	603	595	590	565	543	517	501	512	502	497
14	500	500	510	559	593	621	623	603	586	573	566	548	536	522	517
15†	519	520	536	571	612	643	654	633	619	601	593	584	576	557	545
16†	535	545	567	610	664	706	715	684	641	607	585	573	569	557	550
17	542	538	551	586	618	662	669	645	615	587	571	570	573	564	555
18	528	519	533	559	598	607	646	645	606	584	549	550	549	541	531
19†	521	520	531	576	622	647	645	630	604	584	572	570	564	553	543
20	534	532	548	589	632	664	671	648	625	606	589	576	570	557	548
21	548	545	558	592	632	669	676	657	628	606	584	570	552	539	535
22	531	530	542	581	615	646	645	618	587	566	555	555	557	546	543
23	530	528	546	573	619	656	674	653	598	558	547	537	548	544	535
24	534	531	526	529	594	664	675	626	588	553	514	513	531	527	520
25†	510	506	515	554	608	654	670	650	625	595	572	558	552	543	535
26	523	523	539	591	638	686	726	686	635	589	563	551	551	548	545
27	515	508	510	542	582	628	634	614	590	557	536	525	520	520	520
28	522	526	544	575	609	635	639	632	613	587	551	541	540	538	528
29	525	526	546	575	615	641	649	635	600	583	557	539	529	515	489
30††	518	515	527	545	587	589	606	585	567	554	550	540	518	513	472
Mean	515	514	527	564	601	631	640	622	589	559	537	527	526	518	511
Meant†	519	521	535	572	617	649	656	637	611	588	574	566	561	549	540
Mean††	494	494	499	540	575	589	588	581	531	482	460	450	452	451	446

†Five international quiet days.

††Five international disturbed days.

Δ Loss of record, † day omitted for means.

TABLE 9

Hourly values of Horizontal Force, 1960

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

Month : September

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.				
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H.	M.	γ	H.	M.	γ	γ	
524	523	522	523	524	524	524	524	526	542	04	58	600	00	40	510	90	1†
494	498	507	504	507	513	522	504	516	546	06	20	655	18	20	488	167	2
497	504	506	505	513	514	514	516	515	529	06	34	673	01	12	461	212	3††
409	435	442	476	448	411	409	439	437	483	05	22	661	10	42	392	269	4††
361	394	395	407	445	432	439	445	476	411	06	12	557	10	40	221	336	5††
470	472	474	476	486	490	486	481	481	495	05	30	602	00	56	457	145	6
487	493	488	507	504	497	506	501	496	524	05	35	627	12	22	458	169	7††
492	492	492	493	505	505	509	512	513	534	06	22	663	00	01	486	177	8
505	504	503	497	497	502	503	511	507	532	06	06	660	13	30	487	173	9
512	502	488	488	486	492	502	502	504	539	05	30	661	19	00	481	180	10
520	517	508	500	499	511	513	517	507	549	05	58	679	18	32	492	187	11
498	496	499	506	508	514	515	520	525	540	06	14	643	16	22	492	151	12
505	511	511	512	513	506	512	514	509	533	04	55	624	14	00	494	130	13
516	519	521	518	515	517	520	522	521	543	05	30	640	00	01	496	144	14
539	536	535	533	534	535	534	536	536	566	06	06	658	00	30	517	141	15†
543	535	532	537	538	538	537	537	539	581	05	52	722	17	00	531	191	16†
548	548	546	548	551	543	553	559	546	575	05	38	675	23	59	528	147	17
521	520	519	522	519	519	521	520	519	551	06	20	659	01	15	514	145	18
539	536	534	531	532	534	535	536	536	562	06	02	654	01	12	517	137	19†
545	538	540	541	548	550	557	549	543	575	05	56	679	00	38	530	149	20
521	511	503	506	522	528	522	522	525	565	05	56	679	16	45	501	178	21
544	531	526	525	529	539	545	537	535	560	05	32	653	17	45	524	129	22
534	535	533	532	534	535	534	533	527	560	06	22	689	00	34	525	164	23
525	510	495	497	502	502	510	512	512	541	05	56	595	16	50	489	206	24
533	534	534	534	530	530	532	527	526	559	06	22	675	00	50	505	170	25†
543	544	542	541	537	534	529	521	519	571	05	45	736	01	10	504	232	26
520	519	517	518	516	510	513	515	519	540	05	22	644	20	10	508	136	27
517	518	516	511	514	518	522	526	526	552	05	15	656	18	14	509	147	28
494	509	509	506	506	509	520	536	520	547	05	30	655	15	18	478	177	29
469	479	484	485	494	511	512	508	510	527	07	18	621	14	25	465	156	30††
508	509	507	509	512	512	515	516	516	541						171		Mean
536	533	531	532	532	532	532	532	533									Mean†
445	461	463	476	481	473	476	482	487									Mean††

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE 10

Hourly values of Horizontal Force, 1960

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

Month : October

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††	509	512	538	557	542	574	547	540	520	509	492	505	486	473	475
2	510	508	522	552	565	576	567	548	519	509	479	465	460	459	459
3	494	496	513	544	580	599	597	573	553	541	506	495	502	506	504
4	510	512	527	567	614	646	660	628	593	558	535	533	534	523	512
5	495	486	508	548	586	605	597	570	549	524	526	530	528	518	507
6††	508	502	517	577	644	575	532	497	467	544	537	449	384	385	322
7††	408	331	373	410	414	414	412	373	328	358	328	344	369	368	354
8	448	441	444	471	496	541	551	552	525	507	483	473	469	476	478
9	474	468	472	493	550	568	581	548	530	Δ	Δ	Δ	Δ	Δ	Δ
10	Δ	Δ	Δ	Δ	555	582	598	597	584	554	531	514	509	503	497
11	488	485	496	543	598	638	629	584	536	519	497	500	501	491	487
12†	506	504	506	528	571	606	634	631	617	593	570	553	541	532	528
13†	537	533	549	571	595	614	626	619	614	609	591	568	540	542	544
14†	542	536	543	581	620	638	641	628	615	601	586	573	562	553	544
15	535	533	551	577	626	647	668	636	616	605	595	565	531	502	491
16	503	511	531	554	583	600	615	614	586	572	557	518	530	510	506
17	513	522	542	582	623	662	673	649	624	598	573	553	567	528	523
18	521	499	513	555	574	618	619	609	573	538	504	487	485	491	482
19	519	498	512	537	558	582	591	596	586	573	557	543	526	515	514
20	515	514	526	550	581	600	600	578	549	532	524	524	526	510	491
21	510	513	528	563	596	621	629	608	578	551	539	534	535	534	527
22†	524	524	538	571	606	629	637	624	603	579	565	556	551	547	542
23†	539	537	556	593	640	668	675	651	617	559	565	561	561	554	551
24	534	531	548	583	621	649	653	637	609	585	567	560	552	548	544
25††	502	511	531	572	598	612	612	562	498	447	416	419	405	389	394
26††	441	443	462	473	472	501	488	487	471	466	448	436	412	426	408
27	486	470	462	478	494	509	534	558	555	544	500	464	434	452	466
28	488	492	497	540	548	559	514	510	496	483	464	429	423	423	412
29	487	484	507	535	561	572	567	553	525	513	488	452	462	462	470
30	495	502	506	516	545	556	564	558	518	506	500	495	464	464	472
31	490	498	511	526	547	587	589	562	550	533	520	514	512	508	510
Mean	502	498	512	543	572	593	594	577	551	536	518	503	495	489	483
Mean†	530	527	538	569	606	631	643	631	613	588	575	562	551	546	542
Mean††	474	460	484	518	534	535	518	492	457	465	444	431	411	408	391

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE 10

Hourly values of Horizontal Force, 1960

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

Month : October

39,000 γ plus tabular quantities

Hours G.M.T.										Maximum		Minimum		Range	Date	
15	16	17	18	19	20	21	22	23	Mean		Range					
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	Time	Mag.	Time	Mag.			
460	464	468	476	497	497	514	515	512	508	H. 04	M. 54	H. 13	M. 52	430	159	1††
447	434	455	475	480	483	488	491	495	498	05	15	15	41	426	162	2
505	501	509	511	514	513	516	513	508	525	05	15	00	04	490	124	3
497	468	437	462	515	443	469	467	486	529	05	42	19	55	420	248	4
495	499	507	517	517	523	526	517	522	529	05	20	01	14	482	137	5
280	266	258	332	366	342	345	341	406	432	04	01	16	49	226	452	6††
388	372	389	427	414	422	449	467	447	390	22	15	00	50	289	187	7††
466	460	458	457	472	475	474	477	473	482	06	30	01	20	428	137	8
Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	9
494	492	491	488	490	487	487	492	492	Δ	Δ	Δ	Δ	Δ	Δ	Δ	10
490	489	490	492	491	495	505	505	503	519	05	42	13	47	478	254	11
525	522	520	519	517	523	517	530	540	547	06	02	01	15	501	141	12†
533	537	534	533	532	530	531	539	534	561	06	25	20	30	529	105	13†
541	539	539	539	536	536	537	539	540	567	05	44	00	38	530	120	14†
501	493	480	462	465	486	488	499	499	544	05	45	18	30	449	230	15
513	517	519	519	518	519	518	513	516	539	06	08	00	02	501	119	16
526	523	520	516	519	522	522	523	559	559	06	05	00	05	511	176	17
476	483	478	457	481	471	492	491	488	516	05	18	18	37	448	196	18
512	504	499	494	497	499	507	510	516	531	06	45	00	14	490	111	19
480	478	487	499	508	512	511	514	512	526	06	06	15	42	473	135	20
524	522	519	511	510	513	524	529	524	543	05	45	18	05	508	125	21
539	538	536	539	537	540	541	542	543	560	05	50	00	40	521	119	22†
547	543	543	539	540	542	550	549	543	572	05	30	01	00	536	141	23†
548	491	414	453	444	476	490	492	498	543	05	45	17	06	393	270	24
379	407	369	332	361	388	447	433	440	459	05	44	17	48	328	307	25††
442	423	428	445	460	479	480	484	487	457	04	54	14	18	397	124	26††
485	447	452	469	469	465	495	483	492	486	07	45	12	20	422	145	27
401	406	438	478	466	472	484	488	488	475	05	10	15	01	396	180	28
467	464	475	471	496	492	486	485	490	498	04	06	11	05	447	132	29
464	478	493	485	486	507	501	496	495	503	06	03	12	13	458	125	30
491	494	503	516	502	499	505	505	501	520	05	14	00	01	485	115	31
480	475	473	480	487	488	514	498	501	515						172	Mean
537	536	534	534	532	534	535	540	540							Mean†	
390	386	382	402	420	426	447	448	458							Mean††	

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

TABLE 11

Hourly values of Horizontal Force, 1960

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

Month : November

39,000γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	505	515	533	559	572	582	579	561	559	557	553	541	526	516	506
2	518	524	543	566	594	572	595	566	536	515	508	507	503	495	501
3	512	513	521	550	587	606	613	599	568	545	516	505	510	505	509
4††	497	495	510	537	558	578	569	558	520	502	476	473	454	457	443
5	494	508	528	557	574	589	579	567	553	524	512	508	502	493	491
6	504	510	529	562	585	605	628	611	592	566	553	538	522	505	512
7†	516	516	524	548	574	607	600	583	568	552	544	534	526	520	521
8†	530	534	550	588	625	644	639	632	604	591	577	565	556	546	538
9†	521	525	537	555	574	584	588	585	572	563	557	549	539	533	530
10	529	535	557	589	612	619	620	621	628	611	595	585	563	548	547
11	563	571	584	607	675	671	677	612	596	602	581	518	504	518	514
12	525	524	529	557	574	591	594	600	593	582	568	555	545	541	563
13††	425	435	445	443	423	339	372	297	221	203	221	283	280	235	257
14††	394	368	392	414	431	469	484	469	471	475	467	456	437	435	432
15††	438	450	495	533	544	549	520	523	506	516	488	486	472	470	467
16††	430	391	372	284	410	382	413	394	Δ	Δ	Δ	Δ	Δ	Δ	Δ
17	Δ	Δ	Δ	Δ	534	542	554	554	540	517	503	487	483	481	469
18†	466	467	478	498	522	540	539	534	521	511	503	504	496	487	486
19†	495	508	534	562	599	618	606	580	563	546	535	555	548	535	521
20	534	524	534	556	598	623	611	586	550	521	507	509	512	511	501
21	523	529	552	583	616	631	613	564	504	457	460	480	463	458	449
22	483	490	500	516	523	529	533	539	515	506	503	491	480	475	479
23	502	509	529	550	568	573	575	557	551	536	525	511	505	502	494
24	505	504	514	543	580	616	633	608	591	561	536	521	518	528	521
25	521	508	591	513	508	515	510	516	518	499	490	470	476	477	464
26	496	499	515	536	544	551	523	503	495	500	500	507	498	494	493
27	507	512	529	553	574	588	572	567	544	523	526	528	527	516	501
28	512	514	537	561	578	571	556	541	527	519	526	519	510	504	506
29	516	526	545	573	600	616	609	586	564	549	534	531	525	522	
30	501	527	535	553	581	583	582	571	573	574	558	548	543	532	526
Mean	501	505	524	545	568	577	576	559	540	526	516	510	502	495	493
Mean†	506	510	525	550	579	599	594	583	566	553	543	541	533	524	519
Mean††	438	437	460	482	489	484	486	462	430	424	413	424	411	399	399

†Five international quiet days.

††Five international disturbed days

Δ Loss of record ; day omitted for means.

TABLE 11

Hourly values of Horizontal Force, 1960

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

Month : November

39,000γ plus tabular quantities

Hours G.M.T.									Maximum		Minimum		Range	Date			
15	16	17	18	19	20	21	22	23	Mean		Range						
γ	γ	γ	γ	γ	γ	γ	γ	γ	Time	Mag.	Time	Mag.	γ	γ			
499	500	508	513	510	510	510	513	511	531	04	49	592	15	30	497	95	1
501	594	597	504	509	515	519	520	514	534	04	36	608	13	03	489	119	2
510	582	507	510	512	514	510	502	499	534	05	54	616	22	45	495	121	3
475	465	458	465	492	489	486	487	488	497	05	10	601	14	20	432	169	4††
493	494	495	496	498	500	502	502	503	519	04	45	595	13	30	488	107	5
414	515	516	516	514	512	524	522	520	541	06	01	633	12	55	502	131	6
520	523	524	524	526	526	529	529	530	540	04	56	614	00	37	514	100	7†
535	531	530	529	530	527	525	522	520	561	05	15	649	23	15	518	131	8†
528	530	529	528	529	527	526	530	529	544	06	05	598	00	01	520	78	9†
543	541	542	544	545	551	554	556	560	571	07	22	651	00	01	528	123	10
514	513	516	518	519	533	525	525	518	561	03	47	707	11	36	493	214	11
558	553	544	477	400	327	414	467	442	526	07	25	607	20	00	355	252	12
257	257	297	347	423	355	361	371	402	331	01	01	518	08	15	57	461	13††
446	439	440	460	445	451	451	450	442	442	06	28	526	01	37	347	179	14††
467	428	409	392	414	423	417	459	460	472	02	25	574	18	46	386	188	15††
△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	16††
464	473	484	480	471	468	468	468	469	499	05	30	553	13	16	485	68	17†
487	491	490	493	494	494	494	494	493	499	05	17	638	00	01	494	144	18†
514	515	514	515	516	521	524	532	527	541	05	17	638	00	01	494	144	19†
506	508	513	512	516	517	520	520	522	534	05	25	642	14	02	498	144	20
446	437	412	384	437	455	466	482	489	495	05	20	633	18	02	362	171	21
473	468	468	467	481	486	489	493	500	495	06	14	548	17	38	490	58	22
492	493	492	500	506	509	508	509	509	521	05	56	581	14	22	490	91	23
521	522	524	530	530	540	531	517	524	542	06	08	639	00	38	499	140	24
454	457	490	482	479	487	491	489	493	496	03	52	538	16	10	506	32	25
495	502	506	508	509	504	498	504	507	508	04	37	560	08	18	483	77	26
493	490	495	507	507	504	519	525	512	526	05	11	597	15	52	486	111	27
497	506	511	514	518	512	514	514	513	524	03	35	584	14	30	488	96	28
518	517	522	529	526	533	529	525	528	547	05	22	622	00	01	515	107	29
520	525	523	530	538	543	543	522	514									30
492	496	496	493	497	495	499	503	502	517						135		Mean
517	518	517	512	519	519	520	521	520									Mean†
411	397	401	416	444	430	429	442	448									Mean††

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

TABLE 12

Hourly values of Horizontal Force, 1960

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

Month : December

39,000γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1††	527	547	550	582	523	499	400	445	440	472	463	451	447	450	407
2††	455	464	485	497	524	524	516	522	528	523	510	512	495	487	470
3	498	502	514	534	541	559	567	563	560	553	537	523	516	510	509
4†	513	523	543	558	580	588	584	580	567	562	557	547	533	513	507
5	509	515	531	553	579	596	589	592	578	548	568	553	519	511	515
6	537	539	557	587	606	614	594	570	550	542	535	527	498	489	477
7	487	496	521	545	579	592	588	580	576	569	564	551	527	505	497
8	509	484	492	542	572	598	612	600	600	584	551	527	523	519	515
9	526	524	521	526	546	566	553	562	572	561	548	535	517	510	503
10	519	516	519	522	548	589	605	612	603	596	572	545	530	529	526
11†	529	527	536	563	593	624	641	630	619	589	561	536	524	514	512
12	525	525	529	541	555	583	601	591	589	581	557	535	523	522	517
13	505	494	498	514	538	559	552	533	520	521	521	520	507	502	510
14†	532	540	552	571	581	601	608	609	596	592	587	586	581	568	552
15††	537	534	536	540	563	585	587	580	556	529	500	461	431	416	403
16††	459	475	485	479	471	455	460	458	443	468	464	464	458	457	460
17†	496	500	513	523	543	546	550	547	540	529	526	524	518	516	505
18	525	529	543	548	563	570	556	519	478	505	483	488	485	477	474
19	515	519	525	547	566	579	566	516	501	510	517	517	518	520	514
20	529	529	539	554	573	582	566	537	509	507	510	507	514	513	507
21	517	514	529	569	591	595	584	573	560	543	528	531	536	529	521
22	512	509	517	548	569	575	558	530	515	514	511	519	518	516	522
23	512	513	529	564	591	605	599	571	541	513	510	510	511	505	508
24	529	524	541	577	614	623	606	581	589	549	535	540	536	516	506
25†	533	528	531	564	606	630	620	603	571	539	528	529	532	530	529
26	530	534	541	576	633	649	637	616	573	540	542	544	536	533	539
27†	550	551	564	590	612	643	685	642	587	552	542	527	483	455	434
28	478	480	489	509	544	569	573	537	526	502	500	488	505	500	483
29	505	502	512	519	548	573	584	571	545	527	509	517	518	506	499
30	506	509	520	546	582	593	598	577	449	512	520	526	519	510	495
31	509	508	517	549	585	607	610	608	548	506	488	509	509	509	501
Mean	513	515	525	546	568	583	579	566	549	537	527	521	512	504	497
Mean†	521	524	535	556	581	598	601	594	579	562	552	544	538	528	521
Mean††	506	514	524	538	539	541	530	529	511	509	499	483	463	453	435

†Five international quiet days.

††Five international disturbed days.

△Loss of record ; day omitted for means.

TABLE 12—*contd.*

Hourly values of Horizontal Force, 1960

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

Month December

99,000 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.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
380	413	388	388	433	440	451	460	471	159	05 15	615	06 32	299	316	1††
473	470	469	481	495	497	507	507	502	496	04 21	551	00 01	453	98	2††
508	508	515	511	506	507	509	509	511	524	06 12	572	00 11	495	77	3
501	507	502	499	499	503	508	508	508	533	05 15	596	15 17	498	98	4†
512	511	510	514	510	520	522	522	532	538	05 29	603	16 34	504	99	5
454	413	432	428	424	441	466	484	487	512	04 50	622	18 42	420	202	6
490	486	490	507	512	514	534	511	520	531	05 43	605	16 15	484	121	7
511	511	514	514	518	520	522	523	525	537	05 02	640	01 15	475	165	8
515	510	490	506	520	519	516	515	515	528	07 30	583	16 58	491	92	9
521	526	524	526	521	522	541	533	532	545	07 16	620	02 32	508	112	10
516	521	526	531	533	535	535	529	526	552	06 05	650	13 19	509	141	11†
511	499	484	501	507	500	500	512	515	533	05 58	610	17 21	481	129	12
515	514	514	516	516	518	521	523	528	519	05 00	564	01 06	491	73	13
541	532	534	535	537	540	539	542	541	562	06 50	616	00 07	529	87	14†
391	374	355	371	401	398	420	459	449	474	05 09	595	16 49	349	246	15††
464	467	471	479	485	488	487	489	490	470	06 25	511	06 51	414	97	16††
503	508	511	513	510	519	526	524	530	522	05 38	562	00 01	495	67	17†
459	438	435	471	492	503	501	504	507	502	05 15	608	16 31	429	179	18
512	516	525	523	524	519	526	522	530	526	05 36	591	08 30	492	99	19
513	515	518	509	514	541	523	518	523	527	05 06	588	09 36	498	90	20
493	496	491	503	510	527	537	524	516	534	04 07	613	15 05	486	127	21
516	515	511	511	518	521	524	520	517	524	04 25	588	01 28	503	85	22
495	503	512	519	521	522	526	530	531	531	04 32	618	15 20	493	125	23
514	519	520	521	524	528	527	532	536	545	05 15	626	14 22	500	126	24
528	528	529	528	529	537	535	536	533	548	04 57	636	10 10	524	112	25†
537	530	532	535	536	544	546	544	546	557	05 08	656	15 58	521	135	26
441	458	422	397	399	426	446	467	472	514	05 51	695	18 48	388	307	27††
480	470	462	482	504	509	505	505	506	504	06 05	684	16 40	456	228	28
487	490	478	487	491	496	496	500	501	515	05 38	591	17 12	476	115	29
494	503	514	524	506	508	509	511	509	527	05 29	609	14 18	489	120	30
501	495	488	496	513	505	503	503	501	524	06 26	621	09 50	482	139	31
493	493	489	494	500	505	510	512	513	523				136		Mean
519	519	520	521	522	527	529	528	528							Mean†
430	436	421	423	443	450	462	476	477							Mean††

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

TABLE 13

Hourly values of Vertical Force, 1960

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

Month: July

2,000 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	296	303	296	288	280	273	256	245	264	274	279	287	288	287	281
2	294	298	298	293	285	279	267	262	257	257	260	268	278	283	280
3	295	298	298	295	308	303	301	290	283	278	279	287	287	286	283
4	293	298	299	292	279	266	245	251	245	255	260	269	280	285	279
5	296	299	299	293	292	289	284	277	266	257	269	267	277	279	279
6	295	295	289	283	279	271	267	266	262	262	259	260	278	280	279
7†	292	292	286	283	279	272	273	268	257	255	266	272	279	281	281
8†	292	292	286	278	274	279	285	289	291	291	296	291	290	289	282
9†	292	295	291	288	290	270	266	253	254	265	278	280	289	284	279
10	291	292	290	290	290	282	279	279	278	277	273	273	277	278	279
11	289	301	304	294	284	267	254	246	266	278	292	292	292	289	282
12	292	296	290	279	276	271	265	262	267	266	267	278	282	282	280
13	292	301	302	302	300	284	266	264	258	260	266	269	277	279	281
14††	289	296	296	289	289	278	265	276	281	266	265	269	273	278	279
15††	300	301	293	291	282	265	264	254	255	252	253	265	253	254	265
16††	289	277	285	265	264	259	247	245	248	249	254	269	276	281	285
17	293	297	290	289	287	276	275	275	271	276	287	288	288	286	282
18	299	290	288	287	287	282	276	270	275	274	272	278	277	277	276
19††	298	300	298	299	294	293	276	256	259	251	242	244	276	288	283
20	293	295	288	287	287	280	287	288	289	293	294	288	287	288	282
21	288	288	280	276	266	253	265	270	275	265	270	276	278	278	280
22	290	292	284	272	259	252	248	253	264	280	284	277	276	278	278
23	288	294	287	280	278	275	264	262	259	259	265	278	281	278	278
24	288	293	295	294	294	294	294	295	295	295	293	287	278	276	276
25†	288	290	283	273	266	253	253	265	272	276	271	277	285	285	281
26	289	289	284	289	287	277	269	264	253	248	254	260	269	276	277
27†	287	293	299	294	291	285	284	279	275	269	275	277	278	282	281
28	289	291	290	277	271	267	266	269	265	263	269	272	275	278	281
29	294	293	283	275	273	272	275	276	267	260	255	259	269	275	276
30	289	295	285	289	273	269	260	258	254	253	255	254	259	276	278
31††	289	287	295	299	300	289	282	272	264	259	264	263	269	275	277
Mean	292	294	291	287	283	275	270	267	267	267	270	273	278	280	279
Mean†	290	292	289	283	280	272	272	271	270	271	277	279	284	284	281
Mean††	293	292	293	289	286	277	267	261	261	255	256	262	269	275	278

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record, day omitted for means.

TABLE 13

Hourly values of Vertical Force, 1960

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

Month . July

2,000 γ Plus tabular quantities

Hours G.M.T										Maximum		Minimum		Date			
15	16	17	18	19	20	21	22	23	Mean	Time	Mag.	Time	Mag.		Range		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ			
280	280	284	291	290	285	287	291	292	282	00	36	306	07	07	244	62	1
283	287	291	291	291	291	291	291	292	282	03	15	301	07	35	255	46	2
284	287	289	289	290	290	289	291	291	290	03	50	309	08	30	277	32	3
281	287	274	291	292	291	291	291	292	279	02	45	303	06	16	242	61	4
281	284	289	290	291	291	287	286	291	284	01	30	302	09	08	256	46	5
281	285	286	287	291	290	290	289	290	280	00	35	296	10	35	255	41	6
283	285	287	289	289	287	287	290	291	280	00	01	292	09	00	255	37	7†
282	285	288	289	289	289	289	290	291	287	09	45	297	04	27	273	24	8†
280	284	285	289	290	289	289	289	289	282	00	35	297	07	25	246	51	9†
280	284	290	290	291	291	288	286	286	284	00	34	294	10	00	272	22	10
284	284	288	289	289	289	289	290	290	284	01	20	306	06	41	242	64	11
284	286	291	292	292	292	291	291	291	282	00	50	297	06	25	256	41	12
283	288	285	290	290	290	289	289	289	283	03	22	308	08	10	257	51	13
288	283	288	281	289	293	300	300	302	284	21	34	319	09	24	263	56	14††
271	277	288	281	279	288	305	293	289	276	21	12	315	09	35	248	67	15††
288	288	287	289	293	290	290	291	291	275	00	02	302	06	05	242	60	16††
287	288	290	288	288	288	289	289	289	286	00	45	299	08	25	268	31	17
282	287	288	289	289	289	293	292	294	284	00	30	300	07	07	264	36	18
283	286	289	288	292	292	287	288	288	281	00	50	301	11	15	240	61	19††
282	287	288	288	289	283	283	288	290	288	22	30	304	05	00	280	24	20
280	283	283	287	287	288	288	288	288	278	00	45	289	04	46	247	42	21
280	281	283	287	286	286	287	286	288	277	00	37	297	05	35	247	50	22
278	281	284	287	288	287	287	288	287	279	00	55	299	08	45	256	43	23
278	280	284	288	283	287	288	284	288	288	02	25	299	13	00	275	24	24
284	283	283	284	284	285	287	287	288	278	01	00	290	05	00	253	37	25†
279	284	285	282	283	287	285	284	285	276	03	20	291	08	30	247	44	26
281	282	283	288	288	288	287	289	288	284	01	35	300	09	00	269	31	27†
284	285	285	289	288	285	288	290	290	279	01	35	294	08	35	261	33	28
277	271	270	272	283	287	293	296	289	277	22	12	301	10	22	253	48	29
278	278	281	283	287	285	289	289	289	275	00	28	301	08	35	252	49	30
277	282	278	288	289	288	287	289	288	281	00	10	301	08	32	257	44	31††
281	284	285	287	289	288	289	290	290	281							44	Mean
282	284	285	288	288	288	288	289	289								Mean†	
281	283	286	285	288	290	294	292	292								Mean††	

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

TABLE 14

Hourly values of Vertical Force, 1960

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

Month : August

2,000 γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	288	288	287	291	289	289	283	267	255	252	256	253	270	277	284
2	284	288	289	282	278	272	267	259	252	248	252	260	266	272	274
3	284	286	282	283	281	273	269	269	273	273	277	283	280	279	
4†	281	285	279	280	269	258	254	254	254	249	255	265	275	279	279
5†	287	289	283	285	286	280	274	269	267	269	269	273	275	276	278
6	286	288	284	285	285	270	259	261	260	257	263	274	285	284	279
7	286	287	280	275	269	262	261	263	262	261	262	263	269	276	277
8	287	292	287	287	281	264	255	256	249	261	262	250	268	274	274
9	293	295	288	286	284	275	271	275	288	293	293	283	283	288	283
10	296	299	301	300	296	283	264	254	250	248	259	264	274	280	274
11	290	295	294	288	286	294	286	276	272	270	265	262	270	275	280
12	287	299	305	314	308	295	286	282	284	288	288	281	270	275	277
13	290	292	286	275	271	271	270	262	252	251	254	262	269	275	278
14	289	294	283	274	270	259	245	253	262	266	264	265	272	275	276
15	288	288	283	282	276	269	264	264	263	259	263	263	269	275	276
16††	283	288	286	284	283	277	272	273	276	276	277	271	267	272	277
17††	299	301	283	267	287	253	282	275	247	259	277	281	262	290	287
18	299	303	285	271	267	265	259	259	270	265	260	271	275	273	277
19	295	295	289	285	283	282	272	272	282	275	269	271	273	277	277
20	295	297	289	281	272	259	242	247	263	277	277	282	279	277	275
21††	299	299	291	272	260	259	267	263	254	243	259	267	271	275	276
22	291	293	289	294	288	282	279	275	275	263	260	265	272	273	275
23	285	289	282	272	271	260	252	253	259	265	272	273	273	275	276
24†	287	294	287	272	264	257	248	242	247	251	257	263	270	272	276
25†	287	295	290	276	271	263	261	257	263	271	278	284	283	278	279
26†	288	295	296	294	282	272	261	250	255	265	272	277	278	277	274
27	289	300	300	296	283	266	253	253	261	265	272	272	277	279	284
28	290	292	292	294	297	289	283	272	271	273	277	280	280	273	272
29††	292	309	303	290	277	228	228	272	278	285	284	276	273	276	276
30††	288	298	290	274	261	262	260	271	268	278	286	285	291	283	280
31	289	295	289	289	292	288	276	272	272	268	278	278	274	276	276
Mean	289	294	289	284	280	270	265	264	264	265	269	271	275	277	278
Mean†	286	292	287	281	274	266	260	254	257	261	266	272	276	276	278
Mean††	292	299	291	277	274	256	262	271	265	268	277	276	277	279	279

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record ; day omitted for means.

TABLE 14

Hourly values of Vertical Force, 1960

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

Month - August

2,000 γ plus tabular quantities

Hours G.M.T									Maximum		Minimum		Range	Date	
15	16	17	18	19	20	21	22	23	Mean						
γ	γ	γ	γ	γ	γ	γ	γ	γ	Time	Mag.	Time	Mag.			
279	282	283	284	283	285	282	284	286	278	03 18	293	09 00	249	44	1
277	282	283	279	282	284	284	286	284	274	01 40	290	08 35	247	43	2
279	284	283	281	283	284	285	283	283	279	00 44	289	05 33	268	21	3
279	280	281	283	285	284	284	284	284	273	00 40	286	09 30	248	38	4†
280	281	284	284	284	286	285	285	286	280	00 42	291	07 35	264	27	5†
279	281	281	284	286	286	286	287	286	274	00 55	290	08 57	256	34	6
281	282	286	287	288	288	287	287	286	276	16 50	297	06 00	261	36	7
277	275	273	275	281	282	287	293	288	274	00 54	293	08 00	247	46	8
287	287	288	288	287	292	293	294	294	287	00 45	298	05 25	265	33	9
276	280	284	278	282	287	288	290	289	279	01 15	304	08 30	246	58	10
278	282	288	289	289	290	290	288	288	283	01 00	298	11 15	259	39	11
284	286	292	293	294	293	292	288	292	290	03 20	322	11 50	268	54	12
282	282	286	287	290	290	289	287	288	277	00 45	294	08 35	250	44	13
282	288	287	284	283	284	286	283	286	275	01 00	294	05 40	240	54	14
276	278	282	282	283	284	288	287	283	276	00 24	294	09 00	259	35	15
261	249	265	271	272	278	284	290	293	276	23 25	295	16 00	248	47	16††
287	277	277	277	275	276	287	306	305	281	22 18	319	07 50	243	76	17††
278	283	284	288	288	289	289	293	293	278	00 31	308	07 00	257	51	18
279	273	290	279	278	273	273	289	294	280	22 25	305	10 20	266	39	19
283	284	284	283	283	284	285	294	293	279	00 50	301	06 28	241	60	20
273	273	282	283	287	283	283	285	290	275	00 15	301	08 45	242	59	21††
275	279	279	282	287	285	284	284	283	280	03 18	297	09 45	259	38	22
277	279	279	284	283	284	283	283	284	275	00 45	290	06 20	249	41	23
275	276	276	281	281	283	283	283	284	271	01 00	295	07 00	242	53	24†
282	282	283	284	285	287	289	287	288	279	00 52	297	07 00	255	42	25†
280	280	284	285	286	286	284	288	288	279	02 15	297	07 00	249	48	26†
279	278	280	276	278	284	298	291	290	279	01 00	300	06 35	247	53	27
277	284	286	284	284	285	289	290	290	284	03 36	298	07 30	267	31	28
284	284	283	278	279	278	276	279	285	278	01 00	314	05 35	212	102	29††
284	290	291	291	290	290	291	291	289	283	00 43	300	06 00	259	41	30††
284	284	288	291	288	288	288	290	288	283	01 00	296	08 45	266	30	31
279	280	283	283	284	285	286	288	288	279				47	Mean	
279	280	282	283	284	285	285	285	286						Mean†	
278	276	280	281	282	281	285	291	292						Mean††	

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE 15

Hourly values of Vertical Force, 1960

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

Month : September

2,000 γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1†	291	295	289	283	283	273	263	269	272	283	285	283	278	278	279
2	290	294	284	270	259	248	241	246	247	259	270	273	278	272	271
3††	284	294	306	279	259	249	239	243	271	279	282	280	279	271	270
4††	283	292	283	279	259	239	243	226	209	232	249	270	268	268	275
5††	293	301	269	252	254	248	244	250	227	225	267	292	291	281	281
6	293	279	278	284	270	255	231	232	249	256	266	270	270	272	273
7††	292	286	266	245	233	229	221	223	235	249	254	265	259	273	277
8	286	291	277	263	249	235	220	219	218	226	244	255	266	267	267
9	283	285	279	268	268	267	255	244	248	255	260	262	266	266	272
10	283	289	289	280	272	258	244	243	254	265	266	265	266	266	268
11	285	273	271	264	254	250	242	237	242	249	256	262	262	266	268
12	278	283	278	262	248	252	248	242	242	252	259	258	256	265	266
13	281	283	272	259	254	252	252	253	255	264	263	259	263	265	266
14	276	288	277	264	248	240	230	233	246	252	253	254	260	268	268
15†	276	284	280	271	262	245	232	232	240	247	256	260	264	265	264
16†	276	283	276	258	241	222	206	206	219	240	247	252	254	261	265
17	278	283	278	270	270	252	241	253	265	275	278	276	269	265	266
18	266	271	265	264	247	235	229	229	226	238	242	258	265	267	270
19†	278	283	277	267	262	253	252	261	261	261	259	255	255	265	265
20	277	280	279	278	274	269	256	254	263	268	268	267	267	271	272
21	280	280	262	248	244	233	229	225	233	244	250	253	257	262	267
22	281	283	273	256	249	243	233	243	257	267	272	271	267	268	271
23	278	279	277	266	257	244	241	232	232	248	255	257	266	268	269
24	283	283	279	292	293	269	259	258	252	258	264	268	274	273	272
25†	280	281	284	279	272	257	237	237	242	248	256	263	268	269	269
26	279	285	284	269	257	244	227	220	219	231	245	256	264	269	272
27	274	274	286	282	273	256	245	243	238	246	255	258	268	270	272
28	279	280	269	269	268	261	255	250	251	217	249	258	268	269	269
29	281	282	281	277	273	258	247	243	245	249	247	247	256	262	257
30††	274	280	274	275	279	270	262	262	264	269	262	256	253	255	258
Mean	281	281	275	269	261	250	241	240	244	253	259	263	266	268	269
Mean†	280	285	281	271	264	250	238	241	247	256	261	263	264	268	267
Mean††	285	291	279	270	257	247	242	241	241	251	263	273	267	270	272

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record, day omitted for means.

TABLE 15

Hourly values of Vertical Force, 1960

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

Month		2,000 γ plus tabular quantities															Date
September		Hours G M T									Maximum		Minimum				
15	16	17	18	19	20	21	22	23	Mean	Range							
										Time	Mag	Time	Mag				
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M	γ	H.	M.	γ	γ	
282	286	286	287	284	284	286	286	288	282	01	00	295	06	00	260	35	1†
273	282	288	286	285	289	291	284	295	274	22	55	297	06	07	238	59	2
282	288	289	289	294	293	289	292	290	279	01	30	307	06	50	226	81	3††
273	288	289	295	279	268	275	294	285	268	21	52	305	07	55	203	102	4††
280	282	290	297	296	266	291	291	298	275	00	30	315	08	38	212	103	5††
278	280	287	281	286	290	285	282	286	272	00	01	293	06	25	212	81	6
273	279	277	285	280	279	281	279	280	263	18	20	293	06	30	220	73	7††
267	273	273	275	281	279	280	280	280	261	00	42	295	08	15	214	81	8
274	271	276	277	277	278	279	283	280	270	00	46	287	07	14	241	46	9
271	268	266	272	272	276	282	284	284	270	01	20	290	06	20	242	48	10
270	272	271	270	272	278	278	282	277	266	00	35	289	06	52	235	54	11
266	267	272	278	278	278	278	280	280	265	01	00	287	07	15	243	44	12
271	273	276	276	276	271	276	276	273	267	00	35	284	05	50	251	33	13
270	274	275	276	276	276	271	275	276	264	00	45	289	06	52	229	60	14
266	268	269	273	271	271	271	271	272	263	00	48	287	06	30	228	59	15†
266	267	270	276	277	276	275	276	276	257	00	50	287	06	30	205	82	16†
267	271	272	276	277	272	277	277	261	270	00	55	284	05	30	239	45	17
267	270	272	273	277	277	277	277	277	260	23	58	279	05	58	224	55	18
267	270	272	273	276	277	276	276	274	267	00	42	285	05	35	248	37	19†
272	272	275	278	280	279	280	278	274	272	01	55	282	06	35	253	29	20
266	266	268	274	281	279	271	277	278	260	19	23	285	06	54	224	61	21
274	271	271	275	280	283	283	278	279	268	20	25	290	06	15	231	59	22
271	263	274	278	279	279	278	278	277	264	23	41	285	07	45	231	54	23
276	274	268	273	280	280	281	281	280	274	03	28	304	07	25	234	70	24
270	273	275	279	276	278	279	278	279	267	00	30	285	06	10	234	51	25†
272	274	271	273	274	274	272	273	273	262	01	15	287	07	15	218	69	26
272	272	271	275	275	272	274	276	278	267	01	55	288	07	50	237	51	27
268	270	271	271	274	275	276	280	280	267	01	00	281	09	35	245	36	28
268	276	276	276	275	276	280	283	274	266	21	45	287	07	15	250	37	29
264	270	273	275	280	281	281	275	275	269	20	26	288	11	30	250	38	30††
271	271	275	278	279	278	279	280	279	267						58		Mean
270	273	271	275	275	277	277	277	278									Mean†
276	279	284	288	286	281	283	286	286									Mean††

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record, day omitted for means.

TABLE 16

Hourly values of Vertical Force, 1960

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

Month . October

2,000 γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1††	277	280	267	250	233	234	239	239	245	240	253	249	261	268	263
2	275	275	269	271	269	268	256	249	249	247	247	257	265	269	270
3	281	279	273	269	268	259	257	256	257	253	246	253	267	270	271
4	273	279	275	271	268	251	243	235	239	246	253	258	261	264	263
5	281	271	270	270	260	246	245	248	257	264	270	268	264	269	268
6††	265	271	271	266	254	232	230	251	268	283	272	232	233	256	234
7††	288	274	282	251	235	234	234	246	259	259	258	274	281	272	270
8	282	277	269	277	276	270	262	259	259	266	270	276	274	276	276
9	275	282	269	257	251	245	235	238	253	259	256	256	263	269	269
10	280	281	274	265	259	250	250	246	245	247	251	257	260	266	268
11	275	283	282	276	270	253	233	224	240	251	256	262	263	264	269
12†	275	280	282	287	286	270	257	252	250	248	251	256	259	266	269
13†	275	274	276	281	277	260	245	251	257	253	254	258	262	269	271
14†	275	275	272	269	269	258	256	259	259	253	251	253	257	265	268
15	274	275	276	273	270	248	248	258	266	270	267	257	249	254	259
16	275	275	273	277	279	275	276	271	267	266	260	258	259	263	270
17	275	275	272	270	250	244	235	235	235	235	240	247	257	263	266
18	273	278	285	297	299	278	260	251	247	246	247	251	257	267	266
19	272	275	270	271	270	260	259	259	254	253	259	258	259	266	271
20	275	279	282	282	279	272	270	270	279	261	260	263	266	266	261
21	272	275	271	275	275	270	271	271	277	259	253	251	255	260	260
22†	272	276	273	273	252	247	244	240	239	246	251	259	263	270	271
23†	275	279	277	270	260	247	237	236	237	247	250	256	261	266	270
24	273	274	277	273	268	259	259	261	260	261	264	268	264	264	267
25††	279	279	279	284	273	259	248	235	236	240	241	249	252	260	268
26††	273	272	273	278	278	279	273	271	272	264	260	261	261	253	264
27	278	278	272	274	272	261	260	259	248	243	237	247	250	271	276
28	272	272	267	273	253	259	248	250	252	247	241	244	256	262	260
29	276	280	284	276	272	259	256	258	258	260	249	243	260	270	272
30	273	272	270	274	279	272	266	258	249	261	264	264	253	264	272
31	272	276	272	271	253	260	260	256	255	258	260	260	264	272	272
Mean	275	276	274	272	268	257	253	250	254	254	255	256	260	266	267
Mean†	274	277	274	275	269	256	248	248	248	249	251	256	260	267	268
Mean††	275	275	274	266	256	248	245	253	256	257	257	253	258	262	260

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

TABLE 16

Hourly values of Vertical Force, 1960

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

Month: October

2,000 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	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H.M	γ	H. M.	γ	γ			
270	275	275	280	283	281	283	281	275	263	21	16	301	05	30	232	69	1††
268	268	280	282	281	281	280	277	281	268	18	10	288	07	30	246	42	2
273	270	276	276	276	275	274	273	273	268	00	38	280	10	10	244	36	3
259	253	250	276	279	262	274	274	281	262	22	05	283	07	00	235	48	4
266	270	276	289	278	280	278	276	282	264	22	28	293	05	40	240	53	5
228	245	246	287	287	271	271	270	298	259	23	25	319	11	30	204	115	6††
282	270	282	29†	281	282	283	283	281	249	17	30	305	05	35	224	81	7††
271	270	272	274	281	277	275	275	271	272	19	15	287	08	00	259	28	8
277	274	274	273	282	284	280	280	282	266	19	15	287	06	30	232	55	9
269	270	271	271	271	271	270	275	275	264	00	52	282	08	00	245	37	10
270	271	272	274	274	274	276	275	275	265	01	25	286	06	11	223	63	11
270	270	270	276	274	275	271	277	280	269	03	10	290	08	40	247	43	12†
271	270	271	274	275	275	275	277	277	268	03	20	286	06	13	226	60	13†
270	270	271	274	275	274	274	275	275	267	00	34	277	09	45	251	26	14†
271	271	270	267	270	282	275	279	276	267	19	25	283	05	45	247	36	15
272	275	277	277	275	275	273	272	273	271	03	25	283	10	55	257	26	16
270	271	271	272	272	272	271	272	273	261	00	43	278	05	46	233	45	17
267	272	271	266	275	270	282	273	272	265	03	40	306	09	00	246	60	18
271	271	271	271	271	272	273	279	273	267	21	25	282	09	00	253	29	19
265	269	273	282	282	282	276	277	276	273	03	22	283	10	07	259	24	20
261	261	261	261	262	262	267	268	262	265	21	20	283	11	00	251	32	21
271	270	271	276	273	276	275	273	276	264	01	45	278	08	00	239	39	22†
270	271	272	274	273	273	278	274	273	264	01	00	280	07	00	236	44	23†
271	248	231	262	261	278	283	278	278	266	20	15	284	16	45	222	62	24
261	278	261	255	271	280	296	278	279	264	20	30	308	06	50	229	79	25††
283	271	273	280	283	284	279	278	277	272	14	55	292	09	50	252	40	26††
270	264	272	276	273	272	284	272	276	266	20	55	290	10	12	234	56	27
261	270	280	288	275	276	279	279	277	264	18	00	296	10	05	240	56	28
272	273	272	283	272	272	272	272	272	265	01	40	285	10	50	240	45	29
268	274	279	272	272	279	272	272	272	269	19	50	282	07	55	248	34	30
264	271	274	276	270	271	272	272	272	267	00	32	279	08	12	252	27	31
268	269	270	275	275	275	276	275	276	266						48		Mean
270	270	271	272	274	275	275	275	278									Mean†
265	268	267	279	281	280	282	278	282									Mean††

†Five International quiet days.

††Five International disturbed days

△ Loss of record; day omitted for means.

TABLE 17

Hourly values of Vertical Force, 1960

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

Month : November

2,000 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	273	274	271	266	260	248	252	254	254	255	255	252	259	264	267
2	274	276	272	270	271	260	268	273	261	250	255	259	261	270	273
3	273	275	273	278	273	271	268	267	260	255	250	255	262	270	273
4††	271	264	261	267	271	258	248	247	248	243	248	256	255	271	267
5	273	273	272	267	262	261	259	259	252	250	254	260	260	266	270
6	277	277	273	271	266	260	249	243	243	240	248	255	259	261	271
7†	272	272	272	277	273	265	256	260	250	248	252	258	261	268	272
8†	274	276	278	281	284	273	273	266	255	253	249	255	260	263	266
9†	273	272	267	277	274	273	273	272	269	262	261	253	261	265	267
10	273	273	265	268	273	271	268	265	266	260	253	253	253	261	272
11	274	274	274	281	284	277	280	268	256	250	244	236	249	262	262
12	273	273	272	268	268	266	273	266	253	253	257	260	261	272	283
13††	255	278	275	260	293	266	267	247	248	243	235	277	285	255	262
14††	278	277	283	287	293	286	280	269	256	255	261	260	260	267	267
15††	269	271	263	249	252	238	238	248	243	249	250	259	260	272	272
16††	265	251	245	259	277	267	273	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
17	Δ	Δ	Δ	Δ	269	261	261	259	261	260	260	253	259	261	261
18†	265	267	262	261	255	255	253	259	256	260	261	260	260	263	271
19†	273	272	266	260	257	269	250	255	261	257	256	261	260	261	260
20	273	263	259	262	262	253	238	238	238	248	260	261	262	263	262
21	272	273	273	267	257	243	238	249	244	254	260	257	249	261	256
22	268	268	273	281	285	281	281	281	273	274	270	254	254	262	268
23	274	273	268	265	263	263	262	257	262	258	257	252	258	263	263
24	270	270	273	271	270	263	252	240	241	246	251	253	252	263	262
25	271	264	264	266	265	269	278	283	275	263	271	263	264	266	264
26	275	270	270	266	262	253	262	270	275	265	263	264	263	266	269
27	275	276	271	265	265	265	261	264	257	260	263	257	257	264	260
28	267	266	265	267	266	261	266	267	266	265	266	262	261	266	267
29	271	274	266	265	265	255	253	253	254	255	258	255	256	264	265
30	267	267	266	272	278	279	274	267	267	267	261	259	261	266	266
Mean	272	272	270	269	270	265	263	260	257	255	258	257	259	265	267
Mean†	271	272	269	271	269	267	261	262	258	256	257	255	260	264	264
Mean††	268	272	270	266	277	262	258	253	249	248	248	263	265	266	267

† Five international quiet days.

†† Five international disturbed days.

 Δ Loss of record ; day omitted for means.

TABLE 17

Hourly values of Vertical Force, 1960

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

Month : November

2,000 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					
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M	γ	H.	M.	γ	γ		
265	271	274	278	274	274	273	273	276	265	18	15	279	05	00	248	31	1	
273	272	277	279	279	279	278	277	273	270	20	00	283	09	00	249	34	2	
273	273	272	277	274	273	273	261	272	269	03	10	279	10	00	249	30	3	
283	272	272	273	284	278	273	273	273	265	15	02	288	09	35	240	48	4††	
272	272	272	273	274	274	274	273	276	267	00	35	277	09	15	248	29	5	
272	272	272	272	273	272	277	272	272	264	00	35	279	09	00	238	41	6	
271	272	272	273	273	272	272	272	273	267	03	20	280	09	00	248	32	7†	
268	267	272	273	273	273	273	273	272	269	03	20	285	10	00	249	36	8†	
272	272	272	273	273	273	273	273	273	270	03	15	279	11	00	254	25	9†	
272	273	273	274	274	273	273	274	274	268	18	05	278	11	00	253	25	10	
263	265	272	273	273	278	273	273	271	267	03	52	291	11	00	235	56	11	
274	273	273	248	233	233	239	262	262	260	263	21	58	309	20	00	232	77	12
262	272	285	298	309	269	273	275	284	270	18	38	340	10	00	221	119	13††	
273	268	272	278	271	273	273	273	268	272	03	38	297	09	46	249	48	14††	
262	260	261	261	274	273	272	287	284	261	22	10	321	05	35	237	84	15††	
Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	16††	
269	271	273	272	269	271	269	267	269	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	17	
271	272	272	273	272	272	272	273	273	265	18	00	273	06	00	254	19	18†	
260	261	263	268	269	272	272	273	268	264	00	01	273	05	00	248	25	19†	
265	266	268	268	271	271	273	268	269	261	00	01	273	06	45	237	36	20	
262	257	250	245	274	275	275	274	274	260	19	08	286	07	14	243	43	21	
262	263	263	266	274	274	273	274	274	271	03	20	286	11	17	251	35	22	
263	264	265	270	270	270	269	271	271	265	00	01	275	06	40	251	24	23	
262	263	264	264	264	267	264	262	268	261	00	01	275	07	00	240	35	24	
263	264	277	274	269	274	274	268	271	270	07	25	288	11	30	256	32	25	
269	265	275	275	275	266	266	272	270	269	08	00	275	05	00	252	23	26	
261	263	266	271	267	265	271	275	265	265	00	45	279	08	07	253	26	27	
266	271	273	270	271	267	268	268	267	267	13	36	277	05	00	258	19	28	
266	266	268	272	267	268	267	266	266	263	00	40	277	06	00	253	24	29	
265	267	267	269	278	274	268	262	256	269	19	16	287	11	00	260	27	30	
268	268	270	271	272	271	271	271	271	266						39	Mean		
269	267	270	272	272	272	272	273	272								Mean†		
270	268	272	278	284	273	273	277	277								Mean††		

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

TABLE 18

Hourly values of Vertical Force 1960

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

Month : December

2,000 γ Plus the 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††	262	266	263	256	277	284	293	293	291	279	268	255	256	267	251
2††	266	266	266	274	280	284	291	293	287	278	266	267	260	268	267
3	269	269	270	275	279	280	269	263	258	255	254	255	257	267	268
4†	274	270	269	273	275	269	269	275	274	267	255	246	255	256	262
5	273	272	264	268	268	268	272	270	270	268	266	266	254	260	256
6	279	279	272	271	270	264	269	281	281	276	271	258	245	252	257
7	276	274	270	277	275	270	270	269	269	268	261	259	257	257	259
8	268	267	268	268	258	257	268	281	262	258	252	257	257	262	268
9	275	270	280	271	275	264	258	268	258	256	257	257	257	262	261
10	270	275	273	276	277	264	252	247	246	246	251	253	254	260	264
11†	270	271	270	274	271	259	247	238	235	236	245	248	256	258	259
12	268	270	269	270	271	269	263	258	251	247	247	251	257	264	264
13	270	270	268	268	270	264	258	264	264	258	257	258	258	264	270
14†	271	271	271	272	265	258	248	251	246	246	252	258	259	260	258
15††	265	266	275	287	283	271	264	252	235	229	229	234	239	250	257
16††	270	270	270	282	284	293	293	293	286	265	256	259	263	270	271
17†	269	270	274	265	263	264	263	263	263	258	256	259	264	257	268
18	263	267	261	254	255	246	245	244	257	245	240	249	257	257	258
19	269	263	259	263	258	259	263	269	271	269	257	256	258	268	259
20	259	259	257	257	250	246	252	261	274	274	269	257	258	261	257
21	259	264	257	249	233	232	238	245	257	258	263	257	257	257	257
22	258	264	261	253	245	233	233	251	264	264	251	257	257	258	259
23	263	268	259	247	233	223	232	240	253	267	267	259	256	256	257
24	262	263	258	244	227	214	220	233	237	234	244	251	251	246	249
25†	261	261	258	251	240	221	220	227	235	245	246	251	251	255	256
26	257	268	264	253	245	227	221	223	238	251	263	257	247	256	259
27††	265	268	258	253	251	244	223	203	215	224	234	239	232	234	235
28	263	264	257	259	256	245	238	240	240	238	245	246	257	257	252
29	259	265	258	256	245	233	232	222	222	233	239	252	258	257	257
30	263	268	263	257	240	221	221	221	223	234	250	250	251	251	250
31	258	263	262	267	263	244	229	228	222	234	255	258	247	256	256
Mean	266	268	265	264	261	254	252	254	254	253	254	254	254	258	258
Mean†	269	267	269	267	263	254	249	254	251	250	249	247	255	258	255
Mean††	266	269	265	269	275	275	273	267	263	255	251	251	252	258	256

†Five international quiet days.

††Five international disturbed days

ΔLoss of record, day omitted for means

TABLE 18

Hourly values of Vertical Force 1960
(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

Month · December

2,000 γ Plus the tabular quantities

Hours G.M.T										Maximum		Minimum		Range	Date		
15	16	17	18	19	20	21	22	23	Mean		Time	Mag	Time			Mag	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ			
249	268	262	266	284	278	279	277	278	271	06	20	321	15	15	248	73	1††
268	263	268	278	280	279	280	279	273	274	07	00	296	12	30	258	38	2††
268	269	272	270	269	270	270	270	273	268	04	15	280	10	00	251	29	3
263	268	268	268	268	272	273	272	273	267	06	22	279	11	10	245	34	4†
267	267	268	273	269	276	276	279	279	269	19	52	280	12	00	251	29	5
253	256	257	258	261	270	281	281	280	268	07	00	281	12	25	239	42	6
259	263	269	280	277	271	281	268	269	269	21	00	287	12	30	256	31	7
268	268	269	269	269	269	269	270	273	266	06	47	282	10	15	246	36	8
268	267	261	268	270	270	269	269	269	266	01	35	281	09	00	256	25	9
264	269	269	269	271	269	276	270	270	264	03	30	282	08	30	246	36	10
264	264	269	270	270	269	270	264	263	260	03	28	276	08	30	234	42	11†
264	259	258	271	270	266	269	271	270	263	18	20	286	09	30	246	40	12
270	269	269	270	270	270	270	270	271	266	23	00	271	10	00	257	14	13
258	258	259	264	265	265	268	269	269	261	03	10	274	09	00	242	32	14†
256	251	247	258	269	263	270	272	270	256	21	32	292	08	58	228	64	15††
271	271	271	275	274	272	270	271	269	274	04	35	284	09	45	252	32	16††
265	263	268	269	269	269	269	265	268	265	01	00	269	09	00	256	13	17†
255	247	252	269	273	270	269	268	268	257	18	05	280	09	35	238	42	18
261	263	268	264	264	262	268	268	263	264	07	45	275	11	00	252	23	19
263	263	262	258	263	270	258	259	262	260	08	23	280	04	40	246	34	20
246	256	255	263	267	270	269	263	258	255	20	00	270	04	45	228	42	21
257	257	257	257	262	263	263	263	263	256	01	25	268	05	00	233	35	22
251	258	261	262	262	261	264	268	264	255	01	00	269	04	52	222	47	23
256	257	257	256	257	259	258	259	261	247	01	00	264	05	00	214	50	24
256	257	257	257	257	258	258	258	257	250	20	02	268	05	15	216	52	25†
259	257	257	257	257	263	262	259	263	254	01	20	270	06	00	220	50	26
247	257	243	238	245	257	257	265	263	244	01	00	270	07	00	202	68	27††
252	251	250	259	268	264	259	258	258	253	19	15	269	06	47	234	35	28
252	256	252	258	259	262	262	263	263	251	01	00	268	07	30	221	47	29
252	258	262	267	256	258	257	258	257	249	01	00	269	05	00	221	48	30
257	257	256	259	268	259	258	259	258	253	03	07	270	08	00	221	49	31
260	261	261	265	267	267	268	267	267	260						39		Mean
261	259	263	266	266	263	264	266	264									Mean†
259	263	258	263	270	270	271	273	271									Mean††

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

TABLE 19
PRINCIPAL MAGNETIC STORMS

Observatory	Greenwich Date 1960	Storm Time		Sudden commencements			C-figure Degree of Ac- tivity (iv)	Maximal activity on K-scale 0 to 9			Ranges					
		G M T of Begin- ning	G.M.T of ending (i)	Type (ii)	Amplitude(m)			Green- wich Dav	Green- wich 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		
		hr	mt	d.	hr		γ	γ	γ				γ	γ		
Astrophysical Observatory	July, 14	04	48	16	19	S C	1	40	13	ms	15	...	...	9	272	72
	August, 16	14	06	18	09	S C	<1	30	12	ms	17	.	...	8	285	69
	August, 19	16	14	21	10	S C	<1	27	17	m	20			6	217	63
	August, 29	00	19	30	11	S C	1	29	22	ms	30			7	320	98
	September, 2	11	57	03	14	S C	<1	15	6	m	3	..	.	9	219	75
	September, 4	02	28	06	00	S C	<1	30	13	s	5	..		11	138	109
	October, 6	02	36	07	23	S C	1	46	15	s	6	..	..	9	458	121
	October, 24	14	52	26	16	S C	<1	33	13	ms	25	..	..	6	316	72
	November, 12	13	45	14	11	S.C.	2	48	24	s	13	..	..	9	187	127
	November, 15	13	02	16	18	S C	<1	27	11	ms	16		..	5	305	92
	November, 21	06	31	22	09	S C	1	37	13	ms	21	.	..	1	264	39
	November, 30	19	08	1st Dec	23	S C	1	31	20	ms	1st Dec		.	5	289	68
	December, 7	18	02	08	16	S C	<1	28	14	m	7			1	170	36

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 range is between 251 γ and 400 γ).
(s)=for severe (when range is above 400 γ)

401

IONOSPHERIC DATA

401

Characteristic : fo F2

Unit : Mc

Month : July 1960

TABLE 1

Ionospheric Data

75.0°E Mean Time

Latitude . 10° 2N

Longitude . 77° 5E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	F	F	F	F	F	7 1 _F	9 4	10 6	10 7	10 4	10 0
2	6 5	F	F	u4 6 _F	3 9	4 1	7 0	9 9	10 9	11 0	10 7	9 8
3	9 8	9 8	9 1	8 1	7 2	6 3	7 8	9 8	11 4	11 4	11 6	10 7
4	9 5	8 6	7 6	7 1	7 0	6 9	8 6	10 1	10 8	11 2	10 9	9 5
5	8 7	7 5	7 2	7 1	7 0	5 7	7 4	9 7	11 7	12 1	11 9	11 8
6	u9 5 _s	9 0	8 2	u7 2 _s	6 7	6 4	7 8	10 2	11 2	11 6	11 3	10 5
7	u9 4	FS	7 3 _F	6 8	6 5	4 9	7 3	9 5	10 5	9 8	9 5	9 5
8	F	F	F	u7 1 _{FS}	6 2	4 8	7 1	9 0	9 8	9 2	8 9	9 3
9	F	F	F	F	6 8	5 5	7 3	9 5	10 2	9 7	8 8	8 7
10	u7 1 _s	5 7	4 7	4 3	4 5	4 5	7 2	10 1	10 8	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	8 5	6 6	5 9	5 6	5 0	4 6	6 8	J9 7 _s	10 0	10 3	9 4	9 2
15	J7 2 _s	5 7	3 7	F	F	F	6 0	9 0	10 3	10 6	10 2	9 8
16	9 2	8 5	7 8	7 0	4 7	4 0	7 4	9 5	11 3	11 2	J12 0 _R	10 4
17	u8 3 _F	8 0	7 6	u7 2 _s	7 5	5 1	7 4	10 5	12 0	12 5	12 4	11 8
18	F	F	F	F	F	4 1	7 2	9 6	11 0	12 0	11 4	10 6
19	8 4	7 6	7 0	6 8	6 7	6 2	8 0	10 1	11 4	12 2	12 2	11 2
20	u9 4 _s	8 0	u6 4 _{SH}	4 6	3 7	3 5	6 4	9 6	u10 6 _s	10 8	9 8	9 6
21	6 6	u5 2 _s	4 4	3 8	3 3	2 6	6 2	9 8	10 6	10 9	10 6	9 8
22	7 4	F	F	F	F	u5 5 _F	6 8	9 4	10 3	9 4	8 6	8 6
23	F	F	F	F	F	F	u6 8 _F	9 7	10 8	11 0	9 8	9 2
24	F	F	u6 8 _F	6 2 _F	6 1	4 9 _F	6 8	10 0	10 9	11 1	10 9	10 0
25	8 5 _F	7 2	5 1	u4 7 _F	F	4 6	7 2	9 6	10 6	10 8	9 8	9 4
26	6 6	6 0	4 7	3 8	3 6	2 9	5 9	8 5	9 8	10 4	9 8	9 4
27	6 8	6 1	6 4	6 2	4 0	2 9	6 5	8 5	10 0	10 2	10 2	10 1
28	9 5	7 7	7 1	6 4	6 7 _F	5 1	6 3	8 3	9 8	10 3	C	8 8
29	10 8	u7 0 _s	4 9	3 9	3 3	2 7	6 1	8 8	10 4	10 5	9 9	10 0
30	8 8	6 7	4 8	F	F	F	u7 4 _F	9 3	10 4	10 4	9 4	9 4 _{II}
31	9 0	7 8	6 3	5 7	5 9	4 6	6 3	9 5	11 0	11 2	11 3 _{II}	10 5 _{II}
Count	22	19	21	21	21	24	28	28	28	27	26	27
Median	8 6	7 5	6 4	6 2	6 1	4 7	7 1	9 6	10 6	10 8	10 3	9 8
Mean	8 4	7 3	6 3	5 9	5 5	4 7	7 0	9 5	10 7	10 8	10 4	9 9

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

Characteristic : fo F2
 Unit : Mc
 Month : July 1960

TABLE 1
 Ionospheric Data
 75°E Mean Time

Latitude : 10°2N
 Longitude : 77°5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
9.7	9.6	10.5	11.5	11.8	v12.0s	12.7	12.7	11.1	F	F	F	1
C	C	C	10.6	10.7	11.1	11.9	v12.5s	12.6	10.9	10.0	9.9	2
10.5	10.4	10.6	11.6	12.3	12.1	12.3	12.7	11.7	10.7	10.3	11.2	3
9.8	9.5	9.8	10.1	10.6	11.3	v11.8s	11.7	11.4	10.6	10.5	9.9	4
10.9	10.3	10.1	10.8	10.9	11.6	11.4	10.4	10.4	v9.7s	9.6	9.9	5
10.5	10.7	10.8	10.6	10.7	10.9	v11.1s	10.9	v10.1sF	v9.5F	9.1	10.0	6
9.6	9.3	9.7	9.9	9.6	9.7	10.8	10.3	F	F	F	F	7
10.3	10.6	11.8	12.7	12.5	12.8	12.6	v11.7s	11.3	9.8	8.7	8.4	8
9.1	9.3	9.7	10.2	11.1	11.8	12.1	11.6	9.6	8.7	7.8	7.8	9
C	C	10.8	10.8	10.8	11.2	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	C	9.9	10.3	10.5	v9.8s	9.1	8.9	9.4	13
9.8	10.7	10.6	10.5	10.6	11.1	j12.0s	12.3	10.5	9.6	9.6	8.6	14
9.2	8.6	9.1	10.0	10.4	10.6	10.2	v9.3s	F	9.4	11.5	v11.6s	15
9.7	9.8	9.8	10.4	10.5	10.4	v9.8s	v9.4s	v9.2F	9.0	F	v7.8F	16
11.0	10.5	10.6	11.0	11.4	11.4	11.5	10.4	v9.0F	8.7	v9.5F	F	17
10.8	11.0	11.6	12.0	12.4	13.5	12.8	11.0	10.6	10.2	9.6	9.4	18
10.4	9.8	10.0	10.2	10.5	11.8	12.5	11.2	10.5	9.6	7.8	8.8	19
9.6	10.5	10.7	11.5	12.4	v13.1R	13.6	11.8	11.5	v9.8s	7.8	v7.2s	20
10.4	10.6	11.0	10.7	11.0	v11.7s	11.5	11.4	10.4	v9.8s	9.6	8.2	21
9.4	9.7	11.0	11.4	11.8	11.8	12.1	11.8	F	F	F	F	22
9.8	9.9	10.0	10.3	10.8	11.4	11.8	11.8	10.4F	F	F	F	23
10.2	10.6	11.1	11.2	11.7	12.2	12.0II	11.2	F	F	F	F	24
9.4	9.9	10.5	10.6	11.1	12.2	12.8	12.4	10.3	8.5	8.0	v7.3F	25
9.2	8.8	8.6	9.0	9.5	9.6	10.3	10.7	10.4	9.4	9.0	8.3	26
9.7	9.4	9.8	10.4	11.1	11.8	11.0	10.4	j9.8F	F	10.6	10.3	27
8.9	9.2	9.8	9.7	9.5	10.4	11.4	11.2	10.6	10.8	9.1	10.1	28
10.4	10.9	10.7	10.4	9.9	9.5	10.4	10.6	10.6	F	v9.7F	10.4	29
9.8	9.9	10.0	10.1	10.0	10.5	10.8	11.5	11.3	11.0	9.7	10.2	30
9.3	9.5	9.5	10.0	10.8	11.2	11.2	10.8	10.3	9.9	9.8	v10.5s	31
26	26	27	28	28	29	28	28	24	21	22	22	Count
9.8	9.9	10.5	10.6	10.8	11.4	11.6	11.2	10.4	9.7	9.6	9.6	Median
9.9	10.0	10.3	10.6	10.9	11.3	11.6	11.2	10.6	9.7	9.4	9.3	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : foF2
Unit : Mc
Month : July 1960

TABLE 1—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°02'N
Longitude : 77°5'E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	F	F	F	F	F	8.4	10.5	10.7	10.6	10.2	9.9
2	6.1	F	F	4.2	3.7	5.5	8.7	10.6	11.1	11.0	10.2	C
3	9.7	9.4	8.7	7.5	6.3	6.6	9.2	10.5	11.5	11.6	11.2	10.6
4	8.9	8.0	7.5	7.1	7.0	7.5	9.4	10.6	11.5	11.3	10.2	9.4
5	8.5	7.5	7.1	7.0	6.4	6.0	8.8	10.8	11.9	12.1	12.1	11.3
6	u9.3s	8.5	u7.6s	7.0	6.3	6.7	9.1	10.5	11.0	11.5	10.8	10.4
7	u8.8F	7.7F	6.7	6.5	6.1	5.6	8.8	10.3	10.2	9.6	9.5	9.6
8	F	F	F	6.7	5.5	5.5	8.9	9.6	9.5	9.1	9.2	9.8
9	u6.7F	F	F	u6.7F	6.5	5.7	8.5	10.1	10.3	9.0	8.7	8.8
10	6.3	5.2	4.5	4.4	4.6	5.5	8.5	10.7	C	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	6.9	6.1	5.7	5.2	4.8	5.4	8.3	9.7	10.6	9.8	9.2	9.5
15	7.0	4.2	3.2F	F	E	4.0	7.6	10.3	10.6	10.6	10.0	9.5
16	8.2	8.5	7.8	5.7	4.2	5.3	8.6	10.6	12.0	12.0	11.0	9.8
17	u7.9s	8.2	u7.2s	u7.6s	6.0	5.7	9.3	11.0	12.8	12.4	12.0	11.4
18	F	F	F	F	u6.1s	4.7	8.5	10.9	12.0	11.6	10.7	10.7
19	8.0	7.0	6.8	6.8	6.5	6.6	9.0	10.8	12.0	12.0	12.0	10.8
20	8.5	u7.2s	5.2	4.2	3.8	4.1	8.4	u10.2s	11.0	10.6	9.4	9.8
21	5.8	4.8	4.2	u3.2R	2.9	4.3	8.3	10.3	10.8	10.8	9.7	10.0
22	F	F	F	F	u6.0F	5.4	8.4	10.2	9.9	8.9	8.5	8.9
23	F	F	F	F	F	F	u7.5F	10.4	10.9	10.4	9.3	9.3
24	F	F	u6.5F	6.0	5.5	5.1	8.4	10.2	11.1	11.1	10.0H	10.0
25	7.9	6.0F	4.8	F	F	5.1	8.3	10.3	10.8	10.2	9.6	9.4
26	6.3	u5.3s	4.1	3.8	3.1	4.0	7.4	9.1	10.1	10.2	9.5	9.2
27	6.4	6.1	6.4	5.5	3.3	4.2	7.6	9.6	9.9	10.2	10.4	9.6
28	8.5	7.1	6.7	F	6.4	4.4	7.8	9.5	10.0	9.4	9.1	9.2
29	8.7	5.9	4.3	3.5	3.9	4.0	7.8	9.6	10.4	10.1	10.1	9.9
30	8.1	5.4	F	F	F	F	8.4	9.6	10.4	10.0	9.5	9.5
31	8.7	6.7	5.9	6.1	5.5	4.6	7.8	10.1	10.8	11.3	11.4H	9.7
Count	22	20	21	20	24	25	28	28	27	27	27	26
Median	8.0	6.8	6.4	6.0	5.5	5.4	8.4	10.3	10.8	10.6	10.1	9.8
Mean	7.8	6.7	6.0	5.7	5.2	5.3	8.4	10.2	10.9	10.6	10.2	9.8

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : foF2
 Unit Mc
 Month : July 1960

TABLE 1—contd.
 Ionospheric Data
 75°0'E Mean Time

Latitude : 10°.2N
 Longitude : 77.5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
9.5	10.1	10.7	11.7	11.8s	12.6	12.8	12.2	10.6F	9.7	F	6.9	1
C	C	C	10.8	10.8	11.7	12.7	12.6	11.8	10.4	10.0	9.9	2
10.3	10.5	10.9	12.2	12.1	11.9s	12.8	12.8	11.0	10.5	10.8	10.5	3
9.6	9.5	9.7	10.4	10.8	11.5	12.0	11.7	10.6	10.6	10.2	9.5	4
10.6	10.4	10.6	10.9	11.5	11.5	11.0	10.1	10.1	9.9	9.9	C	5
10.6	10.8	10.7	10.3	10.9	10.8	11.3	10.3s	10.5	9.2	9.6	9.7F	6
9.4	9.4	9.8	9.8	9.4	10.5	10.6s	9.8	F	F	F	F	7
10.4	11.0	12.5	12.5	12.6	12.7	12.3	11.4	10.7	9.3	8.5	7.8F	8
9.3	9.4	10.0	10.7	11.5	12.0	11.8	10.8	9.2	8.0	7.9	7.7	9
C	C	10.8	10.8	10.7	C	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	9.4	10.3	10.5	10.0s	9.2	9.0	9.2	9.6	13
10.2	10.6	10.6	10.4	10.5	11.7s	12.4	11.4	9.8	9.4	9.5	7.9	14
9.0	9.0	9.6	10.1	10.6	10.5	9.6s	F	9.3F	S	11.7s	10.8	15
9.7	9.7s	10.2	10.4	10.6	9.8s	9.6s	9.2s	9.0Fs	F	F	8.0F	16
10.6	10.6	10.8	11.4	11.2	11.6s	11.2	9.4Fs	8.8F	9.2F	9.6F	F	17
10.7	11.6	11.8	12.0	13.0	13.3	11.8	10.8	10.4F	10.0	9.6	9.0	18
10.0	9.9	10.2	10.3	10.8	12.6	11.7	10.4	10.6	8.7	8.3	9.6s	19
9.8	10.6	11.2	12.3	12.6	13.7	13.0	11.2	11.2	8.3	7.5s	7.2s	20
10.6	10.7	10.9	10.9	11.4	11.8s	11.6s	10.2	10.1	10.2	9.0	7.6	21
C	10.1	11.4	11.7	11.5	12.2	11.6	10.8F	F	F	8.8F	F	22
9.8	10.4	10.2	10.7	10.9	11.7	11.8	11.1	9.6F	F	F	F	23
10.4	10.9	11.1	11.4	11.9	11.6H	11.7	F	F	F	F	9.0F	24
9.8	10.7	10.2	11.0	11.5	12.6	13.7	11.2	9.4F	8.2	7.7	6.9	25
8.9	8.9	8.6	9.1	9.6	9.8	10.6	10.6	9.9	9.6F	8.8	7.6	26
9.6	9.5	10.2	10.6	11.4	11.2	11.0	10.1	F	9.8	10.5	10.3	27
9.0	9.6	9.8	9.5	9.8	10.8	11.4	10.6	11.2	9.7	10.0	10.3	28
10.6	10.8	10.5	10.2	9.6	10.1	10.6	10.8	10.1	F	10.1	9.9	29
9.7	10.0	9.9	10.1	10.0	10.8	10.8	11.6	11.4	10.1	9.7	9.7	30
8.9	9.2	9.6	10.4	11.0	11.1	11.2	10.4	9.6	9.6	9.9	S	31
25	26	27	28	29	28	28	26	24	21	23	22	Count
9.8	10.2	10.5	10.7	10.9	11.6	11.6	10.8	10.1	9.6	9.6	9.2	Median
9.9	10.2	10.5	10.8	11.0	11.5	11.5	10.8	10.2	9.5	9.4	8.9	Mean

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

Characteristic : foF1
 Unit : Mc
 Month : July 1960

TABLE 2
 Ionospheric Data
 75°E Mean Time

Latitude : 10·2° N
 Longitude : 77·5°

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	LH	LH	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	u5 2L
10								L	L	C	C	C
11							C	C	C	C	C	C
12							C	C	C	C	C	C
13							C	C	C	C	C	C
14							L	L	L	L	L	L
15								L	L	LH	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	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								1
Median							
Mean						

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

Characteristic : foF1
 Unit : Mc
 Month : July 1960

TABLE 2
 Ionospheric Data
 75°E Mean Time

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

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

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

Characteristic foF₁
Unit : Mc
Month : July 1960

TABLE 2—*contd.*
Ionospheric Data
75°E Mean Time

Latitude : 10°2'N
Longitude : 77°5'

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	C
3								L	L	L	L	L
4								L	L	L	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	L	L
9								L	L	L	L	L
10								L	C	C	C	C
11								C	C	C	C	C
12								C	C	C	C	C
13								C	C	C	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	L	L	L
21								L	L	L	L	05 4L
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	5.4	L
28							L	L	L	L	L	L
29							L	L	L	L	L	L
30							L	L	L	L	L	L
31							L	L	L	L	L	L
Count							1	1
Median						
Mean						

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

Characteristic : foF1
 Unit : Mc
 Month : July 1960

TABLE 2—*contd.*
 Ionospheric Data
 75°E Mean Time

Latitude . 10.2°N
 Longitude . 77.5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	5.6	A	A	A								1
O	C	C	A	A								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 _H	L _H	L	L	L								7
L _H	L	L	L	L								8
L	L	L	A	L								9
C	C	L	L _H	L								10
C	C	C	C	C								11
C	C	C	C	C								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	L	L	A	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
C	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L	L							27
L	5.8	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
.	2		..	.	.							Count
.	.		..	.	..							Median
.	.	..	..	.	.							Mean

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

Characteristic : fo E
Unit : Mc
Month : July 1960

TABLE 3—*contd.*
Ionospheric Data
75°E Mean Time

Latitude : 10 2°N
Longitude : 77·5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2·7	A	A	A	A	A
2							2·6	A	A	A	A	C
3							2·7	3·1	A	A	A	A
4							2·7 _H	A	A	A	A	A
5							2·8	A	A	A	A	A
6							υ2·5 _R	A	A	A	A	A
7							A	A	A	A	A	A
8							A	A	A	A	A	A
9							υ2·5 _A	A	A	A	A	A
10							..	A	C	C	C	C
11							C	C	C	C	C	C
12							C	C	C	C	C	C
13							C	C	C	C	C	C
14							υ2·4 _R	A	A	A	A	A
15							..	A	A	A	A	A
16							..	υ3 1 _R	A	A	A	A
17							υ2·4 _R	A	A	A	A	A
18							A	A	A	A	A	A
19							A	A	A	A	B	A
20							υ2·4 _R	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
24							2·1	3·0	A	A	A	A
25							..	A	A	A	A	A
26							A	A	A	A	A	A
27							R	A	A	A	A	A
28							2·4	A	A	A	A	A
29							2·5	A	A	A	A	A
30							2·5	3·1	A	A	A	A
31							R	A	A	A	A	A
Count							14	4	..	..	.	.
Median							2·5	.	.	..	..	..
Mean							2·5	.	..	..	..	..

