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# Kodaikanal Observatory

Bulletin No. CLXI

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# Kodaikanal Observatory

Bulletin No. CLXI

## PART I

### *Summary of Prominence Observations for the first half of 1960*

The results of observations of prominences made at Kodaikanal Observatory during the first half of 1960 supplemented by data computed from photographs supplied by the Mount Wilson and Meudon Observatories for those days on which Kodaikanal had imperfect or no observations 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 128 days which were counted as 126½ effective days after giving due weightage to the photographs according to their quality. Spectroheliograms for 23 days were obtained from Mount Wilson observatory and for 40 days from the Meudon Observatory. In all, complete observations were available for 166 effective days.

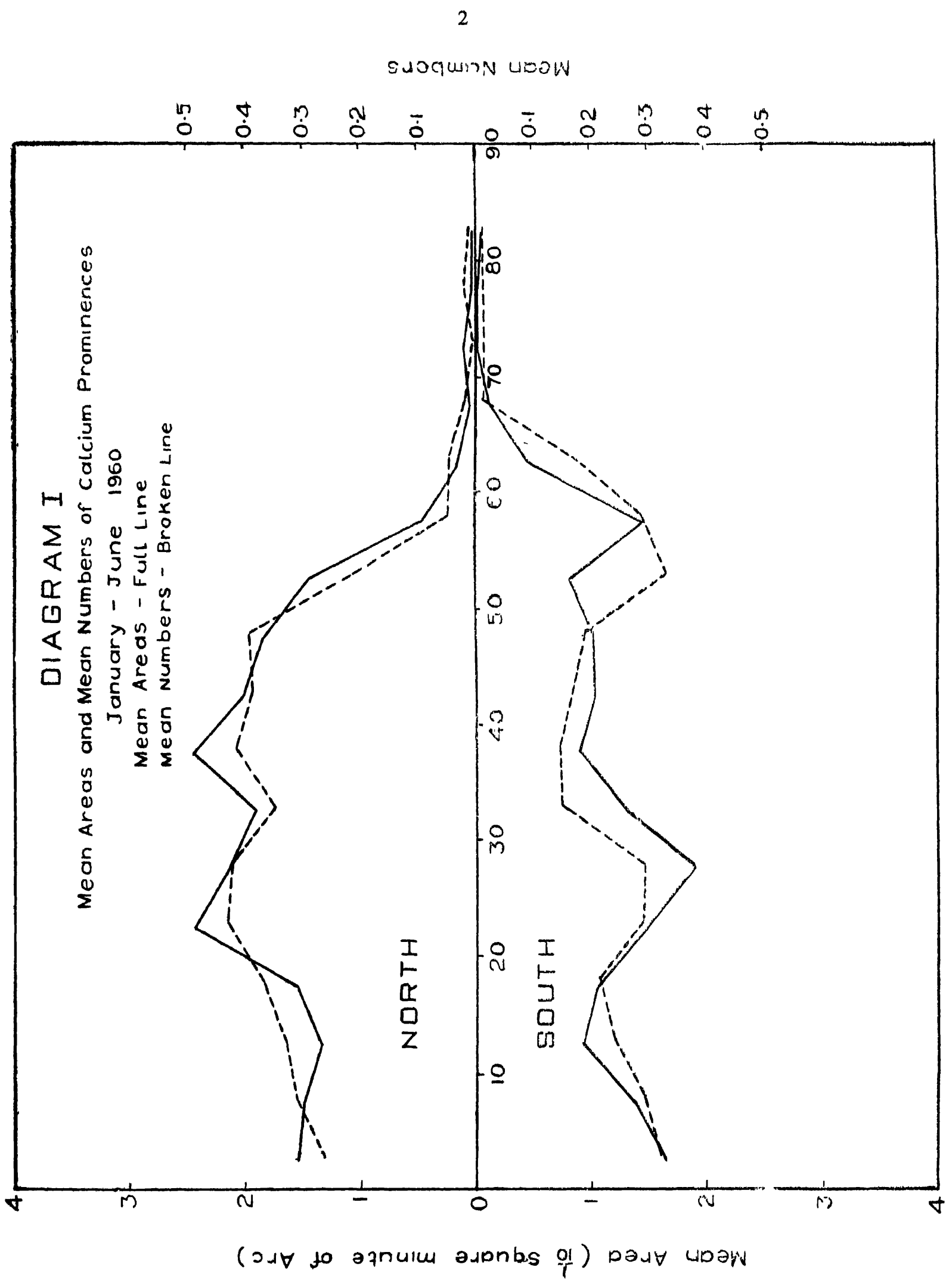
The mean daily areas (in sq. minutes of arc) and the mean daily numbers of prominences derived from the above records are given below:—

	Combined data	
	Mean daily areas (Square minutes)	Mean daily numbers
North	2·08	4·04
South	1·55	3·15
TOTAL	3·63	7·19

These figures when compared with the corresponding values of the previous half year show a decrease of activity, the decrease in area being 41·5% and the decrease in number 21·4%.

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

In the northern hemisphere there are two peaks of activity in the latitude belts 20°—25° and 35°—48°; the maximum activity in the southern hemisphere is in the latitude range 25°—30° with a secondary maximum in the belt 55°—60°.



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

1960 months	No. of effective days	Area (sq minutes)	Numbers	Daily means		Mean height	Mean Extent
				Area (Sq. minutes)	Numbers		
January	28½	106.70	207	3.78	7.33	46.08	2.97
February	26½	92.10	179	3.78	6.55	47.04	3.20
March	29½	90.85	195	3.05	6.55	46.33	3.38
April	30	117.85	206	3.93	6.87	45.17	4.21
May	25	75.05	180	3.00	7.20	38.11	3.17
June	26½	120.50	228	4.55	8.60	42.17	2.56
First quarter	84½	289.65	581	3.54	6.81	46.48	3.18
Second quarter	81½	313.40	614	3.83	7.56	41.82	3.64
First half-year	166	603.05	1195	3.69	7.19	44.15	3.41

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

	East	West	Percentage East
1960 January—June			
Total areas (Sq. minutes)	2717.5	3313.0	45.05%
Total numbers	585	610	49%

#### Observations with the Hale Spectroheliograph

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

	North	South	East	West	Total	Displacements to red & violet
1	2	3	4	5	6	7
Displacements in prominences	40	32	34	38	72	72
Displacements in dark-markings	41	10	21	30	51	51



*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			
February 4	*08 45	08 45	08 58	10°N	37°W	1+	2.0			
February 20	*03 07	03 07	03 13	20°S	63°E	1	1.6			
March 29	*08 35	08 37	08 45	12°N	30°E	2	1.8			
April 1	02 42	02 47	03 00	11°N	02°W	1	1.7			
April 3(i)	*03 17	03 17	03 22	12°N	33°W	2	1.7			
April 3(ii)	05 42	05 44	05 52	12°N	35°W	1	1.6			
April 4	*02 18	02 21	02 34	12°N	50°W	2	1.4			
April 5	02 15	02 45	03 08	12°N	62°W	2	1.4			
April 29	02 09	04 04	05 05	10°N	22°W	3	2.0			
May 25	02 35	02 35	02 58	12°N	06°E	1	2.0			
June 10	05 10	05 20	05 25	31°N	56°W	2	1.7			

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

*Surges, Active Prominences etc.*

Details of surges, active prominences and eruptive prominences are given in the following table:—

Date	Pheno- menon	Impor- tance	Time in U.T.				Position (Heligraphic)		Direction of out- flow	Remarks
			Beg	End	Lat.	Long				
14th Jan., 1960	EPL	1	03 32	05 00	20°N	90°E	r	Disappeared before 1100.		
15th Jan., 1960	EPL	2	04 30	05 10	29°N	90°W	rs			
7th Feb., 1960	EPL	1	09 25	09 30	20°S	90°E	r	S		
6th Mar., 1960	APR	2	03 32	04 15	05°N	90°E	r	Q		
11th Apr. 1960	APR	1	05 37	06 15	05°S	90°E	r	J		
14th Apr., 1960	EPL	2	03 55	04 15	30°N	90°W	r	T		

Code:

DSD—Dark surge on disk,  
BSL—Bright surge at limb;  
APR—Active prominence region,  
BSD—Bright surge on disk;  
EPL—Eruptive prominence at limb.

*Sudden disappearances*

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

1960 Date	Time when object last observed before activation (U.T.)		Time when disintegration first observed (U.T.)		Time when object has disappeared (U.T.)		Approximate position of centre Lat. Long.		Greatest extension of filament	Importance	Remarks
	Day	Hour	Day	Hour	Day	Hour	Lat.	Long.			
February 4	05	49			08	57	42°N	02°E	25°	3	The dark-marking was not seen on the spectroheliogram taken at 0857.
February 18	04	30			05	00	26°S	90°E	7°	1	Prominence was seen till 0430 hrs. At 0500 when observation commenced it was not seen.
March 24	03	10	0400		04	15	19°S	90°E	10°	1	The prominence observed till 0310 was found to have suddenly changed its shape at 0400 hrs. At 0415 hrs. it disappeared.

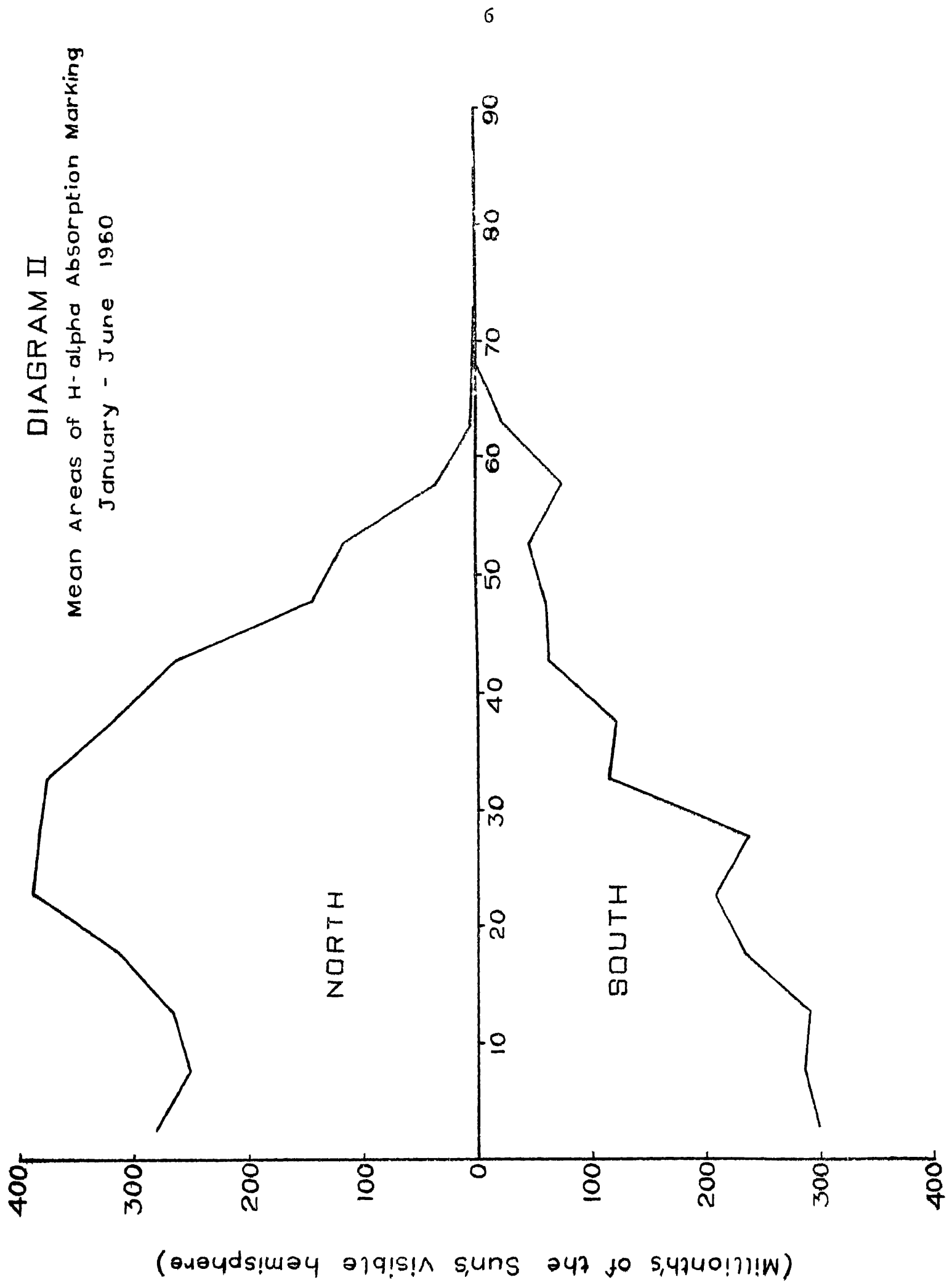
*Prominences projected on the disc as absorption markings*

During the half-year under review photographs of the sun's disc in H-alpha line were obtained at Kodaikanal on 134 days. H-alpha spectroheliograms were also received for 24 days from Mount Wilson Observatory and for 33 days from Meudon Observatory. On the whole records were available for 174½ 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*

		Combined data	
		Mean daily area (millionths of the sun's visible hemisphere)	Mean daily number
North	.	2958	18.62
South	.	1951	14.04
TOTAL		4909	32.66



On comparing with the previous half-year's values, the figures show a decrease in activity, the decrease being 16.7% in areas and 9.6% in numbers.

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 total area of darkmarkings in the northern hemisphere is considerably more than in the southern hemisphere, with a broad peak of activity in the latitude belt 25°—35°.

The distribution of total areas and numbers of the darkmarkings east and west of the sun's axis of rotation is given below:—

*January—June, 1960*

	Combined data		
	East	West	Percentage East
Total area (millionths of the sun's visible hemisphere)	4,48,531	4,81,250	48.2%
Total numbers	2,868	2,832	50.3%

*Summary of calcium flocculus observations*

During the half-year under review, calcium flocculus photographs were obtained at Kodaikanal on 130 days. Spectroheliograms for 32 days were obtained from Mount Wilson Observatory and for 40 days from Meudon Observatory. On the whole records were available for 171½ effective days.

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

*January—June, 1960*

	Combined data		
	East	West	Percentage East
Total area (in millionths of the sun's visible hemisphere)	19,25,687	20,38,875	48.6%

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

	North	South	Total
Mean daily area (in millionths of the sun's visible hemisphere)	13,789	9,046	22,835

Compared to the previous half-year there is decrease in activity of 12.9%.

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

## PART II

*Magnetic observations for the first-half of 1960*

Brief descriptions of the absolute instruments, the variometers and the system of observations are available in Bulletins Nos. CXXXII and CXXVI 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 first half of 1960 were  $29\gamma/\text{cm.}$ ,  $120\gamma/\text{cm.}$  and  $14'/\text{cm.}$  respectively.

## PART III

*Ionospheric Observations for the first-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 World-wide Ionospheric Soundings to the URSI/AGI in its First Report (Brussels, September 2, 1956).

KODAIKANAL OBSERVATORY, }  
August, 1962.

M. K. VAINU BAPPU,  
Director,

**MAGNETIC DATA**

TABLE 1

## Hourly values of Declination (Westerly), 1960

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

January

2° plus tabular quantities

Date	Hours G M T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1†	36.7	37.5	38.4	38.6	38.6	38.5	38.1	38.1	36.3	34.9	34.6	35.0	36.1	36.4	36.0
2†	36.7	36.8	37.5	37.2	37.1	36.7	36.7	36.5	35.6	35.0	34.6	34.7	35.7	36.3	36.0
3	36.5	36.8	37.4	37.8	37.6	37.1	36.9	37.9	37.5	36.4	35.4	35.2	35.8	36.4	35.9
4	36.4	36.5	37.2	37.2	37.6	37.5	37.9	37.9	38.3	38.2	36.6	35.7	36.4	36.5	36.1
5	37.2	37.2	37.2	36.6	36.6	36.4	37.9	37.9	37.9	36.9	36.4	36.1	35.8	35.4	35.1
6	35.1	35.9	36.1	36.4	36.2	36.1	36.4	36.1	35.2	35.4	35.1	35.0	35.1	35.8	35.7
7	36.5	36.2	35.7	35.5	35.7	36.9	38.7	37.5	36.6	36.6	36.5	36.4	36.4	36.6	36.2
8	36.2	36.2	36.6	36.2	35.9	37.3	37.9	37.3	36.7	36.6	36.6	36.2	36.0	36.3	36.5
9†	36.6	36.6	37.3	37.4	37.3	38.6	39.4	39.4	38.6	37.6	36.5	35.8	36.0	36.5	36.3
10††	37.0	37.6	38.4	38.6	37.0	38.0	38.7	39.3	36.3	35.5	34.5	34.6	34.8	34.5	34.1
11††	36.7	37.2	37.6	37.6	36.9	36.6	37.0	37.3	36.3	36.3	35.1	35.5	35.9	35.5	35.2
12	36.9	37.6	38.0	37.3	36.6	36.6	37.7	36.9	35.2	35.2	35.5	36.2	35.8	35.3	35.2
13	36.7	37.4	37.9	37.9	36.9	36.7	37.3	37.0	36.5	36.0	35.6	35.6	36.5	36.5	36.0
14††	37.3	38.6	39.1	38.7	37.8	36.6	36.0	35.0	33.9	33.2	33.2	34.0	34.5	34.9	34.9
15††	36.1	38.0	38.9	38.8	37.4	36.1	36.4	36.0	34.6	33.5	33.6	34.3	35.3	35.6	35.3
16	36.4	36.7	37.1	37.3	36.8	37.5	38.1	38.1	36.8	35.4	34.7	35.2	36.0	36.1	35.6
17	36.7	37.0	37.1	37.0	37.1	37.5	37.3	37.7	36.8	36.0	35.4	35.9	36.0	36.6	36.3
18	37.5	37.7	38.2	38.9	38.2	38.9	39.3	38.5	37.6	34.3	32.0	31.8	33.0	35.3	35.4
19	36.8	37.2	37.2	37.6	37.8	38.3	39.2	38.2	36.8	35.8	35.4	35.4	35.4	35.7	35.5
20	36.9	37.1	37.5	37.6	38.1	38.3	39.2	38.9	39.2	37.8	36.8	35.5	36.1	36.4	35.8
21††	Δ	Δ	Δ	Δ	36.5	37.0	38.3	37.3	35.6	35.6	34.5	34.0	33.1	34.4	34.7
22	36.3	36.1	36.5	36.1	35.6	35.8	37.5	37.6	36.8	35.6	35.5	34.1	35.1	35.4	35.5
23	Δ	Δ	Δ	Δ	35.6	35.9	37.3	38.1	38.3	38.5	38.4	37.1	36.9	36.4	35.6
24	37.1	37.4	37.4	37.1	35.6	34.9	36.0	37.0	37.6	38.0	37.6	36.4	35.6	35.6	35.6
25	37.0	37.3	37.3	37.0	37.0	37.1	37.6	38.0	38.0	38.0	37.8	37.0	36.9	36.4	35.7
26	37.4	37.7	38.0	37.9	36.7	36.3	37.2	37.1	37.0	36.4	36.1	36.1	36.7	36.5	36.4
27	37.1	37.7	38.1	37.9	38.2	37.1	37.2	37.2	36.3	37.0	37.5	37.5	37.2	37.8	37.1
28	37.1	38.1	38.9	39.3	38.8	38.5	38.8	38.5	37.8	36.8	36.4	36.8	37.7	37.7	37.1
29	38.1	38.5	39.1	39.9	40.0	39.8	39.9	39.9	38.4	36.3	35.7	35.7	36.7	37.1	37.0
30†	37.1	38.4	39.2	39.8	39.5	39.3	39.5	38.4	36.8	35.7	35.1	35.4	36.1	37.0	37.0
31†	37.2	37.7	38.2	39.1	39.8	39.3	38.5	37.8	37.1	36.8	36.5	36.5	37.1	37.1	36.7
Mean	36.8	37.3	37.7	37.8	37.4	37.4	37.8	37.6	36.8	36.1	35.6	35.6	35.9	36.2	35.9
Mean†	36.9	37.4	38.1	38.4	38.5	38.5	38.4	38.0	36.9	36.0	35.5	35.5	36.2	36.7	36.4
Mean††	36.8	37.8	38.5	38.4	37.3	36.8	37.0	36.9	35.9	34.6	34.1	34.6	35.1	35.1	34.9

† 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)

January

2° plus tabular quantities

Hours G. M. T										Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23	Mean	Time	Mag.	Time	Mag.	Mag.	
										H. M.		H. M.			
36.0	36.1	36.3	36.1	36.0	35.8	36.1	36.3	36.4	36.6	06 00	39.2	10 00	34.6	4.6	1†
36.0	36.0	36.1	36.3	36.1	36.0	36.0	36.3	36.4	36.2	01 45	37.7	10 00	34.6	3.1	2†
36.2	36.1	36.2	36.1	36.1	35.9	35.1	35.2	35.2	36.4	07 00	37.9	11 00	34.2	3.7	3
36.4	36.4	36.5	36.5	36.5	36.6	36.8	36.9	37.1	36.9	08 35	38.9	10 45	35.5	3.4	4
35.0	35.0	35.0	35.0	35.1	35.1	35.2	35.2	35.0	36.1	05 50	38.0	14 19	34.7	3.3	5
35.8	35.9	35.1	35.1	35.1	35.2	35.1	35.1	35.2	35.6	06 10	36.5	11 00	35.0	1.5	6
36.2	36.5	36.5	36.4	36.1	36.1	36.1	36.4	36.4	36.4	05 54	39.2	03 12	35.4	3.8	7
36.5	36.6	36.6	36.6	36.5	36.5	36.5	36.5	36.6	36.6	05 34	38.0	03 39	35.2	2.8	8
36.5	36.5	36.3	36.6	36.6	36.5	36.5	36.5	36.6	37.0	06 00	39.4	10 58	35.6	3.8	9†
34.2	34.4	34.5	35.2	35.3	35.8	36.2	35.6	35.9	36.1	07 15	40.0	14 07	33.8	6.2	10††
35.8	35.3	35.3	35.6	35.9	36.0	36.0	36.3	36.6	36.2	02 17	38.0	09 04	34.4	3.6	11††
35.6	36.2	35.9	35.5	35.6	35.6	36.2	36.3	36.3	36.2	02 00	38.0	08 05	35.1	2.9	12
35.8	35.6	35.9	35.9	36.2	36.6	36.5	36.6	37.3	36.5	02 02	38.0	10 05	35.3	2.7	13
35.0	35.3	35.6	36.0	36.1	34.9	34.6	34.5	34.6	35.6	01 54	39.4	10 22	32.5	6.9	14††
35.4	35.3	35.4	35.4	35.4	35.7	35.6	35.6	36.0	35.8	02 58	39.5	08 50	33.3	6.2	15††
35.7	36.1	36.1	36.3	36.3	36.4	36.3	36.6	36.7	36.4	06 25	38.2	10 00	34.7	3.5	16
35.7	35.9	36.3	36.3	36.3	36.6	36.7	36.7	37.1	36.6	04 25	37.8	09 30	35.3	2.5	17
35.4	35.4	35.5	36.1	36.1	36.2	36.5	36.8	36.8	36.3	05 42	39.6	10 35	31.2	8.4	18
35.5	36.1	36.1	36.5	36.5	36.5	36.5	36.7	36.8	36.6	06 00	39.2	10 00	35.4	3.8	19
36.0	36.1	36.1	36.0	36.4	36.7	36.7	Δ	Δ	Δ	Δ S	Δ	Δ S	Δ	Δ	20
34.7	35.2	35.4	35.2	35.4	35.5	35.8	36.2	36.5	Δ	Δ S	Δ	Δ S	Δ	Δ	21††
35.5	35.5	35.5	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ S	Δ	Δ S	Δ	Δ	22
35.7	35.9	36.3	36.7	36.3	36.6	36.9	36.9	37.0	Δ	Δ S	Δ	Δ S	Δ	Δ	23
35.6	35.6	35.7	36.0	36.3	36.6	36.7	37.0	37.0	36.5	09 20	38.4	04 45	34.3	4.1	24
35.7	35.9	36.0	36.4	36.4	36.3	36.6	36.9	37.0	36.9	06 55	38.1	14 20	35.6	2.5	25
36.4	36.4	36.4	36.4	36.7	36.7	36.7	36.8	37.0	36.8	02 00	38.0	10 00	36.1	1.9	26
36.8	36.5	36.7	36.7	36.7	36.7	36.7	36.7	36.8	37.1	03 45	38.4	07 00	35.8	2.6	27
37.1	37.1	37.1	37.1	37.1	37.4	37.2	37.4	37.8	37.6	02 55	39.5	10 00	36.4	3.1	28
36.8	36.7	36.7	36.5	36.5	36.5	36.5	36.8	37.0	37.6	03 35	40.2	10 58	35.6	4.6	29
36.7	36.8	36.8	36.8	36.7	36.7	36.8	37.0	37.1	37.3	03 05	39.9	09 50	35.0	4.9	30†
36.7	36.4	36.5	36.5	36.5	36.8	37.0	37.1	37.1	37.3	04 22	39.9	16 00	36.4	3.5	31†
35.9	36.0	36.0	36.1	36.2	36.2	36.2	36.4	36.5	36.6					3.8	Mean
36.4	36.4	36.4	36.5	36.4	36.4	36.5	36.6	36.7						Mean†	
35.1	35.1	35.2	35.2	35.7	35.6	35.6	35.5	35.8						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)  
 February 2° plus tabular quantities

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

† 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)

February										2° plus tabular quantities					Date
Hours G M T										Maximum		Minimum		Range	
15	16	17	18	19	20	21	22	23	Mean	Time	Mag.	Time	Mag.	Mag.	
										H. M.		H. M.			
36.1	36.5	36.8	36.8	37.0	37.0	37.1	37.4	37.4	37.5	06 10	40 3	13 50	35.7	4.6	1
36.4	36.5	36.5	35.7	35.6	35.6	35.6	35.6	35.7	37.2	07 00	39 8	19 00	35.3	4.5	2
36.1	36.4	36.1	35.8	35.7	36.0	36.4	35.8	35.6	36.9	08 00	39 8	11 05	35.4	4.4	3
36.1	36.4	36.4	36.3	36.4	35.8	35.7	36.3	36.7	37.0	06 54	40 2	00 01	35.7	4.5	4
35.7	35.7	35.7	35.7	35.7	35.6	35.8	35.7	35.7	36.4	06 12	37.4	19 25	35.3	2.1	5
36.3	36.3	36.4	36.0	36.1	36.3	36.3	36.5	37.1	36.7	05 08	38 2	00 35	35.6	2.6	6
35.8	36.1	36.4	36.8	36.8	37.0	37.0	37.1	37.4	37.1	02 43	39.1	14 00	35.8	3.3	7†
37.1	37.1	37.4	37.2	37.1	37.2	37.4	37.7	38.2	37.8	04 54	39 9	11 00	37.1	2.8	8
37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.4	37.8	38.2	07 00	39 9	15 00	37.1	2.8	9†
Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	10†
36.6	36.8	36.6	36.2	36.4	36.4	35.8	35.7	36.4	Δ	Δ	Δ	Δ	Δ	Δ	11
37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.3	37.8	37.7	06 00	39.6	10 00	37.1	1.5	12
37.2	37.2	37.8	37.5	37.5	36.5	36.2	36.5	36.5	37.6	06 00	40 0	10 12	35.8	4.2	13
35.8	36.2	36.6	36.5	36.2	37.1	36.8	36.9	37.1	36.8	03 00	38.5	14 15	35.5	3.0	14††
35.9	36.1	36.5	36.8	36.6	36.9	37.1	37.2	37.2	37.3	05 15	39.3	14 30	35.8	3.5	15
35.7	36.6	36.9	37.2	37.2	37.3	37.3	37.3	37.8	37.1	06 43	38.3	14 57	35.2	3.1	16††
36.1	36.9	36.9	36.5	36.2	36.1	36.1	35.7	36.1	37.6	06 20	41.4	21 58	35.1	6.3	17††
36.6	36.2	36.6	36.9	36.8	36.9	37.2	37.2	37.2	37.0	06 05	40 0	12 40	35.4	4.6	18††
36.6	36.5	37.0	37.2	36.9	36.3	37.2	37.2	36.9	37.6	06 25	41.1	19 15	36.0	5.1	19
36.2	36.2	36.6	36.7	36.9	36.9	37.0	37.0	37.2	37.1	06 43	39.5	14 00	35.9	3.6	20
35.9	36.3	37.0	36.9	37.0	37.2	37.3	37.2	37.0	36.7	05 58	38.3	11 00	35.1	3.2	21††
36.7	35.9	37.0	37.2	37.0	37.0	37.2	37.3	37.3	37.2	06 25	38.8	11 00	36.0	2.8	22
36.3	36.5	36.6	36.9	36.9	36.9	36.9	37.0	37.0	37.0	06 25	38.0	04 00	36.3	1.7	23
36.9	37.0	37.2	37.0	36.9	37.0	36.9	37.2	37.3	37.4	07 00	38.7	12 00	36.9	1.8	24†
37.3	37.4	37.3	37.4	37.3	37.0	37.0	37.3	37.4	37.6	06 25	39.4	03 00	36.4	3.0	25†
37.3	37.1	37.1	37.3	37.1	37.1	37.4	37.5	37.5	37.5	06 25	38.8	03 00	36.8	2.0	26
36.4	36.4	36.4	36.8	37.0	37.0	37.1	37.1	37.4	37.2	06 52	38.7	11 32	36.0	2.7	27
36.8	36.8	37.1	37.1	36.9	36.9	37.1	37.2	37.2	37.3	07 13	39.9	11 30	36.2	3.7	28
36.7	36.5	36.7	36.5	36.8	36.8	36.5	36.5	37.1	37.2	07 11	39.7	03 00	36.5	3.2	29
36.5	36.6	36.8	36.8	36.7	36.7	36.8	36.9	37.1	37.2				3.4	Mean	
36.8	36.9	37.0	37.1	37.0	37.0	37.0	37.3	37.5						Mean†	
36.0	36.4	36.8	36.8	36.7	36.9	36.9	36.9	37.0						Mean††	

† 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)

March

2° plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	37.1	36.4	36.0	35.5	36.1	37.3	37.7	38.9	39.4	38.6	38.3	37.5	37.3	36.9	36.5
2††	36.1	35.8	35.5	35.5	36.1	36.3	37.2	38.6	38.6	37.5	37.2	36.5	36.2	36.1	35.9
3††	36.2	35.9	36.1	35.8	35.9	36.9	36.6	38.6	38.7	38.0	37.5	37.3	36.9	36.2	35.9
4	36.3	36.2	36.2	36.0	36.2	36.3	37.6	38.7	38.7	38.5	37.7	37.4	37.0	36.4	36.2
5	36.4	36.3	36.2	36.2	36.3	37.3	38.0	38.7	38.7	37.8	37.7	37.7	37.7	37.6	37.3
6	37.3	37.6	37.3	37.3	37.6	37.8	38.8	39.2	39.1	38.3	37.3	36.9	36.9	36.6	36.4
7†	37.6	37.3	36.6	36.3	36.4	36.8	38.2	39.3	40.2	40.0	38.8	38.1	37.8	37.5	37.4
8	38.1	38.1	37.8	37.4	36.7	37.4	37.8	38.8	39.2	39.2	38.4	37.4	36.5	36.3	36.3
9	38.2	37.8	37.7	37.0	36.4	37.2	37.8	38.4	39.2	39.1	37.7	37.0	36.5	36.5	36.8
10	38.1	38.2	38.1	38.0	37.7	37.8	39.0	39.4	40.2	39.0	37.0	37.3	36.6	36.4	36.6
11††	37.7	38.0	38.1	38.3	37.8	37.7	37.7	38.4	38.5	38.0	37.6	36.6	36.0	36.4	36.3
12	37.3	37.1	36.6	36.3	36.2	36.7	37.6	37.3	37.3	36.9	36.6	36.4	36.4	36.6	36.4
13†	Δ	Δ	Δ	Δ	36.7	37.8	38.4	40.6	41.1	40.5	39.1	37.8	37.6	37.4	37.1
14	37.4	37.6	37.1	36.8	36.9	37.3	38.0	39.1	40.3	40.3	38.7	37.7	37.6	37.6	37.5
15	37.6	37.6	37.2	36.2	36.2	37.5	39.0	40.0	40.3	40.0	38.3	37.6	37.6	38.0	37.6
16††	35.8	35.6	35.4	35.9	36.1	36.2	35.8	34.9	36.1	35.9	35.9	35.8	35.8	35.5	35.9
17	37.2	37.2	37.5	36.8	36.3	36.6	37.3	37.7	38.2	37.3	36.6	36.2	36.2	36.6	36.2
18	37.3	37.7	37.2	37.1	37.1	37.4	37.8	38.5	38.9	38.6	37.5	36.9	36.5	36.7	36.9
19	37.5	37.5	37.1	36.7	36.5	36.8	37.5	38.6	38.9	38.5	37.5	36.9	36.5	36.5	36.2
20†	37.5	37.4	37.2	37.2	37.2	37.6	38.2	39.0	39.7	39.0	38.5	37.9	37.5	37.4	37.2
21	37.6	37.6	37.4	37.2	37.5	37.6	37.8	37.9	38.5	38.1	37.5	37.4	37.5	36.9	36.7
22†	37.5	37.2	37.1	37.1	37.8	38.4	38.4	38.7	38.8	38.4	38.0	37.3	36.8	37.0	36.8
23†	37.4	37.4	37.4	37.3	37.3	37.3	37.7	37.8	37.7	37.1	36.3	36.0	36.3	36.8	37.3
24	38.1	37.8	37.7	38.0	38.8	38.8	38.9	39.9	39.2	38.8	37.5	37.3	37.4	37.4	37.5
25	37.3	37.1	36.8	36.6	37.0	37.4	38.7	39.2	39.8	39.1	37.8	37.0	36.8	37.0	37.0
26	37.5	37.5	37.5	38.0	38.7	38.9	39.9	39.8	39.1	38.4	37.4	37.4	37.5	37.5	37.3
27	37.4	37.3	36.8	37.0	37.4	38.1	39.5	39.9	39.4	38.5	37.8	37.5	37.8	38.1	37.8
28	37.4	37.4	36.7	36.4	37.1	38.4	39.8	40.3	40.3	39.9	38.5	37.4	37.4	37.8	37.7
29	37.3	36.7	36.0	35.9	36.1	37.4	38.4	39.3	38.8	37.7	37.3	37.1	37.5	37.8	37.7
30	37.1	37.4	37.1	36.4	36.8	38.2	38.9	40.2	39.8	38.7	37.0	36.0	36.4	36.9	37.4
31††	36.1	35.9	35.7	36.3	37.5	38.9	39.2	39.6	38.8	37.5	37.1	37.4	35.3	36.3	38.5
Mean	37.2	37.2	36.9	36.8	36.9	37.5	38.2	38.8	39.0	38.4	37.6	37.1	36.9	36.9	36.9
Mean†	37.5	37.3	37.1	37.0	37.2	37.5	38.1	38.7	39.1	38.6	37.9	37.3	37.1	37.2	37.2
Mean††	36.4	36.2	36.2	36.4	36.7	37.2	37.3	38.0	38.1	37.4	37.1	36.7	36.0	36.1	36.5

† 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)

March										2° plus tabular quantities					Date
Hours G. M. T										Maximum	Minimum	Range			
15	16	17	18	19	20	21	22	23	Mean	Time	Mag.	Time	Mag.	Mag.	
										H. M.	H. M.				
36.6	36.5	36.3	36.2	36.1	36.3	36.2	36.2	36.2	36.2	07 28	39.7	03 10	35.2	4.5	1
36.1	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	07 30	39.0	03 10	35.4	3.6	2††
35.5	35.8	36.1	36.1	36.2	36.2	36.3	36.2	36.2	36.5	07 55	39.0	14 55	35.4	3.6	3††
36.2	35.9	35.9	35.7	36.0	36.3	36.3	36.3	36.4	36.7	07 00	38.8	17 35	35.6	2.2	4
37.0	36.9	37.0	37.0	36.7	36.7	36.7	37.1	37.3	37.2	07 00	39.0	02 25	36.0	3.0	5
36.4	36.6	36.6	36.6	36.9	37.3	37.1	37.3	37.4	37.4	07 00	39.2	14 00	36.4	2.8	6
37.2	37.2	37.4	37.4	37.4	37.4	37.5	37.7	37.8	37.7	08 00	40.2	03 10	36.1	4.1	7†
36.3	36.1	36.4	36.5	36.7	37.0	37.4	37.8	37.8	37.4	08 28	39.5	15 23	35.8	3.7	8
36.4	36.5	37.1	37.1	37.2	37.2	37.4	37.7	37.9	37.4	08 00	39.2	04 08	36.3	2.9	9
36.3	36.2	36.2	36.3	36.0	36.3	37.0	37.3	37.4	37.4	07 50	40.5	18 40	35.9	4.6	10
36.3	36.4	35.9	35.9	36.0	36.3	36.6	36.7	37.0	37.1	07 10	38.7	17 28	35.3	3.4	11††
36.4	36.4	36.4	36.4	36.4	36.7	37.0	37.6	37.7	36.8	23 00	37.7	04 02	36.0	1.7	12
36.7	36.7	36.7	37.1	37.3	36.9	37.3	37.4	37.6	Δ	Δ	Δ	Δ	Δ	Δ	13†
37.6	37.6	37.6	37.6	37.6	37.5	37.2	37.3	37.5	37.8	08 10	40.4	03 10	36.6	3.8	14
37.2	36.9	36.2	35.9	35.8	35.8	35.8	35.6	35.8	37.3	08 00	40.3	23 32	35.2	5.1	15
36.3	36.3	35.8	36.1	35.9	36.1	36.6	36.5	37.3	36.0	05 15	37.9	02 15	34.9	3.0	16††
36.2	36.1	36.5	36.5	36.6	36.6	36.9	37.0	37.2	36.8	07 56	38.4	16 03	35.9	2.5	17
37.1	36.8	36.9	37.1	37.1	36.8	37.1	37.1	37.4	37.3	08 00	39.3	12 00	36.5	2.8	18
36.2	36.2	36.7	37.1	37.1	37.2	37.2	37.5	37.5	37.2	07 45	39.0	16 05	36.1	2.9	19
37.2	37.2	37.2	37.4	37.5	37.4	37.5	37.6	37.6	37.7	07 36	39.9	03 10	37.1	2.8	20†
37.1	37.1	37.4	37.1	37.2	37.2	37.2	37.4	37.5	37.4	08 07	38.8	13 38	36.5	2.3	21
37.3	37.3	37.3	37.4	37.4	37.3	37.4	37.4	37.4	37.6	07 49	38.9	02 00	36.8	2.1	22†
37.3	37.4	37.4	37.4	37.4	37.3	37.4	37.8	38.2	37.3	23 00	38.2	10 35	35.9	2.3	23†
37.5	37.0	37.0	37.3	37.4	37.5	37.4	37.4	37.4	37.9	07 00	40.2	16 28	36.7	3.5	24
37.1	37.1	37.3	37.3	37.0	37.0	37.1	37.4	37.4	37.5	08 00	39.8	03 10	36.4	3.4	25
37.4	37.4	37.4	37.1	37.3	37.3	37.1	37.4	37.4	37.8	06 30	40.2	18 00	37.1	3.1	26
38.0	37.7	37.5	37.4	37.4	37.4	37.4	37.4	37.4	37.8	06 45	40.1	02 30	36.3	3.8	27
37.7	37.1	36.4	37.8	37.1	37.1	37.4	37.5	37.4	37.8	07 20	40.6	16 30	36.2	4.3	28
37.5	37.5	37.5	37.3	37.1	37.3	37.3	37.4	37.4	37.4	07 16	40.2	03 20	35.7	4.5	29
37.0	36.8	36.1	36.1	36.0	35.9	35.9	36.0	36.1	37.1	07 00	40.2	21 15	35.6	4.6	30
38.5	37.4	35.7	34.9	34.5	34.2	33.2	31.8	28.9	36.2	06 25	40.1	22 40	28.2	11.9	31††
36.9	36.8	36.7	36.7	36.7	36.8	36.8	36.9	36.9	37.2				3.6	Mean	
37.2	37.3	37.3	37.4	37.4	37.4	37.4	37.6	36.2					Mean†		
36.5	36.4	35.9	35.8	35.8	35.8	35.8	35.5	35.1					Mean††		

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

April

2° plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1††	28.3	30.4	32.5	34.2	34.0	37.5	37.3	37.4	38.7	38.7	37.3	36.7	35.7	34.1	31.8
2	31.9	32.8	33.9	35.9	37.3	38.4	38.8	38.8	37.5	36.4	34.6	33.2	33.2	33.2	35.2
3††	35.9	34.7	33.3	34.7	35.3	35.0	34.9	34.3	35.6	37.0	37.3	36.8	36.1	36.0	35.7
4	34.6	34.6	34.3	34.7	35.6	36.1	37.3	38.2	38.2	37.4	36.1	35.6	35.4	35.4	35.6
5	35.7	35.7	35.0	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
6	35.1	35.0	33.0	33.9	34.7	35.3	37.5	38.8	38.8	37.7	36.8	35.7	35.6	35.6	35.6
7	35.7	34.7	34.3	33.8	34.3	34.7	36.6	37.5	38.0	37.3	36.4	36.0	36.0	36.0	36.0
8	35.7	34.6	33.6	34.0	34.3	36.0	37.5	38.0	37.4	36.7	36.0	35.9	35.6	36.1	36.0
9†	36.0	35.6	35.0	36.0	36.8	36.1	38.5	38.6	38.6	37.2	36.5	36.1	36.1	36.1	36.1
10	36.2	36.0	35.4	35.9	37.5	38.9	39.0	39.6	39.0	38.0	37.2	36.2	36.1	35.2	35.8
11	35.9	35.6	34.8	34.9	35.6	36.3	37.3	37.7	37.6	36.9	36.0	36.0	35.6	36.0	36.3
12	36.7	36.3	36.3	37.0	37.5	38.2	38.5	39.2	37.6	37.7	37.1	36.5	36.3	35.3	35.7
13	35.7	35.0	35.0	36.0	37.7	39.1	38.9	38.8	38.1	37.8	37.5	37.2	36.7	36.5	36.5
14	35.8	36.0	35.3	35.4	36.5	36.9	38.2	38.3	38.3	38.0	37.1	35.7	35.2	35.8	36.4
15	36.5	35.5	34.8	35.3	36.5	38.0	38.3	38.4	38.4	38.3	37.6	36.6	36.2	35.6	36.7
16	36.6	36.2	35.3	35.9	36.8	37.7	38.4	39.4	39.4	39.1	38.4	37.5	36.7	35.6	35.3
17	36.7	35.6	35.2	35.5	36.5	38.3	39.3	39.5	39.3	38.3	38.3	37.2	37.1	36.9	36.8
18	36.4	35.4	34.4	35.1	35.8	36.8	38.1	38.1	38.3	38.6	38.1	36.8	36.5	36.7	36.8
19†	36.7	36.0	35.5	36.3	36.9	38.0	39.9	39.4	39.6	39.4	38.6	37.7	36.9	36.6	36.9
20†	36.8	36.2	35.6	36.6	37.6	38.6	39.8	40.8	40.8	39.8	39.0	38.2	36.9	36.8	36.9
21†	36.6	35.5	35.1	35.5	36.7	37.3	38.5	39.4	39.5	38.5	38.1	37.6	37.3	37.3	37.4
22†	37.0	36.6	35.9	36.3	37.1	37.8	38.7	39.8	39.7	38.5	37.4	37.0	37.0	37.0	37.1
23	37.0	36.3	35.6	36.5	37.8	39.2	41.0	41.2	40.5	39.3	38.5	37.4	37.2	37.4	37.8
24††	37.1	36.4	36.3	34.0	35.4	35.7	37.5	38.6	38.6	38.1	37.0	36.5	35.8	35.6	35.6
25	35.4	35.0	33.9	34.3	35.7	36.6	37.1	37.2	37.9	37.2	36.8	36.1	35.5	35.2	35.5
26	36.9	36.1	35.8	35.9	36.8	37.5	38.7	39.0	38.6	37.3	37.2	36.5	36.2	36.4	36.5
27	35.8	35.4	35.2	36.5	37.6	39.3	40.2	41.1	40.1	39.0	37.9	37.3	37.2	37.2	36.9
28††	33.5	31.6	29.3	32.3	34.4	37.2	39.3	39.7	38.8	37.0	34.5	34.1	34.2	34.2	34.9
29	35.9	35.9	35.5	36.2	38.6	38.6	39.3	40.0	38.8	38.4	37.2	37.2	35.9	36.3	37.2
30††	37.3	Δ	Δ	Δ	37.2	38.6	39.7	40.5	40.2	40.1	39.8	38.7	38.8	37.3	35.9
Mean	35.7	35.2	34.7	35.3	36.3	37.3	38.4	38.8	38.6	38.0	37.2	36.5	36.1	36.0	36.1
Meant†	36.6	36.0	35.4	36.1	37.0	37.6	39.1	39.6	39.6	38.7	37.9	37.3	36.8	36.8	36.9
Meant††	33.7	33.3	33.0	33.8	34.8	37.2	37.2	37.5	37.9	37.7	36.5	36.0	35.4	35.0	34.5

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

April										2° plus tabular quantities						Date
Hours G M T										Maximum		Minimum		Range		
Mean										Time	Mag	Time	Mag			
15	16	17	18	19	20	21	22	23		H. M.		H. M.				
31.9	30.8	31.4	33.3	31.8	32.2	31.4	33.2	31.9	33.9	08 22	41.5	00 07	26.3	15.2	1††	
35.6	35.6	35.6	35.3	35.2	34.9	35.0	35.0	35.4	35.4	06 36	39.2	01 00	31.8	7.4	2	
35.7	35.6	35.4	35.4	34.7	34.6	34.7	35.0	34.6	35.3	08 58	37.4	01 35	32.8	4.6	3††	
35.6	35.3	35.0	35.0	35.3	35.6	35.7	35.7	35.9	35.8	07 08	38.4	04 07	34.0	4.4	4	
Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	5	
35.6	35.7	36.0	36.0	36.0	36.0	35.9	35.6	35.6	35.9	07 20	39.1	02 30	33.8	5.3	6	
36.0	35.7	35.3	34.6	34.3	34.9	35.7	36.0	35.9	35.7	07 16	38.1	03 15	33.6	4.5	7	
36.0	36.0	35.6	35.7	35.9	35.9	35.7	35.9	36.0	35.8	06 16	38.8	01 50	33.3	5.5	8	
36.1	36.1	36.1	36.1	36.0	36.0	36.0	36.1	36.1	36.4	07 00	38.6	01 45	34.7	3.9	9†	
36.2	36.2	36.2	36.1	36.2	36.1	35.4	35.4	35.4	36.6	06 47	40.4	13 08	34.9	5.5	10	
36.3	36.2	36.0	35.9	35.9	35.7	36.0	36.3	36.6	36.1	07 00	37.7	02 00	34.4	3.3	11	
36.3	36.1	36.0	35.8	35.7	35.8	35.7	35.8	36.1	36.6	06 45	40.5	13 20	35.0	5.5	12	
36.5	36.5	36.3	36.1	36.0	36.0	35.7	35.7	35.7	36.7	05 45	39.8	01 25	34.9	4.9	13	
36.5	36.5	36.5	36.5	36.4	36.4	36.4	36.5	36.6	36.6	07 22	38.5	11 40	35.1	3.4	14	
36.9	36.6	36.6	36.6	36.6	36.5	36.5	36.5	36.5	36.8	07 15	39.5	02 07	34.5	5.0	15	
35.0	34.6	35.0	35.3	35.4	35.6	36.0	36.3	36.6	36.6	07 00	39.4	15 15	34.5	4.9	16	
37.1	36.9	36.8	36.1	35.5	35.4	35.5	35.5	36.0	36.9	06 35	39.6	02 00	35.2	4.4	17	
36.5	36.1	36.2	36.2	36.0	36.4	36.4	36.5	36.7	36.6	07 48	38.8	01 33	34.3	4.5	18	
36.9	36.9	36.9	36.8	36.6	36.6	36.6	36.8	36.8	37.3	08 00	39.6	02 00	35.5	4.1	19†	
37.0	37.0	36.9	36.9	36.9	36.8	36.8	36.9	36.9	37.6	07 35	41.1	02 00	35.6	5.5	20†	
37.6	37.6	37.4	37.1	37.0	37.0	37.0	37.0	37.0	37.3	07 30	39.7	01 52	34.7	5.0	21†	
37.3	37.1	37.1	37.0	37.1	37.0	37.0	37.1	37.0	37.4	07 00	39.8	01 55	35.7	4.1	22†	
37.9	37.8	37.8	37.2	37.2	37.4	37.4	37.2	37.1	37.9	06 12	41.3	02 00	35.5	5.8	23	
35.7	35.7	35.7	35.4	35.0	34.6	35.0	35.6	35.7	36.1	07 12	39.1	03 00	33.3	5.8	24††	
35.8	35.5	35.5	35.5	35.1	35.2	35.7	35.8	36.4	35.8	07 52	38.3	01 10	33.2	5.1	25	
36.1	35.8	35.8	35.8	35.7	35.4	35.7	35.8	35.9	36.6	06 40	39.3	20 00	35.4	3.9	26	
36.9	36.3	36.3	35.9	35.9	35.8	34.1	33.1	33.1	36.8	06 35	41.4	23 00	32.8	8.6	27	
35.6	35.2	35.1	34.6	34.8	35.8	35.8	35.9	35.8	35.2	06 35	40.2	02 00	28.9	11.3	28††	
37.3	37.3	37.2	37.3	37.0	36.7	36.9	36.7	36.7	37.3	06 50	40.1	01 48	35.3	4.8	29	
34.9	36.2	34.2	34.1	31.8	31.7	31.6	32.7	33.1	Δ	Δ	Δ	Δ	Δ	Δ	30††	
36.2	36.1	36.0	35.9	35.7	35.8	35.8	35.9	35.9	36.4					5.4	Mean	
37.0	36.9	36.9	36.8	36.7	36.7	36.7	36.8	36.8							Mean†	
34.7	34.3	34.4	34.7	34.1	34.3	34.2	34.9	34.5							Mean††	

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

May

2° plus tabular quantities

Date	Hours G. M. T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1††	33.1	32.8	33.9	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
2	36.6	36.0	35.9	36.6	38.0	39.8	41.2	41.6	41.5	40.7	40.1	38.7	37.4	36.7	37.0
3	37.3	37.1	36.4	36.0	35.9	36.2	37.4	38.4	38.1	37.4	37.3	37.2	37.3	37.2	37.2
4†	37.4	37.2	37.2	37.6	38.8	40.1	40.7	40.1	39.1	38.3	37.4	37.3	37.3	37.4	38.0
5	37.7	36.9	36.2	37.0	38.6	39.5	40.1	40.1	39.3	38.7	38.7	38.6	37.9	37.6	38.0
6††	37.4	Δ	Δ	Δ	39.7	40.2	41.4	41.5	41.8	41.4	40.1	38.7	37.6	37.3	37.3
7††	36.6	35.9	36.0	36.3	37.3	39.4	40.5	41.6	42.2	41.5	39.7	38.6	38.7	38.4	37.2
8††	37.0	36.0	35.9	36.6	37.3	37.4	39.7	39.7	39.3	38.7	34.8	37.2	38.3	36.8	35.8
9	35.5	35.3	35.9	37.0	37.3	38.6	39.3	39.3	38.7	38.6	37.9	37.3	36.2	35.9	36.6
10	37.2	36.0	36.3	37.4	38.8	40.2	41.4	41.2	40.1	39.3	38.5	37.3	36.7	36.7	37.3
11	37.2	36.6	36.6	37.7	39.4	40.7	40.4	39.7	37.3	35.8	36.5	35.9	36.5	37.3	38.0
12	37.0	36.6	36.6	37.2	39.0	40.1	40.5	41.2	40.5	39.4	38.0	36.9	36.7	36.7	37.4
13	36.9	34.8	34.6	35.3	37.3	39.3	42.8	42.5	41.1	40.1	39.4	38.6	38.1	37.3	37.4
14	37.2	36.0	35.9	36.9	38.8	40.9	41.4	41.5	40.5	39.5	38.6	38.0	37.4	37.2	37.7
15	37.7	37.0	36.5	37.2	38.3	39.7	41.1	41.8	41.5	41.2	40.1	38.7	37.6	37.2	37.6
16	37.4	36.9	35.9	36.3	37.6	39.7	40.7	41.4	40.7	40.1	38.7	38.3	38.3	38.6	39.7
17	37.3	37.0	36.5	37.3	38.3	39.3	40.0	40.4	39.8	39.3	38.3	37.3	37.4	38.3	38.6
18†	37.7	37.2	37.2	37.7	38.7	40.0	40.7	41.1	40.4	39.5	38.8	38.3	38.6	38.4	38.4
19†	38.1	37.3	36.6	37.6	39.5	40.7	40.5	40.9	40.2	39.1	38.0	37.4	37.4	38.1	38.6
20†	38.6	37.4	36.9	37.0	38.3	40.1	41.6	42.8	41.5	39.7	38.4	37.3	37.4	38.0	38.6
21	38.6	37.7	37.3	37.3	38.6	40.0	40.5	40.7	39.8	38.7	37.4	37.0	37.3	37.9	38.4
22†	38.3	37.7	37.4	38.2	38.6	40.0	41.3	41.3	41.2	40.9	40.0	38.8	38.1	37.9	38.4
23	38.2	37.1	37.1	38.3	39.4	40.5	41.3	41.6	41.3	40.8	39.9	38.5	38.5	39.1	39.5
24	37.3	36.3	36.3	36.9	37.9	39.2	39.6	39.6	39.2	38.3	38.3	38.2	37.1	36.9	37.6
25	36.9	36.7	35.5	36.3	38.0	39.8	40.9	40.9	41.3	40.9	39.8	38.4	38.0	37.5	37.4
26	36.1	36.0	35.3	35.2	37.1	39.2	39.9	40.3	39.6	39.3	38.6	37.8	37.3	37.3	37.6
27	35.9	35.0	33.8	34.0	35.6	37.8	39.1	39.5	39.2	38.4	38.1	37.8	37.4	36.8	37.2
28	36.3	35.6	35.3	36.3	37.6	39.0	39.8	40.0	39.3	39.0	37.9	37.5	37.5	37.2	37.5
29††	36.1	35.2	34.8	35.1	36.5	38.5	39.7	40.0	39.7	38.6	37.8	36.8	36.4	37.1	37.6
30	37.1	36.2	36.1	36.0	37.2	38.1	39.1	40.0	39.8	38.6	37.6	36.5	35.2	34.6	35.3
31	37.2	35.9	35.6	36.1	37.0	38.2	38.8	39.8	39.9	39.6	39.6	38.6	37.9	37.8	38.4
Mean	37.2	36.4	36.1	36.7	38.0	39.4	40.4	40.7	40.1	39.3	38.4	37.8	37.4	37.4	37.7
Mean†	38.0	37.4	37.1	37.6	38.8	40.2	41.0	41.2	40.5	39.5	38.5	37.8	37.8	38.0	38.4
Mean††	36.6	35.7	35.6	36.0	37.0	38.4	40.0	40.4	40.4	39.6	37.4	37.5	37.8	37.4	36.9