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

Characteristic · fo E
Unit : Mc
Month · July 1960

TABLE 3—*contd.*
Ionospheric Data
75°E Mean Time

Latitude : 10·2°N
Longitude : 77·5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A	A							1
C	C	C	A	A	A							2
A	A	A	A	A	A							3
A	A	A	A	A	3·3							4
A	A	A	A	A	2·5							5
A	A	A	A	A	A							6
A	A	A	A	A	A							7
A	A	u3 5R	u3 6H	A	A							8
A	A	A	A	A	u2·7R							9
C	C	A	A	A	A							10
C	C	C	C	C	C							11
C	C	C	C	A	A							12
A	A	A	A	A	A							13
A	A	A	u3 8R	A	A							14
A	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	B	3 4	2 2							20
A	A	A	A	A	A							21
C	A	A	A	A	A							22
A	A	A	A	A	A							23
A	A	3·9	3 5	3·1	A							24
A	A	A	A	A	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	A	A	A	A]	A							30
A	A	A	A	A	A							31
..	.	2	3	3	3							Count
..	.		..	..	..							Median
			.	..	..							Mean

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

Characteristic : foEs
Unit : Mc
Month : July 1960

TABLE 4
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								8.0	10.0	10.4	12.0	12.0
2				5.8				9.0	11.4	12.0	12.0	12.4
3								G	7.4	16.0	18.0	11.8
4				3.2			G	G	9.8	11.0	12.4	12.6
5								8.0	G	G	12.6	12.2
6							G	G	9.5	11.8	11.8	11.6
7		u5.4s		4.2			6.5	9.8	11.4	11.6	12.2	12.6
8	10.4	9.2					3.2	9.4	10.2	11.0	12.3	13.2
9	3.1							9.8	10.6	11.8	12.4	12.6
10		6.4	3.5	7.4				8.4	10.8	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	5.7	3.2	3.5			u4.4s		6.6	9.8	10.8	12.0	10.8
15							3.0	8.0	10.6	11.0	11.6	12.0
16								G	11.0	12.0	12.0	12.0
17			3.2		4.6		G	6.6	4.0	9.0	11.6	12.0
18		2.2		7.0	3.2			9.0	11.2	11.0	12.2	12.0
19	2.2	2.4		2.0			G	7.0	9.8	12.0	13.0	13.0
20		4.1						6.6	8.8	11.0	12.6	13.0
21				4.4				10.0	10.0	11.0	13.0	12.0
22	6.0	4.4	3.6	5.0	6.8		G	8.8	10.6	12.0	12.6	12.4
23	6.8	6.4	3.2	6.0				8.8	10.8	11.0	14.6	12.0
24			4.2	6.8			G	G	G	11.2	13.2	11.8
25	9.0	2.8	6.8	7.6				8.4	11.7	12.0	12.8	13.0
26								12.4	10.8	11.6	13.2	12.6
27							G	7.1	10.0	10.3	11.2	12.4
28	11.4	4.8	2.0	5.0			G	10.0	9.4	12.0	C	12.6
29	2.6							7.8	11.4	9.8	12.4	12.6
30	2.8							7.0	9.2	11.8	11.8	12.6
31		5.0	4.7	2.7				3.3	8.0	10.8	11.6	12.3
Count	10	12	9	13	3	1	11	28	28	27	26	27
Median	5.8	4.6	3.5	5.0	..	.	G	8.0	10.0	11.0	12.4	12.4
Mean	6.0	4.7	3.8	5.2	.	.	.	8.2	9.9	11.4	12.6	12.3

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

Characteristic : foEs
Unit : Mc
Month : July 1960

TABLE 4
Ionospheric Data
75°E Mean Time

Latitude : 10°2'N
Longitude : 77°5'E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.0	12.0	13.0	19.0	23.0	23.0	13.0	10.0	5.0	u6.8s	9.0	7.0	1
C	C	C	15.0	14.0	18.0	9.0	7.6	8.0	8.8	9.4	..	2
12.8	12.6	13.0	12.0	10.2	6.2	11.0	7.0	5.2	7.8	3.0	..	3
12.4	12.0	12.0	10.6	8.4	11.0	3.8			5.0	8.0	..	4
12.0	10.0	11.8	11.0	8.0	G	7.0	7.0			..	..	5
12.1	12.2	12.2	11.0	9.8	G	u6.6s	3.1	u6.3s	4.1	4.5	6.2	6
12.3	12.6	11.4	11.6	10.5	7.9	8.9	3.4	1.8		2.7	8.6	7
11.8	10.8	8.8	7.4	8.4	6.8	4.3	4.5	3.8	4.8	3.6	..	8
12.4	12.1	12.5	17.0	17.7	G	4.5	u4.4s		4.0	7.6	..	9
C	C	12.3	10.6	9.6	7.8	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	C	u15.4s	12.2	8.8	u9.0s	u8.8s	6.6	u8.0s	13
9.2	10.0	11.0	11.6	8.0	13.0	S	10.6	u4.8s	8.6	8.9	..	14
11.8	11.6	12.0	9.6	7.0	11.4	u11.0s	4.4	u4.0s	4.3	4.7	..	15
12.0	11.6	u11.6s	20.0	20.0	12.0	u8.4s	4.2	u8.6s	8.0	3.0	3.6	16
12.6	12.6	13.0	12.4	9.6	7.0	6.0	4.8	4.4	u6.0s	4.6	10.0	17
12.0	11.0	12.0	11.0	9.2	8.0			3.0	2.4	1.8		18
12.2	12.0	11.8	10.3	14.0	17.0	13.0	4.0	4.6	4.0	4.0		19
12.4	12.0	11.0	G	G	3.5		5.0	3.6	3.2	2.7	u7.0s	20
12.0	12.0	12.4	12.0	11.0	7.0	4.2	6.0	5.0	5.6	11.4	4.0	21
12.6	12.8	10.8	11.0	8.6	9.0					5.6	7.8	22
12.0	13.2	12.6	12.2	12.0	15.4	12.6	11.2	7.0	3.4	3.8		23
12.2	11.0	11.0	6.2	5.2	G	5.4			4.2	2.6		24
12.6	15.0	12.6	12.0	15.6	16.8	11.6	u7.4s	6.8	5.4		4.0	25
13.1	12.4	12.2	15.6	12.0	14.8	12.0	12.8	8.0	u6.6s	..		26
12.6	12.0	12.2	11.4	9.4	11.5	8.2	6.8	4.8	7.0	6.6	9.0	27
12.7	12.8	12.6	10.8	8.4	9.4	11.8	7.8	u9.6s	u6.8s	3.2	..	28
12.2	12.6	12.6	10.8	8.8	9.4	9.0	4.0	3.6	4.2	4.6	6.8	29
12.0	12.4	11.8	10.2	8.7	7.7	4.6		3.5	4.4		..	30
12.5	12.6	11.4	11.6	7.7	10.8	12.8	6.4	7.0	2.6	..	..	31
26	26	27	28	28	29	24	23	22	25	23	13	Count
12.2	12.0	12.0	11.2	9.5	9.4	9.0	6.4	5.0	5.0	4.5	7.0	Median
12.2	12.1	11.9	12.0	10.9	11.2	8.8	6.6	5.6	5.5	5.3	6.7	Mean

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

Characteristic : fo Es
Unit : Mc
Month : July 1960

TABLE 4--(contd.)
Ionospheric Data
75°E Mean time

Latitude 10°2'N
Longitude : 77°5'E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.8						G	9.0	10.0	11.4	12.4	12.4
2							G	12.0	11.0	11.4	12.8	C
3							G	G	9.2	18.0	12.6	12.0
4							G	8.6	9.0	11.8	12.6	12.4
5							G	9.0	8.0	8.0	11.0	10.0
6							G	7.8	11.0	11.3	12.2	11.7
7	8.6						10.2	10.8	10.8	12.4	12.3	12.6
8	11.3	4.2				2.3	8.3	10.9	11.6	11.8	12.4	11.6
9	3.6						6.8	10.9	11.4	12.1	12.4	12.4
10		4.6	3.4				..	10.8	C	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	5.8	6.8			4.0	3.2	G	8.2	10.8	11.8	12.0	11.5
15							6.8	8.8	11.8	12.0	11.7	12.2
16							..	8.5	10.0	12.4	12.0	12.2
17				4.4			G	3.8	9.0	11.0	11.0	11.4
18	2.2		4.6	4.1			3.5	9.8	11.0	13.0	12.0	12.0
19	2.0						6.0	8.2	11.0	11.0	12.0	12.2
20							G	8.4	10.6	12.0	12.4	12.6
21				5.0			7.0	9.4	11.0	12.8	12.6	12.0
22	4.6	4.0	4.4	7.8			7.6	10.2	11.8	12.4	12.4	13.0
23	6.6	4.2	3.4	7.2			9.0	9.8	11.4	14.8	16.2	12.8
24			5.6	1.7			3.2	4.1	10.0	12.8	12.8	12.0
25	5.7	7.0	5.4	7.6		6.4	.	10.8	12.0	12.8	12.4	12.6
26							8.2	12.6	11.2	12.0	12.6	12.8
27							G	8.6	10.0	11.4	11.8	12.2
28	8.2	4.7	5.8	4.6			G	8.4	11.2	12.4	11.8	13.2
29							7.6	9.6	10.6	12.4	12.6	12.4
30							G	G	9.6	11.6	11.8	12.2
31	4.4	6.7	5.0	5.4			G	6.8	7.8	11.6	11.8	11.7
Count	12	8	8	9	1	3	25	28	27	27	27	26
Median	5.2	4.6	4.8	5.0			G	8.9	10.8	12.0	12.4	12.2
Mean	5.4	5.3	4.7	5.3			7.0	9.1	10.5	12.2	12.3	12.2

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

Characteristic · fo Es
Unit : Mc
Month : July 1960

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
12·0	14·8	19·0	22·0	23·0	13·4	13·0	10·6	υ7·0s	υ7·0s	6·0	4·0	1
C	C	C	17·0	16·0	13·0	9·0	4·0	9·0	10·0	5·0		2
11·8	12·0	11·4	11·6	12·0	9·8	9·4	3·2	7·0	7·8	3·0		3
12·6	12·0	12·0	10·0	G	10·0	4·4			3·4	5·0		4
12·0	12·0	11·0	10·8	9·8	G	8·0						5
12·4	12·4	10·9	10·4	7·8	4·6	υ4·7s	2·4	υ4·6s	4·3	5·3		6
12·4	12·7	11·1	10·8	11·0	9·4	7·8		2·0		4·8	6·6	7
10·8	9·6	G	8·4	7·6	7·6	4·6	4·0	υ4·6s	3·9	3·4	3·7	8
12·6	12·6	12·0	19·8	6·6	G	3·6				3·9		9
C	C	12·4	10·8	8·3	C	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	10·4	12·2	υ12·0s	υ9·4s	υ9·1s	υ8·8s	S	6·7	13
9·6	9·0	10·2	11·2	7·8	υ12·0s	υ6·0s	3·2	6·8	8·8	10·8		14
12·4	12·0	11·2	8·0	9·0	13·0	8·7	3·8	3·8	3·0	4·7	υ6·8s	15
12·2	11·6	18·0	22·0	16·0	υ10·0s	υ8·0s	υ6·2s	υ9·1s	S	3·0	2·0	16
12·2	19·0	12·4	12·2	8·0	6·0	3·4	3·8	7·0	υ6·0s	9·0	4·0	17
10·2	12·0	11·4	10·2	8·2			2·0	2·2	4·2	3·0		18
12·3	12·0	11·2	13·4	17·0	10·0	8·0	4·0	4·0	2·2	4·6	8·0	19
12·0	12·0	10·0	B	3·8	3·0		4·4	4·2		3·6		20
12·4	13·0	12·0	11·0	8·0	7·0	9·0	2·2	7·0	9·0	2·2	5·2	21
C	12·2	9·4	10·6	8·6	7·9				2·6	7·0	7·6	22
15·6	12·0	12·2	14·4	15·0	13·8	10·0	7·4	4·2	4·6	υ5·2s	υ5·0s	23
12·0	10·4	5·0	G	5·8	4·0	2·2			2·5		7·4	24
15·0	12·8	12·2	13·2	16·6	12·0	11·8	υ4·8s	υ5·0s	υ5·6s			25
12·6	11·8	12·0	11·2	9·8	14·0	υ12·0s	9·6	8·0	υ6·0s	7·0	2·8	26
12·2	11·8	11·6	10·7	8·6	7·6	8·6	4·5	8·8	4·2	6·7	6·6	27
12·6	12·2	10·8	10·4	8·0	9·2	13·6	11·6	7·6	4·7			28
12·0	12·8	11·6	11·0	10·4	9·0	7·0	3·8	4·0	2·0	3·2		29
12·4	11·6	11·6	10·4	6·7	5·6	4·2	5·9	5·8	2·4	5·8	2·2	30
12·2	11·4	10·6	8·8	8·4	10·6	10·8	9·0	5·8	2·2	1·8		31
25	26	27	27	29	27	25	22	23	23	23	15	Count
12·2	12·0	11·4	10·8	8·6	9·4	8·0	4·2	5·8	4·3	4·8	5·2	Median
12·3	12·2	11·7	12·3	10·3	9·4	8·0	5·4	5·9	5·0	5·0	5·2	Mean

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

Characteristic : fb Es
 Unit : Mc
 Month : July 1960

TABLE 5
 Ionospheric Data
 75°E Mean time

Latitude : 10°2'N
 Longitude : 77°5'E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								2.9	3.4	3.8	4.0	4.1
2				2.0				2.9	3.9	3.8	4.0	4.2
3								G	3.4	4.2	5.0	4.2
4				2.1			G	G	3.4	3.8	4.0	4.2
5								3.1	G	G	4.1	4.2
6							G	G	3.6	3.8	4.0	4.2
7		1.7		1.6			2.1	3.0	3.4	3.8	4.0	4.3
8	1.9	1.4					2.1	3.0	3.4	3.7	3.9	4.8
9								2.9	3.4	3.8	4.0	4.2
10		2.2	2.1	2.4				2.9	3.5	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	2.7	2.5	2.0			1.7		2.8	3.4	3.6	4.0	4.1
15							2.4	3.3	3.3	3.8	4.0	4.3
16								G	3.4	3.8	4.0	4.1
17			1.5				G	2.8	3.4	3.6	4.0	4.0
18				1.7	1.9			2.9	3.4	3.9	4.0	4.2
19	1.8	1.6		1.7			G	3.0	3.6	4.0	5.0	5.0
20								2.8	3.2	3.6	4.0	4.0
21				1.6				3.0	3.4	3.8	4.0	4.2
22	3.0	1.9	1.6	1.7	2.1		G	2.9	3.4	3.8	4.0	4.0
23	1.9		1.4	1.5				2.9	3.2	3.8	4.0	4.2
24				1.9			G	G	G	3.7	4.0	4.4
25	2.8	2.3	2.1					2.9	3.4	3.7	4.0	4.0
26								3.6	3.4	3.8	4.0	4.2
27							G	2.9	3.3	3.6	3.8	4.0
28	3.4						G		3.3	3.7	C	4.0
29								2.9	3.5	3.6	4.0	4.2
30	2.2							2.8	3.3	3.6	3.9	4.0
31			2.2	1.8				2.8	..	3.6	3.9	4.0
Count	8	7	7	11	2	1	11	27	27	27	26	27
Median	2.4	1.9	2.0	1.7			G	2.9	3.4	3.8	4.0	4.2
Mean	2.5	1.9	1.8	1.8	..			3.0	3.4	3.8	4.1	4.2

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : FbEs
 Unit : Mc
 Month July 1960

TABLE 5
 Ionospheric Data
 75°E Mean time

Latitude 10°2'N
 Longitude 77°5'E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.7	4.2	4.8	7.4	9.0	10.5	3.2	3.2	2.0	2.2	2.3	2.3	1
C	C	C	5.0	5.8	6.0	2.8	2.8	3.0	2.7	2.8		2
4.3	4.1	4.2	4.0	6.0	3.4	4.8	2.4	2.0	2.9	2.1		3
4.3	4.2	4.0	3.9	3.5	3.9	2.8			2.0			4
4.2	4.2	4.0	3.7	3.3	G	2.1	1.8	..	.	.		5
4.3	4.2	4.0	3.7	3.4	.	2.2	1.6	2.2	1.9	1.8	2.1	6
4.2	4.2	4.0	3.7	3.8	3.1	3.2	1.6			.	3.4	7
4.2	4.3	4.0	3.6	3.3	2.9	2.8	1.3	1.2	2.4	2.0		8
4.2	4.2	4.0	4.3	5.2	G	2.5			1.7	2.4		9
C	C	3.8	3.6	3.5	2.7	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	C	6.4	6.2	5.0	4.6	3.2	3.0	2.8	13
4.1	4.0	3.9	4.3	.	5.1	2.8	3.6	2.6	3.0	2.8		14
4.3	4.2	4.0	3.7	3.3	3.5	3.8	2.6	.	2.6	2.4	2.7	15
4.2	4.0	3.9	5.0	5.2	4.4	2.7	1.8	u3 Os	3.0	2.0	1.8	16
4.0	4.2	4.4	4.2	3.4	2.9	2.0	1.7	2.0	2.8	1.8	2.2	17
4.2	4.2	4.4	3.8	3.5	2.8	.	.	1.6	1.6	1.6		18
4.2	4.0	3.9	3.8	4.0	5.8	2.8	2.0	3.0	2.0	1.9		19
4.1	4.0	4.0	G	G	3.0	..		1.9	.	1.6	2.8	20
4.0	4.0	4.0	3.7	3.4	3.0	2.2	2.0	2.1	2.6	2.1	1.6	21
4.2	4.1	4.0	3.6	3.5	3.2	.	.	..	..	1.5	2.0	22
4.2	4.2	4.0	4.2	4.0	5.8	5.0	3.5	2.4	2.0	1.9		23
4.1	4.0	4.2	4.5	4.6	G	2.2			1.8	1.9		24
4.2	4.1	4.1	3.6	5.2	8.1	2.6	2.2	2.6	2.5		2.4	25
4.2	4.0	4.0	3.8	4.6	4.2	3.0	2.4	2.2	2.8			26
4.0	4.0	3.9	3.6	3.4	3.4	2.0	1.8	1.6	1.7	2.4		27
4.1	4.2	3.8	3.6	3.2	2.8	5.0	4.0	2.8	2.9	2.2		28
4.2	4.0	4.0	3.8	3.2	3.4	3.3	1.4	2.0	..	1.7		29
4.0	4.0	4.0	3.4	3.2	3.0	2.2	.	2.4	3.0	.		30
4.0	4.0	3.9	3.6	..	6.4	5.7	4.0	3.0	.	..		31
26	26	27	28	26	28	25	21	21	22	21	11	Count
4.2	4.1	4.0	3.8	3.5	3.4	2.8	2.2	2.2	2.6	2.0	2.3	Median
4.2	4.1	4.0	4.0	4.2	4.4	3.2	2.5	2.4	2.4	2.1	2.4	Mean

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

Characteristic : fbEs
Unit : Mc.
Month : July 1960

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							G	3.2	3.6	3.9	4.1	4.2
2							G	3.8	3.6	3.9	4.0	C
3							G	G	3.6	5.0	4.2	4.3
4							G	3.2	3.6	4.0	4.0	4.2
5							G	3.2	3.7	4.0	4.4	4.2
6							G	3.3	3.8	3.9	4.2	4.2
7							3.1	3.3	3.6	3.9	4.1	4.2
8	1.7	1.3					2.7	3.2	3.6	3.9	4.0	4.3
9							2.6	3.2	3.6	3.9	4.1	4.1
10		2.2	2.2					3.2	C	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	2.2	2.3	C	C	1.4	1.9	G	3.1	3.6	3.8	4.1	4.0
15							3.0	3.1	3.5	3.9	4.2	4.4
16							..	3.2	3.6	3.8	4.0	4.2
17				1.6			G	3.2	3.4	3.8	4.0	4.0
18	1.6		1.5	1.7			2.6	3.1	3.6	3.8	4.0	4.3
19							2.6	3.2	3.8		4.6	4.2
20							G	3.0	3.4	3.8	4.0	4.0
21							2.4	3.1	3.6	4.0	4.0	4.2
22	2.0	1.7	1.6				2.5	3.2	3.5	3.9	4.0	4.2
23	1.8	1.6	1.5	1.7				3.2	3.6	3.8	4.1	4.2
24			2.0	1.6			2.7	3.1	3.6	3.8	4.2	4.2
25	2.2	2.6	2.0				.	3.3	3.6	3.8	4.1	4.1
26							2.5	4.2	3.8	3.8	4.1	4.1
27							G	3.1	3.4	3.7	3.9	4.0
28	2.4	1.7		1.6			G	3.0	3.6	3.8	4.0	4.0
29							2.6	3.0	3.5	4.2	4.0	4.2
30							G	G	3.6	3.8	4.0	4.0
31	2.6	3.0	1.9	1.7			G	3.2	3.4	3.7	3.9	4.0
Count	8	8	7	6	1	1	24	28	27	26	27	26
Median	2.1	2.0	1.9	1.6	.	..	G	3.2	3.6	3.8	4.0	4.2
Mean	2.1	2.0	1.8	1.6	..		2.7	3.2	3.6	3.9	4.1	4.2

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

Characteristic · fbEs
Unit : Mc
Month · July 1960

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
4.4	4.9	6.8	9.0	7.5	8.4	5.0	3.0	3.0	3.0	2.3	2.2	1
C	C	C	5.3	7.0	5.0	3.0	2.4	3.3	2.7	2.5	.	2
4.3	4.2	4.0	4.2	5.0	6.2	8.0	1.6	2.6	2.6	1.9	..	3
4.2	4.2	4.0	3.7	G	3.8	3.2	.	.	.	1.8	.	4
4.2	4.0	3.9	3.6	3.1	G	2.6	.	.	..	..	..	5
4.2	4.1	4.1	3.6	3.2	2.5	1.8	1.6	2.3	1.8	1.9	.	6
4.1	4.1	3.9	3.5	3.5	3.0	2.5	.	.	.	.	1.6	7
4.1	4.0	G	3.4	3.4	2.5	2.9	1.4	1.9	1.9	1.6	.	8
4.2	4.1	4.2	8.0	3.2	G	2.0	.	.	.	..	.	9
C	C	3.7	3.6	3.2	C	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	3.6	6.0	u5 0s	5.2	3.6	2.8	2.8	2.9	2.5	13
4.2	4.0	3.8	3.6	3.4	u5 2s	1.9	2.1	2.8	4.0	.	.	14
4.1	4.0	4.0	3.5	3.1	5.0	3.6	1.9	..	2.1	.	.	15
4.0	4.0	5.0	5.4	5.4	3.4	u3 0s	u2.4s	u4 0s	2.2	1.9	1.7	16
4.0	4.8	4.1	4.0	3.8	2.8	1.6	1.6	2.6	2.2	2.6	1.6	17
4.4	4.0	4.1	3.6	3.0	.	.	1.4	1.5	2.0	1.8	.	18
4.1	4.0	3.8	4.6	6.5	2.6	2.6	1.8	2.0	1.8	.	3.2	19
4.0	4.0	4.3	B	3.3	2.4	..	3.5	2.4	..	..	.	20
4.2	4.0	3.8	3.6	3.1	2.5	2.6	1.5	2.8	3.8	1.5	1.8	21
C	4.0	4.0	3.6	3.2	2.6	..	..	..	1.6	1.6	1.7	22
4.2	4.2	4.0	4.0	4.0	5.0	3.4	2.8	2.0	2.0	2.0	1.9	23
4.1	4.0	4.0	G	4.1	2.6	1.8	.	.	1.5	..	2.4	24
4.0	4.2	3.9	3.6	6.2	3.9	6.0	2.0	2.7	2.3	..	..	25
4.1	4.0	3.9	3.6	3.4	6.2	4.0	2.4	2.2	2.5	2.9	2.8	26
4.0	4.0	3.8	3.4	3.6	2.5	2.1	1.7	2.6	2.0	3.0	2.5	27
4.1	4.0	3.7	3.4	3.1	2.8	6.4	5.0	2.8	2.5	..	..	28
4.2	4.0	3.9	3.6	3.2	3.2	2.3	2.0	1.4	..	..	..	29
4.1	3.9	3.9	3.5	3.0	2.6	2.2	1.8	2.8	..	..	..	30
4.0	4.0	3.8	3.4	3.2	5.6	5.2	3.6	2.9	..	..	..	31
25	26	27	27	29	27	24	22	21	19	17	12	Count
4.1	4.0	3.9	3.6	3.4	3.0	3.0	2.0	2.6	2.2	2.0	2.0	Median
4.1	4.1	4.0	4.2	4.0	3.9	3.4	2.4	2.5	2.3	2.2	2.2	Mean

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

Characteristic · fmin
Unit : Mc.
Month July 1960

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	1.2	1.6	1.5	1.6	1.4	1.6	2.3	1.7	2.0	2.6	2.5	2.8
2	2.1	2.1	2.0	1.6	1.7	1.6	2.3	1.8	2.2	2.5	2.5	2.7
3	2.1	1.9	1.8	1.8	1.6	1.4	2.2	1.8	2.1	2.5	3.1	2.2
4	1.8	2.0	1.7	1.5	1.5	1.4	2.2	1.6	1.8	2.3	2.5	2.8
5	1.6	2.2	1.7	1.5	1.7	1.5	2.2	1.8	2.3	3.8	2.9	3.1
6	1.4	1.8	1.9	1.6	1.4	1.7	1.9	2.1	2.1	2.4	2.7	2.7
7	1.6	1.4	1.3	1.2	1.4	1.3	1.5	1.8	2.1	2.3	2.3	2.8
8	1.3	1.2	1.2	1.4	1.3	1.4	1.7	1.7	2.0	2.6	2.6	2.8
9	1.4	1.2	1.2	1.3	1.4	1.4	2.3	1.6	2.1	2.3	2.5	2.7
10	2.4	1.2	1.4	1.8	1.9	1.7	2.3	2.2	2.2	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	1.7	1.7	1.3	2.0	1.3	1.1	2.2	1.7	2.0	2.2	2.4	2.7
15	1.9	1.8	1.5	1.9	2.2	1.8	1.9	1.8	2.3	2.3	2.4	3.2
16	2.2	2.4	2.5	2.7	2.6	2.3	2.4	2.2	2.4	2.5	2.5	2.7
17	1.4	1.3	1.1	1.5	1.4	1.4	1.7	1.5	2.1	2.4	2.4	2.4
18	1.4	1.4	1.5	1.1	1.1	1.4	2.2	1.8	2.2	2.6	2.4	2.6
19	E	1.5	1.9	1.5	1.5	1.5	1.6	1.6	2.0	2.6	4.6	2.7
20	2.0	1.9	1.7	1.6	1.4	1.5	2.0	1.7	2.0	2.0	2.4	2.8
21	2.2	2.2	1.4	1.4	1.9	1.8	2.3	1.8	2.2	2.6	2.8	2.8
22	1.2	1.2	1.7	1.6	2.1	1.6	1.9	1.5	1.7	2.6	2.6	2.4
23	1.4	1.5	1.3	1.5	1.8	1.6	2.1	2.0	2.2	2.4	2.5	2.8
24	2.1	1.5	1.8	1.5	1.6	1.5	1.2	1.7	2.2	2.4	2.5	3.2
25	1.8	1.8	1.7	1.5	2.1	2.0	2.5	2.1	2.3	2.5	2.7	2.6
26	2.1	2.2	1.6	1.5	1.3	1.7	2.0	1.8	2.0	2.7	2.9	2.9
27	2.8	2.6	1.9	2.2	1.7	1.3	1.6	1.7	1.7	2.2	2.2	2.6
28	1.8	1.4	1.2	1.3	1.2	1.4	1.4	1.5	1.7	2.2	C	2.6
29	1.4	1.3	1.2	1.3	1.7	1.3	2.0	1.9	2.0	2.5	2.6	2.9
30	1.5	1.7	1.4	1.6	2.6	2.1	2.6	1.9	2.2	2.4	2.6	2.7
31	2.2	2.2	1.7	1.4	1.4	1.8	2.0	1.7	2.2	2.4	2.5	2.6
Count	28	28	28	28	28	28	28	28	28	27	26	27
Median	1.8	1.7	1.6	1.5	1.6	1.5	2.0	1.8	2.1	2.4	2.5	2.7
Mean	1.8	1.7	1.5	1.6	1.6	1.6	2.0	1.8	2.1	2.5	2.6	2.7

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

Characteristic . fmin
Unit : Mc.
Month July 1960

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
3.0	3.0	2.8	2.6	2.1	2.1	1.8	1.1	1.2	1.4	1.7	1.4	1
C	C	C	2.3	2.0	1.7	1.4	1.2	1.2	1.1	1.4	2.2	2
3.0	3.0	2.7	2.5	2.2	2.2	1.8	1.4	1.3	1.4	1.4	1.6	3
2.9	3.0	2.8	2.7	2.6	2.4	1.8	1.4	1.7	1.3	1.4	1.8	4
3.0	3.0	2.8	2.5	2.2	2.0	1.8	1.3	1.5	1.4	2.3	2.1	5
2.8	2.8	2.6	2.5	1.9	2.1	1.4	1.1	1.1	1.1	1.2	1.4	6
2.7	2.6	2.5	2.2	1.9	1.5	1.2	1.0	1.2	1.5	1.3	1.2	7
3.0	2.7	2.7	2.4	2.3	1.8	1.4	1.0	1.2	1.1	1.2	1.4	8
2.8	3.1	2.8	2.8	2.1	2.2	2.1	1.3	1.6	1.4	1.4	1.9	9
C	C	2.5	2.7	2.6	2.0	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	C	1.8	1.4	1.2	1.3	1.4	1.0	2.0	13
2.8	2.6	2.3	2.4	4.2	2.6	1.9	1.5	1.3	1.5	1.7	1.5s	14
2.6	3.0	2.7	2.7	2.2	1.6	1.5	E	2.0	1.7	1.5	2.1	15
2.7	2.8	2.6	2.0	2.1	1.8	1.4	1.2s	1.0	E	1.1	1.3	16
2.6	2.7	2.6	2.5	1.9	1.6	1.2	1.1	E	1.0	E	1.2	17
2.4	2.4	2.7	2.6	2.4	2.1	2.0	1.5	1.4	1.2	E	1.5	18
2.5	2.4	2.2	2.2	2.0	1.7	1.5	1.1	E	1.3	1.6	2.0	19
2.8	2.7	2.4	2.4	3.0	2.2	2.0	1.3	1.4	1.3	1.5	2.0	20
2.8	2.8	2.4	2.6	2.1	1.5	1.4	E	1.2	1.0	1.1	1.0	21
2.6	2.9	2.6	2.5	2.4	2.2	2.1	1.6	1.2	1.4	1.4	1.3	22
3.0	3.0	2.8	2.6	2.0	1.8	1.4	1.0	1.0	1.0	1.7	1.7	23
3.2	3.0	2.6	3.1	2.4	2.1	1.5	1.3	1.6	1.5	1.4	1.7	24
2.7	2.5	2.4	2.3	1.8	1.7	1.5	1.2	1.2	1.3	2.1	1.9	25
2.9	2.8	2.8	2.5	2.0	1.9	2.0	1.2	1.3	1.5	1.9	1.8	26
2.8	2.8	2.5	2.4	2.0	1.8	1.1	1.0	1.1	1.2	1.4	2.2	27
2.8	2.6	2.2	2.3	1.9	1.9	1.3	1.3	1.4	1.4	1.4	1.6	28
3.2	3.0	2.8	2.6	2.2	1.9	1.4	1.4	1.0	1.5	1.4	1.9	29
3.0	2.7	2.5	2.2	1.9	1.7	1.7	1.8	1.5	1.5	2.4	1.1	30
2.7	2.4	2.6	2.5	2.2	1.7	1.6	1.5	1.5	1.2	2.4	2.6	31
26	26	27	28	28	29	28	28	28	28	28	28	Count
2.8	2.8	2.6	2.5	2.1	1.9	1.5	1.2	1.2	1.4	1.4	1.7	Median
2.8	2.8	2.6	2.5	2.2	1.9	1.6	1.3	1.3	1.3	1.6	1.7	Mean

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

Characteristic : fmin
Unit Mc.
Month : July 1960

TABLE 6—Contd
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude : 77.5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.5	1.7	2.0	1.5	1.8	1.8	1.6	2.0	2.2	2.5	3.0	3.2
2	2.0	2.0	1.5	1.7	1.7	1.9	1.9	2.0	2.4	2.5	2.6	C
3	2.2	1.9	2.0	1.6	1.5	1.8	2.2	2.0	2.2	2.5	1.9	3.0
4	2.0	2.1	1.8	1.7	1.4	1.6	1.7	1.9	2.0	2.3	3.0	3.0
5	2.2	1.8	1.7	1.6	1.5	2.0	2.0	1.9	2.3	2.4	2.9	3.0
6	1.5	1.7	2.1	1.6	1.5	1.6	2.1	1.9	2.3	2.5	2.6	3.0
7	1.5	1.3	1.3	1.9	1.3	1.7	1.6	2.2	2.1	2.1	2.5	2.7
8	1.4	1.2	1.2	1.4	1.4	1.6	1.6	1.8	2.3	2.6	2.7	2.8
9	1.3	1.2	1.2	1.6	1.3	1.5	1.6	1.9	2.2	2.3	2.6	2.6
10	2.0	1.2	1.4	1.9	1.8	1.9	2.8	2.3	C	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	1.4	1.0	1.8	1.5	1.1	1.5	1.7	1.9	2.2	2.3	2.8	2.7
15	1.3	1.8	1.8	2.1	E	2.2	1.9	2.1	2.4	2.3	2.8	2.8
16	2.3s	2.7	2.6	2.6	2.5	2.3	2.6	2.3	2.5	2.5	2.6	2.7
17	1.5	1.4	1.6	1.2	1.5	1.6	1.7	1.7	2.3	2.2	2.4	2.4
18	1.2	1.4	1.4	E	1.5	1.6	2.0	2.2	2.4	2.5	2.6	2.6
19	1.2	1.7	2.0	1.8	1.5	1.7	1.5	1.8	2.2	4.2	3.2	2.6
20	2.0	1.9	1.3	1.5	1.2	1.5	1.7	1.9	2.1	2.2	3.0	2.7
21	2.2	1.8	1.8	1.7	1.8	1.7	1.9	2.1	2.4	2.4	3.0	2.8
22	1.1	1.5	1.4	1.9	1.8	1.5	1.7	1.7	2.6	2.3	2.6	2.7
23	1.7	1.3	1.3	1.2	1.8	1.7	2.7	2.2	2.5	2.4	2.7	3.0
24	1.8	1.5	1.6	1.3	1.8	1.3	1.3	1.7	2.2	2.1	2.6	3.0
25	2.1	1.9	1.9	1.6	1.9	1.8	2.5	2.2	2.4	2.4	2.7	2.8
26	2.3	2.0	1.4	1.4	1.5	1.7	1.8	1.7	3.0	2.7	2.8	2.8
27	2.6	2.2	1.7	2.0	1.5	1.6	1.7	1.8	2.0	2.3	2.4	3.0
27	1.7	1.4	1.3	1.1	1.5	1.4	1.4	1.5	2.0	2.2	2.4	2.4
29	1.5	1.2	1.2	1.5	1.4	1.6	2.2	1.9	2.1	2.6	2.9	3.2
30	1.9	1.7	1.5	1.9	1.7	1.9	2.2	1.9	2.2	2.3	2.5	2.8
31	2.1	2.0	1.6	1.3	1.9	1.7	2.0	2.0	2.3	2.4	2.7	2.8
Count	28	28	28	28	28	28	28	28	27	27	27	26
Median	1.8	1.7	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.4	2.7	2.8
Mean	1.8	1.7	1.6	1.6	1.6	1.7	1.9	1.9	2.3	2.4	2.7	2.8

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

Characteristic : fmin
Unit : Mc
Month July 1960

TABLE 6—Contd.
Ionospheric Data
75°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.1	3.1	2.8	2.4	1.9	2.0	1.4	1.1	1.2	1.5	1.3	1.4	1
C	C	C	2.1	1.9	1.6	1.1	1.2	1.4	1.2	2.2	2.1	2
3.0	3.0	2.6	2.2	1.9	2.1	1.4	1.2	1.6	1.4	1.4	1.9	3
2.8	2.0	2.8	2.8	2.8	2.2	1.4	1.4	1.6	1.5	1.5	2.4	4
3.0	2.8	2.8	2.4	1.7	1.9	1.3	1.4	1.5	1.5	2.0	C	5
2.7	2.6	3.1	2.4	1.9	1.5	1.2	1.3	1.1	1.1	1.3	1.8	6
2.6	2.7	2.5	1.9	1.8	1.4	1.0	1.5	1.3	1.4	1.6	1.2	7
2.9	3.1	2.9	2.4	2.2	1.6	1.0	1.3	1.1	1.2	1.3	1.6	8
2.9	3.0	3.0	2.4	3.2	1.9	1.3	1.4	1.5	1.5	1.8	2.0	9
C	C	2.3	2.4	2.3	C	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	2.0	1.4	1.1	S	1.4	S	1.3	1.5	13
2.8	2.6	2.6	2.2	2.2	2.2	1.9	1.4	1.4	2.1	1.6	1.5	14
2.7	3.0	2.7	2.2	1.8	1.7	1.0	1.5	1.6	1.8	2.1	2.4	15
2.5	2.6	2.4	2.1	1.8	1.6	U1.2s	E	1.0	1.1	1.0	1.0	16
2.8	3.0	2.5	2.2	2.0	1.4	E	1.1	E	1.2	1.5	1.4	17
2.3	3.0	2.8	2.4	2.3	2.6	1.5	1.1	1.3	1.1	1.3	1.7	18
3.4	2.4	2.2	2.0	1.8	1.4	1.1	1.1	E	E	1.6	1.8	19
2.8	2.8	2.4	4.7	2.4	2.1	1.5	1.5	1.1	1.5	2.0	2.2	20
3.0	2.6	2.6	2.4	2.0	1.5	E	1.0	1.2	1.2	1.1	1.0	21
C	3.0	2.7	2.5	2.3	2.0	1.5	1.4	1.3	1.2	1.0	1.6	22
3.0	3.1	2.6	2.3	1.8	1.9	1.1	1.1	1.2	1.2	1.5	1.5	23
2.9	2.7	2.8	2.8	2.4	2.0	1.2	1.5	1.2	1.2	1.7	1.8	24
2.8	2.4	2.3	2.0	1.6	1.4	1.2	1.5	1.5	1.7	2.0	2.4	25
2.8	3.0	2.8	2.2	2.0	1.8	1.1	1.2	1.5	1.7	1.6	1.8	26
2.7	3.0	2.4	2.2	2.0	1.4	1.0	1.0	1.1	1.1	1.9	2.4	27
2.6	2.5	2.3	2.1	2.2	1.3	1.1	1.1	1.2	1.1	1.5	1.3	28
3.0	3.0	2.8	2.3	2.1	1.4	1.3	1.0	1.4	1.4	1.7	1.6	29
2.8	2.7	2.4	2.3	2.2	1.8	1.6	1.4	1.5	1.5	2.4	1.2	30
2.7	2.7	2.7	2.2	2.4	1.4	1.5	1.5	1.4	E	1.1	2.1	31
2.5	2.6	2.7	2.8	2.9	2.8	2.8	2.7	2.8	2.7	2.8	2.7	Count
2.8	2.9	2.6	2.3	2.0	1.6	1.2	1.3	1.3	1.2	1.6	1.7	Median
2.8	2.8	2.6	2.4	2.1	1.7	1.3	1.3	1.3	1.4	1.6	1.7	Mean

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

Characteristic . h'F₂
Unit : Km
Month . July 1960

TABLE 7
Ionospheric Data
75°E Mean Time

Latitude : 10.2°N
Longitude . 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	340	L
2								L	L	L	L	C
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	LH
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	u310L
10								L	L	C	C	C
11							C	C	C	C	C	C
12							C	C	C	C	C	C
13							C	C	C	C	C	C
14							L	L	L	L	L	L
15							LH	LH	LH	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	L
23							L	L	L	L	L	LH
24							L	L	L	L	L	L
25							L	L	L	L	L	L
26								L	L	L	L	LH
27								L	L	L	L	335
28								L	L	L	C	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Count								..			1	2
Median								..				
Mean							

See up 1.0 Mc. in to 25.0 Mc in 27 seconds.

Characteristic : h'F₂
 Unit : Km
 Month : July 1960

TABLE 7
 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	150	440	A	A	.							1
C	C	C	L	L	A							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	LH	L	L	L	L							7
L	L	L	L	L	L							8
LH	L	L	A	A	L							9
C	C	L	L	L	L	C						10
C	C	C	C	C	C	C						11
C	C	C	C	C	C	C						12
C	C	C	C	L	A							13
LH	L	L	L	L	L							14
L	L	L	L	L	L							15
L	LH	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	..							20
L	L	L	L	L	L							21
LH	L	L	L	L	..							22
L	L	L	L	..	L							23
L	L	L	L	L	L							24
LH	LH	L	L	L	A							25
LH	LH	LH	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	410	L	L	350	L							30
L	L	L	L	L	A	L						31
..	2	1	.	1	.	.						Count
..	..	.	.		..	..						Median
..	..	..	.	..	..	.						Mean

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : h'F₂
 Unit : Km
 Month : July 1960

TABLE 7—(contd.)
 Ionospheric Data
 75°E Mean Time

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

Date	0030	0130	02	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	LM	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	LM	L	L
10								L	C	C	C	C
11							C	C	C	C	C	C
12							C	C	C	C	C	C
13							C	C	C	C	C	C
14								L	L	L	L	v360r
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	300	L	L	L
21								L	L	L	L	v340L
22							L	L	L	L	L	LM
23								L	L	L	LM	L
24							L	L	L	L	L	LM
25							L	L	L	L	L	L
26							L	L	L	L	LM	LM
27							L	L	L	L	345	L
28							L	L	L	L	L	L
29							L	280	L	L	L	L
30							L	L	L	L	L	L
31							L	L	L	L	L	L
Count								1	1	..	1	2
Median							
Mean							

Sweep 1.0 Mc to 25.0 Mc. in 27 Seconds.

Characteristic h'F₂
Unit : Km
Month : July 1960

TABLE 7—(contd.)
Ionospheric Data
75°E Mean Time

Latitude . 10 2°N
L

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	380	A	A	A								1
C	C	C	L	A								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								6
L	L ₁₁	L	L	L	C							7
L	L	L	L	L	C							8
L	L	L	A	L								9
C	C	L	L	L		C						10
C	C	C	C	C		C						11
C	C	C	C	C		C						12
C	C	C	C	L								13
L	L	L	L	L								14
L	L	L	L	L								1
L	L	L	A	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
C	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 ₁₁	L	L	L								26
L	L	L	L	L	L							27
L	4.5	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	2	..	.	1	..							Count
.	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

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

Characteristic : h'F
Unit : Km
Month : July 1960

TABLE 8
Ionospheric Data
75°E Mean Time

Latitude 10.2°N
Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	500	570	560	500	360	280	260	250	230	215	210	200
2	300	F	300	400	380	300	260	240	A	205H	205	200
3	295	280	275	280	270	240	260	240	235	A	A	200
4	260	280	300	300	300	255	265	240	220	220	200	200H
5	270	280	280	270	260	240	265	245	220	200	200H	200H
6	290	280	280	310	320	265	275	250	235	220	215	200
7	320	330	330	305	260	230	270	250	235	220	210	205
8	F	F	U320F	290	230	240	260	240	225	220	205	A
9	U335F	380	F	315	260	220	270	240	220	220	205	210
10	320	325	340	365	300	250	270	250	230	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	270	280	280	300	335	340	260	240	210	200	205	200
15	300	400	480	F	F	U460F	270	240H	220	220H	200	210
16	250	260	255	240	260	240	270	245	240	220	200H	200H
17	275	260	280	300	250	240	260	250	230	220	200	200
18	305	340	370	320	240	225	260	235	230	220	210	215
19	300	270	280	260	280	260	260	240	220	220	B	A
20	300	300	320	340	320	240	265	240	220	220	200	200
21	265	270	350	385	300	280	280	240	230	210	200	200
22	365	U325F	U320F	U310F	U280F	235	265	235	220	205H	205H	200H
23	U305F	U300F	U320F	U315F	U280F	220F	265	245	220	215	220	205H
24	U300F	U280F	U290F	280	255	235	260	235	215	200	180H	205H
25	315	335	365	360	U280F	235	255	230	215	200	200H	200
26	295	285	260	250	230	245	255	A	220	200	200	200H
27	295	280	285	255	220	240	255	235	225	205	205	200
28	300	285	315	320	250	210	260	230	215	200	C	205
29	225	220	240	240	250	235	260	230	220	210	200	195H
30	330	390	440	425	U400F	300	260	230	220	210	205	210
31	250	250	270	275	240	220	250	225	220	190H	185H	185H
Count	27	26	27	27	27	28	28	27	27	26	24	25
Median	300	280	300	305	270	240	260	240	220	210	200	200
Mean	300	310	325	315	280	255	265	240	225	210	205	200

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic h'F
Unit Km
Month July 1960

TABLE 8
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
200 _{II}	200 _{II}	A	A	A	A	A	320	340	F	F	340	1
C	C	C	A	A	A	280	325	320	320	340	320	2
200	200	220 _{II}	240	A	A	A	320	320	320	305	275	3
200	215	210	220 _{II}	235	A	275	310	F	F	300	300	4
195	200	200 _{II}	215	220	245	280	330	F	F	320	290	5
205	200	210	220	235	260	290	u330 _F	r390 _F	u 390 _U	360	345	6
205	195	190	200	240	255	u300 _A	360	u390 _F	F	F	F	7
195	180 _{II}	220	220	225	245	u285 _A	305	340	345	330	330	8
200	195	200 _{II}	u240 _A	A	250	280	300	F	u370 _F	370	340	9
C	C	220	215	240	260	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	C	A	A	A	A	350	320	300	13
200	200	185	A	B	A	260	305	315	340	300	270	14
200	200	210	210	230	A	u320 _A	280	F	330	300	240	15
200 _{II}	215	200	A	A	A	265 _{II}	340	F	F	u430 _F	310	16
200	220	A	A	230	260	280	340	400 _F	420	350	340	17
200 _{II}	200 _{II}	225	220	230	240	265	280 _F	300 _F	320	320	320	18
200	190	200	220	A	A	280	315	320	340	340	300	19
200	195	200	220	240	240	260	275	300	305	310	300	20
200	200	190 _{II}	200 _{II}	235	240	260	340	350	350	340	340	21
200	195 _{II}	190 _{II}	200 _{II}	230	260	275	u330 _F	F	u340 _F	u340 _F	F	22
210	200	200 _{II}	A	A	A	A	340	F	F	u400 _F	u350 _F	23
195 _{II}	195	215	A	A	240	280	u320 _F	F	F	F	u315 _F	24
190 _{II}	200 _{II}	215	200 _{II}	A	A	270	300	u320 _F	345	360	330 _F	25
200 _{II}	200 _{II}	200 _{II}	225	A	A	275	320 _F	u340 _F	320	310	310	26
180 _{II}	200	190 _{II}	180 _{II}	220	A	280	340	F	F	320	300	27
200	200	190 _{II}	205	200	240	A	305	290	280	270	260	28
180 _{II}	195 _{II}	200	225	225	250	285	315	340	350	300 _F	290	29
205	200 _{II}	195 _{II}	185 _{II}	210 _{II}	240	270	300	300	310	320	295	30
195	200	205	205	215	A	A	330	330	320	295	300	31
26	26	25	21	17	15	22	27	18	20	25	26	Count
200	200	200	215	230	245	280	320	325	340	320	305	Median
200	200	205	215	225	250	280	320	335	340	330	310	Mean

sweep 1.0 Mc, to 25.0 Mc, in 27 Seconds.

Characteristic : h'F
Unit : Km
Month : July 1960

TABLE 8—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	550	560	560	460	300	280	260	230	220	205	220 _H	195 _H
2	280	280	360	400	340	295	250	A	205 _H	200	205	C
3	280	275	275	275	240	260	245	240	220	A	210	200
4	260	300	315	300	275	260	245	240	220	200	200	215 _H
5	290	280	270	260	240	275	255	230	220	200	195 _H	200 _H
6	280	285	300	325	300	280	260	240	230	220	210	205
7	320	340	310	285	235	260	260	240	220	215	210	200
8	F	u345 _F	u300 _F	245	235	265	250	230	220	210	200 _H	200
9	360	u380 _F	u355 _F	285	230	255	260	240	210	210	205	205
10	300	320	360	320	270	280	260	240	C	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	270	280	280	320	340	280	250	225	215 _H	205	200	200
15	340	435	u520 _F	F	E	300	255	230	215	200 _H	205 _H	200
16	260	260	250	225	265	265	260	250	230	210 _H	195 _H	200
17	260	260	300	280	230	270	260	240	220	200	200 _H	200
18	315	360	340	285	220	265	250	230 _H	220	200 _H	200	220
19	280	280	275	280	280	280	240	220	230	u220 _B	240	200 _H
20	300	310	340	340	280	280	250	230	220	205	200	200
21	260	300	400	380	260	280	250	240	220	215	200	200
22	340	u325 _F	u315 _F	u290 _F	u240 _F	240	250	230	210 _H	200 _H	205	200
23	u300 _F	u305 _F	u315 _F	u300 _F	u245 _F	245	245	230	220	210	220	200
24	u300 _F	u280 _F	290 _F	260	240	255	250	230	215	195 _H	210	200 _H
25	315	365 _F	365	320	u250 _F	255	240	230	200	200 _H	195 _H	190
26	300	270	255	250	240	270	240	A	220	205	200	195 _H
27	275	290	270	240	235	265	245	230	215	200	195 _H	190 _H
28	300	300	325	295	225	230	245	225	210	190 _H	200	200
29	210	230	240	245	240	280	245	220	210	210	200	200 _H
30	360	430	445	420	340	260	240	225	210	215	210	210
31	240	260	280	260	230	245	u225 _C	220	200 _H	195 _H	185 _H	185 _H
Count . . .	27	28	28	27	28	28	28	26	27	26	27	26
Median . . .	300	300	310	285	240	265	250	230	220	205	200	200
Mean . . .	300	320	330	300	260	265	250	230	215	205	205	200

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

Characteristic · h'F
Unit · Km
Month · July 1960

TABLE 8—(cont.)
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
200	260	A	A	A	A	A	370	350	F	F	300	1
C	C	C	A	A	300	300	340	320	320	335	300	2
200	200H	235	A	A	A	A	320	320	315	300	260	3
200	200	210	220	240	A	300	335	F	320	300	300	4
200	200	205	220	230	260	300	F	F	315	300	C	5
200	220	220	225	250	270	305	F	360	u360F	340	330	6
200	195	195	235	240	u270A	u310A	395	F	F	F	F	7
185H	210	220	220	230	260	u295A	320	340	330	325	330	8
195	220	220	A	240	270	260	F	F	360	350	320	9
C	C	220	195H	245	C	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	u255A	A	A	A	350	320	315	280	13
200	200	185	220	235	A	275	300	320	320	u280A	295	14
190	200	205	220	u240A	A	340	u280F	330	300	270	240	15
200H	210	A	A	A	270	u310A	FS	F	u400F	330	280	16
200	A	u230A	240	270	280H	300	u360F	u460F	400	340	310	17
200H	200H	220	220	240	250	265	320F	300F	320	320	310	18
190	200	190H	A	A	260	300	320	320	340	320	320	19
200	200	u230A	B	240	260	260	300	300	320	300	280	20
200	190H	195H	230	225	260	300	u340F	340	360	340	350	21
C	200H	215	220	240	265	300	u360F	F	F	u340F	u310F	22
210H	200	210	u220A	A	A	310	380F	F	F	u370F	330	23
195H	200H	210	220	A	260	285	F	F	F	F	u310F	24
180H	210	205	215	A	A	A	315F	F	355	345	305	25
200H	200H	210H	215H	235	A	A	340	u290F	u310F	310	305	26
180H	195H	185H	180H	240	260	310	315	F	320	310	300	27
200	200H	200	200	230	260A	A	A	290	280	270	245	28
200	215	205	220	225	270	290	335	335	u325F	285F	300	29
200	200	200H	180H	240	260	285	305	305	315	305	275	30
185H	200	210	215	230	A	u320A	330	320	315	300	265	31
25	25	25	21	21	18	22	21	18	23	25	26	Count
200	200	210	220	240	260	300	330	320	320	315	300	Median
195	205	210	215	240	265	295	330	330	330	315	300	Mean

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

Characteristic : h'E
 Unit : Km
 Month : July 1960

TABLE 9
 Ionospheric Data
 75°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2								A	A	A	A	A
3								105	105	A	A	A
4							120H	100	A	A	A	A
5								105	105	B	A	A
6							130	120	A	A	A	A
7								A	A	A	A	A
8								115	A	A	A	A
9								110	A	A	A	A
10								A	A	C	C	C
11							C	C	C	C	C	C
12							C	C	C	C	C	C
13							C	C	C	C	C	C
14								110	A	A	A	A
15								120	110	A	A	B
16								110	110	A	A	A
17							130	120	A	110	110	A
18							..	A	110	110	A	A
19							120	115	A	A	B	A
20							..	120	110	A	A	A
21							.	120	110	110	A	120
22							140	A	A	A	A	A
23							.	A	A	A	A	A
24							140	115	115	A	A	A
25							.	A	A	A	A	A
26							.	A	A	A	A	A
27							130	105	105	A	A	A
28							120	110	110	105	A	C
29							.	A	A	A	A	A
30							..	115	105	A	A	A
31							..	105	110	A	A	A
Count							8	18	12	4	1	1
Median							130	110	110	.	..	..
Mean							130	110	110	..	..	..

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

Characteristic . h'E
 Unit : Km
 Month . July 1960

TABLE 9
 Ionospheric Data
 75°E Mean Time

Latitude 10·2° N
 Longitude 77·5° E

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

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

Characteristic : h'E
 Unit : Km
 Month : July 1960.

TABLE 9—(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							105	A	A	A	A	△
2							105	A	A	A	A	△
3							120	105	105	A	A	△
4							105 _H	A	A	A	A	△
5							120	A	A	A	A	△
6							125	A	A	A	A	△
7							A	A	A	A	A	△
8							120	A	A	A	A	△
9							120	A	A	A	A	△
10								A	C	C	C	C
11							C	C	C	C	C	C
12							C	C	C	C	C	C
13							C	C	C	C	C	C
14							115	110	A	A	A	△
15							..	110	110	A	A	△
16							..	110	105	A	A	△
17							120	110	110	110	110	△
18							A	120	110	A	A	△
19							120	110	115	B	A	△
20							120	110	110	A	A	△
21							A	115	110	A	A	120
22							A	A	A	A	A	△
23							..	A	A	A	A	△
24							105	120	A	A	A	△
25							A	A	A	A	A	△
26							A	A	A	A	A	△
27							115	110	A	A	A	△
28							120	110	105	A	A	△
29							130	A	A	A	A	△
30							120	110	A	A	A	△
31							120	105	A	A	A	A
Count							18	14	9	1	1	1
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 : July 1960

TABLE 9—(contd.)
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

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

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

Characteristic : h'Es
Unit : Km
Month : July 1960

TABLE 10
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								100	100	100	100	100
2				110				100	100	100	100	100
3								G	100	100	100	100
4				105			G	G	100	100	100	100
5				..				100	G	G	100	100
6				..			G	G	100	100	100	100
7		120		120			120	100	100	100	100	100
8	120	120		..			135	100	100	100	100	100
9	120	..		..				100	100	100	100	100
10	..	100	100	120			.	100	100	C	C	C
11	C	C	C	G	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	100	120	100	..		100	..	100	100	100	100	100
15				..			120	100	100	100	100	100
16				.				G	100	100	100	100
17			110	..	120		G	120	115	100	100	100
18		100		120	100			120	100	100	100	100
19	100	100		100			G	105	100	100	100	100
20	.	120		..				140	100	100	100	100
21	..	..		120				110	100	100	100	100
22	100	100	105	120	115		G	100	100	100	100	100
23	120	120	125	120				110	105	100	100	100
24	.		135	110			G	G	G	100	100	100
25	120	120	120	120			.	110	100	100	100	100
26	..	..	..	..			.	100	100	100	100	100
27	..	..	..	..			G	100	100	100	100	100
28	110	120	120	155			G	145	100	100	C	100
29	120	..	..	..				105	100	100	100	100
30	125	..	..	..				100	100	100	100	100
31	-	115	110	110			.	115	115	100	100	100
Count	10	12	9	13	3	1	3	23	26	26	26	27
Median	120	120	110	120	.			100	100	100	100	100
Mean	115	115	115	120	.	.		110	100	100	100	100

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

Characteristic : h'Es
Unit . Km
Month . July 1960

TABLE 10
Ionospheric Data
75°E Mean Time

Latitude 10.2 N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	100	100	100	100	100	105	100	1
C	C	C	100	100	100	100	100	100	100	110		2
100	100	100	100	100	120	115	140	100	100	100		3
100	100	100	100	100	100	100			115	130		4
100	100	100	100	100	G	140	100	..	.	.		5
100	100	100	100	105	G	100	120	105	100	120	100	6
100	100	100	100	100	100	100	100	135	100	130	120	7
100	100	100	120	100	100	100	100	110	100	100		8
100	100	100	100	100	G	120	100		120	120		9
C	C	100	100	100	100	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	C	100	100	100	100	100	100	100	13
100	100	100	100	100	100	100	100	100	100	100	100	14
100	100	100	100	100	100	100	100	.	100	120	120	15
100	100	100	100	100	100	100	100	105	100	100	110	16
100	100	100	110	110	110	120	110	105	100	100	120	17
100	100	100	100	105	110			140	125	100	.	18
100	100	100	100	100	100	100	100	100	100	120	.	19
100	100	100	G	G	140	..	130	130	140	120	100	20
100	100	100	100	100	100	100	100	100	100	100	100	21
100	100	100	100	110	115	.		.		130	115	22
100	100	100	105	100	100	100	100	100	100	100		23
100	100	100	130	135	G	100		.	115	115		24
100	100	100	100	100	100	100	100	100	100	..	120	25
100	100	100	100	100	100	100	100	100	100	.	..	26
100	100	100	100	105	110	105	105	150	120	115	120	27
100	100	100	100	100	115	100	100	100	100	100	..	28
100	100	100	100	100	100	100	135	100	115	100		29
100	100	100	100	100	100	105	.	100	100	.	120	30
100	100	100	100	125	100	100	100	100	100		.	31
26	26	27	27	27	25	25	23	22	25	23	13	Count
100	100	100	100	100	100	100	100	100	100	105	115	Median
100	100	100	100	105	105	105	105	110	105	110	110	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 72 seconds.

Characteristic . h'Es
Unit . Km
Month . July 1960

TABLE 10—*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	120						G	100	100	100	100	100
2							G	100	100	100	100	C
3							G	G	100	100	100	100
4							G	100	100	100	100	100
5							G	100	100	100	100	100
6							G	100	100	100	100	100
7	120						120	100	100	100	100	100
8	120	120				130	120	100	100	100	100	100
9	150						100	100	100	100	100	100
10	..	100	100					100	C	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	100	100			110	100	G	100	100	100	100	100
15							120	100	100	100	100	100
16	..							100	100	100	100	100
17				120			G	120	120	100	100	100
18	100		120	120			120	115	100	100	100	100
19	100						100	100	100	100	100	100
20			..				G	105	100	100	100	100
21				120			120	105	100	100	100	100
22	100	100	120	120			105	100	100	100	100	100
23	120	115	120	115			175	105	100	100	100	100
24			120	110			120	140	100	100	100	100
25	125	115	125	135		105		100	100	100	100	100
26							105	100	100	100	100	100
27							G	100	100	100	100	100
28	100	120	140	110	..		G	100	100	100	100	100
29							115	100	100	100	100	100
30					..		G	G	100	100	100	100
31	105	100	115	110			G	115	100	100	100	100
Count	12	8	8	9	1	3	12	26	27	27	27	26
Median	110	110	120	120	.		120	100	100	100	100	100
Mean	115	110	120	120	.		120	105	100	100	100	100

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

Characteristic h'Es
Unit Km
Month : July 1960

TABLE 10—contd.
Ionospheric Data
75°E Mean Time

Latitude 10.2°N
Longitude : 77 5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100	100	100	100	100	100	100	100	1
C	C	C	100	100	100	100	100	100	100	105	100	2
100	100	100	100	100	100	120	100	100	100	100	..	3
100	100	100	100	G	100	100	..	..	120	110	..	4
100	100	100	100	100	G	100	..	..	..	..	..	5
100	100	100	100	100	110	100	120	100	100	110	..	6
100	100	100	100	100	100	100	..	135	..	125	120	7
100	100	G	115	100	100	100	110	100	100	100	120	8
100	100	100	100	100	G	100	..	..	..	105	..	9
C	C	100	100	100	C	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
100	100	100	100	110	100	100	100	100	100	100	100	13
100	100	100	100	100	100	100	120	100	100	100	100	14
100	100	100	100	100	100	100	120	120	135	120	120	15
100	100	100	100	100	100	100	105	105	100	105	100	16
100	100	100	105	110	120	110	110	100	100	120	120	17
100	100	100	100	105	100	100	140	140	100	100	100	18
100	100	100	100	100	100	100	100	100	100	140	120	19
100	100	120	B	140	140	..	120	125	..	100	..	20
100	100	100	100	105	100	100	100	100	100	100	100	21
C	100	100	100	115	115	..	..	..	135	120	125	22
100	100	100	105	100	100	100	100	100	105	100	105	23
100	100	150	G	125	135	100	..	..	120	..	110	24
100	100	100	100	100	100	100	100	100	100	..	..	25
100	100	100	100	100	100	100	100	100	100	100	100	26
100	100	100	100	115	105	100	105	105	120	115	120	27
100	100	100	100	100	100	100	100	100	100	..	..	28
100	100	100	100	100	100	100	100	110	100	120	..	29
100	100	100	100	100	100	100	100	100	100	140	90	30
100	100	100	100	100	100	100	100	100	100	90	..	31
25	26	26	26	28	25	25	22	23	24	24	15	Count
100	100	100	100	100	100	100	100	100	100	105	110	Median
100	100	105	100	105	105	100	105	105	105	110	110	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : (M3000)F₂

TABLE 11

Latitude : 10 2°N

Unit :

Ionospheric Data

Longitude : 77 5"E

Month : July 1960

75°E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	F	F	F	F	F	2 90 _F	2 75	2.50	2 20	2 20	2 20
2	2 70	F	F	u2 30 _F	2 45	2 70	2 80	2 85	2 60	2 30	2 20	2 20
3	2.75	2 90	2 85	2 85	2 90	3 05	3 05	2 95	2 75	2 45	2 30	2 25
4	2 85	2 70	2 65	2 75	2 75	2 80	2 85	2 80	2 55	2 35	2 15	2 10
5	2 75	2 80	2 85	2.90	2 95	2 85	2 95	2.80	2 65	2 50	2 30	2 15
6	u2 75 _s	2 85	2 95	2 80	2 60	2 90	2 95	2 90	2 70	2 40	2 20	2 20
7	u2 65 _s	FS	2 60 _F	2 60	2 95	3 10	3 00	2 70	2.50	2 30	2.25	2 25
8	F	F	F	u2 95 _{FS}	3 20	3 30	3 00	2 65	2.40	2 35	2 30	2 30
9	F	F	F	F	3 00	3 35	3 00	2 80	2.50	2 25	2.35	2 35
10	u2 70 _s	2 70	2 60	2 60	2 75	3.20	3 00	2 85	2 55	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	3 15	2 95	2 95	2 75	2 65	2 60	3 05	j3 05 ₄	2.75	2 45	2 20	2 55
15	2 65	2 15	2 20	F	F	F	3 05	3 00	2.75	2 35	2 30	2 35
16	3 10	2 95	3 05	3 35	3 10	3 30	3 05	2 90	2 75	2 35	j2 30 _R	2.25
17	u2 60 _F	2 75	2 75	u2 75 _s	3.10	2 95	3 05	3 10	2 90	2 80	2 45	2 20
18	F	F	F	F	F	3 50	3 10	3 10	2.80	2.55	2 30	2.30
19	2 80	2 80	3 00	2 90	2 75	3.00	3.00	2 90	2 75	2 65	2 45	2 20
20	u2.80 _s	2.75	u2.70 _{sH}	2 65	2 75	3 40	3 00	3 00	u2.70 _F	2 40	2 30	2.35
21	3.00	u3.20 _s	2.60	2 40	2 90	3 10	2 90	2 95	2 80	2 40	2 20	2.40
22	2.50	F	F	F	F	u3 25 _s	3 05	2.75	2.45	2.30	2 40	2 40
23	F	F	F	F	F	F	u3 15 _s	2 95	2 70	2 30	2 15	2.20
24	F	F	u2 80 _F	2.85 _F	3 05	3 35 _F	3 05	3 20	3 00	2 65	2 30	2.30
25	2.70	2 60	2 55	u2 55 _s	F	3 20	3 20	3 05	2 90	2 40	2.20	2.40
26	2 75	2 85	3 00	3.15	3 35	3 30	3.15	3 00	2.70	2 40	2.30	2.25
27	2.75	2 85	2 95	3 10	3 30	3.25	3 15	3 00	2 65	2 30	2 40	2.40
28	2 85	2 85	2.70	2 70	3 10 _F	3 55	3 15	3 00	2 60	2.30	C	2 45
29	3 30	u3 15 _s	3.20	3 25	3 30	3 35	3 05	3.05	2 70	2 35	2 35	2 40
30	2 55	2.40	2 35	F	F	F	u3 05 _F	2 85	2.70	2 25	2 25	2 25 _{II}
31	3 05	3.15	3 10	3 00	3 15	3 25	3 20	3 15	3.05	2.80	2 40 _{II}	2.25 _{II}
Count	22	19	21	21	21	24	28	28	28	27	26	27
Median	2 75	2 85	2 80	2 80	2 95	3 20	3.05	2.95	2 70	2.35	2 30	2.25
Mean	2 80	2 80	2 80	2 80	2 95	3 15	3.05	2 95	2 70	2 40	2 30	2 30

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

Characteristic (M3000)F₂
 Unit .
 Month July 1960

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
2.20	2.20	2.25	2.35	2.45	u2.50s	2.50	2.45	2.30	F	F	F	1
C	C	C	2.15	2.20	2.30	2.40	2.45	2.45	2.55	2.50	2.60	2
2.15	2.10	2.20	2.20	2.35	2.45	2.50	2.45	2.55	2.55	2.60	2.75	3
2.20	2.10	2.20	2.25	2.20	2.40	u2.55s	2.45	2.45	2.45	2.50	2.55	4
2.10	2.10	2.10	2.20	2.20	2.35	2.35	2.20	2.20	u2.40s	2.50	2.60	5
2.15	2.15	2.15	2.20	2.25	2.30	u2.30s	2.30	u2.20sr	2.40F	2.45	2.55	6
2.25	2.10	2.05	2.20	2.20	2.25	2.35	2.30	F	F	F	F	7
2.35	2.30	2.35	2.45	2.50	2.65	2.60	u2.55s	2.55	2.60	2.55	2.60	8
2.30	2.20	2.20	2.35	2.50	2.65	2.65	2.60	2.45	2.50	2.45	2.55	9
C	C	2.25	2.25	2.25	2.30	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	C	2.45	2.60	2.65	2.65	2.70	2.65	2.80	13
2.60	2.50	2.40	2.25	2.30	2.45	J2.65s	2.65	2.65	2.70	2.80	3.00	14
2.20	2.50	2.25	2.35	2.50	2.45	2.30	u2.15s	F	2.50	2.70	u3.10s	15
2.25	2.35	2.35	2.30	2.30	2.35	u2.30s	u2.40s	u2.15F	2.25	F	u2.55F	16
2.30	2.25	2.20	2.30	2.45	2.45	2.40	2.30	u2.20F	2.25	u2.40F	F	17
2.35	2.30	2.50	2.45	2.45	2.50	2.55	2.50	2.50	2.60	2.65	2.65	18
2.15	2.30	2.30	2.30	2.35	2.50	2.65	2.60	2.55	2.60	2.60	2.65	19
2.45	2.35	2.40	2.40	2.65	u2.75R	2.75	2.80	2.70	u2.70s	2.65	u2.90s	20
2.40	2.30	2.20	2.25	2.30	u2.45s	2.55	2.45	2.40	u2.45s	2.50	2.50	21
2.45	2.30	2.40	2.40	2.45	2.50	2.50	2.35	F	F	F	F	22
2.25	2.30	2.30	2.25	2.30	2.50	2.55	2.45	2.30F	F	F	F	23
2.35	2.30	2.30	2.30	2.45	2.55	2.50II	2.40	F	F	F	F	24
2.30	2.20	2.40	2.35	2.45	2.60	2.75	2.70	2.65	2.50	2.45	u2.65F	25
2.20	2.10	2.30	2.30	2.35	2.50	2.55	2.60	2.60	2.65	2.65	2.70	26
2.30	2.25	2.30	2.30	2.40	2.60	2.55	2.50	J2.40F	F	2.60	2.70	27
2.40	2.10II	2.25	2.25	2.35	2.40	2.70	2.70	2.70	2.80	2.80	3.05	28
2.35	2.40	2.25	2.10	2.20	2.40	2.50	2.40	2.40	F	u2.55F	2.70	29
2.35	2.30	2.30	2.30	2.20	2.20	2.50	2.40	2.55	2.60	2.60	2.85	30
2.30	2.30	2.20	2.30	2.40	2.60	2.60	2.55	2.60	2.60	2.75	u2.75s	31
26	26	27	28	28	29	28	28	24	21	22	22	Count
2.30	2.30	2.25	2.30	2.35	2.45	2.55	2.45	2.50	2.55	2.60	2.70	Median
2.30	2.25	2.25	2.30	2.35	2.45	2.50	2.50	2.45	2.55	2.60	2.70	Mean

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

Characteristic . (M3000)F₂

TABLE II (contd)

Latitude : 10°2'N

Unit :

Ionospheric Data

Longitude : 77°5'E

Month : July 1960

75°E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	F	F	F	F	F	2.90	2.60	2.35	2.20	2.10	2.10
2	2.80	F	u2 45 _F	2.30	2.65	2.75	2.95	2.80	2.45	2.20	2.10	C
3	2.85	2.90	2.80	2.85	2.95	3.15	3.05	2.85	2.60	2.30	2.20	2.15
4	2.80	2.70	2.70	2.70	2.70	2.95	2.85	2.75	2.50	2.15	2.15	2.10
5	2.70	2.80	2.80	2.90	2.85	2.90	2.90	2.70	2.55	2.45	2.30	2.15
6	u2 75 _s	2.90	2.90	2.60	2.80	3.00	2.85	2.65	2.50	2.30	2.20	2.15
7	u2 55 _F	2.55 _F	2.60	2.80	3.05	3.15	2.85	2.65	2.30	2.25	2.30	2.30
8	F	F	F	3.10	3.30	3.05	2.90	2.50	2.40	2.30	2.35	2.30
9	u2 55 _F	F	F	u2 80 _F	3.10	3.05	2.85	2.75	2.40	2.30	2.30	2.35
10	2.75	2.75	2.55	2.75	2.90	3.00	2.90	2.70	C	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C
14	3.00	3.00	2.90	2.70	2.50	2.80	3.00	2.90	2.60	2.30	2.25	2.65
15	2.35	2.20	2.20 _F	F	E	2.70	3.05	2.95	2.60	2.15	2.40	2.30
16	3.00	3.00	3.20	3.40	3.15	3.45	2.90	2.90	2.70	2.25	2.35	2.30
17	u2 80 _s	2.80	u2 70 _s	u2 70 _s	3.20	3.00	3.15	2.90	2.90	2.75	2.30	2.20
18	F	F	F	F	u3 40 _s	3.10	3.20	2.95	2.65	2.35	2.35	2.40
19	2.80	2.90	3.00	2.85	2.85	2.95	3.00	2.90	2.80	2.55	2.25	2.15
20	2.80	u2 90 _s	2.65	2.70	2.80	3.00	3.00	u2 85 _s	2.60	2.30	2.35	2.40
21	3.20	2.90	2.30	u2 60 _R	3.30	2.90	2.90	2.90	2.65	2.20	2.35	2.40
22	F	F	F	F	u3 15 _F	3.20	2.90	2.65	2.35	2.40	2.35	2.30
23	F	F	F	F	F	F	u3 10 _F	2.90	2.50	2.15	2.50	2.30
24	F	F	u2 85 _F	2.95	3.25	3.15	3.20	3.05	2.85	2.45	2.10 _R	2.35
25	2.65	2.55 _F	2.50	F	F	3.10	3.20	2.90	2.60	2.10	2.30	2.35
26	2.75	u2 95 _s	3.10	3.20	3.30	3.10	3.05	2.80	2.60	2.35	2.30	2.25
27	2.75	2.95	3.05	3.20	3.25	3.05	3.05	2.80	2.60	2.40	2.40	2.35
28	2.85	2.80	2.65	F	3.30	2.90	3.15	2.85	2.45	2.30	2.35	2.35
29	3.30	3.20	3.25	3.25	3.40	3.35	3.10	2.95	2.50	2.30	2.30	2.35
30	2.45	2.30	F	F	F	F	2.90	2.80	2.55	2.15	2.20	2.40
31	3.20	3.15	3.05	2.95	3.30	2.95	3.15	3.05	2.95	2.60	2.20 _R	2.30
Count	22	20	21	20	23	25	28	28	27	27	27	26
Median	2.80	2.90	2.80	2.80	3.15	3.00	3.00	2.85	2.60	2.30	2.30	2.30
Mean	2.80	2.80	2.75	2.85	3.05	3.05	3.00	2.80	2.55	2.30	2.30	2.30

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

Characteristic (M₃₀₀₀)F₂
Unit
Month : July 1960

TABLE I I (contd.)
Ionospheric Data
75°E Mean Time

Latitude . 10°2'N
Longitude 77°5'E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2 10	2.20	2 25	2.40	u2 45s	2 45	2 50	2 35	2.35F	2 35	F	2 65	1
C	C	C	2 20	2.25	2 40	2.45	2 45	2.55	2 55	2.55	2 70	2
2 10	2 20	2 20	2.35	2.45	2 50	2 50	2 50	2.55	2 60	2 60	2 85	3
2 15	2 10	2 20	2.20	2.30	2.45	2 50	2.45	2.50	2 50	2 60	2 70	4
2 10	2 10	2.10	2 20	2 30	2 30	2 30	2.20	2 35	2.40	2 55	C	5
2 15	2 10	2 20	2 25	2.30	2.35	2 35	u2 25s	2.30	2 40	2 45	u2 60F	6
2 15	2.10	2 10	2.25	2 20	2.30	u2 40s	2 30	F	F	F	F	7
2 35	2 30	2 40	2.45	2 60	2 60	2 60	2 50	2 50	2 55	2 60	u2.60F	8
2 30	2 15	2 30	2 45	2.65	2 70	2.70	2 50	2 45	2 45	2.45	2.65	9
C	C	2 30	2 30	2 25	C	C	C	C	C	C	C	10
C	C	C	C	C	C	C	C	C	C	C	C	11
C	C	C	C	C	C	C	C	C	C	C	C	12
C	C	C	C	2 40	2 60	2 60	2 70	2 65	2 70	2.65	3 00	13
2 50	2 40	2.30	2 20	2 35	u2.60s	2 65	2.60	2.65	2 70	2.95	2 85	14
2.20	2 30	2 25	2.45	2.50	2.35	u2.25s	F	u2 40F	S	u2 95s	3 05	15
2 30	u2 40s	2 30	2.30	2 35	u2.30s	u2 30s	u2 20s	u2 30sF	F	F	u2.40F	16
2.30	2 30	2 30	2 40	2 50	u2 50s	2.40	u2 25sU	u2.20F	u2.35F	u2.45F	F	17
2 25	2 40	2.45	2 45	2.50	2 55	2 60	2 50	u2.55F	2 60	2 60	2.80	18
2.20	2 35	2.30	2 30	2 30	2 60	2 65	2.60	2.50	2.55	2 60	u2.70s	19
2.30	2 45	2.40	2 55	2 70	2.75	2.80	2 70	2.70	2 75	u2.80s	u2.90s	20
2 40	2 25	2 30	2 25	2 40	u2.60s	u2 60s	2 40	2 40	2 50	2 50	2.50	21
C	2.30	2 40	2 45	2 40	2 50	2.45	2 30	F	F	u2 45F	F	22
2 35	2.30	2 25	2 25	2.35	2.55	2.55	2.40	u2.35F	F	F	F	23
2 30	2.30	2.35	2.35	2 45	2 50F	2.50	F	F	F	F	2.60	24
2.30	2 30	2 35	2 40	2 50	2.70	2 80	2 65	2 60	2.45	2.50	2.75	25
2.20	2.20	2.30	2 35	2.45	2.55	2 55	2 55	2 65	2.65F	2.70	2.70	26
2.30	2.30	2 30	2 30	2 45	2.50	2.45	2 40	F	2.55	2 70	2.75	27
2.25	2 25	2 30	2 25	2 30	2.55	2.65	2 70	2 75	2.85	2.80	3 05	28
2 40	2 30	2 20	2 10	2.35	2 45	2.45	2 40	2 40	F	2 60	2.65	29
2.30	2.30	2 25	2 30	2 20	2 35	2.45	2.50	2.55	2 60	2 65	2.95	30
2.35	2.20	2 30	2 30	2.50	2.60	2.60	2.55	2.60	2.70	2.70	S	31
25	26	27	28	29	28	28	26	24	21	23	22	Count
2.30	2.30	2 30	2.30	2.40	2.50	2.50	2.50	2 50	2 55	2 60	2 70	Median
2.25	2 25	2 30	2.30	2.40	2 50	2 50	2 45	2 50	2 55	2.65	2.75	Mean

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

Characteristic : foF₂
Unit . Mc
Month : August 1960

TABLE 12
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	9 0	7 7	6 8	5 8	4 7	2 8	6 4	9 2	10 0	10 5	10·8	10 6
2	8·8	8 2	8 5	7 8	6 3	5·1	6 6	9 2	10 2	9 8	8 7	8 4
3	8 5	7 3	6·8	5 5	4 8	3·8	6·3	8 7	9 4	9 3	9 3	8 9
4	10 0	8 6	6 2	5 7	5 4	5 2	7 1	8 9	9 5	9 8	8 8	8·6
5	10·2	9 4	8 0	5 9	4 3	3 1	6 1	8·6	10 0	9 8	9 4	9 0
6	8 6	7 9	7 3	7·2	5 8	4 0	5 8	8 4	9 3	9 1	8 4	8 2
7	8 2	7 6	6 7	5 6	4 5	3 2	5 6	8 2	9 4	C	C	C
8	8·8	7 8	7 4	6 8	6 3	5·3	6 9	8 8	10 1	10 4	8 8	8 6
9	6 8	u5 4s	F	F	F	3 7	6·2	9 4	10 1	10 8	9·9	9 3
10	7·2	J5 4RH	3 6	3 6	3 8	J2·3R	6 0	9·2	10 6	11 2	11 4	10 8
11	8·5	7 9	6 9F	F	6 5F	6 2	7 4	fs	11 4	11·4	10 8	10 8
12	11·4	8 4	7 1	7 0	6 4	5 8	7 5	9 4	J10 0R	11 0	11·1	11·0
13	9·9	6 8	4 9	4 6	5 1	4·7	6 4	9·7	10 6	10 8	10 4	10 2
14	J10 0F	10 0	8 5	8 7	8 9	8 4	8 8	10 6	10 8	10 7	10 4	10 6
15	11 2	10 4	10 5	9 1	6 8H	6 3	8·4	10·6	11 1	11 0	10 7	10 4
16	fs	8 8	8 3F	F	7 4	6 6	8·2	11 1	12 1	12·2	11 8	11 3
17	F	F	F	F	F	F	u8 8FH	10 9	12 5	12 2H	12·3II	14 2
18	9 2	8 4	6·4	6 1	6·8	7 0	6·5	10 2	12 0	12 2	11 8	12 0
19	u11 7FS	F	F	F	8 6	5·7	7 2	10 1	11 8	12·0	11·5	11 5
20	F	F	F	10 2	F	F	9 6	11 4	12·3	13 3	13·7	u13·0R
21	u12·0s	11 1	10 3	10 5	9 5	5 1	7 0	10 4	u11 7s	10 9	10 4	10 9
22	F	F	u10 5F	fs	8 0	6 5	8 0	10 7	u11 9F	12 1	12 8	13 3
23	12·3	11·8	10 4	9 5	u8 7R	5 3	6 7	10 1	11 3	11 5	11 3	10 7
24	11 5	11 0	9 8	9·1	6 9	3 7R	6 6	10·0	11 1	9 9	8·9	8 9
25	F	u9 7F	9·6	F	F	F	6·8	9 4	10 7	11 1	11 3	11 1
26	F	F	F	8 4	8 1	5 7	6 2	9 5	11 1	11·0	10 0	9·6
27	11 4	F	10 4	F	F	6 8	6 2	9 4	10 8	11 4	10·8	9 8
28	F	F	F	8·4F	7·6F	F	8 4	9 5	11 7	12 4	12 7	13·0
29	10 0	C	9 8	7 8	6 7	5·2	6 4	9·2	10 4	10·8	8 9	9·0
30	10 6	u9·2s	u7 2s	6 6	6·1	5 8	7 4	10 2	11·7	12 2	12·7	13 0
31	u11 8s	u9 5s	u6·2s	5 0	3 6	3 3	6 3	9 8	11 3	12 0	12·2	11·7
Count	24	23	25	23	26	27	31	30	31	30	30	30
Median	10 0	8 4	7·4	7 0	6 4	5 2	6·7	9·5	10·8	11·0	10·8	10·6
Mean	9 9	8·6	7 9	7 2	6 4	5 0	7 0	9·7	10 9	11 1	10·7	10·6

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

Characteristic · foF₂
Unit Mc
Month · August 1960

TABLE 12
Ionospheric Data
75°E Mean Time

Latitude : 10°2'N
Longitude : 77°5'E

12	13	14	15	16	17	18	19	20	21	22	23	Date
10 0	9 5	9 2	9 0	8 8	9 4	10 1	9 7	8 6	7 8	8 7	9 0	1
8 8	8 8	8 7	9 0	9 4	9 4	9 5	u9 4s	F	8 2F	9 0	u9 6s	2
9 4	9.4	9 7	10 6	10 8	11 5	12 3	11 3	10 3	9.3	9 6	9 7	3
8 9	8 6	8 4	8 6	8 9	9 5	9 8	10 0	9 3	8 6	9 1	9 7	4
9 0	9 3	10 0	10.8	11 0	11 6	11 0	10 4	u9 5F	u8 6F	8 1	8 8	5
8 2	8.6	9 0	9 6	10 6	10 8	11 3	10 5	9 5	8 8	8 4	8 2	6
C	C	C	9 2	9 0	9 2	9 6	10 2	9 2	9 0	9 0	9 4	7
8.3	7 9	8 1	8 6	8 9	9 0	9 4	9 4	8 1	8 2	8 4	7 8	8
9 6	10.4	10 8	12 4	11 9	12.2	12.2	13 0	14 0	10 4	8 2	8 0	9
9.4	9 6	9.7	9 8	10 4	11 4	11 0	9 6	F	F	F	u9 1F	10
10 6	10.7	10 1	10 2	10 2	10 4	10 9	10 5	9 8	8 6	F	F	11
10.9	10.7	11 3	12 2	12 5	12.2	11 4	11.4	11 4	11 8	11 5	11 4	12
10 6	10 4	10.4	10 2	10.1	9.7	9 5	8 0	F	F	F	F	13
10.8	10 8	11 3	11 6	12 6	12 4	11 7	10 8	u10.0F	u9 8F	F	11 3	14
10 3	10 6	10 4	10 6	11 1	11 2	11 3	9 9	F	F	F	F	15
11 2	11 6	11 6	11 6	11 4	11 1	10.7	10 1	F	F	F	F	16
13 8	12.6	u11 4wII	10 9	12 4	12 3	11.9	11.6	11 3	11 5	10 3	10 0	17
12 0	11 6	12 0	11 8	11.6	11 7	11 2	j10 2s	F	F	u10 3F	11 2	18
11 5	11 5	11.8	12 1	12.0	12 2	12 2	10 9	9 9	F	F	F	19
11 8	12 8	13 2	13 6	13 4	13.6	13 2	12 2	12 4	12 9	13.7	13.1	20
10 9	10 6	10 2	10 2	10 4	10 4	u9 9s	9 0	F	F	u9 0F	F	21
12 7	11 5	10.7	10.5	10.4	10 5	10 2	9 3	F	F	10 8	F	22
10.5	10 1	10 7	11 5	11 5	11 0	u10 5s	u9 4F	F	F	10 5	11 6	23
9 0	9 5	9 7	10.1	10 6	10.7	10 2	9.7	F	F	F	10.5F	24
11.3	11.6	12.2	12 4	13 4	14.0	14.1	12 7	u11.7s	FS	FS	11 4	25
9.1	9.6	9 8	10.4	10 6	10 9	11 1	u9.4F	u8 2F	F	F	F	26
9 9	10 3	10 8	11 1	11 8	11 8	12 7	11.2	F	F	F	F	27
j12 4RII	11.5	10 5	11 3	u12 0R	12.2	12.4	u11.7s	11 2	11 1	10 8	10.4	28
10 9	12 0	12 8	12.8	12 7	12 6	12 2	12.0	S	12.1	11 5	11.0	29
13.5	13 5	13.7	14 2	13 7	14 4	13.7	u11.8s	11 6	11.7	u12 3R	12 4	30
11 3	11.4	11 6	11 8	12 6	12.8	12.5	11.4	11.0	11 4	11 6F	11.6	31
30	30	30	31	31	31	31	31	19	18	20	22	Count
10 6	10.6	10 7	10 8	11 1	11 4	11 2	10 4	10 0	9 6	10 0	10.2	Median
10 6	10.6	10.7	10.9	11.2	11 4	11.3	10.5	10.4	10 0	10 0	10.2	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic foF₂
Unit : Mc.
Month · August 1960

TABLE 12—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	8 0	7 1	6 6	5 4	3 5	4 0	8 1	9 1	10 4	10 9	10 6	10 2
2	8 4	8 2	8 4	7 4	5 7	5 0	8 0	9 6	10 0	9 4	8 6	8 6
3	7 6	6 8	u6 1s	4 7	4 4	4 5	7 9	9 3	9 3	9 3	9 0	9 3
4	j9 9s	7 3	6 2	5 4	5 3	5 6	8 3	9 0	9 5	9 4	8 8	8 7
5	9 6	8 7	7 7	u5 1s	3 6	4 2H	7 8	9 4	10 1	9 8	9 0	9 1
6	8 2	7 6	7 4	6 6	5 1	4 0	7 2	9 1	9 6	8 8	8 4	8 2
7	8 0	7 4	6 0	5 2	4 0	4 0	7 0	8 7	9 5	C	C	C
8	8 1	7 6	u7 1s	6 6	5 8	5 5	8 2	9 8	10 2	9 8	8 6	8 4
9	u6 2s	u4 4F	F	F	F	4 1	8 0	9 8	10 8	10 4	9 2	9 4
10	5 8	j4 4RH	3 4	3 8	3 3	3 6	8 2	10 1	11 0	11 4	11 4	9 6
11	8 4	u7 7F	F	F	6 7	6 2	8 7	u11 3F	11 7	11 3	11 0	10 7
12	10 1	7 5	7 1	6 6	6 2	6 1	8 6	9 4	10 8	11 0	11 0	10 7
13	8 5	5 7	4 5	4 8	4 9	5 0	8 3	10 2	10 8	10 4	10 2	10 3
14	u10 6F	9 0	8 5	9 1	8 5	8 0	9 5	10 8	10 6	10 4	B	10 8
15	u10 6F	10 3	10 0	8 0H	6 8H	7 0	9 5	11 1	11 1	10 7	10 6	10 3
16	F	8 6	8 0	7 8	7 0	6 5	9 8	11 4	12 6	11 8	11 4	11 1
17	F	F	F	F	F	F	9 9	11 7	12 6	12 2H	13 4	14 3
18	9 0	7 0	6 2	6 4	6 9	7 2	8 4	11 2	12 1	12 0	12 0	11 8
19	F	F	F	u9 7s	7 2	4 8	8 8	11 2	12 0	11 7	11 6	11 8
20	F	C	u10 4c	F	F	8 1	10 8	12 0	12 8	13 8	u13 4R	12 4
21	11 4	10 6	10 3	10 3	7 9	4 7	8 8	11 5	11 6	10 2	10 7	11 0
22	F	F	10 3	9 4	7 3	6 4	9 4	11 6	12 0	12 7	13 2	13 1
23	12 0	11 3	10 3	9 1	7 2	4 7	8 5	10 7	11 7	11 4	10 8	10 6
24	11 3	10 2	9 6	8 4	5 5	4 3H	8 4	10 8	10 8	9 2	8 8	9 0
25	F	9 2	u9 5F	8 7	F	4 7	8 6	9 9	10 7	11 2	11 0	11 3
26	11 0	F	u8 3F	8 0	8 0	4 1	8 0	10 4	11 3	10 8	9 8	9 2
27	F	F	F	F	7 8	4 9	8 1	10 1	11 2	11 4	10 4	9 8
28	F	10 6F	F	8 0	F	F	u9 2s	10 7	12 0	12 2	12 9	12 8
29	10 0	u9 8s	9 0	u7 4s	6 0	4 5	8 1	10 0	10 8	9 9	8 0	9 8
30	9 8	8 2	6 9	6 5	5 6	6 1	9 2	11 2	11 8	C	12 8	13 5
31	10 6	u7 3s	5 4	4 2	3 5	4 0	8 0	10 6	12 0	12 2	11 7	11 3
Count	23	25	25	26	26	29	31	31	31	29	29	30
Median	9 6	7 7	7 7	7 0	5 9	4 8	8 4	10 4	11 0	10 9	10 7	10 6
Mean	9 3	8 1	7 4	7 0	5 9	5 2	8 6	10 4	11 1	10 9	10 6	10 6

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

Characteristic : foF₂
 Unit : Mc
 Month : August 1960

TABLE 12—*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
9.8	9.5	9.0	8.8	8.9	9.9	10.0	9.0	8.0	8.0	9.1	9.0	1
9.0	8.8	8.8	9.0	9.4	9.5	9.5	8.7	u8.2 _F	8.6	u9.4 _s	10.3	2
9.4	9.6	10.2	10.8	11.1	12.3	12.2	11.0	9.8	9.5	9.2	10.1	3
8.7	8.4	8.4	8.8	9.1	9.8	10.2	9.5	8.7	9.2	9.2	10.1	4
9.1	9.3	10.5	11.0	11.0	11.5	10.8	10.0	u8.8 _F	8.5	8.5	8.8	5
8.3	8.8	9.2	10.0	10.6	11.2	11.0	10.0	9.0	8.4	8.4	8.3	6
C	C	9.3	9.0	9.1	9.4	10.0	9.6	9.0	9.0	9.2	9.2	7
8.2	8.0	8.4	8.8	8.9	9.2	9.5	8.8	8.1	8.4	8.2	u7.2 _s	8
9.8	10.6	11.6	12.4	11.8	12.0	12.5	13.8	12.5	u9.2 _s	8.2	7.9	9
9.3	9.8	9.6	10.4	10.9	11.4	10.4	F	F	F	F	9.2 _F	10
10.6	10.4	10.2	10.2	10.2	10.2	10.6	10.1	9.4	8.0	F	F	11
11.0	11.0	11.6	12.3	12.4	11.6	11.4	11.2	11.5	12.0	11.2	10.9	12
10.5	10.4	10.2	10.2	10.0	9.6	8.8	F	F	F	F	F	13
11.0	11.0	11.2	12.1	12.5	12.1	11.6	u10.2 _F	F	u10.6 _F	F	11.2	14
10.5	10.5	10.5	11.0	11.0	11.4	10.8	8.7 _F	u7.8 _F	F	F	F	15
11.6	11.6	11.6	11.5	11.1	11.0	10.4	9.4 _F	F	F	F	u8.6 _F	16
13.2	12.4	10.3	11.8	12.5	12.3	11.8	11.4	11.4	10.9	10.0	9.5	17
11.7	11.6	12.0	11.6	11.7	u11.5 _s	10.6	u9.4 _s	F	F	F	11.6	18
11.5	11.7	12.1	12.0	12.0	12.4	11.7	10.2	F	F	F	F	19
12.3	13.0	13.3	13.6	13.6	13.6	12.6	12.3	12.4	13.2	13.6	12.5	20
10.7	10.4	10.1	10.2	10.4	10.3	9.3	8.6	F	F	u8.5 _F	9.7	21
12.2	10.8	10.5	10.7	10.5	10.3	9.9	F	F	F	F	F	22
10.3	10.2	11.1	11.4	11.3	10.7	10.2	F	F	10.3	10.8	11.7	23
9.2	9.4	9.8	10.3	10.7	10.7	10.3	u8.9 _F	F	F	F	F	24
11.4	11.9	12.2	12.8	13.8	14.4	13.4	12.1	u11.6 _s	F _s	F _s	11.4	25
9.3	u9.6 _s	10.0	10.4	10.8	11.0	10.6	9.0	F	F	F	F	26
10.0	10.6	10.8	11.4	11.7	12.2	12.1	10.3	F	F	F	F	27
11.5	11.2	10.9	11.6	u11.8 _s	12.7	12.4	11.6	11.0	11.2	10.6	10.2	28
11.7	12.6	12.8	12.7	12.8	12.5 _H	S	11.8 _s	u12.0 _s	u11.8 _s	11.3	10.9	29
13.7	13.7	13.8	14.1	14.1	14.3	12.8	11.8	11.7	11.7	12.9	12.6	30
11.5	11.6	11.6	12.0	12.7	12.7	11.8	10.8	11.0	11.4	11.5	12.1	31
30	30	31	31	31	31	30	27	19	19	18	23	Count
10.6	10.6	10.5	11.0	11.1	11.4	10.7	10.1	9.8	9.5	9.3	10.1	Median
10.6	10.6	10.7	11.1	11.2	11.4	11.0	10.3	10.1	10.0	10.0	10.1	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic · foF₁
 Unit : Mc
 Month .August 1960

TABLE 13
 Ionospheric Data
 75°E Mean Time

Latitude 10 2°N
 Longitude · 77 5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	A	L	L
2								L	L	L	L	L
3								L	L	L	u5 2L	L
4							L	L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	C	C	C
8								L	L	L	B	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	A
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 _{IT}	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	A	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							1	..
Median							.	.				
Mean						

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

45^I

Characteristic : foF₁
 Unit . Mc.
 Month, : August 1960

TABLE 13
 Ionospheric Data
 75° E Mean Time

Latitude : 10°2'N
 Longitude : 77°5'E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
L	L	L	L	L	L							4
L	L	L	L	L	L							5
L	L	L	L	L	L							6
C	C	C	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L _H	L _H	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	A	L	L							20
L	L	L	L	L	L							21
L	L _H	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.

45^I

Characteristic : foF₁
 Unit : Mc.
 Month : August 1960

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

Latitude : 10.2°N
 Longitude : 77.5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4							L	L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	C	C	C
8							L	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	B	L
15								L	L	L	L	L
16							A	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 _H	L	L
24							L	L _H	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	L
29								L	L	L	L	L
30								L	I	C	L	L
31							L	L	L	L	L	L
Count						
Median						
Mean						

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

Characteristic : foF₁
 Unit : Mc.
 Month : August 1960

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

Latitude : 10.2°N
 Longitude : 77 5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L	L							3
L	L	L	L	L								4
L	L	5 0	L	L								5
L	L	L	L	L								6
C	C	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								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 _H	L _H	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	A	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
..	..	1	..	..	.							Count
..	..	.	.	.	..							Median
.	.	..	..	..	.							Mean

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

Characteristic : foE
 Unit : Mc.
 Month : August 1960

TABLE 14
 Ionospheric Data
 75°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2							R	A	A	A	A	A
3								A	A	A	A	A
4								A	A	A	A	A
5							R	A	A	A	A	A
6								A	A	A	A	B
7								A	A	C	C	C
8								2.9	A	A	B	A
9								2.6	A	A	A	A
10								2.7	A	A	A	A
11							1 8	A	A	A	A	A
12								3.0H	3.3	A	A	A
13								A	A	A	A	A
14								3.0	A	A	A	B
15								A	A	A	A	A
16								A	A	A	A	A
17								A	A	A	A	A
18								A	A	A	A	A
19								A	A	A	A	A
20								A	A	A	A	A
21								A	A	A	A	A
22								u3 0R	3.5	R	A	A
23								A	A	A	A	A
24								A	A	A	A	A
25								2.7	A	A	A	A
26								u3 0A	A	A	A	A
27								2.8H	A	A	A	A
28								u2 7R	3.2H	R	A	A
29								2.8	A	A	A	B
30								2.8H	A	A	A	A
31								A	A	A	A	A
Count							1	12	3		..	..
Median							.	2.8	..		.	.
Mean							.	2.8	..	..	.	.

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

Characteristic . foE
 Unit : Mc.
 Month : August 1960

TABLE 14
 Ionospheric Data
 75°E Mean Time

Latitude · 10·2°N.
 Longitude : 77 5.

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

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

Characteristic : foE
 Unit : Mc
 Month : August 1960

TABLE 14—(Contd.)
 Ionospheric Data
 75°E Mean Time

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

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

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

Characteristic : foE
 Unit : Mc
 Month : August 1960

TABLE 14—(Contd.)
 Ionospheric Data
 75°E Mean Time

Latitude : 10 2° N.
 Longitude : 77.5° E.

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A	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	R	A							5
A	A	B	A	A								6
C	C	A	A	A								7
A	A	A	A	A								8
A	A	A	A	A	u2.4F							9
A	A	A	A	A								10
A	A	A	A	A	2.5							11
A	A	3.8	B	A	A							12
A	A	A	A	A	A							13
A	4.0	A	A	2.9								14
A	A	A	A	A	A							15
A	A	A	A	A								16
A	A	A	A	A								17
A	A	B	A	A								18
A	A	A	A	A	A							19
B	u4.2R	A	A	A								20
A	A	A	A	A								21
A	A	A	A	A								22
A	A	A	A	A								23
A	A	A	A	A								24
A	u4.0F	R	3.4	B	u2.3R							25
A	A	A	A	F								26
A	A	A	A	2.8								27
A	A	A	A	A								28
A	A	3.7	A	A								29
A	A	A	A	A								30
A	A	A	A	R								31
..	3	2	1	2	3							Count
..	.	..	..	..	..							Median
..	..	..	..	..	..							Mean

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

Characteristic foEs
Unit : Mc
Month : August 1960

TABLE 15
Ionospheric Data
75°E Mean Time

Latitude : 10°2'N
Longitude : 77°5'E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1		6.6		4.4			3.8	9.8	11.4	11.8	11.2	11.4
2							G	7.0	11.0	11.0	12.4	13.0
3							10.7	10.3	10.7	12.1	12.6	12.2
4						3.9	6.5	8.8	11.9	11.1	12.1	12.6
5							G	10.6 8s	10.6	11.9	11.8	12.8
6	4.3							10.8	12.0	13.0	12.0	12.0
7								9.8	12.0	C	C	C
8								6.6	10.0	12.0	B	12.2
9								4.6	12.6	11.0	12.6	12.6
10	7.0	2.7	5.0	2.2				6.2	9.0	11.8	12.2	13.0
11	3.0	4.6	2.0	3.4	4.2		G	9.0	11.4	10.7	6.8	11.2
12								G	12.4	8.7	11.6	11.6
13								9.0	9.6	11.4	12.4	12.4
14								8.4	11.2	11.0	12.2	12.2
15			6.8	6.4	2.8			7.8	10.7	11.0	11.7	11.6
16				5.4				12.4	11.4	11.6	11.6	11.0
17								8.7	12.6	8.0	11.8	16.6
18								8.8	11.0	11.0	12.4	11.6
19								12.0	10.2	10.8	12.0	12.4
20	10.7 2s	10.7 0s				4.6		8.4	10.3	10.6	11.5	11.7
21								8.4	10.8	11.0	12.6	12.7
22								G	G	G	11.7	11.8
23	4.0	10.6 6s	S				2.7	10.6 6s	11.8	11.3	12.6	12.7
24					9.0			8.6	10.8	12.3	12.4	12.8
25								G	10.9 6s	11.4	12.4	12.5
26	5.4							10.7 0s	10.8	11.6	12.5	12.4
27	2.8	3.0						G	10.0	11.0	12.2	13.0
28	4.0	6.0	2.0					G	G	G	10.0	11.0
29		C						6.0	9.2	11.4	12.6	9.0
30								G	8.2	10.0	13.2	10.8
31		4.2	3.6	3.6			2.8	9.0	8.0	10.8	12.0	12.2
Count	8	8	5	6	3	2	8	31	31	30	29	30
Median	4.2	5.3	3.6	4.0			2.8	8.4	10.8	11.0	12.2	12.2
Mean	4.7	5.1	3.9	4.2			5.3	8.6	10.7	11.1	11.9	12.2

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

Characteristic . foEs
Unit : Mc
Month : August 1960

TABLE 15—(Contd.)
Ionospheric Data
75°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.0	12.6	11.6	11.0	9.5	10.6	8.5	2.9	3.0	5.8	3.0		1
12.6	13.0	13.0	11.0	10.0	8.0	7.8	3.8					2
12.0	12.6	11.5	9.8	7.6	3.2	4.3						3
12.5	12.4	11.9	11.2	10.6	6.9							4
12.8	12.2	11.8	11.0	9.7	6.8	7.8	3.0			2.3		5
13.0	12.0	12.0	11.0	8.6	13.0	6.5	10.4					6
C	C	C	12.6	11.4	8.4	4.0						7
13.0	13.0	13.0	11.6	11.0	8.0							8
12.6	G	10.8	9.4	11.0	8.0	2.8	2.4				5.7	9
12.5	12.6	12.8	12.0	9.0	G						3.0	10
10.8	11.6	11.6	11.4	9.6	6.8				2.4	2.6	2.3	11
12.0	11.6	10.2	7.9	9.4	8.0			7.8	6.6			12
12.2	12.4	12.0	11.0	10.4	8.0				6.8			13
11.8	10.6	10.8	8.8	8.5	7.8							14
12.0	12.4	12.3	11.4	10.6	8.0							15
12.0	12.8	12.8	10.4	10.6	7.0							16
17.6	12.7	11.5	9.8	7.8								17
12.6	12.4	12.0	8.8	10.6	8.0							18
11.8	11.8	11.8	11.0	10.4	7.8	4.0				3.6	4.4	19
11.0	9.7	8.8	12.2	9.2	9.2	3.2			4.0	3.6		20
12.7	12.8	12.8	12.0s	11.2	8.3							21
11.6	11.5	12.1	11.8	9.4	7.4		4.3			3.6	3.1	22
13.0	12.6	12.8	11.4	10.6	8.6							23
12.6	12.6	12.6	12.0	10.2	7.5							24
12.5	12.2	10.6	G	G	G						2.7	25
12.4	13.0	12.8	12.0	10.4	8.0						1.9	26
12.6	13.0	12.0	11.0	9.0							3.8	27
12.8	12.0	11.0	11.0	7.0	8.0					2.6	3.8	28
17.0	8.0	10.4	6.6	9.2	7.0	4.4					5.0	29
11.0	12.0	13.0	12.0	8.6	8.8	5.0	5.6		2.7	4.2		30
11.8	12.0	12.0	10.4	9.4	7.0						5.0	31
30	30	30	31	31	29	11	7	2	6	8	11	Count
12.5	12.4	12.0	11.0	9.6	8.0	4.4	3.8	..	4.9	3.3	3.8	Median
12.6	12.1	11.8	10.8	9.7	7.9	5.3	4.6	..	4.7	3.2	3.7	Mean

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

Characteristic : foEs

TABLE 15—(Contd.)

Latitude : 10 2°N.

Unit : Mc

Ionospheric Data

Longitude : 77.5°E.

Month : August 1960

75°E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1				3.2			7.8	12.2	11.8	15.0	11.0	12.0
2							G	9.8	11.2	12.6	12.6	13.0
3						2.8	13.2	10.7	10.4	12.1	12.6	12.0
4					2.6	5.2	7.6	10.6	10.8	12.1	12.6	12.6
5							G	8.8	11.6	11.6	12.4	12.4
6	4.2						6.4	11.4	12.2	12.0	13.0	13.0
7							G	12.0	11.4	C	C	C
8							G	8.6	11.0	13.0	12.0	12.6
9							G	8.0	12.0	12.2	13.0	12.8
10		6.0	6.0				G	8.0	8.6	12.6	13.0	12.4
11	3.5	2.6	2.6	3.2			7.7	10.8	10.4	10.5	9.4	11.8
12	5.0	4.6	4.6					G	7.8	11.4	12.2	11.6
13							G	9.6	11.7	12.0	12.0	12.0
14		4.6		6.6			G	9.6	11.0	11.4	B	11.4
15			3.8		2.4		4.0	9.4	11.6	11.8	12.6	12.0
16				6.8			10.6	12.2	11.6	12.0	12.3	11.6
17								12.2	G	12.4	G	17.8
18							7.4	10.4	11.0	12.2	12.4	12.2
19	3.3						u6.6s	9.8	10.6	12.0	12.0	12.6
20	u4.8s							9.3	9.8	11.6	11.7	11.4
21		2.0					G	10.2	11.0	12.0	12.5	12.6
22								G	G	11.6	11.6	12.0
23		4.6					7.6	10.7	11.6	11.4	12.6	12.8
24							G	u9.1s	11.6	12.9	12.8	12.2
25							G	G	10.8	12.4	11.8	11.8
26	3.0						G	u9.0s	11.1	12.4	12.0	12.6
27	2.2	2.0					G	8.0	11.0	12.0	13.0	12.2
28	3.6	2.4					G	6.0	6.2	9.0	10.3	12.6
29			5.0				G	8.4	11.0	12.8	13.0	20.0
30								G	10.0	C	13.6	12.2
31	u7.0s	3.6					7.0	9.0	7.0	11.2	12.0	13.0
Count	9	9	5	4	2	2	26	31	31	29	29	30
Median	3.6	3.6	4.6	..	..	..	G	9.4	11.0	12.0	12.4	12.3
Mean	4.1	3.6	4.4	..	..	.	7.8	9.8	10.6	12.0	12.2	12.7

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

Characteristic : foEs
 Unit : Mc
 Month : August 1960

TABLE 15—(Concl'd.)
 Ionospheric Data
 75°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.4	11.6	11.8	9.8	9.6	11.0	S		4.5	4.4			1
14.0	13.2	12.0	11.6	9.4	9.2	6.5		2.2				2
12.4	12.0	12.1	7.6	4.1	3.7	4.3						3
12.4	12.6	11.6	11.7	8.6						2.1		4
11.6	12.0	11.8	10.8	6.8	8.5	4.8				2.1		5
12.8	12.0	11.0	9.0	14.0	8.6	9.0						6
C	C	13.0	12.8	9.0	7.0	4.2						7
12.6	12.0	11.4	12.0	9.0								8
11.0	7.8	8.8	10.0	8.0		2.4				3.0	3.4	9
12.6	12.0	11.6	10.5	7.5				1.9			4.6	10
12.0	12.0	11.3	10.8	7.8	G	2.5			3.0	2.2		11
11.6	9.8	G	9.4	8.2	6.8		2.8	8.6				12
12.4	12.4	11.2	11.6	7.8	6.7			4.4	4.4			13
10.8	10.6	9.4	9.0	6.0	6.4					2.7		14
12.4	12.4	11.4	11.0	7.8	7.6							15
11.2	12.5	11.8	11.0	7.8								16
13.6	12.0	10.8	9.0	3.8	4.8						4.4	17
12.2	12.0	9.4	10.6	8.0								18
12.0	12.0	11.3	10.6	8.0	7.0	3.0			3.8		8.8	19
9.0	9.6	12.4	11.0	10.4	u6.8s				4.4			20
12.6	12.5	11.6	u12.0s	u9.4s	6.7							21
11.8	12.6	11.5	10.9	8.2		2.3			2.4	4.6	2.9	22
12.5	12.4	12.3	12.0	8.6	u7.2s							23
12.4	12.4	12.7	10.8	7.9								24
12.4	11.0	7.8	G	G	G						u8.9s	25
12.7	13.0	11.8	11.2	8.8	6.8						3.6	26
13.0	12.0	12.0	10.6	7.0	6.4						3.6	27
12.2	12.0	11.0	9.0	8.2	9.0					4.4	4.2	28
6.0	9.0	7.2	10.4	8.0			2.4					29
12.6	12.2	10.0	12.0	8.0	8.0	5.4			u8.0s	4.0		30
13.0	12.4	10.6	9.0	8.0	2.8							31
30	30	31	31	31	22	9	3	5	7	8	9	Count
12.4	12.0	11.4	10.8	8.0	6.8	4.3	.	4.4	4.4	2.8	4.2	Median
12.0	11.7	11.1	10.6	8.1	7.0	4.7	.	4.3	4.3	3.1	4.9	Mean

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

Characteristic : fbEs
 Unit : Mc
 Month : August 1960

TABLE 16
 Ionospheric Data
 75° E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1		1.8		1.9				3.2	4.8	6.4	4.0	4.0
2							G	2.8	3.3	3.6	3.8	4.0
3							3.3	3.4	3.3	3.6	3.8	4.0
4						1.9	2.5	2.7	3.3	3.6	3.9	4.0
5							G	2.8	3.2	3.7	3.9	4.1
6	1.8						G	8.0	3.2	4.0	3.9	
7								2.8	3.4	C	C	C
8								2.8	3.3	3.8	B	4.3
9								2.8	3.8	3.8	3.9	4.0
10	2.3		1.5	1.5				3.0	3.4	3.8	4.0	4.2
11	1.8	2.2	1.4	1.7	1.7		G	3.2	5.0	3.8	4.0	4.2
12								G	3.6	4.0	4.2	4.4
13								3.0	3.6	3.9	4.2	4.3
14								3.0	3.6	3.8	4.1	4.7
15			1.5		1.5			3.0	3.6	3.9	4.2	4.5
16				1.6				3.6	4.0	3.9	4.2	4.5
17								3.0	3.8	4.1	4.2	6.2
18								3.0	3.7	4.0	4.2	4.4
19		2.6						3.0	3.6	4.0	4.3	4.4
20	2.2							3.0	3.6	4.0	4.2	4.4
21								3.0	3.6	4.0	4.2	4.3
22								G	G	G	4.3	4.4
23							2.0	2.9	3.4	3.8	4.2	4.2
24								2.8	3.3	3.8	4.1	4.3
25								G	3.3	3.8	4.0	4.0
26	2.4							2.8	3.4	3.8	4.1	4.2
27	1.2							G	3.3	3.8	4.0	4.2
28		3.0	1.4					G	G	G	4.0	4.6
29								2.9	3.3	3.8	3.8	
30								G	3.3	3.8	4.4	4.0
31								2.9	3.2	3.7	4.0	4.0
Count	6	4	4	4	2	1	6	31	31	30	29	28
Median	2.0	..	..	..	..	..	G	2.9	3.4	3.8	4.1	4.2
Mean	2.0	..	..	..	..	..	..	3.0	3.6	3.9	4.1	4.3

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

Characteristic : fbEs
 Unit : Mc
 Month : August 1960

TABLE 16—
 Ionospheric Data
 75° E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.0	4.0	4.0	3.7	3.2	2.8	2.6	1.4	1.5	2.2	2.0		1
4.0	4.1	3.9	3.6	3.3	3.0	2.6	2.1					2
4.0	4.0	3.7	3.6	3.3	3.1	2.2						3
4.0	4.1	3.9	3.7	3.2	2.8							4
4.2	4.1	4.0	3.6	3.4	2.9	3.1	2.0			1.7		5
4.1	4.0	3.8	3.6	3.2	6.0		2.2					6
C	C	C	3.6	3.2	2.7	2.0						7
4.4	4.2	4.0	3.7	3.4	3.0							8
4.2	G	4.0	3.8	3.2	2.8	2.2	1.7				2.5	9
4.4	4.2	4.0	3.8	3.4	G							10
4.3	4.2	4.0	3.8	3.4	2.8					1.7	1.8	11
4.4	4.2	4.1	3.8	3.6	3.0		3.2	2.5				12
4.3	4.4	4.1	3.9	3.4	2.9			1.9				13
4.4	4.4	4.3	3.9	3.4								14
4.4	4.5	4.3	4.0	3.4	3.0							15
4.7	4.6	4.6	3.9	3.6								16
5.0	4.3	4.0	4.0	3.6								17
4.5	4.4	4.2	4.0	3.4	2.9							18
4.4	4.5	4.2	4.0	3.5	3.2					1.7	1.7	19
4.5	4.4	4.2	6.2	4.0	4.4				2.0	2.4		20
4.4	4.2	4.2	3.8	3.4	2.8							21
4.3	4.2	4.0	3.8	3.4	2.9					1.9		22
4.4	4.2	4.0	3.7	3.3	2.8							23
4.3	4.1	4.0	3.7	3.2	2.7							24
4.2	4.1	3.9	G	G	G							25
4.4	4.2	4.0	3.8	3.2								26
4.2	4.2	4.0	3.8	3.4							2.2	27
4.2	4.0	4.0	3.8	3.2	2.8					1.7	1.7	28
5.5	4.0	4.0	3.6	3.2	2.7						1.6	29
4.0	4.0	4.0	4.6	3.4	3.0	2.3	2.1		2.0	1.9		30
4.2	4.0	3.8	3.6	3.2							2.2	31
30	30	30	31	31	25	7	6	2	5	8	7	Count
4.3	4.2	4.0	3.8	3.4	2.9	2.3	2.0	..	2.0	1.8	1.8	Median
4.3	4.2	4.0	3.9	3.3	3.1	2.4	1.9	..	2.1	1.9	2.0	Mean

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

Characteristic : fbEs
Unit : Mc
Month : August 1960

TABLE 16—(Contd.)
Ionospheric Data
75° E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1				1.5			3.1	4.0	4.6	5.4	3.9	4.0
2							G	3.0	3.4	3.7	4.0	4.1
3							4.4	3.2	3.5	3.7	3.9	4.0
4						2.0	2.5	3.1	3.4	3.7	4.0	4.0
5							G	3.0	3.5	3.7	4.0	4.2
6	2.0						2.4	3.3	3.8	3.8	4.0	4.2
7							G	3.2	3.5	C	C	C
8							G	3.0	3.7	3.9	4.4	4.4
9							G	3.1	3.6	3.8	4.0	4.0
10		2.0	2.0				G	3.2	3.6	4.0	4.2	4.2
11	1.6	1.4	1.5	1.7			2.6	3.6	3.8	3.9	4.2	4.2
12	2.0	2.4	1.8				G	3.2	3.8	4.0	4.2	4.4
13							G	3.2	3.7	4.0	4.4	4.3
14		2.2		2.0			G	3.3	3.8	4.1	B	4.6
15			1.6				3.0	3.3	3.8	3.9	4.4	4.4
16				1.8			6.0	4.0	3.8	4.1	4.4	4.6
17								3.2	G	4.2	G	5.2
18							2.7	3.2	3.8	4.4	4.3	4.6
19							2.6	3.4	3.8	4.1	4.2	4.5
20	2.2							3.3		4.1	..	4.6
21		1.8					G	3.3	3.8	4.1	4.2	4.4
22							G	G	G	4.0	4.3	4.4
23		1.7					2.6	3.1	3.8	3.9	4.2	4.3
24							G	3.1	3.6	4.0	4.1	4.2
25							G	G	3.6	4.0	4.1	4.1
26							G	3.1	3.6	4.0	4.1	4.2
27		1.5					G	3.0	3.6	3.8	4.2	4.3
28							G	..	..	4.0	4.0	4.8
29							G	3.1	3.5	3.8	4.2	6.4
30							G	G	3.5	C	4.4	4.2
31							2.7	3.2	3.6	3.8	4.0	4.2
Count	4	7	4	4	..	1	26	30	29	29	28	30
Median	..	1.8	..	..	..	..	G	3.2	3.6	4.0	4.2	4.3
Mean	..	1.8	..	..	..	..	3.1	3.2	3.7	4.0	4.2	4.4

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

Characteristic : f_oE_s
 Unit : Mc
 Month : August 1960

TABLE 16—(Concl.)
 Ionospheric Data
 75° E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.0	4.0	3.8	3.4	3.0	3.2	1.8		2.2	2.2			1
4.0	4.0	3.8	3.5	3.4	3.2	2.4		2.1				2
4.0	3.9	3.7	3.5	3.7	2.7	2.2						3
4.0	4.0	3.8	3.4	3.0								4
4.2	4.1	3.8	3.5	3.1	3.7	2.6						5
4.1	4.2		3.4	6.0	2.8	3.0						6
C	C	3.8	3.4	3.0	..	2.4						7
4.2	4.1	4.0	3.6	3.2								8
4.2	4.0	3.8	3.6	3.1							2.0	9
4.3	4.0	3.8	3.6	3.2							1.7	10
4.2	4.2	3.9	3.5	3.1	G	1.5			1.5			11
4.3	4.2	G	..	3.3	2.6		2.0	2.4				12
4.3	4.2	3.9	3.6	3.2	2.5			1.6	2.0			13
4.5	4.2	4.1	3.7							1.8		14
4.5	4.2	4.0	3.6	3.3	2.8							15
4.4	4.5	4.2	3.6	3.3								16
4.3	4.2	4.0	3.8	3.3							1.8	17
4.8	4.4		3.8	3.2								18
4.4	4.4	4.1	3.8	3.4	2.8	2.6			2.3		2.3	19
..	4.2	5.6	4.2	4.0	3.6				2.2			20
4.3	4.2	4.0	3.6	3.1	2.4							21
4.4	4.2	4.0	3.6	3.1			1.8		1.4			22
4.3	4.2	4.0	3.5	3.1	2.3							23
4.3	4.1	3.8	3.5	3.0								24
4.3	4.0	4.0	G	G	G						3.0	25
4.2	4.2	3.9	3.5	3.0							1.4	26
4.2	4.0	3.8	3.5	3.2							2.1	27
4.1	4.0	4.0	3.5	3.0	2.6					1.5	1.7	28
4.4	4.1	3.8	3.5	2.8			2.1					29
4.2	4.0	4.2	4.4	3.0	2.7	1.8			3.2			30
4.2	3.9	3.7	3.4	3.0	2.2							31
29	30	29	30	30	17	9	3	4	7	2	8	Count
4.3	4.2	3.9	3.5	3.1	2.7	2.4		..	2.2	..	1.9	Median
4.3	4.1	4.0	3.6	3.3	2.8	2.3	..	..	2.1	..	2.0	Mean

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

Characteristic : fmin
Unit : Mc
Month : August 1960

TABLE 17
Ionospheric Data
75°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	1.9	1.5	1.6	1.6	1.8	1.5	2.0	1.7	2.3	2.8	2.6	2.8
2	1.7	1.7	1.5	1.2	1.2	1.4	1.5	1.6	1.6	2.2	2.6	2.6
3	1.3	1.8	1.3	1.6	1.3	1.4	1.4	1.5	1.9	2.4	2.3	2.6
4	1.7	1.5	1.3	1.4	1.7	1.4	1.8	1.5	1.9	2.2	2.7	2.5
5	1.3	1.7	1.2	1.3	1.3	1.3	1.6	1.4	1.9	2.2	2.3	2.8
6	1.4	1.3	1.7	1.2	1.5	1.4	2.0	1.6	1.8	2.4	2.5	4.6
7	1.2	1.3	1.2	1.3	1.7	1.3	2.2	1.4	1.7	C	C	C
8	1.4	1.5	1.2	1.8	1.7	1.3	2.2	1.6	2.2	2.6	6.2	3.1
9	1.0	1.2	1.2	1.2	1.2	1.2	2.2	1.8	2.4	2.4	2.6	2.7
10	1.5	1.6	1.2	1.3	1.5	1.6	2.2	1.7	2.2	2.6	2.6	2.9
11	1.6	1.2	1.2	1.0	1.4	1.5	1.7	1.7	4.2	3.0	2.9	3.1
12	2.0	2.1	2.0	1.9	2.1	2.2	2.4	2.2	2.9	3.1	3.4	3.1
13	1.4	1.6	1.4	1.4	1.2	1.3	1.1	2.1	2.5	2.9	3.0	3.3
14	1.7	1.7	1.8	1.5	1.8	1.5	2.2	2.0	2.5	2.8	3.2	4.6
15	1.6	1.3	1.5	1.3	1.5	1.7	2.2	1.7	2.2	2.7	2.9	3.6
16	1.3	1.2	1.2	1.4	1.7	1.8	2.0	2.0	2.4	3.0	2.9	3.2
17	1.4	1.6	1.6	1.7	1.8	1.7	2.2	1.8	2.3	2.4	2.8	2.8
18	1.7	1.5	1.6	1.6	1.9	1.8	2.2	2.3	2.6	2.8	3.0	3.1
19	1.8	2.1	2.0	1.8	1.5	1.4	2.2	1.9	2.3	2.6	2.8	3.2
20	1.7	2.8	2.4	2.4	1.7	1.7	2.3	2.0	2.5	3.2	3.2	3.5
21	2.1	1.9	2.0	1.5	1.5	1.6	2.2	1.8	2.4	3.2	3.0	3.0
22	2.2	1.7	2.1	1.8	1.8	1.6	2.3	2.2	2.8	3.1	3.2	3.3
23	1.5	1.5	1.7	1.9	1.6	1.6	1.6	1.6	2.2	2.5	2.7	3.0
24	1.8	1.6	1.7	1.5	1.7	1.6	2.3	1.7	2.1	2.5	2.8	3.1
25	1.4	1.1	1.1	1.1	1.3	1.3	2.0	1.6	1.9	2.5	2.8	3.0
26	1.9	2.0	1.5	1.1	1.3	1.3	2.2	1.6	2.1	2.3	2.8	3.0
27	1.1	1.6	1.5	1.6	1.5	1.6	2.2	1.7	1.7	2.6	2.6	2.8
28	1.6	1.5	E	1.5	1.4	1.7	2.0	2.3	2.1	2.8	2.6	3.2
29	1.5	C	1.6	1.5	1.5	1.7	2.0	1.9	1.9	2.5	2.4	4.6
30	2.2	1.5	1.6	1.4	1.2	1.4	2.2	1.9	2.1	2.6	2.6	2.6
31	2.4	2.3	2.1	1.5	1.3	1.4	1.7	1.6	2.0	2.5	2.6	2.6
Count	31	30	31	31	31	31	31	31	31	30	30	30
Median	1.6	1.6	1.5	1.5	1.5	1.5	2.2	1.7	2.2	2.6	2.8	3.1
Mean	1.6	1.6	1.6	1.5	1.5	1.5	2.0	1.8	2.2	2.6	2.9	3.1

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

Characteristic fmin
Unit · Mc
Month : August 1960

TABLE 17—Contd.
Ionospheric Data
75°E Mean Time

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

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

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

Characteristic : fmin
Unit : Mc
Month : August 1960

TABLE 17—(Contd.)
Ionospheric Data
75°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.7	1.7	1.5	1.4	1.6	1.6	1.8	1.9	2.2	2.5	2.4	2.7
2	1.6	1.7	1.2	1.2	1.3	1.5	1.3	1.6	2.3	2.3	2.7	2.8
3	2.0	1.5	1.7	1.5	1.3	1.4	1.3	1.7	2.0	2.3	2.6	2.8
4	1.5	1.5	1.7	1.5	1.4	1.5	1.6	1.6	2.2	2.2	2.5	2.5
5	1.4	1.2	1.3	1.3	1.5	1.4	1.8	1.5	2.1	2.3	2.8	3.0
6	1.5	1.6	1.5	1.5	1.6	1.4	1.6	1.4	2.5	2.5	2.8	2.8
7	1.3	1.5	1.3	1.4	1.3	1.4	1.6	1.6	2.2	C	C	C
8	1.5	1.3	1.7	1.6	1.2	1.7	1.4	1.9	2.7	2.4	4.2	3.6
9	1.0	1.1	1.2	1.3	1.1	1.4	1.6	1.7	2.2	2.4	2.6	3.0
10	1.5	1.2	1.2	1.5	1.7	1.6	1.8	2.2	2.3	2.4	2.8	3.0
11	1.3	1.4	1.6	1.4	2.3	1.7	1.7	2.4	3.0	2.8	3.0	3.1
12	1.8	1.9	1.4	2.2	1.8	2.1	2.4	2.5	2.8	2.8	3.0	3.2
13	1.7	1.5	1.3	1.4	1.4	1.3	2.1	2.2	2.7	2.9	3.6	3.2
14	1.3	1.8	1.5	1.5	1.4	1.6	2.0	2.2	2.6	2.9	B	3.7
15	1.6	1.4	1.5	1.4	1.4	2.0	2.0	2.1	2.5	2.9	4.2	3.2
16	1.4	1.1	1.3	1.8	1.8	1.6	1.9	2.2	2.6	2.8	3.1	3.3
17	1.7	1.6	1.6	1.7	1.8	2.1	3.0	1.9	2.5	2.7	3.2	3.1
18	1.6	1.5	1.9	1.8	1.6	1.5	1.6	2.3	2.8	3.4	3.0	3.6
19	2.2	2.2	2.0	1.4	1.4	1.6	1.8	2.2	2.6	2.8	3.0	3.0
20	2.2	3.0	2.2	2.0	2.1	2.1	2.8	2.2	4.0	3.2	4.6	4.0
21	2.2	1.5	1.4	1.2	1.6	1.8	1.9	2.2	2.5	3.2	3.0	3.1
22	2.3	1.6	1.9	1.7	1.8	1.7	2.8	2.6	3.0	3.1	3.3	3.4
23	1.5	1.4	1.9	1.6	1.3	1.7	1.6	2.0	2.4	2.8	3.0	3.1
24	1.7	1.4	1.8	1.6	1.9	2.0	1.7	1.8	2.2	2.6	3.2	3.1
25	1.1	1.1	1.1	1.0	1.3	1.5	1.5	1.8	2.3	2.7	3.0	3.0
26	2.1	1.5	1.3	1.4	1.1	1.4	2.5	1.8	2.2	2.6	2.8	3.1
27	1.6	1.1	1.6	1.5	1.5	1.6	1.6	1.6	2.0	2.6	3.0	3.0
28	1.5	1.4	1.4	1.6	1.6	1.8	2.3	2.0	2.4	2.8	3.0	2.8
29	1.5	1.6	1.4	1.7	1.6	1.7	1.8	1.9	2.2	2.4	3.4	2.6
30	1.7	1.8	1.4	1.5	1.3	1.8	2.4	1.9	2.2	C	2.6	2.6
31	2.2	1.8	1.7	1.3	1.5	1.5	1.7	1.9	2.2	2.4	2.6	3.2
Count	31	31	31	31	31	31	31	31	31	29	29	30
Median	1.6	1.5	1.5	1.5	1.5	1.6	1.8	1.9	2.4	2.7	3.0	3.1
Mean	1.6	1.5	1.5	1.5	1.5	1.6	1.9	2.0	2.5	2.7	3.0	3.1

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

Characteristic : fmin
Unit : Mc
Month : August 1960

TABLE 17—(Contd.)
Ionospheric Data
75°E Mean Time

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

	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
	3.2	2.7	2.4	2.4	1.8	1.4	1.3	1.2	1.3	1.1	2.1	1.6	1
	2.6	2.8	2.6	2.6	2.3	2.2	1.4	2.2	1.4	1.9	1.7	1.3	2
	2.6	2.7	2.8	2.3	1.9	1.9	1.3	1.6	1.6	1.3	1.5	1.6	3
	2.8	2.8	2.6	2.4	2.4	2.3	1.8	1.2	1.3	1.2	1.4	1.3	4
	2.8	3.2	2.8	2.3	2.2	1.7	1.2	1.8	1.7	2.0	1.5	1.3	5
	3.1	3.4	4.0	2.3	2.0	1.8	1.4	2.0	1.8	2.0	1.2	1.3	6
C	C	C	2.6	2.4	2.1	2.4	1.4	1.5	1.8	1.8	1.6	1.3	7
	3.2	3.0	2.4	2.6	2.4	2.4	1.6	1.3	1.5	1.6	1.5	1.1	8
	2.9	2.8	2.8	2.9	2.5	2.0	1.8	1.5	1.3	1.3	1.9	1.5	9
	3.0	2.8	2.6	2.6	2.4	2.3	1.6	1.5	1.5	1.6	1.3	1.4	10
	3.2	2.9	2.8	2.5	2.2	1.9	1.3	1.4	1.4	1.1	1.7	2.0	11
	3.3	3.2	3.2	3.9	2.6	2.2	1.5	1.4	1.5	1.5	1.6	1.4	12
	3.1	2.9	2.9	2.4	2.3	1.8	1.3	1.2	1.2	1.4	2.0	2.0	13
	3.5	3.2	2.9	2.6	2.6	2.5	1.5	1.7	1.8	2.0	1.6	1.5	14
	3.4	3.0	3.0	2.4	2.1	1.6	1.6	1.8	1.7	1.7	1.8	1.7	15
	3.2	3.2	2.9	2.4	2.2	2.6	1.5	1.4	1.2	1.5	1.6	1.5	16
	3.2	3.2	3.0	2.5	2.4	2.5	1.4	1.5	1.5	1.4	1.7	1.6	17
	3.4	3.0	4.0	2.5	2.4	2.6	1.3	1.5	1.5	1.6	1.9	1.5	18
	3.3	3.2	2.8	2.4	1.8	1.7	1.5	1.7	1.6	1.2	1.3	1.5	19
	5.0	3.0	2.8	2.4	2.2	1.7	1.5	1.5	1.4	1.7	2.1	2.2	20
	2.8	3.0	2.6	2.2	2.2	2.1	1.4	1.3	1.7	1.5	2.3	2.2	21
	3.3	2.8	2.8	2.8	2.3	2.4	1.4	1.6	1.7	1.2	1.5	1.5	22
	3.1	3.0	2.9	2.5	2.3	2.0	1.4	1.3	1.4	1.6	1.4	1.4	23
	3.1	2.7	2.5	2.4	2.2	2.3	1.3	1.5	1.4	1.3	1.2	1.2	24
	3.2	3.1	2.6	2.4	3.2	2.1	2.2	1.6	1.6	1.5	1.6	1.6	25
	3.0	3.0	2.8	2.6	2.3	2.3	1.3	1.4	1.5	1.3	1.5	1.2	26
	3.2	3.0	3.0	2.5	2.4	2.4	1.5	1.4	1.6	1.6	1.9	1.5	27
	3.0	2.8	2.6	2.6	2.6	1.8	2.4	1.8	1.7	1.7	1.3	1.3	28
	2.1	2.4	3.2	2.2	2.2	2.2	2.5	1.6	1.8	1.5	1.8	1.7	29
	2.6	2.2	2.8	2.4	2.0	1.5	1.5	1.6	1.8	1.5	2.2	2.6	30
	3.2	2.8	2.8	2.4	2.4	1.9	1.7	1.4	1.5	1.8	1.5	1.6	31
	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	Count
	3.2	3.0	2.8	2.4	2.3	2.1	1.5	1.5	1.5	1.5	1.6	1.5	Median
	3.1	2.9	2.9	2.5	2.3	2.1	1.5	1.5	1.5	1.5	1.7	1.6	Mean

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

Characteristic : h'F₂
 Unit : Km.
 Month : August 1960

TABLE 18
 Ionospheric Data
 75°E Mean Time

Latitude 10°2' N.
 Longitude 77°5' E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	A	L	L
2								L	L	L	L	L
3								L	L	L	U350L	L
4							L	L	L	L	L	L
5								L	L	L	U340L	L
6								L	L	L	L	L
7								L	L	C	C	C
8								L	L	L	B	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	A
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							2	..
Median						
Mean						

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

Characteristic : h'F₂
 Unit : Km
 Month : August 1960

TABLE 18
 Ionospheric Data
 75°E Mean Time

Latitude 10.2° N.
 Longitude 77.5° E.

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	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
C	C	C	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L _H	L _H	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	A	L	L							20
L	L	L	L	L	L							21
L	L _H	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 : August 1960

TABLE 18 -(Contd.)
 Ionospheric Data
 75 E Mean Time

Latitude 10 2' N
 Longitude 77 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0810	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	L
6								L	L	L	L	L
7								L	L	L	L	L
8							L	L	L	G	G	G
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	L
15								L	L	L	L	L
16								L	L	L	L	L
17							A	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	L
25								L	L	L	L	L
26								L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	L
29								L	L	L	L	L
30								L	L	G	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 : August 1960

TABLE 18—(Concl.)
 Ionospheric Data
 75° E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L	L							3
L	L	L	L	L								4
L	L	340	L	L								5
L	L	L	L	L								6
C	C	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								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 _H	L _H	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
..	..	1	..	..	..							Count
..	..	..	..	.	..							Median
..	..	..	..	..	..							Mean

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

Characteristic : h'F
Unit : Km
Month : August 1960

TABLE 19
Ionospheric Data
75°E Mean Time

Latitude 10.2°N.
Longitude 77 5°E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	245	255	240	250	235	245	255	235	A	A	215	205
2	260	260	260	250	240	240	275	240	230	220	200	200
3	235	250	245	250	240	240	u280A	u260A	230	220	220	210
4	260	235	250	265	260	275	265	240	230	220	210	205
5	250	245	230	225	230	240	270	240	220	200	205	200
6	270	260	260	240	220	220	260	240	210	220	200	B
7	240	240	220	220	220	230	260	240	225	C	C	C
8	280	280	280	260	240	240	260	240	230	220	B	200
9	360	400	u460F	440F	300	240	270	240	240	240	210	205
10	300	340	380	340	260	260	250	230	220	215	200	205
11	300	340	380	380	330	245	265	u245A	B	220	200	200
12	235	240	260	265	250	235	250	240	230	220	205H	215
13	225	225	255	270	290	310	275	240	225	220	210	215
14	265	240	250	240	240	225	275	245	225	210	210	u225B
15	265	280	265	320	375	300	270	240	225	215	215	200
16	230	220	240	240	230	225	260	u240A	235	210	205	200
17	u420F	u410F	u380F	F	F	u360F	245	245	240	230	225	A
18	380	410	420	365	300	300	270	245	230	220	220	220
19	285	260	240	235	220	210	265	245	225	220	215	210
20	310	250	260	270	295	260	275	245	230	220	215	200
21	280	290	300	260	235	205	265	250	230H	230	215	215
22	290	u280F	u300F	265	225	225	260	250	240	225	215	215
23	250	255	270	260	220	205	250	240	205	220	215	200
24	260	250	260	245	215	220	265	220H	220	205	195	190
25	u270F	255	245	230	210	205	250	235	205H	200	200	180H
26	275	260	255	260	240	205	260	240	220	200H	195H	195H
27	275	260	260	255	230	210	240	235	210	200	200	190
28	280	A	280	240	260	240	250	230	220	220	220	A
29	320	C	260	245	250	240	260	240	230	220	210	B
30	290	310	320	370	340	300	260	250	235	230	A	230
31	240	230	240	250	240	245	270	250	225	215	210	210
Count	31	29	31	30	30	31	31	31	29	29	28	26
Median	270	260	260	260	240	240	260	240	225	220	210	205
Mean	280	275	285	275	255	245	260	240	225	215	210	205

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

Characteristic : h'F
Unit : Km.
Month : August 1960

TABLE 19—(Contd.)
Ionospheric Data
75°E Mean Time

Latitude 10°2'N
Longitude 77°5'E.

12	13	14	15	16	17	18	19	20	21	22	23	Date
200	195 _{II}	200	210 _{II}	215	245	270	315	365	335	305	280	1
200	200	205	210	235	260	280	340	320	280	300	280	2
210	205	210	220	230	260	280	315	F	340	320	300	3
200	200	200	210	225	240	280	320	350	320 _F	280	265	4
200	205	200	220	225	240	280	320	F	u360 _F	350	300	5
200	220	210	220	220	A	260	295	300	295	300	270	6
C	C	C	200	200	240	280	305	310	300	300	280	7
220	210	205	205	230	260	275	320	380	320 _F	340	350	8
200	200	200	200	225	260	270	265	250	240	260	265	9
200	220	200	220	220	260	300	410	440	420	340	300	10
200 _{II}	210	205	210	235	255	280	325	375	380	u385 _F	300	11
210	215	210	220	240	260	285	u330 _F	u310 _F	270	240	240	12
215	215	210	210	225	255	290	395	F	F	285	310	13
210	215	210	200	220	245	280	360 _F	u400 _F	350 _F	u300 _F	275	14
205	210	200 _{II}	215	225	250	280	400	F	u425 _F	F	u320 _F	15
210	215	210 _{II}	205	215	255	280	400	u290 _F	F	u385 _F	u380 _F	16
A	205	210	220	240	255	285	335	325	340	350	F	17
210	220	220	225	235	260	285	F	F	F	u325 _F	305	18
210	215	220	220	230	260	295	395	F	F	300	340	19
u200 _n	220	220	A	260	280	300	340	F	300	300	295	20
220	210	220	220	225	260	300	400	F	F	u285 _F	320	21
205	205	205	220	225	250	290	395	F	360	F	240	22
205	215	215	220	225	255	285	350	u385 _F	340	285	280	23
200	215	205	220	225	245	280	360	F	F	F	u280 _F	24
200	200	200 _{II}	215	230	245	275	325	F	F	260	275	25
u200 _c	200	205	220	225	250	280	340	F	F	F	F	26
200	200	200	210	220	240	280	350	360 _F	340 _F	320 _F	260 _F	27
220	220	220	240	240	265	280	310	330	300 _F	320	340	28
A	A	230	240	250	260	280	300	290	280	280	280	29
225	230	230	A	255	270	280	340	330	310	280	260	30
220	220	220	220	240	260	280	330	340	280 _F	260	250	31
28	29	30	29	31	30	31	30	19	23	27	29	Count
205	210	210	220	225	255	280	340	330	320	300	280	Median
205	210	210	215	230	255	280	345	340	325	305	290	Mean

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

Characteristic : h'F
Unit : Km.
Month : August 1960

TABLE 19—(Contd.)
Ionospheric Data
75°E Mean Time

Latitude 10°2'N.
Longitude 77°5'E'

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	240	245	245	245	240	280	u260A	240	215	A	205	210
2	260	260	260	240	240	265	260	240	220	210	205	200
3	235	250	250	240	235	280	u285A	245	220	220	210	210
4	240	240	260	260	260	290	250	230	220	210	205	200
5	240	240	230	230	230	265	260	230	220	200	200	200
6	260	260	260	220	220	260	245	240	230	200	200	200
7	240	240	230	240	220	265	245	220	215	C	C	C
8	280	280	265	260	240	260	250	220	220	210	u200B	220
9	360	440	480F	365	240	250	250	235	240	220	210	205
10	320	380	380	300	230	280	240	230	220	210	200	200
11	310	355	380	360	295	260	255	240	230	215	200H	200H
12	235	255	260	260	240	240	250	230	225	210H	210	210
13	220	245	275	285	300	320	255	230	220	220	215	210
14	245	240	240	250	235	240	250	230	220	205	B	215
15	270	280	290	355	345	275	255	230	215	205	210	200
16	225	240	240	240	230	245	A	u240A	220	205	200	205
17	u425F	u380F	u445F	F	F	260	245	u230A	225	230	225	A
18	380	430	400	340	280	330	260	240	220	220	215	220
19	275	245	230	225	220	235	250	240	220	220	210	200
20	295	240	250	280	285	260	260	240	u230B	220	u215B	u220B
21	280	300	280	260	210	240	260	240	220	220H	220	210
22	285	295	u315F	250	220	240	260	245	235	220	210	210
23	260	260	270	240	215	245	255	225	200H	195	200	220
24	255	250	260	230	220	240	245	u220H	210	205	190	200
25	u270F	240	245	220	210	240	245	210H	200H	195H	190	195H
26	260	250	260	250	220	235	245	230	210H	200H	200H	190H
27	270	260	260	240	220	220	240	220	205	200	200	210
28	280	280	260	260	240	230	240	230	220	220	225	A
29	300	270	260	255	240	220	260	240	220	220	210	A
30	310	320	340	370	340	280	260	250	230	C	u240A	230
31	250	230	240	240	260	260	255	240	225	220	205	210
Count	31	31	31	30	30	31	30	31	31	28	29	27
Median	270	260	260	250	240	260	250	230	220	210	205	210
Mean	275	280	285	265	240	260	255	235	220	210	210	205

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

Characteristic : h'F
Unit : Km.
Month : August 1960

TABLE 19—(Concl'd.)
Ionospheric Data
75° E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
200	200	205	215	235	A	280	345	370	305	300	275	1
200	200	200	220	240	280	310	340	260	300	295	260	2
210	210	215	225	260	260	290	335	u340F	340	310	280	3
210	210	205	210	240	260	300	345	u320F	305F	270	250	4
205	200	215	200	230	u280A	280	F	F	360	320	280	5
210	200	B	220	A	260	280	300	295	300	280	260	6
C	C	200	200	240	270	295	320	320	300	280	280	7
220	210	220	200	240	260	300	365	360F	340F	350	360	8
200	200	200	200	240	260	280	260	240	245	260	260	9
200	210	200	220	240	270	330	460F	400	380	305	290	10
210	205	200H	220	235	265	300	350	370	u380F	345	265	11
205	215	210	u235B	245	270	305	F	280F	255	240	235	12
215	205	215	225	235	270	320	420	F	F	F	315	13
210	205	205	215	235	265	305	F	375F	F	295	260	14
205	205	200	215	240	270	330	F	F	u370F	u370F	260	15
205	215	210	205	235	270	320	F	F	F	u400F	u380F	16
215H	200	210	230	250	275	315	335	320	345	360F	u360F	17
220	220	220	225	250	275	330	F	F	F	F	300	18
215	220	225	230	240	280	340	F	F	F	F	325	19
B	215	A	A	280	285	325	u330F	290	300	290	290	20
220	220	220	220H	240	270	340	F	F	F	325	305	21
205	200	210	220	230	265	325	F	u380F	u285F	u245F	260	22
205	220	215	220	230	265	315	380	355	F	280	260	23
200	205	200	220	240	260	320	365	F	F	F	u280F	24
205	195H	200	230	240	260	300	F	F	F	u300F	u280A	25
200	200H	205H	220	235	260	300	F	F	u280F	F	280F	26
200	200	210	210	240	260	300	360	360F	280F	300F	260	27
215	220	240	240	255	280	300	340	320	300F	320	340	28
A	225	240	240	250	280	300	300	280	280	280	280	29
220	230	240	A	260	280	315	340	320	315	270	255	30
220	220	220	240	245	270	320	350	300	280	250	240	31
28	30	29	29	30	30	31	20	21	22	26	31	Count
210	210	210	220	240	270	305	345	320	300	300	280	Median
210	210	210	220	240	270	310	345	325	310	300	285	Mean

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

Characteristic : h'E
Unit : Km.
Month : August 1960

TABLE 20
Ionospheric Data
75°E Mean Time

Latitude 10°2' N
Longitude 77°5' E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2							140	A	A	A	A	A
3								A	A	A	A	A
4								A	A	A	A	A
5							125	115	A	A	A	A
6								A	A	A	A	B
7								A	A	C	C	C
8								120	120	110	B	120
9								120	105	A	A	A
10								110	A	A	A	A
11							130	A	B	A	115	A
12								110	120	A	A	A
13								A	115	A	A	A
14								115	A	A	A	B
15								A	A	A	A	A
16								A	A	A	A	A
17								110	A	A	A	A
18								120	110	110	110	A
19								120	120	115	A	A
20								A	120	A	A	A
21								115	120	120	115	110
22								120	120	120	A	A
23								A	A	A	A	A
24								A	A	A	A	A
25								110	105	110	115	110
26								110	105	A	A	A
27								110	A	A	A	A
28								130	105	120	A	120
29								120	110	A	110	B
30								120	A	A	A	A
31								A	A	120	A	A
Count							3	17	13	8	5	4
Median							..	115	115	120	115	..
Mean							..	115	115	115	115	..

Sweep 1.0 Mc. to Mc. in 27 seconds.

Characteristic : h'E
 Unit : Km.
 Month : August 1960

TABLE 20
 Ionospheric Data
 75°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	115	A	A						1
A	120	120	120	115	A							2
A	A	A	A	A	A							3
A	A	A	A	A	A	120						4
A	A	A	A	A	A	A						5
A	A	A	A	A	A							6
C	C	C	120	120	120							7
A	A	120	A	A	A							8
A	110	A	120	115	120							9
A	A	A	110	120	120							10
A	A	A	A	A	120							11
A	A	A	120	A	120							12
A	A	A	A	110	120							13
A	A	A	A	A	120							14
A	A	A	A	A	A							15
A	A	A	A	A	A							16
A	A	115	120	A								17
A	A	120	R	A	A							18
A	A	120	120	110	110							19
B	120	120	A	A	105							20
A	A	A	115	115	120							21
A	A	A	A	A	A							22
A	A	A	A	A	A							23
A	A	A	A	A	A							24
A	A	115	115	120	130							25
A	u115A	A	120	115	120							26
A	A	A	110	110								27
A	A	105	A	A	A							28
A	110	110	130	120								29
110	120	110	A	A	A							30
A	A	A	120	120	130							31
1	6	10	13	13	14	..						Count
.	120	120	120	115	120	..						Median
.	115	115	120	115	120	..						Mean

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

Characteristic : h'E
Unit : Km
Month : August 1960

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

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

Characteristic : h'E
Unit : Km.
Month : August 1960

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

Latitude 10.2° N.
Longitude 77.5° E.