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

May										2° plus tabular quantities				Date	
Hours G. M. T.										Maximum		Minimum			Range
15	16	17	18	19	20	21	22	23	Mean	Time	Mag.	Time	Mag.		
										H. M.		H. M.			
Δ	Δ	Δ	Δ	36.3	36.3	36.7	36.7	36.7	Δ	Δ	Δ	Δ	Δ	Δ	1††
37.3	37.3	37.2	37.2	37.0	37.2	37.2	37.2	37.2	38.0	07 07	41.8	01 45	35.8	6.0	2
37.3	37.6	37.6	37.6	37.4	37.4	37.6	37.3	37.4	37.2	06 52	38.6	03 45	35.8	2.8	3
38.1	38.1	38.1	38.1	38.0	37.9	37.7	37.7	37.7	38.1	06 30	40.8	01 10	37.0	3.8	4†
38.3	38.4	38.1	38.0	37.9	37.6	37.4	37.4	37.3	38.1	06 25	40.4	01 25	35.9	4.5	5
37.6	37.4	37.3	37.3	36.7	36.3	36.6	37.0	36.2	Δ	Δ	Δ	Δ	Δ	Δ	6††
37.4	37.4	37.2	37.2	37.2	37.3	36.6	36.9	36.9	38.1	07 36	42.6	00 50	35.6	7.0	7††
35.5	36.4	36.4	36.4	35.5	35.5	34.9	35.2	35.8	36.8	06 10	40.1	10 02	33.6	6.7	8††
37.2	37.3	37.3	37.4	37.3	37.3	37.3	37.3	37.4	37.3	05 07	40.1	01 00	35.3	4.8	9
37.3	37.3	37.3	37.6	37.6	37.7	37.4	37.4	37.3	38.0	06 30	41.5	01 25	35.9	5.6	10
37.9	37.9	37.7	37.4	37.3	37.2	37.2	37.0	37.3	37.6	05 36	41.5	08 54	35.1	6.4	11
37.7	37.7	37.3	37.3	37.3	37.3	37.3	37.3	37.2	37.9	07 25	41.5	01 30	36.2	5.3	12
37.7	37.7	37.6	37.7	37.7	37.6	37.7	37.4	37.3	38.1	05 42	43.3	01 45	34.5	8.8	13
38.1	38.1	37.9	37.9	38.0	37.9	37.7	38.0	37.7	38.3	06 40	42.1	01 45	35.8	6.3	14
38.1	38.0	37.9	38.0	38.0	38.0	37.7	38.1	37.9	38.5	06 50	41.9	02 00	36.5	5.4	15
40.0	39.1	39.0	38.3	38.6	38.6	38.3	37.6	37.9	38.7	06 45	41.5	02 00	35.9	5.6	16
38.7	38.6	38.1	38.1	38.3	38.3	38.1	38.1	38.3	38.3	06 30	41.5	02 00	36.5	5.0	17
38.6	38.6	38.6	38.6	38.7	38.4	38.6	38.6	38.4	38.7	06 40	41.2	01 30	37.0	4.2	18†
38.7	38.7	38.7	38.7	38.8	38.8	39.1	39.0	38.7	04 50	41.1	02 10	36.3	4.8	19†	
38.7	38.6	38.7	38.7	38.6	38.7	38.7	38.7	38.7	38.8	07 00	42.8	02 20	36.7	6.1	20†
38.7	38.7	38.7	38.6	38.7	38.6	38.4	38.4	38.6	38.5	06 15	40.8	02 00	37.3	3.5	21
38.9	39.1	38.9	38.5	38.5	38.5	38.4	38.4	38.4	39.0	06 00	41.3	01 45	37.3	4.0	22†
38.8	38.7	38.4	38.3	37.4	37.8	37.4	37.8	37.8	38.9	07 15	42.0	01 05	36.3	5.7	23
37.9	37.9	38.1	37.9	37.4	37.6	37.6	36.9	37.1	37.8	06 16	40.7	01 00	36.3	4.4	24
37.5	37.5	37.1	37.0	37.4	37.0	36.8	36.7	36.6	38.0	08 00	41.3	02 35	35.4	5.9	25
37.9	37.8	37.2	37.3	37.3	36.9	36.9	36.5	36.4	37.5	07 15	40.4	02 00	35.0	5.4	26
37.4	37.4	37.4	37.0	36.8	36.8	36.7	36.4	36.3	37.0	06 46	39.6	02 46	33.6	6.0	27
37.6	37.5	37.5	37.3	37.0	37.2	37.2	36.6	36.6	37.5	06 45	40.1	01 20	35.0	5.1	28
37.6	37.6	37.4	37.5	37.2	37.2	37.1	36.7	36.9	37.3	06 30	40.7	02 43	34.7	6.0	29††
35.3	35.8	36.2	37.0	37.3	37.3	37.4	37.3	37.3	37.0	06 50	40.1	12 50	34.5	5.6	30
38.4	37.9	37.5	37.2	37.1	37.0	36.5	37.0	36.5	37.7	08 00	40.0	01 30	35.5	4.5	31
37.9 37.9 37.8 37.7 37.6 37.6 37.5 37.4 37.4 38.0														5.3	Mean
38.6 38.6 38.6 38.5 38.5 38.5 38.4 38.5 38.4															Mean†
36.8 37.1 37.0 37.0 36.6 36.7 36.2 36.3 36.5															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)

June	Date	Hours G M T														
		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	1	35.8	35.3	34.9	35.0	35.0	35.0	37.1	38.5	38.8	39.6	38.4	36.5	35.6	35.6	36.1
	2†	36.4	35.4	34.4	34.4	35.3	36.3	37.4	38.5	38.5	38.6	38.6	38.5	37.7	37.1	37.1
	3	37.0	36.4	35.6	35.8	37.1	38.5	39.4	40.4	40.1	38.9	37.6	37.2	37.2	37.3	38.0
	4††	36.4	35.7	34.7	34.5	35.5	36.2	37.1	38.0	37.2	37.2	37.2	37.3	37.2	37.3	37.3
	5	36.1	35.9	35.4	34.8	34.5	35.8	36.6	37.2	37.2	37.2	36.5	35.4	34.7	35.0	35.9
	6	35.9	35.4	34.8	34.5	35.7	37.1	38.2	38.5	39.3	38.7	38.0	37.3	37.1	36.8	37.1
	7	36.9	36.2	35.4	35.1	36.2	37.3	38.6	39.7	38.9	38.6	38.3	37.6	37.5	37.3	37.1
	8	37.1	35.9	35.5	36.3	37.3	37.4	38.6	38.7	38.0	37.3	37.6	37.3	37.7	38.3	38.0
	9	37.3	35.8	34.5	35.2	36.0	36.7	37.4	38.6	38.8	38.7	38.3	37.2	36.9	36.3	36.3
	10†	36.7	36.0	36.0	37.7	38.8	40.2	41.4	41.8	40.8	40.0	39.8	37.3	36.6	36.3	36.9
	11†	36.3	35.8	35.5	35.9	37.4	39.5	41.5	42.6	42.1	40.8	39.7	38.3	37.4	37.3	37.4
	12†	37.2	35.6	34.5	35.1	37.3	40.2	41.9	42.5	42.5	41.6	40.2	39.1	38.6	38.0	38.3
	13	37.2	36.3	35.8	36.0	37.1	38.8	40.2	40.6	40.5	39.8	39.1	38.2	38.0	37.8	38.1
	14	37.4	36.4	36.1	37.0	37.5	38.8	39.9	39.9	39.2	38.7	38.1	37.4	36.7	36.0	36.1
	15	37.4	36.4	35.6	34.9	35.9	37.3	38.7	39.6	39.5	38.5	37.5	37.1	36.8	36.3	37.1
	16†	37.0	35.9	35.6	36.4	37.8	39.3	40.2	40.2	39.7	39.3	38.9	38.9	38.5	37.8	37.8
	17	37.5	37.4	37.1	37.6	38.4	40.0	40.4	41.2	40.7	40.1	38.7	37.6	37.3	37.3	37.7
	18	37.6	36.9	36.2	37.1	37.9	39.1	40.0	40.6	39.3	38.8	37.8	37.8	37.8	37.5	37.8
	19	37.7	36.4	35.4	35.8	36.9	38.0	39.0	39.2	39.0	38.2	37.8	37.1	37.3	37.9	37.9
	20	37.3	36.5	36.2	36.5	37.3	38.1	39.4	40.0	40.4	39.5	39.1	38.0	37.6	37.6	38.0
	21	37.9	36.9	36.2	36.0	36.7	38.0	39.3	41.4	40.8	39.5	38.6	37.9	37.4	38.0	39.0
	22	36.6	35.8	34.5	34.2	35.3	36.9	38.1	39.4	40.1	39.5	39.0	38.3	38.1	38.3	39.7
	23	36.9	36.3	35.9	36.7	36.6	39.3	39.5	40.7	40.7	39.7	38.8	38.4	38.4	38.4	38.8
	24	36.7	36.2	35.9	36.5	37.9	39.4	40.8	41.2	41.4	40.9	39.5	38.1	37.3	37.9	39.3
	25	37.3	36.3	35.5	35.8	37.9	39.7	40.9	41.4	41.4	41.3	39.8	39.4	38.8	38.1	38.4
	26	37.0	35.5	34.8	35.2	37.3	38.8	39.4	39.5	39.5	38.8	38.0	37.7	37.4	38.0	38.4
	27††	37.4	36.2	35.3	35.8	36.5	37.2	38.0	39.4	39.5	39.8	39.4	39.1	38.6	38.3	38.3
	28††	37.0	36.3	35.5	35.3	36.5	38.0	40.7	41.8	42.1	42.2	40.9	40.4	39.4	39.3	39.0
	29††	36.7	36.5	36.3	36.7	38.7	40.7	40.4	41.5	40.9	40.9	40.8	40.0	39.4	39.1	39.3
	30††	36.7	36.3	35.1	34.2	34.4	36.6	39.0	40.8	41.5	41.3	40.8	39.4	38.7	38.3	38.3
	Mean	36.9	36.1	35.5	35.7	36.8	38.1	39.3	40.1	39.9	39.5	38.8	38.0	37.6	37.5	37.8
	Mean†	36.7	35.7	35.2	35.9	37.3	39.1	40.5	41.1	40.7	40.1	39.8	38.4	37.8	37.3	37.5
	Mean††	36.8	36.2	35.4	35.3	36.3	37.7	39.0	40.3	40.2	40.4	39.8	39.2	38.7	38.5	38.4

† 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

June

2° plus tabular quantities

Hours G. M. T.										Maximum		Minimum		Range	Date		
15	16	17	18	19	20	21	22	23	Mean		Time	Mag.	Time	Mag.			
										H	M	H.	M				
37.2	37.7	37.5	37.5	37.2	37.1	37.0	37.0	36.8	36.7	09	02	40	02	25	34.6	5.4	1
37.1	37.4	37.4	37.4	37.1	37.1	37.1	37.1	37.1	37.0	09	00	38.6	02	00	34.4	4.2	2†
38.0	37.9	37.8	37.2	36.9	36.8	36.8	36.8	36.9	37.6	07	30	40	02	25	35.1	5.5	3
37.5	37.3	37.1	37.1	37.1	36.8	36.9	36.5	36.2	36.7	09	10	38	02	50	34.3	4.3	4††
36.5	36.5	36.4	36.5	36.6	36.9	36.8	36.6	36.5	36.1	07	10	37	03	15	34.4	3.1	5
37.2	37.1	37.1	37.1	37.1	37.2	37.2	37.2	37.2	37.0	07	45	39.6	02	45	34.4	5.2	6
37.2	37.6	39.2	37.6	37.5	37.2	37.6	37.2	37.2	37.5	07	00	39	02	36	35.0	4.7	7
38.1	38.0	37.7	37.7	37.6	37.4	37.3	37.7	37.4	37.5	06	22	38	01	30	35.4	3.4	8
36.9	36.9	37.2	37.0	37.0	37.2	37.0	37.2	37.0	37.0	08	03	39	01	54	34.4	5.0	9
37.0	37.2	37.3	37.2	37.3	37.2	37.0	37.0	36.9	37.9	06	36	41	01	35	35.9	6.0	10†
37.9	37.6	37.6	37.4	37.6	37.4	37.4	37.6	37.4	38.1	07	00	42.8	01	30	35.3	7.5	11†
38.4	38.4	38.3	37.7	37.4	37.3	37.3	37.4	37.6	38.4	07	30	42	02	00	34.5	8.3	12†
38.2	38.1	38.1	38.0	38.0	37.8	37.8	37.7	37.8	38.1	07	00	40	02	35	35.6	5.0	13
37.4	37.5	37.5	37.4	37.4	37.4	37.4	37.4	37.4	37.6	05	55	40.1	13	25	35.7	4.4	14
37.5	37.7	37.7	37.7	37.5	37.3	37.3	37.4	37.4	37.3	06	50	39.8	02	55	34.7	5.1	15
37.9	37.9	37.9	37.8	37.8	37.8	37.6	37.8	37.8	38.1	06	00	40	02	00	35.6	4.6	16†
38.0	37.9	37.7	37.7	37.6	37.6	37.6	37.7	37.6	38.3	07	20	41	01	30	36.8	4.7	17
37.9	38.2	38.4	38.4	37.9	37.7	37.8	37.8	37.8	38.1	07	00	40.7	02	00	36.2	4.5	18
37.9	37.9	37.9	37.8	37.9	37.6	37.8	37.8	37.8	37.7	06	27	39.3	02	00	35.4	3.9	19
38.3	38.1	38.1	38.1	38.3	38.1	38.3	38.0	38.1	38.1	08	00	40	02	25	36.1	4.3	20
38.8	38.1	38.0	37.7	37.7	37.6	37.3	36.6	36.6	38.0	07	00	41	02	20	35.9	5.5	21
39.0	38.7	38.4	38.4	38.1	37.9	37.7	37.9	37.3	37.8	07	50	40.4	02	55	33.9	6.5	22
39.1	38.8	38.1	38.0	37.9	37.7	37.6	37.4	37.0	38.2	07	25	40.8	01	36	35.6	5.2	23
39.4	39.0	38.8	38.4	38.1	38.4	38.0	37.9	37.7	38.5	07	35	41.5	01	25	35.6	5.9	24
38.7	38.6	39.0	38.8	38.0	38.0	38.0	37.6	37.6	38.6	07	10	41.9	02	03	35.2	6.7	25
38.8	38.7	38.4	38.3	38.0	37.9	37.7	37.7	37.7	37.9	06	05	39.7	02	25	34.2	5.5	26
38.4	38.3	38.3	38.0	37.6	37.6	37.0	36.9	37.3	37.8	08	25	40.1	01	48	35.2	4.9	27††
38.8	39.1	38.3	38.0	38.4	38.1	37.9	37.9	37.7	38.7	08	23	43.3	03	00	35.2	8.1	28††
39.3	39.1	39.1	39.3	39.3	39.3	39.3	39.3	39.3	37.7	07	00	42.2	01	55	36.0	6.2	29††
38.7	39.8	38.0	38.1	38.1	38.1	37.6	37.9	38.0	38.2	07	39	42.1	02	42	33.8	8.3	30††
38.0	38.0	37.9	37.8	37.7	37.6	37.5	37.5	37.3	37.8						5.4		Mean
37.7	37.7	37.7	37.5	37.4	37.4	37.3	37.4	37.4									Mean†
38.5	38.7	38.2	38.1	38.1	38.0	37.7	37.7	37.4									Mean††

† Five International quiet days.  
†† Five International disturbed days.  
Δ Loss of record, (day omitted for means).

TABLE 7  
Hourly Values of Horizontal Force, 1960

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

January	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†	527	537	551	582	624	636	634	617	587	570	555	547	546	539	532
	2†	524	531	552	576	611	639	626	634	600	567	560	557	547	537	533
	3	515	513	516	551	602	636	652	637	619	593	571	572	563	544	528
	4	523	540	547	562	602	604	619	629	613	601	573	563	560	551	540
	5	544	542	556	583	574	586	615	619	620	582	549	525	485	447	453
	6	509	507	506	521	536	566	585	580	574	561	548	542	534	527	521
	7	521	518	522	537	566	602	638	608	571	566	570	558	547	542	536
	8	522	518	515	517	525	559	590	616	618	606	596	585	565	547	543
	9†	537	532	529	533	545	595	624	632	624	606	591	578	569	557	551
	10††	539	548	556	562	573	616	629	662	566	551	495	477	469	460	442
	11††	483	498	524	547	551	544	538	533	535	508	491	503	508	482	474
	12	502	509	531	552	575	580	586	575	542	529	529	530	526	510	503
	13	510	513	535	563	586	595	576	557	539	530	529	529	529	520	512
	14††	535	528	545	567	583	584	563	552	576	556	515	507	498	508	524
	15††	444	449	476	499	512	512	541	549	543	553	513	502	490	490	487
	16	496	505	533	557	587	615	620	599	555	515	504	512	519	516	508
	17	515	517	527	568	634	655	637	619	578	551	540	548	544	566	547
	18	547	546	562	609	649	681	666	686	669	555	483	458	468	501	523
	19	506	511	519	541	573	607	614	611	590	565	541	541	541	528	520
	20	534	539	553	590	646	673	646	634	630	611	573	545	536	536	542
	21††	540	523	493	504	518	579	645	653	598	574	553	519	492	494	484
	22	486	483	485	505	523	547	586	578	569	534	527	510	522	506	503
	23	Δ	Δ	Δ	Δ	549	576	593	581	582	573	558	546	526	509	501
	24	515	509	509	518	536	545	567	589	601	596	572	548	538	521	520
	25	522	518	526	550	571	610	624	627	619	605	582	563	549	538	529
	26	526	535	547	574	595	610	621	601	605	578	561	560	556	540	534
	27	523	525	545	564	607	620	628	618	605	590	574	565	556	546	539
	28	526	537	567	600	627	636	627	607	549	548	543	549	556	551	539
	29	542	546	582	630	664	678	670	648	610	565	558	551	548	552	544
	30†	535	545	576	630	676	680	678	667	633	581	555	552	559	557	549
	31†	535	537	568	619	658	676	669	637	609	590	575	578	579	571	562
	Mean	520	523	537	562	590	611	618	614	592	569	548	540	534	527	521
	Mean†	532	536	555	588	624	645	646	637	611	583	567	562	560	552	545
	Mean††	508	509	519	536	547	567	583	590	564	548	513	502	491	487	482

† Five International quiet days.  
 †† Five International disturbed days.  
 Δ Loss of record; (day omitted for means).

TABLE 7  
Hourly Values of Horizontal Force, 1960

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

January										39,000γ plus tabular quantities										Date
Hours G. M. T.										Maximum		Minimum		Range						
										Mean										
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.							
530	529	529	530	529	526	525	525	524	555	06	00	646	23	56	522	124	1†			
535	530	528	526	526	526	527	525	519	556	05	58	655	23	56	514	141	2†			
516	513	517	521	526	528	531	529	525	555	06	15	657	01	14	510	147	3			
537	534	537	540	538	540	540	539	543	561	07	06	633	00	02	522	111	4			
455	474	489	490	505	505	510	508	510	530	07	44	632	13	05	440	192	5			
513	514	518	513	518	517	518	518	521	532	06	02	592	01	19	492	100	6			
535	535	534	520	520	544	546	546	546	551	06	06	650	01	22	514	136	7			
540	542	538	536	532	528	536	537	539	552	07	30	627	02	30	511	116	8			
547	544	540	539	539	539	542	537	535	561	06	40	635	02	32	525	110	9†			
428	436	442	460	462	481	494	479	479	513	07	41	696	14	45	416	280	10††			
487	473	483	484	487	495	494	498	500	505	03	28	572	13	40	460	112	11††			
521	508	501	506	510	504	521	520	512	528	06	45	596	17	30	499	97	12			
508	501	503	510	541	534	526	520	535	533	05	10	600	16	12	500	100	13			
512	511	518	520	502	465	451	455	434	521	08	23	646	23	08	429	217	14††			
477	476	475	472	479	487	483	487	491	495	07	06	566	00	36	441	125	15††			
509	508	506	512	510	511	510	516	513	531	04	45	628	00	01	495	133	16			
531	522	521	530	531	533	536	541	544	556	04	54	657	00	25	514	143	17			
514	502	502	506	501	501	506	512	507	548	07	35	730	11	00	450	280	18			
521	515	521	530	524	527	527	533	536	543	05	32	620	00	26	504	116	19			
528	500	495	502	514	521	518	518	531	559	05	15	694	16	59	483	211	20			
479	475	488	466	468	492	487	486	489	521	06	59	666	19	14	455	211	21††			
501	492	499	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	22			
499	500	511	514	505	511	515	516	518	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	23			
514	511	514	521	516	517	522	524	522	535	07	38	607	02	22	497	110	24			
529	525	523	533	528	525	525	525	525	553	06	48	636	01	18	514	122	25			
534	532	525	524	529	529	527	524	525	554	06	10	630	17	30	520	110	26			
537	538	535	534	533	531	530	529	525	558	05	36	633	01	30	520	113	27			
537	534	534	535	536	549	545	543	541	559	05	15	642	00	02	526	116	28			
535	531	531	531	532	536	535	530	532	570	07	02	693	17	30	528	165	29			
546	545	543	542	542	541	539	537	536	577	05	26	690	00	10	534	156	30†			
554	547	545	542	543	543	542	546	548	578	05	22	692	00	10	534	158	31†			
518	514	515	516	518	520	521	520	520	545							147	Mean			
542	539	537	536	536	535	535	534	532							Mean†					
477	474	481	480	480	484	482	481	479							Mean††					

† 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)

February

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	549	552	579	625	672	698	704	686	654	605	570	532	515	510	509
2	536	532	534	573	608	636	666	656	628	605	586	571	565	559	547
3	504	505	520	555	589	611	620	616	607	575	549	528	515	502	508
4	504	500	498	531	580	624	618	645	617	575	548	532	529	522	519
5	520	517	523	542	569	593	619	637	617	588	601	562	508	500	493
6	498	504	511	531	557	575	583	589	584	561	555	546	536	523	514
7†	535	538	551	577	602	607	633	650	647	630	607	587	562	547	540
8	540	539	548	563	583	616	636	641	630	607	574	563	542	544	539
9†	534	537	549	567	587	613	632	642	639	627	612	596	585	574	564
10†	564	572	590	613	636	651	624	630	579	570	565	562	555	544	538
11	536	542	560	583	605	623	635	637	625	606	593	578	564	550	540
12	509	509	527	548	575	594	610	617	588	557	539	536	533	529	526
13	533	541	554	585	620	642	671	664	638	611	586	569	572	566	555
14††	471	481	496	518	549	571	570	569	563	556	547	545	493	477	471
15	499	497	500	503	542	577	593	595	578	563	556	550	540	525	495
16††	514	518	534	560	573	597	601	585	565	562	585	570	548	537	516
17††	520	522	546	616	599	637	638	630	591	573	575	550	536	541	521
18††	514	502	492	495	535	550	570	556	537	544	530	525	509	502	502
19	510	515	530	553	583	625	632	628	618	595	572	554	534	527	522
20	497	492	488	484	518	528	553	570	570	558	543	535	527	516	509
21††	518	520	531	546	568	576	618	595	569	573	560	532	521	511	503
22	521	520	527	541	569	600	622	623	609	597	580	565	550	536	528
23	524	522	537	565	597	626	632	622	602	586	568	564	555	537	526
24†	526	528	515	570	600	634	649	637	622	608	591	571	554	543	533
25†	522	519	528	565	612	636	683	679	654	627	600	581	566	554	544
26	535	535	558	577	615	648	656	649	615	584	571	579	578	577	557
27	530	529	545	571	596	630	637	654	635	609	551	550	542	539	527
28	539	528	533	560	621	644	675	681	650	611	583	558	550	545	539
29	524	514	513	543	598	674	696	680	642	609	568	542	545	542	534
Mean	522	522	532	557	588	616	631	630	609	589	571	556	542	534	525
Mean†	536	539	547	578	607	632	644	648	628	612	595	579	564	552	544
Mean††	507	509	520	547	565	586	603	587	565	562	559	544	521	514	503

† 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)

February

39,000γ 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	γ	H. M.	γ	H. M.	γ	γ	
314	516	517	521	527	533	540	540	537	571	06 03	710	13 30	505	205	1
520	513	486	475	439	471	492	492	500	550	06 00	670	19 10	431	239	2
497	491	480	474	489	502	501	501	497	531	05 50	627	17 58	471	156	3
517	512	511	503	497	513	511	518	517	539	06 50	664	18 52	487	177	4
491	471	468	480	488	487	491	499	502	532	07 18	656	16 23	458	198	5
309	500	485	491	503	508	514	519	532	530	07 40	604	16 36	475	129	6
539	537	536	535	535	537	536	541	543	569	07 02	662	18 52	532	130	7†
535	532	532	519	525	529	532	533	535	560	06 28	656	17 58	515	141	8
558	559	557	551	546	543	549	555	557	576	07 00	645	00 20	531	114	9†
534	530	527	526	525	528	533	535	537	565	05 20	661	18 45	524	137	10†
536	526	512	498	497	503	498	500	511	557	06 56	644	18 38	489	155	11
527	527	526	527	527	527	527	529	529	543	07 00	626	00 30	504	122	12
550	542	537	535	533	515	488	484	467	565	06 22	678	23 38	461	217	13
462	471	482	474	473	507	510	504	501	511	05 15	576	14 58	458	118	14††
477	480	500	495	487	499	509	515	518	525	07 02	603	15 28	474	129	15
467	484	492	500	508	519	513	513	519	537	05 43	606	14 56	463	143	16††
502	512	499	480	481	486	494	514	516	546	06 18	689	18 00	474	215	17††
503	489	490	499	503	504	508	508	507	516	06 06	616	02 25	481	135	18††
513	504	505	530	502	488	517	511	499	544	06 25	659	20 08	479	180	19
504	501	508	504	510	513	513	512	516	520	06 45	583	03 10	473	110	20
502	499	521	513	512	519	526	523	522	537	05 59	632	15 45	497	135	21††
526	522	522	521	521	524	526	529	526	550	06 30	632	19 48	516	116	22
518	516	524	515	514	519	520	523	525	552	06 23	646	18 20	511	135	23
532	531	528	526	526	526	524	524	525	559	05 12	653	21 10	522	131	24†
542	538	537	537	534	527	518	528	536	570	06 22	693	00 58	518	175	25†
548	541	533	536	534	533	535	537	533	569	05 26	658	17 15	526	132	26
537	522	510	521	527	523	527	532	541	558	06 53	686	17 20	507	179	27
538	559	559	557	558	559	562	562	562	576	06 58	687	01 24	526	161	28
517	511	518	514	520	516	507	502	513	556	06 20	702	21 32	499	203	29
518	515	514	513	512	516	518	520	521	549				156		Mean
541	539	537	535	533	532	532	537	540							Mean†
487	491	497	493	495	507	510	512	513							Mean††

† 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)

March

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	515	516	523	549	587	634	641	650	638	582	554	541	532	520	518
2††	495	493	501	518	567	594	596	599	598	552	543	538	517	499	495
3††	511	502	513	532	547	563	585	570	556	544	516	526	517	512	484
4	513	514	525	547	580	596	616	615	601	580	566	548	528	501	491
5	513	511	522	549	579	600	621	608	571	552	551	550	549	531	517
6	518	532	548	594	539	664	694	689	668	625	583	567	555	543	531
7†	521	520	533	540	592	629	647	655	647	628	604	580	566	555	544
8	545	547	561	591	518	673	695	685	665	644	601	555	523	507	501
9	542	546	533	570	583	608	624	614	627	616	603	576	563	548	543
10	540	543	555	581	614	636	662	660	638	589	517	528	534	527	523
11††	527	528	550	587	619	653	632	623	595	557	555	520	507	506	496
12	500	505	531	569	607	637	650	625	596	564	550	544	540	531	526
13†	518	517	532	573	624	667	685	677	655	619	582	558	547	538	532
14	530	532	549	583	622	660	680	678	651	619	575	555	557	552	544
15	559	553	552	573	614	651	678	675	661	624	590	570	560	555	543
16††	472	451	436	466	465	497	491	472	508	508	508	498	480	463	472
17	488	486	491	529	546	587	604	587	569	544	537	522	509	506	496
18	505	506	520	563	602	624	629	623	600	572	558	551	537	524	519
19	523	522	520	544	552	631	668	679	656	628	579	550	529	513	507
20†	525	524	534	565	595	625	635	631	613	592	573	565	560	549	539
21	533	532	536	556	589	618	628	610	590	572	570	570	558	536	520
22†	532	527	534	561	601	627	637	628	615	598	587	579	567	551	540
23†	533	536	545	574	615	658	671	651	618	592	577	571	564	553	544
24	545	540	558	599	635	667	685	670	627	595	573	567	562	553	546
25	521	524	553	596	644	673	685	650	617	573	554	546	544	539	533
26	526	533	554	596	637	663	661	627	582	543	528	552	563	559	541
27	540	540	558	510	673	705	705	677	633	586	563	545	549	553	545
28	530	527	540	578	625	677	704	681	646	605	564	525	525	539	536
29	521	499	510	545	591	635	658	694	632	547	539	538	539	535	526
30	515	510	501	531	605	689	698	698	665	611	548	536	545	539	532
31††	482	492	512	545	587	646	635	605	551	497	489	530	471	440	443
Mean	521	520	530	559	592	635	648	639	616	583	559	548	539	528	520
Mean†	526	525	536	558	605	641	655	648	630	606	585	571	561	549	540
Mean††	497	493	502	530	557	591	588	574	562	532	522	522	498	484	474

† 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)

March										39,000γ plus tabular quantities						Date
Hours G. M. T.										Maximum		Minimum		Range		
										Mean						
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.			
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	γ	
516	509	498	493	489	502	494	499	501	501	542 07 28	658	18 52	476	182		1
502	497	494	497	489	488	495	510	517	517	525 07 36	621	19 10	485	136		2††
459	473	488	492	497	497	503	505	509	509	517 06 27	592	15 22	455	137		3††
493	484	471	464	479	492	496	505	516	516	530 06 34	623	18 02	462	161		4
521	520	520	520	514	504	505	516	525	525	540 05 34	629	19 42	501	128		5
526	520	511	516	516	527	524	524	523	523	564 06 02	705	16 32	509	196		6
540	537	537	536	534	533	539	543	545	545	567 05 43	665	00 55	517	148		7†
491	482	488	502	508	517	523	529	530	530	558 05 54	702	15 28	476	226		8
529	530	531	527	529	541	541	547	547	547	563 05 30	639	15 08	522	117		9
513	504	501	492	499	517	517	518	525	525	551 06 08	679	18 13	487	192		10
505	505	484	486	484	493	496	499	496	496	538 05 14	665	17 20	479	186		11††
521	515	510	510	514	518	520	521	521	521	547 06 02	655	00 06	499	156		12
528	527	527	531	531	522	523	528	531	531	565 06 08	695	00 47	512	183		13†
550	549	529	530	525	530	532	530	537	537	571 06 04	689	00 40	528	161		14
523	505	479	463	464	479	474	477	468	468	554 06 30	688	18 50	462	226		15
487	471	470	474	439	480	479	472	488	477	05 15	606	06 18	393	213		16††
495	493	496	493	499	508	509	505	505	521	05 57	609	01 36	483	126		17
522	519	523	521	522	522	523	522	524	547	05 34	673	00 25	502	171		18
498	492	504	513	519	521	523	525	526	551	07 02	687	15 54	488	199		19
535	532	531	530	532	533	536	535	533	559	06 07	643	00 46	521	122		20†
520	525	525	525	527	528	531	532	532	553	05 45	642	14 15	516	126		21
538	537	535	534	533	535	535	535	534	563	06 22	651	00 48	525	126		22†
540	539	535	532	534	533	534	542	545	568	05 58	676	00 10	532	144		23†
546	528	522	519	534	530	528	537	534	571	05 55	702	20 34	514	188		24
532	530	530	529	524	526	529	530	527	563	06 04	696	01 30	518	178		25
540	539	534	537	540	540	540	539	540	563	05 40	691	09 45	519	172		26
540	537	534	533	534	535	534	534	533	571	05 26	720	23 59	529	191		27
528	506	484	498	501	514	526	527	516	558	05 40	710	16 52	478	232		28
518	518	516	519	518	519	518	518	519	549	07 22	733	00 40	495	238		29
521	509	481	476	466	464	459	467	578	548	06 31	709	21 18	452	257		30
448	412	250	334	361	411	403	371	337	471	05 03	663	17 18	248	415		31††
517	511	503	504	505	513	513	514	518	547				182		Mean	
536	534	533	533	533	531	533	537	538							Mean†	
480	472	445	457	454	474	475	471	469							Mean††	

† Five International quiet days.

†† Five International disturbed days.

Δ Loss 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)

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††	328	330	352	458	446	460	437	462	516	501	403	388	321	226	195
2	266	278	321	354	381	396	388	372	333	364	359	368	389	411	409
3††	471	462	426	488	502	534	470	381	375	439	462	458	454	433	430
4	434	435	456	506	544	576	595	593	563	515	489	482	475	470	466
5	468	475	503	591	665	626	613	614	619	560	514	504	484	483	475
6	468	468	482	518	574	595	602	595	551	516	503	508	510	499	490
7	475	476	501	525	580	588	603	594	561	534	521	519	516	507	494
8	462	467	487	521	540	575	594	542	514	487	470	465	471	482	476
9†	480	487	501	544	585	605	608	566	538	506	503	506	506	503	494
10	496	506	531	596	656	691	665	659	596	555	531	517	503	477	470
11	488	472	477	517	578	607	600	583	552	518	499	505	504	498	502
12	479	483	505	552	573	597	602	612	542	499	493	496	493	477	463
13	492	499	532	584	641	707	624	588	518	494	508	518	519	509	497
14	493	483	490	533	584	617	649	624	603	573	546	516	510	508	504
15	502	506	509	567	616	660	598	609	587	553	529	520	525	523	514
16	497	490	497	546	594	642	677	664	645	608	573	545	512	477	476
17	474	484	495	519	568	607	615	599	579	547	515	510	515	512	507
18	490	478	495	539	578	605	635	593	575	536	535	522	509	500	495
19†	501	502	518	547	587	619	630	620	598	580	561	547	537	527	518
20†	507	507	522	558	598	636	647	643	626	596	573	554	543	535	526
21†	514	514	534	572	610	642	651	645	619	589	572	565	562	552	541
22†	532	534	552	583	620	639	642	629	592	558	547	549	557	549	538
23	529	527	543	590	631	652	687	650	623	582	561	571	576	570	558
24††	460	430	396	360	481	502	559	570	539	497	478	466	456	441	437
25	449	434	452	471	532	581	581	529	538	474	461	442	430	420	416
26	469	469	492	520	559	583	606	584	558	506	481	515	487	489	477
27	475	487	504	544	587	619	618	595	566	533	505	498	499	499	486
28††	467	404	366	412	466	517	566	545	462	423	354	349	352	366	363
29	440	434	455	499	564	577	551	551	505	486	461	470	441	444	442
30††	463	467	477	487	499	559	544	546	508	496	516	523	522	459	398
Mean	469	466	479	520	565	594	595	579	550	521	501	497	489	478	466
Mean†	507	509	525	561	600	628	636	621	595	566	551	544	541	533	523
Mean††	438	419	403	441	479	514	515	501	480	471	458	436	421	385	347

† Five International quiet days.

†† Five International disturbed days.

Δ Loss 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)

April

39,000γ 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.	γ	γ			
115	—6	86	75	89	166	150	234	252	291	08	23	655	16	18	—73	728	1††
408	406	409	419	421	422	423	425	443	382	23	33	471	00	31	255	216	2
423	423	430	430	427	433	435	430	433	444	05	32	596	07	26	332	264	3††
461	454	461	443	462	460	456	477	473	489	05	54	611	00	46	433	178	4
468	466	450	448	451	461	466	464	453	513	04	15	733	17	03	442	291	5
480	482	499	493	493	482	477	476	473	510	05	47	638	00	47	464	174	6
491	470	465	429	420	438	447	461	470	504	06	10	624	18	42	395	229	7
474	473	480	481	484	481	482	482	479	495	06	12	621	09	30	457	164	8
492	490	491	492	492	495	497	502	500	516	05	44	632	00	01	479	153	9†
480	474	470	492	521	488	464	451	459	531	05	05	740	22	35	432	308	10
497	481	483	484	489	489	484	491	489	512	05	12	628	01	23	465	163	11
469	471	472	473	476	476	476	482	492	506	05	23	637	14	00	461	176	12
493	491	495	489	486	499	498	495	493	528	05	05	728	18	38	484	244	13
502	499	502	508	502	499	502	507	505	532	06	02	670	01	17	480	190	14
512	509	511	509	509	506	503	503	502	537	04	36	703	23	59	497	206	15
433	401	426	446	454	457	480	479	477	521	06	22	703	16	12	391	312	16
504	505	497	487	473	474	490	492	489	519	05	37	637	19	15	465	172	17
490	488	495	496	495	498	500	501	500	523	05	58	654	01	24	468	186	18
514	511	511	509	509	509	510	510	509	541	06	15	636	00	32	497	139	19†
523	521	518	515	516	516	517	516	516	551	06	04	655	00	34	504	151	20†
538	537	535	532	531	529	529	532	531	562	06	30	656	00	45	512	144	21†
532	525	526	527	526	528	530	530	529	557	05	22	651	15	58	523	128	22†
555	545	538	536	539	533	511	509	475	566	06	13	700	23	46	461	239	23
443	446	445	440	441	435	443	471	466	463	07	15	576	03	06	324	252	24††
438	417	443	444	434	443	449	463	468	467	04	34	611	13	55	406	205	25
474	467	457	458	459	460	465	469	469	499	06	08	612	17	30	455	157	26
483	478	479	480	476	488	461	437	457	511	04	58	624	22	35	432	192	27
351	335	339	340	357	412	433	431	432	410	06	35	601	15	42	327	274	28††
441	450	452	452	447	446	456	462	462	475	04	50	600	01	12	427	173	29
242	284	163	42	32	89	111	198	226	365	06	04	611	17	40	—86	697	30††
458	450	451	446	447	454	455	463	464	494						237		Mean
520	517	516	515	515	515	517	518	517									Mean†
315	296	293	265	269	307	314	353	362									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)

May

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††	255	288	360	401	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
2	428	427	437	488	514	552	573	568	560	540	500	471	465	460	458
3	496	486	499	525	535	550	572	578	579	560	540	526	507	494	489
4†	492	495	515	544	571	593	595	586	569	549	539	529	525	516	512
5	503	506	524	558	595	622	627	629	582	556	541	534	528	518	515
6††	506	526	540	566	622	632	666	646	611	582	559	517	487	455	447
7††	460	471	512	509	545	594	548	549	554	561	531	531	542	506	493
8††	472	485	504	505	582	639	647	634	596	576	406	469	467	397	330
9	467	480	489	530	542	556	568	532	519	498	512	502	485	471	460
10	479	493	510	539	574	599	508	598	573	538	525	513	503	495	490
11	500	500	524	571	609	671	607	575	516	448	472	506	508	493	481
12	488	493	515	555	595	609	593	589	572	546	516	486	486	484	488
13	495	505	526	567	609	658	765	697	642	597	546	526	523	520	511
14	494	491	514	562	615	652	649	650	622	575	527	514	507	503	501
15	507	509	515	542	583	615	641	649	630	600	566	531	498	491	494
16	501	506	519	548	592	629	638	640	631	601	557	532	533	542	567
17	531	529	546	563	594	609	617	636	575	554	517	512	525	526	505
18†	517	514	534	547	576	608	604	589	585	570	556	541	538	533	527
19†	518	524	537	566	598	612	591	577	562	532	515	527	532	535	531
20†	527	526	533	568	615	639	646	640	613	579	550	538	537	542	541
21	532	533	547	579	615	644	664	648	625	588	561	536	530	539	532
22†	539	542	554	582	609	625	635	636	626	609	594	575	557	548	545
23	561	569	583	610	638	661	667	659	645	618	598	580	572	571	570
24	536	549	536	555	558	590	589	537	503	518	498	498	482	480	477
25	507	495	503	524	552	584	580	561	573	565	553	544	531	520	489
26	492	508	518	535	554	583	601	600	579	573	552	523	509	511	508
27	509	502	506	511	518	569	568	610	613	589	522	522	505	505	508
28	516	523	537	562	592	620	620	620	591	571	551	534	528	525	524
29††	525	518	519	481	522	581	622	623	616	585	556	527	526	548	537
30	534	549	548	562	574	586	605	611	606	570	550	523	491	484	479
31	517	511	511	528	558	589	608	628	637	613	599	570	560	561	562
Mean	505	509	522	546	579	609	614	610	590	565	538	525	516	509	502
Mean†	519	514	535	561	594	615	614	606	591	568	551	542	538	535	531
Mean††	491	500	519	515	568	612	621	613	594	576	513	511	506	477	452

† 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)

May 39,000γ 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		
Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	H	M	γ	H	M.	γ	γ	1††
457	460	460	465	466	475	499	496	496	488	05	45	584	00	30	419	165	2
488	486	487	491	491	494	495	493	492	515	07	55	587	15	30	483	104	3
508	509	509	511	508	503	499	499	501	528	05	15	602	00	27	489	113	4†
514	514	513	513	509	505	513	512	506	539	06	42	644	23	33	497	147	5
460	464	454	470	432	436	436	455	451	518	05	45	674	18	45	407	267	6††
487	488	478	478	479	473	468	469	465	508	04	33	613	16	59	444	169	7††
293	328	342	377	407	412	406	420	432	464	06	48	680	15	22	275	405	8††
458	463	468	466	467	470	475	478	480	493	05	08	652	14	40	452	200	9
483	485	484	489	493	494	493	483	489	514	05	36	618	00	04	476	142	10
480	480	480	484	483	477	474	478	487	513	04	42	713	09	00	435	278	11
484	483	482	491	495	497	499	495	491	518	05	28	630	12	27	473	157	12
504	505	502	501	499	506	505	499	495	550	05	41	827	23	00	492	335	13
497	486	498	504	507	507	507	510	508	538	06	40	668	00	50	485	183	14
497	499	499	502	506	505	504	504	502	537	06	47	656	12	50	486	170	15
549	498	510	505	510	520	567	554	565	555	06	54	647	17	12	482	165	16
511	504	505	514	516	515	515	516	516	540	06	32	691	10	35	495	196	17
523	523	523	525	524	528	527	525	521	544	05	47	624	00	01	516	108	18†
529	528	528	529	528	525	527	529	529	542	04	50	625	09	50	512	113	19†
538	537	536	537	538	540	538	538	539	560	06	10	649	01	26	524	125	20†
530	532	532	534	536	536	539	538	538	562	06	00	675	14	22	527	148	21
559	563	561	559	564	562	559	555	556	576	06	22	638	01	06	538	100	22†
560	538	528	521	517	508	537	531	534	578	05	26	672	20	15	502	170	23
476	472	476	476	480	496	496	491	502	511	06	04	613	07	37	468	145	24
492	494	490	498	505	501	498	495	495	523	04	58	606	14	15	479	127	25
507	505	507	516	511	506	509	508	505	530	06	14	619	00	18	489	130	26
508	505	504	502	508	511	509	509	511	527	07	48	625	02	45	491	134	27
521	518	516	516	517	528	567	546	541	549	05	22	632	00	10	513	119	28
518	507	503	513	510	493	493	503	507	535	06	32	672	02	45	445	227	29††
479	474	475	480	485	492	499	501	502	527	06	52	625	14	22	469	156	30
554	546	544	540	540	542	543	550	541	560	07	58	649	00	02	506	143	31
499	496	496	500	501	502	507	506	507	531						171		Mean
531	532	531	532	532	532	530	529	529									Mean†
440	447	444	460	457	454	451	462	464									Mean††

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

June		39,000γ plus tabular quantities														
		Hours G M T														
Date		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		532	538	534	550	546	581	593	586	563	559	534	492	473	468	487
2†		523	524	512	522	544	580	611	628	637	618	584	553	532	529	530
3		528	528	532	554	577	618	636	631	605	568	536	534	544	547	541
4††		509	506	516	575	631	602	558	544	466	489	495	503	506	494	471
5		480	465	459	433	460	480	510	527	503	496	468	434	436	434	445
6		488	487	509	531	528	537	561	536	553	495	519	493	495	495	493
7		503	515	529	527	559	584	599	607	594	570	521	518	522	520	511
8		519	529	546	574	602	567	555	532	538	515	536	530	530	529	525
9		508	514	520	551	591	598	580	580	585	553	541	517	516	516	507
10†		516	526	538	565	593	611	616	608	589	570	554	536	525	527	523
11†		520	532	547	576	609	642	650	633	592	570	547	532	529	536	537
12†		529	530	542	584	641	678	683	672	643	618	591	561	549	550	553
13		538	539	538	562	592	628	649	654	637	607	583	559	554	550	545
14		545	548	547	568	599	639	666	645	614	584	551	526	514	502	492
15		523	529	534	546	579	610	626	630	606	555	529	524	520	520	523
16†		525	531	552	545	595	589	624	600	586	573	565	560	552	539	535
17		530	535	533	549	587	625	631	625	604	581	558	543	540	545	546
18		540	546	551	572	565	617	626	628	605	579	560	537	536	530	521
19		551	558	561	563	586	590	600	590	562	530	516	510	505	507	500
20		518	527	542	564	590	594	587	574	562	550	538	534	529	523	518
21		522	526	534	547	578	585	614	614	583	547	513	488	482	492	507
22		518	520	523	537	561	590	589	603	609	586	575	553	536	528	526
23		520	526	527	536	566	575	584	591	589	572	556	546	538	533	
24		522	538	544	569	575	597	619	628	606	584	560	531	515	521	527
25		535	538	541	550	586	614	627	624	613	583	550	541	530	521	522
26		516	513	521	557	584	604	602	567	555	528	501	490	501	522	530
27††		529	529	567	580	529	526	466	504	539	529	514	511	506	500	497
28††		518	522	524	521	548	376	643	644	612	609	575	536	492	492	493
29††		499	507	504	524	559	615	582	612	578	566	566	548	538	531	526
30††		486	468	445	432	387	418	483	537	560	553	536	522	512	498	493
Mean		520	523	529	545	568	589	599	598	583	562	576	526	519	517	515
Mean†		523	529	538	558	596	620	637	628	609	590	568	548	537	536	536
Mean††		508	506	511	526	531	547	546	568	551	549	537	524	511	503	496

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

June										39,000γ plus tabular quantities								
Hours G. M. T.										Maximum		Minimum		Range		Date		
										Mean								
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.					
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M	γ	H	M	γ	γ		
506	514	517	520	517	513	519	519	519	528	05	36	608	13	15	463	145	1	
527	529	531	534	531	529	528	529	529	550	07	54	640	01	32	508	132	2†	
540	543	543	534	529	526	523	528	522	553	06	06	641	23	59	512	129	3	
463	470	467	473	477	512	491	509	512	510	04	38	663	07	58	435	228	4††	
457	460	462	466	474	492	491	494	495	472	07	00	544	03	18	421	123	5	
498	490	489	494	501	509	514	512	511	510	06	08	593	11	12	480	113	6	
509	510	510	511	527	527	524	521	521	535	07	20	621	00	10	500	121	7	
521	517	516	512	512	509	500	511	517	531	04	30	625	20	42	497	128	8	
504	502	506	511	515	516	516	514	515	532	04	24	611	14	45	500	111	9	
521	521	519	520	520	521	520	519	517	545	05	54	622	00	06	514	108	10†	
535	532	531	530	530	531	530	529	529	555	05	32	654	00	01	518	136	11‡	
550	550	544	539	539	536	538	540	540	575	06	10	695	01	08	527	168	12†	
540	538	536	534	540	543	544	543	544	567	06	28	669	17	42	532	137	13	
506	509	512	518	519	520	517	516	521	549	05	50	675	13	45	486	189	14	
525	526	520	516	517	521	526	526	527	544	06	50	637	18	10	512	125	15	
531	531	530	528	531	531	532	532	533	552	06	06	638	00	20	524	114	16†	
543	532	520	519	526	532	535	531	535	554	05	19	635	17	20	515	120	17	
528	539	543	540	542	548	548	551	551	558	05	38	641	14	06	518	123	18	
495	499	499	501	503	505	515	513	514	532	06	26	615	14	54	493	122	19	
518	515	524	526	525	526	525	522	523	540	05	15	599	15	42	512	87	20	
509	499	498	501	500	506	508	506	509	528	06	15	625	11	06	477	148	21	
525	525	526	529	531	528	530	529	521	546	07	46	615	23	50	511	104	22	
534	526	520	512	512	513	517	518	522	542	06	06	596	18	15	509	87	23	
529	526	524	515	514	531	531	530	532	549	06	49	638	19	15	508	130	24	
518	515	531	524	510	502	507	514	517	546	06	15	631	20	23	495	136	25	
527	525	526	530	529	526	526	535	530	535	04	34	622	10	52	487	135	26	
498	500	507	500	488	492	495	495	503	513	02	28	605	06	00	419	186	27††	
492	488	483	483	500	503	509	505	500	532	07	15	698	17	26	479	219	28††	
523	532	517	514	520	543	544	543	514	542	07	02	669	23	56	479	190	29††	
493	492	493	518	515	513	494	507	504	494	07	41	567	04	06	329	238	30††	
516	515	515	515	516	520	520	521	521	537						141		Mean	
533	533	531	530	530	530	530	530	530									Mean†	
494	496	493	498	500	513	507	512	507									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)

January

2,000γ plus tabular quantities

Date	Hours G. M. T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1†	309	310	313	313	311	305	303	303	305	301	299	297	295	300	302
2†	311	312	308	312	313	312	309	312	314	314	311	302	295	300	302
3	306	307	305	310	306	300	299	294	295	292	294	295	289	292	293
4	306	307	301	303	297	287	288	275	275	285	287	297	298	298	298
5	306	304	310	310	286	272	266	257	248	248	264	273	275	275	293
6	300	300	298	300	304	298	290	292	288	285	287	296	298	299	302
7	305	305	300	295	291	281	265	269	285	290	289	285	292	298	301
8	304	308	308	316	309	302	301	301	296	291	290	290	292	296	299
9†	295	291	298	319	325	309	299	292	289	293	296	295	293	295	297
10††	301	304	305	320	321	313	300	307	289	277	264	264	277	288	286
11††	296	300	295	298	296	296	296	297	297	296	295	290	295	294	295
12	302	302	301	300	296	285	285	296	309	307	297	294	294	295	296
13	296	297	295	295	288	283	283	290	296	296	294	286	286	296	297
14††	298	289	291	298	300	297	302	310	315	295	286	264	273	294	304
15††	284	284	292	303	312	308	309	320	318	301	294	284	283	296	298
16	306	304	298	293	284	272	266	265	271	285	291	289	290	296	297
17	300	296	293	291	275	265	264	270	275	284	287	293	294	305	295
18	303	297	295	299	299	287	287	295	284	263	283	277	282	297	306
19	297	299	296	300	296	288	283	285	283	287	293	297	296	295	295
20	299	297	294	302	297	273	261	260	266	272	278	279	284	292	300
21††	297	301	304	307	304	296	300	295	285	291	295	288	279	288	292
22	298	297	295	304	301	285	284	284	286	285	295	296	303	298	302
23	303	304	303	299	291	279	271	272	267	262	271	279	284	286	291
24	297	297	299	303	315	310	304	299	282	270	279	290	297	296	299
25	302	305	302	300	297	288	286	279	275	273	273	285	292	297	298
26	303	302	297	299	295	282	281	281	283	283	286	287	288	293	299
27	303	306	300	298	294	291	289	289	279	277	277	280	287	297	300
28	303	299	292	294	298	291	288	293	293	298	297	293	287	291	298
29	300	301	301	302	287	269	265	274	284	293	300	289	284	294	300
30†	305	301	295	298	294	280	276	278	288	294	299	296	289	289	296
31†	302	304	300	293	288	278	277	288	299	294	294	299	295	299	300
Mean	301	301	303	302	299	290	286	291	288	287	289	288	289	294	298
Mean†	304	304	303	307	306	297	293	295	299	299	300	298	293	297	299
Mean††	295	296	297	305	307	302	301	306	301	292	287	278	281	292	297

† 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)

January

2,000γ 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	γ	H	M	γ	H.	M.	γ	γ		
303	303	307	308	309	308	307	308	309	305	03	00	313	12	00	294	19	1†	
305	303	305	306	307	306	308	307	306	308	08	00	314	12	08	291	23	2†	
293	298	302	307	310	308	308	306	306	301	03	09	312	12	00	289	23	3	
299	299	303	304	303	303	301	303	305	297	01	00	307	07	30	267	40	4	
298	309	312	309	310	308	306	303	305	289	16	50	314	08	38	242	72	5	
299	302	304	304	304	304	304	304	305	299	23	00	305	08	25	284	21	6	
301	301	303	298	301	304	303	303	304	299	00	01	305	06	20	263	42	7	
299	301	299	301	301	301	307	303	302	301	02	50	320	10	00	289	31	8	
298	299	299	301	301	301	301	301	297	298	299	03	07	326	08	00	289	37	9†
288	295	296	303	301	307	307	296	297	296	03	10	326	10	32	250	76	10††	
301	297	303	303	302	304	300	301	302	298	16	54	309	11	00	288	21	11††	
304	297	297	301	302	300	307	303	297	299	21	10	312	05	10	284	28	12	
297	296	301	303	310	303	297	296	298	295	19	05	324	05	45	280	44	13	
296	295	297	298	291	282	284	290	283	293	08	27	327	11	10	260	67	14††	
296	298	300	301	304	308	306	307	308	301	07	09	324	11	15	279	45	15††	
299	297	299	303	303	303	305	305	300	293	21	25	308	06	23	263	45	16	
294	293	296	301	301	300	300	301	302	291	12	54	311	05	45	263	48	17	
297	294	295	299	296	297	299	306	299	293	13	20	307	08	50	259	48	18	
296	295	300	305	299	301	301	303	305	296	22	15	307	06	00	283	24	19	
294	284	290	297	302	301	296	297	296	288	03	17	308	07	00	260	48	20	
292	294	298	290	296	307	298	297	300	296	19	45	315	11	44	274	41	21††	
302	298	303	303	303	303	303	302	301	297	02	55	308	08	44	280	28	22	
292	296	299	299	296	297	299	298	299	289	17	25	305	08	50	261	44	23	
298	299	302	305	300	302	300	302	300	298	03	23	316	09	02	268	48	24	
299	299	300	305	302	302	302	302	300	294	17	50	308	09	15	272	36	25	
300	300	299	301	304	304	301	300	303	295	00	09	304	05	20	279	25	26	
301	303	303	305	305	303	304	305	305	296	01	07	310	08	20	276	34	27	
298	299	299	300	300	305	300	299	299	296	19	23	306	12	25	285	21	28	
300	300	302	302	305	307	306	302	306	295	20	05	312	06	02	260	52	29	
298	299	300	301	301	301	301	301	301	295	00	01	305	06	00	276	29	30†	
299	299	300	301	301	302	303	303	305	297	01	11	307	06	00	277	30	31†	
298	298	300	302	302	303	302	302	302	296						38		Mean	
301	301	302	305	304	304	304	303	304									Mean†	
295	296	299	299	299	302	299	298	298									Mean††	

† 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)

February

2,000γ plus tabular quantities

Date	Hours G M. T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	306	302	297	290	278	265	254	252	254	265	267	275	281	284	291
2	301	301	302	300	276	265	259	255	265	269	273	282	289	291	294
3	303	300	294	290	282	279	279	282	285	290	291	300	291	289	302
4	307	302	307	294	290	278	282	280	276	268	282	289	294	296	302
5	304	307	304	302	298	296	295	292	285	283	286	278	270	289	295
6	304	303	294	297	301	292	288	283	290	289	290	289	289	294	301
7†	308	304	304	303	302	294	289	282	277	271	271	277	285	291	300
8	303	303	301	300	296	297	297	286	279	273	273	276	276	290	296
9†	300	294	294	296	297	292	286	279	273	268	266	272	284	296	301
10†	303	302	297	301	297	291	284	291	286	288	285	285	283	290	292
11	301	300	295	290	290	292	295	297	298	292	288	277	278	290	294
12	302	302	304	306	306	307	300	297	298	300	296	291	290	292	298
13	303	306	304	303	297	295	291	290	290	285	280	280	283	297	290
14††	284	288	284	291	304	Δ	Δ	Δ	280	273	268	265	270	274	284
15	291	292	291	292	291	290	289	284	284	289	292	291	290	288	280
16††	296	296	289	291	289	282	280	280	284	290	308	294	284	284	284
17††	294	292	295	298	297	285	286	257	256	273	281	278	281	292	289
18††	297	295	291	296	292	285	291	291	296	291	284	285	281	286	290
19	299	299	295	289	289	280	272	268	273	269	273	277	277	285	291
20	292	295	291	296	289	274	273	279	274	273	280	285	286	290	291
21††	297	295	286	290	288	292	281	274	287	291	288	281	284	288	293
22	298	298	300	308	305	298	291	279	276	276	274	274	274	284	291
23	297	298	298	302	298	284	272	264	261	264	267	274	279	281	287
24†	299	299	298	298	298	286	266	256	255	256	276	272	279	285	291
25†	297	298	298	300	293	274	258	251	246	249	263	273	281	275	288
26	299	301	299	298	292	281	264	264	270	276	282	286	289	294	292
27	297	297	297	295	294	285	270	273	263	257	263	273	285	291	289
28	300	297	298	303	307	285	268	258	252	258	273	280	286	287	292
29	299	299	299	309	317	310	286	275	269	270	275	281	291	293	294
Mean	300	299	297	298	295	287	280	276	275	276	276	281	284	289	289
Mean†	301	299	298	300	297	287	277	272	267	266	272	276	282	287	294
Mean††	296	294	290	294	292	286	284	276	281	286	290	284	282	288	289

† 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)

February										2,000γ 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	
296	296	296	299	302	302	303	301	301	286	00	01	306	07	20	248	58	1
289	293	288	290	281	303	311	305	306	287	20	33	312	07	00	254	58	2
298	298	295	297	306	310	304	304	304	295	19	45	313	06	12	278	35	3
302	301	302	302	301	297	304	306	304	294	19	39	309	08	56	266	43	4
297	292	302	306	308	304	306	309	309	297	18	25	312	12	08	266	46	5
301	301	294	302	306	306	304	304	308	297	23	00	308	06	47	280	28	6
301	301	301	302	302	303	303	303	303	295	00	01	308	09	00	271	37	7†
295	296	296	294	300	300	301	300	301	293	01	05	304	09	05	272	32	8
301	301	302	301	301	302	303	303	303	292	21	22	307	10	00	266	41	9†
292	292	294	295	297	300	301	300	300	294	00	01	303	05	45	278	25	10†
296	295	291	295	296	301	301	302	303	294	22	52	304	10	52	273	31	11
301	300	301	303	302	302	301	302	303	300	04	35	309	12	00	290	19	12
290	289	290	294	295	290	284	286	282	291	01	00	306	09	30	278	28	13
284	290	296	292	294	307	301	294	291	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	14††
280	286	296	295	291	296	297	297	297	290	17	15	302	14	45	278	24	15
271	288	294	296	297	298	295	295	296	290	09	53	314	15	00	259	55	16††
284	291	290	286	292	297	299	307	298	287	21	46	309	07	16	249	60	17††
293	287	292	296	297	296	297	297	297	283	18	20	302	06	25	281	21	18††
290	289	291	301	293	286	303	297	291	287	20	47	309	07	07	265	44	19
292	292	297	293	297	297	297	297	297	289	16	28	301	06	00	271	30	20
292	292	304	298	298	299	302	298	298	287	16	48	306	06	35	272	34	21††
292	292	294	297	298	298	298	298	297	291	03	15	310	10	25	273	37	22
287	292	296	293	294	297	297	298	299	287	03	20	304	08	52	260	44	23
293	294	294	296	296	297	297	296	297	286	01	08	303	08	15	254	49	24†
293	293	293	297	295	295	295	298	300	283	03	00	301	07	36	245	56	25†
292	293	293	299	298	298	299	299	298	290	01	00	305	06	10	262	43	26
297	294	293	299	299	297	299	300	303	288	23	25	309	09	05	256	53	27
294	293	295	298	299	299	299	299	299	288	03	42	311	07	30	251	60	28
292	292	298	298	299	288	294	294	298	293	04	18	321	07	10	268	53	29
293	294	295	297	298	299	296	300	300	291						41		Mean
296	296	297	298	298	299	300	300	301									Mean†
285	290	295	294	296	298	298	299	297									Mean††

† 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 centred at the full hours of Greenwich Mean Time)

Date	Hours G M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	299	303	301	297	292	275	262	266	255	261	269	280	286	288	292
2††	302	303	306	309	303	291	280	286	276	272	275	286	282	284	291
3††	302	296	296	300	294	292	282	275	280	292	286	298	293	293	287
4	304	304	298	298	292	282	278	274	270	274	275	279	281	280	291
5	298	298	297	298	294	287	281	276	279	287	287	286	291	292	294
6	304	304	303	305	297	281	269	260	253	254	256	269	281	286	289
7†	295	298	302	299	293	283	271	268	266	267	268	273	281	290	292
8	299	303	304	305	303	297	279	267	268	267	262	263	271	279	286
9	304	303	299	301	298	297	287	289	295	291	291	287	289	289	293
10	297	298	297	299	295	285	279	272	267	254	265	287	291	291	292
11††	301	298	302	305	302	286	279	278	279	289	290	268	279	290	291
12	303	304	296	285	274	256	249	248	254	257	269	274	284	292	294
13†	299	302	299	292	281	268	255	245	245	249	262	275	286	291	293
14	298	302	300	297	293	285	274	264	258	258	264	274	285	291	292
15	303	303	305	308	303	291	281	278	273	263	266	272	275	284	287
16††	304	291	296	316	324	316	303	312	308	299	298	293	291	290	297
17	302	299	303	305	304	297	290	279	274	274	282	287	285	292	292
18	298	300	304	304	298	284	281	279	280	276	280	286	290	292	294
19	300	299	304	311	309	291	275	263	256	255	258	266	275	281	290
20†	299	302	303	306	299	289	281	275	275	275	279	287	292	293	292
21	299	298	303	305	306	299	293	283	281	286	297	294	289	288	288
22†	297	299	299	299	299	299	294	288	287	285	285	288	288	288	293
23†	301	303	301	307	306	293	283	285	288	289	292	293	291	288	292
24	303	303	298	295	292	281	264	257	257	258	276	282	285	289	293
25	297	300	297	293	282	268	257	256	259	269	273	276	281	287	292
26	300	300	298	297	288	279	272	268	269	281	291	291	285	287	287
27	300	302	303	308	297	281	269	267	269	276	282	284	285	290	292
28	300	304	311	316	310	302	286	274	269	258	262	264	278	292	294
29	294	300	303	292	290	284	276	262	234	261	273	280	282	292	294
30	300	308	312	315	315	297	277	269	267	271	281	291	292	292	292
31††	303	311	307	296	291	278	261	255	261	280	297	297	284	283	296
Mean	300	301	302	302	298	287	276	272	269	272	277	282	285	289	292
Mean†	298	301	301	301	296	286	277	272	272	273	277	283	288	290	292
Mean††	302	302	301	305	303	293	281	281	281	286	289	288	286	288	292

† 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 centred at the full hours of Greenwich Mean Time)

March										2,000γ plus tabular quantities							
Hours G M T.										Maximum		Minimum		Date			
15	16	17	18	19	20	21	22	23	Mean	Range		Range					
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	Time	Mag	Time	Mag.				
293	293	292	297	297	303	297	298	298	287	20	09	306	08	10	251	55	1
294	294	296	298	293	296	298	305	304	293	02	15	310	08	42	268	42	2††
282	296	305	304	303	299	302	302	304	294	17	00	305	07	06	274	31	3††
293	292	292	293	298	303	304	305	306	290	22	25	310	08	05	269	41	4
297	299	299	304	298	294	296	300	304	293	17	57	308	07	30	274	34	5
291	291	291	295	297	302	297	297	297	286	03	13	308	08	44	248	60	6
293	293	296	297	297	296	297	297	299	288	01	35	303	08	00	266	37	7†
289	290	295	301	303	303	304	303	301	289	03	24	309	09	46	261	48	8
287	293	297	296	297	297	296	297	297	295	00	01	304	10	17	283	21	9
291	292	292	291	296	301	297	302	303	289	19	35	305	09	35	249	56	10
297	297	291	295	296	301	299	299	299	292	03	03	308	11	27	265	43	11††
294	294	293	296	299	302	300	300	300	284	00	40	307	06	58	246	61	12
294	296	297	298	298	296	297	298	298	284	18	05	303	07	30	244	59	13†
296	296	297	298	298	298	298	298	298	288	23	18	304	08	18	256	48	14
285	285	282	284	292	298	296	297	294	288	03	00	308	09	15	261	47	15
299	297	296	298	284	305	298	297	303	301	04	10	327	19	10	280	47	16††
297	298	298	298	303	304	300	298	298	294	03	10	306	08	45	268	38	17
297	298	300	298	300	300	300	299	300	293	03	12	305	06	04	264	41	18
290	292	300	304	304	303	302	300	300	289	03	12	316	09	10	254	62	19
293	295	298	299	299	299	299	299	300	293	03	11	309	07	00	275	34	20†
294	299	300	300	301	300	301	300	298	296	03	54	309	08	00	281	28	21
294	298	298	298	298	299	299	299	299	295	03	00	301	08	35	283	18	22†
293	297	298	298	300	299	299	303	305	296	03	03	311	06	10	280	31	23†
297	293	293	295	303	298	298	303	300	288	19	07	306	07	30	253	53	24
294	297	297	299	299	299	300	300	299	286	01	00	301	06	34	259	42	25
292	294	295	298	298	298	298	298	299	290	00	01	301	07	05	267	34	26
292	293	294	297	298	298	297	298	300	290	03	18	311	07	00	267	44	27
292	290	286	298	298	303	304	299	296	291	03	17	318	08	56	256	62	28
293	297	298	299	299	298	298	298	300	287	01	36	304	08	00	231	73	29
293	293	287	293	293	295	295	303	302	293	03	20	319	07	36	266	53	30
303	295	256	295	315	327	317	319	299	293	21	48	367	17	23	244	123	31††
293	294	294	297	299	300	299	300	300	291							47	Mean
293	296	297	298	298	298	299	299	300									Mean†
295	296	289	298	298	306	303	304	302									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)

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††	296	281	280	292	279	273	273	304	338	342	296	276	267	255	273
2	318	304	302	291	290	291	288	289	297	312	308	317	326	326	317
3††	326	325	306	301	289	281	255	266	289	293	290	285	290	293	297
4	306	313	314	314	308	292	276	270	274	276	288	289	289	290	294
5	300	310	310	297	283	253	246	251	258	252	264	273	277	288	291
6	304	310	303	299	296	282	268	262	262	282	290	294	291	291	292
7	300	309	309	300	290	276	273	262	267	278	286	287	286	288	290
8	300	306	297	290	284	274	269	254	273	278	286	287	289	296	297
9†	301	308	299	295	290	276	265	267	273	273	284	286	288	292	292
10	266	260	260	294	284	259	247	239	247	260	265	282	276	275	283
11	306	302	309	304	296	282	270	271	277	282	289	295	292	290	295
12	294	304	306	297	283	273	259	262	257	275	292	295	291	286	285
13	304	305	297	286	282	261	253	258	267	282	289	286	288	289	283
14	295	305	318	321	312	303	291	279	272	273	281	282	285	284	286
15	294	303	297	290	278	247	247	253	255	265	277	283	290	289	286
16	295	298	295	290	286	278	266	252	250	253	259	266	266	267	279
17	294	302	298	295	296	290	274	266	267	267	273	287	291	292	292
18	297	302	298	292	290	279	267	255	269	275	273	272	280	286	291
19†	297	303	305	306	304	291	280	270	268	270	278	285	288	290	290
20†	300	305	304	294	287	280	268	262	261	261	270	283	292	293	292
21†	299	305	305	298	293	281	266	257	260	269	274	282	286	289	290
22†	301	304	304	295	286	275	273	259	268	278	288	294	295	294	290
23	305	306	306	293	283	273	265	260	270	272	283	295	296	296	294
24††	289	294	283	278	278	261	252	249	255	271	288	289	295	292	296
25	297	308	322	303	288	276	266	248	270	261	285	285	288	292	296
26	308	308	308	298	289	277	272	265	269	274	286	299	304	304	298
27	309	310	301	290	286	275	266	262	267	274	285	295	298	298	297
28††	315	296	297	295	275	268	261	243	245	250	272	287	287	293	296
29	314	313	323	314	303	283	273	263	273	275	287	295	286	298	297
30††	311	314	Δ	Δ	308	286	274	266	263	271	284	297	305	284	249
Mean	301	303	302	297	289	276	267	262	269	275	282	287	289	290	292
Mean†	300	305	303	298	292	281	270	261	266	270	279	286	290	292	291
Mean††	306	299	292	292	280	271	260	266	282	289	269	284	285	283	290

† 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)

April

2,000γ 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		
254	241	300	285	301	328	306	330	324	291	19	33	370	16	17	230	140	1††	
329	329	312	312	311	309	308	309	315	309	12	18	337	06	53	283	54	2	
297	300	303	303	303	306	306	303	303	296	00	40	337	05	55	251	86	3††	
294	295	301	298	302	301	300	308	302	296	02	35	319	07	00	270	49	4	
291	293	289	297	299	303	303	300	300	284	01	51	311	08	50	239	72	5	
292	298	309	300	300	298	298	297	297	292	16	33	318	07	50	256	62	6	
294	288	292	281	287	297	299	305	308	290	22	15	310	07	05	261	49	7	
297	297	301	299	301	299	299	299	301	291	00	52	309	06	58	250	59	8	
294	296	297	300	300	300	300	301	301	291	00	50	309	06	25	260	49	9†	
294	284	296	307	313	294	284	289	294	277	18	33	320	07	07	236	84	10	
294	290	295	298	300	300	295	298	296	293	02	02	312	06	10	269	43	11	
293	294	297	297	299	299	298	300	304	289	01	46	308	06	05	253	55	12	
292	293	299	297	297	303	298	295	294	288	01	00	305	05	36	233	72	13	
291	291	294	298	296	293	294	298	296	293	03	05	322	08	20	260	62	14	
290	291	293	293	295	293	292	292	293	283	01	15	304	05	10	236	68	15	
268	270	291	296	301	297	303	296	296	280	20	36	306	06	55	249	57	16	
292	295	295	293	291	292	303	301	295	289	00	50	303	06	50	262	41	17	
291	292	298	298	298	298	297	297	293	287	00	52	303	06	45	254	49	18	
292	293	294	296	296	296	296	296	296	298	291	02	00	305	08	00	268	37	19†
293	294	297	297	299	298	298	297	297	288	01	20	306	08	45	259	47	20†	
294	295	300	300	300	299	298	299	300	289	01	25	306	07	00	257	49	21†	
293	294	296	300	298	300	300	299	300	291	01	30	306	06	45	258	48	22†	
295	295	296	297	305	302	294	296	302	291	01	30	307	06	40	257	50	23	
303	307	307	306	307	302	308	315	307	289	22	58	320	06	12	248	72	24††	
308	300	312	309	301	307	307	308	308	294	01	42	328	06	35	241	87	25	
299	299	298	304	305	305	307	307	307	295	01	14	310	07	05	262	48	26	
298	301	303	305	305	311	308	302	311	294	23	36	326	06	30	261	65	27	
298	298	304	307	310	327	322	316	311	291	20	17	333	07	20	231	102	28††	
299	308	308	309	309	308	309	309	310	299	01	50	327	07	30	256	71	29	
257	305	281	257	280	308	320	334	329	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	30††	
294	294	299	299	301	302	301	302	302	291						63		Mean	
293	294	297	299	299	299	298	298	299									Mean†	
288	286	304	300	305	316	310	316	311									Mean††	

† 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)

May

2,000 $\gamma$  plus tabular quantities

Date	Hours G M T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$
1††	332	329	323	$\Delta$	$\Delta$	$\Delta$	$\Delta$	$\Delta$	$\Delta$	$\Delta$	$\Delta$	$\Delta$	$\Delta$	$\Delta$	$\Delta$
2	309	317	320	323	317	308	297	287	285	284	286	297	307	307	304
3	310	312	313	313	301	290	283	274	266	262	262	273	285	296	299
4†	310	310	308	303	297	290	296	285	292	293	293	297	298	298	298
5	309	310	304	296	286	283	273	272	278	284	287	296	298	297	298
6††	309	313	309	311	297	295	295	286	281	277	275	283	286	286	293
7††	310	310	316	299	292	279	273	284	293	299	295	299	309	297	285
8††	310	310	307	298	297	299	290	281	296	271	267	298	296	278	272
9	327	319	313	310	299	298	296	285	289	301	310	305	297	297	297
10	310	311	307	308	302	295	284	276	279	286	298	302	301	298	298
11	316	313	309	303	295	284	266	278	273	302	317	310	304	296	296
12	309	316	318	309	290	266	260	273	273	284	290	285	294	296	298
13	312	315	304	286	273	261	232	236	250	260	270	283	295	297	296
14	308	309	309	301	288	279	272	261	261	261	282	295	297	296	296
15	308	312	314	309	303	292	283	276	272	270	274	284	291	297	297
16	308	310	308	300	290	282	273	271	274	280	276	285	296	302	312
17	303	308	312	308	304	297	297	302	304	304	308	310	308	297	291
18†	309	308	302	296	296	290	282	279	286	290	288	292	295	297	297
19†	309	315	315	308	304	309	310	321	322	331	331	321	310	307	301
20†	312	315	315	312	307	286	276	271	276	284	284	285	295	296	297
21	309	310	308	312	309	303	295	285	288	288	292	297	298	300	298
22†	307	308	307	298	298	294	293	289	286	283	283	288	293	295	296
23	302	307	301	293	290	280	272	269	269	276	282	290	291	293	294
24	306	308	296	289	290	288	265	249	268	268	274	285	290	296	295
25	313	313	314	305	288	281	275	263	258	263	275	286	289	288	287
26	303	310	300	291	283	274	271	271	273	280	283	286	291	295	295
27	308	308	301	297	298	285	272	266	267	267	267	279	284	286	290
28	300	308	306	301	296	286	279	272	267	273	283	288	290	292	289
29††	296	308	320	321	291	283	275	266	271	283	296	295	295	296	288
30	309	313	308	303	299	294	285	281	281	277	283	287	283	285	284
31	302	301	291	282	272	265	259	258	262	269	281	288	293	293	293
Mean	308	311	308	303	295	287	279	275	278	282	287	293	296	295	295
Mean†	309	311	309	303	300	294	291	289	292	296	296	297	298	299	298
Mean††	306	310	313	307	294	289	283	279	285	283	283	294	297	289	285

† Five International quiet days

†† Five International disturbed days

 $\Delta$  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)

May										2,000γ plus tabular quantities						Date
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	H. M.	γ	H. M.	γ	γ		
Δ	Δ	Δ	Δ	309	309	309	310	309	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
304	308	309	310	309	310	310	309	309	305	03 12	327	09 27	279	48	1††	
299	303	307	309	309	310	309	305	305	296	03 00	314	09 25	261	53	2	
299	302	305	307	305	303	301	303	307	300	00 01	310	06 25	284	26	3	
304	304	307	308	308	307	309	308	305	297	01 00	311	07 00	272	39	4†	
303	308	309	314	297	303	307	314	308	298	22 04	326	08 36	274	52	5	
291	305	297	313	309	308	308	308	308	299	01 57	323	05 40	262	61	6††	
273	295	305	317	327	323	315	317	314	298	23 34	345	09 29	237	108	7††	
298	304	309	309	310	311	310	310	310	305	00 01	327	07 03	279	48	8††	
298	304	305	309	309	309	309	308	309	301	00 30	313	07 00	276	37	9	
300	304	308	309	308	307	307	309	309	301	09 35	320	05 46	260	60	10	
300	306	307	310	310	310	309	308	308	297	01 31	319	05 55	256	63	11	
296	300	301	303	303	307	307	304	306	287	00 45	316	06 00	223	93	12	
296	302	307	309	308	308	308	308	308	295	01 02	312	06 58	260	52	13	
300	304	306	307	310	307	306	306	307	297	02 30	315	08 50	267	48	14	
302	298	300	307	309	313	333	318	321	299	20 45	350	07 10	268	82	15	
297	300	304	308	308	308	308	308	308	308	01 58	318	13 45	288	30	16	
298	303	304	307	307	308	308	308	307	298	00 30	310	06 46	276	34	17	
303	307	307	308	307	306	307	307	309	311	08 45	332	14 00	301	31	18†	
301	307	308	308	307	308	308	308	308	299	00 45	316	07 00	271	45	19†	
302	306	308	308	308	307	308	308	304	302	03 00	315	08 40	284	31	20†	
306	307	306	306	307	306	305	305	306	299	14 45	310	09 43	282	28	21	
296	292	294	294	297	296	312	304	305	292	20 50	316	07 44	268	48	22†	
298	300	302	304	304	310	308	303	313	292	23 45	315	07 17	248	67	23	
293	298	299	300	300	299	299	299	300	291	01 45	315	07 30	256	59	24	
296	297	299	302	298	298	301	301	302	292	00 52	311	04 45	270	41	25	
292	294	296	296	298	297	297	297	297	289	01 12	309	08 06	262	47	26	
292	295	296	296	297	303	319	298	298	293	02 30	324	08 08	265	59	27	
284	284	288	295	296	294	294	296	297	292	02 38	344	06 50	247	97	28	
287	285	288	291	294	295	297	297	297	292	01 00	313	08 50	275	38	29††	
290	290	294	294	294	294	294	296	294	285	00 33	303	07 12	257	46	30	
296	300	302	305	305	306	307	305	306	297				52	Mean		
301	305	306	307	307	306	306	306	307						Mean†		
288	298	300	310	307	307	306	309	309						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)

Date	Hours G. M. T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	293	300	295	290	286	280	262	259	265	275	274	272	281	284	294
2†	301	306	306	305	298	295	290	286	283	278	274	281	286	287	288
3	296	302	307	311	311	307	296	286	286	293	304	305	300	293	289
4††	294	300	306	316	313	266	276	311	270	284	271	274	283	284	281
5	296	295	298	307	307	307	293	276	272	271	275	277	288	287	294
6	301	305	305	301	290	287	282	274	272	276	277	271	282	288	290
7	299	310	308	300	293	282	282	277	281	274	272	282	290	289	286
8	295	298	292	288	286	274	274	281	288	288	290	281	282	284	292
9	295	300	296	283	270	259	259	266	270	269	271	275	287	293	289
10†	298	295	286	286	293	293	293	294	294	292	294	298	296	293	289
11†	300	302	294	292	290	277	270	269	276	289	290	288	293	293	288
12†	295	300	298	296	288	282	280	276	284	286	283	286	289	290	288
13	298	302	307	312	306	298	289	282	276	276	281	283	289	287	284
14	298	302	299	302	305	290	274	259	274	282	288	289	282	286	282
15	300	306	305	304	295	286	274	269	263	268	286	294	294	290	288
16†	300	298	294	286	280	276	271	272	278	275	274	276	283	288	288
17	295	298	300	305	299	283	279	275	282	288	282	292	293	291	286
18	295	295	293	295	291	286	274	274	281	282	283	280	285	289	288
19	298	300	295	297	289	275	274	265	267	273	280	281	282	288	285
20	301	299	293	291	286	281	276	274	277	281	280	281	287	285	283
21	297	305	304	297	293	294	284	278	278	286	287	290	288	292	293
22	304	305	308	306	296	281	279	274	268	268	273	279	280	281	282
23	293	300	296	297	294	293	300	294	294	291	287	288	287	284	284
24	294	296	293	294	292	292	288	280	275	278	282	290	293	288	284
25	296	302	299	293	291	284	275	269	272	270	272	278	279	280	281
26	294	296	294	292	291	279	267	266	278	296	308	309	304	293	291
27††	292	293	298	284	269	268	291	303	284	281	284	296	293	287	286
28††	303	304	304	299	302	293	299	284	273	275	275	263	268	274	280
29††	292	293	292	302	298	297	292	294	281	285	288	292	292	286	281
30††	286	296	300	293	312	306	291	280	280	278	279	284	287	282	284
Mean	297	300	299	297	294	286	281	278	277	280	282	285	287	287	287
Mean††	299	300	296	293	290	285	281	279	283	284	283	286	289	290	288
Mean††	293	297	300	299	299	286	290	294	278	281	279	282	285	293	282

† 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)

June										2,000γ 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	γ		
300	302	302	302	298	295	300	298	298	288	01 05	302	06 25	257	45		1	
289	293	294	295	294	294	294	294	295	292	01 20	307	09 56	270	37		2†	
293	295	298	295	294	294	294	295	294	297	03 23	313	07 09	284	29		3	
286	295	294	296	298	298	299	293	294	291	02 55	330	07 10	250	80		4††	
298	300	299	299	301	306	301	301	301	294	03 14	310	09 02	268	42		5	
294	294	295	296	298	298	298	298	298	290	01 35	306	11 10	269	37		6	
276	292	293	294	300	296	294	294	295	290	01 00	310	09 25	270	40		7	
290	290	294	293	293	293	290	296	301	289	22 45	306	04 40	270	36		8	
290	294	295	298	298	295	294	294	295	285	01 30	305	05 50	257	48		9	
293	294	294	294	295	295	294	294	295	293	00 29	299	02 30	283	16		10†	
290	290	290	292	292	293	292	292	294	289	00 35	305	06 54	266	39		11†	
289	290	292	292	294	293	294	295	296	290	00 40	302	07 00	275	27		12†	
286	287	290	293	294	294	294	294	298	292	03 00	314	08 05	274	40		13	
294	296	299	301	299	298	296	296	298	291	03 22	308	07 00	257	51		14	
293	294	294	294	295	295	296	295	296	291	01 25	307	08 35	258	49		15	
288	292	293	293	293	292	292	294	295	286	00 25	301	06 30	269	32		16†	
287	285	285	288	293	294	294	293	294	290	03 10	306	06 35	271	35		17	
295	300	301	300	300	303	299	300	299	291	19 20	305	06 15	270	35		18	
287	293	293	293	293	293	295	293	297	287	00 56	303	06 48	264	39		19	
288	292	295	295	293	293	293	293	294	288	00 25	304	07 15	273	31		20	
294	292	293	296	294	296	297	297	298	293	01 45	307	07 15	274	33		21	
286	291	292	293	294	293	296	294	292	288	02 00	308	08 00	268	40		22	
287	287	287	287	291	292	294	294	297	292	00 30	304	13 00	284	20		23	
287	288	291	288	291	296	292	292	293	289	00 52	298	07 30	274	24		24	
284	286	293	288	284	284	290	292	294	285	00 35	304	06 45	268	36		25	
290	291	292	294	294	293	292	293	291	291	10 15	311	06 25	260	51		26	
288	291	297	294	292	294	296	296	299	290	01 50	311	05 00	263	48		27††	
282	286	288	291	296	293	296	292	292	288	01 15	310	11 20	258	52		28††	
284	285	288	290	292	304	300	304	291	292	21 42	311	07 48	280	31		29††	
286	290	291	304	297	296	291	296	293	291	17 53	315	08 45	275	40		30††	
289	292	293	294	295	295	295	295	296	290					39		Mean	
290	292	293	293	293	293	293	294	295								Mean†	
285	289	292	295	295	297	296	296	294								Mean††	

† Five International quiet days.  
 †† Five International disturbed days.  
 Δ Loss of record; (day omitted for means).

TABLE 19  
Principal Magnetic Storms  
January-June 1960

Observatory	Greenwich Day 1960	Storm Time		Sudden commencements			C-figure Degree of Ac- tivity(iv)	Maximal activity on K-scale 0 to 9			Ranges			
		GMT. of begin- ning	G.M.T. of ending (i)	Type (ii)	Amplitude(iii)			Green- wich Day	Green- wich 3 hr. index	K- index	D.	H.	Z	
		h. m d h			D	H	Z.							
Astrophysical Observatory Kodaikanal	January 10	07	15 11 17	S.C.	3	18	37	ms	10			4	282	58
	January 13	19	01 15 16	S.C.	<1	38	17	m	14			7	218	67
	January 17	12	27 18 22	..				ms	18			8	280	52
	January 21	00	32 22 11					m	21			6	210	53
	February 16	09	20 18 10					m	16			6	247	69
	March 15	12	25 16 23	..				m	16			3	213	52
	March 31	08	43 2nd Apr	..				s	1st April			16	649	144
	April 2	23	12 5 09	S.C.	<1	18	19	ms	3			5	390	82
	April 10	01	25 12 11	S.C.	1	22	10	ms	10			6	307	80
	April 16	13	06 17 08	S.C.	<1	13	9	m	16			4	241	35
	April 23	19	31 25 23					ms	24			5	279	75
	April 27	20	02 28 21	S.C.	<1	31	15	ms	28			7	263	92
	April 30	12	14 1st May	S.C.	3	105	52	s	30			13	529	150
	May 6	03	26 7 18	..				ms	6			6	266	57
	May 8	04	20 9 12	S.C.	2	62	23	ms	8			8	384	104
	May 16	13	55 17 14	S.C.	1	39	20	m	16			4	214	58
	May 28	20	18 30 10	S.C.	<1	43	22	m	29			5	224	92
	June 4	02	52 6 12	S.C.	1	71	29	m	4			3	239	79
	June 27	01	45 28 13	S.C.	<1	56	22	ms	27			4	282	59
	June 29	19	38 1st July	S.C.	<1	31	20	ms	30			6	263	68

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 250γ)  
 (ms)—for moderately severe (when range is between 251γ and 400γ),  
 (s)—for severe (when range is above 400γ),

**IONOSPHERIC DATA**

Characteristic : fo F2  
Unit : Mc  
Month : January, 1960

TABLE 1  
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	C	F	8.4	6.7	5.1	3.6	C	C	11.1	11.2	10.2	10.7
2	F	F	F	F	5.4	3.1	4.5	8.7	10.9	10.8	9.9	9.8
3	10.8	F	F	7.5	6.6	4.3	4.8	9.1	11.3	12.1	11.7 <sub>H</sub>	10.6
4	9.7	8.7	7.6	6.0	4.8	3.2	4.5	8.6	10.8	11.1	10.6	10.7
5	9.0	8.4	7.1	6.1	5.7	5.1	5.3	9.3	11.3	11.8	11.2	11.7
6	7.1	6.4	6.5	U6.0s	5.4	4.0	5.3	9.4	11.8	12.1	12.4	12.0
7	10.4	9.8	8.5	7.4	7.2	6.5	5.7	9.3	11.4	12.1	11.6	10.8
8	8.4 <sub>F</sub>	8.6	9.0	8.3	F	5.9	4.9	8.8	10.8	11.6	12.6	12.7
9	F	F	F	F	5.5 <sub>F</sub>	F	6.7 <sub>F</sub>	U10.0 <sub>F</sub>	11.2	12.3	13.6	13.0
10	U7.6 <sub>F</sub>	6.8 <sub>F</sub>	F	F	F	U5.4 <sub>F</sub>	6.2	9.5	11.3	12.4	12.3	12.6
11	9.8	U9.0 <sub>F</sub>	8.8	7.6	U7.8s	7.4s	7.5	8.0	9.6	10.6	11.1	11.6
12	FS	U9.4 <sub>F</sub>	F	6.9	6.3	4.5	4.3	8.7	10.4	10.7	10.8	11.4
13	9.1 <sub>F</sub>	8.5	7.8	6.9	5.2	4.6	4.8	8.1	9.9	10.1	10.2	10.8
14	9.7	8.3	7.2	6.4	J6.4s	J5.9s	6.3	9.0	11.2	11.4	11.1	11.8
15	10.0	6.7	U6.2s	U3.3s	2.3	2.2	U4.4s	7.7	10.6	C	C	12.2
16	F	F	FS	4.8	J3.0 <sub>F</sub>	E	3.6	7.8	9.1	9.5	9.5	9.8
17	F	F	F	U6.5 <sub>F</sub>	4.8	3.7	4.4	8.3	U9.8s	C	C	C
18	11.4	10.4	8.3	6.8	5.2	3.5	U4.2 <sub>C</sub>	8.7	10.6	10.7	10.4	10.3
19	9.0	8.3	6.6	5.8	4.4	3.3	U4.4 <sub>R</sub>	9.0	11.2	11.5	10.8	10.3
20	9.4	9.2	8.5	6.8	U6.4s	5.0	4.3	8.7	11.0	11.2	10.4	10.3
21	10.5	8.0	5.6	3.9	2.5	2.7	4.0	7.8	9.7	11.6	C	12.0
22	U9.3s	J10.1s	7.8	8.0	U6.8s	5.2	4.7	U9.2s	11.0	12.1	12.9	12.7
23	8.5	7.4	7.1	U7.6s	7.8	6.7	5.6	9.0	11.0	11.8	11.6	C
24	8.0	8.6	8.0	7.9	7.8	U7.4s	6.6	U9.7s	12.4	13.3	13.2	13.4
25	6.8	F	F	7.0	7.6	7.2	6.0	9.6	11.8	12.1	10.9	10.6
26	U7.3 <sub>F</sub>	F	U7.6 <sub>r</sub>	F	5.6	5.6	5.2	9.0	11.0	11.6	11.2	11.1
27	F	F	F	U7.8s	6.5	4.9	4.6	8.6	11.0	11.6	10.8	11.0
28	F	F	F	F	F	3.1	U4.0 <sub>R</sub>	U7.9s	U9.9s	10.8	11.2	11.6
29	F	F	F	F	U7.7s	6.2	5.3	U9.4s	11.1	10.8	10.4	10.6
30	F	11.1	F	8.3	5.4	4.0	4.4	8.4	10.4	10.4	10.4	10.3
31	F	F	F	F	F	5.0	4.7	8.6	10.6	10.6	10.4	10.5
Count	20	19	18	24	27	30	30	30	31	29	28	29
Median	9.2	8.6	7.7	6.8	5.6	4.8	4.8	8.8	11.0	11.5	11.0	11.0
Mean	9.1	8.6	7.6	6.7	5.7	4.8	5.0	8.8	10.8	11.4	11.2	11.3

Sweep 1.0 Mc. 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : January, 1960

TABLE 1 (Contd.)

Ionospheric Data

75 0°E Mean Time

Latitude : 10·2°N

Longitude : 77·5°E

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

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

Characteristic : fo F2  
Unit : Mc  
Month : January 1960

TABLE 1 (Contd)  
Ionospheric Data  
75 0°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	F	7.6	5.9	4.3	2.7	C	10.5	11.3	10.9	10.5	11.2
2	F	F	F	6.4	4.4	2.5	6.8	10.0	11.2	10.6	9.7	10.1
3	U10.3F	F	8.1	7.1	5.6	3.2	7.2	10.4	12.0	11.9	10.6	10.7
4	9.1	8.1	6.6	5.1	4.0	2.4	6.8	10.0	11.2	10.7	10.6	10.8
5	8.7	7.9	6.7	6.1	5.6	4.3	7.2	10.6	11.6	11.3	11.5	11.6
6	6.6	6.5	U6.2s	5.8	4.7	3.7	7.8	10.5	12.2	12.7	12.1	11.7
7	U10.0s	9.4	7.9	7.2	6.7	5.9	7.6	10.6	12.0	12.0	11.3	10.4
8	U8.4s	9.1	8.7	7.8	U7.0F	4.7	7.0	10.1	11.3	11.8	12.7	12.7
9	F	F	U6.2r	F	F	U6.0r	U8.7r	U10.7r	11.6	12.8	13.1	12.7
10	U7.2F	U5.8r	F	U5.4r	5.3r	5.4r	8.1	10.3	12.1	12.1	12.5	12.6
11	U9.2s	9.0	8.1	U7.7s	7.4	7.2	8.3r	9.0	10.2	10.7	11.5	12.0
12	F	F	F	6.5	5.0	3.5	6.6	9.7	10.6	10.8	11.0	11.8
13	F	8.6	7.5	6.4	4.7	4.1	6.6	9.3	9.9	10.1	10.6	11.4
14	9.3	7.9	6.8	U6.4s	U6.1s	5.6	7.6	10.2	11.6	11.5	11.4	12.2
15	8.7	6.4	U5.4s	2.8	2.1	3.0	5.6	9.4	11.2	12.0	C	12.0
16	FS	U9.0s	U5.8ts	F	U2.2R	E	5.8	8.6	9.6	9.4	9.8	10.0
17	F	F	F	5.6	U4.3R	3.3	6.8	9.5	C	C	C	C
18	11.3	U9.6s	7.2	6.4	U4.2R	2.8	6.7	10.0	10.6	10.6	10.2	10.6
19	8.6	7.6	5.8	4.6	3.8	2.8	6.8	C	11.5	11.3	10.4	10.3
20	9.4	9.0	7.6	6.8	5.4	3.9	6.7	10.2	11.1	10.8	10.0	10.6
21	F	6.8	5.0	2.9	2.4	2.4	6.6	8.7	11.0	C	C	12.1
22	S	8.8	7.6	U7.6s	U6.1s	4.4	U7.3s	U10.6s	11.6	12.7	12.8	12.3
23	U7.9s	6.9	U7.3s	7.6	7.0	5.8	7.2	10.0	C	11.6	11.7	11.5
24	8.2	8.1	7.9	8.1	U7.5s	7.1	8.1	11.2	13.0	12.7	13.2	13.4
25	F	F	U6.8F	7.0	7.8	6.6	7.7	10.9	12.0	11.6	10.7	10.4
26	F	U7.6r	U6.7r	5.8	5.7	5.0	7.4	10.0	11.4	11.4	11.2	11.0
27	F	F	U8.0s	7.6	U6.2s	4.0	6.9	10.1	11.6	11.1	10.8	10.9
28	F	F	F	U6.1s	3.7	2.9	U6.3s	U9.2s	10.4	11.1	11.3	12.0
29	F	F	F	U8.0r	FS	F	7.5	10.6	10.9	10.6	10.6	10.8
30	F	F	9.7	6.8	4.8	3.3	6.6	U9.8s	10.3	10.5	10.3	10.6
31	U10.4F	F	F	8.0	6.0	4.0	6.8	U9.8s	10.7	10.4	10.4	10.6
Count	16	19	24	29	29	30	30	30	29	29	28	30
Median	8.9	8.1	7.2	6.4	5.3	4.0	7.0	10.0	11.3	11.3	10.9	11.3
Mean	9.0	8.0	7.1	6.4	5.2	4.2	7.1	10.0	11.2	11.3	11.2	11.4

Sweep 1.0 Mc 25.0 Mc. in 27 seconds.

Characteristic . foF2  
Unit : Mc  
Month : January 1960

TABLE 1 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.9	12.2	12.7	12.8	12.4	u11.5s	u11.4s	F	F	F	F	F	1
10.6	11.1	11.6	12.0	12.2	11.4	u10.4s	9.3	F	F	F	u10.3F	2
11.1	11.8	12.0	12.3	u11.8s	9.6	8.9	F	F	F	F	u9.6F	3
10.9	11.1	11.6	12.3	12.8	12.5	11.2	10.5	10.4	9.4	8.6	8.7	4
11.0	10.1	9.7	9.8	10.2	u10.0s	u9.5F	u10.2F	10.2	9.7	9.9	8.1	5
11.1	10.9	10.9	11.4	11.2	10.9	10.7	9.4	9.0F	u9.4s	9.6	10.3	6
9.9	10.7	11.0	10.4	10.3	9.8	9.2	8.3F	u7.2F	u7.6F	u7.8F	8.5	7
12.4	11.4	10.4	10.0	9.4	8.6	7.7	u6.6F	F	F	F	F	8
12.2	10.8	10.6	10.8	11.0	11.0	u9.5s	u8.0F	F	F	F	FS	9
13.0	12.9	13.0	13.3	13.0	12.5	10.8H	u9.8H	10.1H	S	u10.4F	u9.8s	10
12.8	13.2	12.8	12.2	12.2	11.6	10.7	F	F	F	F	F	11
12.7	13.1	C	14.0	13.4	12.4	u11.6s	10.9	u10.0H	F	u9.4F	F	12
12.8	13.5	14.0	13.8	13.2	12.2H	S	u9.6s	F	10.9	10.8	10.3	13
13.4	14.2	14.0	13.6	12.8	12.6	S	11.3	10.8	10.8	10.8	10.9	14
C	12.0	11.9	11.9	11.6	u11.7s	10.6	FS	F	F	F	F	15
10.7	11.1	11.8	12.6	13.0	13.0	11.8	F	F	F	F	F	16
C	C	C	C	C	u12.2s	u11.6s	10.8	10.4	u10.2s	11.0	11.5	17
11.0	11.0	11.0	12.2	13.0	13.0	12.8	u11.8s	12.2R	u11.6s	11.2	u10.0RS	18
10.8	11.1	11.6	12.0	u12.2s	u11.8s	11.0	u8.5F	F	F	u9.4FS	u9.6s	19
10.8	10.7	10.8	10.8	11.0	10.8	10.6	u10.4F	u10.0s	u9.6RS	F	10.6	20
C	11.1	11.6	12.2	12.3	u11.7s	11.4s	10.7s	10.9	u9.4s	9.1	u9.6s	21
C	u11.7s	12.1	12.3s	C	u10.7s	8.8	F	F	8.2	8.3	8.8	22
11.8	11.7	C	C	C	u9.8s	C	C	u8.4F	18.5k	C	7.9	23
13.0	11.6	10.1	10.0	10.0	9.8	u9.0F	F	F	F	F	F	24
10.4	10.6	10.8	10.8	10.8	10.6	9.2	8.0	F	F	F	F	25
11.4	11.6	C	12.0	12.0	u11.6s	u10.6s	F	F	F	F	F	26
10.8	10.8	11.0	11.2	11.2	u11.3s	10.8	F	F	F	F	F	27
12.8	13.6	14.2	14.2	14.1	13.2	11.4H	F	F	F	F	F	28
11.1	11.7	12.7	13.0	13.2	13.0	12.3H	F	F	F	F	F	29
11.0	11.8	12.6	C	C	13.2	12.4	11.0	F	F	F	F	30
11.3	12.0	12.9	13.1	13.0	12.4	11.2	110.0SF	F	F	F	F	31
27	30	27	28	27	31	28	19	12	12	13	16	Count
11.1	11.6	11.6	12.2	12.2	11.6	10.8	10.0	10.2	9.5	9.6	9.7	Median
11.6	11.7	11.8	12.0	12.3	11.5	10.6	9.7	10.0	9.6	9.7	9.7	Mean

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



Characteristic : fo F1  
 Unit : Mc  
 Month : January 1960

TABLE 2  
 Ionospheric Data  
 75°0'E Mean Time

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

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

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

Characteristic : fo F1  
 Unit : Mc  
 Month : January 1960

TABLE 2 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	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				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
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	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
..	.	.	.	.	.							Count
.	..	.	..									Median
..	..	.	..									Mean

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

Characteristic : fo F1  
 Unit : Mc  
 Month : January 1960

TABLE 2 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

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

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

Characteristic : fo F1  
 Unit : Mc  
 Month : January 1960

TABLE 2 (Contd)  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

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

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

Characteristic : foE  
 Unit : Mc  
 Month : January 1960

TABLE 3  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							C	C	A	A	A	A
2								2.5	A	A	A	A
3								2.6	3.3	A	A	A
4								A	A	A	A	A
5								2.5	A	A	A	A
6								2.5	A	A	A	A
7								2.5	A	A	A	A
8								2.5	3.1	3.4	A	A
9								2.7H	3.2H	3.6	A	A
10								2.4	3.1	3.7H	A	A
11								A	A	A	A	A
12								A	A	A	A	A
13								A	A	A	A	A
14								2.5	A	A	A	A
15								A	A	C	C	A
16								A	A	A	A	A
17								A	A	C	C	C
18								A	A	A	A	A
19								U2.4R	U3.0R	A	A	A
20								2.4	A	A	A	A
21								2.5	3.0	3.3	C	A
22								2.3	A	A	A	A
23								2.3	3.1	A	A	A
24								2.6	A	A	R	A
25								2.5	A	A	A	A
26								A	A	A	A	A
27								2.5	A	A	A	A
28								A	A	A	A	A
29								A	A	A	A	A
30								A	A	A	A	A
31								2.6	A	A	A	A
Count							.	18	7	4	..	..
Median								2.5	3.1	..	.	..
Mean							.	2.5	3.1	.	.	.

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

Characteristic : foE  
 Unit : Mc  
 Month : January 1960

TABLE 3 (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	A							1
A	A	A	A	A	A							2
A	A	A	A	A	A							3
A	A	A	A	A	A							4
												5
A	A	A	A	A	A							6
A	A	A	A	A	A							7
A	A	A	A	A	A							8
A	A	A	A	A	A							9
A	A	A	3.3	A	A							10
A	A	3.7	3.5	A	A							11
A	3.7	3.6	C	A	A							12
3.8	3.8	3.8	A	A	A							13
A	4.0	3.8	A	A	A	A						14
A	A	A	A	A	A							15
A	A	3.8	A	3.2	A							16
C	C	C	C	C	A							17
A	A	A	3.5	3.1	2.6							18
A	A	A	A	A	A							19
A	A	A	A	A	A							20
A	A	A	A	A	A							21
A	C	A	A	A	A							22
A	C	A	A	A	A	C						23
A	A	A	A	A	A							24
A	A	A	A	A	A							25
A	A	A	C	A	A							26
A	A	A	A	A	A							27
A	A	U4.2R	3.8	F	A							28
A	A	3.9	3.7H	3.3	A							29
A	A	A	C	C	C							30
A	A	A	A	A								31
1	3	7	5	3	1	..						Count
..	..	3.8	3.5	.	.	..						Median
..		3.8	3.6	.	.							Mean

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

Characteristic : foE  
Unit : Mc  
Month : January 1960

TABLE 3 (Contd.)  
Ionospheric Data  
75.0°E Mean Time

Latitude : 10.2°N  
Longitude : 77.5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							C	A	A	A	A	A
2								A	A	A	A	A
3							2.2	3.0	A	A	A	A
4							2.2	A	A	A	A	A
5								2.9	3.5	A	A	A
6								3.0	A	A	A	A
7							1.8	A	A	A	A	A
8								3.0 <sub>H</sub>	3.3	A	A	A
9							2.1 <sub>H</sub>	2.9 <sub>H</sub>	3.4	3.8	A	A
10								2.9	3.4	A	A	A
11								A	A	A	A	A
12							1.9	A	A	A	A	A
13								A	A	A	A	A
14								A	A	A	A	A
15								A	A	A	C	A
16								A	A	A	A	A
17							1.9	A	C	C	C	C
18							1.9	A	A	A	A	A
19								C	3.4	A	A	A
20								A	A	A	A	A
21								2.8	A	C	C	A
22								2.7	A	A	A	A
23							1.9	2.8	A	A	A	A
24								U3.2 <sub>R</sub>	A	A	A	A
25								3.1	A	A	A	A
26								U3.2 <sub>A</sub>	A	A	A	A
27								A	A	A	A	A
28								A	A	A	A	A
29								A	A	A	A	A
30							R	A	A	A	A	A
31								A	A	A	A	A
Count							8	12	5	1	.	..
Median							1.9	3.0	3.4	.		.
Mean							2.0	3.0	3.4	..	.	