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	110	110	A							1
120	A	120	120	A								2
A	A	A	A	A	A							3
A	A	A	A	A								4
A	A	A	A	120	A							5
A	A	B	A	A								6
C	C	120	120	120								7
A	A	120	120	120								8
A	A	120	120	120	140							9
A	A	110	120	120								10
A	A	A	A	115	135							11
A	A	120	B	120	A							12
A	A	A	110	115	120							13
A	115	A	A	120								14
A	A	A	A	A	A							15
A	A	A	A	A								16
A	v115A	115	A	A								17
120	120	B	120	120								18
A	A	120	115	105	110							19
B	120	A	A	A								20
A	A	110	110	120								21
A	A	A	A	A								22
A	A	A	A	A								23
A	A	A	A	A								24
A	120	115	110	B	130							25
v120A	A	120	120	120								26
A	A	A	115	120								27
A	A	A	A	A								28
A	110	130	120									29
A	110	A	A	A								30
A	A	A	120	120								31
3	7	12	15	16	5							Count
..	115	120	120	120	130							Median
..	115	120	115	120	125							Mean

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

Characteristic : h'Es
Unit : Km.
Month : August 1960.

TABLE 21
Ionospheric Data
75° E Mean Time

Latitude 10 2 N.
Longitude 77 5° E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1		110		105			120	100	100	100	100	100
2							G	110	100	100	100	100
3							120	110	100	100	100	100
4						110	115	120	105	100	100	100
5							G	110	100	100	100	100
6	120							100	100	100	100	100
7								100	100	C	C	C
8								120	100	100	B	100
9								120	100	100	100	100
10	120	110	110	110				100	105	100	100	100
11	120	120	120	115	110		G	105	100	100	100	100
12								G	100	100	100	100
13								105	105	100	100	100
14								100	100	100	100	100
15			115	140	120			100	100	100	100	100
16				110				100	100	100	100	100
17								100	100	100	100	100
18								100	100	100	100	100
19		120				110		105	100	100	100	100
20	120							105	100	100	100	100
21								110	100	100	100	100
22								G	G	G	100	100
23	140	120	125				130	100	100	100	100	100
24					140			100	100	100	100	100
25								G	100	100	100	100
26	115							100	100	100	100	100
27	130	140						G	100	100	100	100
28	130	100	100					G	G	G	100	105
29								100	105	105	100	110
30								G	105	100	110	100
31		120	120	120			160	110	105	100	100	100
Count	8	8	6	6	3	2	5	25	29	28	29	30
Median	120	120	120	110	..		120	100	100	100	100	100
Mean	125	115	115	115	.	..	130	105	100	100	100	100

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

Characteristic : h'Es
 Unit : Km.
 Month . August 1960

TABLE 21
 Ionospheric Data
 75° E Mean Time

Latitude : 10.2° N.
 Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	105	105	100	105	105	100	100		1
100	100	100	100	105	100	100	100					2
100	100	100	100	100	100	100						3
100	100	100	100	100	100	115						4
100	100	100	100	100	100	100	100			130		5
100	100	100	100	100	100	100	100					6
C	C	C	100	100	115	100						7
100	100	100	100	100	110							8
100	G	100	105	100	105	140	130				120	9
100	100	100	100	105	G						120	10
100	100	100	100	100	110				130	125	120	11
100	100	100	100	100	110			115	105			12
100	100	100	100	100	110				110			13
100	100	100	100	100	100							14
100	100	100	100	100	100							15
100	100	100	100	100	100							16
100	100	100	100	100	100							17
100	100	100	100	105	105	120						18
100	100	100	100	105	100	180				135	120	19
100	100	100	100	100	100	140			130	F		20
100	100	100	100	100	120							21
100	100	100	100	100	100		170			125	175	22
100	100		100	100	115							23
100	100	100	100	100	100							24
100	100	100	G	G	G						120	25
100	100	100	100	100	105						140	26
100	100	100	100	100	100						120	27
100	100	100	105	105	110					140	130	28
100	100	100	105	110	120	130					130	29
100	100	100	105	100	100	100	105		145	140		30
100	100	100	105	105	110						120	31
30	29	30	30	30	27	11	7	2	6	7	11	Count
100	100	100	100	100	105	100	105	..	120	130	120	Median
100	100	100	100	100	105	115	115	.	120	130	130	Mean

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

Characteristic : h'Es
Unit : Km.
Month : August 1960

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

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1				110			105	100	100	100	100	100
2							G	110	100	100	100	100
3								115	100	100	100	100
4					115	120	120	120	100	100	100	100
5						110	G	100	100	100	100	100
6	115						105	100	100	100	100	100
7							G	100	100	C	C	C
8							G	105	100	100	100	100
9							G	100	100	100	100	100
10		110	110				G	110	100	100	100	100
11	120	125	120	115			105	100	100	100	100	100
12	115	115	110				G	100	100	100	100	100
13							G	105	100	100	100	100
14		100		110			G	100	100	100	B	100
15			125		115		115	100	100	100	100	100
16				110			100	100	100	100	100	100
17								100	G	100	G	100
18							110	100	100	100	100	100
19	120						120	100	100	100	100	100
20	120							105	100	100	100	100
21		100					G	105	100	100	100	100
22								G	G	100	100	100
23		120					115	100	100	100	100	100
24							G	100	100	100	100	100
25							G	G	100	100	100	100
26	110						G	100	100	100	100	100
27	110	110					G	100	100	100	100	100
28	125	120					G	140	130	100	100	100
29			160				G	110	105	100	100	100
30								G	100	C	110	100
31	120	120					110	110	100	100	100	100
Count	9	9	5	4	2	2	11	27	29	29	28	30
Median	120	115	120	..	..	..	110	100	100	100	100	100
Mean	115	115	125	.	.	.	110	105	100	100	100	100

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

Characteristic : h'Es
 Unit : Km.
 Month : August 1960

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

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	105	105	100	100		100	100			1
100	100	100	105	110	100	100		100				2
100	100	100	100	100	100	100						3
100	100	100	100	115						130		4
100	100	100	100	110	100	100				130		5
100	100	100	100	100	100	100						6
C	C	100	100	115	115	100						7
100	100	100	100	100								8
100	100	105	105	105		140				120	120	9
100	100	100	105	110				120			120	10
100	100	100	100	100	G	100			125	120		11
100	100	G	100	105	120		140	110				12
100	100	100	100	105	110			115	115			13
100	100	100	100	100	105					100		14
100	100	100	100	100	100							15
100	100	100	100	100							120	16
100	100	100	100	100	100							17
100	100	110	100	120								18
100	100	100	100	100	100	170			120		120	19
100	100	100	100	100	105				120			20
100	100	100	100	100	120							21
100	100	100	100	100			170		130	140	160	22
100	100	100	100	110	120							23
100	100	100	100	100								24
100	100	100	G	G	G						115	25
100	100	100	100	105	110						135	26
100	100	100	100	100	140						120	27
100	100	105	110	110	105					140	125	28
100	100	105	110	110			100					29
100	100	110	100	100	105	105			130	120		30
100	100	105	100	105	140							31
30	30	30	30	30	20	10	3	5	7	8	9	Count
100	100	100	100	100	105	100	..	110	120	125	120	Median
100	100	100	100	105	110	110	..	110	120	120	125	Mean

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

Characteristic (M₃₀₀₀) F₂
Unit : —
Month : August 1960

TABLE 22
Ionospheric Data
75° E Mean Time

Latitude : 10 2°N
Longitude : 77 5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	3.00	2.95	3.00	3.00	3.35	3.30	3.10	3.05	2.75	2.55	2.45	2.30
2	3.00	3.00	2.90	3.15	3.25	3.30	3.00	2.95	2.60	2.30	2.50	2.45
3	3.10	3.00	3.05	2.90	3.25	3.20	2.85	2.80	2.50	2.45	2.30	2.40
4	3.10	3.30	3.20	2.95	3.10	3.10	2.95	2.90	2.65	2.30	2.30	2.40
5	3.10	3.15	3.25	3.30	3.40	3.40	3.10	3.00	2.70	2.30	2.40	2.40
6	2.95	3.05	3.10	3.25	3.40	3.50	3.10	3.00	2.60	2.50	2.50	2.30
7	3.15	3.15	3.30	3.40	3.45	3.40	3.00	3.00	2.70	C	C	C
8	2.90	2.90	3.00	3.15	3.30	3.30	3.15	2.90	2.80	2.40	2.40	2.30
9	2.50	u2.50s	F	F	F	3.20	3.15	3.10	2.80	2.50	2.10	2.40
10	2.90	j2.50RH	2.45	2.75	3.25	j3.50R	3.20	3.20	3.05	2.70	2.40	2.00
11	2.70	2.65	2.45 _F	F	2.55 _F	3.05	3.00	FS	2.65	2.40	2.40	2.35
12	3.20	3.00	2.90	2.85	2.90	3.15	3.20	3.25	2.95	2.65	2.30	2.15
13	3.25	3.20	3.10	3.00	2.85	2.65	2.85	2.85	2.50	2.30	2.20	2.20
14	j2.70 _F	3.05	2.90	3.00	3.00	3.25	3.05	2.75	2.40	2.25	2.20	2.35
15	2.75	2.80	2.85	2.60	2.30 _H	2.70	2.95	2.60	2.55	2.25	2.20	2.15
16	FS	2.90	2.95 _F	F	3.00	3.15	3.00	2.95	2.60	2.30	2.10	2.15
17	F	F	F	F	F	F	3.20	3.05	2.75	2.30 _H	2.40 _H	2.30
18	2.35	2.20	2.25	2.40	2.55	2.50	2.80	2.95	2.60	2.30	2.40	2.20
19	u2.80 _{FS}	F	F	F	3.40	3.50	3.00	2.85	2.60	2.40	2.25	2.15
20	F	F	F	2.85	F	F	3.15	2.95	2.70	2.50	2.30	u2.05 _R
21	u2.90 _s	2.75	2.70	2.85	3.25	3.40	3.10	2.90	2.50	2.10	2.35	2.25
22	F	F	u2.75 _F	FS	3.20	3.35	3.00	3.05	u3.10 _F	2.75	2.50	2.30
23	2.90	2.80	2.90	3.05	3.25	3.30	3.10	2.85	2.55	2.35	2.25	2.20
24	3.00	3.00	2.95	3.10	3.30	3.25	3.05	2.95	2.55	2.25	2.35	2.20
25	F	u2.95 _F	3.05	F	F	F	3.20	3.30	2.90	2.50	2.25	2.35
26	F	F	F	3.10	3.40	3.65	3.20	3.10	2.80	2.40	2.40	2.35
27	2.85	F	3.05	F	F	3.50	3.50	3.25	2.95	2.50	2.25	2.25
28	F	F	F	3.10 _F	3.00 _F	F	3.30	3.30	3.00	2.75	2.55	2.30
29	2.60	C	2.90	2.95	3.00	3.25	3.10	3.00	2.65	2.25	2.15	2.50
30	2.70	u2.70 _s	u2.60 _s	2.45	2.60	2.65	3.00	3.00	2.85	2.50	2.35	2.40
31	u3.20 _s	u3.30 _s	u3.20 _s	3.10	3.10	3.30	3.00	3.00	2.75	2.45	2.35	2.40
Count	24	23	25	23	26	27	31	30	31	30	30	30
Median	2.90	2.95	2.95	3.00	3.20	3.30	3.10	3.00	2.70	2.40	2.35	2.30
Mean	2.90	2.90	2.90	2.95	3.10	3.20	3.10	3.00	2.70	2.45	2.35	2.30

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

Characteristic (M3000) F₂

Unit : —

Month : August 1960

TABLE 22

Ionospheric Data

75° E Mean Time

Latitude : 10.2°N.

Longitude : 77.5°E.

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.20	2.20	2.20	2.15	2.25	2.40	2.50	2.45	2.35	2.40	2.50	2.70	1
2.30	2.15	2.25	2.30	2.30	2.35	2.35	u2.45s	F	2.50	2.55	u2.85s	2
2.30	2.25	2.35	2.40	2.50	2.60	2.65	2.55	2.50	2.55	2.65	2.80	3
2.35	2.30	2.30	2.25	2.40	2.50	2.60	2.50	2.50	2.55	2.70	2.90	4
2.40	2.30	2.40	2.45	2.50	2.55	2.65	2.60	u2.55F	u2.60F	2.65	2.70	5
2.40	2.35	2.35	2.40	2.55	2.65	2.85	2.75	2.80	2.70	2.75	2.90	6
C	C	C	2.30	2.25	2.40	2.50	2.60	2.55	2.55	2.70	2.70	7
2.25	2.35	2.40	2.30	2.40	2.40	2.60	2.55	2.35	2.50	2.50	2.50	8
2.45	2.50	2.50	2.55	2.55	2.55	2.60	2.60	3.00	3.10	3.00	3.00	9
2.25	2.20	2.20	2.30	2.35	2.45	2.50	2.25	F	F	F	u2.60F	10
2.25	2.20	2.20	2.15	2.10	2.25	2.40	2.40	2.35	2.35	F	F	11
2.25	2.20	2.20	2.35	2.30	2.35	2.25	2.20	2.40	2.65	2.80	3.00	12
2.20	2.15	2.10	2.20	2.15	2.20	2.10	2.10	F	F	F	F	13
2.30	2.20	2.25	2.20	2.35	2.35	2.30	2.20	u2.10F	u2.25F	F	2.70	14
2.10	2.10	2.10	2.15	2.20	2.20	2.20	2.10	F	F	F	F	15
2.15	2.20	2.10	2.10	2.15	2.20	2.15	2.05	F	F	F	F	16
2.30	2.00	WH	2.25	2.35	2.40	2.45	2.35	2.40	2.45	2.40	2.45	17
2.25	2.25	2.20	2.15	2.15	2.15	2.15	u2.15s	F	F	u2.40F	2.50	18
2.15	2.15	2.20	2.25	2.30	2.25	2.25	2.10	2.10	F	F	F	19
2.15	2.30	2.45	2.45	2.40	2.45	2.35	2.20	2.40	2.50	2.70	2.85	20
2.10	2.15	2.05	2.15	2.20	2.10	2.20	2.10	F	F	u2.50F	F	21
2.05	2.10	2.05	2.10	2.20	2.20	2.25	2.10	F	F	2.50	F	22
2.10	2.15	2.15	2.15	2.20	2.20	u2.20s	u2.20F	F	F	2.55	2.70	23
2.25	2.25	2.25	2.30	2.25	2.35	2.35	2.25	F	F	F	2.70F	24
2.35	2.35	2.35	2.45	2.55	2.75	2.75	2.30	u2.60s	FS	FS	2.90	25
2.35	2.35	2.30	2.30	2.35	2.45	2.45	u2.35s	u2.25F	F	F	F	26
2.35	2.30	2.30	2.35	2.40	2.55	2.55	2.40	F	F	F	F	27
u2.15RH	2.20	2.30	2.30	u2.35R	2.40	2.40	u2.45s	2.45	2.50	2.55	2.50	28
2.75	2.60	2.50	2.45	2.40	2.25	2.15	2.20	S	2.50	2.60	2.70	29
2.35	2.30	2.30	2.35	2.40	2.40	2.40	u2.40s	2.35	2.50	u2.65R	2.90	30
2.35	2.35	2.30	2.40	2.45	2.50	2.35	2.30	2.40	2.50	2.70	3.00	31
30	30	30	31	31	31	31	31	19	18	20	22	Count
2.25	2.20	2.25	2.30	2.35	2.40	2.40	2.30	2.40	2.50	2.60	2.70	Median
2.25	2.25	2.25	2.30	2.35	2.40	2.40	2.35	2.45	2.55	2.60	2.75	Mean

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

Characteristic (M3000) F2
Unit : —
Month : August 1960

TABLE 22—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	3.00	2.85	3.00	3.15	3.40	2.80	3.10	2.90	2.65	2.35	2.40	2.20
2	3.05	3.00	3.00	3.20	3.30	3.15	3.00	2.80	2.40	2.40	2.40	2.35
3	2.95	3.00	u2.90s	3.05	3.20	2.95	2.90	2.65	2.40	2.30	2.40	2.40
4	u3.20s	3.10	3.10	3.10	3.15	3.10	2.85	2.75	2.55	2.30	2.30	2.40
5	3.15	3.15	3.30	3.30	3.40	3.00H	3.15	2.90	2.60	2.35	2.40	2.40
6	2.95	3.10	3.20	3.30	3.50	3.00	3.00	2.80	2.50	2.40	2.40	2.15
7	3.15	3.25	3.40	3.40	3.50	4.10	3.00	2.80	2.60	C	C	C
8	2.95	2.90	u3.10s	3.20	3.30	3.20	3.00	3.00	2.60	2.30	2.40	2.30
9	u2.50s	u2.40F	F	F	F	2.95	3.10	3.00	2.65	2.30	2.30	2.40
10	2.60	j2.50RH	2.60	2.80	3.30	u2.80R	3.30	3.10	2.90	2.55	2.20	2.15
11	2.75	u2.55F	F	F	2.75	3.00	2.90	u2.85F	2.55	2.25	2.40	2.25
12	3.10	2.90	2.85	2.85	2.95	3.00	3.30	3.10	2.90	2.45	2.15	2.25
13	3.20	3.20	2.95	2.95	2.80	2.55	2.90	2.65	2.30	2.35	2.20	2.20
14	u2.80F	3.00	2.90	3.05	3.20	3.15	2.85	2.65	2.20	2.30	B	2.30
15	u2.75F	2.80	2.65	2.35H	2.25H	2.85	2.80	2.55	2.35	2.20	2.15	2.15
16	F	2.90	2.90	3.00	3.00	3.00	2.95	2.80	2.50	2.10	2.15	2.15
17	F	F	F	F	F	F	3.20	2.95	2.65	2.55H	2.25	2.35
18	2.35	2.15	2.35	2.50	2.55	2.40	2.90	2.65	2.40	2.35	2.30	2.25
19	F	F	F	u3.20s	3.45	2.95	3.00	2.80	2.40	2.30	2.25	2.15
20	F	C	u2.90C	F	F	3.25	3.05	2.80	2.60	2.50	u2.20R	2.05
21	2.80	2.65	2.70	3.05	3.50	2.85	2.95	2.75	2.25	2.30	2.35	2.20
22	F	F	2.80	3.10	3.10	3.20	3.15	3.15	2.90	2.65	2.40	2.15
23	2.90	2.80	2.90	3.00	3.45	3.25	2.95	2.70	2.45	2.20	2.30	2.15
24	3.05	3.00	3.00	3.20	3.45	2.85	3.00	2.75	2.25	2.40	2.30	2.25
25	F	2.95	u3.15F	3.35	F	3.15	3.30	3.10	2.70	2.30	2.35	2.35
26	3.05	F	u2.90F	3.25	3.60	3.30	3.25	3.00	2.65	2.30	2.35	2.35
27	F	F	F	F	3.35	3.25	3.30	3.05	2.70	2.30	2.25	2.30
28	F	2.90F	F	3.00	F	F	u3.20s	3.10	3.00	2.65	2.40	2.20
29	2.65	u2.80s	3.00	u2.85s	3.20	3.30	3.15	2.90	2.45	2.30	2.50	2.60
30	2.70	2.70	2.55	2.45	2.60	3.00	3.00	2.95	2.70	C	2.40	2.35
31	3.20	u3.30s	3.10	3.20	3.05	2.85	3.10	2.80	2.70	2.45	2.30	2.35
Count	23	25	25	26	26	29	31	31	31	29	29	30
Median	2.95	2.90	2.90	3.10	3.25	3.00	3.00	2.80	2.60	2.30	2.30	2.25
Mean	2.90	2.85	2.95	3.05	3.15	3.00	3.05	2.85	2.55	2.35	2.30	2.25

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic (M3000) F₂
Unit —
Month . August 1960

TABLE 22—Contd.
Ionospheric Data
75° E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2 15	2 20	2 10	2 30	2 30	2 55	2 50	2·40	2·30	2·45	2 65	2·90	1
2 30	2·20	2·25	2 30	2 30	2 35	2·35	2·30	u2·50F	2 50	u2 75s	3·05	2
2 30	2 35	2 40	2 45	2 55	2·65	2 65	2 55	2·55	2 55	2·70	3·00	3
2 30	2 20	2 25	2 35	2 50	2 55	2·55	2·45	2·50	2 55	2 80	3·00	4
2 25	2 25	2·40	2 50	2 50	2 60	2 60	2 55	u2·55F	2 60	2·70	2·90	5
2 30	2 30	2 35	2 50	2 65	2 75	2 80	2 80	2 75	2 70	2·80	3·00	6
C	C	2·30	2·30	2 40	2 40	2·50	2 60	2 55	2·60	2·70	2·80	7
2 40	2 35	2 30	2 35	2 40	2 50	2·55	2·40	2 40	2·50	2·55	2·55	8
2 45	2 50	2 55	2 55	2 50	2 55	2 60	2 85	3·10	u3 00s	3 00	2·90	9
2 15	2 20	2 30	2 30	2·40	2 50	2 40	F	F	F	F	2·65F	10
2·15	2 20	2 20	2 15	2 10	2 35	2·45	2 40	2·35	2·35	F	F	11
2 20	2 20	2 30	2 30	2 35	2 35	2 25	2 25	2·50	2 75	2 90	3·15	12
2 20	2 15	2 15	2 15	2 20	2 15	2 10	F	F	F	F	F	13
2 20	2 20	2 20	2·30	2·35	2 35	2 25	u2 10F	F	u2·40F	F	2·80	14
2 10	2 10	2 10	2·20	2 20	2·25	2 15	1·95F	u2·10F	F	F	F	15
2·15	2 10	2 10	2 15	2·20	2 20	2·10	2·00F	F	F	F	u2·20F	16
2 15	1 90w	2 05	2·30	2 40	2 45	2·35	2 35	2·45	2·40	2·35	2·40	17
2 25	2 15	2 20	2 15	2 10	2·25	2·15	u2 10s	F	F	F	2·60	18
2·15	2 15	2 15	2 25	2·30	2 25	2 25	2 10	F	F	F	F	19
2 25	2 40	2 45	2 50	2 40	2·40	2·25	2·30	2 45	2·60	2 70	2·75	20
2·05	2·05	2 10	2 20	2 15	2·15	2 20	2·10	F	F	u2·45FH	2 60	21
2 00	2 10	2·10	2 25	2 20	2·25	2 20	F	F	F	F	F	22
2 10	2 10	2 20	2·15	2 20	2·20	2 20	F	F	2 45	2 70	2·85	23
2·15	2·20	2 20	2·25	2·30	2·35	2 30	u2 20F	F	F	F	F	24
2·35	2 35	2 40	2·55	2·65	2 80	2·35	2·55	u2 55s	FS	FS	3·05	25
2 30	u2·40s	2·35	2·30	2·40	2·50	2 40	2·20	F	F	F	F	26
2 25	2 25	2 30	2·30	2 50	2·55	2 40	2·50	F	F	F	F	27
2 20	2 25	2 25	2 30	u2·50s	2·50	2 40	2·45	2·45	2·50	2 50	2·50	28
2 70	2 55	2·50	2·40	2·30	2 20K	S	2·30	u2·50s	u2·60s	2·65	2·75	29
2·35	2 35	2 30	2 35	2 40	2·40	2 35	2·40	2·40	2 60	2 80	3·00	30
2 30	2·30	2·35	2 45	2·50	2·45	2·40	2 40	2·45	2·60	2·90	3·00	31
30	30	31	31	31	31	30	27	19	19	18	23	Count
2·20	2 20	2 25	2 30	2·40	2·40	2·35	2·40	2 50	2·55	2 70	2·85	Median
2 25	2·25	2·25	2·30	2·35	2·40	2 35	2 35	2·45	2·55	2·70	2·80	Mean

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

Characteristic : foF₂
 Unit : Mc
 Month . September 1960

TABLE 23
 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	12.2	11.0	6.9	4.9	4.0	3.0	6.3	9.7	10.8	11.0	10.6	10.6
2	12.4 _F	F	F	6.5	4.4	3.5 _H	6.4	9.4	10.7	10.7	9.5	9.4
3	11.4	10.4	9.2	8.3	4.5	2.9	7.2	9.5	11.0	11.7	12.6	11.4
4	10.3	8.1	7.1	6.2	6.6	5.9	7.2	9.8	11.6	11.2	9.5	9.8
5	8.4	5.3	3.6	2.6	1.9	E	6.4	10.2	12.1	12.6	C	12.0
6	7.5	6.5	5.9	5.0	2.8	E	6.8	10.6	11.3	10.8	u11.3 _C	u11.0 _C
7	11.4	9.5	7.1	4.9	2.6	E	6.4	10.1	11.2	10.8	10.0	10.4
8	10.5	10.0	8.8	8.0	6.3	3.5	6.7	C	11.5	u11.8 _H	10.6	10.0
9	11.0	10.1	8.6	7.9	7.6	4.8	6.7	9.8	11.1	10.8 _H	10.0	10.2
10	10.8	u10.6 _F	u9.7 _S	8.8	8.2	6.3	7.7	10.5	12.1	12.8	12.4	11.6
11	F	F	F	F	F	F	u8.2 _{RS}	10.6	11.2	C	C	C
12	F	F	10.6	u9.7 _S	7.3	5.8	7.9	10.4	11.4	10.8	11.2	11.4
13	10.8	9.0	F	7.6	7.8	6.7	7.6	10.6	11.6	10.6	11.0	11.6
14	11.0	10.0	F	7.4	7.2	6.4	7.7	10.8	12.6	12.8	11.5	11.4
15	11.6	8.8	7.7	7.0	6.7	4.6	u7.2 _S	10.6	12.6	C	11.4	11.0
16	F	F	u8.3 _F	F	F	F	7.6	11.0	11.8	11.6	10.2	10.0
17	F	F	9.3	7.6	6.6	5.6	7.7	10.9	12.6	13.0	12.6	11.6
18	F	F	F	F	F	F	F	11.0 _F	12.4	12.8	11.7	11.6
19	u12.8 _F	F	u8.0 _F	6.8 _F	F	F	7.6	11.0	12.6	12.8	11.8	11.5
20	F	F	8.0 _F	F	F	F	7.0	10.6	12.3	13.0	12.0	11.5
21	F	F	u8.7 _F	7.4 _F	5.3	3.0	u7.2 _F	10.6	12.4	12.9	11.7	11.6
22	F _S	F	10.3	9.1	6.4	4.9 _F	7.5	11.0	12.0	12.2	11.2	11.0
23	F	12.4 _F	u10.2 _F	u8.0 _F	5.4	4.6	7.3	10.6	12.2	12.7	11.7	10.9
24	F	11.1	F	6.2	4.0	2.7	6.8	10.1	12.3	13.4	13.4	10.6
25	11.4	u12.6 _F	F	F	7.6	6.1	7.2	10.4	12.1	13.3	12.6 _H	10.8
26	F	u8.7 _S	u7.4 _S	F	6.3	u5.7 _F	u7.4 _F	10.5	12.3	12.5	10.3 _H	9.8
27	F	F	6.4 _F	F	F	F	6.9	9.6	11.2	12.7	13.0	10.8
28	12.6	11.0	F	u8.5 _F	u8.1 _F	F	u7.4 _F	10.1	11.1	10.6	10.3	10.2
29	F	F	F	u8.3 _F	F	F	7.8	10.4	11.3	11.2	10.6	10.3
30	F	u9.8 _F	u7.7 _F	7.5	7.1	6.8	8.5	10.4	11.5	12.7	12.3	11.8
Count	16	18	21	23	23	22	29	29	30	28	28	29
Median	11.2	10.0	8.0	7.5	6.4	4.7	7.2	10.5	11.7	12.4	11.4	11.0
Mean	11.0	9.7	8.1	7.1	5.9	4.9	7.3	10.4	11.8	12.0	11.3	10.9

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

Characteristic : foF₂

TABLE 23

Latitude : 10°2'N.

Unit : Mc

Ionospheric Data

Longitude : 77°5'E.

Month : September 1960

75°E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.3	11.8	12.7	13.1	13.3	13.5	12.5	F	F	F	F	F	1
10.3	10.4	11.1	11.8	12.7	13.8	13.1	u11.9s	F	F	11.3	F	2
10.1	10.8	11.6	13.0	13.8	13.8	13.3	12.8	12.9	13.1	U11.8s	11.0	3
10.4	9.3	10.6	11.8	12.6	13.2	12.6	11.6	12.8	12.5	11.2	9.5	4
12.6	11.5	10.8	12.3	13.3	14.2	13.9	12.4	11.7	12.2	10.2	8.8	5
10.6	11.1	12.0	12.4	12.5	j12.0s	u12.0s	11.6	u11.7s	u12.1s	u12.0s	11.2	6
10.7	10.8	11.0	11.3	11.4	11.3	11.6	11.7	12.9	12.7	12.6	11.0	7
9.8	9.8	9.6	10.5	11.1	11.6	11.5	10.6	10.8	u11.8s	12.2	11.5	8
9.9	10.4	10.9	11.1	11.4	12.4	u11.7s	10.2	F	F	F	F	9
11.4	11.6	11.8	12.5	13.0	13.1	12.8	11.2	u10.6F	F	F	F	10
C	C	11.2	11.5	11.8	11.6	11.0	9.6F	F	F	F	u12.4F	11
11.4	11.8	12.5	13.2	13.4	13.2	11.6	F	F	F	F	F	12
12.3	12.4	13.4	13.8	14.0	14.2	12.8	F	F	F	F	F	13
11.8	12.2	12.6	C	u12.2s	u11.5s	10.0	F	F	u10.4F	11.0	12.5	14
10.8	11.1	11.4	11.8	11.6	11.3	10.4	9.0F	F	F	F	F	15
10.4	10.6	10.9	11.8	12.2	12.5	u11.8s	F	F	F	F	F	16
11.7	12.1	12.8	13.6	13.9	14.0H	13.1H	F	F	F	F	F	17
11.4	10.9	11.3	11.8	12.1	12.0	11.7	C	F	F	F	F	18
12.0	12.8	13.6	13.8	13.8H	13.3H	11.8H	F	F	F	F	F	19
11.4	11.6	12.0	12.6	11.9	11.6	10.8	F	F	F	F	F	20
11.4	11.8	11.9	12.4	12.6	13.2	12.8	10.8	10.4	F	F	u12.4F	21
11.0	11.4	12.2	13.0	13.2	13.0	12.6	10.5	F	F	F	F	22
10.6	10.5	11.3	12.4	13.0	12.8	u11.7s	S	F	F	F	F	23
10.4	10.8	11.6	11.8	12.4	12.6	11.4	10.5	F	F	F	F	24
10.6	10.8	11.3	11.6	11.6	11.4	10.8	j8.5F	F	F	F	F	25
10.3	10.6	10.8	11.7	12.3	j12.1	11.4	u9.7F	F	F	F	F	26
10.5	10.5	10.7	11.4	11.4	11.2	10.9	9.3	F	F	F	12.7	27
10.3	10.7	11.1	11.7	u11.7s	11.8	11.4	9.1	F	F	F	F	28
10.3	10.8	11.4	u12.0s	12.0	u12.1s	11.4	F	F	F	F	12.4	29
12.5	13.3	13.8	14.3	14.2	14.2	u12.6R	u10.8F	F	F	F	F	30
29	29	30	29	30	30	30	19	8	7	8	11	Count
10.7	10.9	11.4	12.0	12.4	12.6	11.7	10.6	u11.7	u12.2	u11.6	11.5	Median
11.0	11.2	11.7	12.3	12.6	12.6	11.9	10.6	u11.7	u12.1	u11.5	11.4	Mean

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

Characteristic : foF₂
Unit : Mc
Month : September 1960

TABLE 23—Contd.
Ionospheric Data
750°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	12.0	9.2	5.3	4.3	3.7	3.7	8.2	10.4	11.4	10.6	10.7	C
2	F	F	7.9	5.3	3.9	4.2	8.3	10.0	10.7	9.9	9.5	10.0
3	F	10.1	8.6	6.2	3.6	4.3	8.8	10.1	11.5	12.1	12.2 ^H	10.6
4	9.1	7.6	6.7	6.4	6.3	4.8	8.7	10.6	11.6	10.3	9.4	10.4
5	6.7	4.7	2.8	2.5	E	3.7	8.7	11.0	12.8	C	12.2	12.1
6	7.0	6.0	5.7	3.7	E	4.0	9.1	11.2	11.0	11.2	11.3	10.7
7	10.6	7.9	6.0	4.1	1.9	3.7	8.6	11.0	10.9	10.2	10.2	10.6
8	10.2	u9.1 ^s	8.6	7.3	u5.1 ^s	3.9 ^H	C	10.4	11.7	10.8	9.9	10.0
9	10.8	9.0	8.1	7.6	6.9	4.6 ^H	8.8	10.7	11.2	10.0	10.2	9.8
10	10.8	FS	u9.0 ^F	8.7	7.1	6.2	9.2	11.0	12.6	12.4	11.8	11.5
11	F	F	F	F	F	F	u9.6 ^{FS}	11.2	11.2	C	C	C
12	F	u10.7 ^s	10.4	8.8	6.0	5.8	u9.8 ^s	11.0	11.0	11.1	11.2	11.4
13	u9.8 ^s	u7.8 ^s	u7.2 ^{FS}	7.8	7.6	6.0	9.4	11.4	11.0	10.8	11.2	12.0
14	F	9.4	8.2	7.3	7.0	5.5	9.6	11.7	12.8	12.6	11.4	11.5
15	10.2	7.9	7.0	F	6.0	4.9	9.0	11.6	12.8	C	11.0	10.9
16	F	u9.3 ^F	F	u6.8 ^F	F	F	9.4	11.6	12.1	10.6	10.0	10.3
17	u11.0 ^F	u9.4 ^F	8.4	u7.2 ^s	6.1	5.5	9.4	11.8	13.1	13.1	11.7	11.4
18	F	F	F	u7.1 ^F	F	F	F	11.5	13.2	12.1	11.6	11.5
19	F	u9.0 ^F	F	F	F	F	9.8	12.1	13.0	12.6	11.5	11.7
20	F	F	u6.6 ^F	F	F	u4.5 ^F	9.1	11.9	13.0	13.0	11.6	11.5
21	u11.4 ^F	u9.7 ^F	F	6.5	4.0	F	9.1	11.5	12.8	12.6	11.6	11.6
22	12.2	10.9	F	F	F	4.9	9.8	11.6	12.5	11.4	11.2	11.0
23	12.6	u11.6 ^s	F	6.6	4.9	4.9	9.5	11.4	12.7	12.7	11.2	10.8
24	F	u9.6 ^s	7.7	5.0	3.4	4.4	8.9	11.4	13.0	13.4	12.2 ^H	10.1
25	12.5	FS	F	8.3	7.0	5.3	9.1	11.1	13.0	13.3	11.0	10.6
26	F	F	6.6	F	6.1	5.6	u9.4 ^F	11.6	12.5	11.8	10.0	9.9
27	F	F	5.7	F	u5.8 ^F	4.7	8.9	10.1	11.9	13.0	12.6 ^H	10.5
28	11.7	u9.7 ^s	F	8.4	F	u6.2 ^F	9.0	10.8	10.8	10.6	10.1	10.0
29	u11.3 ^F	F	F	F	F	6.3	9.3	10.8	11.7	10.8	10.4	10.3
30	u11.0 ^F	8.8	F	7.4	6.9 ^F	6.6	10.1	10.6	12.3	12.8	11.7	12.0
Count	18	21	19	22	22	25	28	30	30	27	29	28
Median	10.9	9.2	7.2	7.0	5.9	4.9	9.1	11.2	12.2	11.8	11.2	10.8
Mean	10.6	8.9	7.2	6.5	5.5	5.0	9.2	11.1	12.1	11.7	11.1	10.9

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : foF₂
 Unit : Mc
 Month : September 1960

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

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.7	12.2	12.8	13.6	13.4	13.1	j12.0 _F	F	F	F	F	11.8	1
10.3	10.8	11.5	12.4	13.1	13.5	12.9	10.8	11.4	F	11.6	F	2
10.4	11.3	12.4	13.6	13.8	v13.4 _C	12.8	12.8	13.0	12.4	v11.6 _s	10.4	3
9.8	9.8	11.2	12.4	12.8	13.0	11.6	12.5	12.8	11.2	10.4	9.2	4
12.0	11.0	11.4	12.8	13.5	14.8	12.6	12.2	11.4	11.6	9.1	8.4	5
10.8	11.8	12.2	12.4	12.5	v11.8 _s	11.6	11.6	S	12.2	11.9	11.6	6
10.6	10.8	11.1	11.4	11.5	11.5	11.4	12.8	12.4	12.6	12.3	10.8	7
9.8	9.6	10.0	10.8	11.4	11.7	11.0	10.5	11.4	v11.7 _s	12.4	11.0	8
10.1	10.8	11.0	11.2	j12.2 _s	j12.3 _s	11.4	F	F	F	F	v11.0 _F	9
11.5	11.6	12.0	12.8	13.0	13.0	v11.6 _s	10.7	v10.6 _F	F	F	F	10
C	10.9	11.3	11.6	12.0	11.5	10.4	F	F	F	F	v12.2 _s	11
11.4	12.0	13.0	13.6	13.4	12.8	v11.0 _x	F	C	F	F	F	12
12.3	13.0	13.8	14.0	14.0	13.5	v11.7 _s	F	F	F	F	F	13
12.0	12.4	13.0	C	C	10.8	8.8	F	F	F	v11.4 _{xs}	F	14
10.8	11.2	11.6	11.6	11.5	10.8	9.2	F	F	F	F	F	15
10.3	10.6	11.4	12.0	12.3	12.4	11.1	F	F	F	F	F	16
11.7	12.4	13.3	13.8	14.0	13.7 _H	12.1 _H	F	F	F	F	v11.4 _F	17
11.1	11.0	11.5	11.9	12.0	12.0	10.9	F	F	F	F	F	18
12.5	13.2	13.7	13.8	13.6 _H	12.9 _H	10.7 _H	F	F	F	F	F	19
11.5	11.8	12.4	12.2	11.7	11.3	9.7	F	F	F	F	F	20
11.6	11.7	12.0	12.6	12.7	13.2	11.7	j10.2 _F	F	11.1 _F	F	13.4	21
11.0	11.8	12.6	13.2	13.2	12.9	11.7	F	F	F	F	F	22
10.5	10.9	11.7	12.6	13.2	12.4	11.0	FS	F	F	v12.4 _F	v11.2 _F	23
10.5	11.3	11.6	12.0	12.7	11.6	11.0	10.1	F	F	F	F	24
10.8	11.1	11.4	11.6	11.4	11.2	v9.7 _s	F	F	F	F	F	25
10.5	10.7	11.2	12.0	12.1	11.9	10.8	v9.0 _F	F	F	F	11.0	26
10.7	10.6	10.9	11.3	11.3	11.3	10.2	F	F	F	12.5	F	27
10.4	10.9	11.4	11.7	11.8	11.5	10.5	F	F	10.7	F	F	28
10.5	11.2	11.8	11.9	12.4	11.7	10.2	F	F	F	12.3	F	29
12.9	12.7	14.2	14.3	14.1	13.7	v11.8 _s	F	F	F	F	FS	30
29	30	30	29	29	30	30	11	7	8	11	13	Count
10.8	11.2	11.6	12.4	12.7	12.4	11.0	10.8	v11.4	v11.6	11.9	11.0	Median
11.0	11.4	12.0	12.4	12.6	12.4	11.1	11.2	v11.8	v11.7	11.6	11.0	Mean

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

Characteristic : foF1
 Unit : Mc.
 Month : September 1960

TABLE 24
 Ionospheric Data
 75°E Mean Time.

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

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

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

Characteristic : foFI
 Unit : Mc
 Month : September 1960

TABLE 24
 Ionospheric Data
 75° E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
L	L	L	L	L	A							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 _H	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
C	C	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				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 _H	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 : foFI
 Unit : Mc
 Month : September 1960

TABLE 24—Contd.
 Ionospheric Data
 75°E Mean Time

Latitude : 10.2° N
 Longitude : 77.5° E.

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

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

Characteristic : foFI
 Unit : Mc
 Month : September 1960

TABLE 24—Contd.
 Ionospheric Data
 75°E Mean Time

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

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

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

Characteristic : foE
 Unit : Mc
 Month : September 1960

TABLE 25
 Ionospheric Data
 75°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								2.8	A	A	A	A
2								A	B	A	A	B
3								B	B	B	B	B
4							2.0	A	A	A	A	A
5								2.8	A	A	C	A
6								A	A	A	A	A
7							R	A	A	A	A	A
8								C	A	A	A	A
9								2.7	A	A	A	A
10								2.9	A	A	A	A
11								A	A	C	C	C
12								A	A	A	A	A
13								A	A	A	A	A
14								2.9	A	A	A	A
15								3.0	A	C	A	A
16								A	A	A	A	A
17								2.9 _H	A	A	A	A
18								A	A	A	A	A
19								A	A	A	A	A
20								2.5	A	A	A	A
21								2.9	A	A	A	A
22								2.7	A	A	A	A
23								2.8	3.2	A	A	A
24								2.6	3.1	A	A	A
25								2.8	A	A	A	A
26								U2.7 _R	A	A	A	B
27								U2.7 _R	A	A	A	A
28								A	A	A	A	A
29								U2.9 _A	A	A	A	A
30								A	U3.3 _R	A	A	A
Count							1	16	3	..	..	..
Mediat.							..	2.8	..	..	..	..
Mean							..	2.8	..	..	..	..

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

Characteristic : foE
 Unit : Mc
 Month : September 1960

TABLE 25
 Ionospheric Data
 75°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	4 0	A	A	A							1
A	B	A	A	A	A							2
B	B	A	A	A	A							3
A	A	A	A	B	A							4
A	A	A	A	R	-							5
A	A	A	A	A	R							6
A	A	A	A	A	2 6							7
A	A	A	A	A	A							8
A	A	A	A	A	A							9
A	A	A	A	v3.5A	F							10
C	C	A	A	A	A							11
A	A	A	A	A	A							12
A	A	A	A	A	A							13
A	A	A	C	A	A							14
A	A	A	A	A	A							15
A	A	A	A	A	-							16
A	A	A	A	3 2	-							17
A	A	A	A	A	-							18
A	B	A	A	A	..							19
A	A	A	A	A	A							20
A	A	A	A	A	..							21
A	A	A	A	A	..							22
A	A	A	A	A	A							23
A	A	A	A	A	A							24
A	A	A	A	A	..							25
B	A	A	A	A	.							26
A	A	A	A	A	..							27
A	A	A	A	A	..							28
A	A	A	A	A	A							29
A	A	A	A	A	.							30
..	..	1	..	2	1							Count
.	..	..	..	..	..							Median
..	.	.	..	..	..							Mean

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

Characteristic : foE
Unit : Mc
Month : September 1960

TABLE 25—Contd.
Ionospheric Data
75°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							..	A	A	A	A	A
2							2.3H	A	A	A	A	B
3							B	A	B	B	B	B
4							2.6	A	A	A	A	A
5							..	2.9	A	C	A	A
6							R	A	A	A	A	A
7							R	A	A	A	A	A
8							C	A	A	A	A	A
9							U2.4R	A	A	A	A	A
10							2.5	A	A	A	A	A
11							A	A	A	C	C	C
12							2.3	A	A	A	A	A
13							2.6	A	A	A	A	A
14							2.4	A	A	A	A	A
15								A	A	C	A	A
16							2.5	A	A	A	A	A
17							2.6H	A	A	A	A	A
18							2.6	A	A	A	A	A
19							A	A	A	A	A	A
20							2.5	A	A	A	A	A
21							2.5	A	A	A	A	A
22							2.7	A	A	A	A	A
23							2.3	3.0	A	A	A	A
24							2.3	A	3.2	A	A	A
25							R	3.0	A	A	A	A
26							..	A	A	A	B	A
27							.	2.7	A	A	A	B
28							.	A	A	A	A	A
29							U2.1R	A	A	A	A	A
30							A	A	A	A	A	A
Count . .							16	4	1		..	.
Median . .							2.5	.			..	.
Mean . .							2.4	.			.	.

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

Characteristic : foE
 Unit : Mc
 Month . September 1960

TABLE 25--Contd.
 Ionospheric Data
 75°E Mean Time

Latitude: 10.2° N
 Longitude: 77 5° E.

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A								1
B	A	A	A	A								2
B	A	A	A	A								3
A	A	A	A	A								4
A	A	A	B									5
A	A ₁	A	A	A	U ₂ *OR							6
A	A ₁	A	A	A ₁								7
A	A	A	A	A								8
A	A	A	A	A								9
A	A	A	A	A								10
C	A	A	A	A								11
A	A	A	A	A								12
A	A	A	A	A								13
A	A	A	C	C								14
A	A	A	A	A								15
A	A	A	A	A								16
A	A	A	3.4	A								17
A	A	A	A	A								18
B	A	A	A ₁	A ₁								19
A	A	A	A ₁	A								20
A	A	A	A	A								21
A	A	3.8	A	A								22
A	A	3.7	3.3	A								23
A	A	A	A	A								24
A	A	A	A	A								25
A	A	A	A									26
A	A	A	A									27
A	A	A	A									28
A	A	A	A	A								29
A	A	A	A	A								30
..	..	2	2	..	1							Count
..	..	..	.	..	..							Median
..	..	..	..	.	..							Mean

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

Characteristic : foEs

TABLE 26

Latitude : 102°N

Unit : Mc

Ionospheric Data

Longitude : 77°5' E.

Month : September 1960

75°E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								6.6	10.4	11.4	12.6	12.2
2								8.0	9.2	10.6	12.0	12.6
3								G	10.6	10.4	12.6	12.0
4				u5.1s			G	9.0	11.5	11.3	12.6	11.8
5				..				G	9.4	9.4	C	12.3
6	u4.8s	u9.0s	4.3	S	u5.1s			u9.0s	u10.4s	11.0	13.0	13.0
7	4.2	..	..	u6.0s	..		G	u7.8s	12.0	11.4	12.7	12.6
8	..			..				C	11.6	11.6	12.6	13.8
9	4.1			..				G	10.0	11.2	12.3	12.6
10	..			..				G	10.2	12.0	13.0	13.0
11	7.0	6.0	3.6	6.0				9.0	11.6	C	C	C
12	4.8	5.0	1.8	..	..	3.5	..	7.0	11.6	12.0	13.0	13.0
13	..			..				9.0	12.0	12.0	13.0	13.2
14	6.0	3.6	..	4.8				G	11.6	12.2	13.0	13.4
15	..							7.0	11.0	C	13.0	17.0
16	..							8.0	12.2	12.0	12.7	12.8
17	..							G	12.2	12.6	13.8	13.6
18	4.6	..	..	..				11.4	10.8	12.8	13.2	13.0
19	..			2.4				8.6	12.4	12.0	12.6	12.8
20	..							G	10.0	11.0	12.0	12.0
21								6.7	9.2	10.5	11.6	12.3
22								7.0	9.2	10.6	11.4	12.5
23								7.0	9.4	10.2	12.0	12.0
24								G	G	9.8	11.6	11.0
25								G	8.6	10.6	11.6	11.2
26								5.1	9.2	10.3	11.4	10.6
27								G	7.2	9.6	11.1	11.8
28								7.8	9.8	10.1	10.6	11.9
29	4.0	..	..	..	..	..	..	7.8	8.8	10.9	11.4	11.4
30	..				3.8	..	..	7.0	G	11.0	10.8	12.4
Count	8	4	3	5	2	1	2	29	30	28	28	29
Median	4.7	..	.	5.1	.	.	.	7.0	10.3	11.0	12.6	12.5
Mean	4.9	.	..	4.9	..	.	.	7.8	10.4	11.1	12.3	12.5

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

Characteristic : foEs

TABLE 26

Latitude : 10°2'N.

Unit : Mc

Ionospheric Data

Longitude : 77°5'E

Month : September 1960

75°0' E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.2	11.8	10.6	10.0	9.0	7.0						3.4	1
12.6	12.0	13.4	12.2	12.0	9.0	8.0			3.3	3.8	4.4	2
12.0	11.0	12.0	12.0	7.0	6.2	5.0		4.2	4.4	4.0	6.0	3
12.2	11.4	11.6	13.4	G	7.8	..		..	..	..	..	4
13.4	12.0	10.6	10.6	6.2	..	..		4.6	..	..	3.3	5
12.0	11.4	12.6	11.4	10.0	8.4	..			..	u9.0s	u8.3s	6
12.7	13.6	12.8	12.0	9.2	7.2	..			..	..	..	7
13.2	13.0	13.0	12.0	10.6	13.7	u8.0s			S	S	u6.5s	8
13.2	13.0	12.6	12.0	u10.0s	9.0						..	9
12.6	13.2	13.4	11.6	u10.0s	9.0						..	10
C	C	13.8	12.2	11.0	7.6						9.0	11
13.0	12.2	11.4	9.2	11.0	9.0						4.2	12
14.0	12.2	12.0	11.0	9.2	8.4					4.6	4.6	13
13.4	12.6	13.0	C	12.2	7.0							14
16.0	13.0	14.6	12.0	10.4	9.0							15
13.0	13.8	12.6	10.8	10.4	8.0							16
13.2	11.8	6.8	8.0	7.0	8.8							17
13.8	12.8	13.0	11.0	u12.0s	8.6		C					18
12.6	11.0	12.0	11.8	10.6								19
12.4	12.2	12.0	11.0	10.4	7.8							20
12.2	12.0	11.5	9.8	9.2	7.0				4.2	3.2	9.0	21
11.8	10.6	9.4	8.3	8.8	8.0						7.0	22
11.4	11.7	9.6	10.4	8.8	6.6							23
11.6	10.8	12.0	10.0	8.0	7.0						4.6	24
11.2	11.4	11.4	9.0	9.0	..					2.6	..	25
11.6	11.4	11.3	8.8	8.0	..							26
11.8	12.0	11.0	9.9	8.8	..							27
12.4	11.3	12.3	10.4	9.2	6.8				2.1	2.6	4.6	28
12.2	11.9	12.0	9.6	8.6	6.3						..	29
11.8	11.1	11.0	9.9	8.2	..						u4.4s	30
29	29	30	29	30	24	3	..	2	4	7	14	Count
12.4	12.0	12.0	10.8	9.2	7.9	..	..	..	..	3.8	4.6	Median
12.6	12.0	11.8	10.7	9.5	8.0	..	..	.	..	4.3	5.6	Mean

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

Characteristic : foEs

TABLE 26—*contd.*

Latitude : 10°2N

Unit : Mc

Ionospheric Data

Longitude : 77°5'E

Month : September 1960

75° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							.	8.0	10.8	11.8	12.2	C
2							G	9.0	10.4	12.0	12.0	12.2
3		2.8	..	.			G	10.0	10.0	12.0	12.4	12.0
4	..	..	..	5.0			6.4	11.6	11.7	12.5	12.4	12.8
5	.	..	..	.			..	G	10.6	C	12.2	11.0
6	v7.0s	S	S	v4.8s			G	S	11.4	12.0	13.2	12.8
7	..	.	10.0	..			G	10.5	12.0	12.4	13.0	13.3
8	..						C	v10.0s	11.3	12.6	13.0	13.4
9	3.0						G	9.0	11.8	12.4	13.0	13.1
10	.						G	7.0	12.0	13.0	13.7	13.0
11	11.0	4.6	6.0	7.0			7.0	10.4	12.0	C	C	C
12	4.8	3.8					G	9.0	12.0	14.0	13.8	13.6
13	..	..					G	10.0	12.0	13.0	12.4	13.0
14	7.0	..					G	9.0	12.6	14.0	13.6	13.6
15							.	9.0	11.4	C	13.2	14.0
16							G	11.6	12.6	12.7	12.4	13.8
17							G	10.8	11.8	14.0	13.2	13.0
18				5.6	3.9	..	6.4	8.6	12.0	13.0	13.8	14.8
19							v7.0s	12.0	12.0	13.4	13.0	12.6
20							G	7.8	10.2	11.4	12.0	13.0
21							G	8.2	10.4	12.4	12.0	12.6
22								8.6	10.4	11.7	11.7	12.0
23							G	7.6	10.6	11.6	12.0	12.0
24							G	8.0	7.4	11.0	11.6	11.7
25	2.8						G	6.8	9.6	11.2	11.3	11.0
26							.	7.6	10.3	11.8	11.1	11.4
27							..	G	8.1	11.8	11.1	11.7
28								8.2	9.7	10.8	10.6	11.4
29							G	9.3	9.8	12.0	11.8	12.0
30	2.7						6.0	7.8	11.0	11.4	11.5	12.1
Count	7	3	2	4	1	..	22	29	30	27	29	28
Median	4.8			.	.		G	9.0	11.2	12.0	12.4	12.7
Mean	5.5		.		..	.	6.6	9.1	10.9	12.3	12.4	12.6

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

Characteristic . foEs

TABLE 26—*contd.*

Latitude . 10.°2N.

Unit : Mc

Ionospheric Data

Longitude : 77.5°E.

Month : September 1960

75° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.6	10.8	10.0	9.0	7.0								1
12.0	11.6	12.4	12.6	11.0	9.0	u5.0s			4.4	4.0		2
G	12.0	12.0	10.0	6.4	6.0	.	.	4.8	4.2	.		3
12.6	11.6	12.5	6.0	5.8	.					..		4
12.4	13.2	11.4	7.8	..				S		..	u3.2s	5
11.5	12.4	11.4	10.8	u9.0s	u5.6s		1.8	.	..	u9.0s	5.6	6
12.3	12.4	u12.0s	11.2	8.1	u7.0s		.	.	..	4.0	..	7
12.6	13.0	12.3	11.0	12.1	13.5			u5.8s	u8.0s	S	u7.0s	8
12.4	12.6	11.4	10.6	9.0	6.8							9
13.0	13.0	u12.0s	12.0	9.0	..							10
C	13.4	13.0	11.0	9.0	.			9.4	..	.	5.4	11
13.0	12.6	10.0	11.2	9.2	6.0						4.8	12
13.2	12.0	12.0	9.4	8.8	6.0					u6.0s	3.0	13
12.0	13.0	12.0	C	C	4.2						..	14
15.0	15.2	13.0	12.0	10.0						4.6	..	15
13.4	12.2	12.0	10.4	8.8							..	16
12.6	9.4	7.6	G	7.8							4.2	17
14.0	12.8	12.0	10.6	11.0								18
11.0	11.4	11.0	11.6	8.0								19
12.1	12.2	12.0	10.0	8.7								20
12.2	11.7	10.0	9.2	7.7						5.6	..	21
11.2	10.6	7.8	9.2	8.0						3.4	8.0	22
12.2	15.4	8.0	8.4	7.4	4.7					..		23
12.0	11.4	10.8	9.0	6.6						4.0		24
11.4	12.0	9.8	9.2	7.0						..		25
11.4	11.6	10.3	8.3	.								26
11.1	11.8	10.1	9.2	7.8				2.8	3.0	..		27
11.6	11.4	10.1	9.7	7.1							5.1	28
12.4	12.1	10.5	8.8	8.2							..	29
10.9	9.8	10.3	8.6	7.0							S	30
29	30	30	29	27	10	1	1	3	4	9	9	Count
12.2	12.0	11.4	9.7	8.1	6.0	..	..	..	..	4.0	5.1	Median
12.2	12.2	11.0	9.9	8.4	6.9	..	..	..	..	4.8	5.1	Mean

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

Characteristic : FbEs
 Unit : Mc
 Month : September 1960

TABLE 27
 Ionospheric Data
 75° E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								.	3.3	3.6	4.0	4.1
2								2.9	..	3.8	3.9	4.6
3								G			4.4	..
4				4.2			G	3.0	3.7	3.8	4.0	4.2
5				-				G	3.4	3.8	C	4.0
6		..	2.6		2.9			2.8	3.4	3.8	4.0	4.2
7	1.5						G	2.8	3.4	3.9	4.0	4.2
8	..							G	3.4	3.8	4.1	4.3
9	2.4							C	3.4	3.8	4.1	4.2
10	-							G	3.4	3.9	4.0	4.3
11	2.4	2.0	1.7	2.0				2.9	3.4	C	C	C
12	1.8	2.2		.				3.0	3.6	3.8	4.2	4.2
13				.				3.0	3.5	3.9	4.2	4.2
14	1.7	1.5		1.5				G	3.6	3.9	4.2	4.3
15								3.0	3.5	C	4.0	4.2
16								3.0	3.5	4.1	4.1	4.6
17								G	3.5	4.0	4.1	4.4
18	1.6							3.0	3.5	4.0	4.2	4.3
19								3.0	3.4	4.0	4.3	4.5
20								G	3.6	4.0	4.2	4.3
21								2.9	3.4	3.8	4.1	4.2
22								2.9	3.5	3.9	4.1	4.2
23								2.8	3.4	3.8	4.0	4.1
24								G	G	3.8	4.0	4.2
25								G	3.4	3.8	4.0	4.3
26								2.9	3.4	3.9	4.1	..
27								.	3.5	3.9	4.1	4.3
28								2.9	3.4	3.7	3.9	4.1
29	2.0							2.8	3.4	3.7	4.0	4.0
30								2.7	G	3.7	4.0	4.0
Count	7	4	1	4	..	..	2	27	28	27	28	27
Median	1.8	.	.	.	..	..	.	2.8	3.4	3.8	4.1	4.2
Mean	1.9	.	.	.		..	.	2.9	3.5	3.8	4.1	4.2

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

Characteristic : FbEs
 Unit : Mc
 Month : September 1960

TABLE 27
 Ionospheric Data
 75° E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.1	4.0	4.0	3.8	3.2	2.6							1
4.4	4.4	4.3	4.4	5.0	5.0	3.0			2.2		2.4	2
4.6	4.8	4.4	5.0	3.4	2.7	2.6		2.0	2.2		2.1	3
4.3	4.2	4.0	5.2	G	2.8	.					2.2	4
4.4	4.0	3.9	3.9	3.2	.	.		2.2				5
4.6	4.2	4.0	3.6	3.2	2.6	..				1.8	2.8	6
4.3	4.2	4.0	3.8	3.2	2.7	..						7
4.3	4.2	4.0	3.8	3.8	4.5	2.6			2.2	3.0		8
4.2	4.0	4.0	3.7	3.3	3.0							9
4.2	4.2	4.0	3.7	3.3	2.7							10
C	C	4.0	3.7	3.2	2.8						2.2	11
4.4	4.4	4.0	3.7	3.2	2.8							12
4.2	4.2	4.0	3.8	3.3	2.8					1.9		13
4.4	4.4	4.0	C	3.2	2.7							14
4.3	4.4	4.4	3.8	3.4	2.6							15
4.4	4.2	4.0	3.8	3.3	2.7							16
4.4	4.3	4.2	4.0	3.2	2.8							17
4.4	4.3	4.0	3.8	3.4	2.7		C					18
4.5	..	4.2	5.0	3.4	.							19
4.4	4.3	4.0	3.8	3.3	2.7							20
4.4	4.2	3.9	3.6	3.3	..						3.2	21
4.4	4.2	4.0	3.8	3.4	..						2.8	22
4.2	4.1	4.0	3.8	3.3	3.0						..	23
4.2	4.3	4.0	3.7	3.3	3.0						2.2	24
4.3	4.0	3.8	3.6	3.1	..							25
.	4.2	4.0	3.6	3.1	..							26
4.2	4.1	3.8	3.5	3.3	..							27
4.1	4.0	4.0	3.6	3.0	..				2.0	1.9	1.9	28
4.0	4.0	3.6	3.5	3.1	2.9							29
4.2	4.0	3.8	3.5	3.0	..						2.3	30
28	28	30	29	30	21	3	..	2	4	4	10	Count
4.3	4.2	4.0	3.8	3.2	2.8	..	..	..	..	..	2.2	Median
4.3	4.2	4.0	3.9	3.3	2.9	..	..	..	..	..	2.4	Mean

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

Characteristic : F_bE_s
 Unit : Mc
 Month : September 1960

TABLE 27—*contd.*
 Ionospheric Data
 75° E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							..	3.0	3.5	3.8	4.2	C
2							G	3.1	3.9	3.8	4.0	4.8
3		1.7					G	3.8	.	4.4	4.4	.
4				1.8				3.9	3.6	3.9	4.2	4.3
5							..	G	3.6	C	4.0	4.1
6	3.2	2.5	2.4	2.7			G	3.1	3.6	4.0	4.0	4.2
7			2.2				G	3.2	3.6	4.1	4.2	4.4
8							C	3.2	3.6	4.0	4.2	4.4
9							G	3.2	3.6	4.0	4.1	4.3
10							G	3.2	3.6	4.1	4.2	4.4
11	2.8	1.7	1.9	2.0			2.6	3.2	3.6	C	C	C
12	2.2	1.7					G	3.3	3.7	4.1	4.2	4.2
13							G	3.3	3.7	4.0	4.2	4.4
14	2.2						G	3.3	3.8	4.0	4.4	4.4
15							..	3.3	3.7	C	4.2	4.2
16							G	3.2	3.7	4.0	4.4	4.4
17							G	3.2	3.8	4.0	4.4	4.4
18				1.6	1.5		2.6	3.3	3.8	4.0	4.3	4.4
19							2.6	3.4	3.8	4.1	4.3	4.4
20							G	3.4	3.8	4.0	4.2	4.4
21							G	3.2	3.6	4.0	4.3	4.3
22							.	3.3	3.8	4.0	4.3	4.4
23							G	3.2	3.6	3.9	4.1	4.2
24							G	3.1	..	4.0	4.0	4.3
25	1.6						G	3.2	3.8	4.0	4.2	4.3
26							.	3.2	3.6	4.0	4.2	..
27							..	.	3.7	3.9	4.1	4.1
28							.	3.1	3.5	3.8	4.0	4.2
29							G	3.1	3.6	3.8	4.2	4.1
30							2.9	3.1	3.5	3.8	4.1	4.2
Count	5	4	3	4	1	.	21	29	28	27	29	26
Median	2.2		.				G	3.2	3.6	4.0	4.2	4.3
Mean	2.4	..	.			..	..	3.3	3.7	4.0	4.2	4.3

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

Characteristic . FbEs
 Unit : Mc
 Month : September 1960

TABLE 27—*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
4.0	4.8	3.8	3.4	3.0								1
	4.2	4.2	6.0	5.0	4.4	2.4			2.8	2.0		2
G	4.3	4.8	4.6	3.3	2.6							3
4.2	4.0	4.4	3.6	3.0	.							4
4.2	4.0	3.9	3.5	..	.			2.4				5
4.3	4.0	3.8	3.3	2.9	2.2			..		3.4	1.8	6
4.2	4.2	3.9	3.5	3.0	..			..		1.8		7
4.3	4.1	4.0	3.4	4.4	4.0			2.3	2.8	2.8	2.4	8
4.2	4.1	3.8	3.5	3.4				..				9
4.3	4.1	3.9	3.5	3.0				..				10
G	4.2	4.0	3.6	3.0				1.5				11
4.2	4.2	3.9	3.6	3.1								12
4.3	4.0	3.8	3.6	3.2	2.2				2.0	1.8		13
4.4	4.4	4.0	C	C					..	..		14
4.4	4.2	4.0	3.5	3.0					2.0	..		15
4.4	4.1	4.0	3.5	3.0							1.3	16
4.4	4.3	4.3	G	3.1								17
4.3	4.2	3.9	3.5	3.3								18
.	4.4	4.6	4.0	3.1								19
4.3	4.2	4.0	3.5	3.0								20
4.4	4.1	4.0	3.4	..					2.0			21
4.3	4.2	4.0	3.6	3.3					1.7	2.7		22
4.2	4.0	3.9	3.5	3.2	2.6							23
4.3	4.1	4.0	3.6	3.3						1.7		24
4.2	4.0	3.8	3.4									25
4.3	4.0	3.8	3.4									26
4.1	4.0	3.9	3.3						1.9	1.9		27
4.2	3.8	3.7	3.4								1.9	28
4.0	3.9	3.6	3.3	3.1								29
4.0	3.9	3.7	3.1									30
27	30	30	29	22	6	1	..	3	3	10	6	Count
4.3	4.1	3.9	3.5	3.1	2.6	..	..	..	.	2.0	1.8	Median
4.2	4.1	4.0	3.6	3.3	3.0	..	..	..	.	2.1	2.0	Mean

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

Characteristic f_{min}
Unit : Mc
Month : September 1960

TABLE 28
Ionospheric Data
75° E Mean Time

Latitude: 10 2° N
Longitude. 77 5° E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	1.6	1.7	1.6	1.4	1.8	1.7	2.0	1.7	2.1	2.4	2.6	3.0
2	1.7	1.6	1.3	1.3	1.4	1.3	2.0	1.9	3.9	2.5	2.5	4.4
3	2.0	1.6	1.6	1.8	1.7	1.5	2.6	4.2	4.3	4.4	4.2	5.1
4	2.0	1.9	1.7	1.4	1.6	1.6	1.7	2.0	2.7	2.7	2.9	2.8
5	1.7	1.7	1.4	1.7	1.5	E	2.1	1.7	2.0	2.6	C	2.8
6	1.8	1.6	1.9	2.5	1.8	E	2.2	1.6	$u2.0\alpha$	2.6	$u2.5\alpha$	3.0
7	1.2	1.5	1.6	1.8	1.6	E	1.8	1.6	2.4	2.6	2.9	3.0
8	1.3	1.3	1.5	1.4	1.5	1.7	2.4	C	2.0	2.4	2.6	2.8
9	2.1	1.7	1.5	1.7	1.5	1.3	2.1	1.8	1.7	2.2	2.4	2.7
10	1.8	1.5	1.6	1.5	1.6	1.6	2.2	1.9	2.1	2.4	2.7	2.8
11	1.2	1.0	1.0	1.5	1.7	1.4	2.2	1.9	2.2	C	C	C
12	1.4	E	1.4	1.8	1.5	1.3	2.0	1.6	2.0	2.4	2.4	2.6
13	1.8	1.8	1.7	1.5	1.6	1.9	2.2	1.7	2.0	2.3	2.6	2.8
14	1.4	1.5	1.3	1.1	1.5	1.4	2.1	2.0	2.4	2.5	3.0	3.2
15	1.7	2.1	1.5	1.5	1.7	1.6	2.4	2.1	2.4	C	2.6	3.0
16	1.2	1.2	1.4	1.4	1.4	1.6	2.1	1.8	2.2	2.5	3.0	3.2
17	1.3	1.6	1.3	1.2	1.6	1.2	2.1	2.0	2.2	2.4	2.6	2.8
18	1.2	1.4	1.5	1.7	1.3	1.5	2.2	1.9	2.0	2.5	2.6	3.0
19	1.2	1.5	1.3	1.3	1.8	1.4	2.1	1.7	2.1	2.6	2.9	3.2
20	1.3	1.5	1.5	1.4	1.4	1.7	2.3	2.2	2.3	3.1	2.6	3.1
21	1.2	1.2	1.2	1.4	1.5	1.4	2.3	1.8	2.2	2.5	2.6	3.0
22	2.2	1.8	1.6	1.6	1.6	2.2	2.5	1.9	2.2	2.6	3.0	3.1
23	1.8	1.6	1.4	1.3	1.5	1.6	2.2	1.9	2.4	2.6	3.0	2.9
24	1.7	1.4	1.4	1.8	1.6	1.7	2.4	2.0	2.6	2.6	2.8	3.0
25	1.4	1.8	1.8	1.4	2.2	1.5	2.3	2.0	2.4	3.0	3.0	3.1
26	1.3	1.8	1.6	1.8	1.9	2.1	2.5	1.9	2.3	2.9	2.9	5.5
27	2.0	1.6	1.9	1.6	1.6	1.7	2.4	2.2	2.8	2.8	2.9	3.2
28	2.0	2.2	1.7	1.9	1.9	1.8	2.3	1.9	2.4	2.7	2.7	3.1
29	1.9	1.6	1.6	1.5	1.7	1.4	2.1	1.9	2.2	2.6	2.6	2.8
30	1.5	1.4	2.0	1.6	1.6	1.8	2.4	1.8	2.3	2.6	2.9	3.0
Count	30	30	30	30	30	30	30	29	30	28	28	29
Median	1.6	1.6	1.5	1.5	1.6	1.6	2.2	1.9	2.2	2.6	2.7	3.0
Mean	1.6	1.6	1.5	1.6	1.6	1.6	2.2	2.0	2.4	2.6	2.8	3.2

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

Characteristic: f min
Unit: Mc
Month: September 1960

TABLE 28—*contd.*
Ionospheric Data
75 E Mean Time

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

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

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

Characteristic: f min

TABLE 28—contd.

Latitude: 10° 2' N

Unit : Mc

Ionospheric Data

Longitude: 77° 5' E

Month : September 1960

75° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.9	1.6	1.8	1.4	1.7	1.9	2.6	1.9	2.4	2.6	2.8	C
2	1.6	1.5	1.4	1.3	1.3	1.6	1.5	2.0	2.9	2.4	2.7	4.2
3	2.1	1.6	1.7	1.7	1.7	1.6	4.0	3.4	4.4	4.0	4.0	4.8
4	2.4	1.7	1.8	1.3	2.0	1.5	2.1	2.1	2.6	2.7	2.8	3.0
5	1.7	1.6	1.4	1.4	E	1.6	2.2	2.4	2.3	C	2.6	2.9
6	1.7	1.7	2.2	2.6	E	2.0	1.8	1.7	2.4	2.8	2.8	3.0 _a
7	1.3	1.5	1.8	1.7	1.6	1.9	1.8	2.0	2.4	2.9	2.8	3.0
8	1.1	1.4	1.5	1.5	1.4	1.9	C	1.7	2.1	2.4	2.8	2.8
9	1.8 _s	1.7	1.4	1.3	1.5	1.6	1.8	1.7	2.2	2.4	2.5	2.8
10	1.1	1.7	1.5	1.6	1.5	1.7	1.7	1.8	2.3	2.8	2.7	3.0
11	1.1	1.0	1.1	1.5	1.5	1.5	1.7	2.0	2.2	C	C	C
12	1.1	1.3	1.5	1.5	1.4	1.7	1.7	1.8	2.4	2.4	2.8	2.8
13	1.8	1.8	1.6	1.6	1.6	1.8	1.8	1.8	2.2	2.5	2.8	3.0
14	1.6	1.3	1.4	1.6	1.2	1.7	1.9	2.0	2.6	2.6	3.4	3.2
15	2.0	1.7	1.4	1.6	1.5	1.8	2.7	2.0	2.4	C	2.8	3.0
16	1.2	1.3	1.6	1.6	1.4	1.7	2.0	1.8	2.4	2.6	3.2	3.1
17	1.4	1.2	1.3	1.4	1.5	1.5	1.8	1.7	2.2	2.4	2.7	2.8
18	1.3	1.3	1.5	1.4	1.3	1.7	2.0	1.8	2.4	2.6	2.5	2.9
19	1.7	1.4	1.4	1.8	1.6	1.7	2.1	2.2	2.4	2.8	3.0	3.2
20	1.3	1.2	1.6	1.5	1.3	1.8	2.3	2.1	2.7	2.7	3.0	3.1
21	1.3	1.2	1.3	1.3	1.4	1.5	1.8	2.0	2.4	2.4	3.0	3.1
22	2.2	1.9	1.7	1.5	1.8	2.2	2.6	2.0	2.5	2.5	3.1	3.2
23	1.9	1.7	1.7	1.2	1.4	1.6	1.9	2.0	2.4	2.6	2.8	3.2
24	1.6	1.5	1.6	1.7	1.5	1.6	1.9	2.0	2.6	2.4	3.0	3.0
25	1.3	1.9	1.6	1.5	1.4	1.7	1.9	2.4	2.8	3.0	3.0	3.2
26	1.6	1.6	1.7	1.8	2.2	2.1	2.6	2.2	2.5	3.0	3.4	4.8
27	1.7	2.1	1.7	1.7	1.7	1.7	2.9	2.4	2.6	2.9	2.9	3.0
28	2.1	1.5	1.9	1.6	1.8	2.1	2.6	2.1	2.5	2.6	3.0	3.1
29	1.8	1.6	1.5	1.6	1.6	1.7	1.9	1.9	2.3	2.5	3.2	3.0
30	1.5	1.6	1.6	1.6	2.2	1.6	2.4	2.2	2.5	2.7	3.0	3.2
Count	30	30	30	30	30	30	30	30	30	27	29	28
Median	1.6	1.6	1.6	1.6	1.5	1.7	1.9	2.0	2.4	2.6	2.8	3.0
Mean	1.6	1.5	1.6	1.6	1.6	1.7	2.1	2.0	2.5	2.7	2.9	3.2

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

Characteristic f min
Unit · Mc
Month . September 1960

TABLE 28—*contd.*
Ionospheric Data
75° E Mean Time

Latitude: 10 2° N
Longitude: 77·5° E

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

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

Characteristic : h'F₂
 Unit : Km.
 Month : September 1960

TABLE 29
 Ionospheric Data
 75°E Mean Time

Latitude: 10°2' N
 Longitude: 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	C	L
6								L	L	L	L	L
7								L	L	L	L	L
8								C	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	C	C	C
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	C	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
Count							
Median							
Mean							

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

Characteristic : h'F₂
 Unit : Km
 Month : September 1960

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
L	L	L	L	L	A							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 _{Ext}	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
C	C	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
	..	.	..	..	..							Count
	.	..	.	..	.							Median
	.	..	..	.	..							Mean

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

Characteristic : h'F₂
 Unit : Km
 Month : September 1960

TABLE 29—*contd.*
 Ionospheric Data
 75°E Mean Time

Latitude: 10°2' N
 Longitude: 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							L	L	L	L	L	C
2							L	L	L	L	L ^{u310L}	L
3							L	L	L	L	L	L
4							L	L	L	L	L	L
5							..	L	L	C	L	L
6							..	L	L	L	L	L
7							..	L	L	L	L	L
8							C	L	L	L ^{LH}	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11							..	L	L	C	C	C
12								L	L	L	L	L
13								L	L	L	L	L
14							..	L	L	L	L	L
15							..	L	L	C	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	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	L
25							L	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	L
30							L	L	L	L	L	L
Count							I	..
Median						
Mean						

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

Characteristic : h'F₂
 Unit : Km
 Month : September 1960

TABLE 29—*contd.*
 Ionospheric Data
 75 E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	A								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
C	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	C	C								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	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	..							25
L	L	L	L	L	L							26
L	L	L	L	L	..							27
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 : September 1960

TABLE 30
 Ionospheric Data
 75° E Mean Time

Latitude : 10 2° N
 Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	235	220	220	240	245	225	260	240	220	215	200 _H	200
2	280	240	220	230	225	230	260	240	230 _B	200 _H	205	220
3	280 _F	265	240	220	225	260	270	265 _B	270 _B	250 _B	240	B
4	245	235	245	A	250	220	260	245	230	210	210	195
5	240	225	225	280	295	E	270	250	240	240	C	210
6	275	280 _A	260	265	270	E	265	245	230	225	220	205
7	250	240	235	240	235	E	260	240	220 _H	200	205 _H	200
8	280	260	265	260	240	220	250	C	220 _H	210	200	200
9	300	260	255	240	240	220	265	240 _H	220 _H	205 _H	210	200
10	270	275	245	235	230	225	250	240	220	205 _H	200	200
11	300	320	340	280	220	210	260	240	210	C	C	C
12	270	285	260	220	220	240	265	240	220	210	200 _H	200
13	260	240	240	240	260	240	260	240	220	220	220	220
14	270	240	260	240	240	235	260	250	230	220	200	205
15	220	240	260	260	260	240	270	240	230	C	205	200
16	250 _F	240 _F	235	255 _F	235 _F	230 _F	265	245	225	205	200	205
17	255 _F	240 _F	240	240	235	220	260	245	225	200	200 _H	190 _H
18	270 _F	255 _F	240 _F	235 _F	260 _F	260	275	260	220	200	215	205
19	250 _F	235 _F	240	240	240 _F	230 _F	275	250	220	220	210	215
20	230 _F	230 _F	235	240 _F	240 _F	245 _F	270	245	230	220	220	220
21	240	225	240	225	230	230	265	245	230	215	200 _H	210
22	250	235	240	235	240	225	260	240	225	215	200 _H	215
23	265	240	225	240	230	240	270	250	225	215	215	200
24	240	225	220	220	230	240	250	245	230	225	220	215
25	285	255	225	230	230	220	255	240	220	215	210	205
26	240	240	240	245	240	240	260	250	220	210	200	B
27	250	240	250	250	240	235	270	250	230 _H	230	220	220
28	250	240	260	280	260	235	260	245	225	220	220	210
29	255	255	255	245	230	220	265	240	240	220	200	220
30	240	245	255	245	240	255	270	250	235	220	220	210
Count	30	30	30	29	30	30	30	29	30	28	28	27
Median	250	240	240	240	240	235	260	245	225	215	210	205
Mean	260	250	245	245	240	235	265	245	225	215	210	205

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

Characteristic · h'F
 Unit : Km.
 Month : September 1960

TABLE 30
 Inospheric 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
200H	200H	215	220	230	240	280	F	260F	300F	290F	300F	1
220	220	230	A	A	A	280	370	400	320	300	280F	3
u230B	B	u250A	A	260	270	300	305	300	265	260	260	3
200	210	215	A	245	265	305	340	280	245	225	260	4
225	220	220	230	245	270	280	260	260	240	235	285	5
210	205	220	230	235	250	285	F	F	u300F	u280F	u280A	6
200	205	200	220	225	245	280	320	F	300	260	280	7
200H	205H	215	225	240	A	300	390	350	280	300	300	8
205	205	210	220	240	260	300	420F	F	u320F	290	280	9
195	205	220	220	235	260H	300	F	F	F	u285F	u280F	10
C	C	220	220	230	260	310	380F	u380F	u280F	u300F	260	11
200	220	220	220	240	260	320	u440F	u400F	u300F	240	260	12
220	210	220	220	240	260	320	u400F	u360F	300	260	280	13
200	200H	210	C	240	265	320	u480F	u340F	340	280	240	14
200	220	240	220	240	270	320	u400F	u420F	u360F	300F	320	15
215	210	215	225	240	260	310	u480F	F	F	u270F	u245F	16
210	200	210	230	235	260	310F	F	F	u280F	u280F	u240F	17
205	200	225	225	240	270	315	C	F	F	u370F	u270F	18
215	B	235	A	250	275	335	F	F	F	u275F	u255F	19
220	220	220	230	240	275	330	F	F	F	u330F	u350F	20
205	215	210	220	235	265	315	440	F	370	300	u270A	21
210	210	210H	225	240	265	320	F	u400F	365F	280F	300F	22
210	205	215	220	240	265	325	u420F	460F	F	305	280	23
210	210	210	220	245	275	335	430	410	340	300	290	24
210	210	220	215	240	265	320	F	465	330	300	265	25
u220B	220	215	225	240	270	320	445	F	F	300	250	26
200	220	205	220	250	275	330	460	F	300	270	260	27
220	215	220	220	250	275	300	445	F	F	280	250F	28
200H	215	220	225	245	265	320	F	F	F	F	240	29
210	205	210H	225	240	275	300	F	F	F	F	260	30
29	27	30	25	29	28	30	19	15	20	28	30	Count
210	210	220	220	240	265	310	420	380	300	280	270	Median
210	210	220	225	240	265	310	400	365	305	285	275	Mean

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

Characteristic : h'F
Unit : Km.
Month : September 1960

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

Latitude 10°2'N
Longitude 77°5'E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	230	220	240	240	240	300	250	230	215	210	200 _H	C
2	260	230	225	220	230	240	240	220	220	220	200	230
3	270	250	250	220	240	280	260	260	260 _B	250	230	B
4	240	240	260	270	245	240	250	250 _A	220	205	205	205
5	220	230	245	275	E	335	260	250	235	C	220	220
6	A	275	260	275 _B	E	300	255	235	225	225	215	205
7	240	220	245	240	260	300	245	220 _H	210	215 _H	200 _H	215
8	270	260	275	240	220	240	C	230 _H	215 _H	200	200	200 _H
9	270	260	245	235	225	240	255	225	205 _H	220 _H	205	205
10	270	260	230	225	220	230	250	225 _H	205 _H	205 _H	200 _H	195
11	320	340	320	260	220	230	240	220	200 _H	C	C	C
12	280	280	240	220	220	260	260	230	205	200 _H	200	200
13	240	240	240	260	260	240	250	230	220	215	205	220
14	260	240	240	240	235	240	260	240	220	200	210	200
15	225	240	260	240	240	260	260	240	220	C	210	205
16	250 _F	235	250 _F	245 _F	230 _F	250 _F	250	230	215	200	200	210
17	250 _F	235	240	235	235	240	255	235	220	200 _H	190 _H	210
18	275 _F	230 _F	230 _F	240	270 _F	270	260	240	220	215	205	200
19	235 _F	240 _F	240 _F	260 _F	235 _F	250 _F	260	240	220	215	210	205
20	230	235 _F	240 _F	240 _F	245 _F	260 _F	260	240	225	225	220	220
21	240	235	240	230	230	270	255	230	225	210	200 _H	205
22	240	240	240	230	235	240	250	235	220	200	215 _H	215
23	255	230	235	235	235	255	255	230	220	210	210	205
24	235	220	225	220	240	265	245	235	230	220	220	210
25	275	230	225	235	225	235	245	225	225	220	210	205
26	240	245	255	240	240	240	250	235	205	205	200	B
27	240	235	260	250	225	255	255	240	225	220	220	220
28	240	245	270	270	245	250	260	230	220	220	225	215
29	250	255	250	240	235	240	250	240	235	210	220	215
30	240	240	250	240	255	260	260	250	230	220	215 _H	205
Count	29	30	30	30	30	30	29	30	30	27	29	26
Median	240	240	240	240	235	250	255	235	220	215	210	205
Mean	250	245	250	240	235	255	255	235	220	215	210	210

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

Characteristic : h'F

TABLE 30—contd.

Latitude 10.2° N

Unit : Km.

Ionospheric Data

Longitude 77.5° E

Month : September 1960

75°E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
210	A	215	230	240	270	300 F	260 F	280 F	300 F	300 F	280	1
B	220	240	A	A	280	320	400	300 F	300	300	260 F	2
u240 B	230	A	A	260	275	300	300	280	260	260	260	3
205	215	A	240	260	280	355	305	260	225	225	260	4
220	220	230	235	260	280	280	250	260	225	260	290	5
205	220	235	230	245	265	320	F	F	u300 F	A	260	6
205	200	210	230	240	270	320	u320 F	u320 F	280	280	300	7
200	210	220	220 H	A	A	330	370	300	280	300	300	8
210	210	220	230	260	280	360	F	F	280	u275 F	260	9
195	205	210	225	240	275	340	F	F	u245 F	u280 F	280	10
C	220	220	225	240	280	375	u400 F	u380 F	260 F	270	260	11
200	220	220	225	240	285	400	u420 F	C	250	260	260	12
210	220	220	230	245	280	400	u380 F	u360 F	300	280	280	13
200	220	220	C	C	280	400	u440 F	u300 F	310	250	240	14
220	210	225	230	250	300	395	u500 F	u320 F	400 F	300	u260 F	15
215	210	225	235	255	280	400	F	F	F	225 F	u260 F	16
200	210	225	230	245	280	u390 F	F	F	u360 F	u270 F	u260 F	17
210	220	235	235	250	280	400	F	u380 F	u320 F	F	255	18
B	225	A	250	260	295	u440 F	F	F	F	F	u245 F	19
220	220	220	230	255	290	415	F	F	F	u330 F	280	20
205	210	215	220	250	285	400	F	420 F	320	280	250	21
210	215	220	230	250	290	395	F	u400 F	300	315 F	290 F	22
205	215	215	230	250	295	405	u410 F	400	F	300	250	23
205	215	225	235	260	300	405	420	405 F	330	265	290	24
215	215	215	230	250	280	410	520	F	300	300	260	25
215	215	220	230	250	280	400	470	F	F	260	250	26
215	210	220	225	260	290	400	F	F	295	260	260	27
205	210	220	240	260	285	385	F	F	F	u240 F	240	28
215	220	220	215	260	290	400	F	F	u335 F	240	240	29
210	220	225	240	260	280	u365 F	F	F	F	F	240	30
27	29	27	27	27	29	30	16	16	23	26	30	Count
210	215	220	230	250	280	395	400	320	300	270	260	Median
210	215	220	230	250	285	375	385	335	295	275	265	Mean

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

Characteristic : h'E
 Unit : Km.
 Month : September 1960

TABLE 31
 Ionospheric Data
 75°E Mean Time

Latitude 10°2' N
 Longitude 77°5' E

Date	00'	01'	02'	03'	04'	05'	06'	07'	08'	09'	10'	11'
1								120	110	110	A	A
2								120	B	A	A	B
3								B	B	B	B	B
4							135	A	A	A	A	A
5							.	115	A	A	C	A
6								120	v115 _o	120	A	A
7							130	115	120	120	A	A
8								C	120	120	120	A
9								120	120	A	A	A
10								120	110	110	A	A
11								120	A	C	C	C
12								120	110	110	A	A
13								120	110	A	A	A
14								120	110	A	A	A
15								120	120	C	A	A
16								A	A	A	A	A
17								115	A	A	A	A
18								A	A	A	A	A
19								A	A	A	A	A
20								120	A	A	A	A
21								115	110	A	A	A
22								115	105	A	A	A
23								115	110	A	A	A
24								120	115	A	A	A
25								115	A	A	A	A
26								120	A	A	A	B
27								120	110	A	A	A
28								A	A	A	A	A
29								115	A	A	A	A
30								A	120	A	A	A
Count							2	22	16	6	1	..
Median							..	120	110	115	..	.
Mean							..	120	115	115	..	..

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

Characteristic : h' E

TABLE 31

Latitude 10.2° N

Unit : Km.

Ionospheric Data

Longitude 77.5° E

Month : September 1960

75°E. Mean Time

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

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

Characteristic : h'E
Unit : Km.
Month : September 1960

TABLE 31—*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							..	110	A	A	A	C
2							120	110	A	110	A	B
3							B	A	B	B	B	B
4							125	A	A	A	A	A
5							—	115	A	C	A	A
6							120	115	A	120	A	120
7							120	120	120	A	115	A
8							C	120	120	110	A	A
9							120	115	120	A	A	A
10							120	110	110	A	A	A
11							120	120	120	C	C	C
12							120	120	110	A	A	A
13							120	115	A	A	A	A
14							120	115	A	A	A	A
15							..	120	A	C	A	A
16							120	A	A	A	A	A
17							120	A	A	A	A	A
18							120	A	A	A	A	A
19							A	A	A	A	A	A
20							145	A	A	A	A	A
21							120	115	110	A	A	A
22							..	110	A	A	A	A
23							120	110	A	A	A	A
24							115	115	110	A	A	A
25							120	120	A	A	A	A
26							..	A	A	A	B	B
27							.	115	A	A	A	A
28							.	A	A	A	A	A
29							125	A	A	A	A	A
30							110	A	A	A	A	A
Count							20	19	8	3	1	1
Median							120	115	115	..	..	..
Mean							120	115	115	..	..	..

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

Characteristic : h'E

TABLE 31—*contd.*

Latitude 10.2° N

Unit : Km.

Ionospheric Data

Longitude 77.5° E

Month : September 1960

75°E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	120	120	A								1
B	A	A	A	A								2
B	120	A	A	A								3
A	A	A	A	A								4
A	A	A	B	..								5
120	120	120	120	120	145							6
A	A	120	120	120	..							7
120	A	120	120	A	A							8
A	A	120	120	A								9
A	A	120	120	A								10
C	120	120	120	120								11
110	A	120	A	120								12
A	A	120	120	A								13
110	B	A	C	C								14
A	A	120	120	120								15
A	A	A	A	A								16
A	A	A	120	A								17
A	A	A	A	A								18
B	A	A	A	..								19
A	A	A	A	A								20
A	A	A	A	..								21
A	A	120	A	A								22
A	A	110	120	A								23
A	A	A	A	A								24
A	A	A	A	..								25
A	A	A	A	..								26
A	A	A	A	..								27
A	A	A	A	..								28
A	A	A	A	A								29
A	A	A	A	..								30
4	3	12	11	5	1							Count
..	..	120	120	120	..							Median
..	..	120	120	120	..							Mean

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

Characteristic : h'Es

Unit : Km

Month : September 1960

TABLE 32
Ionospheric Data
75°E Mean Time

Latitude 10.2° N
Longitude 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								110	100	100	100	100
2								105	100	100	100	100
3								G	110	100	100	100
4				110			G	105	100	100	100	100
5								G	100	100	C	100
6	125	120	120	120	120	.	.	115	100	100	100	100
7	120	..	..	120	..		G	110	100	100	100	100
8								C	100	100	100	100
9	125							G	100	100	100	100
10	..							G	100	100	100	100
11	105	120	120	115				105	105	C	C	C
12	115	105	100	..	..	125		105	100	100	100	100
13	120	120	..	115				110	100	100	100	100
14								G	100	100	100	100
15								110	100	C	100	100
16								105	100	100	100	100
17								G	100	100	100	100
18	110							100	100	100	100	100
19				120				105	100	100	100	100
20								G	100	100	100	100
21								105	100	100	100	100
22								105	100	100	100	100
23								105	100	100	100	100
24								G	G	100	100	100
25								G	100	100	100	100
26								125	100	100	100	100
27								G	100	100	100	100
28								100	100	100	100	100
29	135							110	110	100	100	100
30					120			100	G	100	100	100
Count	8	4	3	6	2	1		19	28	28	28	29
Median	120	.		120	..	..		105	100	100	100	100
Mean	120			115	..	..	..	105	100	100	100	100

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

Characteristic : h'Es
 Unit : Km.
 Month : September 1960

TABLE 32
 Ionospheric Data
 75°E. Mean Time

Latitude 19° 2' N
 Longitude 77° 5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	105	115						120	1
100	100	100	100	100	100	100			135	130	130	2
100	110	100	100	100	100	110		140	100	120	130	3
100	100	100	100	G	100				..		..	4
100	100	100	100	100	100			100	..		110	5
100	100	100	105	115	120					120	120	6
100	100	100	100	100	115						..	7
100	100	100	105	110	100	100			125	100	150	8
100	100	100	100	100	100							9
100	100	100	100	100	100							10
C	C	100	100	110	115						115	11
100	100	100	100	115	120						130	12
100	100	100	105	110	120					120	120	13
100	100	100	C	100	110							14
100	100	100	105	110	120							15
100	100	100	100	100	110							16
100	100	100	100	100	115							17
100	100	100	100	100	100		C					18
100	110	110	110	110	..							19
100	100	100	100	110	115							20
100	100	100	100	100	100				155	120	110	21
100	100	100	100	100	110						110	22
100	100	100	100	100	100						..	23
100	100	100	100	100	100						125	24
100	100	100	100	105	..					125	..	25
100	100	100	100	110	..							26
100	100	100	110	100	.							27
100	100	100	100	100	120				130	120	130	28
100	100	100	100	100	100						..	29
100	100	100	100	100	..						115	30
29	29	30	29	29	24	3		2	5	8	14	Count
100	100	100	100	100	110				130	120	120	Median
100	100	100	100	105	110				130	120	120	Mean

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

Characteristic : h'Es
Unit : Km.
Month : September 1960

TABLE 32—*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							..	105	100	100	100	C
2							G	100	100	100	100	100
3			130				G	110	100	100	100	100
4				110			105	100	100	100	100	100
5				..			..	G	100	C	100	100
6	120	120	120	120			G	110	100	100	100	100
7	.		120				G	105	100	100	100	100
8	..						C	100	100	100	100	100
9	130						G	105	100	100	100	100
10	.						G	105	100	100	100	100
11	105	120	105	100			110	100	100	C	C	C
12	110	105					G	105	100	100	100	100
13	.						G	100	100	100	100	100
14	120						G	100	100	100	100	100
15							..	100	100	C	100	100
16							G	100	100	100	100	100
17							G	100	100	100	100	100
18				105	105		125	100	100	100	100	100
19							110	105	100	100	100	100
20							G	100	100	100	100	100
21							G	105	100	100	100	100
22							..	105	100	100	100	100
23							G	100	100	100	100	100
24							G	105	105	100	100	100
25	110						G	105	100	100	100	100
26							..	100	100	100	100	100
27							..	G	100	100	100	100
28							..	100	100	100	100	100
29							G	110	110	100	100	100
30	135						110	100	100	100	100	100
Count	7	4	3	4	1		5	28	30	27	29	28
Median	120	.	..	..	..		110	100	100	100	100	100
Mean	120	..	..	..	..		110	105	100	100	100	100

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : h'Es
 Unit : Km.
 Month : September 1960

TABLE 32—*contd.*
 Ionospheric Data
 75°E Mean Time

Latitude 10·2° N
 Longitude 77·5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	110	..							1
100	100	100	100	100	100	100			130	130		2
G	110	100	100	100	100			140	140	..		3
100	100	100	100	100	..			..	..	..		4
100	100	100	100	..	..			115	..	..	120	5
100	100	105	105	115	120		140	..	..	120	125	6
100	100	100	100	115	120			..	..	120	..	7
100	100	100	110	100	100			140	100	100	125	8
100	100	100	100	100	120			..	..	..	..	9
100	100	100	100	100	.			..	..	..	..	10
C	100	100	110	115	..			120	..	..	140	11
100	100	100	100	120	120					..	135	12
100	100	105	110	100	120					120	120	13
100	100	100	C	C	120					..	..	14
100	100	100	105	120	..					120	..	15
100	100	100	100	110							..	16
100	100	100	G	100							105	17
100	100	100	100	100								18
105	110	115	110	120								19
100	100	100	105	110								20
100	100	100	100	100						120	..	21
100	100	100	100	100						125	110	22
100	100	100	100	100	100					125	..	23
100	100	100	100	100	100	100				..	..	24
100	100	100	105	105						..	..	25
100	100	100	100	..							..	26
100	100	100	110	120					130	135	..	27
100	100	100	100	115							140	28
100	100	100	100	100							..	29
100	100	100	100	115							120	30
28	30	30	28	27	10	1	1	4	4	10	10	Count
100	100	100	100	100	120	..	..	.	..	120	120	Median
100	100	100	100	105	110	..	..	..	..	120	125	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 : September 1960

75°E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	3 10	3 20	3.25	3.05	3.20	3.40	3 10	3.05	2.65	2.30	2.40	2.40
2	2 75 _F	F	F	3 40	3.40	3 35 _H	3.25	3.10	2.70	2.30	2.50	2.50
3	2 90	3.00	3 15	3 20	3 20	3.20	3 10	3.20	2.95	2 60	2 25	2.15
4	3 05	3.10	3.00	2.90	3 05	3 20	3.10	3.10	2 70	2 20	2.40	2.40
5	3 05	3.25	3 20	3.00	3.05	E	2 90	2 95	2.60	2.20	C	2.35
6	3 10	3 00	3 00	3 20	3 20	E	3 00	2 90	2 50	2 40	u2 55 _C	u2 30 _C
7	3 20	3 30	3 30	3.40	3 50	E	3.00	3 00	2.60	2 30	2 50	2.30
8	3 00	3 10	3 00	2 95	3 15	3 50	3 10	C	2 70	u2.35 _R	2 20	2 40
9	2.90	3 10	3 05	3 05	3 20	3 50	3 05	3 00	2 60	2 20 _H	2.50	2 25
10	3.05	u3 15 _F	u3.10 _S	3 05	3.30	3 25	3 20	3 10	2.80	2 40	2.15	2.25
11	F	F	F	F	F	F	u2.90 _F	2 70	2 40	C	C	C
12	F	F	2 95	3 15	3 40	3 10	3 00	2 80	2.40	2 30	2.30	2.20
13	2 90	3.10	F	2 95	2.90	3.20	3.05	2.80	2.40	2 45	2 30	2.30
14	2 75	2.90	F	3 10	3 00	3 15	3.20	3 10	2 75	2.20	2.25	2 25
15	3 05	3 10	3.00	3.00	3.00	3.30	2 95	2.90	2 60	C	2.20	2.15
16	F	F	u2 90 _F	F	F	F	3 00	2 90	2 50	2 15	2 20	2.20
17	F	F	2.95	3 00	3.15	3.20	3 00	3.00	2 65	2 40	2 15	2.10
18	F	F	F	F	F	F	F	2 85 _F	2 65	2.20	2.25	2.15
19	u3.05 _F	F	u3 00 _F	2.90 _F	F	F	2 95	2.90	2 60	2.20	2.20	2.20
20	F	F	3 05 _F	F	F	F	3.05	2 95	2.80	2.30	2 20	2.20
21	F	F	u3.10 _F	3.15 _F	3 15	3 30	3.00 _F	2.95	2.65	2.25	2.20	2.20
22	F _S	F	3 00	3 05	3 15	3 45 _F	3 10	3.00	2.55	2 15	2.20	2.20
23	F	3 10 _F	u3 15 _F	u3 10 _F	3.20	3 20	2.95	2 95	2 60	2 25	2 20	2.25
24	F	3 05	F	3.20	3 25	3.20	3.15	3.00	2.85	2 70	2 25	2 20
25	2.90	u3.15 _F	F	F	3 20	3.35	3.00	3 10	2.80	2.50	2.10 _H	2 20
26	F	u3 25 _S	u3 15 _S	F	3 10	3 20	u2.95 _F	3 10	2 75	2 30	2.40	2.35
27	F	F	3 10 _F	F	F	F	3 10	3 20	2.90	2.70	2 25	2.30
28	3.05	3 10	F	u3 10 _F	3.10	F	u3 10 _F	2.70	2 40	2.40	2 40	2 35
29	F	F	F	u2 95 _F	F	F	3.20	2 95	2 60	2.30	2.35	2.30
30	F	u3.20 _F	u2 90 _F	3.00	3.15	3 10	3 10	3 00	2.60	2.35	2.30	2.40
Count	16	18	.21	23	23	19	29	29	30	28	28	29
Median	3.05	3 10	3 05	3.05	3.15	3.20	3.05	3 00	2 60	2.30	2 25	2.25
Mean	3 00	3 10	3.05	3 10	3.15	3.25	3.05	2 95	2.65	2 35	2.30	2.25

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 : September 1960

75° E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.40	2.40	2.50	2.60	2.60	2.50	2.40	F	F	F	F	F	1
2.40	2.35	2.40	2.50	2.55	2.70	2.65	u2.40s	F	F	F	2.70	2
2.25	2.50	2.45	2.55	2.65	2.65	2.60	2.55	2.80	2.90	u2.90s	3.00	3
2.15	2.35	2.45	2.50	2.50	2.55	2.40	2.30	2.60	2.95	2.85	2.95	4
2.30	2.10	2.25	2.50	2.60	2.70	2.70	2.80	2.85	2.95	2.80	2.85	5
2.45	2.40	2.40	2.30	2.25	j2.35s	u2.45s	2.40	u2.40s	u2.60s	u2.85s	3.00	6
2.40	2.30	2.30	2.30	2.30	2.40	2.40	2.40	2.55	2.70	2.85	2.90	7
2.25	2.15	2.20	2.30	2.40	2.45	2.45	2.30	2.40	u2.70s	2.80	2.90	8
2.20	2.30	2.25	2.30	2.30	2.40	u2.40s	2.05	F	F	F	F	9
2.20	2.20	2.25	2.25	2.40	2.40	2.40	2.30	2.10	u2.20F	F	F	10
C	C	2.15	2.15	2.25	2.25	2.15	2.00F	F	F	F	2.85F	11
2.20	2.15	2.25	2.35	2.35	2.30	2.20	F	F	F	F	F	12
2.30	2.20	2.20	2.25	2.30	2.30	2.15	F	F	F	F	F	13
2.30	2.25	2.20	C	u2.10s	u2.00s	2.00	F	F	u2.40F	2.60	2.90	14
2.15	2.15	2.15	2.20	2.15	2.05	1.95	1.90F	F	F	F	F	15
2.15	2.10	2.15	2.25	2.30	2.30	u2.15s	F	F	F	F	F	16
2.15	2.25	2.30	2.40	2.45	2.45H	2.25H	F	F	F	F	F	17
2.10	2.10	2.10	2.20	2.25	2.20	2.15	C	F	F	F	F	18
2.25	2.30	2.30	2.30	2.30H	2.10H	2.00H	F	F	F	F	F	19
2.20	2.10	2.10	2.20	2.10	2.05	2.00	F	F	F	F	F	20
2.15	2.20	2.20	2.20	2.20	2.30	2.15	2.00	2.15	F	F	u3.05F	21
2.20	2.25	2.25	2.30	2.30	2.30	2.15	1.90	F	F	F	F	22
2.10	2.15	2.20	2.35	2.40	2.40	2.15	S	F	F	F	F	23
2.20	2.15	2.25	2.30	2.30	2.30	2.15	2.00	F	F	F	F	24
2.30	2.20	2.25	2.25	2.30	2.20	2.10	j1.90F	F	F	F	F	25
2.30	2.25	2.25	2.35	2.40	2.45	2.40	u2.05F	F	F	F	F	26
2.35	2.25	2.30	2.35	2.40	2.35	2.30	2.05	F	F	F	2.95	27
2.35	2.30	2.30	2.30	u2.25s	2.30	2.15	2.00	F	F	F	F	28
2.20	2.30	2.40	u2.35s	2.30	u2.30s	2.20	F	F	F	F	3.10	29
2.30	2.40	2.45	2.40	2.40	2.30	u2.15R	u2.05F	F	F	F	F	30
29	29	30	29	30	30	30	19	8	7	8	11	Count
2.25	2.25	2.25	2.30	2.30	2.30	2.20	2.05	u2.50	u2.70	u2.85	2.95	Median
2.25	2.25	2.25	2.35	2.35	2.35	2.25	2.15	u2.50	u2.75	u2.80	2.95	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 : September 1960

75° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	3.20	3.20	3.20	3.15	3.30	2.75	3.10	2.85	2.50	2.35	2.40	C
2	F	F	3.35	3.35	3.35	2.80	3.20	2.90	2.45	2.30	2.50	2.40
3	F	3.10	3.00	3.35	3.35	2.80	3.20	2.65	2.80	2.45	2.05 ^H	2.25
4	3.15	3.00	3.00	2.95	3.10	3.15	3.15	2.90	2.45	2.20	2.40	2.30
5	3.20	3.25	3.20	2.95	E	2.30	3.00	2.90	2.40	C	2.40	2.25
6	3.00	3.00	3.15	3.30	E	2.65	3.00	2.70	2.35	2.60	2.45	2.35
7	3.30	3.30	3.20	3.40	3.50	2.60	3.15	2.90	2.35	2.45	2.40	2.35
8	3.05	3.05 ^s	2.90	3.00	3.40	2.80 ^H	C	2.85	2.45	2.30	2.40	2.40
9	3.05	3.00	3.00	3.10	3.35	2.65 ^H	3.15	2.85	2.30	2.40	2.35	2.25
10	3.00	FS	3.20 ^F	3.15	3.35	3.30	3.15	3.00	2.60	2.15	2.30	2.20
11	F	F	F	F	F	F	3.2.85 ^F	2.60	2.35	C	C	C
12	F	3.2.80 ^s	3.05	3.25	3.20	3.15	3.3.00 ^s	2.55	2.40	2.30	2.25	2.20
13	3.3.00 ^s	3.3.10 ^s	3.3.05 ^{FS}	2.90	3.10	3.30	3.00	2.60	2.45	2.35	2.40	2.30
14	F	3.00	3.10	3.15	3.15	3.25	3.20	2.90	2.50	2.20	2.25	2.25
15	3.10	2.90	2.90	F	3.20	2.65	3.00	2.80	2.45	C	2.20	2.15
16	F	3.3.05 ^F	F	3.3.05 ^F	F	F	3.00	2.70	2.25	2.25	2.20	2.15
17	3.2.75 ^F	3.3.05 ^F	3.00	3.3.05 ^s	3.15	3.00	3.05	2.85	2.50	2.25	2.15	2.10
18	F	F	F	3.3.10 ^F	F	F	F	2.70	2.40	2.25	2.25	2.10
19	F	3.3.00 ^F	F	F	F	F	3.05	2.80	2.40	2.10	2.20	2.20
20	F	F	3.3.15 ^F	F	F	3.2.70 ^F	3.10	2.90	2.50	2.10	2.30	2.20
21	3.2.95 ^F	3.3.05 ^F	F	3.15	3.30	F	3.05	2.80	2.45	2.15	2.20	2.20
22	3.05	3.00	F	F	F	3.00	3.05	2.80	2.40	2.20	2.20	2.20
23	3.00	3.3.00 ^s	F	3.15	3.10	3.00	3.05	2.75	2.45	2.10	2.20	2.20
24	F	3.3.05 ^s	3.20	3.25	3.25	2.65	3.25	2.90	2.80	2.50	2.00 ^H	2.25
25	2.95	FS	F	3.10	3.25	2.85	3.10	2.95	2.70	2.25	2.20	2.30
26	F	F	3.00	F	3.15	3.00	3.3.00 ^F	3.00	2.60	2.20	2.30	2.35
27	F	F	3.05	F	3.3.20 ^F	2.75	3.15	3.10	2.85	2.55	1.95 ^H	2.30
28	3.10	3.10	F	3.00	F	3.3.15 ^F	3.2.95 ^F	2.55	2.40	2.45	2.35	2.35
29	3.3.10 ^F	F	F	F	F	3.40	3.05	2.75	2.35	2.35	2.30	2.30
30	3.3.15 ^F	3.00	F	3.05	3.15 ^F	3.10	3.05	2.80	2.50	2.30	2.45	2.30
Count	18	21	19	22	20	25	28	30	30	27	29	28
Median	3.05	3.05	3.05	3.10	3.20	2.85	3.05	2.80	2.45	2.30	2.30	2.25
Mean	3.05	3.05	3.10	3.15	3.25	2.90	3.05	2.80	2.50	2.30	2.30	2.25

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

Characteristic : (M3000)F2
 Unit
 Month : September 1960

TABLE 33—Contd.
 Ionospheric Data
 75° E Mean Time

Latitude: 10.2°N
 Longitude: 77.5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.40	2.45	2.60	2.60	2.55	2.45	F	F	F	F	F	2.70	1
2.40	2.35	2.50	2.55	2.65	2.65	2.55	2.40	2.55	F	2.75	F	2
2.35	2.50	2.50	2.60	2.65	2.65	2.55	2.60	2.80	2.90	2.90s	3.00	3
2.05	2.40	2.45	2.45	2.50	2.50	2.30	2.45	2.75	2.95	2.85	3.05	4
2.25	2.10	2.40	2.60	2.65	2.70	2.75	2.80	2.90	2.95	2.75	3.00	5
2.45	2.45	2.35	2.30	2.30	2.40s	2.40	2.35	S	2.70	2.90	3.05	6
2.35	2.35	2.30	2.30	2.30	2.45	2.35	2.50	2.60	2.80	2.90	2.90	7
2.25	2.15	2.25	2.35	2.40	2.45	2.35	2.30	2.50	2.75s	2.80	2.90	8
2.20	2.30	2.30	2.25	2.45s	2.40s	2.20	F	F	F	F	2.90F	9
2.20	2.20	2.30	2.35	2.40	2.35	2.30s	2.15	2.25F	F	F	F	10
C	2.20	2.20	2.20	2.25	2.20	2.05	F	F	F	F	2.85	11
2.20	2.25	2.30	2.35	2.35	2.20	2.05R	F	C	F	F	F	12
2.20	2.20	2.30	2.30	2.35	2.25	2.00s	F	F	F	F	F	13
2.25	2.20	2.20	C	C	2.00	2.00	F	F	F	2.70FS	F	14
2.10	2.15	2.20	2.20	2.10	2.00	2.00	F	F	F	F	F	15
2.15	2.10	2.20	2.30	2.30	2.20	2.00	F	F	F	F	F	16
2.20	2.30	2.35	2.45	2.45	2.40H	2.15H	F	F	F	F	2.65F	17
2.10	2.10	2.15	2.20	2.20	2.20	2.05	F	F	F	F	F	18
2.30	2.30	2.30	2.30	2.20H	2.10H	1.90H	F	F	F	F	F	19
2.10	2.10	2.15	2.20	2.10	2.00	1.95	F	F	F	F	F	20
2.15	2.20	2.20	2.20	2.25	2.25	2.10	2.00F	F	2.60F	F	2.95	21
2.20	2.25	2.25	2.30	2.30	2.25	2.05	F	F	F	F	F	22
2.10	2.15	2.30	2.35	2.40	2.30	2.05	FS	F	F	2.15F	2.30F	23
2.20	2.20	2.20	2.30	2.35	2.30	2.05	2.10	F	F	F	F	24
2.25	2.25	2.25	2.25	2.30	2.20	2.00	F	F	F	F	F	25
2.25	2.20	2.35	2.40	2.45	2.40	2.25	2.10F	F	F	F	3.05	26
2.30	2.20	2.35	2.35	2.45	2.35	2.20	F	F	F	2.70	F	27
2.30	2.30	2.30	2.30	2.35	2.25	2.10	F	F	2.60	F	F	28
2.30	2.30	2.35	2.30	2.30	2.30	2.05	F	F	F	2.95	F	29
2.35	2.40	2.45	2.40	2.35	2.20	2.10s	F	F	F	F	FS	30
29	30	30	29	29	30	29	11	7	8	11	13	Count
2.25	2.20	2.30	2.30	2.35	2.30	2.10	2.35	2.60	2.80	2.85	2.95	Median
2.25	2.25	2.30	2.35	2.35	2.30	2.15	2.35	2.60	2.80	2.85	2.95	Mean

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

Characteristic : foF₂
 Unit : Mc.
 Month : October 1960

TABLE 34
 Ionospheric Data
 75°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	11.6	11.0	8.0	F	F	F	u6.8 _F	10.2 _F	12.2	12.0	11.8	11.7
2	14.4	11.1	7.5	5.4	4.6	4.6	7.3	10.0	11.8	11.8	11.8	11.8
3	11.0	9.7	9.4	9.3	7.1	4.0	6.6	10.4	12.0	12.8	11.9	11.5
4	12.0	11.0	7.7	5.8	4.5	3.9	6.9	10.4	12.0	12.0	10.8	10.3
5	F	F	F	F	10.4 _F	F	F	F	12.7 _H	12.0	11.6	11.4
6	u11.6 _s	12.2	9.9	6.4	E	R	7.3	10.5	10.7	10.8	10.4	11.8
7	10.4	11.4	11.4	9.2	7.6	7.3	8.2	11.0	11.4 _H	11.3	C	13.5
8	11.8	9.6	8.3	7.1	3.6	E	7.8	11.5	13.1	15.0	15.0	14.9
9	9.5	8.7	7.7	6.6	5.5	4.5	7.1	10.3	12.4	13.3	11.8 _H	11.2
10	11.4	11.6	9.4	7.6	4.7	2.4	6.8	10.0	12.3	13.0	12.0	11.4
11	11.2	F	u7.8 _F	6.4	F	u5.0 _F	7.7	10.8	12.6	13.8	13.2 _H	10.7
12	11.3	10.9	8.2	6.6	5.3	3.8	7.3	10.6	12.4	13.7	14.1	11.9
13	F	8.8	F	F	F	F	u7.2 _F	10.5	12.2	13.4	13.2	11.5
14	F	u8.6 _F	7.3	5.7 _F	F	3.9	7.1	10.4	12.0	12.8	12.0	11.7
15	F	u10.9 _F	8.3	5.3	F	F	F	10.2	12.2	13.0	12.0	11.0
16	11.0	12.1	11.0	9.5	7.5	5.8	8.0	10.8	11.7	12.3	12.5	12.3
17	F	F	8.3	F	5.8	4.2	7.0	10.4	11.6	11.0	10.0	9.9
18	9.8	F	7.8	u6.4 _F	u5.3 _F	F _H	u7.2 _F	10.2	12.0	13.2	12.5	10.9
19	12.8	11.5	10.5	9.1	8.4	8.8	10.4	11.6	12.7	12.5	11.8	11.5
20	10.8	11.7	10.6	9.3	8.6	8.5	9.8	11.7	13.3	14.1	12.8	11.8
21	F	11.0	9.0	6.4	4.0	3.1	7.1	10.2	11.8	12.5	12.0	11.4
22	11.3	11.2	10.1	F	7.0	6.8	8.4	10.8	12.4	12.8	11.6	11.2
23	C	C	C	C	C	C	6.4	9.8	11.2	11.4 _H	10.2	10.0
24	F	F	F	8.2	5.6	F	6.3	9.2	11.7	12.4	10.8	10.4
25	F	F	F	F	7.4	F	F	10.2	11.6	11.7	10.8	10.7
26	11.2	10.6	u9.2 _s	8.2	9.8	8.1	8.8 _H	11.2 _H	12.0	12.7	13.0	12.6
27	9.9	9.5	C	9.4	8.4	7.2	C	10.0	C	C	C	C
28	C	C	C	C	C	C	C	9.4	11.1	12.1	11.8	u11.7 _s
29	11.0	u10.0 _s	10.4	u9.5 _s	8.2	5.5	6.6	9.5	u11.8 _s	12.8	11.6	11.4
30	12.6	12.2	8.6	5.6	3.6	2.9	6.1	u9.7 _s	12.0	13.0	12.7	12.3
31	11.0	10.5	7.9	6.8	u6.0 _s	5.1	6.7	10.2	12.3	12.8	12.2	11.3
Mean	11.3	10.7	8.9	7.4	6.5	5.3	7.4	10.4	12.0	12.6	12.0	11.5
Median	11.2	11.0	8.4	6.8	5.9	4.6	7.2	10.4	12.0	12.8	11.9	11.4
Count	21	23	24	23	24	21	26	30	30	30	29	30

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

Characteristic : foF₂
 Unit : Mc.
 Month : October 1960

TABLE 34
 Ionospheric Data
 75°E Mean Time

Latitude: 10°2' N
 Longitude: 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.2	12.7	12.8	12.6	12.4	11.8	11.8	11.8	u10.7F	u12.0F	F	u14.1F	1
11.7	11.3	11.9	11.8	11.6	11.2	11.2	11.4	12.5	12.1	12.7	11.0	2
11.8	12.2	12.7	13.3	13.3	13.1	12.5	11.8	12.7	12.8	12.8	12.1	3
10.3	10.9	11.8	12.8	13.0	12.8	11.5	F	F	u10.1F	F	F	4
11.4	12.0	12.8	13.4	14.0	14.2	13.1	11.4	F	F	12.2	F	5
12.4	13.4	14.4	14.2	13.2	12.1H	12.8	13.4	11.6	10.2	9.1	9.5	6
13.2	14.2	14.6	14.4	14.8	15.6	14.2	13.9	13.4	13.2	13.0	13.0	7
14.8	13.6	13.6	13.8	13.8	13.6	13.0	11.3	10.4	10.1	10.6	10.7	8
11.2	11.7	12.2	12.4	12.0	u11.8s	11.7	11.6	11.0	10.8	11.6	11.7	9
11.2	11.6	12.0	12.5	12.8	12.5	11.0	9.4	u8.4F	F	F	11.2F	10
11.3	12.4	13.1	13.5	13.9	14.1	13.4	F	F	F	F	F	11
11.1	11.0	11.1	11.0	11.0	10.9	10.0	F	F	F	F	F	12
11.4	11.7	11.8	11.4	11.2	10.7	9.9	F	F	F	F	F	13
12.1	12.5	12.8	12.8	12.6	u11.8s	10.9	u8.4F	F	F	F	F	14
11.4	12.1	12.6	12.9	12.1	u10.7s	9.4	8.8	9.1	9.6	u12.3s	12.6	15
12.3	12.3	12.7	C	u11.9s	11.4	9.6	F	F	C	9.8	F	16
9.8	10.3	10.8	11.0	11.0	10.5	u9.8s	F	F	F	F	F	17
11.0	11.0	11.4	12.2	12.6	12.8	13.3	13.4	12.9	12.8	12.3	12.9	18
11.5	11.8	11.9	12.3	u11.9s	11.4	11.0	u9.5F	F	F	10.0	10.5	19
12.3	12.7	13.8	14.1	14.6	13.8	u12.1R	C	F	F	F	F	20
11.6	12.0	12.8	13.6	13.6	13.7	12.6	u9.4s	F	F	F	F	21
11.5	11.6	11.6	12.3	12.8	12.8	12.8	F	F	F	F	F	22
10.0	10.5	11.2	12.0	12.6	12.7	j12.2R	F	F	F	F	F	23
10.6	11.0	11.8	12.8	13.4	13.6	12.8	11.0	F	F	F	F	24
10.4	10.8	11.6	12.5	12.4	11.4	10.6	u9.6s	F	F	F	F	25
12.9	12.9	13.6	13.0	12.8	11.4	10.9	10.8	10.7	11.4	10.4	11.0	26
C	C	C	11.0	C	C	C	C	C	C	C	C	27
11.8	12.0	12.9	13.4	13.2	13.2	11.5	10.1	11.6	13.0	12.4	11.2	28
11.6	11.8	12.6	13.0	13.2	13.0	j12.1s	11.3	12.2	11.5	10.6	11.1	29
11.9	11.9	12.5	13.4	14.0	u13.2s	12.5	13.2	13.5	12.8	12.1	u11.7s	30
11.4	11.8	12.4	12.8	12.6	12.3	S	11.0	F	11.2	u12.4s	12.2	31
11.6	11.9	12.5	12.7	12.8	12.5	11.7	11.1	11.5	11.6	11.5	11.6	Mean
11.5	11.8	12.6	12.8	12.8	12.6	11.8	11.3	11.6	11.5	12.2	11.4	Median
30	30	30	30	30	30	29	21	14	15	16	16	Count

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

Characteristic : foF₂
Unit : Mc.
Month : October 1960

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

Latitude 10°2' N
Longitude. 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	11.0	10.1	F	F	F	F	u8.4 _F	11.4	12.5	11.9	11.6	11.7
2	12.8	8.7	6.5	4.7	4.6	5.6	9.0	11.1	11.8	11.8	11.8	11.8
3	10.6	9.7	9.8	8.3	5.8	4.3	9.1	11.3	12.6	12.5	11.8	11.6
4	11.6	9.5	6.4	5.2	4.2	4.0	9.2	11.5	11.7	11.3	10.6	10.2
5	F	F	F	11.4	u9.6	u8.7 _F	F	F	12.7	11.8	11.4	11.0
6	11.8	11.6	8.2	3.8 _H	E	4.5	9.6	10.6	11.0	10.0	11.6	11.8
7	11.3	10.9	11.3	7.6	6.9	7.6 _H	9.2	12.0	11.7 _H	12.0	C	13.0
8	10.4	8.9	7.7	5.8	2.5	4.8	9.8	12.1	14.2	15.0	15.0	14.7
9	9.4	8.1	7.2	6.1	5.1	4.5	8.9	11.4	13.3	13.0 _H	11.1	11.3
10	11.6	10.6	8.5	6.6	3.2	4.2	9.1	11.5	13.0	12.9	11.6	11.2
11	F	F	6.9	F	F	4.9 _F	9.3	12.0	13.1	13.8	u11.6 _R	10.8
12	11.1	F	7.3	5.8	4.5	4.7	9.4	11.3	13.1	14.0	12.9	11.5
13	F	F	u6.9 _F	F	F	F	9.2	11.4	12.9	13.7	12.5	11.1
14	F	8.0	6.4	5.0 _F	u4.4 _F	4.5	9.0	11.3	12.5	12.6	11.5	11.7
15	F	F	F	F	F	F	8.7 _F	11.3	12.8	13.0	11.1	11.2
16	11.5	11.9	10.3	8.6	6.5	6.2	9.5	11.5	11.8	12.5	12.4	12.3
17	F	9.0	u6.9 _F	6.4	5.2	4.4	9.0	11.1	11.5	10.4	10.0	9.8
18	9.0	8.6	7.4	F	F	F	9.2	11.4	12.8	13.1	11.8	10.8
19	u11.9 _S	10.9	9.8	8.7	8.5	9.8	11.0	12.5	12.6	12.2	11.6	11.3
20	11.1	11.6	9.5	8.8	8.5	9.0	10.9	12.3	13.6	13.8	12.1	12.1
21	11.4	10.2	7.8	5.2	3.3	4.3	9.2	11.1	12.6	12.6	11.6	11.4
22	11.0	11.2	8.8	7.7	7.0	6.6	10.0	11.7	12.8	12.2	11.4	11.3
23	C	C	C	C	C	C	8.2	10.8	11.6	10.2	10.0	9.8
24	F	F	F	7.0	4.4	u4.1 _F	8.1	10.5	J12.2 _R	12.2	10.4	10.4
25	F	F	10.6	F	F	F	F	11.4	11.8	11.2	10.6	10.5
26	11.0	9.6	8.5	8.8	9.2	8.0	10.4 _H	11.4	12.2	13.2	12.8	12.8
27	9.6	C	C	9.3	7.8	5.9	8.8	C	C	C	C	C
28	C	C	C	C	C	C	C	10.6	11.7	C	11.8	11.7
29	10.8	10.2	u10.0 _S	9.2	u7.0 _S	4.5	8.4	10.8	12.6	12.4	11.4	11.4
30	12.9	10.8	6.9	4.1	3.0	4.0	8.0	10.8	12.7	12.8	12.6	12.0
31	10.8	C	u7.2 _S	6.6	5.6	4.7	8.7	11.4	12.8	12.6	11.8	11.3
Mean	11.1	10.0	8.2	7.0	5.8	5.6	9.2	11.4	12.5	12.4	11.7	11.4
Median	11.1	10.2	7.8	6.6	5.2	4.7	9.2	11.4	12.6	12.5	11.6	11.4
Count	21	20	24	23	23	24	28	29	30	29	29	30

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

Characteristic · foF₂
 Unit : Mc.
 Month : October 1960

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

Latitude: 10.2° N
 Longitude: 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.4	13.0	12.8	12.5	12.1	C	11.6	10.7	u11.0 _F	F	F	14.1	1
11.4	11.7	12.1	11.8	11.6	11.2	11.4	11.8	12.4	12.4	11.9	11.2	2
12.1	12.5	12.8	13.4	13.1	12.8	12.2	12.4	12.9	13.1	12.2	12.0	3
10.6	11.4	12.6	13.2	13.0	12.3	10.5	8.8	F	u11.0 _F	F	F	4
11.7	12.4	13.0	13.8	14.2	14.0	12.0	10.9	F	F	12.0	F	5
12.6	14.2	14.2	13.7	12.7	12.2 _H	13.8	12.7	11.4	9.6	9.2	9.8	6
13.8	14.6	14.5	14.4	u15.2 _s	14.8	14.0	13.6	13.2	13.2	12.8	12.6	7
13.6	13.6	13.8	13.8	13.6	13.6	12.0	10.6	10.2	10.2	10.9	9.8	8
11.5	12.0	12.2	12.2	12.0	u11.8 _s	11.4	11.6	11.0	11.4	11.7	11.4	9
11.3	11.8	12.4	12.6	12.8	11.8	10.2	8.7	F	F	11.0	11.6	10
11.7	12.8	13.2	13.7	14.1	14.2	12.4	F	u11.5 _F	F	F	F	11
10.8	11.1	11.0	10.9	11.0	10.5	9.0 _F	F	F	F	F	F	12
11.4	11.8	11.6	11.3	10.9	10.6	F	F	F	F	F	u9.8 _F	13
12.3	12.5	12.7	12.7	11.9	11.5	u9.7 _s	F	F	F	F	F	14
11.8	12.3	12.9	12.7	u11.9 _s	9.5	9.1	u9.0 _F	F	F	12.9	11.7	15
12.4	12.5	C	C	11.4	10.7	F	F	F	C	u10.3 _s	F	16
C	10.5	10.8	11.0	10.8	10.4	8.7	F	F	F	F	10.8	17
11.0	11.0	11.6	12.4	12.8	13.1	13.3	13.3	12.8	12.5	12.3	12.9	18
11.5	11.8	12.2	12.0	11.7	11.4	10.5	F	F	9.5	u10.1 _s	10.7	19
12.5	13.4	14.0	14.3	14.3	u12.7 _R	F	F	F	F	F	u11.0 _F	20
11.8	12.6	13.4	13.6	13.6	13.0	11.0	F	F	F	F	F	21
11.6	11.6	u11.8 _s	12.8	13.0	13.0	12.3	F	F	F	F	C	22
10.4	10.6	11.6	12.4	C	12.6	11.4	F	F	F	10.4	F	23
10.8	11.5	C	13.2	13.6	13.4	u12.0 _s	u10.2 _F	F	F	F	F	24
10.2	11.2	12.4	C	u12.0 _s	C	u10.0 _s	F	F	F	F	u12.0 _F	25
13.0	13.2	13.4	13.0	u12.4 _s	11.0	10.7	10.8	11.0	11.0	10.8	10.6	26
C	C	C	C	C	C	C	C	C	C	C	C	27
11.8	12.2	13.1	13.2	u13.2 _s	12.6	10.6	10.5	12.9	13.2	11.7	11.2	28
11.8	12.1	12.9	13.2	13.0	12.5	11.6	11.6	12.3	10.8	11.0	11.4	29
12.0	12.1	12.9	13.7	13.7	13.0	12.6	13.7	13.0	12.4	u12.0 _s	11.5	30
11.7	12.5	12.6	12.9	12.6	12.3	11.6	10.6	u10.8 _F	11.7	13.0	11.2	31
11.8	12.2	12.7	12.9	12.7	12.2	11.3	11.2	11.9	11.6	11.5	11.4	Mean
11.7	12.2	12.8	13.0	12.8	12.4	11.4	10.8	11.9	11.6	11.7	11.3	Median
29	30	28	28	29	28	27	18	14	14	18	20	Count

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

Characteristic : foF₁
 Unit ; Mc.
 Month : October 1960

TABLE 35
 Ionospheric Data
 75°E Mean Time

Latitude: 10°2' N
 Longitude: 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								..	L	L	C	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	B
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
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
26								L	L	L	L	L
27								L	C	C	C	C
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	LH
31								L	L	L	L	L
Mean							
Median							
Count							

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

Characteristic : foF1
 Unit : Mc.
 Month : October 1960

TABLE 35
 Ionospheric Data
 75°E Mean Time

Latitude: 10°26' 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	A	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
B	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	C	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
C	C]	C	L	L	C							27
L	L]	L]	L	L	L							28
L	L	L'	L	L	L							29
LH	LH	LH	L	L	L							30
L	L	L'	L	L								31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	..	..	..	..	..							Count

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

Characteristic : foF₁
 Unit : Mc.
 Month : October 1960

TABLE 35—Contd.
 Ionospheric Data
 75°E Mean Time

Latitude: 10°2' N
 Longitude: 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4							L	L	L	L	L	L
5							..	L	L	L	L	L
6							..	L	L	L	L	L
7							..	L	L	L	C	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	B	B
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								C	C	C	C	C
28								L	L	C	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	LH	L	L
Mean						
Median						
Count						

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

Characteristic : foF₁
 Unit : Mc.
 Month : October 1960

TABLE 35—Contd.
 Ionospheric Data
 75°E Mean Time

Latitude: 10°2' N
 Longitude: 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L									1
L	L	L	L									2
L	L	L	L									3
L	L	L	L									4
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	C	C	L								16
O	L ₁	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
C	C	C	C	C								27
L	L	L	L	L								28
L	L	L _H	L	L								29
L _H	L	L	L	L								30
L	L	L	L	L								31
..	..	..	..	..								Mean
..	..	..	..	..								Median
.	..	..	..	..								Count

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : foE
Unit : Mc.
Month : October 1960

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								A	A	A	A	A
2								A	A	A	A	A
3							1.9	A	A	A	A	A
4								A	A	A	A	A
5								A	A	A	A	A
6								A	A	A	A	A
7								2.6	A	A	C	A
8							2.3	2.9	B	3.3	A	A
9								2.8	A	A	A	A
10								2.6	A	A	A	A
11								3.2	A	A	A	B
12								..	u3.3R	A	A	A
13								2.8	A	A	A	A
14								3.0	A	A	A	A
15								2.8	A	A	A	A
16								A	A	A	A	A
17							u1.9R	A	A	A	A	A
18								R	A	A	A	A
19								A	A	A	A	A
20								u2.8R	A	A	A	A
21								2.7	A	A	A	A
22								A	A	A	A	A
23								A	A	A	A	A
24								2.7	A	A	A	A
25								A	A	A	A	A
26								A	A	A	A	A
27								A	A	A	A	A
28								u2.7R	C	C	C	C
29								2.8	A	A	A	A
30								RH	A	A	A	A
31								F	A	A	A	A
								2.6	A	A	A	A
Mean							..	2.8	..	..	..	..
Median							..	2.8	..	.	.	..
Count							3	14	1	1	..	..

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

Characteristic : foE
 Unit : Mc.
 Month : October 1960

TABLE 36
 Ionospheric Data
 75°E Mean Time

Latitude: 10°2' N
 Longitude: 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A	A							1
A	A	A	A	A	A							2
A	A	A	A	A	..							3
A	A	A	A	A	..							4
A	A	A	A	A	..							5
A	3.7	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
B	A	A	A	A	A							11
A	A	A	A	A	A							12
A	A	A	A	A	A							13
A	A	A	B	A	A							14
A	3.9	A	A	A	..							15
A	A	A	C	A	..							16
A	A	A	A	F	R							17
A	A	U3.7R	R	A	A							18
A	A	A	A	A	A							19
A	A	A	A	A	A							20
A	A	A	3.2	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	A	..							25
A	A	A	A	A	A							26
C	C	C	A	C	C							27
A	A	F	A	F	F							28
A	A	A	A	A	B							29
A	A	U3.7F	A	F	F							30
A	A	A	F	A								31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	2	2	1	..	..							Count

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

Characteristic : foE
Unit : Mc.
Month : October 1960

TABLE 36—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								A	A	A	A	A
2								A	A	A	A	A
3							2.5H	A	A	A	A	A
4							A	A	A	A	A	A
5							2.3	A	A	A	A	A
6							R	A	A	A	A	B
7							..	A	A	A	C	A
8						1.9	2.6	B	3.3	A	A	A
9							2.4	3.1	A	A	A	A
10								2.8	A	A	A	A
11								R	A	A	B	B
12								B	u3.5R	A	A	A
13								3.1	A	A	A	A
14								A	A	A	A	A
15								A	A	A	A	A
16								A	A	A	A	A
17							u2.4R	A	A	A	A	A
18							..	F	A	A	A	A
19							..	A	A	A	A	A
20							..	3.1	A	A	A	A
21							A	A	A	A	A	A
22							..	A	A	A	A	A
23							2.3	A	A	A	A	A
24							2.3H	2.8	A	A	A	A
25							2.3	A	A	A	A	A
26							A	A	A	A	A	A
27							..	C	C	C	C	C
28							..	A	A	C	A	A
29							u2.4RH	F	A	A	A	A
30							F	3.0	A	A	A	A
31							2.3	F	A	A	A	A
Mean							2.4	3.0	.	..	..	.
Median							.	2.4	3.0		.	..
Count							1	10	6	2	.	..

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

Characteristic : foE
 Unit : Mc.
 Month : October 1960

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

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	..								1
A	A	A	A	A								2
A	A	A	A	A								3
A	A	A	A	A								4
A	A	A	A	..								5
A	R	A	A	A								6
A	A	A	A	A								7
A	A	A	A	A								8
A	A	A	A	A								9
B	A	A	A	..								10
A	A	A	A	..								11
A	A	A	A	A								12
A	A	A	A	A								13
A	A	A	A	A								14
A	A	A	A	..								15
A	A	C	C	A								16
C	A	A	A	F								17
A	A	U3.7R	3.2	A								18
A	A	A	A	A								19
A	3.7	A	A	..								20
A	A	3.4	A	..								21
A	A	A	A	A								22
A	A	A	A	C								23
A	A	C	U3.0A	A								24
A	A	3.4	C	A								25
A	A	A	A	A								26
C	C	C	C	C								27
A	A	A	A	A								28
A	A	A	A	B								29
A	A	A	A	F								30
A	A	A	A	..								31
..	..	..	..	..								Mean
..	..	..	..	..								Median
..	1	3	2	..								Count

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

Characteristic : fo Es
Unit : Mc.
Month : October 1960

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								7.6	10.2	10.6	12.0	12.0
2								7.6	10.0	12.0	12.0	12.0
3							G	4.4	10.0	12.0	12.0	13.0
4							2.8	7.6	11.4	11.6	11.5	12.0
5		5.8					..	7.0	8.6	11.0	11.6	12.6
6							..	7.8	10.3	10.8	11.8	12.8
7								G	9.4	11.4	C	12.8
8	5.8	5.8					G	9.6	5.6	12.4	12.0	12.0
9							3.8	G	8.6	11.8	11.5	11.8
10								G	8.0	11.0	11.4	12.0
11								G	10.0	10.6	11.2	B
12								..	G	9.0	11.5	11.8
13								G	8.4	10.6	11.4	12.0
14								6.6	9.0	11.0	12.0	11.8
15								G	9.4	11.4	11.2	11.8
16			2.9					8.8	10.7	11.0	12.0	12.0
17							G	8.6	10.6	11.0	11.8	11.4
18								8.4	10.0	11.0	11.6	12.0
19								7.2s	10.4	10.8	12.1	12.4
20								G	7.7	10.1	12.0	11.8
21								5.0	10.0	11.0	12.2	12.0
22	7.4							9.0	11.4	12.0	12.4	12.0
23	C	C	C	C	C	C		8.0	11.0	12.0	11.2	12.0
24	..							5.6	10.4	11.0	12.0	12.5
25	2.0							7.2	11.0	11.4	12.4	12.2
26	3.2				5.6		5.6	9.0	11.4	7.6	12.0	12.0
27	..		C				C	C	C	C	C	C
28	C	C	C	C	C	C	C	6.8s	9.4	11.2	13.0	13.2
29		1.7	4.5					G	10.2s	12.1	13.0	12.6
30							2.4	7.0s	8.6	11.3	12.4	13.0
31				2.3				G	10.3	12.0	13.0	12.4
Mean	..	.	.	.	..	.	.	7.3	9.9	10.9	12.0	12.2
Median	.	.	.	.	..	.	2.4	6.7	10.0	11.0	12.0	12.0
Count	4	3	2	1	1	..	7	30	30	30	29	29

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

Characteristic fo Es
Unit : Mc
Month . October 1960

TABLE 37
Ionospheric Data
75°E Mean Time

Latitude : 10°2'N
Longitude : 77°5'E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11 5	10 6	12 2	10 4	9.6								1
12 4	11 8	12 5	10 8	9.4	8 7							2
12 2	12 0	12.0	10.8	9.2	6 8							3
12 8	12 6	11 6	10 2	8 8	7.8					8.4	2.0	4
12 4	11 8	10 0	9 8	8 8					5.0	3 8	4 0	5
12.0	G	9 2	8 7	9 0	7 0				..	..	..	6
11 4	18 6	12 4	12 2	10 8	6 8			2.1	3 6	3 0	6.0	7
12 0	12 0	11 8	10 1	8.2	6 5				3 0	..	..	8
12 2	12 2	11 6	10 0	9 0	7 6				..	..	..	9
11 6	12 0	11 2	9.8	8 2						3.1	..	10
11 4	10 0	8.6	6 0	6.8								11
11.4	12 0	11 4	9 8	9 4							6 0	12
12 0	11.6	11.2	10 6	8 6							..	13
11.6	11 4	10.8	8 8	8.6	u8.0s					3 4	5 6	14
11 4	10 4	10 0	9 6	9 0	..						..	15
12 1	12 4	11 2	C	10.2	.				C		..	16
12 5	13 0	12 4	11 6	u8.4r	u6.8r						..	17
12 0	12 2	11.2	9 0	8 2	8 9						3 4	18
11 8	11 3	11 7	10 8	7 8						4 5	..	19
12 2	8 8	8.8	8 8	8.5			C				..	20
12 2	11 5	10 6	9.3	8.8							9 0	21
12 6	13 0	11 6	10 5	9 0								22
12 2	12 0	12 0	10 0	8.0	8 3						3.8	23
11 6	11 6	8 0	7 6	7 4	8.6				7.0		7 0	24
12 0	12.0	9.6	8 6	9 0	.						3 9	25
12 0	10 0	10 0	10 8	9.0	u6 0s						..	26
C	C	C	10.6	C	C	C	C	C	C	C	C	27
12 4	11 2	10 6	11.0	9.0	u7.6s						..	28
12 6	12 2	11 0	11 0	9.6	8 0						..	29
12 7	12 6	10 2	10 4	9 0	7.5						u10.0s	30
12 4	12 0	10 6	10 4	u9.4s	u6 8s						..	31
12 0	11 9	10 9	9 9	8.8	7 3					4 4	5 5	Mean
12 0	12 0	11 2	10.3	9 0	7 5					3.6	5 6	Median
30	30	30	30	30	17			1	4	6	11	Count

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

Characteristic fo Es
Unit : Mc.
Month : October 1960

TABLE 37—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								8.8	11.0	12.0	12.2	11.0
2								9.4	11.0	11.8	12.1	12.0
3							G	8.0	11.4	12.0	12.6	12.0
4							3.5	10.5	11.4	12.0	12.2	12.0
5	2.6		2.0				3.2	7.4	10.5	10.6	12.0	12.4
6	..						G	9.2	10.8	11.8	12.4	B
7	..							9.0	10.2	11.4	C	12.0
8	5.8	4.8				G	G	7.7	G	10.2	12.0	12.0
9							G	G	10.8	11.8	11.8	12.0
10					6.2			6.4	10.2	11.6	11.7	11.8
11								G	10.2	11.4	B	11.6
12								B	7.0	11.0	12.0	11.4
13	..	4.0						7.4	9.6	12.0	11.4	11.8
14								8.0	11.0	12.0	12.0	11.4
15								8.4	11.4	11.6	12.0	10.4
16								9.7	10.8	12.0	12.0	12.1
17							G	10.4	11.3	12.0	11.6	12.0
18								9.1	8.6	11.8	12.0	12.5
19								9.3	11.1	11.9	12.0	12.0
20								6.8	8.8	11.2	11.7	12.0
21							3.2	9.4	11.0	12.0	12.0	12.0
22								10.8	12.0	12.0	12.4	12.2
23							G	9.0	11.4	12.6	12.0	12.0
24							G	6.6	10.2	12.0	12.2	12.0
25	2.8	..	4.2	..	..	..	G	9.4	11.2	11.5	12.0	12.0
26	4.8	.	.	6.8	6.4	.	8.2	9.5	10.6	11.4	11.0	12.0
27								C	C	C	C	C
28							..	u9.0s	12.0	C	12.7	12.8
29		u5.0s	..				G	u8.0s	11.0	12.4	13.0	12.6
30	u3.2s						u7.0s	G	10.3	12.7	13.0	12.4
31							3.8	u9.0s	11.0	12.2	13.0	12.6
Mean	3.8		..				4.8	8.7	10.6	11.8	12.1	12.0
Median	3.2	.					G	9.0	10.9	11.9	12.0	12.0
Count	5	3	2	2	1	1	15	29	30	29	28	29

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

Characteristic . fo Es
Unit . Mc
Month October 1960

TABLE 37—*contd.*
Ionospheric Data
75°E Mean Time

Latitude . 10 2°N
Longitude : 77.5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.0	12.2	10.8	10.6	7.4								1
12.6	11.8	11.4	11.0	8.6								2
12.0	11.2	11.0	10.5	7.5								3
13.0	13.0	10.4	9.2	7.8					8.8	5.8	4.6	4
12.0	11.8	9.8	9.0	7.0					2.6	4.8	.	5
11.8	8.0	9.0	9.0	8.5								6
11.2	9.2	11.0	7.6	9.1	5.8		4.6	3.4	6.6	2.4		7
12.0	12.0	11.2	9.6	7.0	.						.	8
12.0	11.6	11.0	10.6	7.6			4.4					9
11.8	11.8	10.0	9.2	6.4	4.2						4.0	10
11.2	8.2	7.0	7.8									11
11.4	12.0	11.0	10.0	8.0							7.0	12
10.6	11.4	10.4	10.0	7.0								13
11.0	10.8	10.0	9.6	8.8					3.8	6.0	3.2	14
11.8	10.0	10.0	10.0	8.0					.	..	..	15
11.4	11.0	C	C	8.3					..	..		16
C	13.0	11.6	9.0	7.8					..	..		17
12.4	12.0	9.8	7.6	8.6	6.5				3.8	u4.6s	.	18
12.1	11.5	11.1	8.9	7.6								19
10.8	G	8.6	9.7	.								20
12.0	11.0	9.2	8.6	7.0					4.2	8.2	7.0	21
12.2	12.0	11.0	9.0	7.8						..	..	22
12.6	12.0	11.0	10.2	C								23
12.0	10.2	C	7.6	8.0	4.0				4.2	4.0	2.0	24
12.0	9.2	G	C	8.0	C						5.0	25
9.8	6.8	10.2	10.4	7.0							.	26
C	C	C	C	C							.	27
9.4	10.4	11.4	u11.4s	8.6							..	28
12.0	9.2	10.8	8.3	8.2								29
13.4	11.0	11.4	u11.4s	8.0						u9.4s	2.0	30
12.2	10.6	10.8	u9.0s	u7.6s		4.2						31
11.7	10.9	10.4	9.2	7.8					4.4	6.2	4.1	Mean
12.0	11.1	10.8	9.4	7.8					3.8	5.9	4.0	Median
29	30	28	28	27	4	1		2	7	8	9	Count

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

Characteristic : fb Es
Unit : Mc.
Month : October 1960

TABLE 38
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								2.9	3.4	3.7	3.8	4.1
2								2.8	3.4	3.7	3.9	4.1
3							G	2.9	3.3	3.7	4.0	4.0
4							2.2	2.9	3.4	3.7	4.0	4.1
5		2.3						2.9	3.4	3.8	3.9	4.1
6		..						2.8	3.3	3.7	4.1	4.1
7		2.3	..	..	..	..	G	G	3.4	3.8	C	4.0
8	2.4	2.3	..	..	..	..	G	G	.	3.8	3.9	4.2
9								G	3.4	3.8	4.0	4.1
10								G	3.4	3.8	4.1	4.2
11								G	3.7	4.0	4.1	
12								..	G	4.0	4.1	4.3
13								G	3.4	3.9	4.2	4.3
14								3.1	3.6	3.8	4.0	4.3
15								G	3.4	3.9	4.2	4.3
16									2.8	3.5	3.9	4.0
17							G	2.9	3.5	3.8	4.0	4.2
18								2.9	3.4	4.0	4.0	4.0
19								2.8	3.3	3.8	4.0	4.1
20								G	3.3	3.6	4.0	4.1
21									3.0	3.2	3.6	3.8
22									2.8	3.2	3.6	3.9
23	C	C	C	C	C	C			2.8	3.3	3.6	3.9
24									2.8	3.2	3.6	3.8
25									2.9	3.2	3.6	3.9
26	1.8	..				1.9		3.2	2.6	3.5	3.6	3.9
27			C				C	G	C	C	C	C
28	C	C	C	C	C	C	C	2.7	3.2	3.6	3.6	3.8
29			1.8					G	3.2	3.5	3.7	3.8
30							2.1	2.7	3.1	3.6	3.8	4.0
31					1.6			G	3.1	3.6	3.8	3.8
Mean	.	..	..	..	..	..		2.8	3.3	3.7	3.9	4.1
Median	.	..	..	..	..	..	2.1	2.8	3.4	3.7	4.0	4.1
Count	2	2	1	1	1	..	6	30	29	30	29	29

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : fb Es
Unit . Mc.
Month . October 1960

TABLE 38
Ionospheric Data
75°E Mean Time

Latitude : 10.2°N
Longitude . 77.5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.1	3.8	3.7	3.4	3.0								1
4.0	3.9	3.7	3.5	3.0	2.3							2
4.0	3.9	3.7	3.4	3.0	..							3
4.1	4.1	3.9	3.6	3.0	2.5					2.6	..	4
4.0	4.0	3.7	3.6	3.1	..	--	--	--	2.0	1.5	1.5	5
4.1	G	3.8	3.4	3.0	2.4							6
4.0	7.4	3.8	4.6	4.8	2.6	--	--	1.6	2.2	1.7	2.1	7
4.0	4.0	3.8	3.5	3.0					2.4	..	..	8
4.0	4.0	3.8	3.6	3.0					2.4	..	..	9
4.2	4.2	3.8	3.5	3.0						1.9	--	10
4.5	4.2	3.8	3.6	3.2						..	..	11
4.3	4.2	4.0	3.6	3.0						..	2.0	12
4.4	4.2	4.0	3.6	3.1						..	..	13
4.3	4.2	3.9	3.8	3.0	2.3					1.6	2.0	14
4.3	4.0	3.8	3.6	3.1	--						--	15
4.3	4.0	3.9	G	3.0	..				G		..	16
4.1	4.0	3.8	3.5	3.0	2.4						--	17
4.1	4.0	3.8	3.6	3.0	3.5						--	18
4.2	4.0	3.7	3.4	3.0	..					1.9	--	19
4.1	4.0	3.6	3.5	3.0	..		C			..	--	20
4.0	3.8	3.6	3.3	3.0	..						3.0	21
4.0	4.0	3.7	3.3	3.0	..						..	22
3.8	3.8	3.6	4.2	4.6	3.0						..	23
4.0	3.8	3.5	3.2	2.9	2.6	--	--	--	2.4	--	2.0	24
4.0	3.8	3.6	3.4	2.8	..						1.9	25
3.6	3.7	3.5	3.3	2.8	2.0						..	26
C	C	C	3.2	C	G	C	C	C	C	C	C	27
3.8	3.7	3.4	3.2	2.8	2.1						..	28
3.8	3.8	3.6	3.2								..	29
3.9	3.8	3.6	3.3	2.8							2.7	30
3.8	3.7	3.6	3.2	2.8								31
4.1	4.1	3.7	3.5	3.1	2.5	.	.	..	1.9	2.2		Mean
4.0	4.0	3.7	3.5	3.0	2.4	.	..	.	1.8	2.0		Median
30	30	30	30	29	11	..	1	4	6	8		Count

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

Characteristic : fb Es
 Unit : Mc
 Month : October 1960.

TABLE 38—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								3.1	3.5	3.8	3.9	4.0
2								3.1	3.5	3.7	4.0	4.1
3							G	3.1	3.5	3.8	4.1	4.0
4							2.5	3.1	3.5	4.0	4.0	4.1
5	1.8				..	..	2.6	3.2	3.6	3.7	4.1	4.1
6	..						G	3.0	3.5	3.8	4.1	
7	..					..		3.0	3.5	3.8	C	4.0
8	2.2	2.1				G	G	G	G	3.8	4.0	4.2
9	..						G	G	3.5	3.7	4.0	4.1
10	..		..	2.2	..				3.6	3.9	4.1	4.2
11		..						G	4.0	4.0		
12									3.6	4.1	4.3	4.2
13		2.6						3.2	3.7	4.0	4.4	4.3
14								3.2	3.7	4.0	4.1	4.1
15	..						..	3.2	3.7	4.0	4.2	4.3
16	..							3.2	3.6	4.0	4.1	4.2
17							G	3.2	3.6	3.9	4.2	4.1
18								3.1	3.6	4.0	4.0	4.2
19								3.1	3.6	4.0	4.1	4.1
20								3.1	3.5	3.8	4.0	4.1
21							2.6	3.0	3.4	3.8	4.0	4.0
22							..	3.2	3.4	3.8	4.0	4.0
23							G	3.0	3.4	3.7	4.0	4.0
24				..	..	..	G	3.0	3.4	3.6	4.0	4.0
25							G	3.0	3.4	3.8	3.9	3.9
26	2.0	..		3.2			2.7	3.0	3.5	3.4	3.8	3.8
27		..						C	C	C	C	C
28		..					..	3.0	3.3	C	3.8	3.8
29	..	1.8					G	3.0	3.4	3.7	3.8	3.8
30		..					2.4	G	3.4	3.6	3.8	3.9
31	..							3.0	3.4	3.6	3.8	3.9
Mean	..						2.6	3.1	3.5	3.8	4.0	4.1
Median						..	G	3.1	3.5	3.8	4.0	4.1
Count	3	3		2		1	11	27	30	29	28	28

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic · fb Es
Unit Mc
Month October 1960.

TABLE 38—*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
4 1	3 8	3 6	3 2	.								1
4 0	3 8	3 5	3 2	2 7								2
4 1	3 9	3 6	3 3	2 8								3
4 0	3 9	3 7	3 3	2 9					1 9	1 7	2 2	4
4 1	4 0	3 6	3 2	.					1.5	2 4	..	5
4 0	4 0	3 7	3.2	2 6					..	..	.	6
4 6	4 4	4 6	4 8	3.0				1 6	..	2 8	2 3	7
4.0	4 0	3 7	3.3	2 9				..	.	.	..	8
4 1	4 0	3 7	3 4	.				2.2	.	.	.	9
	4 0	3 8	3 2	..	2 4	..	..	..	.	..	2.3	10
4 3	4.1	3 6	4 2	..							.	11
4 2	4 1	3 8	3 4	3 0							2.6	12
4 3	4 1	3 8	3 4	2 9								13
4 2	4 0	3 7	3 3	2 8					2 0	1 6	1 8	14
4 1	4 0	3.7	3 4	3 0								15
4 2	4 0	C	C	2 6								16
C	3 9	3.8	3 3	2 8								17
4 0	4.1	3 6	3 3	3 2	2 3							18
4 0	3 7	3.6	3 2	2 7								19
4 0	G	3.7	3.4	.								20
4 0	3 7	3 6	3 1	.						1 9		21
4.0	3 8	3 6	3 1	2.6						.		22
3 8	3 8	3.9	6 0	C								23
3 8	3.6	C	3 1	2.8	2 0				2.2	2.0	1 6	24
4 0	3 6	G	C	2 6	C						1.5	25
3 8	3 6	3.4	3 1	2 5								26
C	C	C	C	C								27
3 8	3 5	3.4	3 1	2.5								28
3 9	3 8	3 6	.	.								29
3 8	3 6	3 4	3.3	2.8						2.3	1.7	30
3 8	3.6	3 4	3 0	2.7						..		31
4.0	3 9	3 7	3 4	2 8	..		..	..	.	2 1	2 0	Mean
4 0	3 9	3 6	3.3	2.8	.	.	..			2.0	2.0	Median
28	30	28	27	21	3	.	..	2	4	7	8	Count

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

Characteristic : fmin
 Unit : Mc.
 Month : October 1960.