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

Characteristic : foE  
 Unit : Mc  
 Month : January 1960

TABLE 3 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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



Characteristic : foEs  
Unit : Mc  
Month : January 1960

TABLE 4  
Ionospheric Data  
75 0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	C						C	C	11·0	11·8	12·6	12·6
2	4·4							7·8	10·8	12·2	12·4	12·4
3								G	G	12·0	12·4	12·6
4								7·4	8·6	11·4	11·8	11·4
5	3·0							8·0	10·0	11·0	12·0	12·4
6				4·0				5·4	9·8	10·4	12·6	12·8
7	8·0	4·0						G	8·8	10·8	12·2	12·8
8	u7·0s							G	8·0	4·5	9·8	12·0
9								G	8·0	G	11·8	13·2
10								3·2	G	7·0	11·8	10·6
11								8·5	9·0	10·6	11·0	9·2
12								6·6	10·6	10·8	12·2	11·8
13								9·2	10·7	11·2	12·5	11·8
14								G	10·6	10·2	11·7	11·2
15								6·6	10·4	C	C	12·6
16	4·0	4·0						7·0	10·4	12·0	12·4	12·8
17	2·2							4·0	9·6	C	C	C
18								u5·0s	10·8	11·0	12·4	13·2
19								G	7·0	12·0	13·2	13·0
20								G	11·0	12·0	12·0	12·0
21								G	G	G	C	12·1
22	u4·2s							G	u5·0s	8·8	11·8	10·8
23								G	u6·9s	10·6	12·0	C
24								G	5·7	5·0	G	11·6
25		5·8						G	9·8	10·7	12·6	12·2
26								u6·4s	9·6	11·8	12·0	12·4
27								S	10·6	11·4	13·0	14·0
28								S	u12·0s	12·0	13·4	13·0
29								S	u11·0s	12·0	12·6	12·0
30								S	12·0	12·0	12·6	13·4
31								S	11·0	12·0	12·2	12·2
Count	7	3		1			.	25	31	29	28	29
Median	4·2	.		.			..	3·2	9·8	11·0	12·2	12·4
Mean	4·7	..		..				6·5	9·6	10·6	12·2	12·2

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

Characteristic : foEs  
Unit : Mc  
Month : January 1960

TABLE 4 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.4	12.0	11.4	9.8	7.0	8.0					5.0	8.6	1
12.2	11.4	10.0	10.0	8.6	7.0s							2
12.8	11.6	12.2	11.4	11.0	7.6							3
12.0	12.4	12.4	11.0	9.0	6.8					3.4		4
12.0	12.6	12.0	10.8	9.4	7.0			4.0				5
12.0	12.6	11.8	10.0	10.6	8.0							6
12.6	12.0	12.0	11.4	11.2							7.0s	7
11.0	12.0	12.0	10.8	11.6	8.2					3.8	3.8	8
12.6	13.0	12.6	12.2	10.2	7.8							9
14.0	11.6	14.0	4.3	8.7	7.8							10
9.4	9.8	G	G	8.8	6.8							11
11.2	5.8	7.4	C	8.8	7.5				3.4			12
7.8	G	5.8	10.8	9.0	6.6							13
10.3	G	11.2	10.8	9.0	7.6	3.8						14
12.4	11.6	10.8	9.8	9.2	6.8		3.4		2.3			15
13.0	12.6	6.0	7.0	G	6.8							16
C	C	C	C	C	7.0	1.5		2.4	3.8	7.0		17
13.4	12.4	12.0	G	G	G							18
13.6	12.4	12.3	11.0	9.6	7.0							19
12.0	13.0	12.8	12.0	10.0	8.0					3.6		20
11.8	11.1	12.0	12.2	10.7	7.0s					4.8s	7.0s	21
12.1	C	12.6	11.1	9.0s	7.0s							22
13.2	C	12.6c	12.0	10.4	7.0s	C				C		23
10.7	12.6	12.8	11.6	8.6	8.0							24
11.6	11.6	11.8	10.8	10.8s	7.4s							25
12.0	12.6	12.6	C	10.6	7.8					5.3		26
13.4	13.4	13.0	12.0	10.0	7.0							27
13.2	11.0	G	G	8.0	7.0							28
13.0	11.6	G	G	G	7.0							29
13.0	12.6	9.8	C	C	C					2.4		30
12.0	11.0	10.8	9.2	9.2	8.0							31
30	28	30	27	29	29	2	1	2	3	8	4	Count
12.2	12.0	12.0	10.8	9.2	7.5	..	.	.	.	4.3	..	Median
12.1	11.8	11.4	10.5	9.6	7.4	.	..			4.4	.	Mean

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

Characteristic : foEs  
Unit : Mc  
Month : January 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							C	8·0	11·0	12·4	12·8	12·4
2	5·2							9·4	11·4	12·6	12·8	12·8
3		2·8					G	G	9·6	12·6	13·0	12·8
4							G	9·0	10·0	11·6	12·4	11·8
5								G	G	12·0	11·4	12·4
6				2·2	3·5			G	8·8	12·0	12·4	12·4
7	3·6						G	∇7·0s	10·4	12·0	12·8	13·0
8	4·0							6·4	8·6	9·8	11·0	13·0
9							G	G	8·8	8·8	14·0	12·8
10							3·6	G	G	9·6	12·0	11·0
11								9·2	9·2	11·4	11·0	8·1
12							G	9·0	10·6	12·8	12·2	12·8
13					3·6			9·2	10·5	12·3	11·8	8·0
14								6·8	10·7	11·6	10·6	10·8
15								6·6	10·6	10·6	C	12·6
16	1·8							9·4	10·6	12·0	13·0	12·2
17							G	9·0	C	C	C	C
18							G	∇8·0s	11·0	13·0	12·4	13·0
19								C	10·0	13·0	13·4	13·0
20								9·0	10·0	12·6	12·0	12·0
21								G	3·2	C	C	11·8
22	3·0							G	5·8	10·3	11·0	12·0
23							G	G	8·4	12·0	13·0	12·0
24								G	5·6	8·3	11·8	11·2
25	4·8							G	∇9·8s	12·6	12·8	11·6
26								∇6·8s	9·8	12·6	12·0	12·8
27								11·0	12·0	12·4	13·0	13·0
28								∇10·0s	11·4	12·6	13·0	14·0
29								10·0	11·6	13·0	12·6	12·0
30							G	9·0	12·0	12·0	13·0	13·0
31								10·0	12·0	12·0	12·6	13·2
Count	6	1	1	1	1		10	30	30	29	28	30
Median	3·8	.	.	.	.		G	7·5	10·0	12·0	12·5	12·4
Mean	3·7	.	..	.	.		..	8·1	9·8	11·7	12·4	12·1

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

Characteristic : foEs  
Unit : Mc  
Month : January 1960

TABLE 4 (Contd.)  
Ionospheric Data  
75.0°E Mean Time

Latitude : 10.2°N  
Longitude : 77.5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.0	11.8	10.0	8.8	G					3.8	6.0	6.0	1
11.8	11.0	9.8	8.2	10.0								2
12.4	12.0	11.0	11.4	9.0								3
12.4	12.4	10.8	10.6	8.0							3.6	4
12.4	12.0	10.4	9.8	9.0	G	4.4		4.0				5
12.2	12.6	10.2	10.0	8.4								6
11.8	12.8	11.8	11.4	8.6							4.0	7
12.0	12.8	11.4	10.8	10.2					2.2	4.0		8
13.0	12.2	11.4	11.4	8.4								9
12.4	G	8.8	10.8	8.4								10
7.8	10.8	7.8	G	7.0	G							11
6.6	5.8	C	7.8	7.8				3.8	3.7			12
G	7.8	6.8	9.6	7.8				1.8				13
9.2	11.6	11.0	9.6	8.6	5.6			5.6				14
C	12.0	10.6	10.4	7.8	3.4			1.9				15
13.2	11.0	7.0	6.2	3.2					1.8			16
C	C	C	C	C	G				u5.0s	u6.0s		17
13.0	11.6	G	G	G								18
14.0	13.0	10.8	9.0	8.6								19
13.0	12.4	11.0	11.6	9.2								20
12.2	11.8	u12.0s	u11.0s	u9.6s	u4.0s				u5.0s	u4.0s	u8.8s	21
C	13.4	11.2	3.4	C	2.0							22
14.6	13.6	C	C	C		C	C		C			23
12.6	12.8	12.6	9.4	7.7	5.2							24
11.6	12.0	10.8	10.8	8.6	3.8							25
12.6	12.8	C	12.0	9.8	5.8				4.2	4.0		26
13.0	12.0	12.0	10.0	8.4	3.0					1.8		27
11.0	G	G	7.0	8.2								28
12.6	10.0	13.0	7.0	8.0	S			4.0				29
12.2	11.0	G	C	C	2.2							30
12.0	11.0	10.8	9.8	9.0	4.0							31
28	30	27	28	27	13	1	..	6	7	6	4	Count
12.3	12.0	10.8	9.8	8.4	3.4	..	..	3.9	3.8	4.0	..	Median
12.0	11.6	10.5	9.5	8.4	3.9	.	..	3.5	3.7	4.3	..	Mean

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

Characteristic : fbEs  
 Unit : Mc  
 Month : January 1960

TABLE 5  
 Ionospheric Data  
 75.0 E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	C						C	C	3.1	3.8	4.0	4.0
2	1.7							2.6	3.2	3.6	4.0	3.9
3								G	G	3.7	4.0	4.1
4								2.5	3.2	3.5	3.9	4.0
5								2.5	3.1	3.6	4.1	3.9
6				1.3				2.6	3.2	3.6	3.8	4.0
7	2.2							G	3.2	3.6	3.9	4.2
8	2.2							G	.	4.0	4.0	4.0
9								G	.	G	4.0	4.2
10								2.5	G	3.7	3.9	4.2
11								2.5	3.0	3.5	3.7	3.9
12								2.6	3.2	3.5	3.8	4.0
13								2.5	3.2	3.6	3.8	4.2
14								G	3.2	3.6	3.8	4.2
15								2.4	3.1	C	C	4.0
16	1.5							2.5	3.2	3.6	4.0	4.0
17								2.5	3.1	C	C	C
18								2.6	3.2	3.6	4.0	4.2
19								G	.	3.4	3.8	4.0
20								G	3.2	3.6	4.0	4.0
21								G	G	G	C	4.0
22	2.3							G	3.0	3.4	4.0	4.0
23								G	3.0	3.5	3.8	4.0
24								G	3.2	3.7	G	4.2
25		1.8						G	3.2	3.7	4.2	4.2
26								2.6	3.3	3.8	4.0	4.2
27									3.2	3.8	4.0	4.2
28								2.6	3.4	3.8	4.1	4.2
29								2.6	3.3	3.9	4.2	4.2
30								2.6	3.2	3.7	4.0	4.2
31									3.2	3.7	4.0	4.2
Count	5	1		1			..	28	28	29	28	30
Median	2.2	..		.			..	2.5	3.2	3.6	4.0	4.0
Mean	2.0	..		.				2.5	3.2	3.6	4.0	4.1

Sweep 1.0 Mc. to 23.0 Mc. in 27 seconds.

Characteristic : fb Es  
 Unit : Mc  
 Month : January 1960

TABLE 5  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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

Characteristic · fbEs  
Unit : Mc  
Month : January 1960

TABLE 5 (Contd.)  
Ionospheric Data  
75·0° Mean Time

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

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

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

Characteristic : fb Es  
 Unit : Mc  
 Month : January 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
4.2	4.0	3.8	3.3	G					1.5	1.6	1.9	1
4.2	4.0	3.6	3.3	2.8								2
4.2	4.0	3.9	3.3	2.9								3
4.2	4.0	3.8	3.3	3.0							1.7	4
4.2	4.0	3.6	3.3	2.9	G							5
4.2	4.1	3.8	3.3	2.8								6
4.1	4.1	3.7	3.4	3.0							2.0	7
4.1	4.2	3.8	3.4	2.9					1.3			8
4.2	4.0	3.6	3.4	2.8								9
4.2	G	4.3	3.4	3.0								10
4.2	4.0		G	3.0	G							11
4.2	3.9	C	3.3	2.9				1.6	1.8			12
G	4.0	3.7	3.4	2.9				1.8				13
4.2	4.1	4.1	3.6	2.8	2.0							14
C	4.0	3.6	3.4	3.0								15
4.2	4.2	4.0	3.4	3.0								16
C	C	C	C	C	G				1.4	2.0		17
4.2	4.0	G	G	G								18
4.4	4.0	3.7	4.2	2.9								19
4.2	4.2	3.8	3.4	3.0								20
4.1	4.1	3.8	3.4	3.0	2.0					2.0	2.7	21
C	4.4	3.8	3.4	C	2.0							22
4.2	4.2	C	C	C		C	C			C		23
4.2	4.2	4.0	3.5	3.0								24
4.2	4.2	4.0	3.6	3.0								25
4.2	4.2	C	3.5	3.0	2.2							26
4.2	4.2	4.0	3.6	3.1								27
4.3	G	G	..	3.4								28
4.2	4.2	7.0	3.7	3.0	2.3			1.6				29
4.2	4.2	G	C	C								30
4.2	4.0	3.8	3.6	3.1								31
28	30	26	27	27	8	.	.	3	4	3	4	Count
4.2	4.0	3.8	3.4	3.0	2.0	.	..	..	.	..	..	Median
4.2	4.1	4.0	3.5	3.8	2.1	..	.	..	.	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.



Characteristic : fmin  
Unit : Mc  
Month : January 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	C	1.3	1.3	1.2	1.4	1.2	C	C	2.0	2.3	2.4	2.9
2	1.4	1.6	1.5	1.4	1.6	1.6	1.5	1.7	2.0	2.3	2.5	2.5
3	1.3	1.4	1.2	1.4	1.4	1.6	1.7	1.8	2.0	2.4	2.6	2.6
4	1.4	1.5	1.6	1.5	1.6	1.4	1.5	1.5	1.9	2.1	2.5	2.6
5	1.0	1.6	1.7	1.3	1.4	1.5	1.6	1.8	C	2.2	2.5	2.5
6	1.4	1.3	1.2	E	1.2	1.1	1.4	1.8	1.8	2.2	2.4	2.5
7	1.3	1.1	1.4	1.3	1.2	1.2	1.3	1.6	1.7	2.3	2.4	2.6
8	2.0	1.7	1.5	1.4	1.2	1.4	1.6	1.7	2.1	2.4	2.4	2.7
9	1.3	1.5	1.0	1.0	1.3	1.2	1.6	1.6	2.1	2.8	2.4	2.6
10	1.2	1.2	1.2	1.1	1.2	1.2	1.5	1.7	1.8	2.3	2.6	2.6
11	1.3	1.4	1.1	E	1.3	1.3	1.4	1.7	2.0	2.2	2.3	2.5
12	1.6	1.4	1.1	1.3	1.2	1.4	1.5	1.7	1.7	2.2	2.3	2.3
13	1.6	1.2	1.3	1.3	1.2	1.3	1.7	2.0	2.0	2.3	2.3	2.5
14	1.2	1.2	1.1	1.2	1.6	1.4	1.5	1.8	2.0	2.3	2.5	3.0
15	1.1	1.1	1.1	1.3	1.3	E	1.2	1.8	2.2	C	C	2.6
16	1.3	1.8	2.0	2.2	1.6	E	1.5	1.8	1.9	2.3	2.4	2.6
17	1.4	1.2	1.4	1.5	1.2	1.4	1.6	1.4	1.6	C	C	C
18	1.3	E	E	E	1.3	1.4	1.3	1.5	1.8	2.1	2.2	2.4
19	1.1	1.2	1.1	1.2	1.2	1.2	1.4	1.8	2.0	2.2	2.4	2.6
20	1.2	1.4	1.1	1.1	1.3	1.3	1.4	1.8	1.8	2.0	2.2	2.2
21	1.4	1.2	1.1	1.3	1.1	1.2	1.3	1.9	2.1	2.4	C	2.3
22	1.4	1.5	1.2	1.3	1.1	1.3	1.4	1.8	1.8	2.2	2.4	2.6
23	1.4	1.0	1.4	1.1	1.1	1.6	1.4	1.9	2.0	2.2	u2.4c	2.6
24	1.3	1.3	1.1	1.2	1.4	1.3	1.5	1.7	2.2	2.4	2.8	2.7
25	1.4	1.3	1.6	1.1	1.4	1.2	1.5	1.7	2.0	2.3	2.4	2.6
26	1.3	1.2	1.2	1.7	1.6	1.7	1.5	1.5	1.9	2.2	2.6	2.9
27	1.3	1.1	1.2	1.1	E	1.3	1.5	1.6	1.8	2.2	2.4	2.6
28	1.4	1.2	1.2	1.2	1.4	1.4	1.5	1.4	1.7	2.2	2.4	2.6
29	1.3	1.1	1.4	1.6	1.6	1.3	1.7	1.6	1.6	2.2	2.5	2.7
30	E	1.1	1.4	1.4	1.5	1.3	1.4	1.3	1.7	2.1	2.2	2.5
31	1.2	1.3	1.3	1.5	1.2	1.3	1.4	1.7	1.9	2.2	2.4	2.6
Count	30	31	31	31	31	31	30	30	30	29	28	30
Median	1.3	1.3	1.2	1.3	1.3	1.3	1.5	1.7	1.9	2.2	2.4	2.6
Mean	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.7	1.9	2.3	2.4	2.6

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

Characteristic : fmin  
Unit : Mc  
Month : January 1960

TABLE 6  
Ionospheric Data  
75.0°E Mean Time

Latitude : 10.2°N  
Longitude . 77 5°E

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

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : fmin  
Unit : Mc  
Month : January 1960

TABLE 6 (Contd.)  
Ionospheric Data  
75.0°E Mean Time

Latitude : 10.2°N  
Longitude : 77.5°E

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

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

Characteristic : fmin  
Unit : Mc  
Month : January 1960

TABLE 6 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

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

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

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

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

TABLE 7  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							C	C	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	270
14								L	L	L	L	L
15								L	L	C	C	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	C	L
22									L	L	L	L
23									L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L <sub>Es</sub>
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
Médian							.	.	.	..	..	..
Mean							..	..	..	..	.	..

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

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

TABLE 7 (Contd.)  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	410	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	370	405	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
.	2	1	..	..	..							Count
..	..	..	..	..	..							Median
.	..	..	..	..	..							Mean

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

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

TABLE 7 (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							C	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	L
7							L	L	L	L	L	L
8								L	L	L	L	L
9							L	L	L	L	L	L
10							L	L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	C	L
16								L	L	L	L	L
17								L	C	L	L	L
18								L	L	L	L	L
19								C	L	L	L	L
20								L	L	L	L	L
21								L	L	C	C	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L <sub>h</sub>	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Count							..	..	..	..	..	..
Median							..	..	..	..	..	..
Mean							..	..	..	..	..	..

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

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

TABLE 7 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

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

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



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

TABLE 8  
Ionospheric Data  
75°0'E Mean Time

Latitude : 10.2°N  
Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	C	260	225	220	220	220	C	C	240	215	210	205
2	280	275	255	220	220	225	280	245	235	220	220	200
3	240	245	240	230	215	220	260	240	220	220	200	220
4	215	215	220	200	210	225	280	240	225	220	215	200
5	220	215	215	240	220	215	240	240	220	215	200	200
6	225	250	245	260	230	235	265	250	240	220	210	200 <sub>H</sub>
7	U240 <sub>F</sub>	220	220	220	220	215	230	230	230	205	200	190 <sub>H</sub>
8	245	235	240	230	215	200	235	240	225	210	205	200
9	U245 <sub>F</sub>	U230	U220 <sub>F</sub>	U220 <sub>F</sub>	240	U250 <sub>F</sub>	230	240	240	230	210 <sub>H</sub>	200 <sub>H</sub>
10	220	235	U255 <sub>F</sub>	U260 <sub>F</sub>	U250 <sub>F</sub>	235	255	250	240	225	215	205
11	260	255	225	260	270	280	310	250	230	210	205	205
12	245	250	250	250	230	220	270	260	235	225	210	205
13	240	230	220	220	240	255	265	255	225	210	200	200
14	230	225	215	230	260	270	255	250	230	220	210	210
15	205	210	210	205	240	330	300 <sub>H</sub>	260	235	C	C	205 <sub>H</sub>
16	240	240	220	240	240	E	320	260	235	220	215	200
17	300	260	240	220	220	240	260	250	235	C	C	C
18	240	220	220	220	220	225	260	240	230	220	210	200
19	220	240	230	220	220	220	280	240	230	220	210	200
20	240	240	220	220	223	220	260	240	230	210	200	195
21	220	235	250	235	260	245	255	225	230	215	C	205
22	260	230	240	230	225	215	250	250	225	210	210	200 <sub>H</sub>
23	240	250	270	240	235	230	230	250	230	220	210	205
24	240	220	240	235	230	230	240	250	240	225	205 <sub>H</sub>	215 <sub>H</sub>
25	260	300	280	270	245	240	235	250	235	225	215 <sub>H</sub>	205 <sub>H</sub>
26	260	240	230	220	235	240	270	260	235	225	210	200 <sub>H</sub>
27	300 <sub>F</sub>	260	230	240	235	230	255	260	230	220	220	210
28	290	240	220	210	215	240	300	260	240	230	220	220
29	260 <sub>F</sub>	250	240	240	220	220	260	250	230	220	210	200
30	300	240	220	205	220	220	260	260	240	220	220	200
31	265	245	235	220	210	215	240	250	240	230	210	220
Count	30	31	31	31	31	31	30	30	31	29	28	30
Median	240	240	230	230	225	230	260	250	230	220	210	200
Mean	250	240	235	230	230	235	260	250	230	220	210	205

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

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

TABLE 8 (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
200	205 <sub>H</sub>	205	220	230	260	300	F	F	F	F	250	1
200	205	200	220	240	260	300	375	375	380	F	290	2
200	200	220	225	240	260	305	F	F	300	290	245	3
200	180 <sub>H</sub>	200	220	240	260	300	320	270	235	230	235	4
190	205	200	220	240	260	300	F	290	235	215	215	5
200 <sub>H</sub>	200 <sub>H</sub>	210 <sub>H</sub>	220	230	250	285	355	U340 <sub>F</sub>	U315 <sub>F</sub>	265	225	6
205	210	210	215 <sub>H</sub>	230	260	300	405 <sub>F</sub>	U380 <sub>F</sub>	U300 <sub>F</sub>	270	250	7
200 <sub>H</sub>	200 <sub>H</sub>	205	210	220	260 <sub>F</sub>	300	U400 <sub>F</sub>	F	U400 <sub>F</sub>	U350 <sub>F</sub>	U300 <sub>F</sub>	8
200 <sub>H</sub>	205	220	225	240	260	300	U380 <sub>F</sub>	U310 <sub>F</sub>	F	U305 <sub>F</sub>	U265 <sub>F</sub>	9
200 <sub>H</sub>	205 <sub>H</sub>	210	205 <sub>H</sub>	240	265 <sub>H</sub>	305	365	340 <sub>F</sub>	255	255	280	10
220	225	220	225	240	265	295	370	325	270	260	245	11
200 <sub>H</sub>	210	210	C	235	255	285	335	360	320	305	280	12
205	210	215	220	225	255	280	F	U315 <sub>F</sub>	265	230	230	13
215	200 <sub>H</sub>	U230 <sub>A</sub>	A	220	245 <sub>H</sub>	285	285	250	240	220	225	14
210	220	220	215	240	260	300	385	F	F	U270 <sub>F</sub>	270	15
200	200	225	230	240	260	300	380	U400 <sub>F</sub>	U300 <sub>F</sub>	280	305	16
C	C	C	C	C	260	300	320	300	300	275	260	17
200	200	220	220	240	245	280	340	300	260	220	210	18
200	200	220	220	235	260	290	380	U380 <sub>F</sub>	U280 <sub>F</sub>	245	240	19
200	200	210	220	230	260	300	340	300	250	260	240	20
205	200	205	220	240	260	300	280	230	220	255	260	21
195 <sub>H</sub>	C	200 <sub>H</sub>	220	240	265	305	400	320	270	240	240	22
200	C	215	225	240	260	C	395	U355 <sub>F</sub>	280	C	240	23
200 <sub>H</sub>	200 <sub>H</sub>	200 <sub>H</sub>	200 <sub>H</sub>	240	260	300	F	U250 <sub>F</sub>	F	240	245	24
200 <sub>H</sub>	200 <sub>H</sub>	215 <sub>H</sub>	235	245	265	300	400	U395 <sub>F</sub>	U270 <sub>F</sub>	F	U280 <sub>F</sub>	25
200 <sub>H</sub>	210 <sub>H</sub>	205 <sub>H</sub>	C	240	265	315	F	F	F	F	F	26
210	200	200	210	240	260	300	430	490 <sub>F</sub>	440 <sub>F</sub>	420 <sub>F</sub>	290 <sub>F</sub>	27
215	205	215	220	240	260	300	400 <sub>F</sub>	310 <sub>F</sub>	300 <sub>F</sub>	400 <sub>F</sub>	350	28
190	220	220	220	220	250	300	410	390	320	300	320	29
200	200	200	C	C	C	300	390 <sub>F</sub>	400 <sub>F</sub>	420 <sub>F</sub>	340 <sub>F</sub>	300	30
210	205	200	210	225	255	300	420	400 <sub>F</sub>	420	360 <sub>F</sub>	340	31
30	28	30	26	29	30	30	25	26	26	26	30	Count
200	200	210	220	240	260	300	380	330	290	270	255	Median
200	205	210	220	235	260	300	370	340	300	280	265	Mean

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

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

TABLE 8 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	275	240	220	220	220	240	C	240	220	215	205	205
2	280	260	225	205	210	235	260	240	220	215	205	200
3	255	250	245	220	210	220	245	235	220	200	200	205
4	215	215	200	205	215	240	260	240	220	205	200	205
5	220	215	220	240	215	205	250	235	215	210	200	200
6	240	245	240	250	220	245	255	240	230	220	205	205H
7	235	220	220	220	220	210	250	230	220	220	200H	200
8	240	240	240	220	205	205	245	230	220	205	205	195H
9	U260F	U220F	U220F	U235F	U260F	220F	250	230	230	220	200H	200H
10	225	U240F	U245F	255	240	230	265	240	230	220	205	200H
11	265	225	225	265	280	280	270	240	225	215	215	200H
12	255	245	255	245	225	225	270	245	225	220	215	200
13	235	225	225	225	260	245	275	240	215	200	200	205
14	220	210	220	240	275	250	270	235	225	210	205	210
15	200	230	210	240	285	370	280	245	220	220	C	205H
16	240	235	225	240	280	E	280	240	225	220	200	200
17	280	240	220	220	220	240	260	240	C	C	C	C
18	240	220	220	220	220	240	260	220H	220	220	205	200
19	240	220	240	220	220	240	260	C	220	210	200	200
20	240	235	220	220	220	220	260	240	220	200	195	200
21	220	230	235	240	260	240	235	235	220	C	C	205
22	245	230	235	220	220	220	255	235	225	200H	200H	205H
23	245	265	260	235	235	220	260	240	225	215H	205H	205
24	235	240	250	230	235	220	265	245	230	220	210H	210
25	280	285	270	250	240	225	265	240	220	220	210H	200H
26	240	235	225	230	240	235	275	245	225	215	215	200H
27	280	240	240	240	240	220	270	240	225	220	210	210
28	250	235	220	215	230	250	290	250	240	220	210	210
29	260	260	240	230	230	225	270	245	220	210	210	200
30	260	230	210	200	220	225	280	245	230	205	200H	200
31	260	240	230	215	210	220	270	240	230	220	200	210
Count	31	31	31	31	31	31	30	30	30	29	28	30
Median	240	235	225	230	225	230	260	240	220	215	205	200
Mean	245	235	230	230	235	235	265	240	225	215	205	205

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

Characteristic : h'F  
Unit : Km  
Month : January, 1960

TABLE 8 (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
200H	210	220	235	240	280	355	F	F	300	F	260	1
200	200	220	225	245	280	340	F 380	F 380	F	F 290	260	2
200H	210	220	230	240	280	350	F	F	300	260	225	3
200	195H	210	230	240	270	325	F 300	F 240	235	235	235	4
195	200	200	225	245	275	320	F	F 250	220	220	220	5
200H	200H	220	225H	240	270	310	365F	U330F	290F	250	230	6
205	210	210	210H	245	275	350	U400F	U370F	U305F	260	240	7
200H	200	205	220	240	270	360	U450F	U400F	U400F	U320F	U290F	8
210	220	220	230	250	270	360	F	F	F	U250F	U230F	9
205H	220	U230A	230	245	280H	345	365	300	245	280	265	10
220	225	225	215	255	275	335	U360F	260	255	240	245	11
200	205	C	220	250	270	315	355	350	320	280	260	12
205	215	210	225	240	270	310	F	U300F	240	225	235	13
205	210	220	220	220H	260	295	260	240	235	215	225	14
C	220	220	220	260	280	350	380F	365	U305F	275	260	15
200	220	220	235	245	270	340	U400F	U340F	290	300	305	16
C	C	C	C	C	265	315	340	280	280	260	260	17
200	200	220	220	240	260	310	330	280	240	220	210	18
200	200	220	A	240	280	340	U380F	360F	260F	235	240	19
205	215	220	220	240	270	320	320	260	245	240	230	20
200	205	215	230	250	275	305	255	220	240	265	280	21
C	225	200	225	C	285	360	375F	285	255	240	240	22
205	210	C	C	C	280	C	C	320F	260	C	240	23
200H	200H	200H	210H	250	275	F	F	260	U240F	240	250	24
200H	195H	230	230	255	280	355	F	U380F	U270F	U310F	280	25
200H	205	C	225	250	280	375	F	F	F	F	F	26
200	195H	220	230	255	280	360	F	440	440F	320F	320F	27
210	205	210	240	250	270	370	420F	300F	300F	360	310F	28
190H	230	A	225	240	270	360	420	360	300	315	330F	29
210	200	210	C	C	275	360	390F	420F	400F	290F	270	30
210	200	200	220	240	270	355	420	420	380	280	300	31
28	30	26	27	27	31	29	21	27	28	28	30	Count
200	205	220	225	245	275	345	375	320	275	260	255	Median
205	210	215	225	245	275	340	365	325	290	265	260	Mean

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

Characteristic : h'E  
 Unit : Km  
 Month : January, 1960

TABLE 9  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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

Characteristic : h'E  
 Unit : Km  
 Month : January, 1960

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

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

Characteristic : h'E  
Unit : Km  
Month : January, 1960

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

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : h'E  
Unit : Km  
Month : January, 1960

TABLE 9 (Contd.)  
Ionospheric Data  
75.0°E Mean Time

Latitude : 10.2°N  
Longitude : 77.5°E

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

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



Characteristic : h'Es  
Unit : Km  
Month : January, 1960

TABLE 10  
Ionospheric Data  
75·0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	C						C	C	100	100	100	100
2	105							100	100	100	100	100
3								G	G	100	100	100
4								100	100	100	100	100
5	115							100	100	100	100	100
6				105				140	100	100	100	100
7	100	120						G	100	100	100	100
8	100							G	165	120	100	100
9								G	140	G	100	100
10								150	G	110	100	100
11								100	100	100	100	100
12								105	100	100	100	100
13								100	100	100	100	100
14								G	100	100	100	100
15								105	100	C	C	100
16	105	105						100	100	100	100	100
17	120							100	100	C	C	C
18								100	100	100	100	100
19								G	100	100	100	100
20								G	100	100	100	100
21								G	G	G	C	100
22	110							G	100	100	100	100
23								G	110	100	100	100
24								G	100	100	G	100
25		100						G	100	100	100	100
26								100	100	100	100	100
27								100	100	100	100	100
28								100	100	100	100	100
29								100	100	100	100	100
30								100	100	100	100	100
31								100	100	100	100	100
Count	7	3	.	1	..	.		18	28	27	27	30
Median	105		..	.	..	.	..	100	100	100	100	100
Mean	110	.	..	..	.	.	.	105	105	100	100	100

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

Characteristic : h'Es  
Unit : Km  
Month : January, 1960

TABLE 10 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

Latitude: 10 2°N  
Longitude: 77·5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	100					105	105	1
100	100	100	100	100	100							2
100	100	100	100	100	100							3
100	100	100	100	100	100					100		4
100	100	100	100	100	100			100				5
100	100	100	100	100	100							6
100	100	100	100	100	100						100	7
100	100	100	100	100	100					100	105	8
100	100	100	100	100	110							9
100	100	100	120	100	105							10
100	100	G	G	100	105							11
100	100	100	C	100	100				110			12
100	G	105	100	100	105							13
100	100	110	100	100	100	135						14
100	100	100	100	100	105		125		115			15
100	100	100	100	G	100							16
C	C	C	C	C	100	140		135	120	120		17
100	100	100	G	G	G							18
100	100	100	100	100	105							19
100	100	100	100	100	110					100		20
100	100	100	100	100	105					100	100	21
100	C	100	100	100	115							22
100	C	100	100	100	100	C				C		23
100	100	100	100	100	100							24
100	100	100	100	100	100							25
100	100	100	C	100	110					115		26
100	100	100	100	100	110							27
100	100	G	G	100	110							28
95	100	G	G	G	100							29
100	100	100	C	C	C					120		30
100	100	100	100	100	100							31
30	27	27	23	26	28	2	1	2	3	8	4	Count
100	100	100	100	100	100	.	.	.	.	100	..	Median
100	100	100	100	100	105	.	..	..	..	110	..	Mean

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

Characteristic : h'Es  
Unit : Km  
Month : January, 1960

TABLE 10 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

Latitude: 10°2'N  
Longitude: 77°5'E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							C	100	100	100	100	100
2	100							100	100	100	100	100
3		105					G	G	100	100	100	100
4							G	100	100	100	100	100
5								G	G	100	100	100
6			100	100				G	100	100	100	100
7	100						G	100	100	100	100	100
8	100							185	105	100	100	100
9							G	G	120	100	100	100
10							135	G	G	100	100	100
11								100	100	100	100	100
12							G	100	100	100	100	100
13					110			100	100	100	100	100
14								100	100	100	100	100
15								105	100	100	C	100
16	100	100	100					100	100	100	100	100
17							G	100	C	C	C	C
18							G	100	100	100	100	100
19								C	100	100	100	100
20								100	100	100	100	100
21								G	100	C	C	100
22	115							G	100	100	100	100
23							G	G	100	100	100	100
24								G	100	100	100	100
25	100							G	100	100	100	100
26								100	100	100	100	100
27								100	100	100	100	100
28								100	100	100	100	100
29								100	100	100	100	100
30							G	100	100	100	100	100
31								100	100	100	100	100
Count	6	2	2	1	1	.	1	20	28	29	28	30
Median	100	..	..	..	..		.	100	100	100	100	100
Mean	100	..	.	.	.	..	.	105	100	100	100	100

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

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

TABLE 10 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

Latitude: 10·2°N  
Longitude: 77·5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	G					110	105	105	1
100	100	100	100	100								2
100	100	100	100	100								3
100	100	100	100	100							115	4
100	100	100	100	100	G	120		100				5
100	100	100	100	100								6
100	100	100	100	100							105	7
100	100	100	100	100					100	100		8
100	100	100	100	105								9
100	G	100	100	105								10
100	100	105	G	105	G							11
100	100	C	100	100				110	105			12
G	110	100	100	100				110				13
100	100	100	100	100	120							14
C	100	100	100	105	140			115			105	15
100	100	120	120	120					135			16
C	C	C	C	C	G				120	120		17
100	100	G	G	G								18
100	100	100	100	100								19
100	100	100	100	100								20
100	100	100	100	100	115				105	110	100	21
C	100	100	100	C	125							22
100	100	C	C	C		C	C			C		23
100	100	100	100	100	140							24
100	100	100	100	100	100							25
100	100	C	100	100	110				125	115		26
100	100	100	100	100	140					110		27
100	G	G	130	100								28
100	100	100	100	100	110							29
100	100	G	C	C	150							30
100	100	100	100	100	100							31
27	28	24	26	25	11	1	.	4	7	6	5	Count
100	100	100	100	100	120	.	..	.	110	110	105	Median
100	100	100	100	100	125	..	..	..	115	110	105	Mean

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

Characteristic : (M 3000 2F)

Unit :.

Month : January 1960

TABLE 11  
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	C	F	3 10	3 10	3 25	3 30	C	C	2 70	2·30	2·40	2 35
2	F	F	F	F	3 30	3 30	2 75	2 80	2·60	2 40	2 40	2 30
3	2 70	F	F	3 05	3 20	3 40	2·85	3 10	3·00	2 70	2 10 <sub>H</sub>	2 30
4	3 05	3 05	3 20	3 25	3·30	3 20	2 70	2 90	2 75	2·40	2 30	2 40
5	3 05	3 05	3 15	3 05	3 20	3 30	2·80	3·10	2 80	2·40	2 40	2·35
6	3·05	2 95	2 95	2 90	3·20	3 20	2 90	3 00	2 85	2 55	2·30	2 20
7	3 00	3 05	3 00	3 00	3 15	3 25	3 20	3·05	2·80	2·50	2·25	2 15
8	2 80 <sub>L</sub>	2·70	2 75	2 85	F	3 25	2·90	3·20	3 15	2 90	2·65	2 50
9	F	F	F	F	2 90 <sub>F</sub>	F	3 05 <sub>F</sub>	3 10 <sub>F</sub>	3 10	2 90	2 70	2 40
10	U2·95 <sub>F</sub>	2·85	F	F	F	U3 10 <sub>F</sub>	3 00	3 10	2 95	2 80	2·60	2 50
11	2 40	U2 50 <sub>F</sub>	3·00	2 95	U2·85 <sub>s</sub>	J2 85 <sub>s</sub>	2 70	2·75	2 65	2·50	2 50	2 40
12	F <sub>s</sub>	U2 80 <sub>F</sub>	F	3·00	3 10	3·25	2·65	2·75	2 60	2·50	2 45	2 35
13	2 65 <sub>F</sub>	2·80	3 05	3·15	3·10	3 15	2 75	2 75	2 60	2 45	2·45	2·45
14	2 85	3 05	3 15	3 00	J2·90 <sub>s</sub>	J2 90 <sub>s</sub>	3·05	2 80	2 75	2 40	2·30	2·40
15	3·15	3·20	U3 20 <sub>s</sub>	U3·45 <sub>s</sub>	3 25	2 65	U2·60 <sub>s</sub>	2 80	2·75	C	C	2·30
16	F	F	F <sub>s</sub>	3 20	J3 00 <sub>F</sub>	E	2 60	2·80	2 60	2 65	2 40	2 30
17	F	F	F	U3 25 <sub>F</sub>	3·30	3·30	2 90	3·00	U2·70 <sub>s</sub>	C	C	C
18	3 05	3·20	3·20	3·20	3 40	3 30	U2·90 <sub>C</sub>	2·90	2·65	2·50	2·40	2 40
19	3 20	3·10	3·15	3 20	3·30	3 35	U2 80 <sub>R</sub>	3·15	2 90	2·45	2 40	2·40
20	3·00	3 20	3·20	3·10	U3 50 <sub>s</sub>	3·40	2·95	3·15	2·80	2 45	2 50	2·40
21	2 90	3 10	3 00	3 45	3 25	3 15	3 35	3 50	3·25	2 95	C	2·30
22	U3 00 <sub>s</sub>	J3 20 <sub>s</sub>	3·05	3 10	3·20	3·35	2·95	3·30	3·00	2·70	2·50	2·30
23	2 95	2 85	2 80	U3·05 <sub>s</sub>	3 20	3 20	3 20	3·20	3·00	2·65	2·30	C
24	2·90	2·95	3 00	2·90	3 05	3·15	3·20	3·10	3·15	2·95	2 70	2·45
25	2·85	F	F	2 75	3 10	3·25	3 30	3 15	2 90	2·45	2·20	2·25
26	U2·80 <sub>F</sub>	F	U3 10 <sub>F</sub>	F	2·95	3·30	3·10	2 90	2 65	2·45	2 35	2·25
27	F	F	F	U3·00 <sub>s</sub>	3 15	3·15	2·65	2·90	2 70	2 40	2 35	2 25
28	F	F	F	F	F	3 20	U2 75 <sub>R</sub>	U2 75 <sub>s</sub>	U2 60 <sub>s</sub>	2 55	2·45	2 30
29	F	F	F	F	U3 15 <sub>s</sub>	3 30	3·05	U2·90 <sub>s</sub>	2·45	2·40	2·45	2·30
30	F	2 75	F	3 30	3·25	3·30	2·60	2·80	2·55	2·45	2·40	2·30
31	F	F	F	F	F	3·30	2·65	2·90	2·50	2·50	2 45	2 35
Count	20	19	18	24	27	30	30	30	31	29	28	29
Median	2·95	3·05	3·10	3·10	3·20	3 25	2·90	2·95	2·75	2·50	2·40	2·35
Mean	2·90	2·95	3·05	3 10	3·15	3·20	2 90	3 00	2 80	2·55	2·40	2·35

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

Characteristic : (M 3000) F2

TABLE 11 (Contd.)

Latitude: 10°2'N

Unit :

Ionospheric Data

Longitude: 77°5'E

Month: January 1960

75 0 E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.35	2.35	2.35	2.35	2.35	u2.25s	2.15	2.05F	F	F	F	F	1
2.30	2.30	2.30	2.40	2.35	2.30	2.15	u2.05s	2.05F	F	F	F	2
2.30	2.30	2.30	2.30	2.20	2.00	2.10	u2.05F	F	F	F	F	3
2.25	2.20	2.20	2.25	2.35	2.35	u2.25s	2.15	2.35	2.70	2.85	2.90	4
2.20	2.10	u2.10s	2.25	2.20	2.30	u2.30s	u2.30F	F	2.80	2.90	3.10	5
2.20	2.15	2.20	2.20	2.25	2.25	2.25	2.25	2.25	2.30	2.55	2.75	6
2.25	2.30	2.25	2.20	2.10	2.25	2.30	2.10F	2.10F	2.25F	2.55	2.65	7
2.20	2.00	2.15	2.15	2.15	2.20	2.30	2.10F	F	F	F	F	8
2.10	2.15	2.15	2.15	2.25	2.20	2.20	u1.90F	F	F	F	F	9
2.45	2.25	2.35	2.40	2.35	2.30	2.05	2.00H	u2.00FH	S	2.40	u2.35F	10
2.40	2.35	2.25	2.20	2.30	2.20	2.10	2.05	u2.10F	F	F	F	11
2.30	2.40	2.40	C	2.45	2.30	u2.20s	2.15	2.10	2.10	2.35	u2.50F	12
2.50	2.50	2.50	2.50	2.40	2.25	u2.05sH	2.20	F	2.50	2.65	2.75	13
2.45	2.60	2.50	2.45	2.35	2.20	2.10	2.20	2.40	2.60	2.80	2.95	14
2.20	2.15	2.30	2.30	2.30	2.30	2.15	u2.20s	F	F	F	F	15
2.30	2.35	2.40	2.50	2.50	2.50	2.35	u2.20F	F	F	F	F	16
C	C	C	C	C	2.35	u2.30s	2.25	2.30	u2.50s	2.60	2.80	17
2.30	2.20	2.20	2.40	2.55	2.65	2.60	2.50	u2.40R	u2.80s	3.10	3.20	18
2.35	2.30	2.35	2.40	2.50	u2.40s	2.20	2.05	u2.10F	F	F	3.00	19
2.40	2.25	2.25	2.30	2.30	2.35	2.35	2.35	u2.45s	u2.70s	F	u2.85s	20
2.15	2.20	2.25	2.35	2.35	u2.35s	u2.10s	2.40	2.70	u2.80s	u2.75s	2.90	21
2.25	C	2.30	2.30	2.25	u2.05s	S	u2.10F	F	u2.70F	2.80	2.85	22
2.25	C	2.10	u2.00w	2.10	2.20	C	u2.10w	u2.20wF	C	C	2.70	23
2.30	2.00	2.05	2.15	2.20	2.25	2.20	F	F	F	F	F	24
2.20	2.10	2.10	2.15	2.15	u2.20s	u2.20s	2.05	u2.00F	F	F	F	25
2.20	2.20	2.20	C	u2.25s	u2.20s	u2.05s	u1.95F	F	F	F	F	26
2.20	2.15	2.10	2.10	2.15	u2.10s	u2.05s	1.90w	F	F	F	F	27
2.30	2.35	2.40	2.45	2.50	2.50	2.15H	F	F	F	F	F	28
2.20	2.20	2.30	2.40	2.40	2.40	2.20H	2.10FS	F	F	F	F	29
2.25	2.20	2.30	C	C	C	2.30	u2.15s	F	F	F	F	30
2.35	2.35	2.35	2.35	2.30	2.20	u2.05s	u1.90w	F	F	F	F	31
30	28	30	27	29	30	29	29	15	12	12	15	Count
2.30	2.20	2.30	2.30	2.30	2.25	2.20	2.10	2.20	2.65	2.70	2.85	Median
2.30	2.25	2.25	2.30	2.30	2.30	2.20	2.15	2.25	2.55	2.70	2.80	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic: (M3000)F2

Unit :

Month : January 1960

TABLE 11 (Contd.)

Ionospheric Data

75 0 E Mean Time

Latitude: 10°2'N

Longitude: 77 5'E

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

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

Characteristic : (M3000) F2  
 Unit :  
 Month: January 1960

TABLE 11 (Contd.)  
 Ionospheric Data  
 75°0 E Mean Time

Latitude: 10°2'N  
 Longitude: 77°5'N

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.35	2.35	2.35	2.30	2.35	u2.25s	2.10	F	F	F	F	F	1
2.30	2.30	2.35	2.35	2.30	2.20	u2.15s	2.05F	F	F	F	u2.60F	2
2.30	2.30	2.30	2.20	u2.15s	2.15	2.10	F	F	F	F	u2.80F	3
2.30	2.25	2.25	2.30	2.40	2.30	2.20	2.25	2.50	2.85	2.80	2.95	4
2.15	2.05	2.20	2.25	2.25	u2.30s	u2.30F	u2.30F	2.70	2.90	3.05	3.05	5
2.20	2.10	2.15	2.20	2.30	2.25	2.20	2.20	2.20	u2.45s	2.65	2.85	6
2.25	2.20	2.20	2.10	2.10	2.30	2.20	2.10F	u2.10F	u2.35F	u2.40F	2.70	7
2.10	2.10	2.20	2.20	2.10	2.30	2.20	u2.10F	F	F	F	F	8
2.00	2.15	2.15	2.25	2.25	2.15	2.15	u2.05F	F	F	F	Fs	9
2.40	2.25	2.35	2.40	2.35	2.15	2.00H	u2.00FH	2.05H	S	u2.40F	u2.30s	10
2.40	2.30	2.20	2.20	2.30	2.15	2.05	F	F	F	F	F	11
2.35	2.40	C	2.45	2.40	2.25	u2.15s	2.10	2.05	F	2.40	F	12
2.50	2.50	2.50	2.50	2.30	2.10H	S	u2.05s	F	2.65	2.55	2.90	13
2.50	2.50	2.50	2.45	2.30	2.10	S	2.35	2.50	2.65	2.80	3.05	14
C	2.20	2.35	2.30	2.25	u2.20s	2.10	Fs	F	F	F	F	15
2.30	2.40	2.50	2.50	2.55	2.45	2.25	F	F	F	F	F	16
C	C	C	C	C	u2.30s	u2.30s	2.20	2.30	u2.50s	2.70	2.90	17
2.25	2.20	2.30	2.60	2.65	2.65	2.50	u2.55s	u2.70R	u3.00s	3.15	u3.15Fs	18
2.30	2.30	2.40	2.45	u2.50s	u2.40s	2.10	u2.00F	F	F	u2.80Fs	u3.00s	19
2.30	2.20	2.30	2.30	2.35	2.35	2.35	u2.40F	u2.70s	u2.70s	F	2.90	20
C	2.30	2.35	2.40	2.30	u2.20s	u2.25s	2.50	2.70	u2.90s	2.85	u3.00s	21
C	2.30	2.30	2.25	C	u2.05s	2.15	F	F	2.75	2.90	2.90	22
2.30	2.20	C	C	C	u2.20s	C	C	u2.40F	u2.60F	C	2.85	23
2.15	u1.95w	2.15	2.15	2.20	2.20	u2.15F	F	F	F	F	F	24
2.15	2.15	2.10	2.15	2.15	2.15	2.20	2.05	F	F	F	F	25
2.25	2.20	C	2.20	2.25	u2.10s	u2.00s	F	F	F	F	F	26
2.20	2.10	2.15	2.10	2.15	u2.10s	1.95	F	F	F	F	F	27
2.25	2.40	2.45	2.45	2.45	2.30	2.00H	F	F	F	F	F	28
2.20	2.25	2.35	2.40	2.40	2.30	2.10H	F	F	F	F	F	29
2.20	2.25	2.35	C	C	2.35	2.20	2.05	F	F	F	F	30
2.30	2.35	2.35	2.35	2.30	2.10	1.95	u1.95s	F	F	F	F	31
27	30	27	28	27	31	28	19	12	12	13	16	Count
2.30	2.25	2.30	2.30	2.30	2.20	2.15	2.10	2.45	2.70	2.80	2.90	Median
2.25	2.25	2.30	2.30	2.30	2.25	2.15	2.15	2.40	2.70	2.75	2.85	Mean

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



Characteristic : foF<sub>2</sub>  
 Unit : Mc  
 Month: February 1960

TABLE 12  
 Ionospheric Data  
 75 0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	F	F	F	6.6	4.2	4.3	8.4	10.2	10.2	10.0	10.0
2	10.5	10.6	10.2	9.0	7.3s	4.9	4.5	9.0	11.6	12.4	11.6	11.2
3	11.6	11.0	11.1	10.6	9.6	8.0	7.4	10.1	11.8	11.7	11.5	11.6
4	10.5	10.5	9.8	F	7.7	5.1	4.8	9.4	12.2	12.8	12.4 <sup>H</sup>	11.0
5	U9.4 <sup>F</sup>	U9.6 <sup>F</sup>	8.5	F	8.5	9.4	9.1	11.2	13.0	13.7	13.6	12.2
6	U9.8s	9.8	10.5	11.2	9.9	6.9	6.6	U10.0s	11.6	12.8	13.3	13.4
7	8.3	C	C	C	C	C	C	C	C	12.7	11.7	C
8	F	F	F	U7.3s	6.7 <sup>F</sup>	6.0	5.5	9.5	12.0	13.3	13.8	13.8
9	U10.0 <sup>F</sup>	U11.0 <sup>F</sup>	U10.8 <sup>F</sup>	9.9	7.8	4.5	4.4	8.6	11.6	13.0	13.1	12.5
10	U11.0 <sup>F</sup>	U10.4 <sup>F</sup>	F	F	F	U4.6 <sup>F</sup>	F	8.3 <sup>F</sup>	10.3	11.0	11.0	11.4
11	F	U9.7 <sup>F</sup>	F	8.3	7.5	F	U5.2s	8.7	11.3	11.8	11.9	11.9
12	U9.8s	F	11.7	U9.8s	Fs	8.3	F	U9.1s	11.9	13.1	12.7	12.3
13	F	Fs	Fs	U7.2s	U6.0s	3.8	4.3	C	11.3	12.3	11.9	11.5
14	11.5	11.3	9.2	U5.8s	U4.2s	F	U5.4 <sup>F</sup>	7.7	10.3	11.5	11.3	10.8
15	10.8	U9.9s	U7.7s	U7.3s	7.3	6.8	7.2	10.6	12.5	13.5	13.3	11.9
16	F	11.6	10.3	8.6	5.6	3.7	4.0	U8.1s	10.8	11.0	C	C
17	10.0	F	U7.6 <sup>Fs</sup>	U6.8s	5.6	3.2	4.2	8.6	11.0	12.5	12.1	10.6
18	10.8	11.4	12.0	10.9	9.0	8.4	6.5	9.5	11.6	12.2	13.6	14.2
19	U12.6s	11.5	11.4	11.3	9.6	5.7 <sup>H</sup>	4.9	8.8	10.8	10.8	10.7	10.5
20	8.6	9.0	8.8	U7.6s	6.6	U7.3s	7.2	9.3	12.1	13.2	13.5	C
21	11.5	11.0	10.5	9.4	6.8	5.4	5.1s	8.9	10.8	11.7	12.3	12.4
22	U12.0s	12.4	9.9	8.7	8.6	U7.2s	5.8	9.4	U12.0s	13.3	13.0	11.6
23	11.2	10.8	9.6	9.1	U9.9s	8.4	5.8	9.0	11.3	12.0	10.8	10.4
24	12.2	13.0	U12.0s	8.4	7.6	5.2	4.5	8.4	10.5	10.8	10.4	9.8
25	F	U10.4s	9.0	F	5.0	2.5	4.0	8.7	11.0	11.8	9.8	9.4
26	F	F	F	5.6	5.0 <sup>F</sup>	3.5	4.3	8.7	10.9	11.1	10.2	9.8
27	11.6s	9.0s	F	F	F	3.2	4.6	8.4	10.7s	10.9	10.8	10.2
28	U10.2s	U9.2s	8.2	U7.2s	6.2s	6.0	5.8	9.7s	11.6	12.3	10.9	10.0
29	10.6	F	F	5.8s	F	F	4.2 <sup>Fs</sup>	8.6	10.9	12.3	12.1 <sup>RH</sup>	9.6

Count	22	21	20	22	24	25	26	27	28	29	28	26
Median	10.7	10.6	10.0	8.5	7.3	5.4	5.0	8.9	11.3	12.3	11.9	11.3
Mean	10.7	10.6	9.9	8.4	7.3	5.7	5.4	9.1	11.3	12.1	11.9	11.3

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : foF2  
Unit : Mc  
Month: February 1960

TABLE 12 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

Latitude : 102.°N  
Longitude : 77.5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	10.2	10.6	11.0	11.4	12.2	12.4	11.4	11.4	11.6	11.4	u10.2s	1
11.0	11.3	11.8	12.2	12.2	12.2	11.4	10.7	Fs	F	12.2	u12.1s	2
11.8	12.2	12.6	12.8	13.4	13.2	12.6	10.8	F	F	F	F	3
11.2	10.9	11.1	11.5	11.6	11.5	11.0	8.8	u8.6F	Fs	F	F	4
C	11.8	11.6	11.6	11.6	11.4	10.6	10.2	9.4	9.3	9.5	10.3	5
13.7	13.2	12.9	13.1	12.6	11.8	10.4	8.7	8.8F	u9.8F	F	u8.2F	6
C	C	C	10.7	10.5	10.5	10.2	8.4F	F	F	F	F	7
C	12.6	12.6	12.6	C	11.6	10.2	9.0	F	F	F	u10.6i	8
11.6	11.3	11.0	10.8	11.0	10.8	10.6	9.2	F	F	F	F	9
12.0	12.6	13.2	13.4	13.5	13.1	u12.0s	u10.8F	F	F	F	u9.4F	10
11.9	12.5	12.4	12.2	11.8	11.3	10.6	9.4	F	u8.5F	F	F	11
12.4	12.7	13.2	13.6	13.7	13.1	u11.9s	C	C	C	C	F	12
11.3	11.6	11.7	12.2	12.5	11.9	11.4	u9.6F	F	F	F	F	13
11.0	11.3	11.3	11.6	11.0	10.3	u10.1s	u9.4s	u9.3s	9.7	u9.7F	10.7	14
11.7	11.8	12.3	12.6	12.7	12.5	u11.7s	9.5F	F	F	F	F	15
10.8	11.6	12.0	12.4	12.6	12.4	11.8	u9.8s	F	F	F	F	16
10.2	9.8	10.4	11.2	11.0	10.8	10.4	u9.6s	u8.2F	u8.6F	u10.4s	10.6	17
13.8	15.0	J15.6s	15.0	14.8	u14.6s	u14.4R	13.0	u11.7s	u11.6s	u11.8s	12.7	18
10.4	10.4	10.6	10.6	10.8	10.6	10.0	9.2	u8.8R	u9.0s	F	F	19
13.0	12.2	11.7	11.6	u11.8s	12.2	u11.6s	10.4	u10.0s	11.2	u11.6s	11.4	20
11.7	11.7	12.6	12.6	12.4	u11.2R	11.0	10.3	u9.4s	u9.5s	10.0	u11.0Fs	21
10.8	10.5	10.7	10.9	11.0	u11.0s	u9.7s	u9.6s	F	F	u9.6s	10.6	22
10.9	11.4	11.5	12.0	13.0	13.0	u12.2s	10.8	u9.4s	F	10.2	11.6	23
C	9.8	9.8	9.8	9.8	9.8	9.3	8.6	u8.0F	C	C	C	24
9.3	9.4	9.8	10.4	u10.2s	u10.2s	9.4s	7.8	F	F	F	F	25
9.8	10.7	11.4	11.6	u12.1R	u12.0R	11.6	9.8s	F	F	F	12.4s	26
10.3	10.5	10.2	10.1	10.5s	10.6	10.5s	9.6s	10.6	S	12.3	10.8	27
9.5	9.3	9.7	10.6	11.2	11.4	11.0s	9.4	F	F	F	F	28
9.6	10.1	10.5	11.4	12.3	12.0	11.6	9.8	F	F	F	F	29
24	28	28	29	28	29	29	28	13	10	11	15	Count
11.1	11.4	11.6	11.6	11.8	11.6	11.0	9.6	u9.4	u9.6	10.4	10.7	Median
11.2	11.4	11.6	11.8	11.9	11.7	11.1	9.8	u9.5	u9.9	10.8	10.8	Mean

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

Characteristic : foF2  
 Unit : Mc  
 Month : February 1960

TABLE 12 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude 10·2°N  
 Longitude 77·5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	F	9.4	8.0	5.2	3.2	6.6	9.6	10.2	10.0	10.1	10.0
2	10.7	10.5	9.6	8.3	16.3R	3.6	7.0	10.6	12.2	12.4	11.4	11.0
3	11.0	11.2	11.0	10.0	9.0	7.7	8.6	11.0	12.0	11.5	11.6	11.7
4	10.5	F	F	8.5F	6.8	4.0	U7.3s	11.0	12.6	13.2	10.8	11.4
5	9.6	U9.2F	F	F	9.3	9.3	9.8	12.5	13.6	13.6	12.6	C
6	U9.8s	9.9	11.0	10.8	8.0	6.4	8.3	11.0	12.4	13.3	13.6	13.6
7	C	C	C	C	C	C	C	C	C	12.2	C	C
8	F	U7.8F	6.9	U7.0F	U6.6F	5.5	7.5	11.0	12.7	13.4	13.9	13.5
9	U11.6F	11.2F	10.4	8.7	6.2	3.5	6.8	10.4	12.5	13.3	13.0	12.1
10	F	U10.7F	F	F	U5.6F	F	U6.8F	9.4	10.7	11.0	11.3	11.7
11	F	U9.6F	U8.7F	8.0	6.7	4.8	7.0	10.3	11.7	11.8	12.0	12.0
12	F	U11.9s	10.9	9.1	U8.6F	F	F	10.6	13.0	12.8	12.6	12.3
13	F	Fs	U7.6s	U6.5Fs	U4.7F	3.1	6.4	C	11.8	12.4	11.7	11.3
14	11.4	U10.2s	7.3	U4.6s	U4.4s	U4.3F	6.5	9.5	11.0	11.6	10.6	10.8
15	U10.4s	8.7	U7.5s	U7.1s	7.2	6.8	8.8	11.5	12.7	13.2	12.7	11.7
16	F	F	9.8	U7.2s	4.4	2.9	6.2	10.0	11.0	11.1	C	10.8
17	F	Fs	U7.5s	Fs	4.1	2.9	6.6	10.0	12.0	12.6	11.3	10.4
18	11.0	U11.6s	11.8	9.6	8.9	7.6	U7.6s	10.8	12.0	12.8	14.0	14.0
19	12.2	11.6	11.6	10.5	7.2	4.4	7.0	10.0	10.9	11.0	10.8	10.5
20	8.8	U9.2s	8.4	7.0	7.0	7.2	8.1	11.0	12.7	13.2	13.7	13.6
21	11.1	10.8	10.5	8.2	6.4	4.7	17.3s	10.2	11.6	11.9	12.4	12.0
22	12.5	11.5	U9.2s	8.6	8.4	5.9	7.8	10.6	12.7	13.3	12.1	11.1
23	11.1	10.6	9.1	9.4	9.6	6.7	7.5	10.4	11.8	11.7	10.6	10.6
24	12.4	13.1	10.0	8.0	6.6	4.3	6.8	9.8	10.7	10.5	10.0	9.5
25	F	U9.4s	U7.8s	F	3.5	U2.0R	6.7	U10.2s	11.8	11.1H	9.5	9.3
26	F	F	6.4s	5.0	F	2.8	6.6	U10.2s	11.3	10.3	9.9	9.8
27	F	F	F	4.3	3.6	2.9F	U6.8s	9.8s	10.9	10.8	10.5	10.1
28	U9.8s	8.8	7.8	6.6	6.0s	5.5	7.6	10.8	12.0	12.0	10.6	9.8
29	10.2s	F	6.8	5.3	F	F	6.8	10.1s	11.6	12.6	U11.1RH	9.5
Count	17	20	24	24	26	25	27	27	28	29	27	27
Median	11.0	10.6	9.2	8.0	6.6	4.4	7.0	10.4	11.9	12.2	11.4	11.1
Mean	10.8	10.4	9.0	7.8	6.6	4.9	7.3	10.4	11.9	12.1	11.6	11.3

Sweep 1.0 Mc, to 25.0 Mc in 27 seconds.