TABLE 39
 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	1.4	1.6	1.6	1.4	1.6	2.3	1.8	2.2	2.4	2.4	2.9
2	1.5	1.4	1.7	1.3	1.3	1.5	2.1	1.9	2.2	2.5	2.7	2.7
3	1.6	1.5	1.3	1.3	1.4	1.4	1.8	1.7	2.0	2.4	2.5	2.7
4	1.8	1.6	1.8	1.4	1.5	1.5	2.0	1.9	2.0	2.4	2.7	3.0
5	1.3	1.7	1.7	1.5	1.8	1.5	2.0	1.4	1.8	2.4	2.5	2.7
6	1.4	1.3	1.4	1.6	E	1.5	2.1	1.6	2.2	2.4	2.6	2.6
7	1.3	1.4	1.6	1.4	1.6	1.6	2.1	2.0	2.3	2.6	C	2.9
8	1.2	1.3	1.8	1.9	1.6	E	1.9	2.2	3.4	2.6	2.9	3.4
9	1.6	1.4	1.3	1.8	1.8	1.4	2.4	1.9	2.4	2.7	2.9	2.9
10	1.9	1.7	1.6	1.8	2.2	1.5	2.2	1.9	2.5	2.4	2.8	3.1
11	2.1	1.6	1.8	1.6	1.9	1.7	2.3	2.7	2.2	2.9	3.0	5.7
12	2.1	2.7	1.7	2.0	1.8	2.2	2.6	3.2	2.6	3.0	3.0	3.2
13	2.4	2.0	2.3	2.4	2.0	2.1	2.6	2.5	2.3	3.2	3.2	3.5
14	1.6	1.5	1.6	2.1	1.8	1.6	2.6	2.1	2.3	2.6	2.8	3.0
15	2.2	2.2	1.6	1.6	1.6	1.7	2.2	2.1	2.5	2.8	3.4	3.3
16	1.7	1.7	1.5	1.5	1.6	1.6	2.3	2.0	2.3	2.8	2.9	3.2
17	1.6	1.6	1.8	1.9	1.9	2.5	1.8	1.7	2.2	2.3	2.8	2.7
18	1.6	1.5	1.4	1.4	2.0	2.1	2.4	2.2	2.2	2.5	3.0	3.2
19	2.1	1.6	1.4	1.7	1.3	2.1	2.3	2.1	2.3	2.9	3.0	3.1
20	1.6	1.4	1.3	1.3	1.4	1.4	2.0	2.0	2.4	2.8	2.6	3.1
21	1.4	1.2	1.3	1.3	1.3	1.5	2.2	2.3	2.3	2.6	2.8	2.8
22	2.0	1.8	1.5	1.7	1.6	1.4	2.1	1.6	2.2	2.4	2.8	2.8
23	C	C	C	C	C	C	2.0	1.5	2.3	2.6	2.6	2.8
24	1.7	1.3	1.1	1.3	1.5	1.6	2.0	2.0	2.1	2.4	2.6	2.6
25	1.6	1.6	1.5	1.3	1.4	1.2	2.0	1.7	2.0	2.4	2.6	2.6
26	1.1	1.7	1.5	1.5	1.2	1.9	1.5	1.6	1.7	2.0	2.2	2.6
27	1.5	1.7	C	E	1.3	1.3	C	2.1	C	C	C	C
28	C	C	C	C	C	C	C	1.7	1.9	2.2	2.4	2.6
29	E	1.1	E	1.1	1.3	1.4	2.1	1.8	2.0	2.3	2.5	2.6
30	1.1	1.2	1.1	1.2	1.3	1.2	1.5	1.4	1.9	2.2	2.3	3.0
31	1.6	1.1	1.2	1.0	1.6	1.5	2.0	1.8	2.0	2.4	2.4	2.3
Mean	1.7	1.6	1.5	1.6	1.6	1.6	2.1	1.9	2.2	2.5	2.7	3.0
Median	1.6	1.5	1.5	1.5	1.6	1.5	2.1	1.9	2.2	2.4	2.7	2.9
Count	29	29	28	29	29	29	29	31	30	30	29	30

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

Characteristic : fmin
 Unit : Mc.
 Month : October 1960.

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
2.7	3.0	2.7	2.7	2.3	2.4	1.3	1.7	1.4	1.4	1.8	1.5	1
3.0	2.7	2.6	2.4	2.0	1.9	1.4	1.9	1.7	1.7	1.4	1.6	2
2.7	2.8	2.7	2.7	2.3	2.6	1.8	1.4	1.5	1.4	1.8	2.1	3
2.7	2.8	2.6	2.5	2.2	2.1	1.4	1.3	1.3	1.5	1.1	1.4	4
2.8	2.8	2.7	2.8	2.3	2.4	1.4	1.3	1.6	1.1	1.5	1.2	5
3.0	3.2	2.9	2.6	2.0	1.8	1.6	1.4	1.3	1.4	1.5	1.3	6
3.1	3.0	2.6	2.4	2.0	2.0	2.0	1.6	1.3	1.5	1.5	1.7	7
3.0	3.0	2.8	2.8	2.3	2.4	1.5	1.6	1.5	1.7	1.7	1.7	8
3.0	3.0	3.0	2.6	2.5	2.6	1.7	1.5	1.7	2.3	2.1	2.0	9
3.0	3.4	2.8	2.8	2.2	2.6	1.8	2.0	1.6	1.5	1.5	2.0	10
4.5	3.2	3.0	2.4	2.4	2.7	1.8	1.5	1.3	2.0	1.7	2.0	11
3.2	3.2	3.0	2.7	2.5	2.5	1.6	1.8	1.4	1.7	1.3	1.4	12
3.2	3.1	2.9	2.7	2.2	2.4	1.6	1.7	1.7	1.5	1.7	1.5	13
3.1	3.0	3.0	3.8	2.4	1.9	1.3	1.6	1.5	1.6	1.6	1.0	14
3.3	3.0	2.8	2.5	2.2	2.4	1.5	1.7	1.3	1.4	1.7	1.7	15
3.2	3.1	2.7	C	2.1	2.4	1.7	1.7	1.7	C	1.5	1.2	16
2.9	2.7	2.4	2.3	1.8	1.8	1.5	1.8	1.6	2.0	1.9	1.6	17
3.0	2.8	2.8	2.5	2.3	2.5	1.8	1.5	1.4	1.6	1.7	2.3	18
3.0	3.0	2.9	2.5	2.1	2.3	1.7	1.6	1.3	1.5	1.3	1.7	19
3.2	3.0	2.9	2.7	2.5	2.4	1.5	C	1.2	1.6	1.4	1.3	20
2.8	2.6	2.5	2.6	2.4	2.4	1.4	1.5	1.4	1.6	1.6	2.2	21
2.8	2.8	2.6	2.5	2.2	2.3	1.5	1.6	1.7	1.7	1.4	1.3	22
2.6	2.6	2.5	2.6	1.9	1.7	1.3	1.5	1.2	1.8	1.5	1.5	23
2.6	2.6	2.4	2.2	1.7	1.5	1.4	1.4	1.4	1.0	1.7	1.1	24
2.6	2.6	2.4	2.2	2.0	2.0	1.4	1.7	1.5	1.5	1.6	1.3	25
2.6	2.5	2.6	2.2	2.0	1.5	1.3	1.6	1.5	1.8	1.4	1.3	26
C	C	C	2.2	C	C	C	C	C	C	C	C	27
2.7	2.5	2.4	2.2	2.2	1.7	1.3	S	1.5	1.5	1.3	1.1	28
2.5	2.4	2.4	2.4	4.0	2.6	1.3	1.3	1.6	1.9	1.2	1.4	29
2.5	2.6	2.4	2.4	2.2	2.4	1.8	1.7	1.8	1.5	1.9	1.2	30
2.5	2.3	2.2	2.2	2.0	2.2	1.6	1.4	S	1.4	1.2	E	31
2.9	2.8	2.7	2.5	2.2	2.2	1.5	1.6	1.5	1.6	1.6	1.5	Mean
3.0	2.8	2.7	2.5	2.2	2.4	1.5	1.6	1.5	1.6	1.5	1.4	Median
30	30	30	30	30	30	30	28	29	29	30	30	Count

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : fmin
Unit : Mc
Month : October 1960

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	1.6	1.7	1.6	1.4	1.6	2.0	2.4	1.9	2.2	2.2	2.7	2.6
2	1.5	1.4	1.6	1.5	1.3	1.6	2.4	2.2	2.6	2.6	2.8	2.8
3	1.7	1.3	1.3	1.4	1.4	1.5	2.0	1.7	2.3	2.5	2.9	2.9
4	1.6	1.4	1.6	1.5	1.4	1.6	1.9	2.0	2.5	2.7	2.7	3.0
5	1.2	1.5	1.5	1.9	1.7	1.6	1.5	1.7	2.1	2.3	2.7	3.0
6	1.3	1.2	1.3	1.9	E	1.4	1.8	1.9	2.3	2.6	2.6	4.2
7	1.7	1.5	1.8	1.3	1.7	1.8	2.4	1.9	2.4	2.8	C	3.0
8	1.0	1.4	1.9	1.6	1.6	1.4	2.0	3.0	2.9	2.8	3.0	3.1
9	1.7	1.4	1.4	1.8	1.5	1.6	2.1	2.2	2.6	2.8	3.0	3.0
10	1.9	1.6	1.6	1.9	1.7	1.8	2.6	2.4	2.3	2.5	2.9	3.0
11	1.7	1.8	1.8	1.5	1.4	1.7	2.6	2.4	2.6	2.8	6.4	4.9
12	2.2	2.2	2.2	1.9	2.0	2.2	2.5	2.8	2.6	2.7	3.1	3.2
13	2.2	2.0	2.3	2.4	2.1	2.2	2.9	2.9	2.9	3.2	3.8	3.5
14	1.4	1.7	2.0	1.8	1.6	2.0	2.6	2.0	2.6	2.7	3.0	3.2
15	2.1	2.0	1.6	1.7	1.7	1.8	2.6	2.2	2.7	3.1	3.0	3.6
16	1.6	1.5	1.6	1.6	1.4	1.7	2.7	2.2	2.4	2.7	3.0	3.2
17	1.7	1.8	1.7	2.3	2.3	1.9	1.9	2.0	2.2	2.4	2.7	2.8
18	1.6	1.4	1.4	1.7	1.7	2.3	2.5	2.3	2.4	2.8	3.0	2.8
19	1.8	1.6	1.4	1.6	1.7	1.7	2.7	2.1	2.5	2.8	3.0	3.1
20	1.6	1.4	1.4	1.7	1.3	1.6	2.6	2.3	2.8	2.8	3.0	3.1
21	1.2	1.5	1.3	1.5	1.4	1.6	2.3	2.1	2.5	2.6	2.8	2.8
22	1.7	1.7	1.7	1.6	1.4	1.6	2.4	1.8	2.2	2.5	2.8	3.0
23	C	C	C	C	C	C	2.0	2.2	2.4	2.6	2.7	2.6
24	1.8	1.3	1.2	1.3	1.7	1.7	1.9	2.0	2.2	2.4	2.7	2.5
25	1.5	1.8	1.4	1.4	1.3	1.5	1.9	1.8	2.2	2.5	2.6	2.6
26	1.1	2.0	1.3	1.1	1.7	1.7	1.3	1.7	1.8	2.1	2.4	2.8
27	1.8	C	C	E	1.3	1.7	2.4	C	C	C	C	C
28	C	C	C	C	C	C	C	1.6	1.9	C	2.4	2.8
29	1.1	E	1.1	1.1	1.2	1.4	1.8	1.8	2.3	2.4	2.5	2.6
30	1.1	1.3	1.1	1.2	1.2	1.3	1.7	1.7	2.1	2.3	2.4	2.8
31	1.2	C	1.5	1.6	1.5	1.6	1.8	1.9	2.2	2.2	2.4	2.6
Mean	1.6	1.5	1.6	1.6	1.6	1.7	2.2	2.1	2.4	2.6	2.9	3.0
Median	1.6	1.5	1.6	1.6	1.5	1.7	2.4	2.0	2.4	2.6	2.8	3.0
Count	29	27	28	29	29	29	30	30	30	29	29	30

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : fmin
Unit : Mc
Month : October 1960.

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
2.8	2.6	2.8	2.6	2.8	C	1.3	1.3	1.4	1.6	1.5	1.6	1
2.8	2.7	2.6	2.3	2.0	1.7	2.1	1.8	1.6	1.4	1.5	1.6	2
3.0	2.9	2.8	2.5	2.0	2.0	1.2	1.3	1.5	1.4	2.0	1.6	3
2.9	2.8	2.6	2.4	2.2	2.1	1.3	1.6	1.3	1.5	1.2	1.5	4
2.8	2.8	2.7	2.5	2.8	2.1	1.4	1.4	1.8	1.4	1.3	1.2	5
3.2	3.0	2.8	2.2	1.7	1.9	1.4	1.2	1.4	1.4	1.6	1.3	6
3.0	2.8	2.7	2.4	2.1	2.2	1.4	2.1	1.7	1.3	1.4	1.6	7
3.2	2.9	2.8	2.4	2.4	2.1	1.4	1.3	1.6	1.7	1.5	1.8	8
2.9	3.0	2.8	2.6	3.0	2.3	2.1	1.6	1.5	2.3	1.8	1.7	9
4.4	3.0	2.8	2.5	2.8	1.8	1.5	1.6	1.8	1.6	2.3	1.9	10
3.6	2.9	3.0	2.2	3.0	2.5	1.6	1.5	1.4	2.1	2.1	2.1	11
3.4	3.2	3.0	2.6	2.4	2.3	1.4	1.7	1.5	1.6	1.7	2.0	12
3.4	3.0	2.7	2.4	2.3	2.1	1.7	1.7	2.0	1.3	1.7	1.4	13
3.7	3.1	2.8	2.6	2.2	1.8	1.4	1.7	1.6	1.1	1.3	1.5	14
3.0	3.1	3.0	2.5	3.0	1.9	1.5	1.7	1.4	1.5	2.1	1.4	15
3.3	2.9	C	C	2.0	1.7	1.6	1.5	1.7	C	1.6	1.5	16
C	2.6	2.8	2.2	2.3	1.8	1.3	1.7	1.7	1.7	1.8	1.4	17
3.1	2.9	2.6	2.8	2.4	1.8	1.6	1.4	1.6	1.5	1.8	2.2	18
3.2	2.9	2.7	2.4	2.2	1.9	1.7	1.4	1.3	1.4	1.7	1.6	19
3.1	2.8	2.9	2.5	2.7	1.8	1.7	1.2	1.5	1.6	1.3	1.4	20
3.0	2.6	2.6	2.3	2.8	1.8	1.4	1.6	1.7	1.4	1.6	2.0	21
3.0	2.7	2.6	2.4	2.2	1.9	1.5	1.5	1.4	1.4	1.3	C	22
2.6	2.1	2.4	2.0	C	1.9	1.6	1.5	1.3	1.8	1.5	1.7	23
2.7	2.4	C	1.9	1.7	1.5	1.4	1.3	1.5	1.0	1.3	1.2	24
2.6	2.6	2.6	C	1.9	C	1.5	1.7	1.6	1.5	1.5	1.2	25
2.6	2.5	2.4	2.2	1.8	1.5	1.3	1.4	1.4	1.5	1.5	1.5	26
C	C	C	C	C	C	C	C	C	C	C	C	27
2.8	2.2	2.3	2.2	2.0	1.5	1.1s	1.5	1.7	1.5	1.1	1.0	28
2.6	2.4	2.4	3.1	3.2	2.1	1.8	1.4	1.8	1.7	1.4	1.5	29
2.4	2.6	2.4	2.5	2.4	1.9	1.8	1.8	1.4	1.6	1.6	1.0	30
2.6	2.4	2.2	2.1	1.8	1.8	1.3s	1.3s	1.4	1.2	1.3	1.1	31
3.0	2.8	2.7	2.4	2.3	1.9	1.5	1.5	1.6	1.5	1.6	1.5	Mean
3.0	2.8	2.7	2.4	2.3	1.9	1.4	1.5	1.5	1.5	1.5	1.5	Median
29	30	28	28	29	28	30	30	30	29	30	29	Count

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

Characteristic : h'F2
 Unit : Km.
 Month : October 1960

TABLE 40
 Ionospheric Data
 75.0°E Mean Time

Latitude 10.2° N
 Longitude 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								.	L	L	C	L
8								L	L	270	L	290
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
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
26								L	L	L	L	L
27								L	C	C	C	C
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L _H
31								L	L	L	L	L
Mean											..	
Median							
Count								..		1	..	1

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

Characteristic . h'F2
Unit : Km.
Month : October 1960

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	L	L	L	L								3
L	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	A	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L	L	L						11
L	L	L	L	L	L	L						12
L	L	L	L	L	L	L						13
L	L	L	L	L	L	L						14
L	L	L	L	L	L	L						15
L	L	L	C	L								16
L	L	L	L	L	L							17
L	L	L	L	L	L	L						18
L	L	L	L	L	L	L						19
L	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	L						27
L	L	L	L	L	L	L						28
L	L	L	L	L	L	L						29
L	L _H	L _H	L	L	L							30
L	L	L	L	L	L							31
..	..	.	..		..							Mean
..	.	.	..	.								Median
..	..	..	..	..	..							Count

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

Characteristic : h'F2
 Unit Km.
 Month - October 1960

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	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
6								L	L	L	L	L
7								L	L	L	L	L
8							L	L	L	280	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	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 _H	L	L
Mean											..	.
Median							.	.				
Count							1	..	..	.

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

Characteristic h'F2
Unit : Km
Month : October 1960

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									1
L	L	L	L									2
L	L	L	L									3
L	L	L	L									4
L	L	L	L									5
L	L	L	L	L								6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L	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	C	C	L								16
C	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
C	C	C	C	C	C							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L _H	L	L _H	L	L	L							30
L	L	L	L	L	L							31
												Mean
												Median
												Count

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

Characteristic : h'F
Unit . Km.
Month . October 1960

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	235	230	220	u275F	F	u320F	275	240	230	220	215	220
2	235	225	230	240	280	300	365	245	220	220	210	220
3	260	240	235	230	215	215	260	240	230	220	215	200
4	260	235	235	230	235	250	270	250	230	220	220H	215
5	u300F	u275F	u310F	u270F	250F	u240F	270	250	240	230	210	220
6	265	240	225	220	E	L	270	245	220	205	200	210
7	400	320	260	320	325	250	245	255	255	230	C	220
8	260	265	230	230	220	E	255	245	225	215	210	210
9	240	230	230	235	240	230	260	240	220	215	200H	200H
10	260	230	230	225	225	250	260	240	220	220	210	200
11	240	230	235	235	235	225	250	240	230	215	200	B
12	235	220	220	235	240	260	265	245	240	220	215	200
13	245	240	240	F	240	260	270	250	235	220	220	205
14	240	225	230	230	230	240	270	240	235	210	210	225
15	240	230	225	235	240	240	275	245	235	220	200	225
16	245	260	260	245	240	245	280	245	240	230	215	205
17	240	235	240	255	245	255	275	255	240	220	210	220
18	230	245	240	240	255	250	270	255	230	235	220	220
19	250	260	250	255	280	300	280	260	240	230	220	220
20	240	240	230	235	255	260	270	250	235	220	215	210
21	240	240	230	220	240	255	265	250	240	220	220	220
22	240	260	240	240	260	230	260	245	220	220	205	220
23	C	C	C	C	C	C	260	240	240	220	200	210
24	260	260	240	235	220	240	260	245	240	220	200	200
25	u320F	320	275	260	240	245	275	240	240	230	200	205
26	320	280	260	260	260	280	280	260	A	235	225	220
27	240	255	C	245	240	230	C	255	C	C	C	C
28	C	C	C	C	C	C	C	255	235	225	220	215
29	260	295	270	240	225	220	265	250	240	220	220	220H
30	255	240	230	220	240	260	275	250	230	225	220	220
31	245	240	240	260	260	240	270	250	230H	220H	225H	220
Mean	260	250	240	245	245	250	270	250	235	220	210	215
Median	245	240	235	240	240	250	270	245	235	220	215	220
Count	29	29	28	28	28	28	29	31	29	30	29	29

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

Characteristic $h'F$
Unit : Km.
Month : October 1960

TABLE 41
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	215	215	220	240	275	300	355	320 _F	265	245	235	1
220	220	215	220	240	260	270	260	255	240	220	245	2
215	210	210 _{tr}	220	235	260	300	300 _F	260	235	255	265	3
215	215	220	230	240	270	325	340 _F	340 _F	300 _F	280 _F	265 _F	4
220	220	215	235	250	270	315	380 _F	300 _F	250 _F	280	290 _F	5
210	225	235	235	245	270	255	265	355	420	F	375	6
220	A	230 _{tr}	A	A	265	300	305	285	255	260	250	7
210	210	210	215	235	270	305	310	250	245	250	245	8
200	195 _{tr}	210	220	240	270	300	300	275	270	260	260	9
205	220	210	225	240	270	320	400	F	310 _F	280 _F	245	10
B	215	215	220	250	260	320	380	F	F	240	240	11
205	215	220	235	240	270	355	F	F	380 _F	F	225	12
220	220	220	220	250	280	360	440	F	300	240	250	13
220	220	220	230	240	260	355	F	F	340	340	285	14
220	220	220	230	240	260	340	400	360	280	240	225	15
235	225	215 _{tr}	C	250	285	360	F	F	C	260	240	16
220 _{tr}	220	225	240	250	280	375	520 _F	F	F	300	245	17
230	225	220	230	250	290	320	320	325	295	280	270	18
230	220	225	240	240	280	340	F	F	340 _F	280	245	19
220	215	220	235	255	280	350	C	F	345 _F	270 _F	235	20
220	220	220	230	250	280	360	440 _F	440 _F	300	240	265	21
220	220	210	230	240	270	320	400 _F	360 _F	300 _F	275	240	22
220	215	220	A	A	280	325	380 _F	420 _F	340 _F	260 _F	260	23
200	200	200 _{tr}	225	245	270	325	400 _F	400 _F	400 _F	260 _F	300 _F	24
220	220	225	240	260	300	360	410	460	260	240	280	25
220	220	235	240	250	260	280	260	260	235	240	230	26
C	C	C	235	C	C	C	C	C	C	C	C	27
200 _{tr}	220	220	240	250	265	315	345	260	230	235	240	28
220	225	220	235	260 _{tr}	275	310	335	270	240	250	250	29
205 _{tr}	220	220 _{tr}	220 _{tr}	250	275	300	280	240	240	255	260	30
215 _{tr}	215	220	235 _{tr}	255	265	310	360 _F	340 _F	265 _F	240	225	31
215	215	220	230	245	275	320	360	325	290	260	255	Mean
220	220	220	230	250	270	320	360	320	280	260	250	Median
29	29	30	28	28	30	30	25	21	27	28	30	Count

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

Characteristic : h'F
Unit : Km.
Month : October 1960

TABLE 41—*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	235	220	υ225F	υ310F	F	υ310F	255	235	230	220	220	220
2	230	225	220	260	300	305	255	235	220	215	215	215
3	250	240	240	215	210	240	245	225	225	215	200	205
4	240	230	235	230	235	260	255	240	230	220	215H	205
5	υ300F	υ300F	υ300F	υ250F	245F	υ245F	260	245	235	220H	215	220H
6	245	230	225	215	E	305	255	235	225	200	200	υ220B
7	370	270	270	430	265	220	260	260	245	225	C	225
8	260	240	235	220	240	310	245	230	220	205	210	210
9	240	235	225	235	230	245	250	225	205H	200H	200H	200
10	245	230	230	225	235	280	250	230	225	210	200	210
11	235	235	240	235	220	240	240	235	220	200	B	B
12	230	220	245	240	255	265	250	240	220	220	200	205
13	240	240	245	260	260	260	255	240	225	220	215	220
14	230	230	240	240	235	235	250	240	220	210	200	230
15	230	230	235	250	260	275	260	240	235	215	210	210
16	250	260	260	240	240	290	260	240	225	225	200	220
17	240	235	240	250	250	270	270	245	225	220	220	220
18	240	240	240	240	260	260	255	240	230H	225	220	220
19	255	245	250	260	295	300	260	240	230	220	210	220
20	240	235	230	245	260	260	255	235	230	220	210	215
21	240	235	220	230	240	280	260	240	230	220	200	210
22	240	260	240	240	240	240	260	240	225	215	200	220
23	C	C	C	C	C	C	255	240	220	210	220	210
24	260	260	240	230	240	260	260	240	220	220	200	200
25	υ320F	300	260	250	240	260	260	240	230	220	205	220
26	320	255	260	280	250	320	265	250	240	200H	220	220
27	250	C	C	245	240	235	260	C	C	C	C	C
28	C	C	C	C	C	C	C	245	225	C	220	215
29	280	290	250	235	225	240	255	240	225	220	215H	210
30	245	230	220	220	260	285	260	235	230	220H	220	220H
31	240	C	260	265	250	240	260	245	225	220H	220H	220
Mean	255	245	240	250	245	265	255	240	225	215	210	215
Median	240	235	240	240	240	260	255	240	225	220	210	220
Count	29	27	28	29	28	29	30	30	30	29	28	29

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

Characteristic h'F
Unit : Km.
Month : October 1960

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
220	215	220	230	255	C	340	u360F	285F	255	235	235	1
215	210	220	225	255	280	270	260	235	225	225	255	2
220	215H	210	230	250	275	310	u280F	240	245	265	265	3
220	225	220	235	260	290	u380F	u330F	u315F	u275F	u285F	u280F	4
220	235H	220H	240	260	285	u360F	u360F	u295F	u275F	300F	270	5
220	230	240	240	260	270	255	320	410	440F	405	365	6
u240A	240	A	A	260	275	305	300	270	250	270	250	7
205	210	215	220	250	280	320	280	240	240	250	240	8
200	200	220	235	260	280	320	280	270	270	255	270	9
u220B	210	215	230	255	285	365	430	340F	340F	250	250	10
200	215	220	255	260	285	u380F	F	F	F	250	240	11
215	220	220	230	260	290	120	F	F	F	220	250	12
220	200	210	220	260	300	F	420	F	280	240	250	13
220	215	220	240	260	300	405	500	410	F	315	260	14
220	220	220	220	265	300	385	F	325	260	225	240	15
220	220	C	C	265	310	F	F	F	C	250	240	16
C	225	225	240	265	305	460	F	F	340	260	235	17
230	220	225	240	270	300	320	325	310	280	275	260	18
220	225	230	240	260	300	F	F	F	u295F	260	240	19
215	210	225	235	270	300	F	F	u340F	F	245	240	20
220	220	220	240	260	300	400F	500F	400F	235	245	240	21
220	220	220	240	260	280	380F	400F	u280F	280	240	C	22
220	210	240	A	C	300	F	u400F	u410F	u320F	280	260	23
210	200H	C	245	260	280	v80	u430F	400F	300	u260F	300	24
220	220	235	C	270	C	420	460F	360	240	260	300	25
230	220	230	240	260	280	280	260	240	235	235	240	26
C	C	C	C	C	C	C	C	C	C	C	C	27
200H	220H	220H	245	265	280	340	310	235	230	250	240	28
220	220	220H	245	265	280	340	300	240	250	250	245	29
215H	205H	225	240	260	290	300	250	240	250	260	245	30
215	220H	220H	240	255	285	340	u355F	u300F	260	230	235	31
220	215	220	235	260	290	350	355	310	275	260	255	Mean
220	220	220	240	260	285	310	330	300	260	250	250	Median
29	30	27	26	29	28	25	23	24	25	30	29	Count

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

Characteristic : h'E
Unit : Km.
Month : October 1960

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							..	A	A	A	A	A
2							..	A	A	A	A	A
3							145	A	A	A	A	A
4								A	A	A	A	A
5								A	A	A	A	A
6								110	A	A	A	A
7								120	110	A	C	A
8							135	120	B	120	A	A
9								120	115	A	A	AA
10								120	A	A	A	
11								140	A	A	A	B
12								..	120	A	A	A
13								120	110	A	A	A
14								105H	A	A	A	A
15								115	A	A	A	A
16								A	A	A	A	A
17							130	120	120	115	A	A
18								120	120	120	120	A
19								A	A	A	A	A
20								125	A	A	A	A
21								120	A	A	120	A
22								110	115	110	A	A
23								120	120	120	120	A
24								120	A	A	120	120
25								120	120	120	A	A
26							A	A	A	A	A	A
27							C	120	C	C	C	C
28							C	120	120	115	A	A
29								120	115	A	110	A
30								115	A	A	A	A
31								120	120	115	A	A
Mean							..	120	115	115	120	..
Median							..	120	120	120	120	..
Count							3	22	12	8	5	1

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

Characteristic . h'E
Unit . Km.
Month : October 1960

TABLE 42—*Contd*
Ionospheric Data
75°0'E Mean Time

Latitude 10°2' N.
Longitude 77°5' E.

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

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

Characteristic : h'E
Unit : Km.
Month : October 1960

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

Latitude 10°2' N
Longitude 77°5' E.

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

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

Characteristic : h'E
Unit : Km.
Month : October 1960

TABLE 42—*contd.*
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77.5° E.

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	..								1
A	A	A	A	A								2
A	A	A	A	A								3
A	A	A	A	A								4
A	A	A	A	..								5
A	120	115	110	115								6
A	115	A	A	A								7
A	A	115	115	120								8
A	A	120	120	..								9
B	A	A	115	..								10
A	A	A	A	..								11
A	A	A	A	A								12
A	A	A	A	A								13
A	A	A	A	A								14
A	A	A	A	..								15
A	A	C	C	A								16
C	120	120	120	120	v190F							17
120	120	120	125 _F	A								18
A	A	A	A	A								19
A	120	A	A	..								20
A	120	120	120	.								21
A	110	120	120	120								22
A	120	120	A	C								23
120	115	C	120	A								24
A	120	120	C	A								25
120	115	A	120	120								26
C	C	C	C	C								27
115	120	120	120	140								28
120	110	115	B	B								29
A	120	120	F	..								30
120	120	115	120	..								31
120	120	120	120	125								Mean
120	120	120	120	120								Median
6	15	13	12	6								Count

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

Characteristic : h'Es
 Unit : Km.
 Month : October 1960

TABLE 43
 Ionospheric Data
 75° E Mean Time

Latitude 10.2° N.
 Longitude 77 5° E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								115	100	100	100	100
2								501	100	100	100	100
3							G	110	100	100	100	100
4							130	115	110	105	100	100
5		110						110	105	100	100	100
6								105	105	100	100	100
7								G	105	105	C	100
8	100	110					G	G	110	100	100	100
9							115	G	105	100	100	100
10								G	100	100	100	100
11								G	100	100	100	B
12								..	G	100	100	100
13								G	100	100	100	100
14								105	100	100	100	100
15								G	100	100	100	100
16			130					100	100	100	100	100
17							G	115	120	110	100	100
18								115	110	105	100	100
19								105	100	100	100	100
20								G	100	100	100	100
21								100	100	100	100	100
22	140							100	100	100	100	100
23	C	C	C	C	C	C		100	100	100	100	100
24								100	100	100	100	100
25	130							110	100	100	100	100
26	110				100		100	105	100	100	100	100
27			C				C	G	C	C	C	C
28	C	G	C	C	C	C	C	105	105	100	100	100
29		115	100					G	100	100	100	100
30							135	100	100	100	100	100
31				110				G	120	105	100	100
Mean	..	.	..	..	..	..	..	105	105	100	100	100
Median		..	.	..			.	105	100	100	100	100
Count	4	3	2	1	1	..	4	19	29	30	29	260

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

Characteristic : h'Es
 Unit . Km.
 Month . October 1960

TABLE 43—Contd.
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

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

Characteristic . h'Es
Unit : Km.
Month : October 1960

TABLE 43—*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								105	100	100	100	100
2								100	100	100	100	100
3							G	100	100	100	100	100
4							125	110	105	100	100	100
5	120		120				120	110	100	100	100	100
6							G	105	105	100	100	B
7								105	105	100	C	100
8	100	110				G	G	170	G	100	100	100
9							G	G	100	100	100	100
10				105				100	100	100	100	100
11								G	100	100	B	100
12								B	100	100	100	100
13		110						100	100	100	100	100
14								100	100	100	100	100
15								100	100	100	100	100
16								100	100	100	100	100
17							G	115	115	105	100	100
18								115	105	100	100	100
19								100	100	100	100	100
20								100	100	100	100	100
21								160	105	100	100	100
22								100	100	100	100	100
23							G	110	105	100	100	100
24							G	100	100	100	100	100
25	125		155				G	100	100	100	100	100
26	110			100	100			105	100	100	100	100
27								C	C	C	C	C
28								105	100	C	100	100
29		110					G	100	100	100	100	100
30	130						120	G	100	100	100	100
31							120	120	110	100	100	100
Mean	. 115	.	.	.	.	..	125	105	100	100	100	100
Median	. 120	.	.	.	.	.	120	100	100	100	100	100
Count	. 5	3	2	2	1	.	6	26	29	29	28	29

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic h'Es
Unit : Km.
Month : October 1960

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

Latitude 10.2° N.
Longitude 77 5° E.

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

Sweep 1.0 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 : October 1960

75°E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	3.00	3.05	3.20	F	F	F	u2.85 _F	2.90 _F	2.50	2.45	2.35	2.30
2	3.10	3.20	3.25	3.20	2.80	2.70	2.85	2.80	2.60	2.45	2.45	2.30
3	3.00	3.00	3.00	3.15	3.30	3.55	3.05	3.05	2.70	2.40	2.45	2.40
4	3.15	3.25	3.30	3.15	3.20	3.25	3.10	3.10	2.70	2.30	2.35	2.35
5	F	F	F	F	2.95 _F	F	F	F	2.35 _H	2.40	2.35	2.30
6	u2.90 _s	3.00	3.20	3.30	E	R	3.00	3.00	2.50	2.20	2.55	2.30
7	2.15	2.35	2.60	2.05	2.45	2.90	2.90	2.90	2.40 _H	2.35	C	2.40
8	3.05	3.00	3.15	3.15	3.55	E	3.05	3.20	3.00	2.90	2.70	2.40
9	3.05	3.10	3.15	3.20	3.10	3.25	3.20	3.20	2.90	2.45	2.25 _H	2.20
10	2.95	3.10	3.05	3.25	3.45	3.20	3.05	3.05	2.75	2.40	2.30	2.25
11	3.00	F	u3.15 _F	3.10	F	u3.25 _F	3.20	3.15	2.90	2.50	2.10 _H	2.25
12	3.00	3.15	3.10	3.15	3.20	3.10	3.05	3.10	2.95	2.65	2.30	2.20
13	F	3.10	F	F	F	F	u3.15 _R	3.00	2.80	2.50	2.20	2.20
14	F	u3.05 _F	3.10	3.10 _F	F	3.30	2.95	2.95	2.65	2.30	2.35	2.25
15	F	u3.20 _F	3.20	3.30	F	F	F	3.00	2.70	2.35	2.15	2.20
16	3.05	3.00	2.95	3.00	3.20	3.20	2.90	2.75	2.55	2.40	2.30	2.30
17	F	F	3.10	F	3.25	3.25	3.00	2.85	2.45	2.35	2.40	2.40
18	3.15	F	3.10	u3.20 _F	u3.30 _F	TH	u3.30 _F	3.00	2.75	2.55	2.25	2.30
19	3.00	3.00	3.00	3.10	2.90	2.85	2.90	2.70	2.50	2.40	2.40	2.25
20	2.90	3.00	3.10	3.10	3.00	3.00	3.20	3.00	2.80	2.50	2.30	2.35
21	F	3.10	3.20	3.25	3.30	3.20	3.10	3.05	2.70	2.35	2.40	2.30
22	3.00	3.05	3.15	F	3.10	3.30	3.20	3.10	2.75	2.40	2.30	2.30
23	C	C	C	C	C	C	3.15	3.10	2.70	2.25 _H	2.40	2.40
24	F	F	F	3.20	3.30	F	3.30	3.20	3.00	2.55	2.30	2.40
25	F	F	F	F	3.25	F	F	2.90	2.65	2.40	2.40	2.40
26	2.80	2.90	2.90	2.95	2.90	3.00	2.70 _H	2.65 _H	2.80	2.60	2.55	2.40
27	3.10	3.10	C	3.20	3.30	3.40	C	3.25	C	C	C	C
28	C	C	C	C	C	C	C	3.00	2.80	2.45	2.60	u2.45 _s
29	3.00	u2.85 _s	2.95	u3.05 _s	3.30	3.50	3.15	3.25	u2.90 _s	2.60	2.40	2.40
30	3.05	3.30	3.40	3.45	3.20	3.10	3.05	2.90 _s	2.90	2.70	2.50	2.40
31	3.15	3.30	3.25	3.05	u3.10 _s	3.30	3.10	3.05	2.80	2.50	2.30	2.40
Mean	3.00	3.05	3.10	3.10	3.15	3.20	3.05	3.00	2.70	2.45	2.35	2.30
Median	3.00	3.05	3.10	3.15	3.20	3.20	3.05	3.00	2.70	2.40	2.35	2.30
Count	21	23	24	23	23	20	26	30	30	30	29	30

Sweep 1.0 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 : October 1960

75 E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.40	2.35	2.25	2.20	2.20	2.20	2.10	2.10	u2 10F	u2 35F	F	u3.00F	1
2.30	2.30	2.30	2.30	2.40	2.35	2.20	2.50	2.55	2.70	2.90	3.00	2
2.40	2.40	2.40	2.40	2.40	2.40	2.20	2.25	2.40	2.80	2.90	3.00	3
2.35	2.35	2.40	2.40	2.45	2.40	2.15	F	F	u2.60F	F	F	4
2.35	2.30	2.40	2.40	2.45	2.40	2.20	2.15	F	F	2.50	F	5
2.35	2.35	2.40	2.30	2.15	2.05H	2.40	2.50	2.10	2.00	2.00	2.15	6
2.30	2.40	2.35	2.30	2.30	2.40	2.40	2.40	2.55	2.70	2.80	2.95	7
2.20	2.25	2.35	2.45	2.40	2.40	2.35	2.30	2.60	2.80	2.90	3.10	8
2.20	2.40	2.30	2.20	2.15	u2.25s	2.30	2.35	2.55	2.70	2.85	2.95	9
2.25	2.25	2.20	2.20	2.20	2.30	2.25	2.20	u2 15F	F	F	2.90F	10
2.30	2.40	2.40	2.40	2.45	2.40	2.25	F	F	F	F	F	11
2.20	2.20	2.20	2.20	2.25	2.25	2.15	F	F	F	F	F	12
2.25	2.25	2.20	2.10	2.10	2.20	2.10	F	F	F	F	F	13
2.25	2.30	2.30	2.20	2.10	u2.10s	2.00	u2.00F	F	F	F	F	14
2.30	2.30	2.30	2.25	2.10	u1.95s	2.10	2.10	2.15	u2 50s	u2.65F	3.05	15
2.15	2.20	2.30	C	u2 20s	2.10	2.05	F	F	C	2.75	F	16
2.40	2.40	2.25	2.25	2.30	2.30	u2.20s	F	F	F	F	F	17
2.35	2.30	2.30	2.35	2.40	2.45	2.40	2.40	2.50	2.60	2.70	2.85	18
2.30	2.30	2.35	2.30	u2 35s	2.30	2.10	u2.40F	F	F	2.65	2.80	19
2.35	2.50	2.50	2.50	2.50	2.35	u2.10R	C	F	F	F	F	20
2.35	2.40	2.50	2.50	2.45	2.40	2.15	u2 10s	F	F	F	F	21
2.35	2.40	2.40	2.35	2.40	2.45	2.30	F	F	F	F	F	22
2.45	2.45	2.40	2.50	2.50	2.50	2.40	F	F	F	F	F	23
2.50	2.50	2.50	2.60	2.55	2.60	2.45	2.25	F	F	F	F	24
2.30	2.45	2.50	2.50	2.45	2.30	2.10	u2 05s	F	F	F	F	25
2.40	2.40	2.50	2.40	2.25	2.40	2.50	2.65	2.75	2.90	2.95	3.05	26
C	C	C	2.35	C	C	C	C	C	C	C	C	27
2.50	2.50	2.50	2.45	2.35	2.40	2.40	2.25	2.60	2.90	3.05	3.05	28
2.45	2.50	2.50	2.55	2.50	2.40	u2 30s	2.30	2.55	2.75	2.85	3.00	29
2.40	2.40	2.50	2.55	2.55	u2.40s	2.35	2.50	2.80	3.00	3.10	u3 15s	30
2.45	2.50	2.45	2.50	2.40	2.35	S	2.25	F	2.50	u2 90s	3.10	31
2.35	2.35	2.35	2.35	2.35	2.30	2.25	2.30	2.45	2.65	2.80	2.95	Mean
2.35	2.40	2.40	2.40	2.40	2.35	2.20	2.25	2.55	2.70	2.85	3.00	Median
30	30	30	30	30	30	29	21	14	15	16	16	Count

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

Characteristic : (M3000) F₂

TABLE 44—cont'd

Latitude 10° 2' N.

Unit : —

Ionospheric Data-

Longitude 77° 5' E.

Month . October 1960

75 E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	3 10	3 20	F	F	F	F	u2 95F	2 70	2 40	2 45	2 20	2 40
2	3 10	3 25	3 30	2 90	2 65	2 80	2 90	2 70	2 50	2 50	2 35	2 30
3	3 10	3 00	3 00	3 30	3 50	2 70H	3 10	2 90	2 55	2 35	2 50	2 35
4	3 15	3 25	3 25	3 25	3 20	3 30	3 15	2 95	2 45	2 40	2 30	2 35
5	F	F	F	2 85	u3 20F	u3 00F	F	F	2 40	2 30	2 25	2 40
6	3 00	3 20	3 30	2 70H	E	2 50	3 05	2 70	2 30	2 40	2 50	2 30
7	2 25	2 55	2 40	2 05	2 45	3 00H	2 90	2 60	2 10H	2 40	C	2 25
8	2 95	3 00	3 10	3 05	3 45	2 50	3 20	3 10	3 00	2 85	2 55	2 35
9	3 10	3 15	3 15	3 25	3 15	3 10	3 20	3 10	2 75	2 20H	2 35	2 15
10	3 05	3 05	3 20	3 30	3 45	2 60	3 20	2 90	2 60	2 30	2 30	2 25
11	F	F	3 00	F	F	3 05F	3 25	3 10	2 70	2 30	u2 20R	2 30
12	3 15	F	3 05	3 20	3 10	2 85	3 15	3 05	2 80	2 50	2 10	2 15
13	F	F	3 15F	F	F	F	3 15	2 90	2 70	2 35	2 20	2 20
14	F	3 15	3 10	3 20	u3 20F	3 30	3 00	2 80	2 50	2 20	2 30	2 20
15	F	F	F	F	F	F	3 05F	2 80	2 55	2 15	2 20	2 25
16	3 00	3 00	2 90	3 10	3 20	3 00	2 75	2 65	2 50	2 35	2 30	2 25
17	F	3 05	u3 30F	3 20	3 30	2 90	3 00	2 65	2 35	2 40	2 40	2 30
18	3 10	3 10	3 10	F	F	F	3 15	2 85	2 60	2 45	2 10	2 35
19	u3 00s	3 00	3 05	2 95	2 90	2 95	2 80	2 50	2 50	2 50	2 30	2 30
20	2 90	3 10	3 15	3 00	2 95	3 20	3 15	2 90	2 70	2 40	2 35	2 35
21	3 00	3 15	3 25	3 30	3 10	2 85	3 10	2 95	2 55	2 30	2 40	2 30
22	3 05	3 10	3 10	3 20	3 25	3 15	3 20	2 95	2 55	2 40	2 40	2 30
23	C	C	C	C	C	C	3 20	3 00	2 40	2 40	2 40	2 50
24	F	F	F	3 30	3 40	u3 15F	3 30	3 10	2 70	2 30	2 35	2 40
25	F	F	3 20	F	F	F	F	2 75	2 50	2 40	2 40	2 30
26	2 80	2 95	2 90	2 95	3 10	2 80	2 60H	2 80	2 70	2 65	2 45	2 40
27	3 10	C	C	3 25	3 30	3 40	3 20	C	C	C	C	C
28	C	C	C	C	C	C	C	2 90	2 65	C	2 45	2 50
29	2 85	2 85	u3 05s	3 20	u3 40s	3 25	3 25	3 10	2 80	2 40	2 40	2 50
30	3 20	3 30	3 40	3 35	3 15	2 80	3 00	2 90	2 85	2 60	2 40	2 40
31	3 20	C	u3 20s	2 90	3 05	3 05	3 15	2 90	2 65	2 35	2 30	2 50
Mean	3 00	3 05	3 10	3 10	3 15	2 95	3 10	2 85	2 60	2 40	2 35	2 35
Median	3 05	3 10	3 10	3 20	3 20	3 00	3 15	2 90	2 55	2 40	2 35	2 30
Count	21	20	24	23	22	24	28	29	30	29	29	30

Sweep 1.0 Mc to 25.0 Mc. in 27 Seconds.

Characteristic : (M3000) F₂
 Unit : ---
 Month : October 1960

TABLE 44—contd.
 Ionospheric Data
 75°E Mean Time

Latitude 10°2' N.
 Longitude 77°5' E.

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.40	2.35	2.20	2.20	2.20	C	2.10	2.10	2.20	F	F	3.00	1
2.30	2.30	2.30	2.30	2.35	2.20	2.40	2.55	2.70	2.80	3.05	3.00	2
2.40	2.10	2.15	2.40	2.35	2.30	2.20	2.35	2.60	2.90	3.00	3.10	3
2.30	2.35	2.40	2.45	2.45	2.25	2.05	2.25	F	u2.80F	F	F	4
2.40	2.35	2.45	2.40	2.40	2.35	2.15	2.25	F	F	2.60	F	5
2.30	2.40	2.35	2.25	2.10	2.00H	2.40	2.30	2.00	2.00	2.05	2.20	6
2.30	2.40	2.30	2.30	u2.40s	2.50	2.40	2.50	2.60	2.75	2.85	3.00	7
2.30	2.35	2.40	2.40	2.40	2.40	2.30	2.45	2.75	2.85	3.00	3.10	8
2.30	2.30	2.25	2.15	2.15	u2.25s	2.30	2.50	2.60	2.75	2.95	2.90	9
2.30	2.20	2.20	2.20	2.25	2.30	2.20	2.10	F	F	2.80	2.90	10
2.30	2.40	2.40	2.45	2.40	2.35	2.15	F	u2.40F	F	F	F	11
2.20	2.30	2.30	2.25	2.30	2.25	2.05F	F	F	F	F	F	12
2.25	2.25	2.20	2.10	2.10	2.20	F	F	F	F	F	u3.05F	13
2.30	2.30	2.25	2.15	2.10	2.10	u2.00s	F	F	F	F	F	14
2.30	2.30	2.30	2.15	u2.00s	2.15	2.10	u2.20F	F	F	2.80	3.10	15
2.20	2.25	C	C	2.20	2.10	F	F	F	C	u2.80s	F	16
C	2.25	2.25	2.25	2.30	2.20	1.95	F	F	F	F	3.00	17
2.30	2.30	2.35	2.25	2.45	2.40	2.40	2.45	2.55	2.65	2.70	2.90	18
2.30	2.30	2.30	2.30	2.30	2.20	2.30	F	F	2.60	2.75	2.85	19
2.45	2.50	2.50	2.50	2.40	u2.20R	F	F	F	F	F	u2.80F	20
2.40	2.40	2.45	2.50	2.40	2.30	2.10	F	F	F	F	F	21
2.40	2.40	2.40	2.40	2.45	2.40	2.25	F	F	F	F	C	22
2.40	2.45	2.50	2.50	C	2.40	2.20	F	F	F	u2.90F	F	23
2.50	2.50	C	2.55	2.70	2.60	u2.40s	u2.25F	F	F	F	F	24
2.40	2.50	2.55	C	u2.45s	C	2.10	F	F	F	F	u2.90F	25
2.40	2.50	2.45	2.40	2.25	2.45	2.50	2.70	2.85	3.00	2.95	3.10	26
C	C	C	C	C	C	C	C	C	C	C	C	27
2.50	2.50	2.45	2.40	u2.40s	2.35	2.25	2.40	2.80	3.00	3.05	3.00	28
2.50	2.50	2.55	2.50	2.50	2.25	2.25	2.40	2.65	2.80	2.90	3.05	29
2.40	2.45	2.55	2.55	2.50	2.40	2.35	2.60	2.90	3.00	j3.10s	3.15	30
2.45	2.45	2.50	2.45	2.35	2.35	2.25	2.25	u2.50F	2.60	2.90	3.20	31
2.35	2.35	2.35	2.35	2.35	2.30	2.25	2.35	2.60	2.75	2.85	2.95	Mean
2.30	2.40	2.40	2.35	2.35	2.30	2.25	2.40	2.60	2.80	2.90	3.00	Median
29	30	28	28	29	28	27	18	14	14	18	20	Count

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

Characteristic : fo F₂
Unit . Mc
Month : November 1960

TABLE 45
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77° 5° E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	10.2	9.6	9.0	7.9	7.0	5.8	7.5	10.3	10.8	10.7	10.3	10.6
2	9.8	9.1	6.7	4.5	3.7	2.7	6.3	9.7	11.4	11.4	11.2	11.8
3	9.8 _s	9.0	8.0	6.1	4.1	3.2	6.5	10.1	C	C	C	11.8
4	11.2	10.6	7.6	5.2	3.2	2.6	6.3	10.1	11.9	11.4	11.3	11.1
5	F	C	C	C	C	C	C	C	C	C	11.0	11.4
6	11.1	10.7	8.5	7.4	5.1	3.1	6.4	10.0	11.4	11.4	11.3	11.0
7	11.8	11.7	9.7	7.2	6.0	4.4	6.8	10.2	12.7	13.4	12.8	11.7
8	10.5	10.1	8.2	6.7	4.8	3.2	6.4	9.7	12.0	12.4	11.7	11.4
9	10.4 _F	9.7	8.0	5.7	3.5	2.6	6.2	9.8	11.7	12.7	13.1	13.0
10	9.7 _F	9.4 _F	8.6 _F	6.7 _F	4.4	3.1	6.3	9.5	11.0	11.6	11.7	11.8
11	11.0 _C	11.8 _C	10.8 _C	7.2 _C	6.0	4.6	6.6	10.1 _C	11.8	12.2	12.9	12.6
12	12.4	11.5	8.6	7.0 _s	4.5	3.3	6.6	10.5	11.6	12.4	12.6	C
13	10.3	8.9	7.9	6.6	6.8	E	5.5	9.2	9.5	11.0	11.6	C
14	3.4	3.5	3.0	2.0 _R	2.6	E	6.7	10.8	12.4	13.0	14.0	14.2
15	8.9	7.9	7.8	6.2	5.4	5.2	6.8	10.0	13.0	13.0	11.8	11.7
16	11.2 _F	12.1	11.1	10.8	9.8	6.9	7.6	10.0	11.4	13.8	11.4	10.3
17	7.8	6.5	5.5	4.5	4.2	E	6.1	10.1	11.6	11.0	11.0	11.3
18	F	F	8.2	7.1	7.6	6.4	7.1	9.8	11.5	11.1	10.5	10.3
19	F	9.0	8.4	F	5.4	E	5.5	8.7	9.4	9.5	9.4	10.1
20	8.6	7.8	6.5	5.3	4.2	2.9	5.7	9.3	10.7	10.6	9.6	9.5
21	8.4	7.8	6.4	5.3	4.8	3.5	5.9	9.4	11.3	10.4	9.3	9.3
22	10.9	9.8	10.2 _R	9.9	6.9	4.0 _R	6.3	9.3	11.1	11.6	12.0	12.7
23	10.0	9.9	7.5	4.0	R	E	5.3	8.4	9.6	10.1	10.5	10.8
24	8.7	8.6	8.1	6.2	3.7	E	5.4	8.5	10.6	10.8	9.7	9.4
25	7.5	7.4	6.8	6.1	3.7	2.6 _R	5.8	9.1	10.5	11.4	13.2	14.2
26	9.1	8.5	7.0	4.5	4.0	3.7 _R	6.7	8.5	9.7	C	C	C
27	7.7	8.2	6.5	6.4	5.8	4.6 _R	6.1	9.4	11.3	11.0	10.4	10.4
28	8.6	8.4	8.3	7.1	6.1	5.0	5.9	8.4	9.4	9.2	9.4	10.0
29	7.0	7.6	8.0	6.7	5.3	6.9	5.4	9.3	10.0	9.2	9.0	9.0
30	8.8	8.8	8.2	7.4	5.9	3.5	5.7	9.3	11.1	11.2	11.6	11.2
Mean	9.4	9.1	7.9	6.3	5.2	3.9	6.3	9.6	11.1	11.4	11.2	11.2
Median	9.8	9.0	8.0	6.5	5.0	3.2	6.3	9.7	11.4	11.4	11.3	11.2
Count	27	28	29	28	28	29	29	29	28	27	28	27

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

Characteristic of F₂
Unit : Mc
Month : November 1960

TABLE 45
Ionospheric Data
75°E Mean Time

Latitude 10.2° N.
Longitude 77.5° E.

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.4	12.1	12.2	12.1	11.8	10.8	10.0	9.2	9.2	9.4	9.8	F	1
12.3	12.9	13.7	13.9	14.2	13.9	12.9	F	11.9 _F	12.8	11.5	9.9	2
11.6	12.4	13.1	13.2	13.4	13.0 _R	13.2 _R	13.0	13.7	14.3	13.0	11.9	3
11.3	11.3	11.7	11.9	12.6	13.4	12.2 _R	12.3 _R	12.9	13.0 _R	F	13.9	4
11.6	12.1	12.4	12.9	12.7	12.4	11.5	10.5 _F	F	13.1	F	11.7	5
10.8	10.9	11.4	11.7	11.6	10.9	9.7	9.0	9.8	10.3	10.4	10.6	6
11.6	11.8	12.3	12.0	11.5	10.8	10.5	9.9	10.6	11.4	11.5	11.0	7
11.0	11.1	11.5	11.8	11.5	11.3	10.0	10.6 _F	F	F	F	10.4 _F	8
13.2	13.3	13.2	13.7	13.6	12.8	11.3	10.6 _F	F	F	F	9.8 _F	9
12.2	12.7	12.8	12.6	12.4	11.8	10.9	F	11.3 _F	11.3	10.7	11.0	10
11.9	12.2	12.2	12.4	11.8 _s	11.6	11.8 _s	11.8 _s	C	12.1	11.8 _s	12.8	11
12.4	12.4	12.4	12.2	11.6	11.6	10.9	9.3	F	F	9.2	11.2	12
C	C	C	11.2	10.8 _H	12.4	13.5	R	5.6	5.0	4.5	3.1	13
14.0	C	14.2	14.2	13.8	12.6	10.6	9.4	9.0	9.0 _F	9.0 _F	10.0	14
12.0	11.9	12.0	12.0	12.0	11.7	11.1	9.9	8.6	F	F	F	15
11.9	11.8	12.6	13.6	13.8	R	R	11.6	11.6	11.7	10.1	9.0	16
11.0	11.0	11.2	11.4	11.7	11.8	11.1	10.1	10.0	9.0 _F	F	F	17
10.5	10.9	11.0	11.0	11.2	10.3	8.9	10.7 _F	8.0	F	F	8.1	18
10.6	11.3	11.9	12.6	12.9	R	11.6	10.7	R	9.8	9.8	9.5	19
9.5	10.0	10.8	11.6	C	11.6	11.5	11.2	10.9	11.6	9.9	8.5	20
9.6	10.8	12.1	12.3	12.4	11.8 _s	10.9	11.8	12.6	11.9	10.6	10.1	21
12.5	13.3	13.7	13.8	13.0 _R	13.1	R	11.4 _R	11.0	12.5	10.0	10.3	22
10.6	11.3	11.8	11.8	11.7 _s	11.4	11.0 _R	10.8	10.9	10.8	8.9	8.9	23
9.8	10.0	10.7	11.6	11.9	11.8	11.5	10.7	10.5	10.3	9.0	7.8	24
14.5	13.9	13.8	C	C	R	10.7	10.0	9.4	10.0	10.0	10.5	25
11.3	C	C	13.8	C	11.8 _R	8.8	7.9	7.5	10.9 _F	7.3	7.6	26
11.2	11.6	12.4	12.8	13.4	12.8	11.7	11.8	11.6	10.8	9.7	9.1	27
11.3	11.4	12.4	12.0	11.8	11.0	8.9	7.8	7.4	10.4 _F	7.2	6.9	28
9.6	10.0	10.9	11.0	11.3	11.0	10.6	10.3	10.6	9.7	9.6	9.0	29
11.6	12.1	12.1	12.4	11.8	11.3	10.0	9.6	8.8	8.0	7.6	10.7 _F	30
29	27	28	29	27	27	28	27	24	25	23	27	Count
11.4	11.8	12.2	12.2	11.9	11.8	11.0	10.1	10.6	10.8	9.8	9.9	Median
11.5	11.7	12.2	12.4	12.3	11.9	11.0	10.2	10.1	10.5	9.6	9.6	Mean

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

Characteristic : fo F₂
Unit : Mc
Month : November 1960

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	9.8	9.1	8.5	7.5	C	5.7	8.8	10.7	10.6	10.7	10.4	10.9
2	9.8 _F	7.8	5.6	4.2	3.0	3.9	8.2	10.7	11.4	11.3	11.6	11.9
3	9.4	8.7	7.1	4.9	3.7	4.2	8.5	11.5	13.3	C	11.6	11.7
4	11.0	9.5	6.2	3.9	2.8	4.0	8.5	11.1	11.7	11.1	11.3	11.2
5	F	C	C	C	C	C	C	C	C	C	11.3	11.5
6	10.8	9.6	8.0	6.3	4.0	4.0	8.4	11.0	11.4	11.3	11.1	10.7
7	12.0	11.2	8.0	6.8	5.2	4.6	8.8	11.6	13.2	13.2	12.3	11.7
8	10.4	9.8	7.3	5.6	4.1	4.0	8.4	11.0	12.7	11.9	11.5	11.5
9	9.7 _F	9.3	6.7	4.4	3.1	3.9	8.3	11.0	12.3	12.8	13.0	12.8
10	F	9.2 _F	F	5.7	3.8	4.0	8.2	10.6	11.5	11.5	11.7	11.9
11	11.3 _α	11.7 _α	9.3 _α	6.4 _α	5.3	4.6	8.5	11.3	12.0	12.9	13.0	11.9
12	12.1	10.0	7.7	5.6	3.7	4.1	8.7	11.4	12.0	12.6	12.4	12.4
13	9.2	8.9	6.8	6.4	F	3.1	7.4	9.4	9.6	12.4	C	C
14	3.7	3.2	2.7	2.2	2.7	3.9	9.2	11.4	12.9	13.4	14.0	14.0
15	8.1	8.3	6.9	5.7	5.5	4.8	8.4	B	13.4	12.6	11.6	11.8
16	F	11.8	11.1	10.4	8.0	6.1	9.1	11.0	13.4	12.5	10.4	11.6
17	7.1	5.9	4.9	4.0	R	E	8.4	11.0	11.7	11.0	11.2	11.1
18	9.1 _F	8.7	7.6	7.3 _F	7.3	5.2	8.9	10.8	11.8	11.1	10.3	10.5
19	8.9	9.0	7.4	6.2	4.0	3.4	7.7	9.3	9.5	9.5	9.7	10.4
20	8.0	7.3	6.0	4.7	3.7	3.5	7.5	9.8	10.8	10.0	9.5	9.5
21	8.3	7.1 _s	6.0 _s	5.2	4.3	3.6	8.3	10.8	11.0	9.8	9.3	9.3
22	10.3	9.8	10.7	8.6	R	4.0	8.0	10.4	11.8	11.8	12.7	12.3
23	9.6	9.0	5.7	3.5	E	E	7.0	9.0	10.0	10.0	10.7	10.8
24	8.6	8.5	7.2 _s	5.0	R	3.0 _R	7.2 _s	9.7	11.3	9.9	9.3	9.6
25	7.4 _s	7.2 _s	6.5	5.3	3.0 _R	3.6 _H	7.8	9.9	11.0	12.2	13.9	14.3
26	9.0	8.0	5.7 _R	4.2	3.9	5.0	8.0	9.3 _α	C	9.5	10.2	10.9
27	7.8	7.4	6.6	6.1	5.4	3.9	8.1	10.4	11.4	10.8	10.5	10.6
28	8.4	8.6	7.5	6.7	5.7	4.1	7.4	8.6	9.3	9.2	9.8	10.6
29	7.2	8.0	7.5	6.2	4.3	E	7.7	9.8	9.4	9.0	8.8	9.2
30	8.7	8.7	8.0	6.9	4.9	3.3 _R	7.7	10.5	11.3	11.3	11.5	11.4
Count	27	29	28	29	24	29	29	28	28	28	29	29
Median	9.1	8.7	7.2	5.7	4.0	4.0	8.3	10.7	11.4	11.3	11.3	11.4
Mean	9.1	8.7	7.1	5.7	4.4	4.1	8.2	10.5	11.5	11.3	11.2	11.3

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

Characteristic : fo F₂
 Unit : Mc
 Month : November 1960

TABLE 45—*Concl'd*
 Ionospheric Data
 75°E Mean Time

Latitude 10.2° N.
 Longitude 77.5° E.

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.6	12.3	12.2	12.1	11.3	10.3	9.5	9.0	9.5	9.6	9.8	F	1
12.4	13.2	13.6	14.0	14.2	13.3 _H	11.9	F	12.6 _H	12.4	10.7	9.9	2
12.0	13.0	13.2	13.6	13.3 _R	12.8 _R	13.0	13.3 _R	14.4	13.6	12.7	11.4	3
11.4	11.6	11.9	12.2	12.9	13.0	12.1 _R	12.5	12.9 _R	12.9 _F	13.7	13.8	4
11.8	12.1	12.6	13.0	12.7	12.0	10.8	F	12.5	F	F	11.6	5
10.9	11.1	11.6	11.6	11.6	10.4	8.8	9.4	10.1	10.3	10.6	11.1	6
11.7	12.0	12.3	11.7	11.4	10.8	10.0	10.3	11.0	11.6	11.3	10.9	7
11.1	11.3	11.8	11.5	11.4	11.0	9.0	F	F	F	F	10.4 _F	8
13.2	13.2	13.4	13.7	13.2	12.0	10.9 _F	F	F	F	F	F	9
12.4	12.8	12.7	12.0	12.2	11.7	10.9	10.8 _F	11.3	10.8	10.6	11.0	10
12.1	12.3	12.5	11.9 _S	11.5	11.6 _S	11.8 _S	12.1	12.5	11.8 _S	12.2 _S	12.6	11
12.5	12.4	12.4	12.0	11.8	11.5	10.2	10.4 _F	F	F	10.6	11.2	12
C	C	11.4	11.4	11.4 _H	12.8	13.2	5.9	4.8	5.3	3.6	3.2	13
C	14.2	14.0	14.1	13.6	11.4	9.8	9.5	9.0 _F	9.0	9.1 _F	9.7	14
11.9	11.8	11.9	12.0	11.7	11.7	10.8	9.1	F	F	F	F	15
11.8	11.8	13.2	13.7	R	12.8 _R	12.7	11.6	11.7	11.0	9.7	8.6	16
11.0	11.0	11.4	11.7	11.7	11.7	10.5	10.4	9.4	F	F	8.7	17
10.7	10.9	11.0	11.1	10.6	9.8	8.5	7.8	8.1	F	F	8.7 _F	18
11.0	11.6	12.0	12.8	12.0 _R	11.6	10.8 _R	10.6	10.3	10.3	9.7	8.8	19
9.6	10.5	11.2	11.7	11.8	11.7	11.2	11.0	11.4	11.1	9.2	8.5	20
10.1	11.4	12.6	12.3	12.0 _S	11.7 _S	10.9	12.4	11.8 _R	11.3	10.4	10.2	21
13.0	13.4	13.8	14.2	13.2 _R	R	11.8 _R	11.6	10.8	10.0	10.3 _F	10.1	22
10.9	11.5	11.9	11.7	11.5	11.0 _R	10.9	10.8	11.2	9.9	8.6	8.8	23
9.8	10.3	10.9	11.8	11.6 _R	11.8	11.3	10.4	10.6	10.0	8.4	7.8	24
14.3	C	C	C	12.9 _R	11.8	10.8	9.2	9.8	9.8	10.3	9.8	25
11.9	13.0	13.6	13.8	12.8	10.7 _H	8.0	7.7	7.3	6.8	7.7	7.6	26
11.4	12.2	12.5	13.0	13.0	12.0	11.8	11.7	11.0	10.0	9.3	8.8	27
11.4	12.0	12.4	12.0	11.2	10.4	8.4	7.6 _F	7.6	7.2	7.0	6.9	28
9.8	10.4	11.0	10.8	11.3	10.5	10.5	10.4	9.8	9.5	9.2	9.0	29
12.0	12.2	12.0	12.4	11.8	10.8	9.8	10.4 _R	8.7	7.9	7.8	10.7 _F	30
28	28	29	29	29	29	30	26	26	23	24	27	Count
11.6	12.0	12.3	12.0	11.8	11.7	10.8	10.4	10.7	10.0	9.8	9.7	Median
11.6	12.0	12.3	12.4	12.1	11.5	10.7	10.1	10.4	10.1	9.7	9.5	Mean

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

Characteristic : fo F₁
 Unit : Mc
 Month : November 1960

TABLE 46
 Ionospheric Data
 75°E Mean Time

Latitude 10.2° N.
 Longitude 77 5° E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	C	C	C	L
4								L	L	L	L	L
5							L	C	C	C	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	B	B	B
12								L	L	L	L	C
13								L	L	L	L	C
14								L	L	B	L	L
15								L	B	L	L	L
16									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	L
25							L	L	L	L	L	L
26								L	L	C	C	C
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Count											..	
Median						
Mean						

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

Characteristic : fo F₁
 Unit : Mc
 Month : November 1960

TABLE 46
 Ionospheric Data
 75°E Mean Time

Latitude 10°2' N.
 Longitude 77°5' E.

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
L	L	L	L	L	L							4
L	L	L	L	L	L							5
L	L	L	L									6
L	L	L	L									7
L	L	L	L									8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L		L								11
L	L	L	L									12
C	C	C	L									13
L	C	L	L	L								14
L	L	L	L									15
L	L	L	L	L	L							16
L	L	L	L	L	L	L						17
L	L	L	L	L	L	L						18
L	L	L	L	L	L	L	L					19
L	L	L	L	L	O							20
L	L	L	L	L	L	L						21
L	L	L	L	L	L	L	L					22
L	L	L	L	L	L	L	L					23
L	L	L	L	L	L	L	L					24
L	L	L	L	L	C							25
L	C	C	L	C								26
L	L	L	L	L	L							27
L	L	L	L	L	L	L						28
L	L	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 : fo F₁
 Unit : Mc
 Month : November 1960

TABLE 46—Contd.
 Ionospheric Data
 75°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	C	L	L
4								L	L	L	L	L
5								C	C	C	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
10							L	L	L	L	L	L
11								L	B	B	B	B
12								L	L	L	L	L
13							L	L	L	L	C	C
14								L	B	L	L	L
15								B	L	L	L	L
16								L	L	L	L	L
17							L	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	L
23							L	L	L	L	4.8	L
24							L	L	L	L	L	L
25							L	L	L	L	L	L
26								L	C	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	5.1	L
Mean												
Median												
Count											2	

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : fo F₁
 Unit : Mc
 Month : November 1960

TABLE 46—*Contd*
 Ionospheric Data
 75°E Mean Time

Latitude : 10.2° N
 Longitude : 77.5° E.

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

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

Characteristic : fo E
 Unit : Mc
 Month : November 1960

TABLE 47
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N.
 Longitude : 77.5° E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2							1 9	A	A	A	A	A
3								2 7	C	C	C	A
4									A	A	A	A
5							C	C	C	C	C	C
6								2 6	A	A	A	A
7								2 7	A	A	A	A
8								A	A	A	A	A
9								3.0	A	A	A	A
10								A	A	A	A	A
11								2.7 _H	A	B	B	B
12									A	R	A	C
13									3.2	B	A	C
14									B	B	B	B
15								2 6	B	B	B	B
16									B	B	B	B
17									C	B	A	A
18									C	C	A	A
19								C	C	C	A	A
20									A	A	A	A
21									C	C	C	B
22									C	C	A	B
23									C	C	A	B
24								C	C	C	A	B
25									C	C	A	A
26								A	C	C	C	C
27									C	C	A	B
28									C	C	A	A
29								C	C	C	A	A
30									C	C	A	A
Mean							..	2.7	..	..	..	..
Median							.	2 7	..	.	..	..
Count							1	6	1	.	..	.

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic fo E
 Unit : Mc
 Month : November 1960

TABLE 47
 Ionospheric Data
 75°E Mean Time

Latitude : 10°3' 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	3.6	A	A								2
A	A	A	A	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	B	B								10
B	B	B	A	R								11
A	A	A	B									12
C	C	C	B									13
B	B	B	B	A								14
B	B	B	B									15
B	A	B	B									16
A	A	A	B									17
A	A	A	C	C								18
A	C	C	A	A								19
B	A	B	B	B								20
C	C	3.6	B									21
B	B	C	C									22
B	B	A	C									23
A	B	A	C									24
A	B	B	C	C								25
A	C	C	B	C								26
B	B	A	C									27
A	B	A	C									28
B	B	A	C	C								29
A	A	A	C	A								30
..	.	.	.	.								Mean
	..	..	..									Median
..	..	2	.	.								Count

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

Characteristic . to E
 Unit . Mc
 Month : November 1960

TABLE 47—Contd.
 Ionospheric Data
 75°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2.4	A	A	A	A	A
2							2.4	A	A	A	A	A
3								3.0	A	C	A	A
4								A	A	A	A	A
5							C	C	C	C	C	A
6								A	A	A	B	A
7							2.3	3.0	A	A	A	A
8								A	A	A	A	A
9								A	A	A	A	A
10								A	A	A	A	A
11								A	B	B	B	B
12								A	A	3.5A	A	A
13								3.0	3.2	3.6	C	C
14								A	B	B	B	B
15								B	B	B	B	B
16									B	B	B	B
17									B	A	B	A
18								C	C	A	A	A
19								C	C	C	A	A
20								C	A	A	A	A
21								C	C	C	B	B
22								C	C	A	B	B
23								C	C	A	B	B
24								C	C	A	A	A
25								C	C	A	B	A
26							A	C	C	A	A	A
27								C	C	A	B	A
28								C	C	A	A	A
29								C	C	A	A	B
30								C	C	A	A	A
Mean								
Median								
Count							3	3	1	2	.	..

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

Characteristic fo E
Unit Mc
Month : November 1960

TABLE 47—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	A	A	A	A								1
	A	3.5	A	A								2
	A	A	A	A								3
	A	A	A	A	A							4
	A	A	A	A	A							5
A	A	A	A	A	A							6
A	A	A	A	A	A							7
A	8.9	u3 5R	A	A								8
A	A	B	B	B								9
B	B	B	A									10
A	A	B	B									11
C	C	B	B									12
C	B	B	B									13
B	B	B	B									14
B	B	B	B									15
B	B	B	B									16
A	A	B	C	C								17
A	A	A	A	A	C							18
A	A	A	A	B	A							19
A	A	B	B	A								20
C	3.7	B	B									21
B	C	C										22
B	A	C										23
B	A	C	C									24
B	C	C	C									25
A	A	B	B									26
B	B	A	C									27
A	A	C	C									28
B	B	C	C	C								29
A	A	C	C	A								30
<hr/>												
.		..		..								Mean
<hr/>												
..	..	.	.	.								Median
<hr/>												
1	2	2	..	..								Count

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

Characteristic $f_o E_s$
Unit : Mc
Month : November 1960

TABLE 48
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								8.4	10.6	11.0	12.2	12.4
2							G	7.4	10.6	10.8	12.0	12.0
3	4.6	3.2						G	C	C	C	11.6
4									8.0	10.4	11.4	11.0
5		C	C	C	C	C	C	C	C	C	C	C
6								G	8.8	11.0	11.2	11.2
7								G	8.0	9.2	12.0	12.2
8								6.4	7.4	10.7	10.4	11.0
9								7.0	7.8	8.8	10.0	10.0
10								8.7	8.2	10.0	10.0	9.6
11								G	6.8	B	B	10.0
12									8.0	8.0	9.0	C
13									G	G	10.0	C
14			2.7	2.0					G	B	B	9.2
15								G	B	B	B	B
16			2.7	2.8					G	G	G	7.
17									C	G	7.8	7.8
18									C	C	9.3	8.8
19								C	C	C	C	8.8
20									C	C	8.4	8.8
21									C	8.2	8.2	10.2
22									C	C	8.0	G.4
23									C	C	8.4	8.0
24								C	C	C	8.4	9.0
25									C	C	11.0	8.0
26								C	C	C	C	C
27									C	C	8.8	8.0
28									C	C	8.2	8.2
29								C	C	C	8.8	7.8
30									C	C	8.2	12.0
Mean		.	..	.	.		..	7.6	8.4	9.8	9.6	9.7
Median		.	..	.	.	..		6.4	8.0	9.2	9.0	9.2
Count	1	1	2	2		.	1	10	13	13	23	25

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

Characteristic $f_o E_s$
Unit . Mc
Month . November 1960

TABLE 48
Ionospheric Data
75°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.4	12.0	12.0	9.6	9.6					5.0			1
11.0	9.0	10.0	9.0	10.0					6.6	7.0	7.6	2
11.0	11.0	11.0	6.8									3
11.0	11.6	12.0	8.0	7.4								4
9.4	10.0	10.0	8.0	8.0								5
11.7	13.0	11.4	8.6	8.6						6.8	2.7	6
12.2	10.8	10.4	8.8	8.1						2.6	6.0	7
10.8	11.2	10.8	8.6	8.0								8
11.0	9.2	9.6	7.8	7.0								9
10.0	10.0	10.0	7.0	B								10
G	8.6	9.6	9.0	7.0				C				11
9.8	10.0	10.8	8.0	7.6								12
C	C	C	G									13
10.0	C	8.1	G	7.6								14
B	10.0	10.0	G					3.1	2.8			15
G	7.0	7.0	G									16
8.2	7.8	7.4	G									17
8.8	8.8	8.1	C	C								18
8.7	C	C	7.2	6.8								19
8.6	8.4	G	G	C								20
10.0	C	G	G									21
8.0	G	5.4	C						6.0			22
8.4	9.0	8.0	C									23
9.0	9.6	8.0	C									24
8.0	7.0	7.0	C	C			3.5					25
9.7	C	C	G									26
8.8	7.0	12.0	C									27
8.2	6.5	7.1	C									28
8.2	7.8	7.6	C	C			C					29
8.3	9.2	10.4	C	5.6							5.1	30
9.6	9.4	9.3	8.2	7.8	..	.	..	.			.	Mean
9.2	9.2	9.6	7.2	7.6	.	..	.	..		..	..	Median
28	25	27	21	13	1	..	..	1	4	3	4	Count

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

Characteristic of Es
Unit : Mc
Month : November 1960

TABLE 48—Contd.
Ionospheric Data
75°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1020	1130
1							G	10.4	10.8	12.2	12.0	12.0
2							G	10.0	10.0	12.0	12.0	11.0
3							G	10.8	C	12.0	12.0	11.0
4							G	7.0	10.0	11.0	11.4	11.0
5							C	C	C	C	10.7	8.7
6								8.4	10.8	11.0	10.4	11.0
7	2.6						G	G	8.2	12.2	12.0	12.0
8								7.6	9.6	10.8	10.7	11.6
9								8.2	8.2	9.6	10.6	10.4
10								8.0	9.6	10.0	10.4	10.0
11								6.8	B	B	9.4	11.0
12									7.0	10.0	8.8	8.2
13								G	6.6	G	C	C
14		2.0	3.0					6.6	B	B	6.8	10.2
15								B	B	B	B	B
16			2.1						G	8.0	7.8	7.8
17									G	7.8	8.2	7.6
18								C	C	9.0	9.4	9.1
19								C	C	C	8.8	8.8
20								C	C	8.6	8.8	8.4
21								C	C	8.2	9.4	10.2
22								C	C	6.0	8.0	8.2
23								C	C	8.6	8.0	8.0
24								C	C	9.0	9.0	9.4
25								C	C	9.6	G	8.2
26							6.8	C	C	8.0	8.4	9.0
27								C	C	8.3	8.4	8.1
28								C	C	8.2	8.2	7.8
29								C	C	8.2	8.4	8.0
30								C	C	8.6	9.4	8.8
Mean	.	.	.	.	.	.	.	8.1	9.2	9.3	9.5	9.5
Median	.	.	.	.	.	.	.	7.3	9.6	8.8	9.2	8.9
Count	1	1	2	..	.	..	4	12	13	24	28	28

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic · fo Es
 Unit · Mc
 Month November 1960

TABLE 48—Contd.
 Ionospheric Data
 75°E Mean Time

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

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

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

Characteristic . fb Es
 Unit · Mc
 Month : November 1960

TABLE 49
 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								2·7	3·2	3·5	3·8	3·9
2							G	2·7	3·2	3·6	3·8	4·0
3	1·9	1·8						G	C	C	C	4·0
4								∴	3·4	3·8	3·9	4·0
5		C	C	C	C	C	C	Cj	C	C	C	4·3
6								G	3·4	3·6	4·1	4·2
7								G	3·4	3·8	3·9	4·1
8								2·8	3·4	3·7	4·0	4·0
9								3·0	3·5	3·8	4·3	4·3
10								3·0	3·3	4·0	4·1	4·4
11								G	3·6	—	—	—
12								∴	3·5	3·8	3·8	C
13								∴	G	G	3·8	C
14			1·7	1·6				∴	G	—	—	∴
15								G	∴	—	—	∴
16			2·2	1·9				—	G	G	C	∴
17								∴	C	G	4·0	4·2
18								∴	C	C	4·1	4·4
19								∴	C	C	4·3	4·5
20								∴	3·3	4·0	4·1	4·2
21								∴	C	∴	∴	∴
22								∴	C	C	3·9	G
23								∴	C	C	4·0	4·0
24								∴	C	C	3·8	∴
25								∴	C	C	4·3	4·2
26								2·9	C	C	C	C
27								∴	C	C	3·7	3·8
28								∴	C	C	4·0	4·1
29								∴	C	C	3·8	4·1
30								∴	C	C	4·1	4·1
Mean	∴	∴	∴	∴	∴	∴	∴	2·8	3·4	3·8	4·0	4·1
Median	∴	∴	∴	∴	∴	∴	∴	2·7	3·4	3·7	4·0	4·1
Count	1	1	2	2	∴	∴	1	11	14	13	23	21

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

Characteristic : fb Es
 Unit : Mc
 Month : November 1960

TABLE 49
 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	3.7	3.4	3.2	2.8								1
4.0	3.8	3.5	3.6	3.1					2.2	2.0	2.8	2
4.0	3.8	3.6	3.4	..								3
4.2	3.8	3.5	3.2	2.8								4
4.1	4.0	4.0	3.4	3.0								5
4.2	4.0	3.7	3.4	2.9								6
4.0	4.2	3.7	3.6	3.0						1.8		7
4.2	4.0	3.8	3.5	3.0								8
4.2	4.2	3.8	3.5	3.0								9
4.2	4.1	3.9	-	-								10
..	..	..	..	..				G				11
4.1	4.0	4.0	..	..								12
G	C	C	G	..								13
4.4	C	3.9	G	3.2				2.9	2.4			14
..	.	..	G	-								15
G	4.0	..	G	G								16
4.3	4.2	3.8	G	G								17
4.2	4.1	3.7	C	C								18
4.5	C	C	4.8	3.8								19
..	4.2	G	G	C								20
4.3	C	G	G	..								21
..	G	5.0	C	C								22
..	..	3.8	C	C								23
4.1	..	3.7	C	C		3.0						24
4.2	..	..	C	C								25
4.7	C	C	G	C								26
4.0	.	5.0	C	..								27
3.9	..	3.8	C	C								28
..	..	3.8	C	C								29
3.9	3.9	3.7	C	3.2			G				2.9	30
4.2	4.0	3.9	3.6	3.1	..	..	..	.	..	..	..	Mean
4.2	4.0	3.8	3.2	3.0	..	..	..	..	..	..	..	Median
23	17	23	18	11	1	..	..	1	2	2	2	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : fb Es
 Unit : Mc
 Month : November 1960

TABLE 49—*contd.*
 Ionospheric Data
 75°E Mean Time

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

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

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

Characteristic : fb Es

TABLE 49—contd.

Latitude : 10 2° N

Unit : Mc

Ionospheric Data

Longitude : 77 5° E

Month November 1960

75°E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.8	3.6	3.4	3.0	2.5				2.4	1.6			1
G	3.7	G	3.3	..					2.0	2.6	2.1	2
3.9	3.8	3.6	3.3	.								3
4.1	3.8	3.4	3.1	2.5								4
4.0	4.0	3.6	3.3	2.6								5
4.1	3.8	3.7	3.2	2.7						2.5	1.9	6
4.0	4.0	3.7	3.3	2.6						2.6	2.8	7
4.1	3.9	3.7	3.2	..								8
4.1	4.0	G	3.3	..								9
4.2	4.1	.	.	..								10
4.0	4.0	..	..	.								11
C	C	..	..	..								12
C	..	G	..	..				2.8				13
..	..	G	G	.								14
G	G	G	G	..								15
4.3	4.1	G	G	..								16
4.3	3.9	C	C	..								17
4.3	4.1	4.7	4.3	..								18
4.3	4.0	G	G	3.2						3.0		19
C	G	C	G	..								20
.	5.0	C	..	..								21
.	4.0	C	C	..								22
.	3.8	C	C	..	3.8		3.4					23
G	C	C	C	.								24
6.0	4.1	G	G	..								25
..	4.0	4.3	C	..								26
3.8	4.0	C	C	..								27
4.0	3.9	C	C	3.6					2.9			28
											2.5	29
												30
4.2	4.0	3.8	3.3	2.8	..			.	..	..	..	Mean
4.0	4.0	3.4	3.2	2.6	.	..	.	..	..	.	.	Median
20	24	17	15	7	1	.	1	2	3	4	4	Count

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

Characteristic : fmin
Unit : Mc
Month : November 1960

TABLE 50
Ionospheric Data
75°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	1.1	1.3	1.2	1.1	1.4	1.2	1.8	1.6	2.0	2.4	2.5	2.7
2	1.5	1.5	1.3	1.6	1.2	1.5	2.0	1.7	2.1	2.4	2.4	2.5
3	1.9	1.7	1.5	1.4	1.5	1.5	2.0	1.7	C	C	C	2.8
4	2.1	2.5	2.5	2.5	1.6	1.5	2.4	3.0	2.9	2.9	2.9	3.1
5	1.8	C	C	C	C	C	C	C	C	C	C	3.8
6	2.2	1.8	2.4	2.4	2.3	2.1	2.7	2.4	2.7	2.6	3.2	3.1
7	2.0	1.8	1.4	1.7	2.0	1.5	2.2	2.3	2.6	3.0	2.9	2.9
8	2.0	1.8	1.7	1.5	1.5	1.7	2.2	1.8	2.2	2.3	2.6	2.7
9	1.6	1.9	1.7	1.7	1.4	1.5	2.2	2.1	2.6	3.1	3.2	3.6
10	1.9	1.8	1.5	1.8	1.7	1.7	2.2	2.1	2.6	3.2	3.0	3.0
11	2.0	1.8	1.5	1.8	1.6	1.8	2.1	2.2	2.7	3.2	5.4	5.0
12	1.7	1.8	1.9	1.6	1.7	1.7	2.7	2.8	2.8	3.2	3.0	C
13	2.2	1.7	1.6	1.8	1.6	E	3.0	2.8	2.8	3.8	3.0	C
14	1.6	1.2	1.1	1.0	1.7	E	2.3	2.8	3.8	7.6	5.2	4.4
15	2.4	2.0	1.7	1.7	1.8	1.9	2.8	2.2	8.6	6.4	5.4	5.0
16	1.6	1.7	1.5	1.6	1.8	1.6	2.8	2.7	3.8	4.4	4.4	4.4
17	2.2	2.0	2.6	2.4	1.9	E	3.3	3.0	3.6	4.2	3.3	3.7
18	2.5	2.6	2.7	2.3	2.6	2.2	3.2	3.2	C	C	3.2	C
19	2.3	2.3	2.4	2.4	2.5	E	2.9	2.8	C	C	C	C
20	2.3	1.8	2.4	2.1	2.2	2.1	2.3	3.0	2.9	3.2	3.3	3.5
21	2.4	1.8	2.2	2.0	2.2	2.2	2.6	3.3	C	C	C	4.2
22	2.6	2.2	2.6	2.4	2.6	2.6	2.8	2.8	C	C	3.2	4.2
23	2.4	2.4	2.4	2.6	1.9	E	2.6	2.2	2.8	C	3.1	4.0
24	1.8	1.9	2.2	1.7	1.9	E	2.6	C	C	C	3.0	4.2
25	2.4	2.2	2.2	2.1	2.0	2.6	2.6	2.8	C	C	2.6	2.8
26	2.5	2.5	2.5	2.3	2.2	2.5	2.6	2.5	3.2	C	C	C
27	2.3	2.4	2.4	2.2	2.5	2.1	2.6	2.8	3.3	3.6	2.9	3.8
28	2.4	2.0	2.3	2.4	2.7	2.8	2.8	2.9	C	C	3.1	3.2
29	2.7	2.8	2.6	2.2	2.0	2.2	2.7	C	C	C	3.0	3.3
30	2.1	2.4	2.5	2.0	2.5	2.0	2.6	2.9	C	C	2.8	3.0
Mean	2.1	2.0	2.0	1.9	1.9	1.9	2.5	2.5	3.2	4.0	3.3	3.6
Median	2.2	1.9	2.2	2.0	1.9	1.7	2.6	2.8	2.8	3.2	3.0	3.5
Count	30	29	29	29	29	29	29	27	19	17	25	25

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

Characteristic : fmin

Unit : Mc

Month : November 1960

TABLE 50
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
2.6	2.6	2.4	2.3	2.1	2.0	1.4	1.3	1.2	1.3	1.2	1.3	1
2.6	2.8	2.7	2.4	2.0	2.2	1.2	1.3	1.5	1.6	1.7	1.5	2
2.9	2.9	2.7	2.8	2.4	3.2	2.1	2.0	1.6	2.3	2.4	1.8	3
3.0	2.8	2.5	2.3	2.0	2.1	2.0	1.9	1.7	1.7	1.7	1.7	4
3.6	3.3	3.0	2.6	2.4	2.0	1.3	2.0	1.9	1.8	3.1	2.8	5
3.0	3.1	2.6	2.6	2.5	2.4	1.8	2.4	2.0	1.7	1.7	1.8	6
3.0	3.4	2.7	2.6	2.0	2.3	1.3	1.5	1.9	1.3	1.7	1.7	7
2.8	3.1	2.8	2.6	2.6	2.3	1.6	2.0	2.0	2.2	1.7	2.1	8
3.4	3.2	2.9	2.9	2.8	2.5	1.6	2.1	2.1	2.1	2.0	2.0	9
3.3	3.6	2.8	3.6	4.7	2.8	1.8	1.8	1.7	1.6	2.4	2.2	10
4.6	4.5	4.0	3.7	2.6	2.6	2.4	1.8	C	2.4	1.8	1.9	11
2.9	3.2	3.2	3.6	3.0	2.6	1.7	1.8	1.9	2.4	2.3	2.5	12
C	C	C	3.6	3.0	2.8	2.4	2.2	2.3	1.7	1.6	1.5	13
3.8	C	3.8	3.6	2.8	2.7	1.9	2.4	1.9	2.3	2.2	2.2	14
4.9	4.6	4.0	3.6	3.1	2.9	2.2	2.2	2.2	2.3	2.2	2.3	15
4.4	3.3	4.3	4.2	3.6	3.1	3.1	2.8	3.0	2.4	2.4	2.4	16
3.8	3.4	3.3	3.8	3.5	2.9	3.0	2.3	2.2	2.4	2.7	2.3	17
C	C	3.3	C	C	3.2	2.8	2.8	2.7	3.0	3.2	2.7	18
C	C	C	3.1	2.7	3.3	3.1	2.6	2.8	2.8	3.1	2.3	19
4.3	3.5	4.3	3.8	C	3.1	2.8	2.4	2.2	2.2	2.2	2.2	20
C	C	3.0	3.4	3.0	2.3	1.8	1.8	1.8	2.4	2.2	2.5	21
4.2	4.3	C	C	3.0	2.6	2.0	2.4	2.0	2.8	2.0	2.0	22
4.0	3.8	3.0	C	3.0	2.8	2.2	2.2	2.0	2.0	2.4	2.4	23
3.4	4.0	3.0	C	3.0	2.7	2.6	2.8	2.8	2.8	3.2	2.6	24
2.7	4.0	3.8	C	C	2.7	2.9	2.5	2.8	2.8	2.7	2.7	25
3.0	C	C	3.6	C	3.1	3.1	2.7	2.3	2.1	2.1	2.3	26
4.1	3.9	2.7	3.5	3.0	2.6	2.4	2.7	2.8	2.6	2.8	2.0	27
3.1	4.1	2.8	C	3.2	2.7	2.0	2.2	2.2	2.2	2.8	2.7	28
4.2	3.8	2.5	C	C	C	2.6	3.1	2.4	2.3	2.3	2.1	29
3.1	2.6	2.9	C	3.1	3.1	2.9	C	2.6	2.5	2.2	2.0	30
3.5	3.5	3.1	3.2	2.8	2.7	2.2	2.2	2.2	2.2	2.3	2.2	Mean
3.4	3.4	3.0	3.4	3.0	2.7	2.2	2.2	2.1	2.3	2.2	2.2	Median
26	24	26	22	25	29	30	29	29	30	30	30	Count

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

600

Characteristic : fmin
 Unit : Mc.
 Month : November 1960

TABLE 50—contd.
 Ionospheric Data
 75°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.2	1.5	1.4	1.2	C	1.3	1.8	1.8	2.1	2.4	2.6	2.7
2	1.4	1.4	1.5	1.5	1.3	1.5	1.6	1.8	2.2	2.3	2.5	2.6
3	1.8	1.5	1.3	1.5	1.4	1.6	2.4	2.0	2.1	C	C	2.9
4	2.5	2.3	2.6	2.6	1.5	1.7	2.6	2.5	2.8	2.8	3.0	2.9
5	1.8	C	C	C	C	C	C	C	C	C	3.2	3.4
6	2.2	2.7	2.5	1.9	2.3	2.2	2.5	2.3	2.6	2.8	4.4	3.1
7	1.5	1.6	1.7	1.5	1.6	1.8	1.8	2.9	2.8	2.7	3.0	3.0
8	2.1	1.7	1.5	1.7	1.8	1.7	2.4	2.2	2.4	2.5	2.7	2.9
9	1.5	1.7	1.6	1.6	1.7	1.5	2.6	2.4	3.0	3.2	3.4	3.3
10	2.1	1.8	1.7	1.8	1.8	1.7	2.8	2.5	3.2	2.8	2.8	3.0
11	1.8	1.8	1.5	1.8	1.9	1.9	2.6	2.5	9.0	5.8	5.3	4.7
12	1.9	1.5	2.2	1.8	1.7	1.8	2.8	3.0	3.0	2.7	2.9	2.9
13	2.0	2.0	2.2	1.5	2.3	1.6	2.9	2.9	2.9	3.0	C	C
14	1.5	1.5	1.1	1.5	1.6	1.8	3.0	2.7	8.0	6.0	4.8	3.8
15	2.2	2.2	1.8	1.9	1.7	1.9	3.0	B	7.0	6.0	5.0	4.9
16	1.7	1.6	1.7	2.2	1.9	2.8	2.8	3.3	4.2	4.0	4.0	4.4
17	2.2	2.7	1.8	3.0	2.5	E	3.4	3.2	4.0	3.2	4.1	3.6
18	2.9	2.3	2.9	2.7	2.8	2.5	3.3	C	C	3.3	3.3	C
19	2.8	2.4	2.6	2.6	2.7	2.3	3.1	C	C	C	C	C
20	2.1	1.9	2.0	2.2	2.3	2.3	2.8	C	2.9	3.1	3.5	3.5
21	2.0	2.4	2.2	1.7	2.1	2.0	3.2	C	C	C	4.2	4.4
22	2.6	2.2	2.2	2.1	2.6	2.6	2.8	C	C	3.2	4.0	4.4
23	2.4	2.2	2.1	2.6	E	E	2.5	2.8	C	3.0	4.0	4.2
24	1.9	2.2	1.8	2.0	1.9	2.0	2.8	C	C	3.0	3.2	3.3
25	2.2	2.4	2.2	2.0	1.8	1.8	2.8	C	C	2.5	4.2	2.8
26	2.7	2.1	2.7	2.4	2.3	2.4	2.2	C	C	2.8	3.1	3.2
27	2.3	2.5	2.4	2.3	2.3	2.4	2.8	3.1	3.5	2.8	4.0	3.6
28	2.6	1.9	2.6	2.5	2.5	2.1	2.8	C	C	2.7	3.2	3.2
29	2.6	2.4	2.6	2.4	2.5	E	2.7	C	C	2.8	3.5	4.0
30	2.3	1.7	2.0	1.9	2.1	2.3	2.5	C	C	3.0	3.1	3.1
Mean	2.1	2.0	2.0	2.0	2.0	1.9	2.7	2.6	3.8	3.2	3.6	3.5
Median	2.1	2.0	2.0	1.9	1.9	1.8	2.8	2.5	3.0	2.9	3.4	3.3
Count	30	29	29	29	28	29	29	17	18	26	27	27

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

Characteristic · fmin
Unit . Mc
Month : November 1960

TABLE 50—*contd*
Ionospheric Data
75°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.7	2.6	2.4	2.1	2.1	1.6	1.3	1.2	1.1	1.1	1.4	1.5	1
2.9	2.7	3.0	2.7	2.6	1.6	1.4	1.4	1.3	1.5	1.5	2.1	2
3.0	2.7	3.0	2.7	3.3	3.0	1.7	1.8	2.2	2.2	2.2	2.0	3
3.0	2.7	2.4	2.3	2.0	2.2	1.8	1.6	1.8	1.8	1.7	1.7	4
3.0	3.2	2.7	2.4	2.1	1.7	1.3	2.1	1.8	2.2	3.0	2.6	5
2.8	2.6	2.6	2.3	2.2	2.4	2.1	2.1	1.5	1.6	1.9	1.8	6
3.0	3.0	2.9	2.6	2.0	2.1	1.7	1.6	1.7	1.6	1.6	1.5	7
2.8	3.2	3.0	2.5	2.7	2.0	1.7	1.9	2.0	2.2	1.2	1.9	8
3.5	3.2	3.2	2.6	3.0	2.0	1.7	2.1	2.2	2.1	1.8	2.1	9
3.2	3.4	3.8	6.2	4.6	2.6	1.8	1.8	1.8	1.6	2.0	1.7	10
4.4	4.2	4.0	3.4	2.8	2.6	2.2	2.4	2.6	2.2	1.7	C	11
3.1	3.0	4.0	3.4	2.8	2.2	1.6	2.2	2.3	2.5	2.0	2.6	12
C	C	4.2	3.4	2.9	2.4	2.5	2.0	1.8	1.7	1.8	1.5	13
C	4.2	4.0	3.4	3.2	2.6	2.2	2.2	1.8	2.3	2.2	2.5	14
4.6	4.0	4.0	3.4	2.8	2.4	2.2	2.4	2.3	2.4	2.4	2.1	15
4.2	4.2	4.6	3.9	3.8	3.2	2.7	2.9	3.2	2.8	2.5	2.4	16
3.8	3.4	4.0	3.5	3.5	2.9	2.7	2.6	2.4	2.4	2.4	2.3	17
C	3.3	C	C	C	3.0	2.6	2.9	3.0	3.1	2.9	2.8	18
C	C	3.1	2.8	3.5	3.0	2.8	2.5	2.6	2.8	2.2	2.3	19
3.6	3.3	4.5	4.2	2.2	2.9	2.4	2.5	2.4	2.2	2.4	2.0	20
C	3.0	3.7	3.4	2.6	1.9	2.5	2.2	2.4	2.4	2.4	2.6	21
4.2	C	C	3.2	2.8	2.2	2.2	2.2	2.4	2.6	2.2	1.5	22
4.2	3.2	C	3.3	3.0	2.4	2.0	2.4	1.9	2.2	2.6	2.6	23
4.0	3.2	C	C	3.4	2.8	3.0	2.3	2.5	2.8	3.2	2.5	24
4.0	C	C	C	2.8	2.6	3.1	2.9	2.5	2.5	2.6	2.4	25
2.8	2.7	4.0	3.5	2.9	2.5	2.5	2.5	2.8	2.8	2.4	2.2	26
4.0	3.6	2.6	3.5	2.9	2.6	2.2	2.4	2.6	2.4	3.0	2.6	27
3.1	3.3	C	3.2	3.2	2.4	2.8	2.3	2.2	2.6	2.6	2.4	28
4.0	3.8	C	C	C	2.8	2.5	2.7	3.0	2.2	2.2	2.4	29
2.8	2.9	C	C	3.0	3.1	2.3	2.4	2.5	2.5	2.6	2.1	30
3.5	3.2	3.4	3.2	2.9	2.4	2.2	2.2	2.2	2.2	2.2	2.2	Mean
3.2	3.2	3.4	3.3	2.8	2.4	2.2	2.2	2.3	2.2	2.2	2.2	Median
25	26	22	25	28	30	30	30	30	30	30	29	Count

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

Characteristic : h^m F₂
 Unit : Km
 Month : November 1960

TABLE 51
 Ionospheric Data
 75°E Mean Time

Latitude . 10 2° N
 Longitude . 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	G	G	C	L
4								L	L	L	L	L
5								C	C	G	C	C
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	B	B	B
12									L	L	L	C
13								L	L	L	L	C
14								L	L	B	L	L
15								L	B	L	L	L
16									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	L
26								L	L	C	C	C
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
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 : November 1960

TABLE 51
 Ionospheric Data
 75°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
L	L	L	L	L	L							4
C	L	L	L	L	L							5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L								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				L			17
L	L	L	L	L	L				L			18
L	L	L	L	L	L				L			19
L	L	L	L	L	L				L			20
L	L	L	L	L	L				L			21
L	L	L	L	L	L				L			22
L	L	L	L	L	L				L			23
L	L	L	L	L	L				L			24
L	L	L	L	L	L				L			25
L	C	C	L	O								26
L	290	L	L	L	L				L			27
L	L	L	L	L	L				L			28
L	L	L	L	L	L				L			29
L	L	L	L	L	L				L			30
.	.	.	.	.	.							Mean
.	.	.	.	.	.							Median
.	1	.	.	.	..							Count

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

Characteristic : h' F₂
 Unit Km
 Month : November 1960

TABLE 51—*contd.*
 Ionospheric Data
 75°E Mean Time

Latitude: 10°2' N
 Longitude: 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	C	L	L
4								L	L	L	L	L
5								G	G	C	C	C
6							L	L	L	L	L	L
7							L	L	L	L	L	L
8							L	L	L	L	L	L
9							L	L	L	L	L	L
10							L	L	L	L	L	L
11								L	B	B	B	B
12								L	L	L	L	L
13							L	L	L	L	C	C
14								L	B	L	L	L
15								B	L	L	L	L
16								L	L	L	L	L
17							L	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	L
23							L	L	L	L	260	L
24							L	L	L	L	L	L
25							L	L	L	L	L	L
26								L	C	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	260	L
Mean						
Median						
Count							2	.

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

Characteristic h' F₂
 Unit : Km
 Month : November 1960

TABLE 51—*contd.*
 Ionospheric Data
 75°E Mean Time

Latitude: 10 2° N
 Longitude: 77.5° E

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

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

Characteristic $h' F$
Unit : Km.
Month: November 1960

TABLE 52
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	230	235	250	260	250	235	270	240	235	220	200	215
2	220	210	220	220	225	240	260	240	220	215	200	220
3	240	240	220	220	230	225	260	240	C	C	C	200
4	220	220	220	220	230	240	260	240	230	220	205	200
5	250	C	C	C	C	C	C	C	C	C	C	C
6	240	235	225	225	225	240	260	240	230	220	210	200
7	235	225	220	230	230	230	260	240	230	215	210	200
8	240	235	220	220	220	235	260	240	225	210	200	210
9	235	230	215	215	225	250	270	245	230	220	220	220
10	$\nu 250F$	$\nu 230F$	$\nu 225F$	225	220	245	270	245	230	225	215	215
11	240	230	225	220	220	225	265	235	225	B	B	B
12	250	230	235	220	230	235	270	245	230	220	215	C
13	205	260	305	300	390	E	300	250	240	230	225	C
14	260	260	345	L	335	E	255	240	230	B	$\nu 250B$	205H
15	220	215	210	225	270	225	265	235	B	B	B	B
16	245	255	275	280	215	250	250	260	240	$\nu 245B$	$\nu 220B$	$\nu 220B$
17	230	225	235	240	230	E	260	225	220	220	205	210
18	260	260	245	260	240	250	255	225	225	225	215	220
19	235	235	225	225	215	E	270	230	225	235	225	220
20	220	210	220	220	235	230	260	230	220	220	200	200
21	230	225	225	240	230	230	260	240	230	220	220	220
22	280	280	240	220	210	240	270	225	220	220	220	220
23	220	220	210	225	220	E	265	235	220	210	205	200
24	240	225	220	210	210	E	240	230	220	220	200	200
25	220	220	250	215	225	L	240	230	220	225	225	200
26	250	250	220	240	260	280	255	230	220	C	C	C
27	230	215	225	230	225	220	235	220	210	195H	180	185
28	235	240	230	230	225	220	250	230	215	205	200H	200
29	245	235	220	210	200	240	240	225	200	200	190	195
30	235	235	225	220	205	220	250	215	210	200	200	200
Mean	235	235	235	230	235	235	260	235	225	220	210	205
Median	235	230	225	225	225	240	260	235	225	220	210	200
Count	30	29	29	28	29	28	29	29	27	24	25	24

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

Characteristic : h' F
Unit : Km
Month : November 1960

TABLE 52
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
215	210	200	220	240	260	310	F	320	300	270	210	1
200	200	210	220	240	270	340	F	280	240	240	245	2
200	210	200	205	240	255	315	315	245	225	235	225	3
215	215	215	215	240	260	330	350	300	295	250	240	4
C	200	215	225	240	260	335	F	280	240	260	250	5
200 _H	205 _H	200 _H	225	245	270	345	360	300	255	235	240	6
210	215	215	230	245	275	335	370	315 _F	260	250	240	7
200	220	215	220	240	265	340	340 _F	F	F	305 _F	255	8
215 _H	210	210	220	240	270	340	F	F	380 _F	370 _F	260 _F	9
210	220	210	220	B	275	340	395 _L	350 _F	310 _F	300	270	10
220	225	220	230	250	270	290	285	C	250	250	250	11
200	200	220	220	245	265	340	415	F	F	290	225	12
C	C	C	245	260	245	230	235	310	305	260	280	13
200 _H	C	220 _H	235	240	260	300	330	345	305	265	240	14
250 _B	230	220	225	245	265	300	380	420	385	325	280	15
220	215	230 _B	235	235	260	310	320	295	255	230	230	16
200 _H	200	200	220	235	245	305	340	315	315	310	270	17
200	200	215	240	225	260	340	F	F	F	285	255	18
220	220	210	260 _A	240	255	300	320	310	280	250	225	19
200	210	230	220	C	260	315	335	280	240	220	235	20
215	200	210	220	240	260	300	260	210	220	235	250	21
220	225	A	220	220	250	260	280	280	275	240	230	22
200	210	210	200	230	250	290	310	270	220	215	240	23
200	200	205	220	220	240	280	280	240	220	220	230	24
210	210	210	C	C	270	280	310	280	210	255	210	25
250 _A	C	C	210	C	260	320	350	320	285	245	240	26
200	205	A	200	225	240	270	275	260	250	240	235	27
195	200 _H	200	205	220	250	260	320	285	270	260	260	28
200	190	200	200	220	240	280	280	260	260	250	240	29
190	195	185	215	220	245	300	345	315	290	250	260	30
210	210	210	220	235	260	305	330	295	275	260	245	Mean
200	210	210	220	240	260	310	320	295	260	250	240	Median
28	27	26	29	26	30	30	25	25	27	30	30	Count

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

Characteristic · h'F
Unit : Km
Month : November 1960

TABLE 52—*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	225	245	255	260	C	250	255	235	220	205	205 _H	210
2	220	215	220	230	235	260	245	235	220	205	200	200
3	235	220	220	220	240	240	255	220	215	C	200	205
4	220	220	225	240	235	260	250	235	220	215	200	200
5	235	C	C	C	C	C	C	C	C	C	C	C
6	240	235	230	220	230	270	245	230	225	210	220	200
7	230	220	225	235	220	240	245	235	220	215	210	205
8	240	230	220	220	225	255	250	230	220	205	200	200
9	220	220	215	220	245	275	255	240	220	225	220	215 _H
10	υ250 _F	υ230 _F	υ220 _F	220	230	270	250	240	230	220	215 _H	205
11	240	225	220	230	215	245	250	235	B	B	B	B
12	250	220	230	220	230	260	250	240	225	215	215	210
13	240	300	280	320	F	370	245	240	235	225	C	C
14	265	300	385	370	315	300	240	230	B	B	240	230
15	220	220	220	250	265	230	250	B	B	B	B	υ250 _B
16	240	270	285	230	225	200	250	250	υ240 _B	220	205 _H	υ215 _B
17	230	230	225	260	220	E	240	220	220	205	205	205
18	260	250	255	265	220	220	240	225	225	200	200	215
19	240	225	225	220	230	280	240	230	220	230	240	225
20	220	220	220	235	240	265	240	230	215	215	200	200
21	220	230	230	240	220	240	250	240	250	220	220	215
22	280	260	240	200	220	240	240	220	220	220	200	220
23	220	220	210	240	E	E	240	220	200	210	200	200
24	230	220	210	220	210	320	240	225	220	200	200	200
25	220	240	240	200	220	230	240	230	215	205	205	200
26	250	220	220	250	280	290	240	υ220 _G	C	200	200	200
27	220	215	240	220	220	230	235	210	200	180	195	200
28	240	235	235	220	220	220	240	220	210	200 _H	200	195
29	235	225	210	220	210	E	230	215	200	185	195	190
30	235	230	225	210	210	260	240	215	200	200	195	190
Mean	235	235	235	235	230	260	245	230	220	210	205	205
Median	235	225	225	230	225	260	245	230	220	210	200	205
Count	30	29	29	29	27	29	29	28	25	25	26	27

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

Characteristic: $f_1 F$
 Unit: Km.
 Month: November 1960

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
205	210	220	240	250	275	360	F	320	280	260	230	1
200	220	200	235	250	285	380	310	250	240	240	240	2
215	215	210	235	250	280	320	280	240	225	235	220	3
220	220	210	220	250	295	355	330	300	280	240	245	4
200	200	215	240	250	280	375	340	265	250	280	250	5
215	205	215	230	255	290	375	325	275	240	245	235	6
205	215	230	235	260	290	360	345	300 _F	255	260	250	7
210	210	215	230	250	285	400	F	F	F	u270 _F	240	8
205	215	220	230	250	270 _{II}	u400 _F	u450 _F	F	u340 _F	F	u260 _F	9
200	220	220	B	B	300	385	370	330	310	280	235	10
220	215	230	240	260	275	290	280	255	255	250	255	11
205	205	u225 _B	235	255	290	395	F	F	u360 _F	250	210	12
C	C	B	255	250	255	205	310	300	265	270	280	13
C	220	235	235	255	280	325	330	330	280	260	220	14
245	220	225	230	250	275	330	400	420	370	310	265	15
310	220	u250 _B	240	250	280	320	300	285	240	225	230	16
200 _{II}	200 _{II}	220	220	240	260	340	330	315	315	285	265	17
220	200	240	225	240	280	435	F	340	F	F	245	18
215	215	245	250	245	265	320	305	300	265	230	220	19
210	205	250	245	235	280	340	300	250	225	240	240	20
205	215	215	230	245	270	300	230	220	220	245	270	21
220	A	220	220	220	260	270	270	270	265	240	230	22
200	200	220	220	240	260	320	300	240	220	240	240	23
200	190	220	220	240	265	300	265	220	220	220	205	24
200	C	C	C	240	260	300	320	260	240	245	240	25
A	215A	220	220	245	270	340	325	320	260	240	245	26
200 _{II}	200	235	210	230	255	275	265	260	245	235	240	27
180	200	200 _{II}	205	240	265	320	305	270	265	250	245	28
185	200	210	215	235	260	290	265	265	260	240	235	29
190	190	u220 _B	220	240	260	300	320	320	270	260	250	30
205	210	225	230	245	275	335	315	285	265	250	240	Mean
205	210	220	230	250	275	330	310	275	260	245	240	Median
27	27	28	28	29	30	30	26	27	28	28	30	Count

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

Characteristic : h'E
Unit : Km.
Month . November 1960

TABLE 53
Ionospheric Data
75°E Mean Time

Latitude : 10°2' N
Longitude: 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2							40	A	A	A	A	A
3								105	C	C	C	A
4									A	A	A	A
5							C	C	C	C	C	C
6								115	A	A	A	A
7								115	A	A	A	A
8								A	A	A	A	A
9								115	A	A	A	A
10								A	A	A	A	A
11								105	A	B	B	B
12									115	R	A	C
13									115	B	A	C
14									B	B	B	B
15								120	B	B	B	B
16									B	B	B	B
17									C	B	A	A
18									C	C	A	A
19								C	C	C	A	A
20									A	A	A	A
21									C	C	C	B
22									C	C	A	B
23									C	C	A	B
24								Q	C	C	A	B
25									C	C	A	A
26								A	C	C	C	C
27									C	C	A	B
28									C	C	A	A
29								C	C	C	A	A
30									C	C	A	A
Count							1	6	2			.
Median							.	115	..			.
Mean							..	110	..		..	.

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

Characteristic : h'E
 Unit : Km.
 Month : November 1960

TABLE 53
 Ionospheric Data
 75°E Mean Time

Latitude : 10.2° N
 Longitude : 77.5° E

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

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

Characteristic : h'E
Unit : Km.
Month : November 1960

TABLE 53—*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							120H	A	A	A	A	A
2							115	A	A	A	A	A
3							..	110	A	C	A	A
4							..	A	A	A	A	A
5							G	C	C	C	C	C
6							..	A	A	A	B	A
7							115	120	A	A	A	A
8								A	A	A	A	A
9								115	115	A	A	A
10								A	A	A	A	A
11								A	B	B	B	B
12								..	115	110	A	A
13								115	115	105	C	C
14								A	B	B	B	B
15								B	B	B	B	B
16								..	B	B	B	B
17								..	B	A	B	A
18								C	C	A	A	A
19								C	C	C	A	A
20								C	A	A	A	A
21								C	C	C	B	B
22								C	C	A	B	B
23								C	C	A	B	B
24								C	C	A	A	A
25								C	C	A	B	A
26							A	C	C	A	A	A
27								..	C	A	B	A
28								C	C	A	A	A
29								C	C	A	A	B
30								C	C	A	A	A
Mean						
Median						
Count							3	4	3	2	.	..

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

Characteristic : h'E
 Unit : Km.
 Month . November 1960

TABLE 53.—*contd.*
 Ionospheric Data
 75°E Mean Time

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

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

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : h'Es
 Unit : Km.
 Month : November 1960

TABLE 54
 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								100	100	100	100	100
2							G	100	100	100	100	100
3	100	100						G	C	C	C	100
4								C	100	100	100	100
5		C	C	C	C	C	C	C	C	C	C	C
6								G	100	100	100	100
7								G	100	100	100	100
8								100	100	100	100	100
9								100	100	100	100	100
10								100	100	100	100	100
11								G	100	B	B	100
12								100	100	100	100	C
13								100	G	G	100	C
14			100	120	..	..	..	100	G	B	B	95
15			..	..	..	..	..	G	B	B	B	B
16			105	105	..	..	..	100	G	G	G	90
17								100	C	G	100	95
18								100	C	C	100	100
19								100	C	C	100	100
20								100	100	100	100	100
21								100	C	100	100	95
22								100	C	C	100	G
23								100	C	C	95	95
24								100	C	C	95	95
25								100	C	C	95	95
26								100	C	C	C	C
27								100	C	C	90	90
28								100	C	C	95	90
29								100	C	C	90	90
30								100	C	C	100	100
Mean	..	.	..	..	..	.	..	100	100	100	100	95
Median	..	..	..	.	..	..	..	100	100	100	100	100
Count	1	1	2	2	..	..	.	6	11	11	23	24

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

Characteristic : h'Es
 Unit : Km.
 Month : November 1960

TABLE 54
 Ionospheric Data
 75°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100					105			1
100	100	100	100	100					105	110	100	2
100	100	100	100	100								3
100	100	100	100	100								4
C	100	100	100	100								5
100	100	100	100	100						105	105	6
100	100	100	100	100						100	105	7
100	100	100	100	100								8
100	100	100	100	100								9
100	100	100	100	B								10
G	100	100	100	100				C				11
100	100	100	100	100								12
C	C	C	G	..								13
100	C	100	G	100				105	100			14
B	95	100	G	..								15
G	100	90	G	..								16
95	95	95	G	..								17
100	100	100	C	C								18
100	C	C	100	100								19
100	100	G	G	C								20
95	C	G	G	..								21
100	G	105	C	..					105			22
95	95	95	C	..								23
95	95	95	C	..	95							24
95	95	95	C	C								25
100	C	C	G	C								26
90	90	90	C	..								27
90	90	90	C	..								28
90	90	90	C	C			C					29
100	100	100	C	110							100	30
												..
100	100	100	100	100	..	..	.	..	..	..	..	Mean
100	100	100	100	100	..	..	..	..	..	..	..	Median
25	24	25	13	13	1	..	..	1	4	3	4	Count

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

Characteristic : h'Es
 Unit : Km.
 Month . November 1960

TABLE 54—*contd*
 Ionospheric Data
 75°E Mean Time

Latitude. 10.2° N.
 Longitude: 77.5° E.

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							G	100	100	100	100	100
2							G	100	100	100	100	100
3								G	100	C	100	100
4								100	100	100	100	100
5								C	C	C	C	C
6								100	100	100	100	100
7	100						G	G	100	100	100	100
8								100	100	100	100	100
9								100	100	100	100	100
10								100	100	100	100	100
11								100	B	B	100	100
12									100	100	100	100
13								G	100	G	C	C
14		100	105					100	B	B	90	100
15			..					B	B	B	B	B
16			105						G	100	90	90
17								..	G	100	95	95
18									C	100	100	100
19									C	C	100	100
20									C	100	100	100
21									C	C	100	95
22									C	C	100	G
23									C	C	95	95
24									C	C	95	95
25									C	C	95	G
26							100	C	C	100	100	100
27									C	C	90	90
28									C	C	95	90
29									C	C	90	90
30									C	C	100	100
Mean	..	..		..				..	100	100	100	100
Median	.		..	.	.	.	.	.	100	100	100	100
Count		1	1	2	..	..	.	1	9	12	23	26

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

Characteristic : h'Es
 Unit : Km.
 Month : November 1960

TABLE 54—contd.
 Ionospheric Data
 75°E Mean Time

Latitude: 10.2° N.
 Longitude: 77.5° E.

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	105				105	120			1
G	100	G	100						105	100	100	2
100	100	100	100									3
100	100	100	100	100								4
100	100	100	100	100								5
100	100	100	100	105						105	105	6
100	100	100	100	100						100	100	7
100	100	100	100									8
100	100	G	100									9
100	100	100	B	B								10
100	100	100	100									11
100	100	100	100									12
C	C	B	100									13
C	100	G	100					100				14
95	95	G	G	100								15
G	G	G	G									16
95	95	G	..									17
100	100	C	C	C								18
100	100	100	100									19
100	100	G	G	95						100		20
C	G	95	G									21
100	100	C	..									22
95	95	C	..									23
95	95	C	C	..	95	..	100	..				24
G	C	C	C									25
100	100	G	G									26
90	100	90	C									27
90	90	C	C									28
90	90	C	C	C					100			29
100	100	C	C	100							100	30
100	100	100	100	100	.	..	..	..	..	..	..	Mean
100	100	100	100	100		..	..	..	..	..	..	Median
24	26	13	14	8	1	..	1	2	3	4	4	Count

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

Characteristic : (M 3000) F₂

Unit : —

Month : November 1960

TABLE 55

Ionospheric Data

75°E Mean Time

Latitude 10.2° N

Longitude 77.5° E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	3 20	3 10	3 10	3 05	3 10	3 20	3 00	2 80	2 40	2 50	2 40	2 50
2	3 15	3 30	3 30	3 30	3 35	3 20	3 05	2 95	2 60	2 55	2 40	2 50
3	u3 15s	3 20	3 35	3 40	3 30	3 30	3 00	3 05	C	C	C	2 40
4	3 25	3 30	3 45	3 30	3 25	3 30	3 05	2 95	2 60	2 40	2 40	2 40
5	F	C	C	C	C	C	C	C	C	C	C	C
6	3 05	3 20	3 30	3 40	3 45	3 50	3 05	2 90	2 55	2 50	2 50	2 45
7	3 10	3 30	3 20	3 15	3 20	3 30	3 05	3 05	2 90	2 65	2 30	2 40
8	3 00	3 15	3 20	3 25	3 30	3 40	3 10	2 95	2 70	2 45	2 30	2 30
9	u3 10F	3 20	3 40	3 30	3 30	3 25	2 95	3 05	2 75	2 60	2 50	2 45
10	u2 65F	u2 90F	3 15F	3 30F	3 30	3 35	3 00	2 85	2 60	2 50	2 50	2 40
11	C	C	C	C	C	C	C	C	2 75	2 70	2 45	2 30
12	3 05	3 20	3 25	u3 20s	3 30	3 40	3 05	3 05	2 75	2 55	2 40	C
13	3 30	3 00	2 55	2 75	2 35	E	2 80	3 20	2 95	2 60	2 60	C
14	2 90	2 90	2 40	j2 60R	2 65	E	3 00	3 25	2 85	2 70	2 50	2 35
15	3 10	3 20	3 30	3 25	3 00	3 35	3 05	2 90	3 00	2 50	2 45	2 35
16	u2 90F	3 00	2 90	2 90	3 40	3 20	3 15	2 95	2 90	2 95	2 45	2 40
17	3 25	3 30	3 40	3 40	3 40	E	3 00	3 10	2 80	2 55	2 50	2 55
18	F	F	3 05	2 95	3 20	3 45	3 20	3 10	3 00	2 60	2 50	2 50
19	F	3 15	3 30	F	3 50	E	3 00	2 85	2 55	2 60	2 50	2 50
20	3 30	3 30	3 35	3 40	3 40	3 55	3 05	2 95	2 70	2 40	2 45	2 50
21	3 20	3 35	3 35	3 25	3 40	3 50	3 25	3 10	2 75	2 50	2 50	2 60
22	2 95	2 90	u3 15R	3 35	3 30	u3 45R	3 10	2 95	2 95	2 75	2 70	2 70
23	3 15	3 15	3 50	3 45	R	E	3 00	2 90	2 85	2 75	2 55	2 65
24	3 15	3 25	3 40	3 40	3 65	E	3 20	3 20	2 90	2 45	2 55	2 60
25	3 35	3 20	3 15	3 50	3 50	3 50	3 30	3 30	3 10	2 90	5 90	2 95
26	3 10	3 10	3 35	3 45	3 20	u3 20R	2 80	2 90	2 65	C	C	C
27	3 10	3 35	3 20	3 30	3 30	j3 45R	3 35	3 25	2 85	2 60	2 60	2 65
28	3 10	3 05	3 20	3 25	3 35	3 55	3 25	2 75	2 85	2 50	2 60	2 65
29	3 00	3 10	3 35	3 30	3 35	3 45	3 25	3 10	2 65	2 60	2 60	5 60
30	3 15	3 15	3 20	3 40	3 50	3 50	3 15	3 20	3 00	2 65	2 55	2 65
Mean	3 10	3 15	3 20	3 25	3 25	3 40	3 10	3 00	2 80	2 60	2 50	2 50
Median	3 10	3 20	3 30	3 30	3 30	3 40	3 05	3 00	2 80	2 60	2 50	2 50
Count	26	27	28	27	27	22	28	28	28	27	27	26

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

Characteristic : (M 3000) F₂

Unit :—

Month : November 1960

TABLE 55

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
2.45	2.45	2.40	2.30	2.30	2.30	2.30	2.25	2.30	2.50	2.65	F	1
2.55	2.55	2.55	2.60	2.60	2.50	2.25	F	∩2.50 _F	2.75	3.00	3.10	2
2.35	2.40	2.45	2.50	2.55	∩2.65 _R	∩2.45 _R	2.55	2.80	3.10	3.20	3.30	3
2.35	2.40	2.40	2.35	2.40	2.40	∩2.40 _R	∩2.35 _R	2.60	∩2.75 _R	F	3.00	4
C	2.40	2.30	2.35	2.40	2.30	2.20	∩2.15 _F	F	2.65	F	2.90	5
2.35	2.30	2.30	2.35	2.30	2.35	2.25	2.20	2.50	2.60	2.70	2.85	6
2.35	2.35	2.30	2.30	2.20	2.15	2.20	2.15	2.35	2.55	2.70	2.80	7
2.35	2.20	2.25	2.35	2.30	2.20	2.20	∩2.20 _F	F	F	F	∩2.80 _F	8
2.35	2.35	2.40	2.45	2.35	2.25	2.05	∩2.05 _F	F	F	F	∩2.75 _F	9
2.35	2.30	2.30	2.30	2.30	2.40	2.20	F	∩2.20 _F	2.35	2.55	2.65	10
2.25	2.40	2.30	2.25	∩2.10 _s	2.30	2.50	∩2.55 _s	C	2.75	∩3.00 _s	∩3.00 _s	11
2.35	2.30	2.20	2.25	2.35	2.35	2.15	2.00	F	F	2.55	2.85	12
C	C	C	2.20	2.00 _H	2.35	2.65	R	2.20	2.45	2.50	2.65	13
2.30	C	2.20	2.30	2.40	2.30	2.30	2.35	2.40	2.40 _F	2.65 _F	2.85	14
2.40	2.30	2.35	2.40	2.40	2.40	2.20	2.10	2.10	F	F	F	15
2.50	2.50	2.50	2.60	2.75	R	R	2.70	2.75	3.00	3.00	3.20	16
2.40	2.40	2.40	2.45	2.55	2.65	2.50	2.45	2.45	∩2.55 _F	F	F	17
2.40	2.35	2.40	2.40	2.45	2.35	2.30	∩2.20 _F	2.40	F	F	2.85	18
2.50	2.50	2.55	2.60	2.65	R	2.45	2.50	R	2.75	3.00	3.25	19
2.45	2.40	2.50	2.60	C	2.85	2.55	2.55	2.75	3.10	3.25	3.20	20
2.55	2.65	2.75	2.70	2.65	2.65	2.40	2.50	2.90	3.30	3.10	3.00	21
2.55	2.65	2.60	2.65	∩2.65 _R	2.60	R	∩2.70 _R	2.70	2.75	3.00	3.05	22
2.55	2.60	2.55	2.55	2.65	2.60	2.55	2.50	2.70	3.05	3.10	3.15	23
2.60	2.55	2.50	2.60	2.70	2.80	2.70	2.80	2.95	3.20	3.35	3.30	24
2.90	2.90	2.80	C	C	R	2.55	2.45	2.65	2.80	3.00	3.10	25
2.75	C	C	2.75	C	∩2.45 _R	2.30	2.30	2.35	∩2.50 _F	3.00	3.00	26
2.60	2.65	2.70	2.80	2.80	2.85	2.75	2.80	2.90	3.05	3.10	3.05	27
2.70	2.60	2.65	2.55	2.45	2.25	2.40	2.55	2.65	∩2.70 _F	2.75	2.85	28
2.55	2.50	2.50	2.50	2.50	2.60	2.55	2.65	2.70	2.80	3.00	3.05	29
2.55	2.55	2.50	2.50	2.45	2.55	2.50	2.40	2.55	2.60	2.70	∩2.95 _F	30
2.50	2.45	2.45	2.45	2.45	2.45	2.40	2.40	2.55	2.75	2.90	3.00	Mean
2.45	2.40	2.40	2.45	2.45	2.40	2.40	2.45	2.60	2.75	3.00	3.00	Median
28	27	28	29	27	27	28	27	24	25	23	27	Count

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

Characteristic : (M 3000) F₂TABLE 55—*contd.*

Latitude 10 2° N.

Unit :—

Ionospheric Data

Longitude 77 5° E.

Month : November 1960

75°E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	3 20	3 10	3 05	3 05	C	3 05	2 90	2 55	2 50	2 50	2 40	2 45
2	u3 35 _F	3 30	3 30	3 30	3 20	2 75	3 05	2 80	2 60	2 50	2 50	2 55
3	3 20	3 30	3 35	3 30	3 25	2 70	3 10	3 00	2 80	C	2 45	2 40
4	3 30	3 30	3 45	3 40	3 20	2 75	3 05	2 75	2 40	2 60	2 30	2 40
5	F	C	C	C	C	C	C	C	C	C	C	C
6	3 05	3 30	3 30	3 40	3 40	2 80	3 00	2 70	2 50	2 50	2 50	2 40
7	3 20	3 25	3 25	3 15	3 20	3 00	3 15	3 00	2 75	2 40	2 20	2 40
8	3 10	3 30	3 25	3 35	3 40	2 70	3 05	2 80	2 50	2 40	2 30	2 35
9	3 20 _F	3 35	3 45	3 40	3 30	2 75	3 05	2 85	2 65	2 50	2 45	2 45
10	F	u3 15 _F	F	3 40	3 30	2 75	2 95	2 70	2 50	2 45	2 45	2 40
11	C	C	C	C	C	C	C	2 80	2 70	2 50	2 40	2 30
12	3 10	3 20	3 20	3 30	3 35	2 70	3 10	2 95	2 65	2 40	2 40	2 35
13	3 15	2 60	2 80	2 65	F	2 45	3 20	3 10	2 90	2 80	C	C
14	2 85	2 65	2 45	2 60	2 70	2 70	3 25	3 00	2 75	2 60	2 45	2 30
15	3 15	3 30	3 30	3 15	3 10	3 20	3 00	B	2 75	2 40	2 40	2 40
16	F	2 90	2 85	3 15	3 30	3 30	3 10	2 80	3 00	2 65	2 50	2 40
17	3 30	3 25	3 30	3 35	R	E	3 20	2 95	2 60	2 45	2 50	2 50
18	u2 85 _F	3 00	3 05	u3 15 _F	3 30	3 35	3 25	3 05	2 75	2 45	2 50	2 40
19	3 10	3 20	3 30	3 45	3 45	2 95	2 95	2 65	2 55	2 50	2 50	2 50
20	3 30	3 40	3 40	3 40	3 45	2 80	3 00	2 75	2 60	2 35	2 45	2 50
21	3 30	u3 35 _s	u2 40 _s	3 30	3 40	2 90	3 25	2 90	2 55	2 50	2 50	2 55
22	2 90	3 00	3 20	3 40	R	3 20	3 00	2 90	2 85	2 75	2 70	2 60
23	3 15	3 40	3 50	3 50	E	E	3 10	2 95	2 75	2 60	2 65	2 60
24	3 15	3 30	u3 40 _s	3 55	R	2 90	u3 30 _s	3 05	2 70	2 50	2 75	2 50
25	3 30	3 20	3 30	3 60	u3 50 _R	2 80 _R	3 30	3 20	3 05	2 95	2 90	2 90
26	3 10	3 30	u3 50 _R	3 25	3 15	3 05	3 00	u2 75 _α	C	2 65	2 65	2 70
27	3 10	3 40	3 30	3 35	3 35	3 30	3 40	3 05	2 70	2 65	2 60	2 70
28	3 10	3 20	3 25	3 35	3 35	3 40	3 05	2 75	2 65	2 65	2 60	2 70
29	3 10	3 10	3 15	3 45	3 45	E	3 30	2 90	2 65	2 60	2 55	2 65
30	3 10	3 20	3 30	3 45	3 55	u3 15 _R	3 20	3 10	2 85	2 55	2 60	2 60
Mean	3 15	3 20	3 25	3 30	3 30	2 95	3 10	2 90	2 70	2 55	2 50	2 50
Median	3 15	3 25	3 30	3 35	3 30	2 90	3 10	2 90	2 70	2 50	2 50	2 50
Count	26	28	27	28	22	25	28	28	28	28	28	28

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

Characteristic : (M 3000) F₂

TABLE 55—contd.

Latitude 10° 2' N.

Unit :—

Ionospheric Data

Longitude 77° 5' E.

Month : November 1960

75°E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.50	2.40	2.35	2.30	2.25	2.35	2.25	2.35	2.40	2.55	2.75	F	1
2.50	2.55	2.55	2.60	2.55	2.40 _H	2.15	F	2.55 _H	2.90	3.10	3.10	2
2.35	2.45	2.50	2.50	2.65 _R	2.60 _R	2.40	2.65 _R	3.00	3.10	3.20	3.25	3
2.30	2.40	2.40	2.40	2.40	2.40	2.35 _R	2.40	2.65 _R	2.75 _F	2.90	3.00	4
2.40	2.40	2.30	2.40	2.40	2.35	2.10	F	2.55	F	F	3.00	5
2.35	2.35	2.30	2.30	2.30	2.20	2.20	2.35	2.55	2.70	2.80	3.00	6
2.30	2.35	2.30	2.20	2.20	2.20	2.20	2.25	2.40	2.65	2.80	2.95	7
2.30	2.25	2.35	2.30	2.30	2.25	2.05	2.25 _F	F	F	F	3.05 _F	8
2.35	2.40	2.45	2.40	2.30	2.10	2.10	2.15 _F	F	F	F	F	9
2.30	2.30	2.30	2.40	2.30	2.30	2.10	2.15 _F	2.35	2.45	2.55	2.80	10
2.35	2.35	2.30	2.20 _s	2.20	2.45 _s	2.50 _s	2.55	2.65	2.90 _s	2.95 _s	3.00	11
2.35	2.30	2.25	2.30	2.35	2.30	2.05	2.15 _F	F	F	2.60	3.10	12
C	C	2.35	2.15	2.00 _{IR}	2.50	2.90	2.15	2.40	2.70	2.70	2.70	13
C	2.20	2.35	2.35	2.40	2.30	2.40	2.30	2.40 _F	2.65	2.65 _F	3.10	14
2.40	2.30	2.45	2.40	2.45	2.30	2.15	2.15	F	F	F	F	15
2.50	2.45	2.60	2.70	R	2.75 _R	2.65	2.70	2.90	3.10	3.15	3.15	16
2.40	2.35	2.40	2.50	2.60	2.60	2.35	2.40	2.55	F	F	2.90	17
2.40	2.35	2.45	2.45	2.50	2.30	2.10	2.15	2.40	F	F	3.00 _F	18
2.50	2.55	2.55	2.60	2.80 _R	2.65	2.40 _R	2.60	2.65	2.85	3.10	3.25	19
2.40	2.45	2.55	2.65	2.70	2.60	2.55	2.65	2.95	3.25	3.25	3.20	20
2.65	2.65	2.75	2.70	2.70	2.55	2.40	2.65	3.10	3.10	3.00	2.95	21
2.65	2.60	2.60	2.65	2.60 _R	R	2.70 _R	2.70	2.80	2.90	2.95	3.10	22
2.60	2.60	2.60	2.60	2.60	2.65 _R	2.40	2.55	2.85	3.05	3.10	3.15	23
2.55	2.45	2.60	2.65	2.80 _R	2.80	2.70	2.90	3.10	3.35	3.30	3.30	24
2.90	C	C	C	2.55 _R	2.50	2.50	2.55	2.70	2.95	3.05	3.20	25
2.80	2.80	2.80	2.70	2.55	2.15 _H	2.30	2.35	2.40	2.80	3.10	3.10	26
2.60	2.65	2.75	2.80	2.85	2.80	2.70	2.85	2.90	3.10	3.10	3.05	27
2.70	2.65	2.60	2.50	2.40	2.30	2.50	2.60 _F	2.60	2.75	2.85	2.90	28
2.50	2.55	2.35	2.50	2.60	2.60	2.60	2.70	2.80	2.90	3.05	3.10	29
2.55	2.50	2.50	2.45	2.50	2.55	2.45	2.50 _R	2.50	2.60	2.75	2.95 _F	30
2.50	2.45	2.45	2.45	2.50	2.45	2.35	2.45	2.65	2.85	2.95	3.05	Mean
2.45	2.40	2.45	2.45	2.50	2.40	2.40	2.50	2.60	2.90	3.00	3.05	Median
28	28	29	29	29	29	30	27	26	23	24	27	Count

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

Characteristic : fo F₂
Unit : Mc
Month : December 1960

TABLE 56
Ionospheric Data
75°E Mean Time

Latitude 10°2' N
Longitude 77°5' E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	7.4	6.8	6.9	6.1	3.3	E	4.6	8.0	9.6 _H	10.3	12.0	11.8
2	F	F	F	F	F	8.0	5.1	8.6	9.8	10.6	10.8	11.2
3	8.4	U7.7 _y	7.0	6.2	5.0	3.7	5.8	9.9	11.6	11.7	12.2	12.0
4	8.6	9.3	7.8	6.5	5.3	3.6	5.6	9.1	11.0	11.4	11.6	11.6
5	8.2	7.8	7.4	7.1	6.1	4.2	5.6	9.2	10.8	10.6	10.1	10.6
6	9.0	9.4	8.2	6.6	C	C	C	C	C	C	C	C
7	10.0	10.3	10.1	9.8	9.3	7.1	6.6	9.5	10.9	10.6	10.9	11.0
8	8.0	7.2	6.5	5.9	5.7	4.8	5.9	9.4	11.7	12.2	11.6	11.6
9	F	8.4	F	U7.8 _F	7.6	6.0	6.0	9.4	11.6	12.5	12.8	12.3
10	9.8	9.0	C	8.2	6.4	4.6	5.6	9.3	11.0	11.8	11.8	11.1
11	8.0	7.7	7.4	6.6	6.2	4.7	5.5	9.1	11.4	U11.5 _R	10.7	9.6
12	8.3	7.2	6.0	5.4	5.4	5.7	6.6	9.8	11.8	11.9	11.5	10.9
13	8.8	8.5	7.9	7.7	6.6	5.2	6.0	9.5	11.1	11.2	11.4	10.8
14	8.3	7.6	U6.0 _S	4.5	3.3	E	4.5	8.3	10.2	10.2	10.5	10.6
15	U7.0 _S	6.6	6.3	5.6	5.2	4.8	6.0	9.1	11.0	12.0	12.2	11.7
16	C	C	C	C	C	C	C	C	10.8	11.6	12.6	12.8
17	U7.2 _S	5.7	4.8	4.5	3.4	U3.5 _R	5.4	8.3	10.0	10.6	10.9	10.8
18	7.7	6.8	6.2	6.0	5.8	5.8	6.2	8.1	9.4	9.5	9.8	10.0
19	8.9	8.4	7.4	6.8	6.4	6.3	7.4	9.4	9.8	9.8	9.6	10.2
20	6.9	6.6	5.4	4.0	3.3	3.4	4.7	8.0	9.8	9.8	9.8	10.6
21	3.8	3.4	U3.5 _R	3.6	3.8 _V	3.7	F	F	8.8 _H	8.7	8.6	8.7
22	8.0	6.8	4.3	3.5	3.8	3.3	4.3	7.4	9.3	9.7	8.6	8.8
23	U7.2 _S	6.6	5.4	4.3	2.8	E	4.0	7.7	C	C	7.9	8.3
24	6.2	5.7	5.3	4.7	3.3	2.2	3.8	7.3	8.5 _H	7.0	7.0	7.5
25	6.0	6.4	U5.8 _S	4.5	3.6	2.8	4.2	7.3	8.4	7.8	7.5	7.5
26	5.3	5.1	5.4	4.0	3.3	U2.8 _R	3.8	7.0	8.4	U8.8 _R	7.4	7.4
27	5.6	5.4	5.4	4.8	4.7	4.6	4.6	7.7	8.7	7.7	7.9	7.7
28	6.8	U6.1 _S	4.9	4.1	U3.5 _R	U3.0 _R	4.4	8.0	9.5	9.5	8.7	9.0
29	7.5	6.4	5.8	5.8	5.6	4.0	4.3	7.8	10.2	11.0	10.4	9.8
30	10.0	9.8	8.4	4.9	2.9	E	3.9	8.0	9.4	9.0	8.9	9.2
31	6.1	5.6	6.1	6.0	5.9	U4.0 _R	4.1	7.8	9.5	9.9	8.7	8.5
Count	28	29	27	29	28	29	28	28	29	29	30	30
Median	7.8	6.8	6.1	5.8	5.1	4.0	5.2	8.3	10.0	10.6	10.4	10.6
Mean	7.6	7.2	6.4	5.7	4.9	4.5	5.2	8.5	10.1	10.3	10.1	10.1

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

Characteristic : fo F2
Unit : Mc
Month : December 1960

TABLE 56
Ionospheric Data
75°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.2	11.8	12.2	12.8	12.8	R	11.8s	10.6	10.8F	F	10.6F	F	1
11.8	12.4	12.4	12.0	11.0	9.8	8.4	8.0	8.7F	9.0	8.2	8.0	2
11.9	12.2	12.4	12.3	11.2	11.3	10.8	9.9	9.4	8.7	10.2F	F	3
11.8	12.4	12.6	12.2	11.7	10.6	9.8	9.4	8.4	8.1	8.2	8.2F	4
10.8	11.0	10.9	10.6	10.0	9.5	9.3	9.2	9.0	8.7	7.8F	8.2	5
11.8	12.8	13.5	14.0	13.6	R	12.4	S	11.9s	12.2	11.1	10.6	6
11.7	12.2	12.1	11.8	11.4	10.3	8.8	8.9	8.9	8.8	8.8	8.4	7
12.4	12.7	12.7	12.2	11.8	11.6	11.6	12.0	11.7	10.6	9.8F	9.0	8
12.1	12.5	12.4	11.8	11.0	10.0	9.4	9.2	9.1	8.5	8.5	9.0	9
10.8	10.8	11.0	11.1	11.2	10.6	9.9	9.0	7.8	7.2	10.1s	7.2	10
9.2	9.4	9.7	9.8	9.8	9.8	9.6	9.0	8.4	8.4	8.2	8.7	11
10.7	10.5	10.0	9.9	9.7	9.7	9.7	9.0	7.7	7.6	7.9	7.8	12
10.8	11.1	11.6	11.6	11.7	11.2	9.5	8.3	8.3	8.8	8.7	8.1	13
10.8	10.8	11.2	11.2	11.3	11.0R	10.1	9.6	9.0	8.0	7.8	7.4	14
11.1	11.1	10.5	10.0	9.8	C	C	C	C	C	C	C	15
13.8	14.0	14.0R	R	13.8	10.1	9.9	10.4	9.5	10.4	11.2	9.8	16
11.0	11.1	11.1	10.9	10.9	10.5	10.5	10.5	11.2	11.0	9.7	8.6	17
10.9	11.4	11.6	11.6	10.8	10.7	9.4	8.6	8.5	8.6	8.6	8.8	18
10.8	12.1	12.8	12.7	11.8s	11.6	11.5	10.0	9.4	9.0	8.2	7.5	19
11.0	12.2	12.8	12.5	12.4	11.6	C	10.8	9.7	7.6	5.4	4.1	20
9.2	9.9	10.6	10.8	10.9	11.0	10.6	9.8	10.5s	9.2	9.6	8.6	21
9.8	11.2	11.6	11.4	11.7	11.5	10.8	10.8	10.7R	9.2	8.2	7.5	22
8.8	9.8	10.7	11.5	11.8	11.5	10.8	10.8	10.2R	10.1	8.1	7.4	23
C	9.0	9.3	9.8	10.4	10.4	9.4	8.2	7.8	8.5	7.7	6.5	24
8.1	8.7	10.0	11.0	11.2	11.3	10.6	9.2	9.3	6.7	7.3	5.6	25
8.2	9.0	9.7	10.7	11.2	11.0	10.6s	9.1	9.0	8.1	8.0	6.1	26
7.6	8.5	9.5	10.4	10.0	9.6	10.5s	9.9	9.8	9.0	10.2s	6.6	27
9.6	10.5	11.1	11.1	10.8	10.0	9.0	8.6	7.9	7.5	7.9	8.5	28
9.1	9.4	9.8	10.5	10.7	10.0	10.0	10.0	10.0F	10.0	8.9	8.5	29
9.5	9.8	10.3	10.7	10.8	10.7	10.5	10.7	10.4	9.0	8.2	10.1s	30
9.0	9.6	9.9	11.0	11.4	11.0	10.7	10.2R	9.5	9.0	8.3	8.3	31
30	31	31	30	30	28	29	29	30	29	30	28	Count
10.8	11.1	11.1	11.2	11.2	10.6	9.9	9.4	9.2	8.7	8.2	8.2	Median
10.5	11.0	11.3	11.3	11.2	10.6	10.1	9.6	9.3	8.7	8.3	7.8	Mean

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

Characteristic : fo F₂
Unit : Mc
Month : December 1960

TABLE 56—*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	7.3	6.7	6.8	4.6	R	F	6.8	9.2	8.8	10.8	11.9	12.4
2	F	F	F	F	7.8 _F	F	7.3	9.1	10.4	10.9	11.3	11.7
3	7.7	u7.6 _w	7.0	5.7	4.6	3.7 _H	7.3	11.0	12.0	11.9	C	11.7
4	8.9	8.6	7.1	6.1	4.4	3.6	7.5	10.3	11.3	11.5	11.4	12.0
5	8.0	7.5	7.2	6.7	5.0	3.5	7.7	10.3	10.9	10.2	10.4	10.7
6	9.2	8.8	7.6	6.4	C	C	C	C	C	C	C	C
7	10.3	9.8	10.0	9.6	8.7	5.3	8.4	10.4	10.8	10.7	10.9	11.3
8	7.7	7.2	6.1	5.7	5.4	4.0	7.9	10.7	12.1	12.0	11.6	11.7
9	u8.9 _w	F	F	8.0	7.0	4.6	7.8	10.4	12.4	12.6	12.4	11.9
10	9.4	8.8	C	7.5	5.6	3.6	7.6	10.0	11.4	11.6	11.6	10.8
11	7.8	7.4	6.8	6.5	5.7	3.7	7.5	10.4	11.7	11.4	10.1	9.4
12	7.6	6.8	5.6	5.2	5.6	5.5	8.4	10.8	12.1	11.9	11.3	10.8
13	8.8	8.2	7.6	7.0	6.1	4.2	8.0	10.8	11.4	11.4	11.2	10.7
14	7.8	j7.3 _s	5.0	3.8	2.8	E	6.6	9.5	10.6	10.2	10.4	10.6
15	7.2	6.4	5.8	5.4	5.0	4.8	7.6	10.0	11.4	11.8	12.0	11.4
16	C	C	C	C	C	C	C	C	11.3	12.3	12.8	13.3
17	6.4	5.3	4.7	4.2	3.3	4.0	7.2	9.3	10.4	10.8	10.8	10.8
18	u7.1 _s	6.4	j6.0 _s	6.0	5.9	5.6	7.1 _H	8.6	9.4	9.7	9.8	10.5
19	8.5	8.0	u7.0 _s	6.5	6.4	6.3	8.6	9.8	9.9	9.9	9.9	10.2
20	6.6	6.3	4.8	3.6	3.3	3.3	6.4	9.2	10.1	9.7	10.2	10.8
21	3.5	3.4	3.6	3.4	3.6	F	F	8.6	8.9	8.6	8.5	9.0
22	7.6	5.7	3.7	3.7	3.6	R	6.1	8.5	9.8	9.4 _H	8.4	9.3
23	7.0	6.2	4.9	3.6	R	E	u6.1 _s	8.5	C	C	8.1	8.5
24	5.8	5.6	5.0	4.0	2.8	E	5.8	8.2	7.7	6.8	7.2	C
25	6.3	6.4	5.2	4.0	u3.2 _R	2.7	6.1	7.9	8.4	7.6	7.4	8.0
26	5.3	5.5	4.4	u3.6 _R	u3.0 _R	R	5.7	8.1	9.1 _H	7.7	7.3	7.5
27	5.6	u5.9 _s	5.0	4.6	4.8	3.7	6.5	8.3	8.5 _H	7.8	8.1	7.5
28	6.6	5.6	4.6	4.0	3.1	3.0	6.3	9.0	9.6	9.1	8.7	9.3
29	6.7	6.0	5.9	5.4	4.9	u3.1 _R	6.1	9.5	10.7	10.9	R	9.6
30	u9.9 _F	9.5	6.4	u3.6 _R	E	E	6.3	8.8	9.1	9.0	8.9	9.2
31	5.6	5.8	6.0	6.1	5.7	2.9	6.3	8.7	9.8	9.3	8.6	8.8
Count	29	28	27	29	27	24	28	29	29	29	28	29
Median	7.6	6.6	5.9	5.4	4.9	3.6	7.2	9.3	10.4	10.7	10.3	10.7
Mean	7.4	6.9	5.9	5.3	4.9	4.0	7.1	9.4	10.3	10.3	10.0	10.3

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

Characteristic : fo F₂

Unit : Mc

Month : December 1960

TABLE 56—contd.

Ionospheric Data

75°E Mean Time

Latitude : 10.2° N.

Longitude : 77.5° E.

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.9	12.1	12.4	13.2	R	R	u11.0c	u9.6s	10.0F	F	F	F	1
12.0	12.6	12.0	11.6	10.0	8.8	7.8	8.2	8.6	8.5	7.9	8.3	2
12.2	12.4	12.1	11.6	11.4	11.2	10.1	9.6	8.6	8.5	F	8.7	3
12.0	12.6	12.6	11.7	11.0	10.8	9.4	8.8	8.0	8.0	8.0	8.3	4
10.8	11.1	10.6	10.3	9.8	9.5	9.0	9.2	8.8	8.4	7.6	8.6	5
12.6	13.2	13.6	13.8	13.4	12.8	S	12.6	11.6	11.7	11.0	10.3	6
12.2	12.4	12.1	11.7	10.8	9.4	8.5	9.1	9.0	8.7	8.8	8.0	7
12.9	12.9	12.7	12.4	11.7	11.5	11.8	11.8	10.7	10.4	9.7F	9.4	8
12.3	12.8	12.0	11.4	10.8	10.0	9.2	9.6	9.6	8.6	8.8	9.3	9
10.7	11.1	10.9	11.0	10.8	10.5	9.6	8.5	u7.2s	u7.2s	7.2	7.5	10
9.5	9.4	9.7	9.7	9.8	9.8	9.2	8.7	8.5	8.3	8.6	8.5	11
10.6	10.4	10.0	9.8	9.7	9.6	9.4	8.0	7.5	7.7	8.0	8.4	12
10.8	11.5	11.6	11.8	11.5	u10.3R	8.7	8.2	8.7	8.8	8.4	8.3	13
10.9	10.8	11.1	11.3	u11.2R	10.7	9.5	9.2	8.4	7.8	7.6	7.0	14
11.2	10.8	10.1	10.0	C	C	C	C	C	C	C	C	15
14.1	14.3	R	j12.4HR	10.1	9.9	10.0	10.2	u10.2R	11.0	10.8	8.2	16
11.2	11.1	11.0	11.0	10.8	10.2	10.5	10.9	11.2	10.6	9.2	7.9	17
11.2	11.6	11.6	11.5	10.7	9.9	8.8	8.6	8.5	8.6	8.8	8.9	18
11.5	12.3	10.8	12.2	11.6	11.8	10.7	u9.6s	9.3	8.4	7.7	7.2	19
11.6	12.3	12.4	12.3	11.6	C	C	10.4	8.6	6.2	4.4	4.0	20
9.6	10.2	10.8	11.1	10.8	10.9	10.3	u9.6s	9.3	9.5	9.0	8.3	21
10.5	11.3	11.3	11.6	11.7	u11.2R	10.0	9.4	9.1	7.8	7.0	u7.1s	22
9.5	10.1	11.0	11.5	11.6	11.2	10.2	9.9	9.4	u8.1R	6.6	6.4	23
8.7	9.2	9.5	10.0	10.4	10.1	8.9	7.8	8.1	8.2	u7.0s	6.2	24
8.4	9.4	10.6	10.8	11.0	11.3	9.8	9.0	8.8	7.0	6.4	5.4	25
8.6	9.5	10.2	11.1	11.1	10.3	9.3	8.8	8.7	8.3	6.6	5.6	26
7.9	9.1	10.0	10.1	9.7	9.7	9.5	10.3	9.3	8.1	7.1	6.7	27
10.1	10.8	11.2	10.8	10.3	u9.5s	8.8	7.8	7.5	7.6	u8.5c	8.3	28
9.0	9.7	10.2	10.8	10.3	10.2	9.8	F	9.1	8.5	8.5	9.7	29
9.7	9.8	10.7	10.9	10.8	10.6	u10.2R	10.6	9.8	8.6	7.9	6.3	30
9.4	9.7	10.3	11.3	11.5	10.9	10.7	9.8	9.0	8.7	8.1	8.4	31
31	31	30	31	29	28	28	29	30	29	28	29	Count
10.8	11.1	11.0	11.3	10.8	10.3	9.6	9.4	8.9	8.4	8.0	8.3	Median
10.8	11.2	11.2	11.3	10.9	10.4	9.7	9.4	9.0	8.5	8.0	7.8	Mean

Sweep 1.0 Mc. to 25.0 in 27 seconds.