Characteristic : foF2  
 Unit : Mc  
 Month : February, 1960

TABLE 12 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
10·2	10·5	10·8	11·2	11·6	12·4	U12·0s	11·3	11·6	U11·4s	10·8	10·2	1
11·1	11·5	12·0	12·2	12·2	U11·6s	U11·0R	U9·6s	F	11·0	12·2	U12·0s	2
12·1	12·2	12·7	13·3	13·4	13·0	11·4	U10·4F	F	F	F	10·4	3
11·0	10·9	11·2	11·6	11·5	11·4	U9·7s	U8·6F	C	Fs	U10·0F	9·6	4
11·6	11·6	11·7	11·6	11·6	10·8	10·5	10·0	9·1	9·2	10·0	10·5	5
13·4	12·9	13·1	12·7	11·8	11·0	9·2	U8·6F	U9·2r	9·6F	8·5	U7·8F	6
C	C	10·8	10·6	10·5	10·5	9·6	F	F	F	F	U7·8F	7
12·7	12·6	12·6	C	C	11·2	9·6	8·8	F	F	U10·4r	F	8
11·6	11·2	10·8	10·9	11·0	10·8	10·2	F	F	F	F	F	9
12·3	13·0	13·1	13·7	13·0	U12·4R	U11·5s	F	F	F	F	F	10
12·1	12·7	12·2	12·3	11·5	10·8	U9·9R	U8·6F	F	F	F	10·3	11
12·4	12·8	13·3	13·7	13·2	12·7s	11·0	C	C	C	C	F	12
11·4	11·7	11·8	12·6	12·4	11·6	10·7	U8·8F	F	F	F	Fs	13
10·9	11·5	11·5	11·2	10·6	10·1	U9·7s	9·1	9·4F	9·5	Fs	10·7	14
11·8	12·3	12·4	12·7	12·6	J12·2s	10·7s	F	F	F	F	F	15
11·2	11·6	12·2	12·6	12·5	U11·8s	10·8	F	F	F	F	10·9	16
9·8	9·8	10·8	11·2	11·0	U10·6s	U10·2s	U8·6F	F	U9·4s	10·4	10·8	17
14·6	U15·4s	U15·4s	15·0	14·6	14·6	U13·8R	12·0	12·0	U11·8s	J12·4R	12·6	18
10·3	10·4	10·6	10·6	10·8	10·2	9·4	9·3	9·0	8·5	F	8·6	19
12·5	11·8	11·6	11·6	12·2	U12·0s	11·0	10·4	U10·3rs	U11·4s	U11·6s	11·0	20
11·7	J12·0s	12·7	12·7	J12·0R	11·0	10·8	U9·4s	U9·3F	10·0	10·8	U11·2s	21
10·5	10·7	10·9	10·8	10·9	U10·8s	U9·6s	9·5	U9·0r	U9·3Fs	9·9	11·4	22
11·4	11·4	11·7	12·5	13·1	12·6	11·5	U9·6s	U9·4F	U9·7F	10·8	12·2	23
9·6	9·8	9·9	9·8	9·7	9·4	9·0	U8·0r	I'	F	F	F	24
9·2	9·6	10·0	10·4	U10·3s	9·7s	8·9	F	I'	F	F	F	25
10·2	11·1	11·5	12·0	U12·2R	12·0s	11·2R	F	F	F	F	F	26
10·3	10·1	10·1	10·2	10·6	10·6	10·0	9·8	11·4	12·4	11·5s	U10·2s	27
9·4	9·4	10·0	10·9	11·3	11·3	10·5	F	F	F	F	F	28
9·8	10·2	10·8	11·7	11·9	11·7	10·8	U9·2w	U9·0F	U8·8F	F	F	29
28	28	29	28	28	29	29	20	12	14	13	18	Count
11·3	11·5	11·6	11·6	11·7	11·3	10·5	9·4	9·4	9·6	10·8	10·6	Median
11·2	11·5	11·7	11·9	11·8	11·4	10·5	9·5	9·9	10·1	10·7	10·5	Mean

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

Characteristic : foF1  
 Unit : Mc  
 Month : February, 1960

TABLE 13  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10 2°N  
 Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16									L	L	C	C
17								L	L	L	L	L
18									L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	C
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	5.2L	L
27								L	L	L	5.0L	5.0
28								L	L	L	L	L
29								L	L	L	L	L
Count								..	.	.	2	1
Median												
Mean												

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

Characteristic : foF1  
 Unit : Mc  
 Month : February, 1960

TABLE 13 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10 2°N  
 Longitude : 77.5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	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	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	LH	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
C	L	L	L	L	L							24
L	L	L	L	L	L							25
LH	L	L	LH	L	L							26
L	L	L	L	L	L							27
L	L	LH	L	L	L							28
L	L	LH	L	L	L							29
												Count
												Median
												Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : foF1  
 Unit : Mc  
 Month : Februray, 1960

TABLE 13 (Contd.)  
 Inospheric Data  
 75 0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4							L	L	L	L	L	L
5								L	L	L	L	C
6								L	L	L	L	L
7							C	L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
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	C	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20							L	L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	U5.0L	L	5.2L
26								L	L	L	L	L
27								L	L	L	L	LH
28								L	L	L	L	5.2
29								L	L	L	4.9	L
Count							.	..	.	1	1	2
Median								.	..	.	..	.
Mean							..	.		.	.	.

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic : foF1  
 Unit : Mc  
 Month : February, 1960

TABLE 13 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L <sub>II</sub>	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 <sub>II</sub>	L	L	L								28
L	L	L <sub>II</sub>	L	L								29
..	..	..	.	.	..							Count
		..	.	..	..							Median
..	..		..		.							Mean

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



Characteristic : foE  
Unit : Mc  
Month : February, 1960

TABLE 14  
Ionospheric Data  
75.0°E Mean Time

Latitude : 10.2°N  
Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2								2.6	A	A	A	A
3								2.5	A	A	A	A
4								2.6	A	A	A	A
5								2.5H	A	A	A	A
6								2.5H	A	A	A	A
7								C	C	A	A	C
8								2.4	A	A	A	A
9								2.5	A	A	A	A
10								A	A	A	A	A
11								2.4	A	A	A	A
12								2.5H	A	A	A	A
13								C	A	A	A	A
14								A	A	A	A	A
15								2.3H	A	A	A	A
16								A	A	A	C	C
17								2.4	A	A	A	A
18								2.5H	3.0	A	A	A
19								A	A	A	A	A
20								2.4H	U3.2R	A	A	C
21								A	A	A	A	A
22								2.5	A	A	A	A
23								R	A	A	A	B
24								A	A	A	A	A
25								2.5H	A	A	A	A
26								2.4	A	A	A	A
27								A	A	A	A	A
28								R	A	A	A	A
29								2.5H	3.1	A	A	A
Count								17	3	..	.	.
Median								2.5		..	.	.
Mean								2.5	.	..	.	.

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : foE  
 Unit : Mc  
 Month : February, 1960

TABLE 14 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

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

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

Characteristic : foE  
 Unit : Mc  
 Month : February, 1960

TABLE 14 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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

Characteristic : foE  
 Unit : Mc  
 Month : February, 1960

TABLE 14 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A	A							1
A	A	A	A	A	A							2
A	B	A	3.6	A	F							3
A	A	A	A	A	2.2							4
A	A	A	A	A	A							5
A	A	A	A	A	A							6
C	C	A	A	A	A							7
A	A	A	C	C								8
A	A	A	A	A	A							9
A	A	A	A	A	A							10
A	A	A	A	A	A							11
A	A	A	A	A	A							12
A	A	A	A	A	A							13
A	A	A	A	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	A	U2 8A	A							20
A	A	A	A	A	A							21
A	A	A	A	A	A							22
A	A	A	A	A	F							23
A	A	A	A	F	F							24
A	A	A	A	2.7								25
A	A	A	U3.2A	2 9R	F							26
A	A	A	A	A	2.2R							27
A	A	A	A	A	F							28
A	A	A	A	A	A							29
..	..	..	2	3	2							Count
.	..	.	..	..	.							Median
.	..	.	..	..	..							Mean

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

Characteristic : foEs  
 Unit : Mc  
 Month : February, 1960

TABLE 15  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2 N  
 Longitude : 77.5 E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								6.8	10.6	10.8	11.4	11.6
2								G	9.2	11.4	11.6	12.0
3			4.5					S	10.4	11.2	12.0	10.6
4	4.1		3.0					G	9.2	10.4	12.0	11.6
5					1.9			G	8.4	11.6	12.6	12.6
6								4.4	9.6	10.9	12.4	12.2
7		C	C	C	C	C	C	C	C	12.0	13.4	C
8				3.6				G	11.0	11.0	12.8	13.0
9								U5.6s	10.6	12.0	13.0	13.0
10								9.8	10.8	13.0	12.0	10.8
11								U6.6s	10.9	11.2	12.0	12.2
12								3.1	9.8	10.2	10.9	10.4
13								C	11.5	12.0	12.8	12.7
14								7.4	9.8	12.1	12.6	13.5
15				2.0				G	U8.1s	11.7	12.6	12.9
16			2.8					8.4	11.0	12.4	C	C
17								G	9.0	11.0	12.0	13.4
18								G	G	9.0	12.0	12.4
19		4.0	4.4					U5.0s	10.6	11.4	12.0	12.4
20								G	G	12.0	12.0	C
21								U7.0s	U9.6s	9.4	11.8	12.4
22						4.1		G	U8.0s	U11.0s	12.8	12.6
23				U3.8s				G	U9.1s	11.4	12.6	12.6
24								U8.0s	11.0	11.8	12.8	12.6
25								G	9.0	11.4	12.8	12.0
26								G	11.2	12.0	13.8	13.4
27								S	11.0s	12.0	13.0	13.0
28		4.0s						G	9.0	11.6	12.6	12.6
29								G	G	9.2	12.8	13.0

Count	2	1	4	3	2	.	.	25	28	29	28	26
Median	.	.		.	..			G	9.7	11.4	12.6	12.6
Mean	.	.	..		.	.		6.6	9.9	11.3	12.4	12.4

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

Characteristic : foEs  
 Unit : Mc  
 Month : February, 1960

TABLE 15 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	12.5	12.2	11.0	7.7	6.8	4.6						1
12.5	12.4	11.8	10.8	10.2	7.2			2.4	4.8	3.2	6.8	2
11.2	12.6	11.8	10.4	8.8	8.0				6.6			3
11.8	11.8	11.0	10.8	9.8	7.6							4
C	12.0	11.7	11.6	9.5	7.0							5
12.8	12.4	11.4	12.0	11.6	8.4							6
C	C	C	12.0	10.8	8.8							7
C	13.0	13.4	12.0	C	9.0							8
13.0	13.4	12.2	11.8	11.0	10.4							9
12.4	12.4	13.4	11.4	12.0	8.0							10
11.7	10.8	10.1	9.8	9.2	8.5							11
11.3	11.8	10.3	12.3	10.1	8.0		C	C	C	C		12
12.2	11.9	11.3	11.0	10.4	8.7							13
13.8	12.8	12.6	11.8	11.1s	10.8.1s							14
12.4	12.1	11.8	9.8	10.4	S							15
12.0	12.0	12.0	9.4	10.0	8.0							16
12.0	12.2	12.4	11.0	10.0	8.0							17
8.0	10.4	11.4	10.8	9.0	8.0							18
12.0	13.4	12.0	12.0	9.0	8.4							19
12.2	11.2	11.0	10.0	8.8	7.4							20
12.2	10.8	11.6	11.2	11.0	10.7.6s							21
11.4	12.2	12.6	12.0	9.0	10.7.0s							22
12.2	11.4	11.4s	10.8	10.8	8.6					4.8	3.8	23
C	12.6	12.2	11.4	10.0	7.6	10.4.6s			C	C	C	24
12.8	12.8	12.8	11.2	10.0s	8.0							25
12.0	12.0	11.1	9.0	7.0	G							26
12.0	12.6	12.0	11.0	11.0	7.0					.8	5.0s	27
12.6	13.0	12.8	11.0	9.2s	6.0s							28
13.0	12.6	12.8	11.0	8.4	9.8							29
24	28	28	29	28	28	2	.	1	2	3	3	Count
12.2	12.3	11.9	11.0	10.0	8.0	..	.	..	.	..	..	Median
12.1	12.2	11.9	11.0	9.8	8.0	..	..	..	..	..	..	Mean

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

Characteristic : foEs  
 Unit : Mc  
 Month : February, 1960

TABLE 15 (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								8.8	10.2	11.6	11.8	11.6
2								9.0	10.6	12.4	11.8	11.7
3		4.2	5.0				G	u7.4s	10.6	12.0	11.2	11.6
4							G	6.8	10.4	11.6	11.8	11.8
5			2.7					6.8	11.2	11.8	12.6	C
6							2.4	8.8	10.2	12.2	12.6	12.4
7	C	C	C	C	C	C	C	C	C	12.0	C	C
8								G	9.4	12.8	12.8	13.8
9								8.2	11.0	12.0	12.4	13.0
10							G	10.4	12.0	12.6	12.6	10.9
11								u9.5s	11.8	11.9	11.9	11.6
12							G	8.6	9.1	10.7	10.8	10.5
13							4.4	C	10.4	13.1	13.1	12.6
14							G	8.9	10.9	13.0	12.7	13.4
15								G	u10.7s	12.8	12.4	12.4
16		u7.0s					G	8.8	11.0	13.0	C	14.4
17			4.0					6.0	11.0	12.4	13.0	12.0
18								G	G	10.0	G	12.2
19	3.6	4.2					G	9.0	11.4	11.8	12.0	12.0
20							G	G	G	9.6	11.6	12.0
21							G	8.4	10.2	11.4	12.0	12.6
22								G	u9.2s	12.4	13.2	12.2
23			2.6				G	5.6	11.6	12.8	12.4	12.6
24							5.6	u9.6s	11.6	13.0	12.7	12.0
25							G	7.0	10.8	12.0	12.2	12.4
26							G	8.0s	12.0	12.4	13.0	13.0
27							G	10.0s	11.0	12.6	12.8	13.2
28		2.2	2.2				G	G	10.0	12.0	12.4	12.4
29							G	G	9.0	12.0	12.4	12.8

Count	1	4	5	.	.	..	18	27	28	29	27	27
Median		.	2.7	.	.	.	G	8.0	10.6	12.0	12.4	12.4
Mean	..	.	2.3	..	.	..	..	8.3	10.7	12.1	12.3	12.3

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

Characteristic : foEs  
 Unit : Mc  
 Month : February, 1960

TABLE 15 (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
12.7	12.6	11.4	8.8	7.0	5.6	3.6						1
12.6	11.8	10.8	9.4	8.0	6.6			4.0		3.9		2
12.2	B	10.6	G	8.4	4.0			3.6	8.0	3.2	4.0	3
11.8	11.2	11.2	10.6	8.5	4.4			C				4
12.6	12.0	11.8	11.0	8.4								5
11.0	12.8	12.4	11.8	9.0								6
C	C	12.2	12.0	9.2	7.4							7
14.0	13.6	12.0	C	C	7.0							8
13.0	13.4	12.0	12.0	12.0	u7.0s							9
12.6	12.0	12.6	12.0	8.8								10
11.0	10.7	10.3	9.8	8.6						5.6		11
11.0	10.8	12.7	10.2	8.1			C	C	C	C		12
12.1	12.6	11.3	10.8	9.6	3.8							13
13.4	11.4	11.6	11.8	9.8	S							14
12.3	12.4	10.8	u9.2s	9.3s	S							15
12.0	12.0	9.0	9.2	8.0	7.0							16
12.2	12.4	11.4	10.6	8.2	8.0							17
9.0	9.6	11.0	10.0	8.2	u6.0s							18
12.0	12.6	11.0	11.0	8.6	6.0							19
12.4	11.8	11.8	8.6	7.6	8.0							20
10.8	11.0	11.0	12.0	8.6								21
12.0	u12.0s	12.0	10.2	8.6	u5.0s							22
12.2	11.2	9.8	9.0	8.5	6.8				4.0	4.2		23
13.4	13.0	12.0	11.6	8.2	5.6							24
13.2	12.2	12.2	11.0	8.4	4.4							25
12.6	11.6	10.0	8.0	G	G							26
12.6	12.0	12.0	10.4	8.2	G				3.0	4.0	3.0	27
12.8	12.4	11.6	10.0	7.0s	G							28
13.0	12.0	12.0	9.3	10.4	u7.6s							29
28	27	29	28	28	21	1	..	2	3	5	2	Count
12.4	12.0	11.6	10.3	8.4	6.0		..	..	..	4.0	..	Median
12.2	12.0	11.4	10.4	8.6	6.1		..	..	..	4.2	..	Mean

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



Characteristic : fbEs  
 Unit : Mc  
 Month : February, 1960

TABLE 16  
 Ionospheric Data  
 75°0'E Mean Time

Latitude : 10.2° N  
 Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								2.6	3.2	3.8	4.0	4.4
2								G	3.2	3.7	4.0	4.3
3			2.2					2.5	3.2	3.8	4.0	4.3
4			1.6					G	3.2	3.8	4.0	4.2
5					1.5			G	3.2	3.8	4.0	4.0
6								2.5	3.2	3.8	4.0	4.1
7		C	C	C	C	C	C	C	C	3.6	3.8	C
8								G	3.2	3.7	3.9	4.0
9								2.5	3.1	3.6	4.0	4.1
10								2.5	3.2	3.7	4.0	4.0
11								2.4	3.1	3.5	3.8	4.1
12								2.4	3.1	3.5	3.7	4.0
13								C	3.1	3.6	3.8	4.0
14								2.4	3.1	3.5	3.7	4.0
15								G	3.0	3.4	3.6	3.9
16			1.4					2.5	3.2	3.6	C	C
17								G	3.0	3.6	3.8	4.1
18								G	G	3.6	3.7	4.0
19		2.0						2.5	3.1	3.5	3.8	4.0
20								G	G	3.6	3.8	C
21								2.4	3.1	3.5	3.8	4.2
22								G	3.2	3.6	3.8	4.0
23					1.5			G	3.1	3.6	3.8	
24								2.5	3.1	3.6	3.9	4.0
25								G	3.1	3.4	3.8	4.0
26								G	3.1	3.6	3.9	4.0
27								2.5	3.2	3.7	4.0	4.0
28	1.8							G	3.1	3.6	3.8	4.1
29								G	G	3.6	3.8	4.0
Count	1	1	3	1	1	.	.	27	28	29	28	25
Median	.	.	.	.	..	..		G	3.1	3.6	3.8	4.0
Mean	.	..	.	.	..	.	.	2.5	3.1	3.6	3.9	4.1

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : fbEs

Unit : Mc

Month : February, 1960

TABLE 16 (Contd)

Ionospheric Data

75°E Mean Time

Latitude : 10.2° N

Longitude : 77.5°E

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

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

Characteristic : fbEs  
 Unit : Mc  
 Month : February, 1960

TABLE 16 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

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

Count	1	3	1	.	.	.	13	26	28	29	27	26
Median	.	.	..	..	.	.	G	2.8	3.4	3.7	4.0	4.0
Mean	..	.	--	..	..	..	.	2.9	3.4	3.7	4.0	4.1

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

Characteristic : fbEs  
Unit : Mc  
Month : February 1960

TABLE 16 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.3	4.2	4.0	3.4	3.4	2.4	1.6						1
4.3	4.2	4.0	3.6	3.0	2.3			1.6		2.2		2
4.4	B	4.1	G	3.2	2.3			2.0	2.6	2.0	1.5	3
4.2	4.1	4.0	3.6	3.0	2.2			C				4
4.2	4.0	3.9	3.6	3.0								5
4.2	4.1	3.8	3.6	3.1								6
C	C	3.8	3.5	3.0	2.2							7
4.0	4.0	3.8	C	C	2.2							8
4.0	4.0	3.7	3.4	3.0	2.2							9
4.1	4.1	4.1	3.6	3.2								10
4.0	3.8	3.7	3.5	3.0								11
4.1	4.0	5.0	3.5	3.0						2.1		12
4.0	4.0	3.8	3.4	3.0		C	C	C		C		13
3.9	3.9	3.9	3.3	2.9	2.3							14
4.0	3.8	3.6	3.3	2.9	2.3							15
4.0	4.0	3.7	3.4	3.0	2.2							16
4.0	4.0	3.8	3.3	2.9								17
4.0	3.8	3.8	3.4	3.0	2.2							18
4.1	4.0	3.8	3.4	3.0	2.2							19
4.0	3.8	3.6	3.3	3.0	2.2							20
4.0	3.9	3.8	3.4	3.0								21
4.1	3.9	3.7	3.4	3.0	2.2							22
4.2	4.1	3.8	3.4	3.0					1.6	1.6		23
4.0	4.1	3.6	3.3	2.9								24
4.0	4.0	3.8	3.4	3.0	2.2							25
4.3	4.1	3.8	3.5	G	G							26
4.0	4.0	3.8	3.5	3.0						1.7		27
4.2	4.0	3.8	3.4	3.0								28
4.0	4.0	3.7	3.5	3.5	2.3							29
28	27	29	28	28	19	1	.	2	2	5	1	Count
4.0	4.0	3.8	3.4	3.0	2.2	.	..	..	.	2.0	..	Median
4.1	4.0	3.9	3.4	3.0	2.2			..	..	1.9	..	Mean

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : fmin  
Unit : Mc  
Month : February 1960

TABLE 17  
Ionospheric Data  
75.0°E Mean Time

Latitude : 10.2°N  
Longitude : 77.5°E

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

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

Characteristic : fmin  
Unit : Mc  
Month : February 1960

TABLE 17 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	2.7	2.6	2.3	1.9	2.0	1.2	1.7	1.5	1.9	1.4	1.3	1
2.9	2.8	2.6	2.4	2.1	1.9	1.6	1.4	1.1	1.5	1.4	1.4	2
3.4	3.0	3.2	4.2	2.0	1.8	1.8	1.2	1.5	1.3	1.6	1.6	3
2.6	3.9	4.4	2.5	2.1	2.2	1.6	1.2	1.6	1.4	1.5	1.6	4
C	2.7	2.6	2.6	2.3	2.2	1.7	1.4	1.3	1.6	1.6	1.7	5
2.8	2.9	2.7	2.3	2.3	2.2	1.7	1.2	1.3	1.5	1.3	1.4	6
C	C	C	2.3	1.8	1.8	1.6	1.1	1.2	1.3	1.2	1.3	7
C	2.6	2.6	2.2	C	1.8	1.6	1.1	1.2	1.3	1.3	1.4	8
2.6	2.4	2.4	2.2	2.1	1.6	1.5	1.2	1.2	1.2	1.5	1.8	9
2.9	2.6	2.5	2.4	2.2	2.2	1.8	1.3	1.3	1.3	1.0	1.3	10
2.7	2.7	2.5	2.5	2.2	2.3	1.9	1.2	1.0	1.1	1.3	1.9	11
2.6	2.6	2.2	2.1	2.0	2.2	1.6	C	C	C	C	1.4	12
2.6	2.7	2.6	2.6	2.3	2.2	1.6	1.1	1.1	1.3	1.4	1.2	13
2.5	2.5	2.3	2.2	1.7	1.6	1.6	1.2	1.3	1.2	1.4	1.2	14
2.5	2.4	2.4	2.2	1.9	1.6	1.6	1.2	1.1	1.3	1.3	1.2	15
2.6	2.6	2.5	2.5	2.4	2.2	1.6	1.3	1.5	1.3	1.7	1.7	16
2.8	2.8	2.3	2.4	1.9	1.8	1.6	1.5	1.4	1.5	1.4	1.4	17
2.4	2.6	2.5	2.6	2.2	1.9	1.8	1.4	1.4	1.4	1.6	1.3	18
2.8	2.8	2.6	2.4	2.0	1.7	1.6	1.3	1.2	1.6	1.4	1.5	19
2.6	2.6	2.4	2.2	2.0	2.0	1.6	1.1	1.6	1.7	1.5	1.6	20
2.8	2.6	2.6	2.6	2.2	2.2	1.8	1.3	1.4	1.3	1.4	1.2	21
2.8	2.5	2.6	2.2	2.0	1.8	1.6	1.5	1.4	1.4	1.3	1.4	22
3.4	2.7	2.4	2.4	2.0	2.2	1.8	1.3	1.4	1.4	1.2	1.5	23
C	2.8	2.3	2.2	1.8	1.5	1.1	S	1.4	C	C	C	24
2.6	2.6	2.4	2.1	2.0	2.0	1.6	1.4	S	1.4	1.4	1.6	25
2.6	2.8	2.4	2.4	2.0	2.2	1.7	1.3	1.5	1.5	1.5	1.2	26
2.7	2.6	2.6	2.4	2.0	1.7	1.6	1.4	1.3	1.5	1.8	1.8	27
2.5	2.4	2.4	2.2	2.0	1.5	1.7	1.4	1.4	1.3	1.3	1.2	28
2.6	2.6	2.4	2.4	2.3	1.9	1.8	1.3	1.1	1.3	1.3	1.3	29
24	28	28	29	28	29	29	27	27	27	27	28	Count
2.6	2.6	2.5	2.4	2.0	1.9	1.6	1.3	1.3	1.4	1.4	1.4	Median
2.7	2.7	2.6	2.4	2.1	1.9	1.6	1.3	1.3	1.4	1.4	1.4	Mean

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

Characteristic : fmin  
Unit : Mc  
Month : February 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	1.5	1.3	1.3	1.3	1.2	1.4	2.0	1.8	2.2	2.5	2.7	2.8
2	1.3	1.4	1.3	1.3	1.4	1.6	2.1	1.8	2.2	2.5	2.6	2.8
3	1.6	1.2	1.3	1.4	1.4	1.4	1.6	1.6	2.0	2.5	2.8	3.4
4	1.6	1.5	1.7	1.5	1.6	1.4	1.8	1.7	2.2	2.3	2.6	2.8
5	1.3	1.3	1.3	1.4	1.4	1.4	2.1	1.7	2.3	2.4	2.6	C
6	1.6	1.4	1.0	1.3	1.2	1.2	1.3	1.4	2.4	2.4	2.6	2.6
7	C	C	C	C	C	C	C	C	C	2.2	C	C
8	1.2	1.1	1.1	1.3	1.1	1.3	2.0	1.8	2.1	2.4	2.6	2.8
9	1.2	1.4	1.2	1.5	1.6	1.4	2.2	1.6	2.0	2.1	2.4	2.6
10	1.2	1.4	1.3	1.2	1.3	1.3	1.7	1.9	2.3	2.7	2.4	2.9
11	1.2	1.3	1.4	1.4	1.3	1.2	2.0	1.7	2.0	2.3	2.5	2.6
12	1.6	1.6	1.9	1.6	1.3	1.4	1.6	1.6	1.9	2.1	2.4	2.7
13	1.3	1.3	1.2	1.3	1.4	1.2	2.0	C	2.1	2.5	2.5	2.7
14	1.3	1.2	1.2	1.2	E	E	1.5	1.4	1.8	2.1	2.3	2.3
15	1.2	1.3	1.2	1.2	1.2	1.3	1.9	1.8	2.2	2.4	2.3	2.5
16	1.1	1.5	1.1	1.1	1.3	1.4	1.4	1.5	2.0	2.3	C	2.5
17	1.5	1.1	1.5	1.1	1.3	E	2.0	1.7	1.8	2.2	2.6	3.0
18	1.3	1.1	1.1	E	1.3	1.6	2.2	2.2	2.5	2.3	2.6	2.8
19	1.1	1.3	1.3	1.2	1.5	1.3	1.5	1.6	2.0	2.2	2.8	2.8
20	1.7	1.7	1.5	1.5	1.2	1.5	1.7	1.2	2.3	2.3	2.4	2.6
21	1.2	1.2	1.1	1.3	1.2	1.0	1.5	1.6	2.2	2.1	2.5	2.8
22	1.5	1.3	1.2	1.2	1.1	1.3	2.0	1.7	2.1	2.2	2.6	2.8
23	1.2	1.5	1.5	1.5	1.3	1.2	1.7	1.8	2.2	2.2	2.2	4.6
24	1.2	1.1	1.2	1.1	1.2	1.2	1.6	1.7	2.0	2.3	2.5	2.6
25	1.4	1.2	1.2	1.4	1.6	1.5	1.7	1.6	1.9	2.1	2.6	2.6
26	1.1	1.1	1.0	1.2	1.2	1.4	1.6	1.6	1.9	2.2	2.4	2.6
27	1.1	1.4	1.5	1.1	1.2	1.2	1.8	1.8	2.2	2.2	2.6	2.6
28	1.5	1.5	1.2	E	1.2	1.4	1.5	1.6	1.9	2.1	2.2	2.6
29	1.2	1.1	1.2	1.2	1.2	1.2	1.9	1.8	2.2	2.2	2.6	2.6
Count	28	28	28	28	28	28	28	27	28	29	27	27
Median	1.3	1.3	1.2	1.3	1.3	1.3	1.8	1.7	2.1	2.3	2.6	2.7
Mean	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.7	2.1	2.3	2.5	2.8

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

Characteristic : fmin  
 Unit : Mc  
 Month : February 1960

TABLE 17 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.7	2.6	2.5	2.1	2.2	1.8	1.2	1.5	1.7	1.6	1.6	1.4	1
3.0	2.6	2.6	2.3	2.2	1.8	1.3	1.3	1.1	1.6	1.4	1.7	2
3.2	6.2	2.8	2.5	2.0	1.8	1.2	1.4	1.1	2.0	1.9	1.6	3
2.8	2.6	2.6	2.2	2.2	1.8	1.3	1.4	C	1.6	1.5	1.6	4
2.7	2.8	2.6	2.5	2.3	2.3	1.3	1.6	1.9	1.5	1.8	1.8	5
3.1	2.7	2.6	2.5	2.2	2.4	1.4	1.2	1.2	1.3	1.3	1.5	6
C	C	2.4	2.0	2.0	1.7	1.2	1.2	1.3	1.3	1.3	1.3	7
2.6	2.5	2.4	C	C	1.6	1.2	1.0	1.2	1.3	1.5	1.4	8
2.4	2.4	2.2	2.2	1.6	1.2	1.3	1.3	1.3	1.3	1.7	1.7	9
2.3	2.5	2.3	2.3	2.2	2.3	1.4	1.4	1.3	1.3	1.3	1.3	10
2.5	2.6	2.6	2.3	2.4	2.2	1.2	1.1	E	1.4	1.5	1.8	11
2.5	2.3	2.3	2.2	2.3	2.3	1.1	C	C	C	C	1.2	12
2.8	2.8	2.8	2.2	2.3	2.3	1.3	1.5	1.4	1.2	1.2	1.1	13
2.5	2.4	2.4	2.1	1.6	1.6	1.1	1.0	1.1	1.4	1.2	1.3	14
2.5	2.4	2.3	2.1	1.8	1.9	1.2	1.1	1.2	1.4	1.2	1.3	15
2.8	2.6	2.4	2.3	2.2	1.9	1.3	1.4	1.4	1.5	1.7	1.5	16
2.8	2.7	2.4	2.4	2.0	2.2	1.2	1.4	1.7	1.5	1.7	1.2	17
3.0	2.8	2.6	2.3	2.2	1.9	1.5	1.4	1.4	1.4	1.5	1.3	18
2.6	2.6	2.7	2.2	2.0	1.4	1.3	1.3	1.4	1.4	1.4	1.4	19
2.6	2.6	2.3	2.2	2.0	1.7	1.3	1.3	1.5	1.5	1.5	1.7	20
2.5	2.6	2.5	2.4	2.4	2.3	1.4	1.3	1.7	1.5	1.4	1.3	21
2.7	2.5	2.4	2.2	1.9	1.7	1.3	1.6	1.4	1.3	1.4	1.6	22
3.0	2.7	2.8	2.3	1.9	1.8	1.3	1.5	1.4	1.2	1.3	1.2	23
2.4	2.4	2.3	1.9	1.6	1.3	1.0	1.3	1.2	1.3	1.6	1.3	24
2.6	2.4	2.3	2.0	2.1	1.7	1.4	S	1.5	1.4	2.0	1.5	25
3.2	2.6	2.6	2.2	2.2	1.9	1.4	S	1.3	1.4	1.4	1.1	26
2.8	2.6	2.4	2.2	2.0	1.4	1.3	1.2	1.3	1.8	1.4	1.4	27
2.6	2.4	2.4	2.2	1.8	1.5	1.2	S	1.4	1.3	1.2	1.3	28
2.6	2.6	2.5	2.2	2.1	1.8	1.4	1.3	1.1	1.4	1.3	1.6	29
28	28	29	28	28	29	29	25	27	28	28	29	Count
2.6	2.6	2.4	2.2	2.1	1.8	1.3	1.3	1.3	1.4	1.4	1.4	Median
2.7	2.7	2.5	2.2	2.1	1.8	1.3	1.3	1.4	1.4	1.5	1.4	Mean

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



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

TABLE 18  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16									L	L	C	C
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
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	285L	L
27								L	L	L	280L	280
28								L	L	L	L	280
29								L	L	L	L	L
Count								..	..	.	2	2
Median								..	.	..	.	.
Mean								..	.	..	..	..

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

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

TABLE 18 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	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	L							6
C	C	C	L	L	L							7
C	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
C	L	L	L	L	L							24
L	L	L	L	L	L							25
L <sup>H</sup>	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
..	.		..		..							Count
..		..	..		.							Median
..	.	.	.	..	.							Mean

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

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

TABLE 18 (Contd.)  
 Ionospheric Data  
 75° 0'E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4							L	L	L	L	L	L
5							L	L	L	L	L	C
6								L	L	L	L	L
7							C	C	C	C	C	C
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	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	C	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20							L	L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	u310L
25								L	L	u280L	L	290
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	280
29							L	L	L	L	260	L
Count							..	.		1	1	3
Median							..	..	.	..	.	..
Mean							..	.	..	.	.	.

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

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

TABLE 18 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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

Characteristic : h'F

Unit ; Km

Month : February 1960

TABLE 19

Ionospheric Data

75 0°E Mean Time

Latitude : 10·2°N

Longitude : 77·5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	320	280	230	205	200	215	260	250	230	225	205	195
2	260	250	240	230	215	215	245	245	230	225	200	200
3	230	265	295	255	225	225	240	255	235	225	210	200
4	255	245	240	225	210	225	260	255	240	225	220	215
5	235	250	250	280	290	245	230	250	235	230	220	210
6	260	260	260	230	220	230	250	260	240	230	215	215
7	250	C	C	C	C	C	C	C	C	225	215	C
8	U260F	240	220F	235	U230F	225	240	250	230	220	215	205
9	255F	240	225	230	220	205	280	260	230	225	215	210
10	220	220	205	220	U225F	230	U270F	250	230	220	205	210H
11	255	225	220	220	215	200	230	245	230	220	215	200
12	240	235	225	235	280	240	240	245	230	220	210	200
13	225	225	220	235	220	225	270	C	240	220	205	210
14	235	230	210	230	245	U290F	320	260	250	240	240	220
15	225	220	225	245	265	265	245	255	240	220	210	200
16	240	225	220	220	210	225	260	240	230	220	C	C
17	220	220	220	220	220	240	260	240	230	220	210	200
18	240	240	240	220	260	220	220	245	230	220	220	220
19	230	260	250	220	210	200	240	240	220	220	210	200
20	220	220	225	225	260	240	220	240	230	210	210	C
21	240	235	230	220	220	220	260	250	235	220	215	195
22	220	215	220	235	240	215	240	245	225	215	205	205H
23	235	220	230	245	255	235	240	255	230	220	210H	U210B
24	230	250	245	220	220	225	255	250	230	220	210	200
25	240	220	225	220	220	250	280	240	225	215	200	195
26	220	210	210	230	240	230	270	240	220	210	200	190
27	215	210	210	220	220	230	270	240	230	210	205	200
28	220	220	240	260	240	225	250	240	225	215	205	200
29	225	210	210	225	220	220	260	245	220	205	200	190

Count	29	28	28	28	28	28	28	27	28	29	28	26
Median	235	230	225	230	220	225	250	245	230	220	210	200
Mean	240	235	230	230	230	230	255	250	230	220	210	205

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

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

TABLE 19 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	200	205	215	230	260	290	370	F	280	260	260	1
205	205	210	220	230	250	300	390	F	360	250	255	2
200H	210	215	230	240	260	300	400	F	F	280	255	3
200	210	U225B	225	230	265	300	420	385F	340	260	240	4
C	205	210	220	235	260	295	340	330	315	275	245	5
205H	205	220	220	240	260	310	400	U360F	300F	255	265	6
C	C	C	215H	230	260	300	U440F	U510F	F	U300F	U250F	7
C	205H	205	220	C	265	300	380	F	U400F	U270F	265F	8
200	210H	215	210	235	260	290	425	F	F	U280F	U255F	9
205	200	205H	225	230	250	280	U380F	U420F	U400F	U300F	265F	10
210	205	210	215	220	250	285	390	F	U370F	U305F	275	11
195	205	210	A	230	240	290	C	C	C	C	280	12
210	200	200	220	235	255	290	F	F	U350F	315	260	13
205	205	210	215	245	260	300	370	U375F	330	270	240	14
210	205	200H	210	235	260	285	U445F	F	F	F	240	15
210	200	205	205	210	250	280	370	300	U320F	300F	225	16
200	200	200	210	230	250	290	400	420	U310F	260	240	17
210	215	220	220	230	240	265	300	285	260	240	240	18
200	200	200	200	200	240	270	360	360	300	260F	240	19
200	210	210	220	220	245	280	360	360F	300	240	230	20
195H	200	200	210	230	255	275	325	355	295	275	240	21
205	205	205	205	230	260	285	360	365	F	270	250	22
200	210	205	215	235	260	280	360	F	F	U310F	240	23
C	200	195H	215	240	255	285	420	F	C	C	C	24
190	190	190	190	230	250	285	420	420F	280F	300	240	25
180	200	195	190	220	240	280	400	420F	360F	280F	230	26
200	190	190	210	220	245	280	380	320	240	220	220	27
195	190	180H	220	230	250	280	400	360F	240F	270F	260	28
180	185	180H	200	U260A	255	295	395	F	F	F	220	29
24	28	28	28	28	29	29	27	17	20	25	28	Count
200	205	205	215	230	255	285	390	360	310	270	240	Median
200	200	205	215	230	255	290	385	375	320	275	245	Mean

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

Characteristic : h'F

Unit : Km

Month : February 1960

TABLE 19 (Contd.)

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2°N

Longitude : 77.5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	320	255	220	200	210	225	270	240	225	210	200	200
2	255	250	240	220	220	220	255	240	230	205	200 <sup>H</sup>	200
3	245	285	275	255	220	225	270	245	225	215	205	195 <sup>H</sup>
4	255	240	240	225	215	230	270	245	235	220	205	210
5	240	250	260	290	265	230	260	245	230	225	210	C
6	255	265	255	220	220	240	280	250	240	230	210	205
7	C	C	C	C	C	C	C	C	C	220	C	C
8	240 <sup>F</sup>	230	230	230 <sup>F</sup>	225	220	260	240	230	220	210	205 <sup>H</sup>
9	245	235	225	220	220	230	275	245	230	220	215	200
10	225 <sup>F</sup>	215	215	220	235	240 <sup>F</sup>	270	245	225	215 <sup>H</sup>	205	205
11	230	225	215	220	210	210	260	240	225	220	210	200
12	225 <sup>F</sup>	230	225	265	260	220	260	240	225	215	205	200
13	220	220	215	215	220	240	270	C	235	220	215	215
14	230	220	210	230	280	295 <sup>F</sup>	280	260	240	230	225	215
15	220	220	235	260	265	245	265	245	230	215	220	205
16	230	240	220	220	220	220	260	240	220	215	C	205
17	220	220	220	215	220	240	260	240	220	215	200	200
18	240	240	220	240	225	200	260	240	220	220	220	210
19	240	260	240	220	200	205	260	235	220	210	205	200
20	220	240	220	245	280	205	240	240	220	210	200	200
21	235	235	225	220	220	230	265	245	230	225	205 <sup>H</sup>	200 <sup>H</sup>
22	220	215	230	235	225	220	260	240	220	210	205	205
23	220	220	235	260	250	220	265	240	225	215 <sup>H</sup>	200	B
24	235	250	225	220	220	225	265	245	220	220 <sup>H</sup>	205	200
25	225	220	220	225	220	250	255	230	220	210	200	190
26	215	210	220	235	230	240	255	230	220	205	200	190
27	210	210	220	225	225	240	255	230	220	210	200	190 <sup>H</sup>
28	220	230	260	260	245	220	260	235	220	215	200	200
29	220	210	215	220	220	F	240	230	215	200	195	190
Count	28	28	28	28	28	27	28	27	28	29	27	26
Median	230	230	225	225	220	225	260	240	225	215	205	200
Mean	235	235	230	230	230	230	260	240	225	215	205	200

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

Characteristic : h'F

TABLE 19 (Contd.)

Latitude : 10.2°N

Unit : Km

Ionospheric Data

Longitude : 77.5°E

Month : February 1960

75.0°E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
205 <sub>H</sub>	215	220	225	245	270	330	F	F	270	260	260	1
210	205	210	230	240	270	340	F	F	295	260	235	2
220	B	225	230	245	280	370	U360 <sub>F</sub>	275	310	255	255	3
205	205	205 <sub>H</sub>	230	245	280	360	440	C	305	240	245	4
200	215	220	220	250	275	325	340	340	280	260	245	5
210	210	210	220	250	280	360	U380 <sub>F</sub>	U320 <sub>F</sub>	260 <sub>F</sub>	260	270	6
C	C	210 <sub>H</sub>	230	240	270	360	F	F	F	U320 <sub>F</sub>	U265 <sub>F</sub>	7
200 <sub>H</sub>	205 <sub>H</sub>	220	C	C	280	350	U390 <sub>F</sub>	F	F	U270 <sub>F</sub>	270 <sub>F</sub>	8
210	210 <sub>H</sub>	215	220	245	270	340	F	F	F	F	U235 <sub>F</sub>	9
200	205 <sub>H</sub>	230 <sub>H</sub>	230	245	260	U330 <sub>F</sub>	U400 <sub>F</sub>	U410 <sub>F</sub>	F	U260 <sub>F</sub>	260	10
200	205	215	220	235	270	340	U430 <sub>F</sub>	F	U325 <sub>F</sub>	U305 <sub>F</sub>	245	11
200	205	A	220	235	260	360	C	C	C	C	255	12
205	210	215	230	240	265	360	U420 <sub>F</sub>	F	U340 <sub>F</sub>	270	235	13
205	205	220	240	260	280	340	375	345	300	240	225	14
205	205 <sub>H</sub>	200	220	245	270	340	F	F	F	U305 <sub>F</sub>	220	15
200	200	205	220	240	260	330	360	U300 <sub>F</sub>	350 <sub>F</sub>	240 <sub>F</sub>	230	16
195	200	210	215	240	260	330	410	U390 <sub>F</sub>	280	245	240	17
210	215	220	220	235	260	280	300	265	250	230	220	18
200	205	200	205	235	260	310	360	320	300	240	240	19
200	205	215	220	230	260	310	360 <sub>F</sub>	320 <sub>F</sub>	270	240	240	20
205 <sub>H</sub>	205	210	220	240	260	300	355	325	280	255	225	21
200 <sub>H</sub>	205	205	220	235	270	320	380	340	295	260	240	22
210	205	215	220 <sub>H</sub>	245	270	320	F	U400 <sub>F</sub>	U350 <sub>F</sub>	260	225	23
200	200 <sub>H</sub>	195	230	240	270	340	F	F	F	U275 <sub>F</sub>	240	24
190	195	190	210	240	260	355	F	320	F	260	220	25
205	200	195	205	230	260	330	F	360 <sub>F</sub>	270 <sub>F</sub>	250 <sub>F</sub>	220	26
190	195	195	220	240	260	320	360	270	230	220	220	27
200	180 <sub>H</sub>	190	220	235	260	330	400 <sub>F</sub>	280	260	240	220	28
185	180	180 <sub>H</sub>	225	255	270	345	F	F	U315 <sub>F</sub>	230 <sub>F</sub>	220	29
28	27	28	28	28	29	29	18	17	21	27	29	Count
200	205	210	220	240	270	340	380	320	295	260	240	Median
200	205	210	220	240	270	335	380	330	290	255	240	Mean

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



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

TABLE 20  
 Ionospheric Data  
 75.0 E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

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

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

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

TABLE 20 (Contd.)  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

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

2	.	.	2	4	10	Count
..	..	.	..	.	115	Median
..	..	..	..	..	115	Mean

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

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

TABLE 20 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

Latitude 10·2°N  
Longitude 77·5°E

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

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

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

TABLE 20 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

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

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

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

TABLE 21  
Ionospheric Data  
75°0'E Mean Time

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

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

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

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

TABLE 21 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

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

24	28	28	29	28	28	2	..	1	2	3	3	Count
100	100	100	100	100	100	.	..	.	..	..	..	Median
100	100	100	100	100	100	..	..	..	.	..	..	Mean

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

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

TABLE 21 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								100	100	100	100	100
2								100	100	100	100	100
3		105	105				G	100	100	100	100	100
4							G	100	100	100	100	100
5			115					100	100	100	100	C
6							100	100	100	100	100	100
7	C	C	C	C	C	C	C	C	C	100	C	C
8								G	100	100	100	100
9								100	100	100	100	100
10							G	100	100	100	100	100
11								100	100	100	100	100
12							G	100	100	100	100	100
13							135	C	100	100	100	100
14							G	100	100	100	100	100
15								G	100	100	100	100
16		100					G	100	100	100	C	100
17			100					120	100	100	100	100
18								G	G	100	G	100
19	100	100					G	100	100	100	100	100
20							G	G	G	100	100	100
21							G	100	100	100	100	100
22								G	100	100	100	100
23			110				G	100	100	100	100	100
24							120	100	100	100	100	100
25							G	100	100	100	100	100
26							G	100	100	100	100	95
27							G	100	100	100	100	100
28		100	100				G	G	100	100	100	100
29							G	G	100	100	100	100
Count	1	4	5	.	.	.	3	20	26	29	26	27
Median	..		105	.	..	.	..	100	100	100	100	100
Mean	..	..	105	.	..	.	.	100	100	100	100	100

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

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

TABLE 21 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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



Characteristic : (M 3000) F2  
 Unit : . . . .  
 Month : February 1960

TABLE 22  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2° N  
 Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	F	F	F	3.20	3.30	2.60	2.80	2.45	2.40	2.25	2.30
2	2.65	2.80	2.90	3.05	3.10s	3.25	2.60	3.10	2.80	2.35	2.30	2.15
3	2.85	2.70	2.70	2.80	2.95	3.00	3.05	2.80	2.45	2.20	2.20	2.20
4	2.75	2.85	2.90	F	3.10	3.20	2.60	3.00	2.80	2.50	2.00H	2.40
5	u2.65F	u2.60F	2.85	F	2.60	2.95	3.20	2.95	2.80	2.50	2.20	2.15
6	u2.80s	2.75	2.75	2.90	3.10	3.15	3.05	2.80	2.60	2.40	2.40	2.25
7	2.55	C	C	C	C	C	C	C	C	2.40	2.30	C
8	F	F	F	u3.00s	3.00F	3.20	3.10	3.00	2.80	2.65	2.45	2.20
9	u2.70F	u2.70F	u2.80F	3.00	3.40	3.20	2.75	3.00	2.75	2.50	2.35	2.20
10	u2.90F	u3.15F	F	F	F	u3.20F	F	2.80F	2.60	2.40	2.45	2.40
11	F	u3.00F	F	3.05	3.20	F	3.05	2.90	2.55	2.45	2.35	2.40
12	2.85	F	3.05	u3.05s	Fs	3.00	F	u2.80s	2.80	2.55	2.30	2.25
13	F	Fs	Fs	u3.25s	u3.30s	3.20	2.75	C	2.75	2.45	2.35	2.35
14	3.00	3.15	3.30	u3.35s	u3.15s	F	u2.65F	2.80	2.60	2.55	2.30	2.30
15	3.10	u3.20s	u3.25s	u3.00s	2.95	2.90	2.95	3.15	2.85	2.70	2.35	2.25
16	F	3.15	3.30	3.35	3.40	3.30	2.80	u3.00s	2.80	2.60	C	C
17	3.10	F	u3.25Fs	u3.30s	3.45	3.40	2.90	3.10	2.95	2.65	2.30	2.50
18	2.95	2.95	3.05	3.20	3.00	3.20	3.20	3.15	3.20	3.00	2.80	2.65
19	3.05	3.00	3.00	3.15	3.40	3.40H	3.10	3.05	2.75	2.65	2.55	2.50
20	3.10	3.10	3.25	u3.25s	2.95	u3.05s	3.30	3.20	3.25	3.05	2.70	C
21	2.90	3.00	3.10	3.35	3.40	3.30	3.20s	3.00	2.65	2.60	2.50	2.45
22	3.05s	3.15	3.20	3.20	3.20	3.40	3.25	3.15	u3.05s	2.80	2.40	2.30
23	2.95	3.15	3.20	3.15	3.10	3.30	3.15	3.05	2.80	2.45	2.40	2.40
24	2.90	2.95	3.10	3.20	3.35	3.50	3.15	3.00	2.65	2.50	2.50	2.55
25	F	u3.10s	3.00	F	3.40	3.40	2.85	3.20	2.95	2.40	2.45	2.50
26	F	F	F	3.10s	3.10F	3.40	2.85	3.15	2.80	2.35	2.45	2.45
27	3.10s	3.30	F	F	F	3.35	3.40	2.90	2.60s	2.55	2.40	2.40
28	u3.10s	u3.15s	3.10	u3.10s	3.15s	3.25	3.15	3.15	2.95	2.45	2.45	2.40
29	3.10	F	F	3.30s	F	F	3.10Fs	3.40	3.15	2.85	2.25RH	2.40
Count	22	21	20	22	24	25	26	27	28	29	28	26
Median	2.90	3.00	3.10	3.15	3.15	3.25	3.05	3.00	2.80	2.50	2.40	2.40
Mean	2.90	3.00	3.05	3.15	3.15	3.25	3.00	3.00	2.80	2.55	2.40	2.35

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

Characteristic : (M 3000) F2  
 Unit : . . . .  
 Month : February 1960

TABLE 22 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	2.10	2.10	2.15	2.20	2.25	2.20	2.15	2.20	2.40	2.50	u2.55s	1
2.20	2.20	2.20	2.20	2.15	2.15	2.05	1.90	Fs	F	2.60	u2.70s	2
2.20	2.15	2.15	2.20	2.25	2.30	2.10	2.00	F	F	F	F	3
2.10	2.10	2.10	2.10	2.20	2.20	2.05	2.00	u2.00F	Fs	F	F	4
C	2.15	2.20	2.10	2.10	2.05	2.15	2.20	2.20	2.25	2.45	2.65	5
2.15	2.10	2.10	2.10	2.10	2.00	2.05	2.00	2.15F	u2.40F	F	u2.40F	6
C	C	C	2.10	2.15	2.15	2.20	2.00F	F	F	F	F	7
C	2.20	2.15	2.15	C	2.10	2.10	2.10	F	F	F	u2.55F	8
2.20	2.10	2.10	2.10	2.15	2.10	2.20	2.00	F	F	F	F	9
2.40	2.30	2.35	2.30	2.30	2.30	u2.10s	u2.00F	F	F	F	u2.55F	10
2.30	2.20	2.30	2.20	2.15	2.15	2.10	1.95	F	u2.25F	F	F	11
2.20	2.25	2.30	2.35	2.35	2.25	u2.10s	C	C	C	C	F	12
2.35	2.35	2.30	2.35	2.25	2.30	2.25	u2.00F	F	F	F	F	13
2.30	2.25	2.20	2.15	2.15	2.15	u2.25s	u2.25s	u2.20s	2.30	u2.50F	2.80	14
2.35	2.35	2.40	2.35	2.30	2.25	u2.25s	2.05F	F	F	F	F	15
2.40	2.40	2.45	2.40	2.40	2.35	2.45	u2.10s	F	F	F	F	16
2.50	2.40	2.45	2.45	2.40	2.35	2.30	u2.25s	u2.10F	u2.20F	u2.40s	2.90	17
2.40	2.50	2.65	2.55	2.50	u2.45s	u2.35R	2.30	u2.45s	u2.60s	u2.75s	3.00	18
2.40	2.55	2.40	2.40	2.45	2.40	2.45	2.30	u2.40R	u2.40s	F	F	19
2.30	2.30	2.35	2.30	u2.45s	2.50	u2.35s	2.20	u2.30s	2.40	u2.65s	2.80	20
2.25	2.45	2.45	2.40	2.25	u2.20R	2.35	2.35	u2.40s	u2.55s	2.70	2.80	21
2.30	2.30	2.30	2.35	2.40	u2.30s	u2.40s	u2.20s	F	F	u2.55s	2.65	22
2.45	2.40	2.30	2.35	2.40	2.35	u2.25s	2.10	u2.10s	F	2.40	2.70	23
C	2.30	2.30	2.30	2.30	2.40	2.35	2.05	u2.10F	C	C	C	24
2.40	2.40	2.30	2.30	u2.30s	2.30s	2.30s	2.00	F	F	F	F	25
2.40	2.45	2.50	2.50	u2.40R	2.35	2.20	2.00s	F	F	F	3.00s	26
2.45	2.25	2.25	2.25	2.30s	2.35	2.40	2.25	2.40	S	3.05	3.10	27
2.35	2.30	2.25	2.30	2.40	2.40	2.30	2.05	F	F	F	F	28
2.45	2.40	2.30	2.30	2.30	2.20	2.20	2.00	F	F	F	F	29
24	28	28	29	28	29	29	28	13	10	11	15	Count
2.35	2.30	2.30	2.30	2.30	2.30	2.25	2.05	u2.20	u2.40	2.55	2.70	Median
2.30	2.30	2.30	2.30	2.30	2.25	2.25	2.10	u2.25	u2.40	2.60	2.75	Mean

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

Characteristic : (M3000) F2  
 Unit : . . . .  
 Month : February 1960

TABLE 22 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

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

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

Characteristic : (M3000)F2  
 Unit : . . . .  
 Month : February, 1960.

TABLE 22 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10.2° N.  
 Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.15	2.10	2.10	2.15	2.25	2.25	U2.15s	2.15	2.30	U2.35s	2.55	2.60	1
2.15	2.20	2.20	2.20	2.15	U2.10s	U2.00rs	U2.00s	F	2.30	2.60	U2.80s	2
2.20	2.20	2.20	2.20	2.30	2.20	2.05	U2.05F	F	F	F	2.60	3
2.10	2.10	2.10	2.15	2.20	2.10	U2.10s	U1.95F	C	Fs	U2.50F	2.75	4
2.10	2.15	2.20	2.10	2.05	2.10	2.15	2.10	2.20	2.40	2.60	2.65	5
2.10	2.10	2.15	2.15	2.10	2.00	2.05	U2.00F	U2.20F	2.60F	2.65	U2.50F	6
C	C	2.10	2.10	2.15	2.15	2.10	F	F	F	F	2.80	7
2.15	2.15	2.20	C	C	2.00	2.10	2.05	F	F	U2.70F	F	8
2.15	2.15	2.15	2.10	2.15	2.15	2.15	F	F	F	F	F	9
2.35	2.35	2.30	2.30	2.25	U2.20R	U2.00s	F	F	F	F	F	10
2.20	2.20	2.25	2.25	2.15	2.20	2.10	U2.00F	F	F	F	2.70	11
2.20	2.30	2.30	2.35	2.30	2.15s	2.10	C	C	C	C	F	12
2.30	2.30	2.30	2.35	2.25	2.30	2.15	U2.00F	F	F	F	Fs	13
2.30	2.25	2.20	2.20	2.15	2.20	U2.30s	2.20	2.25F	2.45	Fs	2.95	14
2.35	2.35	2.40	2.35	2.30	U2.25s	2.20s	F	F	F	F	F	15
2.40	2.50	2.45	2.40	2.40	U2.30s	2.20	F	F	F	F	3.00	16
2.40	2.40	2.45	2.40	2.30	U2.40s	U2.30s	U2.10F	F	U2.40s	2.80	2.90	17
2.45	2.60	2.60	2.55	2.50	2.45	U2.30R	2.35	2.55	U2.65s	U2.85R	3.05	18
2.50	2.45	2.40	2.40	2.45	2.35	2.40	2.25	2.40	2.60	F	3.00	19
2.30	2.30	2.30	2.40	2.45	U2.50s	2.30	2.10	U2.30Fs	U2.50s	U2.75s	2.90	20
2.35	2.50	2.40	2.30	U2.20R	2.25	2.35	U2.40s	U2.35F	2.60	2.75	U2.90s	21
2.40	2.30	2.30	2.35	2.35	U2.30s	U2.35s	2.10	U2.20F	U2.50Fs	2.60	2.90	22
2.30	2.35	2.35	2.40	2.40	2.25	2.15	U2.10s	U2.10F	U2.20F	2.60	2.90	23
2.40	2.25	2.30	2.35	2.35	2.40	2.25	U2.05F	F	F	F	F	24
2.45	2.30	2.30	2.30	U2.25s	2.35s	2.15	F	F	F	F	F	25
2.40	2.45	2.50	2.45	U2.40R	2.35s	2.10R	F	F	F	F	F	26
2.35	2.25	2.25	2.25	2.35	2.40	2.35	2.30	2.60	2.95	3.15	U3.05s	27
2.35	2.30	2.25	2.35	2.40	2.35	2.15	F	F	F	F	F	28
2.40	2.35	2.30	2.30	2.25	2.25	2.10	U1.90w	U2.00F	U2.30r	F	F	29
28	28	29	28	28	29	29	20	12	14	13	18	Count
2.30	2.30	2.30	2.30	2.30	2.25	2.15	2.10	2.30	2.50	2.65	2.90	Median
2.30	2.30	2.30	2.30	2.30	2.25	2.20	2.10	2.30	2.50	2.70	2.85	Mean

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

Characteristic : foF2  
Unit : Mc  
Month : March, 1960.

TABLE 23  
Ionospheric Data  
75 0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	10·4	F	7·2	6·2	F	U5·2F	6·2H	9·2	11·6	12·5	11·7	10·4
2	10·7	10·5	9·4	8·8	8·8	8·8	9·1	11·3	13·0	13·8H	13·7H	U11·6W
3	10·8	10·8	U10·4s	8·8	8·2	8·2	8·6	10·7	11·8	13·5	13·8	13·4
4	11·3	10·4	8·9	U7·3s	6·4	5·1	5·6	9·2	11·4	11·8	11·3	10·7
5	Fs	Fs	Fs	F	7·5	F	7·9	10·6	11·7	12·1	12·0	11·7
6	11·8	10·8	10·2	U8·2F	7·2	6·1	5·6	U9·2s	10·6	10·7	10·1	C
7	8·9	7·9	F	U5·9s	U6·3F	6·4	6·4	10·0	12·1	12·4	11·6	10·7
8	F	U10·0F	7·9F	6·5	U5·0F	F	U5·2F	9·2	11·0	11·8	10·9	9·7
9	F	U9·3F	8·4F	7·0F	5·9	5·5	6·8	8·8	10·7	11·5	11·7	11·6
10	U8·2F	8·4	9·0	8·1	7·5	6·7	6·9	10·0	11·8	12·2	11·3	10·8
11	F	10·8	F	F	8·3	6·8	6·8	9·9	11·4	11·1	10·6	10·1
12	12·6	13·7	11·4	8·9	7·0	4·4	4·8	9·0	10·8	10·6	10·1	10·0
13	F	F	8·8F	F	F	U3·5F	U4·9s	9·0	11·0	C	C	C
14	F	F	8·6	F	U6·2s	5·8	F	U9·6Fs	U11·2R	11·0	10·0	9·5
15	U9·2s	F	F	8·0	7·1	U6·4s	6·4	9·7	U11·6s	12·3	12·4R	11·0
16	10·0	9·2	8·9	8·7	F	6·3	5·9	U9·8s	11·0	11·3	13·4	14·2
17	14·0	14·2	12·6	11·6	11·6	10·4	8·8	11·0	12·8	13·8	14·0	13·6
18	F	11·0	8·5	8·2	U8·6F	U8·0F	6·4	10·0	12·4	12·6	10·6	10·6
19	U10·9F	11·5	U9·7F	F	F	F	F	10·1	12·0	13·0	13·2	11·8H
20	12·3	F	U9·9s	8·7	U8·3F	7·7	8·1	10·5	C	C	C	C
21	11·8	10·9	U9·7F	8·4	U7·4s	5·8	6·2	10·0	11·4	12·7	12·7	11·8
22	12·0	10·8	9·6	7·7	7·3	6·2	6·0	U9·7s	11·5	12·7	12·2	11·7
23	F	U9·8s	9·0	7·8	5·7	3·5	5·6	9·6	11·7	12·7	11·8	10·7
24	10·4	F	F	7·4	U6·4F	4·9	6·3	U9·6s	11·3	11·8	11·1	11·0
25	F	F	11·2	F	F	F	8·6	10·6	RH	10·1	10·1	10·4
26	F	U11·0F	F	F	6·1	4·0	5·8	9·8	11·6	11·0	10·6	10·8
27	F	F	10·4	U9·4F	U6·1F	14·5Fs	6·3	10·0	11·6	11·6	10·3	10·1
28	F	11·2	F	F	F	3·3	5·8	10·0	U11·8s	13·1	12·6H	11·0
29	Fs	U12·6Fs	Fs	U9·2Fs	F	F	7·1F	10·5	12·4	12·8R	11·7	11·3
30	F	F	F	F	F	F	6·0	U9·8s	11·8	13·1	12·8H	10·6
31	F	F	F	11·2F	10·4	9·7	U9·2s	11·7	13·4	13·6	11·7	10·2
Count	16	20	21	22	23	25	29	31	29	29	29	28
Median	10·8	10·8	9·4	8·2	7·2	6·1	6·3	9·9	11·6	12·3	11·7	10·8
Mean	11·0	10·7	9·5	8·3	7·4	6·1	6·7	9·9	11·7	12·2	11·7	11·1

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

Characteristic : foF2  
 Unit : Mc  
 Month : March, 1960.

TABLE 23 (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
10.3	9.9	10.0	10.6	11.3	11.8	11.0	9.9	10.5	11.3	11.6	11.5	1
11.4	11.8	11.8	11.8	12.4	12.5	11.4	10.5	10.7	11.9	12.7	11.4	2
13.1	12.8	13.3	13.3	13.6	13.7	12.8	11.1	10.8	U11.6F	U12.4s	12.4	3
10.8	11.0	11.2	11.5	11.7	11.8	11.1	U9.0R	F	F	F	F	4
11.7	11.7	12.6	13.3	13.7	13.1	12.7	F	U8.7F	F	11.5	12.5	5
9.6	9.6	9.7	10.0	10.4	11.0	11.0	9.1	8.4	F	9.4F	F	6
10.5	10.5	10.8	11.3	11.4	11.3	10.7	8.6	F	F	F	F	7
9.5	9.7	10.4	10.8	10.8	10.7	10.1	8.5F	F	C	F	F	8
11.7	11.7	11.6	11.3	11.0	10.6	U9.4s	8.7	U9.2F	F	F	F	9
10.9	10.7	11.0	11.6	12.5	12.8	12.7	U11.1F	F	F	F	F	10
10.8	11.4	12.2	13.1	13.6	13.5	13.0	U12.0R	U12.0FS	U11.6s	12.6	12.6	11
10.0	10.6	10.9	11.6	12.0	U11.8s	U11.0R	U9.0F	F	F	F	Fs	12
C	C	9.5	9.9	10.6	10.8	10.8	U9.6s	F	F	F	F	13
9.4	9.4	9.8	10.4	11.0	U11.8s	11.6	U9.4s	F	F	F	F	14
10.8	10.6	10.9	11.4	12.0	12.4	11.7	U10.2s	F	F	F	F	15
14.2	14.3	14.0	13.6	13.0	12.4	12.4	12.8	13.0	13.4	14.0	13.0	16
12.3	11.8	12.5	12.7	13.0	13.0	12.6	11.2	10.6	F	F	Fs	17
10.7	11.4	11.7	11.7	12.0	12.2	11.4	9.5	F	F	F	F	18
10.0	9.7	9.8	10.3	11.0	11.2	11.0	9.5	U8.8F	9.5	U10.6F	F	19
C	11.2	11.6	12.1	12.4	12.6	11.5	9.0	F	F	F	F	20
11.2	11.5	11.8	12.7	12.8	12.9	U12.0s	F	F	U9.6s	11.4	F	21
11.6	11.8	12.5	13.0	13.1	12.8	U11.1R	8.2	F	F	F	U10.8F	22
10.8	11.8	12.6	13.1	13.5	13.2	12.7	U10.8F	F	F	F	F	23
10.5	10.8	11.8	12.4	12.8	U12.5R	U12.0s	U9.8FS	F	F	F	F	24
10.3	10.9	11.6	12.9	13.4	13.6	U13.0s	U10.8FS	F	F	F	F	25
11.2	12.0	13.0	13.6	14.2	14.1	U13.8s	F	F	F	F	F	26
10.5	10.8	11.5	12.2	12.4	12.8	13.0	11.4F	F	F	F	U13.2s	27
10.7	11.3	11.8	12.8	12.9	12.6R	12.6	10.0	F	F	F	F	28
10.8	11.4	11.9	12.6	13.1	12.8	U12.0s	10.8	F	F	F	F	29
10.9	11.2	11.8	C	13.2	14.2	13.7	U11.2F	F	F	F	F	30
10.7	11.3	11.8	12.6	12.9	12.3s	12.5	15.2s	13.4	11.0	7.8	6.2s	31
29	30	31	30	31	31	31	28	11	8	10	9	Count
10.8	11.2	11.7	12.2	12.5	12.6	12.0	10.0	10.6	U11.4	11.6	12.4	Median
10.9	11.2	11.5	12.0	12.4	12.4	11.9	10.2	10.6	U11.2	11.4	11.5	Mean

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : foF2  
 Unit : Mc  
 Month : March, 1960.

TABLE 23 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	7.8	6.7	F	U5.7F	U5.1F	6.6	10.3	12.4	12.3	10.9	10.3
2	10.8	9.9	8.7	8.8	8.8	8.7	10.1	12.1	13.3	14.1	12.9H	11.1
3	10.7	10.4	U9.8s	8.7	8.3	8.0	9.7	11.2	12.9	13.9	13.6	13.3
4	11.0	U9.4s	8.4	6.7	5.5	4.7	U7.6s	10.5	11.9	11.7	10.8	10.7
5	Fs	Fs	U8.6s	8.3	7.3	U6.8s	9.3	11.3	11.7	11.9	11.7	11.6
6	11.4	10.7	9.1	7.6	7.0	5.2	7.4	10.2	10.8	10.6	10.2	9.7
7	8.6	U7.2s	U6.0F	U6.0F	6.6	U6.1s	8.2	11.1	12.2	12.2	11.0	10.6
8	F	U10.0F	6.8	6.0	F	F	7.4	10.4	11.6	11.8	10.4	9.4
9	F	U9.3F	F	6.2	5.7	5.6	8.0	10.1	11.4	11.6	11.8	11.5
10	7.9	8.7	8.5	7.8	7.0	6.4	8.5	10.8	12.2	11.7	11.2	10.8
11	F	U9.6s	F	9.0	7.8	5.6	8.4	10.8	11.0	11.0	10.0	10.6
12	13.2	12.6	6.0	7.7	5.7	2.8	7.0	10.0	10.8	10.4	10.0	10.0
13	F	F	F	F	J4.4F	F	U7.4s	10.2	C	C	C	C
14	F	J10.0F	F	U6.8F	J6.3s	U5.6F	U8.0F	U10.8Fs	11.4	10.4	9.8	9.4
15	U9.2s	U8.6s	F	U7.6s	6.5	U5.8s	8.3	10.8	12.0	12.6	11.8	10.8
16	9.5	8.8	9.2	8.7	F	4.7	8.1	11.0	11.2	12.6	13.9	14.3
17	14.2	13.4	11.6	12.2	10.6	9.3	10.2	12.2	13.6	14.1	13.9	12.6
18	11.7	U9.7s	8.4	8.1	U8.5F	6.6	8.2	11.2	12.6	11.9	10.6	10.0
19	11.7	10.7	F	F	F	F	8.5	11.0	12.6	13.4	12.6H	10.6
20	11.6	F	9.2	9.0	7.9	7.6	9.4	C	C	C	C	C
21	11.6	F	F	7.9	6.8	F	8.3	10.7	12.0	12.7	12.1	11.4
22	11.4	10.0	8.7	7.4	7.1	5.0	7.9	10.6	12.2	12.8	11.8	11.4
23	U10.6F	F	8.4	7.2	4.6	3.3H	7.9	10.7	12.4	12.5	11.0	10.8
24	F	F	7.6	F	5.4	4.3	8.2	10.7	11.6	11.3	11.2	10.7
25	F	U11.4F	F	11.2	10.7	U8.3Fs	9.6	11.0	10.0	10.0	10.2	10.1
26	F	9.9	F	6.8	4.8	3.1	8.2	11.0	11.6	10.5	10.6	11.1
27	F	F	F	U7.6F	U5.4F	U3.8F	8.5	11.0	12.0	10.5	10.2	10.3
28	F	F	F	6.7F	4.7	3.4H	8.2	11.0	12.6	13.0	11.5	10.8
29	F	Fs	F	F	F	6.4F	9.2	11.7	12.8	11.7	11.3	11.1
30	12.7	10.7	F	F	F	F	8.2	10.8	12.6	13.2	11.6H	10.8
31	F	F	F	10.5	10.4	8.6	10.4	12.8	13.6	12.8	10.5	10.5
Count	17	21	17	25	26	26	31	30	29	29	29	29
Median	11.4	9.9	8.6	7.8	6.7	5.6	8.2	10.8	12.0	11.9	11.2	10.8
Mean	11.0	9.9	8.6	8.0	6.9	5.8	8.4	10.9	12.0	12.0	11.3	10.9

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

Characteristic : foF2  
 Unit : Mc  
 Month : March, 1960.

TABLE 23 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
10·2	9·8	10·4	11·0	11·6	11·4	10·7	U10·0s	10·8	11·6	11·3	10·8	1
11·8	11·7	11·5	11·9	12·4	11·7	10·8	10·5	11·6	12·7	12·4	10·9	2
13·0	13·0	13·1	13·5	13·8	13·4	11·8	10·7	11·1	12·1	12·4	11·6	3
10·9	11·1	11·4	11·5	U11·6s	11·6	U10·2s	U8·3F	F	F	F	Fs	4
11·7	12·1	12·7	13·5	13·6	12·9	11·7	F	9·3	10·6	12·4	12·1	5
9·4	9·5	9·8	10·2	10·7	10·8	10·4	F	8·6	U9·2F	F	F	6
10·6	10·6	11·0	11·4	C	11·0	U9·8s	U7·8F	F	F	F	F	7
9·4	10·2	10·5	10·7	10·6	10·5	9·5	F	C	U9·2F	F	F	8
11·7	11·6	11·6	11·1	10·8	10·3	9·4	8·6	U9·8F	F	F	F	9
10·9	10·9	11·2	12·0	12·9	12·9	12·0	F	F	F	F	F	10
11·4	11·8	12·6	13·4	13·6	U13·2R	J12·4R	U11·8FS	U12·0s	12·2	12·6	12·6	11
10·2	10·7	11·3	12·0	U12·1R	U11·6s	U10·0s	F	F	F	F	F	12
C	C	9·5	10·4	10·8	10·8	10·8	U10·5s	8·6	F	F	12·6	13
9·4	9·6	10·0	10·8	11·4	U11·8s	11·0	F	F	F	F	F	14
10·7	10·7	11·0	11·7	12·3	U11·8s	11·2	F	F	F	F	10·6F	15
14·6	14·2	14·0	U12·8R	12·2	12·4	12·6	12·8	13·2	13·7	13·5	13·2	16
12·2	12·3	12·6	12·9	13·2	12·6	12·0	U10·6F	C	F	F	12·5	17
11·0	11·3	11·7	12·0	12·4	U11·8s	10·5	F	F	F	F	F	18
9·7	9·8	10·1	10·6	11·2	11·0	10·6	8·7	9·0	F	U11·3F	F	19
C	11·4	12·0	12·3	12·5	12·2	10·8	F	F	F	F	Fs	20
11·3	11·5	12·7	12·7	13·1	12·6	11·0	U8·5F	U8·9s	11·4	11·6	U11·8s	21
11·8	12·0	12·6	13·1	13·0	12·4	U10·6RS	F	F	F	F	F	22
11·3	12·0	12·8	13·4	13·5	13·1	U11·8s	F	F	F	F	Fs	23
10·7	11·4	12·1	12·7	12·6	12·2	11·4s	F	F	F	F	F	24
10·6	11·3	12·4	13·1	13·7	U13·2s	J12·2s	F	F	F	F	F	25
11·7	12·4	13·3	13·8	14·1	U14·2s	13·2	F	F	F	F	F	26
10·6	10·9	11·8	12·4	12·6	13·0	12·6	F	F	F	F	F	27
10·8	11·7	12·5	12·7	12·8R	12·6R	11·8s	F	F	F	F	F	28
10·8	11·6	12·4	12·9	13·1	12·8	U11·6s	F	F	F	F	F	29
11·0	11·2	C	C	13·8	14·2	12·8	F	F	F	F	F	30
11·0	11·6	12·1	12·8	12·6	12·4	13·6	15·6	11·8	9·6	6·9s	6·5	31
29	30	30	30	30	31	31	13	11	10	9	11	Count
10·9	11·4	11·9	12·4	12·6	12·4	11·2	10·0	10·8	11·5	12·4	11·8	Median
11·0	11·3	11·8	12·2	12·5	12·2	11·3	10·2	10·6	11·2	11·6	11·4	Mean

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



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

TABLE 24  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L <sub>H</sub>	L <sub>H</sub>	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	C
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	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	C	C	C	C
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Count								..	.	.		..
Median								.		.	.	..
Mean								.	..	..		

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

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

TABLE 24 (Contd.)  
 Ionospheric Data  
 75.0°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L <sup>R</sup>	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 <sup>R</sup>	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				L			11
L	L	L	L	L	L				L			12
C	C	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
L	L	L	L	L	L				L			18
L	L	L	L	L	L				L			19
C	E	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	A	L	L				L			25
L	L	L	L	L	L				L			26
L	L	L	L	L	L				L			27
B	B	B	L	L	L				L			28
L	L	L	C	L	L				L			29
L	L	L	L	L	L				L			30
L	L	L	L	L	L				L			31
..	..	..	..	.	.							Count
..	.	..	..	..	.							Median
	..	..	..	..	..							Mean

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

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

TABLE 24 (Contd.)  
 Ionospheric Data  
 75.0°E Mean Time

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

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

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : FoF1  
 Unit : Mc  
 Month : March, 1960

TABLE 24 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	LH	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	C							7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
C	C	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	L							18
C	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	A	A	L								24
L	L	L	L	L								25
L	A	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
B	B	L	L	L								29
L	L	C	C	L								30
L	L	L	L	L								31
.	.	.	.	.	.							Count
..	..	.	.	.	.							Median
.	..	..	..	..	..							Mean

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

Characteristic : foE  
Unit : Mc  
Month : March, 1960

TABLE 25  
Ionospheric Data  
75 0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								2.5H	A	A	A	A
2								2.5	U3.1A	A	A	A
3								U2.4R	A	A	A	A
4								2.6H	A	A	A	A
5								A	A	A	A	A
6								A	A	A	A	C
7								2.6	A	A	A	A
8								2.6	A	A	A	A
9							2.2	A	A	A	A	A
10								2.5H	A	A	A	A
11								A	A	A	A	A
12								A	A	A	A	A
13								A	A	C	C	C
14								A	A	A	A	A
15								2.6	A	A	A	A
16								2.6	R	B	3.6	A
17								2.5	A	A	A	A
18								2.6H	A	A	A	A
19								2.6	3.3	A	A	A
20								2.7	C	C	C	C
21								U2.6R	F	A	A	A
22								2.6	A	A	A	A
23								2.6	A	A	A	A
24								A	A	A	A	A
25								A	A	A	A	A
26								A	A	A	A	A
27								2.7	A	A	A	A
28								2.7	A	A	A	A
29								2.7	A	A	B	B
30								2.8R	R	A	A	A
31								F	A	A	A	A
Count							1	20	2	..	1	.
Median							..	2.6				
Mean							.	2.6		.	..	..

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

Characteristic : foE  
 Unit : Mc  
 Month : March, 1960

TABLE 25 (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	A							1
A	A	A	A	A	A							2
A	A	A	A	A	A							3
A	A	A	A	A	A							4
A	A	A	A	A	A							5
A	A	A	A	A	A							6
A	A	A	A	A	A							7
A	A	A	A	A	A							8
A	A	A	A	A	A							9
A	A	A	A	A	A							10
A	A	A	A	A	A							11
A	A	A	A	A	A							12
C	C	A	A	A	A							13
A	A	A	A	A	A							14
A	A	A	A	A	A							15
3·6	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
C	A	A	A	A	A							20
A	A	A	A	A	A							21
A	A	A	A	A	F							22
A	A	A	A	A	F							23
A	A	A	A	A	A							24
A	A	A	A	A	A							25
A	A	3·7	3·5 <sup>H</sup>	3·1	A							26
A	B	A	A	A	A							27
A	A	A	A	A	A							28
B	B	B	B	A	A							29
A	B	A	C	3·2	A							30
A	A	A	A	A								31
1	.	1	1	2	.							Count
.	..	.	.	..	..							Median
* ..	.	.	.	..	..							Mean

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

Characteristic : foE  
 Unit : Mc  
 Month : March, 1960

TABLE 25 (Contd.)  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								2.8R	A	A	A	A
2								U2.8R	A	A	A	A
3								U2.8R	A	A	A	A
4							U2.0R	A	A	A	A	A
5							A	A	A	A	A	A
6							1.9	A	A	A	A	A
7							2.3	A	A	A	A	A
8								A	A	A	A	A
9							2.1H	A	A	A	A	A
10							1.9	A	A	A	A	A
11							U2.2R	A	A	A	A	A
12								A	A	A	A	A
13								A	C	C	C	C
14							R	A	A	A	A	A
15							2.1H	2.9	A	A	A	A
16								2.8	R	R	A	A
17								2.9	A	A	A	A
18							R	A	A	A	A	A
19							2.0	3.0	A	A	A	A
20							2.0	C	C	C	C	C
21							U2.4R	U3.1R	A	A	A	A
22							R	U3.1R	A	A	A	A
23								F	A	A	A	A
24								A	A	A	A	A
25							2.1	A	A	A	A	A
26							U2.1R	A	A	A	A	A
27								A	A	A	A	A
28								3.0	A	A	A	A
29								3.2	A	A	A	A
30							2.3	3.1	A	A	A	A
31								A	A	A	A	A
Count							13	12		..	.	
Median							2.1	3.0		.	.	..
Mean							2.0	3.0	..	.	..	.

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

Characteristic : foE  
 Unit : Mc  
 Month : March, 1960

TABLE 25 (Contd.)  
 Ionospheric Data  
 75.0° E Mean Time

Latitude : 10.2° N  
 Longitude : 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A	A							1
A	A	A	A	A	A							2
A	A	A	A	A	A							3
A	A	A	A	A	A							4
A	A	A	A	A	A							5
A	A	A	A	A	A							6
A	A	A	A	A	A							7
A	A	A	A	A	A							8
A	A	A	A	A	A							9
A	A	A	A 3 2	A	A							10
A	A	A	A	A	A							11
A	A	A	A	A	A							12
C	C	A	A	A	A							13
A	A	A	A	A	B							14
A	A	A	A	A	A							15
A	A	A	A	A	F							16
A	A	A	A	A	A							17
A	A	A	A	A	A							18
A	A	A	A	A	A							19
C	A	A	A	A	A							20
A	A	A	A	A	A							21
A	A	A	A	A	F							22
A	A	A	A	A	A							23
A	A	A	A	A	A							24
A	A	A	A	A	A							25
A	A	3.5	3.4	U3 0A								26
A	A	3.8	A	A								27
A	A	A	A	A								28
B	B	B	3.5	A								29
B	A	C	C	3.1F								30
A	A	A	A	A								31
	..	2	3	2	..							Count
	.	..	..	..	.							Median
	..	.	..	..	.							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds



Characteristic : foEs  
Unit : Mc  
Month : March, 1960

TABLE 26  
Ionospheric Data  
75 °E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	3·9							G	11·4	11·4	12·7	12·6
2					1·8			G	4·0	10·7	12·7	12·8
3			S					G	8·8	9·6	12·1	12·4
4								G	10·3	11·4	12·7	12·3
5						3·9		U7·5s	10·4	11·8	14·4	13·4
6								U7·0s	10·8	12·0	12·6	C
7						4·2		G	9·0	10·8	12·6	12·2
8				8·4	4·0			G	11·0	12·0	11·8	11·6
9						8·4	G	8·4	U9·0s	12·2	12·4	12·8
10								G	9·6	11·4	12·0	12·8
11		4·8	3·2	6·0	7·0			7·4	11·6	11·0	12·0	12·6
12								7·0	10·4	11·0	12·8	12·4
13								7·0	11·0	C	C	C
14								U7·2s	10·4	12·0	12·2	12·8
15								G	10·0	12·0	12·4	13·2
16								G	G	6·0	5·8	9·6
17	2·0	1·5						G	8·8	9·8	12·6	12·2
18								G	10·4	10·8	10·2	9·2
19				1·9	5·0			G	6·8	10·8	12·3	12·7
20								G	C	C	C	C
21								5·2	7·6	11·6	12·4	12·4
22								G	8·0	11·4	12·8	12·4
23								G	8·6	10·6	12·6	12·0
24								U8·0s	U11·0s	12·4	13·0	12·0
25	U6·2s		1·8					S	U9·0s	11·0	12·3	12·2
26								U7·0s	9·2s	12·0	12·7	13·0
27	2·5							U8·0s	9·2	11·4	12·0	13·0
28	4·0		3·8					G	U9·0s	13·8	12·4	13·0
29		2·8				3·0		6·0	11·0	12·0	12·6	12·0
30								G	6·0	11·0	12·0	12·0
31		4·8						7·0	10·0	11·4	12·2	12·8
Count	5	4	4	3	4	3	1	30	30	29	29	28
Median	3·9		.			.	.	G	9·4	11·4	12·4	12·4
Mean	3·7	..	..	.		.	..	7·1	9·4	11·2	12·2	12·3

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

Characteristic : foEs  
 Unit : Mc  
 Month : March, 1960

TABLE 26 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
12·6	12·6	12·8	10·7	10·6s	8·8					4·5		1
12·2	12·6	12·6	10·8	11·3	8·2							2
11·8	12·0	10·4	8·1	6·9	7·7							3
11·7	11·7	10·7	10·4	8·6	u8·2s	2·9						4
13·3	12·6	10·7	10·6	11·4	7·8							5
12·6	12·8	12·0	11·8	11·0	8·4							6
12·0	12·8	12·6	10·2	10·8	7·9							7
12·4	12·6	12·8	11·0	11·0	8·2				C			8
12·6	12·0	12·8	10·6	11·0	7·8							9
12·0	10·8	10·8	8·2	u8·6s	8·0							10
11·0	12·0	10·0	8·8	9·2	8·0							11
12·2	12·6	11·4	9·7	8·6	8·6							12
C	C	13·0	12·0	9·4	8·0							13
13·0	12·6	12·0	12·0	10·0	8·0				2·1			14
13·0	13·5	13·0	10·4	10·2	7·8							15
G	9·8	10·8	9·6	9·4	6·8				6·0	3·0	6·6	16
12·7	12·4	11·4	9·8	8·2	6·6							17
10·2	10·5	9·2	9·8	9·4	6·8							18
12·3	12·6	12·0	11·2	9·8	7·6							19
C	13·4	12·4	11·6	10·8	7·6							20
12·4	11·6	11·0	9·5	10·0	6·9							21
11·4	12·0	10·6	10·6	10·4	8·0							22
11·6	11·2	9·3	8·8	u9·0s	8·0							23
12·2	12·0	u11·2s	8·2	u8·8s	S							24
12·0	11·8	9·2	12·8	u10·0s	u7·0s							25
12·0	12·0	5·2	G	G	u8·0s							26
13·0	12·0	10·0	10·8	11·0	7·0					4·0		27
12·0	12·0	11·4	10·8	10·0	8·0							28
B	B	9·8	9·2	10·0	8·2				u5·0s		u6·0s	29
13·0	12·0	12·0	C	8·3	8·0					2·4	2·6	30
12·2	12·6	8·4	12·4	10·2	u8·0s					4·2		31
28	29	31	30	31	30	1	.	.	3	4	4	Count
12·2	12·0	11·2	10·5	10·0	8·0	..	..	..	.	.	..	Median
12·2	12·1	11·0	10·4	9·8	7·8	..	.	..	..	.	.	Mean

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

Characteristic : foEs  
Unit : Mc  
Month : March, 1960

TABLE 26 (Contd.)  
Ionospheric Data  
75 0 E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								G	10·8	12·6	12·4	13·4
2					1·7			3·0	9·7	12·7	12·6	11·2
3			2·6					G	11·2	12·3	11·8	12·3
4							G	9·2	11·0	12·6	11·6	12·1
5					4·3	3·8	3·8	11·6	12·2	12·8	14·5	13·7
6							G	10·0	11·6	12·6	12·6	12·8
7							G	8·2	11·0	12·4	12·0	12·2
8					4·0			10·4	11·0	12·2	11·8	12·6
9							G	9·0	10·8	12·6	12·6	12·0
10							G	6·8	9·8	12·2	13·2	12·6
11	1·9	4·0	4·2	7·0	7·4		G	9·6	10·6	12·0	12·2	12·6
12								10·0	10·0	11·0	12·0	12·3
13							G	8·0	C	C	C	C
14							G	10·0	11·0	12·4	13·6	12·6
15							G	G	10·4	12·6	13·0	13·0
16								G	G	7·6	10·8	9·2
17	3·8							7·8	8·2	12·0	11·8	12·6
18							2·3	9·4	10·8	10·0	8·8	9·2
19							2·2	G	8·4	12·2	12·6	12·4
20			3·8	3·6			2·5	C	C	C	C	C
21							G	G	9·8	11·6	12·6	12·2
22							G	G	10·8	11·4	12·8	11·4
23					2·9			6·8	10·4	12·4	12·4	12·4
24								11·2	11·6	12·6	11·9	12·8
25	2·5						G	8·8	11·0	12·4	12·4	12·4
26							G	u9·0s	12·0	13·0	12·6	12·8
27	2·5							u9·0s	11·6	11·6	12·6	13·0
28								G	11·4	12·4	12·4	12·6
29		2·0		2·4				u8·0s	11·0	12·4	12·0	12·0
30							G	G	10·0	10·8	12·8	12·4
31	3·8	u5·0s						11·0	11·4	12·0	12·4	12·2
Count	5	3	3	4	4	1	18	30	29	29	29	29
Median	2·5	.	.	.	.	.	G	8·1	10·8	12·4	12·4	12·4
Mean	2·9	..	..	..	..	..	..	8·9	10·7	12·0	12·3	12·2

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

Characteristic : foEs  
 Unit : Mc  
 Month : March 1960.

TABLE 26 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.8	12.8	11.6	11.8	8.8	6.4							1
12.3	12.7	11.8	10.7	8.3	S							2
11.9	9.8	9.2	S	8.2	4.6							3
12.3	10.8	11.6	U9.7s	8.1	4.3							4
12.8	12.1	10.8	12.1	8.6	6.8							5
12.6	12.6	12.0	12.0	8.8	6.6							6
13.0	11.8	9.8	9.0	C								7
12.6	11.6	11.0	12.0	8.8	4.2			C				8
12.2	12.0	11.4	9.2	8.6	4.0							9
12.2	11.8	10.8	G	7.0	6.8							10
12.4	10.8	10.6	12.0	9.2	6.0							11
12.2	11.0	10.0	10.6	8.6	8.0							12
C	C	12.0	11.0	8.0	7.0							13
13.0	12.2	12.4	11.0	8.0	U8.0s							14
13.0	13.0	12.0	11.0	8.2	U4.6s							15
8.6	11.6	10.8	10.4	8.0	5.8							16
12.4	12.0	10.0	8.6	7.0	5.7							17
9.4	9.6	11.5	9.5	8.2	5.8							18
12.2	11.8	11.2	10.5	7.8	6.0				2.6	4.6	4.6	19
C	12.8	12.0	10.3	7.8	6.4			4.2	2.2			20
12.8	10.8	9.8	9.6	7.8								21
11.6	11.8	9.8	10.0	8.8	4.6				2.2	2.8		22
10.7	10.8	9.4	8.6	U9.0s	4.2							23
12.4	12.6	10.6	8.3	8.0	S							24
11.6	12.0	U13.0s	U12.0s	U7.5s	S							25
12.1	12.0	G	G	6.8	S							26
12.8	11.8	8.0	11.0	8.0							2.5	27
12.0	12.6	11.4	10.4	8.6								28
B	B	10.0	10.0	8.2								29
11.4	12.0	C	C	7.0	7.0			3.2		3.8	1.9	30
12.8	12.4	8.4	10.0	9.0	4.4							31
28	29	30	29	30	22	..		2	3	3	3	Count
12.3	12.0	10.8	10.4	8.2	5.9	.		..	.	.	.	Median
12.1	11.8	10.8	10.4	8.2	5.8	..	.	..	..	..	.	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : fbEs  
 Unit : Mc  
 Month : March 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	2.1							G	3.1	3.5	3.8	4.0
2								G	3.2	3.5	3.6	4.0
3			1.5					G	3.0	3.6	3.9	3.9
4								G	3.1	3.5	3.8	4.0
5						1.4		2.6	3.2	3.6	4.0	4.0
6								2.6	3.3	3.7	3.8	C
7								G	3.2	3.6	4.0	4.0
8				2.2				G	3.2	3.6	3.8	4.1
9						1.9	G	2.6	3.2	3.7	3.9	4.0
10								G	3.2	3.6	3.7	4.0
11		1.9		2.0	1.7			2.6	3.2	3.6	3.8	4.0
12								2.6	3.2	3.6	3.8	4.0
13								2.6	3.2	C	C	C
14								2.6	3.2	3.7	4.0	4.0
15								G	3.2	3.6	4.0	4.1
16								G	G	.	4.0	4.0
17	2.0	1.5						G	3.1	3.6	3.8	4.0
18								G	3.2	3.6	4.2	4.3
19								G	.	3.7	3.8	4.0
20			1.4	1.6				G	C	C	C	C
21								..	3.2	3.6	4.0	4.0
22								G	3.3	3.7	4.0	4.2
23								G	3.3	3.8	4.1	4.3
24								2.7	3.3	3.8	4.0	4.2
25	2.8							2.6	3.2	3.6	4.0	4.1
26								2.7	3.2	3.8	4.0	4.1
27								..	3.3	3.7	4.0	4.4
28	1.8							G	3.5	3.8	4.1	4.4
29		1.4			1.4			2.9	3.4	4.0	4.4	4.4
30								G		4.0	4.3	4.6
31		1.5						2.9	3.5	3.8	4.2	4.2
Count	4	4	2	3	2	2	1	29	28	28	29	28
Median	.	..	..	..	..	.	..	G	3.2	3.6	4.0	4.0
Mean	.	..	..	..	..	..	..	2.6	3.2	3.7	4.0	4.1

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

Characteristic : fbEs  
 Unit : Mc  
 Month : March 1960

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

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

Characteristic : fbEs  
Unit : Mc  
Month : March 1960

TABLE 27 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130	
1								G	3.3	3.7	3.9	4.1	
2								3.0	3.3	3.6	4.0	4.1	
3			1.8					G	3.3	3.7	4.0	4.0	
4							G	2.9	3.4	3.7	4.0	4.1	
5					1.4	1.6	2.4	3.0	3.5	3.8	4.0	4.1	
6							G	2.9	3.5	3.7	4.0	4.1	
7							G	3.0	3.5	3.7	4.0	4.1	
8								3.0	3.4	3.7	4.0	4.0	
9							G	3.0	3.5	3.8	4.1	4.1	
10							G	2.9	3.4	3.6	4.0	4.0	
11		2.0	1.5	2.4	2.0		G	3.0	3.4	3.7	4.0	4.2	
12								2.9	3.4	3.7	4.0	4.0	
13							G	3.0	C	C	C	C	
14							G	3.0	3.4	3.8	4.0	4.2	
15							G	G	3.4	3.8	4.0	4.1	
16								G	G		4.0	4.1	
17	1.6							2.9	3.4	3.7	4.1	4.3	
18								3.0	3.4	4.0	4.3	4.3	
19								2.2	G	3.4	3.7	4.0	4.3
20			1.6					2.5	C	C	C	C	
21							G	G	3.5	3.8	4.0	4.1	
22							G	G	3.4	3.8	4.0	4.2	
23				1.7				3.0	3.6	3.8	4.3	4.0	
24								3.0	3.6	4.0	4.2	4.1	
25							G	3.0	3.4	3.8	4.1	4.1	
26							G	3.0	3.5	3.9	4.2	4.2	
27	1.6							3.1	3.5	4.0	4.0	4.4	
28								G	3.7	4.0	4.2	4.2	
29		1.5		1.2				3.2	3.7	4.2	4.4	4.4	
30							G	G	3.8	4.0	4.4	4.6	
31	1.8							3.1	3.8	4.0	4.2	4.2	
Count	3	2	3	3	2	1	18	30	29	28	29	29	
Median	..	.	..	..			G	3.0	3.4	3.8	4.0	4.1	
Mean	..	.		..	.	.	.	3.0	3.5	3.8	4.1	4.2	

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : fbEs  
 Unit : Mc  
 Month : March 1960

TABLE 27 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.1	4.0	3.8	3.6	3.1	2.3							1
4.1	4.0	3.9	3.4	3.0	2.2							2
4.0	4.1	3.8	3.4	3.0	2.2							3
4.1	3.9	3.7	3.4	2.9	2.2							4
4.0	4.0	3.8	3.4	3.0	2.3							5
4.2	4.0	3.7	3.4	4.4	2.5							6
4.2	3.9	3.9	3.4	C								7
4.1	4.0	3.8	3.5	3.0	2.3			C				8
4.2	3.9	3.7	3.4	3.0	2.2							9
4.0	3.9	3.7	G	3.0	2.3							10
4.0	4.2	3.9	3.4	3.0	2.2							11
4.0	4.0	3.8	3.4	3.0								12
C	C	3.8	3.4	3.0	2.3							13
4.2	4.0	3.8	3.4									14
4.2	4.0	4.0	3.4	3.0	2.3							15
4.0	3.9	3.8	3.4	3.0					1.4		1.5	16
4.2	4.2	3.8	3.3	3.0								17
4.4	4.3	3.8	3.4	3.0	2.2							18
4.1	4.0	3.8	3.4	3.0								19
C	4.0	3.8	3.4	3.0								20
4.2	4.0	3.7	3.6	3.0								21
4.1	4.2	3.8	3.4									22
4.4	4.2	4.0	3.5	3.0								23
4.2	4.0	4.0	3.4	3.0								24
4.2	3.9	5.9	5.2	3.4	2.2							25
4.0	5.0	G	G	3.0								26
4.2	4.2	4.0	4.4	3.2								27
4.4	4.2	4.0	3.5	3.1								28
B	B		3.8	3.1				1.5				29
	4.4	C	C							1.8	1.8	30
4.4	4.2	4.0	3.7	3.0	2.4							31
27	29	29	30	27	15	.		1	1	1	2	Count
4.2	4.0	3.8	3.4	3.0	2.3	.	.	..	..		..	Median
4.2	4.1	3.9	3.5	3.1	2.3	.	.	..	..	..	..	Mean

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



Characteristic : fmin  
Unit : Mc  
Month : March 1960

TABLE 28  
Ionospheric Data  
75 0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	1.8	1.9	1.3	1.6	1.7	1.3	2.1	1.9	1.9	2.5	2.5	2.5
2	1.8	1.4	1.3	E	E	1.2	1.6	1.5	1.8	2.1	2.3	2.5
3	1.4	1.5	1.2	1.3	1.2	1.2	1.6	1.6	2.1	2.4	2.5	2.5
4	1.6	1.3	1.2	1.4	1.5	1.3	1.7	1.6	1.9	2.3	2.5	2.8
5	1.1	E	1.1	1.2	1.2	1.1	1.5	1.6	1.9	2.3	2.4	2.7
6	1.7	1.3	1.5	1.4	1.2	1.7	1.6	1.6	1.9	2.3	2.3	C
7	1.3	1.2	1.2	1.0	1.1	1.6	1.9	2.1	2.0	2.3	2.3	2.7
8	1.6	1.3	1.5	1.7	2.2	2.4	2.1	1.9	1.8	2.3	2.4	2.6
9	1.3	1.5	1.3	1.4	1.2	1.2	1.3	1.6	2.0	2.7	2.4	2.7
10	1.3	1.3	1.5	1.4	1.3	1.3	1.7	1.6	2.0	2.2	2.4	2.6
11	1.2	1.2	1.3	1.4	1.3	1.8	1.7	1.5	1.7	2.2	2.4	2.5
12	1.5	1.4	1.3	1.2	1.5	1.6	1.8	1.6	1.9	2.4	2.4	2.8
13	1.6	1.7	1.6	1.5	1.5	1.6	1.7	1.5	2.0	C	C	C
14	1.3	1.5	1.5	1.2	1.4	1.5	1.6	1.7	2.0	2.4	2.6	2.8
15	1.1	1.0	1.1	1.3	1.2	1.2	1.8	1.8	2.0	2.5	2.6	2.8
16	1.6	1.0	1.3	1.1	1.4	1.4	1.6	1.5	2.0	3.6	3.0	2.8
17	1.2	1.0	1.1	1.5	1.1	1.2	1.9	1.7	1.8	2.3	2.6	2.7
18	1.3	1.7	1.3	1.3	1.3	1.5	1.7	1.6	1.9	2.4	3.1	3.4
19	1.3	1.2	1.3	1.4	1.5	1.4	1.9	1.9	2.1	2.6	2.5	3.0
20	1.4	1.1	1.0	E	1.4	1.2	1.8	1.9	C	C	C	C
21	1.5	1.4	1.3	1.1	1.4	1.4	1.3	1.8	2.2	2.4	2.7	2.6
22	1.5	1.5	1.4	1.4	1.4	1.6	2.0	1.6	2.2	2.3	2.6	2.7
23	1.6	1.4	1.3	1.2	1.7	1.5	2.2	1.8	2.1	2.5	2.6	2.8
24	1.4	1.3	1.1	1.4	1.6	1.5	2.0	1.9	2.2	2.5	2.6	3.0
25	1.0	1.1	1.4	1.0	1.2	1.3	1.8	1.7	2.0	2.4	2.4	3.0
26	1.2	1.2	1.2	1.2	ul 5c	1.3	2.0	1.6	2.2	2.4	2.5	2.6
27	1.3	1.3	1.3	1.2	1.4	1.4	2.0	2.3	2.2	2.3	2.6	3.4
28	1.4	1.3	1.2	1.4	1.5	1.7	2.2	1.9	2.4	2.8	2.8	3.2
29	1.4	1.1	1.1	1.2	1.3	1.5	2.2	2.4	2.6	3.0	3.8	3.4
30	1.4	1.3	1.4	1.6	1.4	1.7	2.0	2.2	2.7	3.2	3.6	3.8
31	2.1	1.3	1.4	1.5	1.4	1.3	1.9	1.9	2.6	2.8	2.9	2.8
Count	31	31	31	31	31	31	31	31	30	29	29	28
Median	1.4	1.3	1.3	1.3	1.4	1.4	1.8	1.7	2.0	2.4	2.5	2.8
Mean	1.4	1.3	1.3	1.3	1.4	1.4	1.8	1.8	2.1	2.5	2.6	2.8

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : fmin  
 Unit : Mc  
 Month : March 1960

TABLE 28 (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
2.7	2.7	2.7	2.4	2.1	1.7	1.7	u1.1s	1.4	1.4	1.3	1.7	1
2.7	2.6	2.5	2.7	2.2	1.9	1.9	1.2	1.6	1.3	1.6	1.3	2
2.7	2.5	2.4	2.4	1.9	2.0	1.6	1.3	1.4	1.3	1.4	1.4	3
2.6	2.7	2.4	2.2	1.9	1.6	1.6	1.2	E	1.2	1.3	1.2	4
2.7	2.7	2.5	2.7	2.4	2.2	1.8	1.1	1.2	1.3	1.4	1.3	5
2.6	2.7	2.6	2.4	2.0	1.7	1.6	1.1	1.3	1.3	1.3	1.2	6
2.8	2.7	2.5	2.2	1.9	2.0	1.7	1.3	1.4	1.5	1.8	1.4	7
2.6	2.5	2.6	2.2	1.9	2.0	1.7	1.4	1.5	C	1.3	1.4	8
2.7	2.6	2.5	2.3	2.0	1.6	1.6	1.3	1.3	1.3	1.5	1.2	9
2.6	2.7	2.3	2.3	2.0	1.7	2.0	1.4	1.5	1.4	1.6	1.7	10
2.6	2.6	2.6	2.4	2.4	2.0	1.8	1.4	1.5	1.5	1.4	1.2	11
2.7	2.6	2.4	2.6	2.2	2.3	1.9	1.5	1.5	1.6	1.7	1.4	12
C	C	2.4	2.4	2.0	1.9	1.7	1.5	1.5	1.6	1.5	1.7	13
3.0	3.0	2.6	2.6	2.2	2.4	1.9	1.5	1.5	1.0	1.5	1.5	14
2.8	2.7	2.6	2.6	2.3	2.0	1.7	1.4	1.6	1.5	1.6	1.7	15
3.4	3.0	2.6	2.6	2.2	2.1	1.8	1.7	1.6	1.6	1.2	1.1	16
2.8	2.7	2.6	2.5	2.1	2.0	1.7	1.4	1.6	1.6	2.0	1.6	17
3.6	3.3	3.0	2.5	2.1	2.2	1.7	1.3	1.5	1.5	1.6	1.4	18
2.8	2.9	2.6	2.6	2.3	2.2	1.7	1.6	1.6	1.4	1.6	1.4	19
C	3.0	2.8	2.5	2.3	1.9	1.7	1.3	1.5	1.6	1.4	1.3	20
2.8	3.0	2.8	2.6	2.5	u2.4s	1.8	1.6	1.5	1.5	1.6	1.6	21
2.8	2.8	2.6	2.6	2.5	2.4	1.8	u1.1s	1.5	1.6	1.6	1.8	22
2.7	2.7	2.6	2.6	2.4	2.2	1.8	1.4	S	1.4	1.4	1.4	23
2.8	2.9	2.6	2.3	2.2	2.3	2.0	1.4	1.4	1.4	1.4	1.3	24
2.9	3.0	2.6	2.5	2.1	1.9	1.7	1.2	1.5	1.6	1.4	1.3	25
2.5	2.7	2.7	2.4	2.1	2.2	1.8	1.3	1.4	1.5	1.5	1.1	26
3.0	4.2	3.6	2.6	2.2	2.2	1.8	1.5	1.5	1.4	1.4	1.3	27
3.2	3.2	2.8	2.6	2.4	2.4	1.8	1.3	1.3	1.7	1.3	1.4	28
6.6	6.6	5.0	4.2	2.6	2.2	1.8	1.2	1.3	1.2	1.5	1.5	29
3.6	3.6	3.0	C	2.6	2.4	1.7	1.3	1.3	1.4	E	1.1	30
3.2	3.0	3.0	2.5	2.0	1.6	2.0	1.7	2.2	1.8	1.7	1.5	31
2.9	3.0	3.1	3.0	3.1	3.1	3.1	3.1	3.0	3.0	3.1	3.1	Count
2.8	2.7	2.6	2.5	2.2	2.0	1.8	1.3	1.5	1.4	1.5	1.4	Median
3.0	3.0	2.7	2.5	2.2	2.0	1.8	1.4	1.5	1.4	1.5	1.4	Mean

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

Characteristic : fmin  
Unit : Mc  
Month : March 1960

TABLE 28 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1·7	1·6	1·4	1·2	1·1	1·4	2·3	2·1	2·3	2·3	2·5	2·5
2	1·6	1·3	E	1·2	1·3	1·4	2·1	1·6	2·0	2·1	2·5	2·6
3	1·3	1·6	1·6	1·3	1·2	1·3	2·1	2·1	2·3	2·4	2·4	2·7
4	1·2	1·3	1·4	1·2	1·3	1·3	1·6	1·8	2·2	2·4	2·6	2·7
5	1·2	1·3	1·1	1·2	E	1·1	1·9	1·9	2·2	2·4	2·5	2·7
6	1·3	1·3	1·3	1·3	1·3	1·3	1·7	1·7	2·2	2·3	2·4	2·6
7	1·2	1·2	1·1	1·3	1·1	2·0	1·8	1·7	2·2	2·3	2·6	2·7
8	1·5	1·4	1·3	1·8	2·2	2·3	2·4	1·6	2·2	2·3	2·4	2·5
9	1·3	1·2	1·4	1·1	1·2	1·2	1·6	1·7	2·2	2·5	2·5	2·6
10	1·5	1·3	1·3	1·5	1·6	1·3	1·5	1·8	2·1	2·3	2·4	2·6
11	1·5	1·1	1·2	1·4	1·6	1·6	1·7	1·5	1·8	2·2	2·4	2·6
12	1·3	1·5	1·5	1·4	1·5	1·4	2·4	1·7	2·2	2·3	2·4	2·7
13	1·5	1·4	1·4	1·3	1·4	1·4	1·7	1·7	C	C	C	C
14	1·5	1·3	1·4	1·3	1·5	1·5	1·7	1·8	2·2	2·4	2·6	2·7
15	1·2	1·3	1·1	1·1	1·1	1·4	1·7	1·7	2·4	2·4	2·6	3·0
16	1·3	1·0	1·2	1·2	1·6	1·3	2·2	1·6	2·5	3·0	3·0	3·0
17	1·1	1·1	1·1	1·1	1·2	1·1	2·2	1·8	2·1	2·4	2·7	2·8
18	1·6	1·2	1·4	1·4	1·4	1·4	1·7	1·7	2·2	3·0	3·2	3·3
19	1·4	1·4	1·4	1·3	1·4	1·3	1·8	2·0	2·4	2·6	2·8	3·0
20	1·3	1·1	E	1·2	1·4	1·2	1·7	C	C	C	C	C
21	1·5	1·4	1·4	1·3	1·5	1·3	1·8	2·0	2·3	2·4	2·7	2·8
22	1·5	1·6	1·7	U1·4C	1·5	1·5	1·8	2·2	2·4	2·4	2·6	3·0
23	1·5	1·4	1·5	1·3	1·4	1·5	2·6	1·9	2·3	2·6	2·6	2·7
24	1·4	1·1	1·4	1·2	1·4	1·8	2·4	2·2	2·5	2·7	2·8	3·0
25	1·3	1·3	1·5	1·2	1·4	1·3	1·7	1·8	2·2	2·4	2·7	2·9
26	1·1	1·1	1·1	1·3	1·5	1·5	1·9	1·8	2·2	2·6	2·6	2·8
27	1·1	1·5	1·4	1·5	1·4	1·6	2·3	2·1	2·2	2·6	2·7	3·2
28	1·4	1·3	1·9	1·2	1·5	1·5	2·8	2·2	2·4	3·0	3·0	3·0
29	1·1	E	E	E	1·6	1·6	2·8	2·4	2·7	2·8	3·2	3·6
30	1·4	1·4	1·5	1·3	1·6	1·5	2·0	2·6	3·0	3·2	3·6	3·8
31	1·6	1·6	1·2	1·6	1·4	1·5	2·6	2·2	2·4	2·8	2·7	3·0
Count	31	31	31	31	31	31	31	30	29	29	29	29
Median	1·4	1·3	1·4	1·3	1·4	1·4	1·9	1·8	2·2	2·4	2·6	2·8
Mean	1·4	1·3	1·4	1·3	1·4	1·4	2·0	1·9	2·3	2·5	2·7	2·9

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

Characteristic : fmin  
Unit : Mc  
Month : March 1960

TABLE 28 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

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

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

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

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

TABLE 29  
 Ionospheric Data  
 75 0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L <sup>H</sup>	L <sup>H</sup>	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	C
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	C	L	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	C	C	C	C
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Count								..	.	..	..	.
Median								..	..	.	.	..
Mean								.	..	..	.	.