Characteristic 'fo F₁
 Unit : Mc
 Month : December 1960

TABLE 57
 Ionospheric Data
 75°E Mean Time

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

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

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

Characteristic : fo F1
 Unit : Mc
 Month December 1960

TABLE 57
 Ionospheric Data
 75°E Mean Time

Latitude 10°2'N.
 Longitude 77°5'E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
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
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 _H	L	L	L	L	L							21
L	L	L _H	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 _H	L	L	L	L	L _H							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 : fo F₁
 Unit : Mc
 Month : December 1960

TABLE 57—*contd.*
 Ionospheric Data
 75°E Mean Time

Latitude 10° 2' N
 Longitude 77° 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								..	L	L	L	L
3								L	L	L	L	L
4							..	L	L	L	L	L
5							L	L	L	L
6								C	C	C	C	C
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	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
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	u5.0L	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
Count							1	..
Median												
Mean												

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

Characteristic : fo F₁
 Unit Mc
 Month December 1960

TABLE 57—*contd.*
 Ionospheric Data
 75° E Mean Time

Latitude 10° 2
 Longitude 77° 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
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	..								5
L	L	L	L	L								6
L	L	L	L	..								7
L	L	L	L	..								8
L	L	L	L	..								9
L	L	L	L	..								10
L	L	L	L	..								11
L	L	L	L	..								12
L	L	L	L	..								13
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	..								18
L	L	L	L	L								19
L	L	L	L	L								20
L _H	L	L	L	L								21
L	L	L	L	L								22
U4.8L	U1.8L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L _H	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	..								29
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 : fo E
Unit : Mc
Month : December 1960

TABLE 58
Ionospheric Data
75°E Mean Time

Latitude 10·2° N
Longitude 77·5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									A	A	B	B
2									A	B	A	A
3									A	A	A	A
4									..	B	A	A
5									A	A	A	A
6								C	C	C	C	C
7									A	B	A	A
8									A	B	A	A
9									B	A	A	A
10									3·0	A	A	A
11								2·9	A	A	A	A
12								2·3	A	A	A	A
13									A	A	A	A
14									B	B	B	B
15									-	B	A	B
16								C	A	B	A	A
17									R	B	A	A
18									R	B	A	A
19									A	B	A	A
20									A	B	A	A
21									A	B	A	A
22									R	R	A	A
23								R	C	C	A	A
24									R	R	A	A
25								u2·4x	F	R	A	A
26									..	A	A	A
27									A	A	A	A
28								A	A	A	A	A
29									u4·0x	3·4	A	A
30									A	B	B	A
31									A	A	A	A
Count								3	2	1	..	.
Median							
Mean							

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

Characteristic : fo E
 Unit : Mc
 Month : December 1960

TABLE 58
 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
B	R	3.6	B	B								1
A	A	A	A									2
A	A	A	B									3
B	A	A	B									4
A	A	A	B									5
A	B	B	B									6
A	A	A	A									7
A	A	A	B	A	A							8
A	A	A	B	A		A						9
A	A	A	A	A	A							10
A	A	A	A	A								11
A	A	A	A	A								12
A	A	A	B	R								13
B	A	A	B									14
B	A	A	B									15
B	B	A	B	R								16
A	A	A	R	u2.8R								17
A	B	A	B									18
B	R	B	R									19
A	B	B	B	A								20
A	A	A	u3.1R									21
u3.7R	B	R	R									22
A	A	3.3	B	B								23
C	A	A	A	A					A			24
A	A	R	B	u2.9R								25
A	A	A	B	u2.8R								26
A	A	A	A	A								27
A	B	A	A	A								28
A	A	A	A	A								29
B	B	B	B	A								30
A	A	A	A	u3.1R								31
1	.	2	1	4	..							Count
..	..	..	..	.	..							Median
..	..	..	..	..	.							Mean

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

Characteristic : fo E
 Unit Mc
 Month : December 1960

TABLE 58—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								.	A	B	B	B	
2								.	B	A	A	A	
3								A	A	A	C	A	
4								.	A	A	A	B	
5								.	A	A	A	A	
6								..	C	C	C	C	
7									A	A	A	A	
8								A	B	A	A	A	
9								2.8	B	A	A	A	
10								2.8	u3 2R	A	A	A	
11								A	A	A	A	A	
12								2.6	A	A	A	A	
13								A	A	A	A	A	
14								B	B	B	B	B	
15									B	A	A	A	
16								..	A	p3.4R	A	A	
17								R	A	A	A	A	
18								..	R	A	A	A	
19								..	A	A	A	R	
20								2.7	A	u3 4A	A	A	
21								u2 8R	R	A	A	A	
22								R	A	A	A	A	
23								R	C	C	A	A	
24								R	R	A	A	C	
25								F	R	A	A	A	
26								..	A	A	A	A	
27								A	A	A	A	A	
28								A	A	A	A	A	
29								u3.6R	A	A	A	A	
30								A	A	B	A	A	
31								..	A	A	A	A	
Count									6	1	2
Median									2.8
Mean									2.9

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

Characteristic : fo E
 Unit : Mc
 Month : December 1960

TABLE 58—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
B	3 6	B	B	.								1
A	A	A	..	.								2
A	A	B	B	.								3
A	A	B	..	..								4
A	A	B	..	..								5
R	B	B	..	.								6
A	A	A	A	..								7
A	A	B	B	A								8
A	A	B	B	.								9
A	A	A	A	..						..		10
A	A	A	A	..						..		11
A	A	A	A	..								12
A	A	B	B	..								13
B	A	B	B	..								14
B	A	B	A.	..								15
A	A	B	R	R								16
A	A	R	R	..								17
A	A	B	B	..								18
R	B	B	R	..								19
A	B	B	R	A								20
A	A	u3.3R	B	..								21
R	R	B	..	..								22
A	B	B	B	A								23
A	A	A	A	A								24
A	F	R	u3.0R	R								25
A	A	A	B	u2.5R								26
A	A	A	A	A								27
A	B	u3.8R	A	R								28
A	A	A	A	..								29
B	A	B	3.2	..								30
A	B	A	B	3.0								31
..	1	2	2	2								Count
..	..	..	..	..								Median
..	..	..	..	..								Mean

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

Characteristic : fo Es
Unit : Mc
Month : December 1960

TABLE 59
Ionospheric Data
75°E Mean Time

Latitude : 10°2'N
Longitude : 77°5'E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									6.9	6.4	G	G
2									6.2	7.0	9.2	13.4
3								3.4	7.6	7.8	9.6	9.8
4									—	G	8.4	8.8
5								2.6	5.5	7.6	9.3	9.8
6					G	G	G	G	G	G	G	G
7									6.6	8.0	9.4	10.0
8									7.0	7.0	8.8	9.4
9									G	7.4	9.2	8.6
10	2.5	—	C						G	6.6	9.6	9.4
11	4.0	—	3.7					G	6.7	7.8	9.5	9.1
12								G	7.6	8.8	9.2	9.6
13									6.4	7.8	8.8	8.8
14									3.4	G	8.8	8.6
15									—	G	8.1	8.6
16	G	G	C	C	G	C	C	C	6.8	G	11.6	12.0
17									6.0	7.1	9.7	9.1
18									G	6.6	9.2	9.0
19									7.0	7.4	9.2	8.6
20	3.2	4.4	—						6.8	8.0	10.0	9.1
21								4.0	7.0	7.0	9.0	9.0
22								..	G	8.0	9.4	10.0
23								..	G	C	9.2	9.0
24	7.0	—	3.6					..	G	6.9	8.4	9.2
25	5.6	—						..	G	7.4	7.4	9.8
26								..	..	7.1	9.1	10.1
27								..	..	7.4	8.7	9.1
28								..	..	7.3	8.4	9.3
29								..	..	G	7.7	10.4
30								..	..	7.8	B	9.8
31										7.3	8.7	9.8
Count	5	1	2	.	.	.	.	7	26	28	30	30
Median	4.0							G	6.8	7.4	9.2	9.1
Mean	4.5								6.7	7.2	9.1	9.7

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

Characteristic : fo Es
 Unit : Mc
 Month : December 1960

TABLE 59
 Ionospheric Data
 75°E Mean Time

Latitude : 10.2°N
 Longitude : 77.5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
G	G	5.2	G	G								1
11.0	8.6	9.0	6.6									2
10.2	9.0	9.0	G									3
9.4	8.2	8.8	G									4
9.6	8.5	8.2	6.2									5
10.2	G	G	G									6
10.0	10.0	9.8	8.0									7
9.6	10.6	8.7	6.7	6.4	5.8							8
10.4	8.4	9.4	7.6	6.6								9
8.7	8.6	9.4	7.4	6.8							4.8	10
8.6	9.6	9.5	6.6	7.0R								11
9.8	9.4	8.6	6.7	6.0								12
8.1	7.8	7.8	G	G								13
9.0	9.4	8.4	G									14
9.0	9.0	9.0	6.0	..	C	C	G	C	C	C	C	15
G	G	8.2	G	G								16
10.6	10.3	9.0	6.6	G								17
5.8	G	8.0	G									18
G	G	G	6.0									19
11.4	G	G	G	6.6		C						20
9.6	9.0	8.8	G						2.7	..	..	21
G	G	G	G									22
8.0	8.0	G	G	G	3.9							23
C	9.6	9.0	6.5	8.0	7.0							24
10.0	9.4	7.8	G	G								25
10.2	9.7	6.7	G	G								26
9.8	9.4	9.8	7.3	7.4								27
8.4	6.9	8.1	4.7	3.9					3.7	4.1	..	28
9.6	8.8	9.6	7.6	5.7								29
9.5	8.6	G	G	3.7								30
10.4	9.7	6.6	G	G					..	4.3	..	31
30	31	31	31	19	3				2	2	1	Count
9.6	8.6	8.4	G	3.9	..	..	..	..	..	..	..	Median
9.5	9.0	8.5	6.7	6.2	..	..	..	..	..	..	..	Mean

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

Characteristic : fo Es
Unit : Mc
Month : December 1960

TABLE 59—Contd.
Ionospheric Data
75°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								.	6.8	G	G	G
2								..	G	8.6	10.6	11.7
3								6.8	7.8	9.8	C	9.5
4								..	7.2	8.2	8.8	8.8
5								3.6	6.8	8.3	9.4	9.6
6					C	C	C	C	C	C	C	C
7								..	7.2	9.6	9.8	8.8
8								6.5	6.8	9.2	8.4	8.6
9								8.4	B	9.8	8.7	8.4
10	1.9	..	C					G	G	9.6	9.0	9.0
11	3.2	..	..					6.4	7.3	9.2	9.4	8.8
12								G	8.2	9.6	9.4	10.2
13								6.8	6.8	8.8	8.0	8.6
14								2.8	G	8.1	8.8	8.6
15								—	G	8.0	8.7	9.2
16	C	C	C	C	C	C	C	C	9.4	7.2	12.3	11.0
17								G	6.8	9.7	8.6	10.7
18								.	5.6	7.8	9.0	9.0
19								.	7.0	9.0	9.2	G
20								6.0	7.8	9.2	10.0	8.8
21							8.0	G	G	9.0	9.0	9.0
22								G	6.6	9.0	9.2	9.2
23								G	C	C	9.0	9.6
24								6.8	6.6	7.8	8.5	C
25	4.0							G	8.3	8.8	9.6	10.2
26								.	8.1	7.7	9.6	9.6
27								6.8	8.4	9.6	9.7	9.2
28								6.6	C	10.0	10.4	10.2
29								G	4.3	9.8	10.0	10.8
30								C	7.6	8.6	10.6	9.6
31								..	7.8	8.8	9.9	10.0
Count	3	.	.	..	.	..	1	19	28	29	29	29
Median		.	.	.	..	.		3.6	6.8	9.0	9.2	9.2
Mean	.	.	..	.		..	..	6.1	7.2	8.9	9.4	9.5

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

Characteristic : fo Es

TABLE 59—Contd

Latitude : 10°2'N

Unit . Mc

Ionospheric Data

Longitude : 77°5'E

Month December 1960

75°E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
G	5.1	G	G									1
10.8	8.6	6.6	6.8									2
9.2	9.0	G	G									3
8.3	8.6	6.4	.									4
8.6	6.8	6.0	.									5
4.0	G	G	.									6
10.0	9.8	8.8	7.6									7
10.4	8.8	7.6	6.8	6.2	2.8	..	..	..	..	4.1	.	8
9.8	9.8	7.8	7.6							.	.	9
8.6	9.6	7.6	7.7							.	6.6	10
9.2	10.0	8.2	6.4							.	.	11
9.8	9.6	6.8	6.6							.	.	12
8.0	7.0	G	G									13
9.0	8.4	7.0	G									14
9.0	8.4	7.0	6.2	C	C	C	C	C	C	C	C	15
8.4	8.0	7.0	G	G					..	..	..	16
10.0	9.0	6.7	6.8	.					7.3	..	..	17
9.0	8.0	G	6.2	.					..	..	..	18
G	G	G	6.0						..	6.0	3.5	19
8.8	G	G	G	4.8	C	C						20
9.2	9.2	6.8	G	.								21
G	G	G	..	..								22
8.4	5.6	G	G	6.2	..	3.8	..	.	..	..	3.6	23
9.4	9.0	6.6	10.6	8.0	6.8	..	..	.	..	..	-2.7	24
10.1	9.8	6.0	G	G					..	..		25
9.8	8.3	8.6	G	G								26
9.6	9.6	7.1	8.0	3.2								27
8.5	8.3	G	3.8	G					7.8a	..	..	28
9.6	9.2	8.1	7.0	..					..	..	..	29
8.4	7.8	G	G	.					..	..	4.0	30
10.4	B	6.9	G	G					2.7	.	..	31
31	31	31	27	10	2	1	..		3	2	5	Count
9.0	8.5	6.6	6.0	3.2	.	.		..	.	.	3.6	Median
9.1	8.5	7.2	6.9	5.7		..	..	..	.	..	4.1	Mean

Sweep 1.0 Mc to 25.0 Mc . in 27 seconds.

Characteristic of Es
Unit : Mc
Month : December 1960

TABLE 60
Ionospheric Data
75°E Mean Time

Latitude : 10.2°N
Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								.	3.3	4.0	G	G
2								..	3.4		3.9	5.6
3								2.8	3.4	3.9	4.2	4.2
4								..	.	G	4.1	4.2
5								..	3.5	4.0	4.2	4.3
6					C	C	C	C	C	C	C	C
7								..	3.6	..	4.2	4.2
8								..	3.4		4.0	4.2
9								.	G	4.0	4.0	4.2
10	2.0	..	C					.	G	3.8	4.0	4.0
11	2.8	..	2.8					G	3.2	3.8	3.9	4.2
12								G	3.6	3.8	4.0	4.0
13								..	3.5	.	4.0	4.0
14								.	..	G	.	..
15								..	..	G	3.9	4.2
16	C	C	C	C	C	C	C	C	3.4	..	4.7	5.4
17								..	..		3.8	4.0
18								..	G	..	3.7	3.8
19								..	..	.	3.8	4.0
20	2.6	2.5	..					2.7	..	..	4.0	4.0
21								..	3.4	..	3.8	4.0
22								.	G	3.8	3.8	4.0
23								..	C	C	3.8	4.0
24	..	..	2.7					G	G	..	3.6	3.8
25	2.3	..	..					..	..	..	3.7	3.9
26								..	..	3.6	3.7	3.8
27								..	3.2	3.6	3.8	3.8
28								2.5	3.2	3.6	3.8	3.8
29								..	G	3.9	3.9	4.1
30								..	3.3	..	4.3	4.1
31								..	3.3	3.7	3.9	4.3
Count	4	1	2	..	.	..	.	6	21	16	29	99
Median	..	.	.	.	.	.	.	2.5	3.3	3.8	3.9	4.0
Mean	..	..	.	..	..	.	.	..	3.4	3.8	3.9	4.1

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

Characteristic . fb Es
 Unit : Mc
 Month : December 1960

TABLE 60
 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
G	G	4.4	G	G								1
6.8	4.0	3.8	3.6									2
4.4	4.1	3.8	G									3
4.4	4.2	4.0	G									4
4.4	4.0	4.1									3.4	5
5.1	G	G	G									6
4.1	4.3	4.0	3.7									7
4.3	4.2	4.0	..	3.0	3.3							8
4.2	4.1	3.8	..	3.1								9
4.0	4.1	4.2	3.6	3.2								10
4.1	4.1	3.8	3.5	3.1								11
4.2	3.9	4.0	3.8	3.1								12
4.0	4.1	4.0	G	G								13
..	4.0	3.7	G	G								14
.	3.9	3.8			C	C	C	C	C	C	C	15
G	G	3.7	G	G								16
4.0	3.9	3.6	G	G								17
4.0	G	3.6	G	..								18
G	G	G	3.4	..								19
4.2	G	G	G	3.6		C						20
4.1	3.8	3.6	G	..								21
G	G	G	G	..								22
4.0	3.8	G	G	G								23
C	3.7	3.6	.	3.1	4.0							24
3.9	3.8	3.6	G	G								25
3.8	3.7	3.6	G	G								26
3.8	3.7	3.7	3.5	3.0								27
4.0	4.8	3.7	3.5	3.0					2.5	2.9		28
4.1	4.0	3.7	3.5	3.0								29
..	4.3	G	G	3.1								30
4.1	4.0	3.9	G	G								31
26	31	31	25	19	2	.	.		1	1	1	Count
4.1	3.9	3.7	G	3.0					..	..	.	Median
4.3	4.0	3.8	3.6	3.1	..	..	.	..	..	..	..	Mean

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

Characteristic : fb Es
 Unit : Mc.
 Month : December 1960

TABLE 60—Contd.
 Ionospheric Data
 75° E Mean Time

Latitude 10.2° N
 Longitude 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								..	3.7	G	G	G
2								..	G	4.1	3.9	6.8
3								3.3	3.6	3.8	C	4.2
4								..	3.7	4.2	4.0	
5								3.2	3.6	4.0	4.2	4.5
6									C	C	C	C
7								..	3.6	4.0	4.3	4.2
8								3.3	..	3.8	4.0	4.3
9								3.2	..	3.8	4.2	4.2
10								G	G	3.9	4.0	4.0
11	3.0							3.1	3.6	3.9	3.9	4.1
12								G	3.5	3.8	4.1	4.1
13								3.0	..	3.8	4.0	4.0
14								..	G	3.8		..
15								..	G	3.8	4.0	4.2
16								..	4.3	4.0	5.1	4.2
17								G	..	3.6	4.0	3.9
18								..	..	3.8	3.8	4.0
19								..	..	3.7	4.0	G
20								3.0	..	3.6	3.9	4.0
21							3.8	G	G	3.8	4.0	3.9
22								G	3.4	3.6	4.0	3.8
23								G	C	C	3.8	4.0
24								..	..	3.5	3.7	C
25	2.1							G	..	3.6	3.7	3.8
26								..	3.4	3.8	3.7	3.8
27								2.9	3.5	3.7	4.0	3.9
28								2.9	3.3	3.7	3.9	4.1
29								G	3.6	3.7	4.1	3.9
30								2.9	3.5	..	4.83	4.3
31								..	3.5	3.9	3.9	4.3
Count	2			..		..	1	18	20	28	28	27
Median	..			..				2.9	3.5	3.8	4.0	4.0
Mean	..							3.1	3.6	3.8	4.0	4.2

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

Characteristic : fb Es
Unit : Mc
Month : December 1960

TABLE 60—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
G	3·8	G	G	..								1
4·1	4·0	3·8	G	..								2
4·0	3·8	G	G	..								3
4·1	4·1	..	..	..								4
4·4	4·1	..	..	..								5
C	G	G	..	..								6
4·2	4·2	3·7	3·5	..								7
4·3	4·2	..	..	3·3								8
4·2	4·1	..	..	..								9
4·0	4·0	3·9	3·5	..						3·0		10
4·2	4·0	3·8	3·5	..								11
4·0	3·9	4·0	3·5	..								12
4·0	4·0	G	G	..								13
..	4·2	..	G	..								14
..	3·8	..	..	..								15
4·0	3·8	..	G	G								16
4·0	3·8	..	..	..								17
4·2	3·8	G	..	..								18
G	G	G	3·2	..						3·2	2·7	19
4·2	G	G	G	3·2								20
4·0	3·8	4·0	G	..								21
G	G	G	..	..								22
4·0	..	G	G	3·0	..	2·6						23
3·7	3·5	..	4·8	4·6							2·2	24
3·8	3·6	3·5	G	G								25
3·8	3·7	4·3	G	G								26
3·9	3·6	3·6	3·3	2·8								27
4·3	4·2	G	3·4	G					3·6			28
3·9	3·8	3·6	3·3	..								29
..	4·2	G	..	..							2·6	30
4·0	..	3·7	G	G								31
2·7	29	22	20	10	..	1	..	..	1	1	4	Count
4·0	3·8	3·5	G	2·8	..	..	..	..	..	..	..	Median
4·1	3·9	3·8	3·6	3·4	..	..	..	..	..	..	..	Mean

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

Characteristic : fmin
Unit : Mc
Month : December 1960

TABLE 61
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	2.6	2.6	2.3	2.5	2.3	E	2.4	2.9	2.7	3.2	3.9	4.0
2	2.6	2.7	3.0	3.2	2.6	2.6	2.5	3.0	2.8	4.1	2.6	3.4
3	2.5	1.9	2.2	2.4	2.4	2.1	2.2	2.3	2.6	3.1	2.9	2.8
4	2.4	1.7	1.9	2.0	1.8	1.9	2.6	2.8	3.3	4.0	3.2	3.5
5	2.2	2.2	1.7	1.8	1.9	1.9	2.4	2.2	2.9	3.4	3.2	3.2
6	2.4	2.2	2.2	1.9	C	C	C	C	C	C	C	C
7	2.3	2.5	2.4	2.6	2.5	2.5	2.5	2.9	3.6	4.1	3.2	3.5
8	1.9	2.1	1.7	2.4	1.9	1.7	2.3	3.2	3.4	4.0	3.0	3.9
9	2.2	1.5	1.9	1.8	2.0	2.2	2.5	2.8	3.6	3.4	3.0	3.2
10	1.5	2.0	C	1.8	1.8	2.1	2.3	3.0	2.7	3.0	2.5	3.1
11	2.6	2.2	2.4	2.8	2.5	2.3	2.6	2.6	2.8	2.7	2.8	3.0
12	2.4	1.8	2.9	2.2	2.1	1.8	2.2	2.6	2.7	3.0	2.7	3.1
13	2.0	2.2	2.2	1.6	1.9	1.9	2.4	2.7	2.8	3.1	2.9	3.2
14	2.3	2.2	2.2	2.2	1.8	E	2.3	2.6	2.7	2.8	3.8	4.2
15	2.1	2.2	2.0	2.2	2.4	1.9	2.4	2.8	3.3	3.8	2.8	3.4
16	C	C	C	C	C	C	C	C	2.9	3.6	3.0	3.3
17	1.7	2.1	2.2	2.0	2.0	2.0	2.3	2.8	3.2	3.7	2.9	3.2
18	2.4	2.2	2.2	2.3	1.9	1.6	2.3	2.8	2.8	3.8	2.6	3.0
19	2.4	2.0	2.0	2.2	2.2	2.6	2.5	2.8	3.2	3.6	3.2	3.0
20	2.4	2.0	2.0	1.7	1.6	1.9	2.2	2.6	3.2	3.8	3.0	3.0
21	2.2	1.7	1.9	2.2	1.8	1.9	2.6	2.2	2.6	3.8	3.0	3.2
22	2.4	2.1	2.2	1.8	2.0	1.8	1.9	2.6	2.8	3.0	3.0	2.9
23	1.7	1.7	1.8	2.9	1.9	E	2.2	2.4	C	C	3.2	3.2
24	2.4	2.4	2.2	2.4	2.2	2.0	2.0	2.6	2.7	3.1	3.0	3.0
25	1.6	1.9	2.3	2.0	1.8	1.7	2.2	2.0	2.4	3.0	2.6	3.0
26	1.9	2.0	2.2	2.1	2.3	2.0	2.4	2.6	3.1	2.7	2.7	2.7
27	2.0	2.4	1.8	1.8	1.7	2.0	2.4	2.6	2.6	2.8	2.7	2.9
28	1.7	2.3	1.8	1.6	1.8	1.9	2.0	1.8	2.5	3.0	2.7	2.9
29	2.7	2.1	1.8	2.2	2.1	2.0	2.0	2.8	2.8	3.1	3.1	3.0
30	2.1	2.0	2.5	2.1	1.8	E	2.4	2.5	2.6	4.3	4.2	3.1
31	2.4	2.0	2.0	2.0	2.1	2.2	2.3	2.5	2.5	3.1	2.7	3.3
Count	30	30	29	30	29	29	29	29	29	29	30	30
Median	2.3	2.1	2.2	2.1	2.0	1.9	2.3	2.6	2.8	3.2	3.0	3.2
Mean	2.2	2.1	2.1	2.1	2.0	2.1	2.3	2.6	2.9	3.4	3.0	3.2

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

Characteristic fmin
Unit : Mc
Month December 1960

TABLE 6I
Ionospheric Data
75°E Mean Time

Latitude 10°2'N.
Longitude 77°5'E.

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.1	3.2	2.9	3.8	3.4	2.8	2.9	2.4	3.2	2.8	2.1	3.0	1
2.9	2.9	2.8	3.6	3.0	2.5	1.6	1.8	2.2	1.8	2.2	2.3	2
3.0	2.8	2.8	3.6	3.0	2.7	2.3	1.8	1.9	2.3	2.3	2.2	3
4.0	3.4	3.2	3.8	3.2	2.8	2.6	2.7	3.3	3.2	2.5	2.4	4
3.0	3.0	3.2	3.6	3.0	2.9	2.3	2.4	2.3	2.5	3.1	2.0	5
3.0	4.5	4.0	3.9	3.1	2.9	2.9	2.7	2.5	2.4	1.8	2.2	6
3.5	3.3	3.1	3.7	3.2	2.8	2.7	2.3	2.1	1.7	2.1	2.2	7
3.8	3.2	3.0	3.7	2.6	3.0	2.4	2.2	2.7	2.0	1.8	2.2	8
3.3	4.0	3.3	3.6	2.6	2.8	2.2	2.1	2.2	2.1	2.0	1.9	9
3.5	3.0	3.1	3.6	3.4	3.0	2.4	2.3	2.3	2.1	2.2	2.3	10
3.2	3.2	3.0	3.0	2.6	2.6	2.3	3.0	2.0	2.5	2.5	2.8	11
3.1	2.8	2.7	3.8	3.1	2.5	2.2	2.0	2.1	2.1	2.1	2.0	12
2.8	2.7	3.0	3.6	2.7	2.6	2.0	2.0	1.8	2.2	2.2	2.1	13
4.0	3.2	3.0	3.4	3.0	2.6	2.3	2.4	2.1	2.3	2.3	2.2	14
4.0	3.0	2.8	3.6	3.1	C	C	C	C	C	C	C	15
4.3	4.0	2.5	3.6	2.6	2.5	2.2	2.3	2.1	2.3	2.2	1.8	16
3.2	3.0	2.8	2.8	2.4	2.5	2.0	2.6	2.6	2.8	2.5	2.3	17
3.0	4.0	2.5	3.4	2.9	2.6	1.7	2.1	3.0	2.4	2.4	1.9	18
4.2	3.4	2.8	2.6	2.8	2.4	1.7	2.0	1.8	2.8	2.2	1.9	19
3.0	3.8	4.0	3.7	2.6	2.4	C	2.3	2.2	2.4	2.2	2.1	20
3.2	2.8	2.6	2.8	3.0	2.3	1.6	2.2	1.8	2.0	2.4	2.4	21
2.8	3.8	2.8	2.4	2.9	2.4	1.8	2.0	2.2	1.8	2.3	2.2	22
2.7	3.0	3.0	3.6	3.0	2.7	2.2	2.5	2.4	2.8	2.4	2.4	23
C	2.6	2.4	2.4	1.9	1.9	1.8	2.4	2.1	2.1	2.4	1.8	24
3.1	3.0	2.6	3.6	2.4	2.3	2.2	2.4	2.4	2.2	2.3	2.2	25
2.7	2.9	2.7	3.5	2.4	2.4	1.8	2.0	2.1	2.1	2.5	1.9	26
3.1	2.8	2.5	2.8	2.3	2.4	1.6	2.0	1.8	2.1	1.6	1.8	27
3.1	4.1	3.0	3.0	2.5	2.6	2.2	2.3	2.5	2.0	2.9	2.8	28
3.1	3.1	2.6	2.8	2.3	2.5	2.1	2.2	2.3	2.8	1.9	2.2	29
4.5	4.0	4.0	3.8	2.4	2.7	2.3	2.0	2.5	2.2	2.5	2.2	30
3.3	3.1	3.1	3.7	2.8	2.7	1.9	2.1	2.0	2.4	2.3	2.1	31
30	31	31	31	31	30	29	30	30	30	30	30	Count
3.2	3.1	3.0	3.6	2.8	2.6	2.2	2.2	2.2	2.2	2.3	2.2	Median
3.4	3.3	3.0	3.4	2.8	2.6	2.1	2.2	2.3	2.3	2.3	2.2	Mean

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

Characteristic · fmin
Unit · Mc
Month December 1960

TABLE 6I—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	2.2	2.4	2.4	2.8	2.6	2.8	2.8	2.9	2.9	4.0	4.0	4.3
2	2.8	2.8	3.2	2.5	2.6	2.9	2.8	3.1	3.8	2.9	3.0	3.0
3	1.7	2.1	1.8	1.8	1.9	2.2	2.6	2.4	3.0	2.8	C	2.8
4	1.8	1.8	2.2	2.1	2.4	2.2	2.8	3.2	3.0	3.2	3.4	4.0
5	1.8	2.4	1.8	1.8	2.2	1.8	2.5	2.7	3.0	3.0	3.4	3.1
6	2.3	2.2	1.9	1.7	C	C	C	C	C	C	C	C
7	2.2	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.6	3.2	3.6	3.6
8	1.9	1.8	2.2	2.2	1.6	2.2	2.6	3.1	3.3	3.0	3.3	3.8
9	2.0	1.8	2.1	1.8	2.2	1.9	2.6	2.5	4.4	3.0	3.4	3.4
10	1.8	2.4	C	2.0	2.3	2.1	2.6	2.4	2.8	2.7	2.9	3.0
11	3.0	2.5	2.7	2.4	2.3	2.2	2.6	2.4	2.7	2.6	2.9	3.0
12	2.4	2.4	2.3	1.9	2.0	2.5	2.8	2.4	2.9	2.5	2.7	3.0
13	2.0	1.6	2.2	2.1	2.3	1.9	2.6	2.6	3.5	3.0	3.0	3.1
14	2.4	2.2	2.2	2.5	1.8	E	3.0	2.4	2.5	3.2	4.0	4.2
15	2.1	1.9	2.4	2.0	2.2	2.1	2.8	3.2	4.0	3.2	2.8	3.0
16	C	C	C	C	C	C	C	C	2.7	3.0	3.0	3.0
17	2.1	1.7	1.8	2.0	2.1	1.7	2.4	2.9	3.5	3.0	3.2	3.2
18	2.4	2.1	2.2	2.1	2.3	2.3	2.8	2.9	2.9	2.8	2.9	3.2
19	2.2	2.0	2.0	2.3	2.1	2.2	2.6	3.1	3.4	3.0	3.2	3.4
20	1.8	1.7	1.9	1.7	1.9	1.7	2.8	2.4	3.4	2.8	3.0	3.0
21	2.2	2.2	2.0	1.7	2.1	2.0	2.8	2.8	3.0	3.0	3.2	3.0
22	2.0	1.9	2.0	1.8	1.5	2.0	2.4	2.2	3.0	2.4	2.8	2.6
23	1.8	1.8	1.8	2.0	2.0	F	2.6	2.2	C	C	3.4	3.0
24	2.2	2.6	2.3	2.2	1.9	E	2.5	2.7	2.8	3.0	3.2	C
25	1.7	1.9	1.9	2.1	2.2	1.7	2.3	2.3	2.7	2.5	2.6	2.8
26	2.0	1.8	2.0	1.9	1.9	2.1	2.7	2.8	2.6	2.9	2.6	2.8
27	2.3	1.8	1.7	2.1	2.0	2.2	2.4	2.2	2.7	2.6	2.8	3.1
28	1.7	1.8	1.6	1.8	1.8	2.0	2.3	2.2	2.6	2.5	2.7	3.1
29	2.2	2.2	2.1	2.1	2.0	1.8	2.9	2.5	3.0	2.8	3.1	3.0
30	2.0	1.8	2.2	2.2	E	E	2.8	2.4	2.8	4.5	3.2	3.2
31	2.3	2.0	2.6	2.1	2.0	2.1	2.6	3.0	2.7	3.0	2.9	3.1
Count	30	30	29	30	29	29	29	29	29	29	29	29
Median	2.1	2.0	2.1	2.1	2.1	2.1	2.6	2.6	3.0	3.0	3.0	3.1
Mean	2.1	2.1	2.1	2.1	2.1	2.1	2.6	2.7	3.1	3.0	3.1	3.2

Sweep 1.0 Mc, to 25.0 Mc. in 27 seconds

Characteristic : fmin
Unit Mc
Month : December 1960

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
3.9	3.4	3.8	3.4	3.2	2.8	3.0	2.8	3.6	2.4	2.2	2.4	1
3.0	2.8	3.8	3.0	3.0	2.3	1.6	2.4	2.6	1.8	1.8	2.2	2
3.0	2.8	4.0	3.4	2.9	2.5	2.7	2.6	2.2	2.4	2.2	2.0	3
3.5	3.2	4.1	3.5	3.2	2.6	2.8	3.0	3.0	2.8	2.6	2.6	4
3.0	3.4	4.1	3.4	2.9	2.6	2.5	2.0	2.6	2.7	2.0	2.8	5
3.2	4.1	4.2	3.6	3.0	2.7	2.8	2.6	2.2	2.5	2.3	2.5	6
3.4	3.0	3.2	3.5	3.0	2.2	1.9	2.4	2.2	2.0	2.2	2.0	7
3.6	3.4	3.8	3.6	2.5	2.4	2.5	2.5	2.5	2.2	2.2	2.2	8
3.1	3.6	u4.2c	3.5	3.2	2.4	1.8	2.3	2.4	2.2	2.0	2.0	9
3.8	3.3	3.9	3.5	3.3	2.1	2.5	2.3	2.3	2.2	2.1	2.2	10
3.0	3.1	3.3	3.5	2.8	2.5	2.4	2.7	2.0	2.8	2.5	2.2	11
2.4	2.9	u4.0c	u3.5c	3.0	2.3	2.2	2.1	2.1	2.6	2.1	1.9	12
2.9	2.9	3.7	3.2	3.2	2.4	2.6	2.2	2.2	1.9	1.9	1.8	13
4.0	3.2	4.0	3.4	3.0	2.3	2.5	2.6	2.4	2.6	2.3	2.4	14
4.0	2.8	3.8	3.3	C	C	C	C	C	C	C	C	15
2.7	2.7	3.8	2.8	2.4	2.1	2.0	2.6	2.3	2.2	2.2	2.4	16
3.4	2.7	3.0	2.7	2.6	2.1	2.4	2.8	2.3	2.7	2.5	2.6	17
3.2	2.8	3.6	3.2	2.8	2.2	2.1	2.7	2.6	2.2	2.4	2.4	18
3.6	4.0	3.6	2.7	2.8	2.0	1.9	2.0	2.2	2.4	2.2	2.1	19
2.8	3.8	2.9	2.8	2.5	C	C	2.6	2.2	2.2	2.5	2.1	20
3.2	2.8	2.8	4.2	2.8	2.0	2.3	2.4	2.0	2.4	2.0	2.2	21
2.8	3.0	3.8	2.2	2.6	2.0	1.9	1.8	2.2	2.2	2.0	1.8	22
2.9	4.0	3.8	3.4	2.8	2.8	2.0	2.4	2.8	3.0	2.2	2.2	23
2.8	2.5	2.7	2.2	2.0	2.2	1.8	2.2	2.1	2.1	1.9	2.4	24
3.0	2.7	2.2	2.7	2.4	2.2	2.6	2.4	2.5	1.8	2.2	2.0	25
2.8	2.7	2.5	3.3	2.1	2.0	1.6	2.0	2.0	2.5	2.3	2.3	26
2.8	2.7	3.0	2.5	2.3	2.3	1.8	2.1	2.1	1.7	1.7	2.2	27
3.3	3.8	3.2	2.7	2.7	2.5	2.1	2.4	2.2	2.3	u3.1c	2.6	28
2.8	2.7	3.1	2.5	2.7	2.2	2.2	2.2	2.0	2.0	1.8	2.2	29
4.4	3.1	3.6	2.8	2.8	2.4	2.2	2.0	2.2	2.3	2.4	1.8	30
3.1	4.1	3.1	3.7	2.6	2.4	1.8	2.1	2.3	2.1	1.9	2.7	31
31	31	31	31	30	29	29	30	30	30	30	30	Count
3.1	3.0	3.8	3.3	2.8	2.3	2.2	2.4	2.2	2.2	2.2	2.2	Median
3.2	3.2	3.5	3.2	2.8	2.3	2.2	2.4	2.3	2.3	2.2	2.2	Mean

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

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Characteristic : h' F₂
 Unit : Km
 Month : December 1960

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	L	255	275	270
2							.	.	L	L	L	L
3							.	.	L	L	275	L
4							.	L	L	L	L	L
5							.	.	L	L	L	L
6							C	C	C	C	C	C
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
11							..	L	L	L	L	L
12							..	L	L	L	L	L
13							.	.	L	L	295	L
14							.	.	L	L	L	L
15							.	.	L	L	L	L
16							C	C	L	L	L	L
17							..	.	L	L	L	L
18							.	.	L	L	L	L
19							.	.	L	L	L	L
20							.	L	L	L	L	L
21							..	L	L	L	L	L
22							.	.	L	L	L	L
23							C	C	L	u29(L)
24							..	.	L	L	L	L
25							..	L	L	L	L	L
26							L	L	L	L
27							.	L	L	L	L	L
28							.	L	L	L	L	L
29							..	.	L	L	L	L
30							..	L	L	L	L	L
31							.	.	L	L	L	L
Count	1	3	2
Median						
Mean .												

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

Characteristic : h' F2
 Unit : Km
 Month : December 1960

TABLE 62
 Ionospheric Data
 75°E Mean Time

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

	12	13	14	15	16	17	18	19	20	21	22	23	Date
320	L	L	L	L	L	L							1
L	L	L	L	L	L	L							2
L	L	L	L	L	L	L							3
L	L	L	L	L	L	L							4
L	L	L	L	L	L	.							5
L	L	L	L	L	L	L							6
L	L	L	L	L	L	L							7
L	L	L	L	L	L	L							8
L	L	L	L	L	L	L							9
L	L	L	L	L	L	.							10
L	L	L	L	L	L	L							11
L	L	L	L	L	L	L							12
L	L	L	L	L	L	L							13
L	L	L	L	L	L	L							14
L	L	L	L	L	L	L							15
L	L	L	L	L	L	L							16
L	L	L	L	L	L	L							17
u ^{300L}	L	L	L	L	L	L							18
L	L	L	L	L	L	L							19
L	L	L	L	L	L	L							20
L _{II}	L	L	L	L	L	L							21
L	L	L	L	L	L	L							22
L	L	L	L	L	L	L							23
C	L	L	L	L	L	L							24
L	L	L	L	L	L	L							25
L	L	L	L	L	L	L							26
L	L	L	L	L	L	L							27
L	L	L	L	L	L	L							28
L	L	L	L	L	L	L							29
L	L	L	L	L	L	L							30
L	L	L	L	L	L	L							31
2	..	..	..	..	..	..							Count
.	..	..	.	.	.	..							Median
.	..		.	.	..								Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic . h'F2
Unit Km
Month . December 1960

TABLE 62—Contd.
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude : 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L ²⁷⁵	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								.	L	L	L	L
6								C	C	C	C	C
7								L	L	L	L	L
8							L	L	L	L	L	L
9							L	L	L	L	L	L
10							L	L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								..	L	L	L	L
17								L	L	L	L	L
18								.	L	L	L	L
19								L	L	L	L ²⁹⁰	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	C	C	L	L
24								L	L	L	L	C
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								..	L	L	L	L
Count										1	1	..
Median							
Mean										.		.

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

Characteristic . h'F2
Unit : Km
Month . December 1960

TABLE 62—Contd.
Ionospheric Data
75°E Mean Time

Latitude : 10'
Longitude : 77.5

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
L	L	L	L	..								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	..								10
L	L	L	L	..								11
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	..								18
L	L	L	L	L								19
L	L	L	L	L								20
L _H	L	L	L	L								21
L	L	L	L	L								22
u290L	u270L	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	..								29
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 : December 1960

TABLE 63
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	235	230	230	200	240	E	270	230	210	200	195	195 _H
2	375	410	400	300	250	265	270	235	220	210	200	A
3	220	210	200	210	210	225	260	230	210	200	200	190
4	210	205	205	215	210	220	260	225	210	200	195	190
5	220	225	225	220	200	205	260	230	215	205	210	200
6	230	220	220	230	C	C	C	C	C	C	C	C
7	255	300	300	260	230	200	215	235	215	210	205	200
8	225	235	220	220	220	205	235	230	210	200	190	200
9	u270 _F	u270 _F	u270 _F	u245 _F	200	200	240	225	205	200	195	195
10	235	235	C	235	205	205	245	230	210	200	195	190
11	255	240	250	240	220	220	240	230	210	200	190	200 _H
12	220	210	220	240	250	235	240	230	215	210	200	195
13	205	220	230	230	220	205	240	230	220	200	200	190
14	220	220	210	230	220	E	260	225	215	200	195	200
15	210	215	225	240	260	240	240	225	215	205	200	200
16	C	C	C	C	C	C	C	C	220	220	A	A
17	210	230	225	210	220	245	250	230	210	200	200	195
18	240	255	245	260	260	260	265	230	210	200	200	190
19	240	240	240	240	260	265	265	230	220	200	200	200
20	260	250	205	210	240	240	240	230	210	200	190	200
21	250	240	240	240	280	285	240	225	210	200	200	200
22	230	220	215	240	280	260	245	230	210	205	200	200
23	225	220	225	205	220	F	240	220	C	C	180	205
24	u265 _G	260	245	225	240	L	250	220	200	185 _H	175 _H	180 _H
25	270	240	220	240	230	235	255	230	225 _H	195 _H	175 _H	180 _H
26	260	270	230	230	240	230	245	230	210	195	180	180
27	270	275	245	260	280	225	230	220	200	205	200	190
28	250	240	240	240	250	270	265	240	220	200	200	190
29	225	240	220	220	225	220	240	230	210	u210 _G	200	200
30	270	250	200	215	220	E	270	225	200	u230 _B	220	200
31	230	245 _{BW}	255	280	235	210	240	230	220	200	200	200
Count	30	30	29	30	29	28	29	29	29	29	29	28
Median	235	240	225	230	230	235	245	230	210	200	200	200
Mean	245	245	235	235	235	230	250	230	210	205	195	195

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

Characteristic h'F
Unit Km
Month : December 1960

TABLE 63
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
200	205	235	210	230	250	300	390	380	375	380	400	1
A	195	200	200	220	250	320	340	280	240	255	240	2
195 _{ir}	185 _{ir}	195	210	220	210	280	330	335	340	270	250	3
180	195	200	200	220	245	300	360	405	335	260	240	4
200	195 _{ir}	200	210	220	250	295	320	340	310	300	275	5
245	200	200	220	225	245	300	315	305	260	240	240	6
200	200	200	220	225	255	310	330	260	230	230	235	7
200	200	200	215	225	250	280	300	300	285	280 _f	280 _f	8
200 _{ir}	195	200	215	220	250	290	315	300	260	250	235	9
185	190	220	220	235	250	290	340	350	330	290 _f	265	10
190	190	195	210	220	245	280	320	300	260	240	235	11
200	180	200 _{ir}	220	225	245	275	330	340	290	255	235	12
185	200	20 _y	200	225	250	285	325	280	235	240	230	13
200	190	185 _{ir}	200	220	245	275	305	295	240	235	220	14
200	190 _{ir}	195 _{ir}	220	235	C	C	C	C	C	C	C	15
210	200	205	220 _{ir}	250	250	260	225	210	235	220	215	16
195	190	190	215	220	240	250	260	240	225	220	235	17
200	200	195	210	220	240	280	300	270	240	280	260	18
200	220	200	200	210	240	240	260	230	220	220	250	19
205	195	215	205	230	235	C	220	200	220	220	225	20
210	200	200	200	220	240	240	240	240	270	240	220	21
200	200	190	200	215	240	250	230	220	200	220	230	22
200	180	190	200	215	230	245	240	210	220	220	250	23
C	190 _{ir}	180 _{ir}	200	220 _A	A	260	300	280	215	220	230	24
190 _{ir}	200	190 _{ir}	220	215	235	235	240	225	205	200	240	25
180	180	200	200	220	255	260	240	230	210	220	240	26
180	180	200	215	230	240 _{ir}	265	270	220	220	235	250	27
180	220 _A	195	215	225	240	280	340 _f	285 _f	260	240	240	28
195	190	195	210	220	240	265	320	280	270	300	280	29
200	215	200	205	220	245	260	280	250 _f	220	230	220	30
190	195	215	225	230	260	270	305	295	280	270	240	31
29	31	31	31	31	29	29	30	30	30	30	30	Count
200	195	200	210	220	245	275	305	280	240	240	240	Median
195	195	200	210	225	245	275	295	275	255	250	245	Mean

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

Characteristic · h'F
Unit · Km
Month · December 1960

TABLE 63—*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	220	225	210	200	300	F	240	220	205	200	200	200
2	395	415	340	265	250	300	250	225	215	200	195	A
3	215	205	205	200	210	255	235	220	200	200	200	C
4	210	205	220	215	220	250	240	215	200	200	185	185
5	220	230	230	205	200	220	235	220	210	200	205	200
6	230	220	230	220	C	C	C	C	C	C	C	C
7	270	300	275	250	200	215	245	225	210	200	200	200
8	220	215	220	220	215	225	235	220	215	195	175	200
9	u265F	u270F	u270F	215	200	205	235	220	u220B	185	200	195H
10	245	255	C	220	210	220	240	220	205	200	195	185
11	250	240	245	230	220	220	235	220	210	190	200	180
12	220	215	225	250	245	230	240	220	210	200	200	200
13	220	225	240	240	200	220	240	225	205	200	200	190
14	220	210	220	240	230	E	240	220	205	200	200	200
15	210	210	240	260	255	220	235	220	220	200	200	200
16	C	C	C	C	C	C	C	C	u245A	205	A	220
17	230	220	215	210	255	235	240	220	200	200	195	195
18	245	250	250	260	255	260	240	220	205	200	195	190
19	235	240	250	250	270	240	240	220	200	200	200	200
20	250	225	215	220	240	220	240	220	210	190	185	200
21	240	240	250	250	300	270	240	220	200	200	210	200
22	230	210	230	250	270	230	235	220	200	200	200	200
23	220	220	220	220	240	E	230	210	C	C	180	200
24	260	255	230	225	240	E	240	215	200	180H	175H	C
25	250	230	220	230	240	u240C	240	225	205H	180H	175H	175H
26	270	260	220	240	250	260	230	215	200	185	180	180
27	270	260	260	280	250	210	240	215	210	210	200	185
28	225	240	230	235	270	270	255	220	205	200	200	200
29	235	240	220	220	215	225	240	220	210	200	200	185
30	280	220	200	225	E	E	240	220	195	u230B	205	195
31	240	240	285	275	205	225	240	225	205	200	200	195
Count	30	30	29	30	29	28	29	29	29	29	28	28
Median	235	230	230	230	240	230	240	220	205	200	200	200
Mean	245	240	235	235	240	235	240	220	210	200	195	195

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

Characteristic . h'F

TABLE 63—Contd

Latitude : 10 2° N

Unit : Km

Ionospheric Data

Longitude . 77.5° E

Month . December 1960

75 E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
205	200	200	215	240	265	380	380	365	360	400	395	1
200	205	200	205	235	270	365	305	260	240	250	220	2
180	180	205	210	230	255	320	345	330	305	u280F	210	3
195	200	205	200	235	265	345	400	400	300	250	225	4
200	200	210	220	235	270	320	330	335	300	275	240	5
200	200	225	220	235	260	305	305	280	245	240	240	6
200	200	200	220	240	270	320	300F	245	230	230	225	7
200	205	210	225	235	265	300	305	300	275F	u280F	u295F	8
190	210	220	220	240	260	320	320	280F	260	250	225	9
180	195	220	220	240	260	325	350	345	300F	275	270	10
185II	200	200	215	235	260	320	320	280	255	235	225	11
195	195	215	220	240	260	315	340	315	270	240	220	12
200	200	200	205	240	260	320	310	255	230	230	225	13
200	200	u220B	220	240	255	300	305	270	240	230	220	14
200	200	200	225	C	C	C	C	C	C	C	C	15
200	200	220	220	240	260	240	215	230	220	220	220	16
200	185	200	220	230	240	260	255	220	220	230	240	17
200	200	200	210	230	260	300	285	250	260	280	260	18
200	210	200	205	230	245	260	250	220	220	240	260	19
200	200	200	200	235	C	C	220	200	220	230	230	20
200	200	220	210	230	240	245	240	260	255	220	230	21
200	200	210	210	225	245	250	215	210	215	235	230	22
200	200	200	210	230	240	250	220	215	220	230	260	23
180II	185	180II	A	A	250	280	300	240	210	220	260	24
180II	190II	200	200	220	240	250	250	205	210	200	250	25
175	180	u245A	200	230	260	255	225	215	220	220	260	26
180	180	200	220	240	260	275	240	215	220	240	270	27
u205A	205	200	215	235	260	305	F	u280F	u260C	u240C	225	28
180	190	205	210	230	260	300	320	280	u280C	280	270	29
200	200	220	200	230	250	270	280	230	220	250	240	30
190	u220B	220	u230B	240	265	280	300	290	280	260	240	31
31	31	31	30	29	29	29	29	30	30	30	30	Count
200	200	205	215	235	260	300	300	260	240	240	240	Median
195	200	210	215	235	255	295	290	265	250	250	245	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : h'E
 Unit : Km
 Month : December 1960

TABLE 64
 Ionospheric Data
 75°E Mean Time

Latitude : 10 2⁵ N
 Longitude . 77 5° E

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

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

Characteristic : h'E

TABLE 64

Latitude 10° 2' N

Unit : Km

Ionospheric Data

Longitude 77° 5' E

Month December 1960

75°E Mean Time

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

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

Characteristic : h'E
 Unit : Km
 Month December 1960

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

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

Characteristic h'E
Unit - Km
Month December 1960

TABLE 64—cont'd
Ionospheric Data
-5'E Mean Time

Latitude 10° 2' N
Longitude 77° 5' E

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

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

Characteristic · h'Es
Unit : Km
Month : December 1960

TABLE 65
Ionospheric Data
75°E Mean Time

Latitude 10·2° N
Longitude 77·5° E

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

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

Characteristic : h'Es
 Unit : Km
 Month : December 1960

TABLE 65
 Ionospheric Data
 75°E Mean Time

Latitude: 10.2°N
 Longitude: 77.5°E

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

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

Characteristic : h'Es
 Unit : Km
 Month : December 1960

TABLE 65—*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									100	G	G	G
2									G	100	100	100
3								100	100	100	C	100
4									100	100	100	100
5								100	100	100	100	100
6								..	C	C	C	C
7								..	100	100	100	100
8								100	100	100	100	100
9								100	B	100	100	100
10	100							G	G	100	100	100
11	100							100	100	100	100	100
12								G	100	100	100	100
13								100	100	100	100	100
14								100	G	100	100	100
15								..	G	100	100	100
16								..	100	100	100	100
17								G	100	100	100	100
18								..	100	100	100	100
19								..	100	100	100	G
20								100	100	100	100	100
21							100	..G	G	100	100	100
22								..G	100	100	100	100
23								G	C	C	100	100
24								100	100	100	100	C
25	105							G	100	100	100	100
26								..	100	100	100	100
27								100	100	100	100	100
28								100	100	100	100	100
29								G	110	100	100	100
30								100	100	100	100	100
31								..	100	100	100	100
Count	3	.	.	..	.	..	1	12	23	28	28	27
Median	..	..	.	..	.	..	..	100	100	100	100	100
Mean	..	..	..	..	..	..	..	100	100	100	100	100

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

Characteristic . h'Es
Unit Km
Month : December 1960

TABLE 65—*contd.*
Ionospheric Data
75°E Mean Time

Latitude: 10°2'N
Longitude: 77°5'E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
G	105	G	G									1
100	100	100	100									2
100	100	G	G									3
100	100	100	100									4
100	100	100	.									5
100	G	G	.									6
100	100	100	100									7
100	100	100	100	100	100					120	..	8
100	100	100	100							..	..	9
100	100	100	100							..	100	10
100	100	100	100									11
100	100	100	100									12
100	100	G	G									13
100	100	100	G									14
100	100	100	100									15
100	100	100	G	G								16
100	100	100	100						110	..	..	17
100	100	G	100						..	..	..	18
G	G	G	100						..	100	100	19
100	G	G	G	100					..	..	..	20
100	100	100	G									21
G	G	G	.									22
100	100	G	G	100		110	..	..	..	..	105	23
100	100	100	100	100	120	..	..	..	..	..	105	24
100	100	100	G	G	..							25
100	100	100	G	G								26
100	100	100	100	100								27
100	115	G	100	G		..	..	..	110	..	..	28
100	100	100	100	..	..	..	..	..	..	..	..	29
100	100	G	G	..	..	..	..	..	..	..	100	30
100	B	100	G	G	..	..	..	..	110	..	..	31
28	26	20	15	5	2	1	..	.	3	2	5	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 : (M 3000) F₂
 Unit : —
 Month : December 1960

TABLE 66
 Ionospheric Data
 75°E Mean Time

Latitude: 10 2°N
 Longitude: 77 5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	3 05	3 05	3 10	3 35	3 40	E	2 90	3 00	2 35 ^H	2 95	2 90	2 85
2	F	F	F	F	F	3 00	2 95	2 70	2 80	2 70	2 65	2 60
3	2 90	∩3 25 ^F	3 25	3 40	3 50	3 45	3 05	3 05	2 80	2 65	2 60	2 55
4	2 95	3 15	3 25	3 20	3 40	3 45	2 95	2 95	2 85	2 65	2 50	2 55
5	3 00	3 10	3 10	3 25	3 45	3 55	3 10	2 95	2 70	2 50	2 45	2 50
6	2 90	3 10	3 10	3 20	C	C	C	C	C	C	C	C
7	3 00	2 80	2 80	2 95	3 20	3 45	3 10	2 95	2 65	2 40	2 40	2 45
8	3 10	3 00	3 20	3 30	3 25	3 45	3 30	3 25	3 00	2 50	2 30	2 50
9	F	2 60	F	∩3 00 ^F	3 25	3 45	3 20	3 30	3 00	2 90	2 55	2 40
10	2 90	3 00	C	3 20	3 45	3 40	3 20	3 25	3 05	2 80	2 45	2 30
11	2 95	3 10	3 10	3 10	3 25	3 45	3 20	3 25	3 00	∩2 60 ^R	2 40	2 50
12	3 15	3 25	3 45	3 25	3 10	3 15	3 20	3 15	2 80	2 70	2 45	2 35
13	3 05	3 10	3 05	3 10	3 30	3 30	3 05	3 25	3 00	2 70	2 45	2 40
14	3 30	3 40	∩3 50 ^S	3 50	3 45	E	3 10	3 10	2 85	2 70	2 70	2 50
15	∩3 45 ^S	3 40	3 30	3 10	3 05	3 20	3 30	3 40	3 30	3 10	2 70	2 45
16	C	C	C	C	C	C	C	C	2 80	2 70	2 75	2 60
17	∩3 30 ^S	3 30	3 40	3 45	3 45	∩3 35 ^R	3 25	3 10	3 00	2 90	2 60	2 60
18	3 30	3 20	3 20	3 15	3 30	3 20	3 05	2 90	2 80	2 70	2 80	2 55
19	3 00	3 10	3 05	3 10	2 90	3 10	3 20	3 10	27 0	2 65	2 65	2 60
20	3 25	3 30	3 55	3 50	3 30	3 30	3 20	3 30	2 95	2 55	2 65	2 75
21	3 30	3 30	∩3 40 ^R	3 40	3 00 ^V	3 10 ^F	F	F	2 09 ^H	2 60	2 70	2 55
22	3 30	3 40	3 50	3 30	3 10	3 20	3 35	3 40	3 00	2 65	2 65	2 65
23	∩3 30 ^S	3 30	3 40	3 45	3 45	E	3 30	3 30	C	C	2 80	2 65
24	3 20	3 20	3 40	3 50	3 50	3 70	3 30	3 35	2 50 ^H	2 70	2 70	2 75
25	3 20	3 35	∩3 40 ^S	3 35	3 40	3 50	3 20	3 35	2 70	2 65	2 70	2 70
26	3 15	3 10	3 30	3 25	3 30	∩3 20 ^R	3 10	3 30	3 05	∩2 25 ^R	2 55	2 55
27	3 20	3 10	3 15	3 05	3 05	3 30	3 05	3 10	2 70	2 65	2 55	2 50
28	3 10	∩3 30 ^S	3 20	3 20	∩3 15 ^R	∩3 15 ^R	3 05	3 00	2 80	2 60	2 55	2 55
29	3 25	3 20	3 35	3 40	3 40	3 40	3 30	3 35	3 15	2 80	2 30	2 35
30	2 85	2 95	3 50	3 45	3 40	E	2 90	3 10	2 70	2 50	2 55	2 25
31	3 40	3 20	3 15	3 00	3 35	∩3 50 ^R	3 00	3 40	3 05	2 40	2 35	2 40
Count	28	29	27	29	28	25	28	28	29	29	30	30
Median	3 15	3 20	3 25	3 25	3 30	3 35	3 15	3 20	2 85	2 65	2 60	2 55
Mean	3 15	3 15	2 25	3 25	3 30	3 35	3 15	3 15	2 85	2 65	2 60	2 55

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

Characteristic . (M 3000) F₂
 Unit : —
 Month : December 1960

TABLE 66
 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
2.80	2.75	2.70	2.70	2.60	R	2.45s	2.20	2.30F	F	2.20F	F	1
2.55	2.40	2.40	2.30	2.25	2.35	2.20	2.30	2.50F	2.55	2.60	2.90	2
2.45	2.45	2.35	2.25	2.45	2.50	2.45	2.35	2.40	2.45	2.60F	F	3
2.50	2.45	2.40	2.40	2.25	2.40	2.30	2.10	2.20	2.40	2.65	2.80F	4
2.40	2.35	2.30	2.20	2.25	2.40	2.40	2.40	2.45	2.50	2.70F	2.75	5
2.65	2.70	2.70	2.75	2.75	R	2.45	S	2.55s	2.75	3.00	3.05	6
2.40	2.40	2.30	2.25	2.20	2.30	2.20	2.30	2.70	2.90	2.95	2.90	7
2.45	2.35	2.25	2.10	2.35	2.45	2.45	2.50	2.50	2.50	2.50F	2.60	8
2.50	2.45	2.30	2.20	2.20	2.45	2.45	2.55	2.65	2.65	2.75	3.00	9
2.40	2.30	2.25	2.25	2.35	2.45	2.55	2.40	2.40	2.55	2.55s	2.80	10
2.50	2.40	2.30	2.40	2.40	2.55	2.50	2.50	2.45	2.70	2.95	3.10	11
2.35	2.40	2.35	2.40	2.45	2.50	2.50	2.40	2.40	2.55	2.80	2.90	12
2.45	2.50	2.50	2.45	2.35	2.25	2.25	2.30	2.50	2.70	2.70	2.95	13
2.45	2.50	2.45	2.45	2.50	2.55R	2.45	2.50	2.50	2.90	3.10	3.20	14
2.35	2.40	2.30	2.35	2.40	C	C	C	C	C	C	C	15
2.60	2.70	2.65R	R	R11	2.45	2.50	2.80	3.00	2.85	3.10	3.45	16
2.50	2.45	2.50	2.50	2.55	2.55	2.65	2.75	3.00	3.30	3.30	3.25	17
2.60	2.75	2.70	2.50	2.35	2.35	2.50	2.50	2.70	2.90	2.75	2.85	18
2.75	2.85	2.90	2.85	2.70s	2.60	2.50	2.65	2.85	3.20	3.25	3.20	19
2.75	2.90	2.95	2.90	2.80	2.80	C	2.90	3.15	3.40	3.40	3.30	20
2.50	2.60	2.55	2.70	2.75	2.70	2.60	2.75	2.85s	2.90	3.10	3.30	21
2.70	2.85	2.90	2.85	2.85	2.75	2.60	2.70R	3.10	3.30	3.25	3.25	22
2.70	2.75	2.85	2.90	3.05	3.00	2.85	2.95	3.20	3.30	3.25	3.20	23
C	2.70	2.60	2.70	2.70	2.80	2.60	2.45	2.65	3.15	3.35	3.30	24
2.70	2.60	2.75	2.85	3.00	2.90	2.95	2.95	3.20	3.45	3.50	3.20	25
2.50	2.60	2.60	2.70	2.80	2.70	2.45	2.50	2.80	3.10	3.25	3.10	26
2.45	2.60	2.55	2.55	2.50	2.40	2.50s	2.60	3.05	3.20	3.15s	3.05	27
5.55	2.70	2.60	2.50	2.40	2.40	2.50	2.45	2.55	2.75	2.95	3.10	28
2.40	2.45	2.60	2.50	2.60	2.55	2.45	2.40F	2.55F	2.60	2.60	2.65	29
2.40	2.45	2.50	2.60	2.55	2.55	2.50	2.60	2.75	3.00	3.20	3.30s	30
2.30	2.30	2.45	2.60	2.60	2.55	2.40	2.45R	2.55	2.60	2.75	2.95	31
30	31	31	30	30	28	29	29	30	29	30	28	Count
2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.60	2.85	2.95	3.10	Median
2.50	2.55	2.55	2.50	2.55	2.55	2.50	2.50	2.70	2.85	2.90	3.05	Mean

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

Characteristic . (M 3000) F₂
 Unit : —
 Month : December 1960

TABLE 66—*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	3 10	3 10	3 25	3 60	R	F	3 15	2 75	2 85	3 05	2 75	2 90
2	F	F	F	F	3-10 _F	F	3 00	2 80	2 80	2 55	2 50	2 55
3	3 00	3 35 _F	3 35	3 35	3 40	2 80 _H	3 10	2 95	2 70	2 60	C	2 50
4	3 00	3 25	3 20	3 25	3 50	2 95	2 95	2 85	2 70	2 60	2 60	2 50
5	3 05	3 10	3 15	3 30	3 55	3 40	3 10	2 80	2 60	2 50	2 40	2 50
6	3 00	3 05	3 15	3 30	C	C	C	C	C	C	C	C
7	2 90	2 75	2 85	3 05	3 40	3 45	3 10	2 70	2 55	2 40	2 45	2 40
8	3 00	3 15	3 20	3 35	3 30	3 40	3 35	3 15	2 75	2 25	2 40	2 45
9	3 55 _F	F	F	3 15	3 45	3 50	3 30	3 15	3 05	2 70	2 35	2 55
10	3 00	2 95	C	3 30	3 40	3 50	3 30	3 20	2 95	2 60	2 30	2 30
11	3 00	3 10	3 05	3 20	3 40	3 30	3 20	3 15	2 80	2 35	2 40	2 45
12	3 20	3 25	3 25	3 15	3 10	3 15	3 15	3 05	2 70	2 60	2 40	2 35
13	3 10	3 05	3 05	3 20	3 45	3 35	3 25	3 15	2 85	2 55	2 40	2 35
14	3 40	3 50 _s	3 50	3 45	3 50	E	3 20	2 95	2 70	2 70	2 60	2 50
15	3 50	3 30	3 20	3 10	3 10	3 25	3 35	3 35	3 20	2 95	2 50	2 35
16	C	C	C	C	C	C	C	C	2 80	2 70	2 65	2 60
17	3 30	3 30	3 40	3 50	3 40	3 40	3 20	3 00	2 90	2 75	2 70	2 60
18	3 25 _s	3 20	3 20 _s	3 15	3 30	3 20	2 90 _H	2 90	2 95	2 70	2 65	2 60
19	3 10	3 10	3 00 _s	3 00	3 00	3 25	3 20	2 90	2 60	2 65	2 60	2 65
20	3 30	3 40	3 50	3 45	3 35	3 45	3 35	3 15	2 75	2 60	2 70	2 75
21	3 50	3 35	3 30	3 20	3 00 _v	F	F	3 00	2 55	2 60	2 60	2 50
22	3 35	3 50	3 40	3 25	3 00	R	3 40	3 30	2 75	2 40 _H	2 70	2 70
23	3 35	3 30	3 35	3 40	R	E	3 45	3 10	C	C	2 65	2 70
24	3 20	3 30	3 40	3 50	3 50	E	3 50	3 00	2 70	2 65	2 60	C
25	3 25	3 40	3 40	3 40	3 55 _R	3 45 _C	3 40	3 10	2 55	2 75	2 65	2 65
26	3 15	3 20	3 40	3 25 _R	3 20 _R	R	3 35	3 30	2 80 _H	2 45	2 65	2 50
27	3 05	3 00	3 15	3 00	3 15	3 45	3 25	2 95	2 50 _H	2 65	2 45	2 50
28	3 25	3 25	3 25	3 15	2 95	3 20	3 05	2 95	2 80	2 45	2 50	2 60
29	3 20	3 30	3 40	3 30	3 30	3 45 _R	3 35	3 20	3 05	2 55	R	2 40
30	3 00 _F	3 15	3 50	3 50 _R	E	E	3 20	3 00	2 50	2 45	2 35	2 50
31	3 30	3 25	3 05	3 10	3 55	3 50	3 40	3 20	2 75	2 30	2 30	2 30
Count	29	28	27	29	26	20	28	29	29	29	28	29
Median	3 15	3 25	3 25	3 25	3 40	3 40	3 20	3 00	2 75	2 60	2 60	2 50
Mean	3 15	3 20	3 25	3 25	3 30	3 30	3 25	3 05	2 75	2 60	2 55	2 50

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : (M 3000) F₂
 Unit : —
 Month : December 1960

TABLE 66—*contd.*
 Ionospheric Data
 75°E Mean Time

Latitude: 10°2'N
 Longitude: 77°5'E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2 70	2 70	2 65	2 60	R	R	υ2 30c	υ2 25s	2 30F	F	F	F	1
2.50	2 50	2 40	2 30	2 40	2 30	2.25	2.40	2 70	2 50	2 85	2.90	2
2 45	2 40	2 35	2 30	2.45	2 50	2 35	2 40	2 45	2 50	F	2 90	3
2 50	2.45	2 40	2.35	2 35	2 30	2 20	2 20	2 40	2 50	2 70	2.90	4
2 35	2 30	2 30	2 20	2 30	2 50	2 40	2 35	2 45	2.50	2 60	2 90	5
2 70	2.65	2 75	2 70	2 70	2 60	S	2 50	2 65	2 85	3.00	3 05	6
2 40	2 35	2 25	2 15	2 25	2 35	2 30	2 45	2 75	2 90	2 90	3 00	7
2 45	2 35	2 20	2 15	2 45	2 50	2 45	2 50	2 55	2 50	2 50F	2.55	8
2 55	2 40	2 30	2 15	2 25	2 40	2 40	2 50	2 60	2 60	2 90	3.00	9
2 30	2 25	2 25	2 35	2.40	2 50	2.40	2 30	υ2 45s	υ2.50s	υ2 65s	2 85	10
2 45	2 35	2 30	2 35	2 45	2 50	2.45	2 40	2 50	2 85	3.05	3.10	11
2 45	2 40	2 35	2 45	2 45	2 55	2 45	2 40	2.50	2 70	2 90	3 00	12
2 50	2 45	2 45	2 40	2 30	υ2 25R	2 30	2 30	2 60	2 70	2 80	3 10	13
2 50	2 45	2 45	2 45	J2 55R	2 50	2 45	2 50	2 70	2 90	3.10	3 30	14
2 35	2 40	2.35	2 35	C	C	C	C	C	C	C	C	15
2.65	2 65	R	J2.25RH	2 50	2 50	2 70	2 95	υ2 70R	3 05	3 40	3.40	16
2 50	2 50	2 60	2 50	2 55	2 55	2 70	2 90	3 10	3 20	3 30	3 30	17
2 65	2 75	2 65	2 40	2 30	2 50	2 50	2 60	2 80	2 80	2.75	2 90	18
2 80	2.85	2 85	2.75	2 60	2 50	2.55	υ2 70s	3 00	3 30	3 20	3 20	19
2 85	2 90	2 90	2 90	2 80	C	C	3 15	3.20	3 45	3 45	3.40	20
2 60	2.60	2 65	2 75	2 65	2 70	2 70	υ2 85s	3.00	3 05	3 30	3 25	21
2 75	2.95	2 85	2 90	2 80	υ2 65R	2 65	3 00	3 30	3 30	3 25	υ3.30s	22
2 75	2 80	2 90	3 00	3 05	2 90	2 85	3.10	3 20	3 40	3.20	3 10	23
2 65	2 75	2.70	2 80	2 85	2 70	2 50	2 45	2 90	3 25	υ3.30s	3 20	24
2 70	2 60	2 70	2 95	3 00	3 00	2 90	3 05	3 50	3 30	3.10	3 10	25
2 45	2 65	2 60	2 80	2 75	2 60	2 45	2 60	3 05	3 20	3 15	3 15	26
2 60	2 65	2 40	2 55	2 45	2 45	2 55	2 80	3 15	3 25	3 20	3 00	27
2 65	2 60	2 50	2 40	2 40	υ2 50s	2 50	2 50	2 65	2 95	υ3 00c	3 25	28
2 35	2 60	2.55	2 55	2 55	2 60	2 40	F	2 60	2 65	2 65	2 80	29
2 45	2 45	2 55	2 60	2 55	2.50	υ2 60R	2 60	2 85	3 15	3 35	3 35	30
2.20	2.45	2 50	2 65	2 60	2 40	2 50	2 50	2 55	2 65	2 90	3 00	31
31	31	30	31	29	28	28	29	30	29	28	29	Count
2.50	2.50	2 50	2.45	2 50	2 50	2 45	2 50	2.70	2.90	3 00	3 10	Median
2 55	2 55	2 50	2 50	2 55	2 55	2 50	2 60	2 75	2 90	3 00	3 10	Mean

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

ERRATA FOR KODAIKANAL OBSERVATORY BULLETIN NO. CLXIV

Part I.

Page.	Date	Column	for	read
357	August 1960	3	152.2	152.1
	September	7	38.73	38.74
	October	3	143.4	142.4
	December	3	150.4	150.3
	3rd quarter	3	386.9	386.8
	4th quarter	3	390.0	388.9
	2nd half year	3	776.9	775.7
	July-December 1960	Total areas East	3696.5	369.7
		(Sq. minutes) West	4060.5	406.0
358	1960 August 8.	4	50.05	05.05
361	1960 July-December	Total area East	5940	3,71,250
		West	6760	4,22,500

Part II

Page No.	Date/line	Column No.	for	read.
364	13	12	37.3	37.0
366	7	12	83.3	38.3
366	Mean ††	13	36.3	36.8
366	2	14	38.8	38.3
366	7	14	83.3	38.3
366	7	14	38.1	39.1
369	Mean ††	3	36.3	36.3
375	Mean ††	1	36.3	Hours
375	Mean ††	1	36.3	35.5
376	Mean ††	1	36.3	527
377	Mean ††	44 & 13	36.3	H.M.
378	Mean ††	13	42.3	54
380	Mean ††	13	52.3	623
381	Mean ††	13	59.3	695
385	Mean ††	13	47.4	514
385	Mean ††	13	33.7	383
385	Mean ††	13	33.7	528
385	Mean ††	13	33.7	497
386	Mean ††	13	33.7	549

Part III.
(Ionospheric data)

Page No.	Date/line	Column/Hour	for	Read.
404	23	1030	10.0H	11.1H
	29	0430	3.9	2.4
	30	1030	9.5	5.2
405	21	1430	10.9	10.8
425	4	1330	2.0	3.7
	19	1230	3.4	2.4
428		0930, 1030 &	LM	LH
		1130		
429	31	1230	L	35
	Count	1630	1	-
435	6	17	110	100
437	30	09	2.25	2.25
438	24	05	3.7R	3.7V
462	6	07	8.C	3.0

Page No.	Date/line	Column/Hour	for	read.
466	13	06	1.1	2.1
488	7	0530	4.10	3.10
512	Count	0630	30	29
552	Count	0630	11	14
565	24	1830	V80	380
570	2	07	501	105
	Count	11	260	29
578	11	01	U11.80	U11.60
589	1 to 5	1230	3	A,3.8,A,A,A
590	16	11	7.	7.8
	20	11	8.8	8.4
	22	11	G4	G
592	Count	-	Count	Mean
	Mean		Mean	Count
606	24	09	220	210
618	25	10	5.90	2.90
	29	11	5.60	2.60
634	3	11	9.8	9.0
638	Characteristic	-	foEs	fbEs
	Count	11	99	29
640	30	1030	483	4.3
641	Count	1230	2.7	27
652	5	0630	235	240
655	13	16	106	110
662	19	08	27.1	2.70
	21	08	2.05H	2.60H
	Mean	02	2.25	3.25