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

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

TABLE 29 (Contd.)  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	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	E	L	L	L							5
												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
												11
L	L	L	L	L	L				L			12
L	L	L	L	L	L				L			13
C	C	L	L	L	L				L			14
L	L	L	L	L	L				L			15
												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
C	L	L	L	L	L				L			20
												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
												26
L	L	L	L	L	L				L			27
L	L	L	L	L	L				L			28
B	B	L	L	L	L				L			29
L	L	L	C	L	L				L			30
												31
												Count
												Median
												Mean

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

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

TABLE 29 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								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	L	L	L
8							L	L	L	L	L	L
9							L	L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	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	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25							L	L	L	L	L	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	L
31								L	L	L	L	L
Count								..		.	.	
Median								.	.		.	
Mean								..	..	..	..	..

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

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

TABLE 29 (Contd)  
 Ionospheric Data  
 75 0°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L	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	C							7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
C	C	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	L							18
L	L	L	L	L								19
C	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
B	B	L	L	L								29
L	L	C	C	L								30
L	L	L	L	L								31
..	..	..	.	.								Count
.	.	.	.	.	.							Median
..	.	..	..		..							Mean

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



Characteristic : h'F  
Unit : Km  
Month : March 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	230	220	235	250	F	F	300	250	220	215	210	200
2	220	235	255	300	360	280	240	240	230	205 <sub>H</sub>	200	195
3	225	225	240	250	250	235	240	240	235	220	210	200
4	220	220	235	235	235	240	265	250	225	220	210	195
5	245	240	225	230	230	255	280	260	240	220	215	215
6	230	220	215	235	245	225	250	250	230	220	210 <sub>H</sub>	C
7	215	220	U230 <sub>F</sub>	260	245	240	255	240	220	220	205	200
8	225 <sub>F</sub>	215	220	240	U240 <sub>F</sub>	U250 <sub>F</sub>	260	240	220	215	210 <sub>H</sub>	200 <sub>H</sub>
9	235 <sub>F</sub>	225	U225 <sub>F</sub>	225	260	270	300	245	230	230	210	200 <sub>H</sub>
10	U225 <sub>F</sub>	230	225	235	225	240	255	240	235	215	205	200
11	220	240	260	260	240	220	240	240	230	220	200	195
12	240	230	230	240	220	220	270	240	220	200	200	195 <sub>H</sub>
13	220	220	205	220	220	225	260	240	220	C	C	C
14	220	230	220	220	230	220	260	240	230	215	205	200
15	220	235	240	220	220	220	250	240	220	215	200 <sub>H</sub>	200 <sub>H</sub>
16	235	240	260	275	240	205	245	235	230	220	215	210
17	240	245	260	275	260	225	C	230 <sub>H</sub>	220	205	200	195 <sub>H</sub>
18	225	215	225	225	230	215	240	235	210	205	210	200
19	235	235	215	215	215	220	245	235	215	210	200	190 <sub>H</sub>
20	235	235	235	235	220	220	240	235	C	C	C	C
21	240	240	240	235	225	235	260	240	230	210	200 <sub>H</sub>	200
22	225	220	220	225	235	225	260	245	230	215 <sub>H</sub>	200 <sub>H</sub>	200
23	240	230	230	220	220	220	265	235	225 <sub>H</sub>	215 <sub>H</sub>	200 <sub>H</sub>	205 <sub>H</sub>
24	240	240	220	220	220	220	260	240	220	U215 <sub>A</sub>	205	205
25	270	275	300	280	240	205	245	240	210	215	200	200 <sub>H</sub>
26	230	225	220	220	U220 <sub>C</sub>	220	265	240 <sub>H</sub>	225	210	205	200 <sub>H</sub>
27	270	260	240	230	220	225	260	245	225	205 <sub>H</sub>	200	200
28	240	240	240	230	220	230	255	240	220	210	210	205
29	240	260	260	260	240	210	260	240	235	220	220	215
30	240	240	230	225	230	210	240	235	230	225	205	220
31	260	310	300	240	270	250	260	255	240	220	220	220
Count	31	31	31	31	30	30	30	31	30	29	29	28
Median	235	235	230	235	230	225	260	240	225	215	205	200
Mean	235	235	235	240	240	230	260	240	225	215	205	200

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

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

TABLE 30 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10 ·2N  
 Longitude : 77 5E

12	13	14	15	16	17	18	19	20	21	22	23	Date
200	195	195	200H	225	255	285	370	360	265	245	230	1
195	200	200	215	235	255	285	365	305	240	220	220	2
200	190	190	220	230	240	280	370	350	270	230	220	3
200	190	210	215	220	245	280	385	F	F	U300F	U225F	4
210	200	205	205	210H	260	300	F	F	280	240	230	5
200H	200H	200H	200H	230	255	290	415	U345F	U360F	255	220	6
200H	200H	200H	200	230	250	280	U410F	F	F	F	255	7
200	195	190H	200H	225	245	290	U440F	U440F	C	U275F	U240F	8
200	200	210	200H	220	245	280	370	U360F	U380F	U310F	U245F	9
195	190H	195	200	230	250F	285	U400F	F	F	U280F	U240F	10
200	200	200	200	220	240	280	320	280	240	235	240	11
200	200	210	200	210	250	280	380	410F	310F	280	220	12
C	C	200	200	240	260	280	380	440F	380F	280F	235	13
200H	200H	200H	220	220	250	280	400	U440F	U320F	U245F	230	14
200H	205	200	200	235	250	280	400	U440F	U310F	240	220	15
205	205	210	220	235	250	260	255	250	260	255	U260A	16
195	185H	200	205	225	245	280	380	U345F	290	300	235	17
205	200	195	195H	210H	245	280	370	F	U280F	275	250	18
205	200	200	200	210H	245	280	400	U400F	320	255	220	19
C	200	205	210	230	250	280	420	420	380	265	240	20
205	200H	195H	215	230	250	295	U480F	F	275	250	235	21
200	200	210	215	235	255	290	U400F	F	F	240	240	22
195	200H	200	215	215H	245	280	385	F	F	280	235	23
200	195H	210	220	225	250	290	420	U450F	F	U330F	275	24
205	205	U200A	A	U240A	250	285	F	F	U320F	280	240	25
210	205	215	215	230	260	295	U435F	F	F	F	260	26
200	210	220	U240A	A	260	300	420	350F	260	290F	240	27
200	200	210	220	230	255	300	460F	420F	330F	260	260	28
B	B	B	240	240	260	295	400F	420F	400F	280F	280F	29
210	210	200	C	240	260	300	440F	460F	320F	260	280	30
220	215	220	A	240	260	280	260	230	220	220	360	31
28	29	30	28	30	31	31	29	21	23	29	31	Count
200	200	200	210	230	250	280	400	400	310	260	240	Median
200	200	205	210	225	250	285	390	375	305	265	245	Mean

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

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

TABLE 30 (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	230	225	225	275	F	U355F	260	240	210	215	200	200
2	230	240	275	325	340	240	240	240	220	205H	200	200
3	235	230	240	260	260	225	260	240	230	215	205	200
4	220	225	225	250	230	240	260	235	220	210	205	195
5	245	220	230	225	245	255	270	250	230	215	205	215
6	220	220	225	240	225	220	260	245	230	215	205H	200H
7	220	220	245	255	245	235	255	230	220	215	205	200H
8	U220F	215	U230F	235	245	U240F	255	230	220	215H	200H	195H
9	U230F	U220F	U230F	245	260	285	255	240	225	220	205	200
10	225	225	235	235	225	235	260	235	225	205	205	200H
11	240	250	255	240	240	220	260	230	220	210	200	210
12	240	240	240	230	220	220	255	220	210	200	200	195H
13	220	205	220	210	220	230	250	230	C	C	C	C
14	230	230	220	225	235	230	260	230	220	210	200	205
15	230	230	220	220	220	220	250	230	220	220	200H	200H
16	240	260	245	265	200	210	240	230	225	220	210H	205
17	240	250	270	255	250	210	240	220H	210	200	200	200
18	220	220	240	230	225	205	245	225	205	210	200	200
19	235	220	225	215	215	220	235	225	210	200H	195H	200
20	240	235	235	230	220	220	245	C	C	C	C	C
21	240	235	235	230	225	235	250	235	220	205H	210	200
22	220	220	215	235	225	220	255	235	215H	210H	200H	200H
23	230	230	225	225	210	230	250	225H	215H	205H	195H	195H
24	235	230	220	220	220	225	245	230	220H	210	205	200H
25	275	275	300	260	220	205	250	225	U200A	U200A	200H	200H
26	230	215	220	220	225	235	250	235	215	205	200	200
27	265	240	235	230	225	235	255	240	215	205	200	200
28	240	230	235	230	220	240	250	225H	220	210	210	200
29	250	245	260	220	220	250	245	230	220	220	210	B
30	240	240	225	220	210	220	240	230	225	210	220	205
31	280	320	280	240	260	245	260	245	240	230	220	210
Count	31	31	31	31	31	31	31	30	29	29	29	28
Median	235	230	235	230	225	230	250	230	220	210	200	200
Mean	235	235	240	240	235	235	250	235	220	210	205	200

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

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

TABLE 30 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10.2° N  
 Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
195	190	200	200H	250	265	320	370	305	240	230	220	1
195	200	200	230	240	255	320	340	260	220	220	220	2
195	200	210	225	235	260	320	365	305	240	225	220	3
195	200	210	220	225	260	320	F	F	F	U260F	240	4
215	210	215	210	235	275	340	F	325	255	240	230	5
200H	200H	200	205	A	270	270H	U405F	U320F	U280F	240	U215F	6
200H	195H	200	210	C	265	330	F	F	F	U260F	U240F	7
200	190H	200	200H	23	265	355	F	C	U270F	U270F	U240F	8
200	195H	200H	205	230	265	350	U350F	U380F	F	U280F	U225F	9
195H	195	195H	215H	240	265F	345	U400F	F	U320F	U270F	220	10
200	215	210	220	240	260	305	310	260	220	220	240	11
200	200	205	200H	240	260	340	U400F	395F	U260F	250	220	12
C	C	200	220	240	260	340	380F	420F	310F	U240F	220	13
200H	200H	200	220	240	260	340	F	U360F	300	240	220	14
200H	200	200	220	240	260	340	U400F	U360F	300	240	230	15
215	205	215	230	240	260	260	250	255	250	250	245	16
200	200H	210	210	240	255	320	400	315	310	270	235	17
205	200	190H	190H	240	255	315	F	U400F	280	275	235	18
200	195H	200	205	235	260	325	U420F	U345F	300	240	225	19
C	200	205	220	240	265	345	F	420	340	250	235	20
200	200H	220	215	240	275	365	F	F	260	240	230	21
210	200	215	220H	245	270	355	F	F	U280F	230	245	22
200	200	215	225	240	265	335	F	F	F	240	230	23
200H	195H	U210A	215	240	265	345	F	U420F	U380F	265	265	24
200H	200H	A	A	U245A	265	330	F	F	285	255	230	25
195H	A	210	230	245	275	360	U445F	F	F	U285F	265	26
200	220	220	A	240	275	360	F	F	270F	265	235	27
200	200	205	220	240	270	380	500F	440F	280	280	240	28
B	B	245	240	250	280	345	420F	420F	320F	260F	260	29
220	200	C	C	240	280	370	500F	420F	260F	280	260	30
220	220	230	240	260	280	280	250	225	210	270	370	31
28	28	29	28	29	31	31	18	21	26	31	31	Count
200	200	205	220	240	265	340	400	360	280	250	235	Median
200	200	210	215	240	265	335	385	350	280	255	240	Mean

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

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

TABLE 31  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10.2 N  
 Longitude : 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								120	A	A	A	A
2								105 <sup>H</sup>	100	A	A	A
3								115	105	A	A	A
4								115	100	A	A	A
5								A	A	A	A	A
6								110	A	A	A	C
7								120	A	A	A	A
8								120	105	A	A	A
9								110	A	A	A	A
10								115	A	A	A	A
11								110	A	A	A	A
12								110	A	A	A	A
13								110	A	C	C	C
14								120	A	A	A	A
15								120	110	110	A	A
16								105	105	B	110	A
17								110	A	A	A	A
18								105	A	A	A	A
19								115	110	105	A	A
20								115	C	C	A	C
21								120	120	105	A	A
22								115	110	A	A	A
23								115	110	A	A	A
24								120	A	A	A	A
25								A	A	A	A	A
26								110	A	A	A	A
27								125	A	A	A	A
28								150	A	A	A	A
29								120	A	A	B	A
30								120	115	A	A	A
31								F	A	110	A	A
Count								28	11	4	1	.
Median								115	110			.
Mean								115	110	.		.

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

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

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

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

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

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

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

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

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

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



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

TABLE 32  
 Ionospheric Data  
 75 0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	100							G	100	100	100	100
2					110			G	100	100	100	100
3			110					G	100	100	100	100
4								G	100	100	100	100
5						120		120	100	100	100	100
6								105	100	100	100	C
7						100		G	100	100	100	100
8				105	110			G	100	100	100	100
9						100	G	100	100	100	100	100
10								G	100	100	100	100
11		100	110	110	100			100	100	100	100	100
12								100	100	100	100	100
13								100	100	C	C	C
14								105	100	100	100	100
15								G	100	100	100	100
16								G	G	120	95	100
17	105	110						G	100	100	100	100
18								G	100	100	100	100
19								G	125	100	100	100
20			105	100				G	C	C	C	C
21								105	100	100	100	100
22								G	100	100	100	100
23								G	100	100	100	100
24								100	100	100	100	100
25	110		115					100	100	100	100	100
26								100	100	100	001	100
27	130							100	100	100	100	100
28	105		100					G	100	100	100	100
29		105			100			100	100	100	100	100
30								G	120	100	100	95
31		120						100	100	100	100	100
Count	5	4	5	3	4	3	.	14	29	29	29	23
Median	105	..	110	.	.	.	.	100	100	100	100	100
Mean	110	..	110	.	.	.	.	100	100	100	100	100

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

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

TABLE 32 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	100					120		1
100	100	100	100	100	100							2
100	100	100	100	100	100							3
100	100	100	100	100	100	95						4
100	100	100	100	100	100							5
100	100	100	100	100	100							6
100	100	100	100	100	100							7
100	100	100	100	100	105				C			8
100	100	100	100	100	105							9
100	100	100	100	100	100							10
100	100	100	100	100	100							11
100	100	100	100	100	105							12
C	C	100	100	100	100							13
100	100	100	100	100	100				120			14
100	100	100	100	100	100							15
G	100	100	100	100	105				120	105	105	16
100	100	100	100	100	100							17
100	100	100	100	100	100							18
100	100	100	100	100	100							19
C	100	100	100	100	105							20
100	100	100	100	100	100							21
100	100	100	100	100	120							22
100	100	100	100	100	100							23
100	100	100	100	100	100							24
100	100	100	100	100	100							25
100	100	105	G	G	100							26
100	100	100	100	100	100						105	27
100	100	100	100	100	100							28
B	B	100	100	100	100				110		110	29
100	100	100	C	100	115					120	115	30
100	100	100	100	100	100					120		31
27	29	31	29	30	31	1	.	.	3	4	4	Count
100	100	100	100	100	100	.	.	..	.	.	.	Median
100	100	100	100	100	100	.	.	.	.	.	..	Mean

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

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

TABLE 32 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								G	100	100	100	100
2					110			140	100	100	100	100
3			110					G	100	100	100	100
4							G	100	100	100	100	100
5					120	115	120	100	100	100	100	100
6							G	100	100	100	100	100
7							G	100	100	100	100	100
8					110			100	100	100	100	100
9							G	100	100	100	100	100
10							G	100	100	100	100	100
11	100	100	105	100	100		G	100	100	100	100	100
12								100	100	100	100	100
13							G	100	C	C	C	C
14							G	100	100	100	100	100
15							G	G	100	100	100	100
16								G	G	95	100	100
17	105							100	100	100	100	100
18							135	100	100	100	100	100
19							125	G	100	100	100	100
20			100	105			130	C	C	C	C	C
21							G	G	100	100	100	100
22							G	G	100	100	100	100
23				105				100	100	100	100	100
24								100	100	100	100	100
25	110						G	100	100	100	100	100
26							G	100	100	100	100	100
27	120							100	100	100	100	100
28								G	100	100	100	100
29		105		100				100	100	100	100	95
30							G	G	100	100	100	95
31	120	120						100	100	100	100	100
Count	5	3	3	4	4	1	4	21	28	29	29	29
Median	110	.	.	.	.	.	.	100	100	100	100	100
Mean	110	.	.	.	.	.	.	100	100	100	100	100

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

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

TABLE 32 (Contd.)  
 Ionospheric Data  
 75.0 E Mean Time

Latitude : 10.2' N  
 Longitude : 77.5°E

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

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

Characteristic : (ε) (M 3000) F2

TABLE 33

Latitude : 10 2' N.

Unit : . .

Ionospheric Data

Longitude : 77·5°E.

Month : March 1960

75 0°E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	3 10	F	3 05	3 30	F	u2 70F	2 70H	3 05	2 95	2 50	2 30	2 40
2	3 05	3 00	3 00	2 80	2 60	2 80	3 10	3 15	3 10	2 80	2 35H	u2 35W
3	3 10	3 20	u3 35s	3 00	3 10	3 00	3 25	3 10	2 90	2 65	2 45	2 30
4	3 05	3 20	3 15	u3 20s	3 25	3 15	3 00	3 00	2 75	2 45	2 40	2 30
5	Fs	Fs	Fs	F	3 20	F	2 95	2 85	2 65	2 35	2 30	2 30
6	3 05	3 10	3 20	u3 05F	3 05	3 25	3 05	2 90	2 40	2 45	2 50	C
7	3 10	3 10	F	u2 95s	u3 05F	3 10	3 10	3 05	2 85	2 45	2 20	2 35
8	F	u3 10F	3 20F	3 20	u3 25F	F	u3 10F	3 10	2 80	2 40	2 35	2 35
9	F	u3 10F	3 10F	3 15	3 00	3 00	2 75	2 95	2 65	2 50	2 45	2 25
10	u3 10F	2 95	3 05	3 10	3 10	3 15	3 15	3 00	2 70	2 40	2 45	2 35
11	F	3 05	F	F	3 20	3 30	3 05	2 80	2 60	2 50	2 30	2 50
12	3 05	3 10	3 10	3 20	3 40	3 55	3 00	2 95	2 60	2 45	2 45	2 40
13	F	F	3 30F	F	F	u3 30F	u3 10s	3 10	2 70	C	C	C
14	F	F	3 25	F	u3 20s	3 35	F	u3 00Fs	u2 70R	2 35	2 40	2 50
15	u3 05s	F	F	3 30	3 30	u3 40s	3 25	u3 25s	u3 00s	2 65	2 35R	2 35
16	3 10	3 05	2 90	2 80	F	3 50	3 15	u3 35s	3 15	3 00	2 85	2 60
17	2 90	2 95	2 90	2 90	2 70	3 10	3 30	3 30	3 00	2 70	2 40	2 20
18	F	3 15	3 10	3 10	u2 95F	u3 25F	3 20	3 20	2 85	2 35	2 55	2 35
19	u3 10F	3 10	u3 30F	F	F	F	F	3 25	3 10	2 80	2 40	2 10
20	3 10	F	u3 15s	3 05	u3 10F	3 20	3 20	3 05	C	C	C	C
21	3 10	3 20	u3 30F	3 20	u3 30s	3 50	3 15	3 25	2 95	2 60	2 25	2 30
22	3 15	3 25	3 40	3 25	3 15	3 40	3 20	3 15	3 00	2 60	2 35	2 40
23	F	u3 00s	3 10	3 30	3 35	3 40	3 15	3 15	2 90	2 55	2 25	2 45
24	2 90	F	F	3 40	u3 40F	3 40	3 10	u3 10s	2 60	2 30	2 50	2 35
25	F	F	2 90	F	F	F	3 30	2 85	RH	2 50	2 40	2 40
26	F	u3 30F	F	F	3 40	3 50	3 10	3 05	2 65	2 35	2 35	2 40
27	F	F	3 20	u3 20F	u3 35F	u3 50sF	3 05	3 15	2 80	2 20	2 40	2 45
28	F	3 20	F	F	F	3 50	3 15	3 15	u2 95s	2 55	2 15H	2 35
29	Fs	u3 10Fs	Fs	u3 10rs	F	F	3 10F	3 10	2 80	2 40	2 30	2 35
30	F	F	F	F	F	F	3 30	u3 20s	3 10	2 80	2 20I	2 40
31	F	F	F	3 10i	3 00	3 05	u2 95s	2 90	2 60	2 25	2 20	2 40
Count	16	20	21	22	23	25	29	31	29	29	29	28
Median	3 10	3 10	3 15	3 10	3 20	3 30	3 10	3 10	2 80	2 50	2 35	2 35
Mean	3 05	3 10	3 15	3 10	3 15	3 25	3 10	3 10	2 80	2 50	2 35	2 35

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

Characteristic : (S) (M3000) F2  
 Unit : ...  
 Month : March, 1960

TABLE 33 (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
2 30	2 25	2 30	2 30	2 35	2 30	2 25	2 20	2 25	2 55	2 80	3 00	1
2 30	2 30	2 15	2 30	2 35	2 30	2 30	2 10	2 30	2 70	3 00	3 05	2
2 25	2 25	2 35	2 35	2 40	2 40	2 30	2 05	2 05	U2 25r	U2 80s	2 90	3
2 30	2 35	2 35	2 25	2 30	2 30	2 20	U2 10R	F	F	F	F	4
2 25	2 35	2 40	2 45	2 40	2 30	2 20	F	U2 10F	F	2 65	2 75	5
2 35	2 30	2 30	2 30	2 35	2 35	2 25	2 00	2 15	F	2 75	F	6
2 35	2 30	2 30	2 30	2 30	2 25	2 25	2 10	F	F	F	F	7
2 45	2 40	2 30	2 25	2 20	2 30	2 20	1 95	F	C	F	F	8
2 30	2 30	2 20	2 20	2 25	2 30	U2 25s	2 15	U2 30F	F	F	F	9
2 35	2 30	2 30	2 30	2 45	2 50	2 30	U2 05r	F	F	F	F	10
2 40	2 35	2 45	2 50	2 45	2 40	2 20	U2 20R	U2 20RS	U2 50s	2 75	2 95	11
2 45	2 40	2 40	2 45	2 40	2 35	U2 20R	U2 05F	F	F	F	Fs	12
C	C	2 40	2 40	2 40	2 40	2 35	U2 10s	F	F	F	F	13
2 40	2 45	2 30	2 35	2 45	U2 55s	2 40	U2 15s	F	F	F	F	14
2 30	2 30	2 35	2 30	2 40	2 40	2 40	U2 30s	F	F	F	F	15
2 55	2 45	2 30	2 10	2 15	2 35	2 45	2 60	2 70	2 70	2 75	2 75	16
2 35	2 35	2 35	2 35	2 35	2 40	2 30	2 10	2 25	F	F	Fs	17
2 45	2 35	2 35	2 35	2 30	2 30	2 15	2 10	F	F	F	F	18
2 35	2 35	2 30	2 30	2 35	2 40	2 35	2 15	U2 00r	2 30	U2 70F	F	19
C	2 30	2 35	2 40	2 35	2 30	2 15	2 00	F	F	F	F	20
2 40	2 40	2 40	2 50	2 50	2 35	U2 10s	F	F	U2 45s	2 50	F	21
2 40	2 40	2 40	2 45	2 35	2 25	U2 05R	2 00	F	F	F	U2 80F	22
2 50	2 45	2 45	2 45	2 40	2 35	2 15	U1 85W	F	F	F	F	23
2 40	2 30	2 30	2 40	2 40	U2 30R	U2 20s	U2 00rs	F	F	F	F	24
2 40	2 30	2 30	2 40	2 50	2 50	2 35	U2 10rs	F	F	F	F	25
2 35	2 40	2 50	2 55	2 60	2 60	U2 45s	F	F	F	F	F	26
2 30	2 30	2 30	2 35	2 40	2 45	2 40	2 10r	F	F	F	U3 00s	27
2 35	2 30	2 35	2 40	2 35	2 40R	2 20	1 90	F	F	F	F	28
2 30	2 30	2 35	2 40	2 35	2 30	U2 20s	2 00	F	F	F	F	29
2 35	2 35	2 30	C	2 40	2 50	2 40	U2 05r	F	F	F	F	30
2 35	2 30	2 30	2 35	2 30	2 20s	2 10	2 55	2 90	3 00	3 05	2 50s	31
29	30	31	30	31	31	31	28	11	8	10	9	Count
2 35	2 30	2 35	2 35	2 35	2 35	2 25	2 10	2 25	U2 50	2 75	2 90	Median
2 35	2 35	2 35	2 35	2 35	2 35	2 25	2 10	2 30	U2 55	2 80	2 85	Mean

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

Characteristic : ( $\epsilon$ ) (M 3000) F2

TABLE 33 (Contd.)

Latitude : 10°2'N

Unit : .

Ionospheric Data

Longitude : 77°5'E

Month : March 1960.

75 0°E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	3.00	3.25	F	U2.80F	U2.65F	3.05	3.00	2.70	2.30	2.25	2.30
2	3.00	3.05	2.90	2.75	2.70	3.00	3.15	3.10	2.95	2.60	2.10	2.30
3	3.10	3.25	3.15	3.05	2.95	3.10	3.15	3.05	2.85	2.55	2.40	2.30
4	3.15	U3.25s	3.15	3.05	3.20	3.20	U3.10s	2.90	2.55	2.30	2.50	2.20
5	Fs	Fs	U3.00s	3.15	3.10	U3.10s	2.95	2.75	2.55	2.30	2.30	2.30
6	3.10	3.10	3.10	3.05	3.10	3.35	3.00	2.70	2.55	2.30	2.35	2.40
7	3.10	U3.10s	U2.95F	U3.00i	3.00	U3.15s	3.05	3.00	2.65	2.30	2.35	2.35
8	F	U3.30r	3.10	3.15	F	F	3.10	2.95	2.60	2.30	2.30	2.40
9	F	U3.05F	F	3.05	3.00	2.85	2.55H	2.85	2.55	2.50	2.35	2.25
10	3.05	3.00	3.10	3.10	3.20	3.25	3.05	2.85	2.50	2.40	2.40	2.30
11	F	U3.05s	F	3.20	3.25	3.25	3.05	2.65	2.60	2.40	2.50	2.45
12	3.10	3.15	3.10	3.20	3.40	3.60	3.10	2.80	2.50	2.50	2.50	2.40
13	F	F	F	F	J3.25F	C	U3.20s	2.90	C	C	C	C
14	F	J3.40F	F	U3.20F	J3.30s	U3.30F	U3.20F	U2.90Fs	2.45	2.45	2.40	2.40
15	U3.10s	U3.15s	F	U3.30s	3.30	U3.25s	3.25	3.20	2.85	2.40	2.30	2.30
16	3.05	2.90	2.95	2.90	F	3.50	3.35	3.30	3.05	2.95	2.75	2.60
17	2.95	2.90	2.85	2.85	2.90	3.35	3.30	3.15	2.90	2.60	2.25	2.30
18	3.15	U3.05s	3.05	3.05	U3.05r	3.45	3.20	3.00	2.60	2.25	2.40	2.60
19	3.10	3.15	F	F	F	F	3.25	3.20	3.00	2.60	2.10	2.30
20	3.10	F	3.10	3.05	3.15	3.25	3.15	C	C	C	C	C
21	3.10	F	F	3.30	3.35	F	3.20	3.10	2.80	2.45	2.25	2.35
22	3.20	3.25	3.30	3.20	3.40	3.50	3.20	3.10	2.80	2.35	2.45	2.35
23	U3.05F	F	3.40	F	3.40	2.30H	3.30	3.05	2.70	2.25	2.45	2.50
24	F	F	3.40	F	3.35	3.30	3.10	2.95	2.40	2.35	2.40	2.35
25	F	U3.00F	F	3.10	3.30	U3.20Fs	3.20	2.40	2.50	2.50	2.40	2.40
26	F	3.30	F	3.25	3.50	3.45	3.15	2.85	2.40	2.30	2.35	2.40
27	F	F	F	U3.20F	U3.20F	U3.30F	3.10	3.00	2.60	2.40	2.35	2.50
28	F	F	F	3.20F	3.45	2.50H	3.25	3.05	2.70	2.30	2.30	2.35
29	F	Fs	F	F	F	3.40F	3.10	3.00	2.65	2.10H	2.40	2.30
30	3.10	3.20	F	F	F	F	3.30	3.20	2.95	2.50	2.10H	2.35
31	F	F	F	3.00	3.00	3.05	2.95	2.80	2.45	2.15	2.25	2.30
Count	17	21	17	25	26	26	31	30	29	29	29	29
Median	3.10	3.10	3.10	3.10	3.20	3.25	3.15	3.00	2.60	2.40	2.35	2.35
Mean	3.10	3.10	3.10	3.10	3.20	3.20	3.15	2.95	2.65	2.40	2.35	2.35

Sweep 1 0 Mc to 25.0 Mc in 27 seconds.

Characteristic : (S) (M3000) F2  
 Unit  
 Month : March, 1960

TABLE 33 (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
2.20	2.25	2.30	2.35	2.35	2.25	2.20	U2.25s	2.35	2.65	2.95	3.15	1
2.30	2.20	2.20	2.35	2.35	2.30	2.10	2.15	2.40	2.80	3.00	3.10	2
2.20	2.30	2.35	2.40	2.40	2.30	2.15	2.05	2.10	2.45	U2.80r	3.00	3
2.30	2.35	2.30	2.30	U2.35s	2.25	U2.30s	U2.00F	F	F	F	Fs	4
2.30	2.40	2.45	2.45	2.40	2.30	2.00	F	2.25	U2.50F	2.80	3.05	5
2.35	2.30	2.25	2.30	2.30	2.35	2.15	F	2.30	U2.80F	F	F	6
2.30	2.30	2.30	2.30	C	2.25	U2.25s	U2.00r	F	F	F	F	7
2.45	2.30	2.30	2.20	2.30	2.25	2.10	F	C	U2.70r	F	F	8
2.30	2.30	2.20	2.30	2.25	2.20	2.10	2.25	U2.50t	F	F	F	9
2.35	2.30	2.30	2.45	2.50	2.45	2.25	F	F	F	F	F	10
2.40	2.40	2.45	2.50	2.40	U2.35R	J2.15R	U2.20sF	U2.30s	2.70	2.90	3.00	11
2.40	2.45	2.40	2.50	2.40	2.30	U2.20s	F	F	F	F	F	12
C	C	2.35	2.40	2.40	2.40	2.40	U2.20s	2.10	F	F	2.90	13
2.40	2.40	2.35	2.40	2.50	U2.50s	2.25	F	F	F	F	F	14
2.30	2.30	2.35	2.30	2.40	U2.45s	2.25	F	F	F	F	3.10	15
2.50	2.35	2.20	U2.10R	2.25	2.40	2.50	2.65	2.70	2.70	2.75	2.85	16
2.35	2.30	2.35	2.35	2.35	2.35	2.20	U2.00F	C	F	F	2.90	17
2.40	2.30	2.40	2.30	2.30	U2.25s	2.10	F	F	F	F	F	18
2.35	2.35	2.30	2.30	2.35	2.40	2.25	2.15	2.25	F	U2.85F	F	19
C	2.30	2.40	2.35	2.35	2.20	2.00	F	F	F	F	Fs	20
2.35	2.35	2.45	2.50	2.45	2.25	U2.05W	U1.95F	U2.35s	2.50	2.80	U3.00s	21
2.40	2.40	2.40	2.45	2.30	2.10	U1.95RW	F	F	F	F	F	22
2.40	2.45	2.45	2.45	2.40	2.35	U2.10s	F	F	F	F	Fs	23
2.30	2.35	2.40	2.45	2.30	2.30	2.05s	F	F	F	F	F	24
2.35	2.30	2.25	2.50	2.50	2.45	J2.25s	F	F	F	F	F	25
2.40	2.45	2.55	2.60	2.60	U2.55s	2.25	F	F	F	F	F	26
2.30	2.30	2.30	2.40	2.40	2.50	2.25	F	F	F	F	F	27
2.40	2.30	2.30	2.40	2.35R	2.40R	2.10s	F	F	F	F	F	28
2.45	2.30	2.35	2.40	2.35	2.20	U2.05s	F	F	F	F	F	29
2.35	2.35	C	C	2.50	2.50	2.25	F	F	F	F	F	30
2.30	2.30	2.35	2.40	2.25	2.10	2.30	2.80	3.00	3.20	2.70s	2.30	31
29	30	30	30	30	31	31	13	11	10	9	11	Count
2.35	2.30	2.35	2.40	2.35	2.30	2.20	2.15	2.35	2.70	2.80	3.00	Median
2.35	2.35	2.35	2.40	2.40	2.30	2.15	2.20	2.40	2.70	2.85	2.95	Mean

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



Characteristic : foF2  
 Unit : Mc  
 Month : April 1960

TABLE 34  
 Ionospheric Data  
 75 0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	7·0	5·5	4·3	4·1	E	E	5·5	11·0	11·2	9·3	13·6	U10·4R
2	C	C	C	C	C	C	C	C	C	C	C	13·4
3	13·3	11·7	9·7	6·9	4·0	E	6·3	9·9	10·8	13·3	13·5	13·6
4	12·7	12·2	11·5	10·5	9·8	6·5	6·9	10·5	12·4	13·2	11·8	10·8
5	U12·0R	U11·9F	U11·2F	F	F	F	F	10·5F	12·5	12·0	10·8	11·3
6	F	F	F	F	U7·7S	F	6·8	10·5	12·2	12·6	11·6	10·7
7	13·3	11·9	9·4	6·1	5·7	5·1	6·8	10·3	12·4	11·8	10·5	10·8
8	F	F	F	F	F	F	F	U11·7F	11·8	12·2	12·3	12·0
9	F	F	F	9·1	7·6	4·6	6·6	10·3	12·1	12·3	11·4	10·9
10	Fs	Fs	F	F	7·1	U3·5F	6·3	9·8	10·9	10·1	9·5	9·9
11	13·3	9·9	8·5	7·0	3·9	3·2	6·9	10·8	12·5	12·6H	10·6	10·5
12	F	U10·6R	U10·2R	9·8	8·8	7·2	7·7	10·1	12·1	12·8H	13·2H	11·6
13	U12·2F	12·1	F	F	F	3·9	6·8	10·0	10·8	10·6	10·1	9·7
14	F	F	9·4	8·2	6·5	4·5	7·3	10·4	11·8	13·0	13·6	U14·0RH
15	F	F	F	9·7	U9·7F	5·9	7·3	10·3	12·0	12·5	10·5	10·7
16	13·4	F	F	10·4	8·6	5·8F	7·3	10·5	12·3	13·1	R	11·8
17	11·2	10·6	9·6	C	8·7	6·9	8·2	11·4	12·9	13·4	13·2	12·1
18	U13·0S	F	U11·6S	11·3	9·8	9·6	10·7	12·4	13·8	11·8	11·2	10·8
19	11·0	10·7	9·0	8·5	7·8	6·2	8·2	10·9	12·6	13·2	RH	11·8
20	11·0	9·7	F	7·6	6·5	4·2F	7·2	10·2	11·8	11·9	11·3	11·1
21	F	F	8·6	F	7·4	5·4	7·4	10·6	11·7	11·8	11·1	11·2
22	C	C	C	C	C	C	C	C	U11·8S	12·0	10·8	10·8
23	F	U11·6S	F	10·0	U9·6FS	F	U8·2F	10·0	12·0	11·7H	10·8	10·6
24	12·8	F	F	C	3·5	4·0	7·6	9·2	11·4	12·3	12·1H	W <sub>H</sub>
25	10·8	10·0	10·5	9·3	6·0	5·6	8·5	10·5	11·8	13·4	13·1	10·8
26	U11·5S	11·1	10·4	U9·7S	8·6	U6·1S	7·6	C	C	12·6	11·4	10·8
27	U11·6S	10·8	U10·8F	10·8	8·4	4·9H	7·0	10·6	11·4	11·5	10·6	10·4
28	11·0	9·8	7·6	3·8	3·0	E	7·0	10·8	10·6	11·0	13·8	12·7
29	11·2	U9·6S	8·4	8·3	8·1	7·4	9·4	U11·6S	13·0	13·4	11·6	11·7
30	11·4	U9·6S	10·0	11·0	6·8	2·8	7·2	10·2	U11·7S	12·6	C	C
Count	19	18	18	20	25	24	26	27	28	29	26	28
Median	11·6	10·6	9·6	9·2	7·6	5·0	7·2	10·5	11·8	12·3	11·4	10·8
Mean	11·8	10·5	9·5	8·6	7·2	5·4	7·0	10·6	11·9	12·2	11·7	11·3

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

Characteristic : foF2  
 Unit . Mc  
 Month : April 1960

TABLE 34 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude . 10 2°N  
 Longitude : 77.5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
8.8	9.1	B	13.5	13.0	12.6H	10.8H	C	C	C	C	C	1
13.6	14.8	15.4	C	13.7	12.4	11.4	11.6	11.6	11.8	12.5	13.2	2
16.0	16.0	15.7	15.9	15.8H	14.8H	14.4R	14.6	14.4H	14.3	13.6	12.7	3
10.7	11.2	11.6	12.9	13.6	13.6	13.2	11.8	C	F	F	F	4
11.1	10.8	11.0	11.4	11.6	11.6	11.5	10.4	F	F	F	F	5
10.9	11.6	12.6	13.8	14.0	14.2	13.5	11.8	F	F	F	13.8	6
10.5	10.8	11.3	12.0	12.8	13.0	12.1	U9.8F	F	F	F	F	7
11.8	12.6	13.1	13.8	14.3	14.0	14.1	13.1	F	F	F	F	8
11.2	11.8	12.1	12.9	13.1	13.3	13.0	U11.4F	F	F	F	F	9
10.2	9.8	10.6	11.7	12.7	12.7	12.3	10.8	12.0	13.1	13.3	13.7	10
11.0	11.3	11.7	12.9	13.7	13.3	13.0	11.8	U11.0F	F	12.1	U12.0r	11
11.6	11.5	11.8	13.2	14.1	13.7	13.6H	12.4	12.2	13.3	13.3	13.2	12
11.2	11.9	12.9	13.7	13.6	13.4H	12.4	10.6	F	U11.0r	U12.8F	U13.0r	13
11.8	11.8	12.2	12.8	13.0	13.4	12.8	11.2	F	F	F	F	14
11.6	12.3	12.8	13.0	13.6	13.9	13.8	U12.8R	12.1	12.8	13.1	13.3	15
11.0	11.2	11.5	11.8	12.1	U12.0s	11.6	10.4	F	F	F	F	16
11.8	12.3	12.5	12.8	12.9	12.8	12.7	11.0	F	F	F	F	17
10.8	11.6	12.5	12.8	12.8	12.4	10.2	U9.0F	8.5F	8.4	F	10.6	18
11.8	12.2	12.6	12.8	13.3	13.0	12.6	F	F	F	F	U11.8s	19
11.0	10.8	10.8	11.2	11.7	U11.7s	C	U9.2s	F	F	F	F	20
11.3	11.2	11.6	12.6	13.0	U12.0s	11.6	9.4	C	C	C	C	21
10.9	11.3	12.0	12.7	12.9	13.1	12.2	F	F	F	F	F	22
10.8	11.2	11.6	12.5	13.5	13.3	12.7H	10.9	F	F	F	F	23
10.6	9.8	10.4	11.6	12.1	12.4	12.6	C	C	11.6	12.5	12.4	24
10.5	11.7	12.3	13.0	13.1	C	12.8	U11.4s	F	11.0	U11.8fs	12.4	25
10.6	10.6	11.0	11.6	13.0	U13.2R	12.4	Fs	U11.0F	F	F	F	26
10.6	11.1	12.0	13.1	13.8	14.0	13.2	11.8	11.2F	U11.2F	F	U11.4s	27
10.0	10.2	10.9	12.2	13.6	12.7	12.4	12.0	12.3	U12.4R	C	11.6	28
11.8	11.7	12.0	13.0	13.0	U12.0s	11.2	U10.0s	10.6	11.0	U11.6s	U11.8s	29
12.0	11.8	11.3	11.6	11.4	11.4	U10.6s	9.0	8.4	U8.8F	12.5	U9.2SH	30
30	30	29	29	30	29	29	25	12	13	11	16	Count
11.0	11.4	12.0	12.8	13.0	13.0	12.6	11.2	11.4	11.6	12.5	12.4	Median
11.2	11.5	12.1	12.7	13.2	13.0	12.4	11.1	11.3	11.6	12.6	12.3	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds,

Characteristic : foF2  
 Unit : Mc  
 Month : April 1960

TABLE 34 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	6 6	4 7	4 4	3 0 <sup>H</sup>	E	4 0	8 1	11 1	11 2 <sup>H</sup>	10 1	12·8 <sup>R</sup>	9 6
2	C	C	C	C	C	C	C	C	C	C	13 1	13 4
3	13 0	11 0	8·7	5 5	2·7	3·4	7·9	10 3	12 3	13 7	13 2	14 8
4	12 6	12 0	11 1	10 2	8 6	4 9	8 9	11·6	13 2	12 8	11 2	10 6
5	F	F	F	F	F	F	8 5	11 7	12 6	10·9	11·0	11 3
6	F	F	F	F	F	F	8 9 <sup>F</sup>	11·3	12·7	12 4	10 8	10·7
7	12 8	10 9	7 3	6·0	5 3	5·1	8·7	11·3	12·6	10 8	10 7	10 7
8	F	F	F	U9·6 <sup>F</sup>	F	F	U11·5 <sup>F</sup>	11·7	12·3	12 2	12 1	11·8
9	F	F	F	8 4	6 2	3·9	8 8	11·3	12·3	11 8	10 8	11 1
10	F	F	U9 9 <sup>F</sup>	F	U5 5 <sup>F</sup>	U3·3 <sup>FH</sup>	8 3	10 8	10 6	9 7	9·6	10 2
11	12 3	9 2	8·0	5 4	3·5	4·4	9·1	12 0	12 7	12 0 <sup>II</sup>	10 3	10 7
12	U11 0 <sup>F</sup>	U10·7 <sup>F</sup>	10·4	U9 2 <sup>F</sup>	8 0	5 8	9 1	11·1	12 6	13 2 <sup>II</sup>	12 2	11·4
13	U11 8 <sup>F</sup>	11·8	F	F	5·1 <sup>F</sup>	4 5	8 8	10 7	10 5	10·6	9 5	10 6
14	F	U10·2 <sup>s</sup>	8 6	7·4	5·5	5 0	9 2	11 0	12·6	13 5	13 7	13 0 <sup>H</sup>
15	F	F	F	9·8	7 3	5·1	8·9	11 4	12 5	12 0 <sup>H</sup>	9 7	11 1
16	12 6	F	10 2	U9 7 <sup>s</sup>	F	5 4	9·0	11 6	12 8	13 2	11 9	11 5
17	11 1	10 0	9 0	8·8	8·3	6 8	9·8	12·6	C	13 3	12 8	12·0
18	12 2	11 6	F	10 4	9·7	9·6	11·6	12·7	13·0	11·6	10 9	10·7
19	10·9	9 8	8·9	8·3	6 8	6·3	9·8	12·0	13·0	13 1	12 3	11 8
20	U11·1 <sup>F</sup>	9·1	8·3	7·0	5 3	U4·4 <sup>F</sup>	8·7	11·2	12 1	11 8	11·1	11·0
21	F	F	F	F	7 0	5 6 <sup>H</sup>	9·2	11·2	11 8	11·5	11 2	11·2
22	C	C	C	C	C	C	C	C	12·0	11 7	10·8	10·8
23	F	F	F	F	F	F	9·4 <sup>s</sup>	11·6	11 8 <sup>H</sup>	10 9	10·7	10·6
24	F	F	8 7	C	3·6 <sup>II</sup>	6 0 <sup>s</sup>	8·4	10 2	12 2	12·0 <sup>H</sup>	12 0 <sup>II</sup>	11·1
25	10 2	10 4	10 8	7·4	5·5	6 5	9·9	10·8	12 6	13·3	12·4 <sup>H</sup>	10·4
26	11 0	10·7	10 4	9 6	7·7	5·8	C	C	12 8	12 4 <sup>R</sup>	10 8	10 7
27	11 0	U10·8 <sup>FS</sup>	F	10·2	7 2	5·0	9·0	11·0	11 6	11 0	10 6	10·4
28	10 2	8·8	5 3	3 0	2·9	4 5	9·2	11 2	10 0	13 0	13 5	12·0 <sup>II</sup>
29	10·2	8·8	8·4	8 2	7 9	7 8	10·6	12 6	13 6	13 2 <sup>RH</sup>	11 5	11 8
30	10·6	U9 8 <sup>s</sup>	10·6	9·0	4·8	4·8	9 2	11 0	12 0	13·2	C	12·8
Count	18	18	18	21	23	24	27	27	28	29	29	30
Median	11 0	10·3	8·8	8 4	5 8	5·0	9·0	11·3	12 4	12·0	11 2	11·1
Mean	11·2	10 0	8·8	7 9	6 1	5·3	9·2	11·4	12 2	12·1	11 5	11 3

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

Characteristic : fo F2  
Unit : Mc  
Month : April 1960

TABLE 34 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
U8 9WH	10.4	R	13.8	12.4	11.2H	10.6H	C	C	C	C	C	1
14.3	15.2	C	13.8	13.4	11.6	11.5	11.6	11.7	12.2	13.0	13.3	2
15.8	15.9	15.8	16.0H	15.6	14.8	14.6H	14.2H	14.2	13.8	12.7	12.4	3
10.9	11.5	12.2	C	13.7	13.4	12.7	C	F	F	F	F	4
10.9	10.8	11.2	11.6	11.9	11.6	11.2	U9 3F	F	F	F	F	5
11.0	12.0	13.2	14.2	14.0	13.8	12.9	F	F	F	F	13.4	6
10.7	11.0	11.6	12.4	12.9	12.7	11.4	F	F	F	F	F	7
12.0	12.6	13.4	14.4	14.2	14.0	13.8	F	F	F	F	13.5	8
11.7	12.0	12.7	13.0	13.1	13.3	12.7	F	F	F	F	Fs	9
9.9	10.5	11.3	12.3	12.8	12.6	11.6	11.3	13.0	13.1	13.6	13.6	10
11.2	11.4	12.3	13.4	13.6	13.0	12.6	11.2	U10 6F	11.6	U11.9s	F	11
11.5	11.5	12.6	13.7	13.8	13.7H	13.2	12.1	12.6	13.4	U13.1F	12.8	12
11.6	12.4	13.3	13.8	13.6	12.9	11.6	F	F	U12.2F	F	F	13
11.8	U11.8s	12.4	12.8	13.5	U13.2R	U11.6s	F	F	F	F	F	14
12.1	12.5	12.9	13.4	14.0	14.0	13.4	J12.3R	12.6	13.1	13.3	U13.4s	15
11.0	11.3	11.6	12.0	12.2	U12.0s	11.2	F	F	F	U10.6F	11.2	16
12.0	12.4	12.7	13.0	12.8	12.7	U11.8s	10.2	F	10.5	F	U12.9s	17
11.1	12.0	12.7	12.8	12.7	U12.0s	U10.0s	8.5F	F	F	U9.4F	10.8	18
11.9	C	12.6	13.0	13.4	12.8	U11.6s	F	F	F	U11.8F	F	19
10.8	10.8	10.8	11.4	11.7	11.5	10.5	F	F	F	F	12.7	20
11.2	11.3	12.0	12.8	12.6	12.0s	10.8	F	C	C	C	C	21
11.0	11.6	12.4	12.8	13.0	12.8	11.4H	F	F	F	F	F	22
11.0	11.2	11.8	13.0	13.6	13.0	12.0	F	F	F	F	F	23
10.2	9.8	11.0	11.8	12.0	12.6	12.3	C	C	12.1	12.8	11.8	24
11.0	12.0	12.7	13.1	13.1	C	12.6	F	U11.0F	F	U12.0s	U12.0s	25
10.6	10.7	11.2	12.4	13.4	12.8	12.2	U11.5F	F	F	F	U12.0s	26
11.0	11.6	12.8	13.4	14.0	13.8	12.6	11.4	11.0F	F	U11.4F	11.4	27
9.6	10.7	11.3	13.1	13.2	U12.3R	12.3	12.0	12.4	12.0	11.0	11.7	28
11.7	11.6	12.5	13.6	12.4	11.6	10.6	10.2	10.7	11.3	U11.8s	U12.0s	29
11.8	11.4	11.5	11.6	11.2	11.3	U9.5s	8.3F	S	U10.6s	9.0	11.2	30
30	29	28	29	30	29	30	14	10	12	15	18	Count
11.0	11.5	12.4	13.0	13.2	12.8	11.7	11.4	12.0	12.2	11.9	12.2	Median
11.3	11.7	12.3	13.0	13.1	12.7	11.9	11.0	12.0	12.2	11.8	12.3	Mean

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

Characteristic : foF1  
 Unit : Mc  
 Month : April 1960

TABLE 35  
 Ionospheric Data  
 75 0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									L		L	L
2								C	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								C	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	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	C	C
<hr/>												
Count											.	..
Median								..	..	.	..	..
Mean								.	.	.	.	.

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

Characteristic : foF1  
 Unit : Mc  
 Month : April 1960

TABLE 35 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	B	B	L								1
L	L	L	C	L	L							2
L	L	L	L	L	L							3
L	L	L	L	L	L							4
L	L	L	L	L	L							5
												6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	A	A	L	L	L							9
L	L	L	L	L	L							10
												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
												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
												21
u5·1L	L	L	L	L	L							22
L	L <sup>H</sup>	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
												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
1		..	..	..	.							Count
..					.							Median
		.			..							Mean

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

Characteristic : foF1  
 Unit : Mc  
 Month : April 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							C	C	C	C	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13							L	L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17							L	L	C	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							C	C	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	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	C	L
Count							.	.	.	..	.	.
Median							.	.	.	.	.	.
Mean							..	.	.	..	..	..

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

Characteristic : foF1  
 Unit : Mc  
 Month : April 1960

TABLE 35 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	B	L	L	L							1
L	L	C	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 <sub>H</sub>	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
..	.	..	..	.	..							Count
				.	..							Median
		..	.	.	.							Mean

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



Characteristic : foE  
 Unit : Mc  
 Month : April 1960

TABLE 36  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10 2°N  
 Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								2.5	A	A	A	A
2							C	C	A	C	C	A
3								2.8	A	A	R	A
4								2.8	A	A	A	A
5								B	B	B	B	B
6								2.7	A	A	A	A
7								A	A	A	A	A
8								A	A	A	A	A
9								2.8	A	A	A	A
10								A	A	A	A	A
11								2.7	A	A	A	A
12								2.8	A	A	A	A
13								A	A	A	A	A
14								2.8	3.4	A	A	A
15								U2.8R	A	A	A	A
16								A	A	A	A	A
17								2.8	A	A	A	A
18								3.0	A	A	A	A
19								U3.0RH	A	A	A	A
20								U2.9R	A	A	A	A
21								2.9	A	A	A	A
22							C	C	A	A	A	A
23								2.9H	A	A	A	A
24								2.8H	3.4RH	A	A	A
25								2.9	3.4R	A	A	B
26								C	C	A	A	A
27							R	A	A	A	A	A
28								A	U3.1R	A	A	A
29								2.6H	B	B	B	B
30								2.8	3.3	3.6	C	C
Count							..	19	5	1	..	.
Median							.	2.8	3.4	..	.	.
Mean							.	2.8	3.3	..	.	.

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

Characteristic : foE  
 Unit : Mc  
 Month : April 1960

TABLE 36 (Contd)  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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

Characteristic : foE  
 Unit : Mc  
 Month : April 1960

TABLE 36 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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

Characteristic : foE  
 Unit : Mc  
 Month : April 1960

TABLE 36 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10.2 N  
 Longitude : 77.5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	B	B	A								1
B	A	C	A	A								2
A	3.8	A	A	A								3
A	A	A	C	2.9								4
B	B	A	A	A								5
A	A	A	3.4	A								6
A	A	A	A	A								7
A	A	3.7	3.4	A								8
A	A	u3.6R	3.2	R								9
A	A	A	u3.8R	A	A							10
A	A	A	A	A								11
A	A	B	A	A								12
A	A	3.8	A	A								13
A	A	A	A	B								14
A	A	A	A	2.8								15
A	A	A	A	A								16
A	A	A	A	A								17
A	A	A	A	A								18
A	C	A	A	A								19
A	A	A	A	A								20
A	A	A	A	A								21
A	A	A	A	F								22
A	A	3.9	3.5	2.8								23
A	A	A	A	A								24
B	B	A	A	A	C							25
A	A	A	A	A	A							26
A	A	A	A	A								27
A	A	A	3.3	R								28
A	A	A	A	A								29
A	A	A	A	A								30
.	1	4	6	3	.							Count
..	.	..	3.4	..	.							Median
.	..	.	3.4	..	.							Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : foEs  
 Unit : Mc  
 Month : April 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								G	11·0	8·2	13·2	11·8
2	C	C	C	C	C	C	C	C	C	C	C	12·6
3		3·6						G	7·8	11·8	6·0	12·0
4	4·4							G	10·6	12·2	12·6	12·8
5	3·8					4·8		G	B	10·6	12·0	12·0
6								6·5	10·8	12·4	12·6	13·2
7		3·9		3·5				7·8	9·8	12·2	12·7	13·0
8	3·3							8·8	10·7	10·7	11·8	12·4
9	4·0							G	11·2	11·8	12·7	12·4
10								11·1	12·2	12·1	12·2	12·7
11				6·0				G	11·2	12·2	12·7	13·0
12				4·0				8·0	11·8	12·0	12·8	13·2
13								9·8	11·0	12·0	12·2	12·6
14						5·8		G	4·6	11·6	12·4	12·6
15		4·8	S	5·6	10·8			8·9	12·1	12·6	12·2	12·6
16	u5·8s							u9·0s	11·0	11·4	12·4	13·0
17				C	4·4			u8·0s	9·8	12·5	12·4	12·0
18								7·0	11·0	12·0	12·0	12·0
19								7·0	11·0	12·0	12·5	13·2
20	4·2							G	10·5	11·8	12·2	12·2
21								7·0	11·0	12·4	12·6	13·0
22	C	C	C	C	C	C	C	C	12·0	12·0	13·0	13·4
23								7·0	11·0	11·6	12·6	13·0
24				C				G	G	12·0	12·8	13·0
25						3·9		6·4	9·2	11·8	12·0	13·0
26								C	C	12·6	14·4	13·2
27							G	8·2	11·0	11·0	12·2	12·6
28								6·6	G	10·2	12·8	12·0
29								G	11·2	12·0	13·0	13·0
30			5·0					6·3	G	G	C	C
Count	6	3	1	4	2	3	1	27	27	29	28	29
Median	4·1	.	.	.	.	.	.	6·6	11·0	12·0	12·6	12·7
Mean	4·2	..	.	.	.	.	.	7·8	10·6	11·7	12·3	12·7

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

Characteristic : foEs  
 Unit : Mc  
 Month : April, 1960

TABLE 37 (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
6.8	G	B	B	10.5	9.4							1
10.5	9.8	10.4	C	10.2	7.4	S	C	C	C	C	C	2
17.0	G	11.3	9.8	9.8	7.4			2.3	6.4	3.2	2.8	3
12.8	12.0	11.2	9.6	8.2	7.4			C			u7.0s	4
12.6	12.8	11.8	11.4	9.8	7.6							5
13.5	12.5	7.7	G	7.6	8.1				4.4	u4.8s	4.0	6
12.8	12.4	10.6	9.8	8.9	8.4							7
12.0	10.9	8.8	4.9	3.8	S							8
12.4	12.1	8.9	G	8.4	8.6							9
11.8	12.2	12.1	9.8	8.3	7.5							10
13.6	13.0	12.4	10.0	8.8	7.0				3.8			11
13.0	12.6	12.8	G	17.4	8.0				4.6	7.0	u7.0s	12
13.0	10.2	5.6	10.8	10.6	7.0						3.8	13
12.8	13.0	12.0	11.0	9.0	G				3.6			14
12.9	12.7	12.6	9.8	7.8	7.6					2.8	3.8	15
12.6	12.4	12.2	12.0	u10.0s	7.8							16
12.8	12.2	12.0	10.6	8.1	u7.8s						u4.8s	17
12.5	12.4	11.8	u12.0s	u10.6s	u6.6s							18
12.6	12.3	12.2	11.4	10.8	7.7							19
12.0	12.4	11.6	11.7	9.5	8.5	C			1.9			20
13.0	12.4	12.0	10.0	10.0	7.0			C	C	C	C	21
13.0	13.0	12.0	10.0	9.0	7.0							22
13.0	13.0	11.0	G	9.0	6.0							23
13.0	12.4	12.0	11.0	10.0	7.0		C	C	u4.8s			24
12.0	12.6	11.4	10.2	12.0	C				3.8	3.0	5.2	25
12.4	13.2	12.4	8.4	3.6	8.0						4.0	26
13.0	13.0	12.2	8.8	9.0	8.0					6.0		27
13.0	13.0	13.0	7.8	G	8.0			6.6	4.0	C		28
13.0	12.0	13.3	12.0	11.4	8.0				2.1	2.4		29
13.0	12.5	12.6	11.0	11.2	8.6				u4.2s		2.4	30
30	30	29	28	30	28	.	.	2	11	7	10	Count
12.8	12.4	12.0	10.0	9.2	7.6	.	..	..	4.0	3.2	4.0	Median
12.6	12.3	11.4	10.2	9.4	7.7	.	..	..	4.0	4.2	4.5	Mean

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

Characteristic : foEs  
 Unit : Mc  
 Month : April, 1960

TABLE 37 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							G	10.2	10.8	G	9.2	11.8
2	C	C	C	C	C	C	C	C	C	C	11.6	11.8
3	u5 5s	3.4						7.7	10.8	11.6	B	9.8
4	2.6							8.4	10.8	12.4	12.5	12.6
5					2.4			B	B	11.4	12.0	12.6
6			8.8					7.6	12.9	12.6	12.7	13.6
7	3.3	4.9	3.8	4.4				10.9	11.4	12.9	12.6	12.6
8							5.7	8.9	11.6	12.4	12.2	12.7
9								9.8	12.3	12.6	12.4	11.8
10							8.6	11.4	12.2	12.4	12.6	12.3
11								G	11.6	12.4	13.8	12.5
12								8.4	12.2	12.4	12.8	12.8
13								9.4	12.0	12.4	12.6	12.7
14							G	4.2	11.0	12.3	13.0	12.0
15		S	6.2	8.4	8.9		7.8	10.8	12.2	12.6	13.4	13.4
16							G	8.8	11.6	12.6	12.6	12.7
17			3.8	u5 0s			G	8.8	C	12.2	11.6	12.6
18							G	10.3	12.4	12.0	12.7	12.6
19							G	8.2	12.2	12.4	12.8	13.2
20							G	9.4	11.2	12.1	12.0	12.0
21							G	9.0	12.0	12.6	12.4	12.6
22	C	C	C	C	C	C	C	C	12.0	13.0	13.0	13.4
23								9.0	11.2	12.4	13.0	12.4
24				C				G	10.0	12.0	12.4	13.0
25								7.6	11.2	12.0	12.0	12.0
26							C	C	12.0	13.4	13.0	13.0
27							G	11.0	12.0	12.2	12.4	13.0
28							G	11.0	12.2	12.8	12.8	12.2
29							G	G	12.0	13.0	13.0	13.0
30							G	G	G	12.8	C	12.6
Count	3	2	4	3	2	..	14	26	27	29	28	30
Median	.	.	..	.	.	..	G	9.0	11.6	12.4	12.6	12.6
Mean	.	..	.	.	..	.	.	9.0	11.6	12.4	12.5	12.5

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : foEs  
 Unit . Mc  
 Month : April, 1960

TABLE 37 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10.2 N  
 Longitude : 77 5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.4	11.4	B	B	10.0			C	C	C	C	C	1
10.0	8.4	C	11.2	9.6	7.4				4.2	3.4		2
10.5	G	8.6	10.4	8.4			2.2					3
12.5	11.6	11.2	C	8.0			C				5.0	4
12.8	12.8	11.6	11.0	8.6								5
13.0	12.3	9.2	7.0	7.8	u7.6s			2.1	4.8	4.3	3.1	6
13.2	11.8	9.7	8.6	8.1							5.6	7
9.8	10.8	8.0	4.4	7.5								8
12.1	11.7	G	8.2	7.8			4.2				2.8	9
12.4	12.5	9.6	8.6	8.6	5.8							10
13.8	12.8	11.3	9.2	7.5				2.1	4.4	4.6		11
12.8	13.0	B	10.2	9.4	3.4				3.8	u7.6s		12
12.8	11.4	5.7	10.8	8.6					4.4	4.2		13
12.4	12.4	11.0	9.2	G					2.2			14
12.7	13.1	10.9	9.3	7.9						4.1	u4.6s	15
12.1	12.4	12.2	11.6	8.2	S							16
12.2	11.4	11.2	9.2	8.0								17
12.7	12.2	11.5	11.2	8.7	S							18
12.2	C	11.7	10.2	8.2	u5.8s						4.2	19
12.2	12.0	11.6	9.6	8.5	S							20
13.0	12.2	11.0	11.0	8.0				C	C	C	C	21
13.0	12.0	10.0	9.0	8.4						4.0		22
13.0	11.0	G	9.4	8.0								23
13.0	12.6	11.0	11.0	9.0			C	C				24
12.0	11.0	9.0	12.4	8.0	C			3.0	3.2			25
13.0	12.0	12.0	10.0	7.0	7.0				2.4			26
12.8	12.8	10.4	9.0	8.0	6.6				8.0			27
12.6	13.0	9.2	G	G	7.0		2.8	7.0				28
12.0	13.3	11.6	11.6	9.0	5.8				3.2			29
13.0	13.2	12.0	11.0	8.6	7.0							30
30	29	27	28	30	10	..	3	4	10	7	6	Count
12.6	12.2	11.0	9.8	8.2	6.8	.	.	.	4.0	4.2	4.4	Median
12.4	12.0	10.4	9.8	8.3	6.3	.	.	.	4.1	4.6	4.2	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds



Characteristic : fbEs  
 Unit : Mc  
 Month : April, 1960

TABLE 38  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								G	3.5	3.8	4.0	4.2
2	C	C	C	C	C	C	C	C	C	C	C	4.1
3		1.4						G	3.4	4.0		
4	1.5							G	3.4	3.9	4.1	4.4
5						1.6		G	B			
6								2.8	3.4	3.8	4.0	4.1
7		1.6		2.1				2.8	3.3	3.8	4.1	4.2
8	1.4							3.2	3.3	3.8	4.1	4.1
9	1.4								3.4	3.9	4.2	4.3
10								2.9	3.4	4.0	4.0	4.3
11				1.7				G	3.4	3.8	4.1	4.3
12								3.0	3.4	3.8	4.1	4.3
13								3.0	3.5	4.0	4.2	4.5
14								G	3.6	4.0	4.2	4.4
15		1.8	1.9	2.2	2.7			2.9	3.6	3.8	4.2	4.3
16	2.0							3.0	3.5	3.9	4.0	4.2
17				C	1.6			3.0	3.4	3.8	4.0	4.3
18								3.0	3.5	4.0	4.2	4.4
19									3.5	4.0	4.2	4.3
20	1.9							G	3.5	4.0	4.2	4.4
21								2.9	3.5	3.9	4.0	4.2
22	C	C	C	C	C	C	C	C	3.4	3.8	4.1	4.2
23								3.0	3.4	4.0	4.1	4.2
24				C				G	G	3.9	4.0	4.2
25						1.6			3.8	3.8	4.2	4.2
26								C	C	3.7	4.0	4.0
27							G	2.8	3.4	3.7	4.0	4.0
28								3.1	G	3.8	4.0	4.2
29								G				
30									G	G	C	C
Count	5	3	1	3	2	2	1	23	26	27	25	26
Median	1.5	..	.	..	..	.	.	2.8	3.4	3.8	4.1	4.2
Mean	1.6	.	.	.	.	..	.	3.0	3.5	3.9	4.1	4.2

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : fbEs  
 Unit : Mc  
 Month : April, 1960

TABLE 38 (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
	G	B	B	4.5			C	C	C	C	C	1
4.8	4.2	4.0	C	3.3	2.8			1.7	2.2	1.7	1.7	2
4.4	G		3.6	3.2	3.0							3
	4.2	4.3	4.0	3.4							1.8	4
	4.4			3.4								5
4.2	4.2	4.1		3.3	3.0				2.1	2.1	2.3	6
4.3	4.2	3.9	3.7	3.2	2.7							7
4.0	6.8	5.0	3.6	3.2	2.7							8
4.2	4.1	3.9			2.8							9
4.3	4.3	4.1	3.7	3.5	2.8							10
4.2	4.2	4.0	3.6	3.3	2.8				1.6			11
4.3	4.2	4.0		6.6	3.8				1.5	2.2	2.3	12
4.5	4.2	4.3	4.1	3.5	2.7						1.5	13
4.4	4.4	4.2	3.8	3.4								14
4.4	4.5	4.1	3.9	3.3	2.8					1.9		15
4.4	4.1	4.1	3.8	3.3	2.7							16
4.4	4.2	4.0	3.7	3.3	2.6						2.0	17
4.4	4.2	4.0	3.7	3.4	2.6							18
4.2	4.2	4.0	3.7	3.3								19
4.4	4.2	4.2	3.9	3.4		C						20
4.4	4.2	4.0	3.8	3.0	2.8			C	C	C	C	21
4.2	4.2	4.0	3.7	3.4	2.8							22
4.2	4.2	4.0	G	3.4	2.8							23
4.2	4.1	3.8	3.8	3.4			C	C	1.5			24
4.2	4.4	4.0	3.8	3.6	C				1.9	2.2	2.6	25
4.2	4.2	4.0	3.6	3.2	2.8							26
4.0	4.0	3.9	3.7	3.4	4.0					1.8		27
4.2	4.0	4.0	3.6	G	2.6			2.0	2.6	C		28
4.2	4.2	4.0	3.6	3.2	2.6					1.5		29
4.2	4.0	3.8	3.6	3.2	2.8				1.5			30
26	30	27	24	29	22			2	8	7	7	Count
4.2	4.2	4.0	3.7	3.3	2.8				1.8	1.9	2.0	Median
4.3	4.3	4.1	3.7	3.5	2.9	..	..		1.9	1.9	2.0	Mean

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

Characteristic : fbEs  
 Unit : Mc  
 Month : April, 1960

TABLE 38 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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

Characteristic : fbEs  
 Unit : Mc  
 Month : April, 1960.

TABLE 38 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.2	4.0	B	B				C	C	C	C	C	1
	4.0	C	3.6	3.0								2
4.2	G	3.9	3.6	3.0			1.7					3
4.3	4.2	4.2	C	3.0			C				1.7	4
	4.3	4.0	3.7	3.2								5
4.3	4.2	4.0	3.6	3.3				1.6	1.6	2.3	1.9	6
4.3	4.1	3.8	3.7	3.0							1.4	7
4.3	4.4	4.2	4.5	3.0								8
4.2	4.2		3.4	3.0								9
4.2	4.1	4.0	3.5	3.2	2.3							10
4.2	4.0	3.8	3.4	3.0				1.6	1.6	2.0		11
4.2	4.0		4.0	4.1	2.6			1.8	2.4			12
4.2	4.3	4.6	3.7	3.1				1.4				13
4.4	4.2	4.0	3.6	G				1.6				14
4.4	4.2	4.0	3.5	3.0					1.7	2.1		15
4.3	4.2	4.0	3.5	3.0	2.2							16
4.2	4.0	3.9	3.5	3.1								17
4.3	4.2	4.0	3.4	3.0								18
4.3	C	4.2	3.6	3.1							1.8	19
4.3	4.2	4.0	3.8	3.1								20
4.2	4.2	4.0	3.5	3.0				C	C	C	C	21
4.3	4.2	4.0	3.6	3.2						1.6		22
4.4	4.0	G	3.8	3.0								23
4.2	4.2	4.0	3.6	3.0			C	C				24
4.2	4.2	4.0	3.8	3.0	C				2.1			25
4.2	4.0	3.8	3.4	3.0	2.8				2.1			26
4.2	4.0	3.9	3.5	3.5					1.8			27
4.1	4.0	3.8	G	G			2.0	2.6				28
4.4	4.0	4.0	3.5	2.9								29
4.2	4.0	3.8	3.4	3.0	2.3							30
28	29	26	28	29	5	.	2	3	8	5	5	Count
4.2	4.2	4.0	3.6	3.0	2.3		..	..	1.7	2.0	1.8	Median
4.2	4.1	4.0	3.6	3.1	2.4	.		..	1.8	2.0	1.8	Mean

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

Characteristic : fmin  
 Unit : Mc  
 Month : April, 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	1.6	1.2	1.1	1.7	E	E	2.0	1.9	2.8	2.5	2.7	3.1
2	C	C	C	C	C	C	C	C	C	C	C	3.1
3	1.5	1.3	1.3	1.4	1.5	E	2.4	2.0	2.4	2.6	3.0	4.6
4	1.2	1.3	1.1	1.3	1.4	1.5	2.2	2.6	2.6	3.0	3.1	3.2
5	1.3	1.4	1.6	1.7	1.5	1.3	2.0	4.0	5.3	5.4	5.2	5.0
6	1.2	1.4	1.5	1.8	1.6	1.5	2.3	2.5	2.4	2.5	2.6	2.8
7	1.7	1.3	2.4	2.1	1.4	1.3	2.1	2.0	2.2	2.6	2.8	2.9
8	1.1	1.2	1.3	1.6	1.7	2.2	2.2	2.1	2.4	2.7	2.9	3.0
9	1.2	1.2	1.4	1.3	1.5	1.6	2.2	2.1	2.4	2.9	3.1	3.3
10	1.2	1.3	1.3	1.4	1.5	1.9	2.3	2.0	2.3	2.7	3.0	2.9
11	2.0	1.5	2.0	1.4	2.0	1.7	2.3	1.9	2.3	2.7	2.8	2.9
12	1.5	1.8	1.5	1.5	1.5	1.8	2.5	2.4	2.9	2.6	2.8	3.0
13	2.2	2.0	1.6	1.9	2.0	2.2	2.4	2.2	2.5	2.8	3.0	3.2
14	1.4	1.5	1.6	1.4	1.5	1.5	2.4	2.3	2.8	2.8	3.0	3.2
15	1.4	1.2	1.1	1.4	2.5	2.0	2.5	2.6	2.4	2.6	2.8	3.2
16	1.7	1.5	1.4	1.4	1.7	1.7	2.2	2.2	2.5	2.5	2.7	3.0
17	1.6	1.6	1.4	C	1.1	2.1	2.2	1.8	2.3	2.6	2.8	3.0
18	1.5	1.4	1.4	1.4	1.6	1.6	2.4	1.8	2.3	2.6	2.8	3.0
19	1.4	1.6	1.3	1.5	1.5	1.6	2.2	2.0	2.3	2.6	2.6	3.1
20	1.6	1.2	1.6	1.4	1.6	1.5	2.3	1.8	2.1	2.4	2.7	2.9
21	1.4	1.6	1.5	1.5	1.5	1.9	2.2	2.0	2.2	2.8	2.6	2.8
22	C	C	C	C	C	C	C	C	2.2	2.6	2.8	3.0
23	1.7	1.6	1.7	1.5	1.4	1.6	2.2	2.2	2.6	2.7	2.9	3.1
24	1.5	1.6	1.5	C	1.5	1.3	2.2	1.9	2.4	2.6	3.0	3.0
25	1.7	1.5	1.3	1.3	1.2	1.1	2.2	2.4	2.7	3.0	3.0	4.0
26	2.1	1.8	1.6	1.3	1.6	1.8	2.2	C	C	2.4	2.6	2.6
27	1.1	1.5	1.3	1.2	1.4	1.7	1.8	1.6	2.2	2.6	2.6	2.8
28	1.6	1.4	2.0	1.7	1.5	E	2.2	2.6	2.6	3.0	2.8	3.0
29	1.9	1.7	1.9	1.1	1.4	1.5	2.4	2.2	4.0	4.8	5.2	5.0
30	1.4	1.5	1.7	1.6	1.6	1.7	2.4	1.8	2.6	3.0	C	C
Count	28	28	28	26	28	28	28	27	28	29	28	29
Median	1.5	1.5	1.5	1.4	1.5	1.6	2.2	2.1	2.4	2.6	2.8	3.0
Mean	1.5	1.5	1.5	1.5	1.6	1.7	2.2	2.2	2.6	2.8	3.0	3.2

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

Characteristic : fmin  
 Unit : Mc  
 Month : April, 1960

TABLE 39 (Contd)  
 Ionospheric Data  
 75 0 E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.6	3.8	B	6.6	4.5	3.2	1.8	C	C	C	C	C	1
4.8	2.8	4.8	C	2.3	2.4	2.0	1.5	1.4	1.8	1.5	1.7	2
3.2	3.2	2.7	2.8	2.2	3.0	1.8	1.5	1.4	1.4	1.6	1.4	3
3.1	3.2	4.8	4.0	2.4	2.6	2.1	1.7	C	1.5	1.4	1.3	4
4.8	4.1	3.4	2.8	2.7	2.8	1.9	1.3	1.6	1.5	1.5	1.6	5
3.1	3.0	2.8	3.2	2.3	2.3	2.3	1.4	1.2	1.2	1.6	2.2	6
3.0	3.1	2.8	2.6	2.4	2.2	1.7	1.6	1.5	1.3	1.2	1.2	7
3.1	3.0	2.8	2.5	2.5	2.3	1.8	1.0	1.5	1.4	1.3	1.3	8
3.0	3.0	2.7	2.9	3.6	2.3	1.7	1.2	1.3	1.1	1.6	1.5	9
3.0	3.2	3.0	2.8	2.4	2.4	2.0	1.3	1.5	1.6	1.6	1.6	10
3.0	2.8	2.7	2.6	2.3	2.8	1.8	1.5	1.6	1.1	1.6	1.4	11
3.1	3.1	3.0	2.8	2.4	2.2	1.8	1.3	1.4	1.2	1.3	2.0	12
3.1	3.2	3.0	2.6	2.2	1.9	1.7	1.3	1.5	1.4	1.3	1.5	13
3.0	3.0	3.2	2.7	2.2	2.2	1.8	1.7	1.5	1.5	1.3	1.6	14
3.1	C	2.9	2.8	2.4	2.2	1.6	1.3	1.2	1.4	1.1	1.6	15
3.0	3.0	2.7	2.6	2.2	1.9	1.8	1.5	1.3	1.5	1.5	2.0	16
3.0	2.8	2.7	2.7	2.3	2.5	1.9	1.7	1.7	1.5	1.4	1.3	17
3.0	3.1	2.7	2.6	2.4	1.9	1.9	1.5	ul.4s	1.6	ul.5s	1.5	18
3.1	3.1	2.8	2.8	2.2	2.0	1.8	1.2	S	1.5	1.7	1.2	19
3.0	2.9	3.0	2.5	2.3	S	C	S	S	ul.4s	1.2	ul.4s	20
3.0	3.0	2.6	2.7	2.4	2.2	1.7	S	C	C	C	C	21
3.0	3.0	3.0	2.8	2.4	2.2	1.7	S	S	1.6	2.0	1.5	22
3.2	3.0	3.0	3.0	2.3	2.4	3.0	1.3	1.5	1.4	1.5	1.4	23
3.0	3.0	2.8	2.8	2.4	2.7	2.0	C	C	ul.2c	2.0	1.7	24
3.8	3.4	3.0	2.6	2.2	C	1.7	ul.2c	1.5	1.1	1.3	2.0	25
3.0	2.8	2.8	2.4	2.4	2.0	1.7	1.3	1.6	1.5	1.6	1.5	26
3.0	2.8	2.8	2.2	2.0	1.9	1.7	1.5	1.4	1.3	1.4	1.5	27
2.9	3.0	2.8	2.6	2.6	2.1	1.9	1.4	1.4	2.4	C	1.8	28
4.6	3.6	3.0	2.6	2.2	1.8	1.7	1.1	1.5	1.5	1.2	1.3	29
3.0	2.8	2.6	2.4	2.2	2.0	1.8	1.3	1.6	1.3	2.2	1.7	30
30	29	29	29	30	28	29	25	23	28	27	28	Count
3.0	3.0	2.8	2.7	2.4	2.2	1.8	1.3	1.5	1.4	1.5	1.5	Median
3.2	3.1	3.0	2.9	2.4	2.3	1.9	1.4	1.4	1.4	1.5	1.6	Mean

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

Characteristic : fmin  
Unit : Mc  
Month : April, 1960

TABLE 39 (Contd.)  
Ionospheric Data  
75°E Mean Time

Latitude : 10°2N  
Longitude : 77°5E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.4	1.1	1.6	1.7	E	1.9	1.9	2.2	2.3	2.8	3.2	3.1
2	C	C	C	C	C	C	C	C	C	C	4.6	3.3
3	1.4	1.5	1.4	1.5	1.7	2.0	2.7	2.2	2.9	2.8	6.0	3.2
4	1.4	1.4	1.1	1.4	1.4	1.7	2.6	2.6	2.8	3.3	3.2	3.3
5	1.3	1.5	1.7	1.4	1.2	1.8	2.8	5.6	5.5	5.0	4.8	5.0
6	1.2	1.3	1.6	1.9	1.5	1.6	2.6	2.4	2.5	2.7	2.8	3.0
7	1.6	1.7	2.6	1.5	1.4	1.6	2.6	2.0	2.5	2.7	2.8	2.0
8	1.2	1.2	1.2	1.7	2.1	2.2	2.0	2.2	2.5	2.8	2.8	3.1
9	1.3	1.6	1.4	1.4	1.9	1.8	2.6	2.2	2.6	2.7	3.0	3.0
10	1.4	1.3	1.3	1.6	1.7	1.9	2.3	2.3	2.5	2.7	3.0	3.0
11	1.6	1.4	1.6	1.9	1.9	1.5	2.7	2.2	2.6	2.6	2.8	3.0
12	1.5	1.6	1.6	1.4	2.2	2.6	3.0	2.6	2.6	2.8	3.0	3.0
13	2.1	1.6	1.6	2.1	1.9	2.4	2.8	2.4	2.5	2.9	3.1	3.1
14	1.5	1.7	1.6	1.5	1.5	1.8	2.2	2.6	2.6	2.8	3.2	3.2
15	1.4	1.2	1.1	1.9	1.9	2.2	1.9	2.3	2.4	2.5	2.9	3.1
16	1.7	1.4	1.6	1.4	1.5	1.6	2.2	2.3	2.4	2.7	2.8	2.9
17	1.4	1.4	1.2	E	1.9	1.8	2.5	2.0	C	2.7	3.0	2.8
18	1.5	1.4	1.4	1.7	1.6	2.0	2.0	2.2	2.6	2.8	3.1	3.2
19	1.7	1.4	1.6	1.6	1.6	1.8	1.9	1.9	2.4	2.6	2.9	3.0
20	1.4	1.3	1.2	1.4	1.8	1.7	1.8	1.9	2.4	2.5	2.8	3.2
21	1.2	1.3	1.5	1.5	1.8	1.7	2.0	2.2	2.6	2.8	2.8	3.0
22	C	C	C	C	C	C	C	C	2.4	2.6	2.8	3.0
23	1.5	1.7	1.8	1.4	1.7	1.9	2.6	2.2	2.8	2.8	3.0	3.2
24	1.5	1.7	1.5	C	1.6	1.8	2.6	2.4	3.4	2.8	3.0	3.0
25	1.7	1.4	1.4	1.3	1.4	2.0	3.0	3.0	2.8	3.0	3.4	3.4
26	2.3	1.7	1.7	1.6	1.6	2.0	C	C	2.6	2.4	2.7	3.0
27	1.4	1.2	1.2	1.4	1.4	1.7	1.9	1.8	2.2	2.4	2.6	2.9
28	1.4	1.5	2.1	1.3	1.7	2.2	3.0	2.8	2.6	2.7	3.0	3.0
29	1.7	1.8	1.6	1.5	1.3	1.7	1.8	3.6	4.2	5.6	4.8	5.0
30	1.4	1.8	1.8	1.6	1.8	2.0	2.0	2.4	2.8	2.4	C	2.8
<b>Count</b>	28	28	28	27	28	28	27	27	28	29	29	30
<b>Median</b>	1.4	1.4	1.6	1.5	1.6	1.8	2.5	2.3	2.6	2.7	3.0	3.0
<b>Mean</b>	1.5	1.5	1.5	1.6	1.7	1.9	2.4	2.5	2.8	2.9	3.2	3.2

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic . fmin  
Unit . Mc  
Month : April, 1960

TABLE 39 (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
3 0	3.6	9 6	5.0	3 8	2.5	1.6	C	C	C	C	C	1
4 2	2 9	C	2 3	2 4	2 4	1.3	1 3	1.2	1.8	1.4	1.6	2
3 1	3 0	2 7	2 5	2 2	2.6	1 7	1.5	1 6	1 6	1.6	1.4	3
3 2	3.0	3 6	C	2 6	2 3	1.5	C	S	1 3	1 4	1.3	4
4 6	3 9	3 0	2.8	3 1	2 4	1 4	1.6	1 5	1 5	1 7	1 4	5
3 0	3.0	2.8	2.8	2.4	2 7	1.7	1.3	E	1 2	1 8	1.5	6
3 1	2 8	3 0	2 4	2.3	2 1	1 4	S	1 3	1.2	1.2	1 3	7
3.1	2.8	3 0	2 4	2 3	2 2	1.6	1 2	1 1	1 2	1.3	1 3	8
3.1	2 9	3 0	2.5	2.3	2.3	1.4	1.2	1 2	1 3	1.5	1.4	9
3 1	3 1	3.0	2.6	2 4	2.3	1 6	1.4	1.3	1 6	1.4	1.8	10
3.0	2 8	2 8	2 4	2.3	2 3	1.6	1 6	1.6	1 3	1.4	1.8	11
3.0	2.9	4.8	2.4	2 3	2.3	1 6	1.5	1.4	1 2	1.7	2.5	12
3 0	3.0	2 9	2.4	2.2	2.3	1.4	1.5	1 3	1.2	1 3	1.5	13
3.0	3.2	2 8	2.2	3 1	2.4	1.5	1 5	1 6	1.1	1 3	1 3	14
3 4	3.0	3.0	2.5	2.1	2 4	1 6	1.6	1.1	1.3	1 1	1 7	15
2 9	2.9	2.8	2 3	2.2	1.9	1.5	1.5	1.5	1.7	1 9	1.7	16
2 8	2.8	3.0	2.5	2.6	2.3	1 4	1 6	1.4	1.5	1.5	1.7	17
3.2	3.0	2.8	2 5	2 2	2.3	1 5	1.3	U1.4s	1.5	1.5	1.4	18
3.0	C	3.0	2 5	2.4	2.4	S	S	1 4	1.7	1.6	1 2	19
3 0	3.0	3.0	2.5	2.3	U2.5s	C	S	S	U1.3s	U1.5s	1.4	20
3.0	3 0	2.9	2.6	2.6	2.4	1.5	S	C	C	C	C	21
3 0	2.8	3.0	2.6	2.2	2.4	1.5	1 4	S	1 5	1.4	1 7	22
3.0	3.0	2.8	2.4	2.3	2.4	1.5	1.3	1.4	1.5	1 4	1.4	23
3 0	2.8	2.8	2.8	U2 0s	2.2	1.7	C	C	1 6	1.7	1.7	24
3.6	3.0	3 0	2.2	2 2	C	1.3	C	1.5	1 4	C	2.0	25
2.9	2.8	2.6	2.4	2.1	2 3	1.6	1.5	1.5	1.6	1.5	1.3	26
2.8	2.7	2 7	2 2	2.2	1.7	1.5	1.6	1.5	1 4	1.5	1.5	27
3.0	2.8	2 7	2.6	2.5	2 4	1.7	1.5	1 9	2 0	U1.8c	1 7	28
3 7	3.0	2.8	2.4	1 9	2 2	1 4	1.3	1.3	1.5	1.4	1.5	29
3 0	2 6	2.6	2.4	2.2	1 7	1.9	1 5	1.7	1.9	1.7	1.6	30
30	29	29	29	30	29	28	22	24	28	27	28	Count
3.0	3 0	2 9	2.5	2.3	2 3	1 5	1 5	1.4	1.5	1 5	1.5	Median
3.2	3 0	3.2	2.6	2.4	2.3	1.5	1.4	1 4	1.5	1.5	1.6	Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.



Characteristic : h'F2  
 Unit : Km  
 Month : April, 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
2								C	LC	LC	LC	LC
3								L	L	L	L	L
4								L	L	L	L	L
5									L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L <sub>H</sub>	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								LC	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	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	C	C
Count								.	..	.		.
Median									.	.	..	
Mean								..	..	..		.

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

Characteristic : h'F2  
 Unit : Km  
 Month : April, 1960

TABLE 40 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	B	B	L								1
L	L	L	C	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	A	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
u280L	L	L	L	L	L							21
L	L <sup>H</sup>	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				C			25
L	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
1	.	.	..	..	..							Count
.	.	..	..	.	..							Median
.	.	.	..	.	..							Mean

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

Characteristic : h'F2  
 Unit : Km  
 Month : April, 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							C	C	C	C	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L <sup>H</sup>	L	L	L
13							L	L	L	L	L	L
14								L	L	L	L	L
15								L	L <sup>H</sup>	L	L	L
16								L	L	L	L	L
17							L	L	C	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							C	C	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	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	C	L
Count							.	.	.	.	..	..
Median								..	..	..	..	..
Mean								.	..		.	.

Sweep 1.0 Mc to 25.0 Mc in 27 seconds,

Characteristic : h'F2  
 Unit : Km  
 Month : April, 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	B	L	L	L							1
L	L	C	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	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. in 25.0 Mc. in 27 seconds.

Characteristic : h'F  
Unit : Km  
Month : April, 1960

TABLE 41  
Ionospheric Data  
75° 0'E Mean Time

Latitude : 10·2°N  
Longitude : 77·5E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	290	340	410	280	E	E	310	250	255	230	220	210
2	C	C	C	C	C	C	C	C	C	C	C	210
3	245	225	220	215	220	E	240	230	220	215	210	U220B
4	250	250	245	240	220	205	250	235	230	215	200H	200H
5	260	260	215	220	245	340	265	250	B	B	B	U240B
6	290	280	260	225	220	220	260	240	230	225	220	210
7	270	255	220	245	300	320	260	240	230	210	210	200
8	300	F	F	320	260	240	260	240	225	205	205	210
9	255	255	240	225	210	215	260	240	230	220	205	200
10	240	240	240	225	210	220	260	230H	220	220	220	200
11	235	225	235	235	250	250	270	250	235	220	210H	220
12	250	265	260	240	235	220	260	245	230	230	220H	215
13	275	260	240F	220F	U230F	240	265	245	235	220	220	210
14	220	240	240	240	220	220	240	240	230	220	220	205
15	245	245	F	U250F	230	215	245	240	225	210	200	210
16	270	260	250	245	220	225	260	245	235	210H	205	205H
17	265	240	245	C	255	230	270	255	240	225	220	210
18	255	260	240	250	250	245	255	240	220	220	205H	210
19	235	240	240	250	225	225	255	240	230	220	220	200
20	240	230	240	230	220	220	255	240	225H	205	205H	200
21	230	230	240	240	240	230	260	240	230	215	210	205
22	C	C	C	C	C	C	C	C	220	210	220	220
23	260	250	270	250	220	210	250	240	220	220	210	200
24	250	230	230	C	230	260	250	250	235	230	220	220
25	265	265	260	240	240	270	265	250	240	230	220	220
26	260	275	250	240	220	220	260	C	C	210	200	200
27	240	260	250	240	205	210	260	240	220	215	210	200
28	240	240	200	220	230	E	240	240	235	220	220	210
29	260	280	300	300	265	220	260	240	240	B	B	B
30	220	240	260	225	210	220	240	240	220	220	C	C
Count	28	27	26	26	28	28	28	27	27	27	26	28
Median	250	250	240	240	230	225	260	240	230	220	210	210
Mean	255	255	250	245	235	235	260	240	230	220	210	210

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

Characteristic : h'F  
Unit : Km  
Month : April, 1960

TABLE 41 (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
220	230	B	B	B	270	305	C	C	C	C	C	1
U220B	210	B	C	235	250	270	290	280	265	250	245	2
U220A	205	215	210	225	250	270	300	290	270	240	235	3
200H	195	B	220	220	245	280	400	C	265	220	F	4
U235B	215	220	230	235	250	280	380	F	U380F	300	300	5
200	200	200	230	235	255	290	390	300F	F	290	260	6
210	205	225	215	225	250	285	U400F	F	F	F	255	7
200	A	A	215	230	245	280	F	F	F	F	260	8
200	200	210	210H	240	260	290	F	U320F	F	F	235	9
200	200	210	215	240	260	295	370F	320	260	270	245	10
210	220H	210H	220	235	255	295	U380F	F	U360F	U300F	245	11
205	205	220	235	A	265	295	U365F	370F	310	305F	280	12
215	215H	220	245	255	260	295	380	F	F	260	245	13
200H	200H	200	210	240	250	280	400	400F	360	320	260	14
205	220	215	225	245	265	280	360	F	U330F	300F	275	15
200	200	210	230	245	260	300	425	F	320	285	300	16
205	A	210	U220A	240	260	300	420	465	400	320	280	17
200	205	210	215	240	255	300	420	U410F	400F	350	240	18
200	200	205	200H	225	255	300	F	F	F	F	260	19
195	200	200	210H	235H	260	C	F	F	F	F	245	20
200	200	220	220	225	255	300	420s	C	C	C	C	21
210	215	210	215	220	250	295	F	380	350	F	260	22
200	200	205	220	240	250	285	400	400	400	300	240	23
210	210	220	230	240	260	285	C	C	325	300	280	24
210	220	220	220	240	C	290	360F	350	340	310	280	25
205	210	210	225	230	255	280	360	360	360	300	245	26
200	200	205	220	230	260	265	360	320	300	280	260	27
210	200	200H	220	240	260	300	300	265	260	C	260	28
B	205	220	240	240	260	280	350	290	280	250	230	29
220	220	210	200	240	260	260H	350	360F	320	200	220	30
29	28	26	28	28	29	29	23	17	21	21	27	Count
205	205	210	220	240	255	290	380	350	325	300	260	Median
205	205	210	220	235	255	285	375	345	325	285	255	Mean

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

Characteristic : h'F  
Unit : Km  
Month : April, 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	310	400	360	230	E	305	270	260	245	225	220	215
2	C	C	C	C	C	C	C	C	C	C	U230B	215
3	240	225	215	215	235	300	240	220	220	205	B	205
4	250	255	240	230	210	220	245	235	220	215	200H	200H
5	265	230	220	225	280	325	250	B	B	B	U240B	B
6	295	270	235	220	220	230	250	240	225	220	215	200
7	255	230	225	270	340	280	255	230	215	210	205	205
8	340	F	F	285	240	245	245	235	215	200	205	205
9	255	250	230	220	210	235	250	240	220	215	200	205
10	240	250	230	220	215	240	250	230	215	220	200	200
11	225	225	240	230	250	270	260	240	225	210H	210H	215H
12	255	265	245	235	225	235	255	240	230H	225	220	220H
13	275	250	230F	U220F	230	265	255	240	225	220	220	210
14	235	240	240	220	220	240	240	240	220	220	210	200H
15	240	255	255	240	220	230	245	230	220	210	215	210
16	265	260	250	220	230	240	245	240	220	205H	205H	200H
17	245	245	270	280	225	250	260	245	C	220	215	205
18	255	250	245	245	255	250	250	235	220	215	205	200
19	235	245	250	235	220	240	250	235	225H	220	210	200
20	235	235	240	225	225	250	250	235	220	205H	200	195
21	225	230	240	240	240	250	250	230	230	220	210	200
22	C	C	C	C	C	C	C	C	220	220	210	205
23	240	270	270	220	205	250	250	240	220	220	205	200
24	245	230	220	C	240	240	250	240	235	230	220	210
25	260	260	240	235	240	280	260	240H	235	230	220	210
26	280	260	240	225	230	250	C	C	220	200	200	205
27	260	260	240	215	205	245	240	220	220	220	210	200
28	240	200	220	220	240	260	240	240	230	220	220	210
29	270	280	310	280	240	240	250	240	240	B	B	B
30	220	260	250	205	200	250	240	220	220	220	C	220
Count	28	27	27	27	28	28	27	26	27	27	27	28
Median	250	250	240	225	230	250	250	240	220	220	210	205
Mean	255	255	245	235	235	255	250	235	225	215	210	205

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

Characteristic : h<sub>p</sub>F  
 Unit : Km  
 Month : April, 1960

TABLE 41 (Contd.)  
 Ionospheric Data  
 75°07'E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
230	230	B	B	270	285	340	C	C	C	C	C	1
215	205	C	230	240	260	280	285	265	260	240	245	2
205	205	205 <sub>H</sub>	230	230 <sub>H</sub>	260	285	300	280	260	240	240	3
190	200 <sub>H</sub>	215	C	235	260	330	C	F	235	265	F	4
U220 <sub>B</sub>	210	205	235	240	260	320	F	U440 <sub>F</sub>	U320 <sub>F</sub>	310	300	5
200	200	230	230	245	270	330	U370 <sub>F</sub>	F	F	260	270	6
200	205	215	225	240	270	345	F	U390 <sub>F</sub>	F	U260 <sub>F</sub>	260	7
200	U220 <sub>A</sub>	220	220	235	265	310	F	F	F	F	255	8
205	210	210	225	240	275	325 <sub>H</sub>	F	F	F	F	225	9
205	205	210	235	250	270	340	350	280	270	260	240	10
210	205 <sub>H</sub>	205 <sub>H</sub>	225	240	275	335	F	U360 <sub>F</sub>	U325 <sub>F</sub>	270	245	11
220 <sub>H</sub>	215	B	240	260	270	335	U385 <sub>F</sub>	340	U320 <sub>F</sub>	300 <sub>F</sub>	280	12
215 <sub>H</sub>	210 <sub>H</sub>	A	235	255	275	335	U405 <sub>F</sub>	F	U280 <sub>F</sub>	245	240	13
200 <sub>H</sub>	200 <sub>H</sub>	200	220	250	260	340	380 <sub>F</sub>	F	280	260	250	14
210	215	220	235	245	270	325	F	U340 <sub>F</sub>	325 <sub>F</sub>	U280 <sub>F</sub>	275	15
200	205	U210 <sub>A</sub>	235	245	270	350	F	F	310	300	280	16
205	205	U220 <sub>A</sub>	230	250	275	345	450	420	360	285	260	17
205	215	210	220	245	270	350	430	460 <sub>F</sub>	370	280	235	18
200	C	200 <sub>H</sub>	220 <sub>H</sub>	245	270	360	F	F	F	260	245	19
195	200	200 <sub>H</sub>	240 <sub>H</sub>	230	270	360	F	F	F	U250 <sub>F</sub>	240	20
200	200	220	220	240	270	360	F	C	C	C	C	21
215	215	220	205 <sub>H</sub>	240	270	340	410	440	320	280	260	22
200	200	200	240	240	255 <sub>H</sub>	340	420	400	F	270 <sub>F</sub>	250	23
210	220	220	230	240	265	325	C	C	315	285	280	24
210	220	220	U245 <sub>A</sub>	250	C	330	380 <sub>F</sub>	340	330	300	265	25
200	220	220	220	240	260	330	360	380	320	280	240	26
195	200	220	230	245	260	310	340	320	320	270	240	27
200	205	220	225	240	270	305	290	260	245	270	260	28
220	200	220	240	240	270	320	340	280	260	240	225	29
210	210	200	220	240	260	U280 <sub>H</sub>	400	320	240	200	240	30
30	29	26	28	30	29	30	17	18	21	26	27	Count
205	205	215	230	240	270	330	380	340	315	270	250	Median
205	210	215	230	245	270	330	370	350	300	270	255	Mean

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



Characteristic : h'E  
 Unit : Km  
 Month : April, 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								110	A	A	A	Λ
2							C	C	C	C	C	A
3								105	A	A	105	B
4								120	A	A	A	A
5								B	B	B	B	B
6								120	A	A	A	A
7								A	A	A	A	A
8								A	A	A	A	A
9								110	A	A	A	A
10								A	A	A	A	A
11								115	A	A	A	A
12								125	A	A	A	A
13								A	A	A	A	A
14								120	110	A	A	A
15								130	A	A	A	A
16								A	A	A	A	A
17								110	A	A	A	A
18								120	110	A	A	A
19								115	110	110	A	A
20								110	A	A	A	A
21								120	110	A	A	A
22							C	C	120	120	A	120
23								120	110	A	A	A
24								120	120	110	A	A
25								120	110	A	A	B
26								C	C	A	A	A
27							140H	A	A	A	A	A
28								120	110	A	A	A
29								120	B	B	B	B
30								110	110	120	C	C
Count							1	20	10	4	1	1
Median							..	120	110		.	..
Mean							..	115	110	.		..

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

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

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

Characteristic : h'E  
 Unit : Km  
 Month : April, 1960

TABLE 42 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10.2° N  
 Longitude : 77.5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							125	A	A	A	A	A
2							C	C	C	B	B	A
3								105	A	A	A	A
4								115	A	A	A	A
5								B	B	B	B	B
6								120	A	A	A	A
7								A	A	A	A	A
8							130	A	A	A	A	A
9								A	A	A	A	A
10							A	A	A	A	A	A
11								115	A	A	A	A
12								125	A	A	A	A
13								A	A	A	A	A
14							130	120	A	A	A	A
15								A	A	A	A	A
16							130	A	A	A	A	A
17							150	A	A	A	A	A
18							120	120	A	A	A	A
19							120	110	110	A	A	A
20							120	A	A	A	A	A
21							120	110	A	A	A	A
22							C	C	A	A	A	A
23								120	A	110	A	A
24								120	B	A	A	A
25								130	110	A	B	B
26							C	C	110	A	A	A
27							120	A	A	A	A	A
28								120	A	A	A	A
29							120	B	B	B	B	B
30							120	110	110	A	C	A
Count							12	14	4	1	..	..
Median							120	120	..	..	..	..
Mean							125	115	..	..	..	..

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

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

TABLE 42 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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

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

TABLE 43  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								G	100	100	100	100
2	C	C	C	C	C	C	C	C	C	C	C	100
3		120						G	100	100	125	100
4	105							G	100	100	100	100
5	160					105		G	B	100	100	100
6								100	100	100	100	100
7		105		110				105	100	100	100	100
8	115							100	100	100	100	100
9	100							G	100	100	100	100
10								100	100	100	100	100
11				110				G	100	100	100	100
12				145				100	100	100	100	100
13								100	100	100	100	100
14						100		G	130	100	100	100
15		115	115	105	100			100	100	100	100	100
16	110							100	100	100	100	100
17				C	100			100	100	100	100	100
18								100	100	100	100	100
19								100	100	100	100	100
20	120							G	100	100	100	100
21								100	100	100	100	100
22	C	C	C	C	C	C	C	C	100	100	100	100
23								100	100	100	100	100
24				C				G	G	100	100	100
25						105		100	100	100	100	100
26								C	C	100	100	100
27							G	100	100	100	100	100
28								110	G	100	100	100
29								G	100	100	100	100
30			100					120	G	G	C	C
Count	6	3	2	4	2	3	..	17	24	28	28	29
Median	110	..	..	.	.	.	.	100	100	100	100	100
Mean	120	..	..	.	..	.	.	100	100	100	100	100

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

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

TABLE 43 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

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

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

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

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

TABLE 43 (Contd.)  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							G	100	100	100	100	100
2	C	C	C	C	C	C	C	C	C	C	C	C
3	115	115						100	100	100	B	100
4	105							105	100	100	100	100
5					110			B	B	100	100	100
6			115					100	100	100	100	100
7	115	105	100	105				105	100	100	100	100
8							125	100	100	100	100	100
9								100	100	100	100	100
10							100	100	100	100	100	100
11								G	100	100	100	100
12								100	100	100	100	100
13								100	100	100	100	100
14							G	120	100	100	100	100
15		110	110	100	100		100	100	100	100	100	100
16							G	100	100	100	100	100
17			105	105			G	100	C	100	100	100
18							G	100	100	100	100	100
19							G	100	100	100	100	100
20							G	100	100	100	100	100
21							G	100	100	100	100	100
22	C	C	C	C	C	C	C	C	100	100	100	100
23								100	100	100	100	100
24				C				G	100	100	100	100
25								100	100	100	100	100
26							C	C	100	100	100	100
27							G	100	100	100	100	100
28								G	100	100	100	100
29							G	G	100	100	100	100
30							G	G	G	100	C	100
Count	3	3	4	3	2	..	3	21	26	29	28	30
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 : April 1960

TABLE 43 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

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

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

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.



Characteristic : (M 3000)F2  
 Unit : ..  
 Month : April 1960

TABLE 44  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.80	2.70	2.20	3.00	E	E	2.65	3.00	2.50	2.75	2.35	U2.25R
2	C	C	C	C	C	C	C	C	C	C	C	2.50
3	3.00	3.15	3.30	3.35	3.50	E	3.40	3.40	3.20	2.80	2.45	2.10
4	2.90	3.00	3.20	3.25	3.40	3.50	3.30	3.30	2.90	2.50	2.30	2.40
5	U3.00F	U3.15F	U3.25F	F	F	F	F	3.10F	2.80	2.40	2.50	2.50
6	F	F	F	F	U3.25F	F	U3.20F	3.05	2.80	2.35	2.30	2.30
7	3.10	3.30	3.35	3.15	2.70	2.45	3.20	2.90	2.65	2.20	2.45	2.30
8	F	F	F	F	F	F	F	U3.00F	2.60	2.45	2.35	2.30
9	F	F	F	2.90	3.25	3.45	3.05	2.90	2.65	2.30	2.30	2.40
10	Fs	Fs	Fs	F	3.40	U3.40F	3.10	2.75	2.45	2.40	2.30	2.55
11	3.20	3.20	3.15	3.30	3.25	3.30	3.10	3.20	2.90	2.45	2.40	2.40
12	F	U2.85F	U2.90F	3.10	3.15	3.40	3.10	3.10	3.00	2.40H	2.25H	2.20
13	U3.00F	3.10	F	F	F	3.40	3.15	2.90	2.40	2.45	2.30	2.50
14	F	F	3.10	3.20	3.30	3.40	3.30	3.35	3.10	2.80	2.40	U2.15RH
15	F	F	F	3.30F	3.30	3.30	3.20	3.10	2.85	2.35	2.15	2.60
16	2.95	F	F	3.10	3.30	3.50F	3.30	3.15	2.85	2.50	R	2.35
17	2.50	3.00	3.00	C	2.95	3.20	3.00	2.90	2.70	2.45	2.20	2.20
18	3.10	F	U3.05s	3.10	3.00	2.95	3.15	2.95	2.50	2.40	2.35	2.35
19	3.00	3.00	3.00	3.00	3.30	3.30	3.20	3.05	2.70	2.45	RH	2.35
20	3.00	3.10	F	3.20	3.30	3.50F	3.25	3.10	2.80	2.40	2.35	2.35
21	F	F	2.95	F	3.20	3.30	3.20	3.00	2.65	2.25	2.35	2.35
22	C	C	C	C	C	C	C	C	U2.70s	2.25	2.35	2.25
23	F	U2.90s	F	3.10	U3.25ES	F	U3.20F	3.10	2.70	2.20H	2.35	2.35
24	3.00	F	F	C	3.30	2.75	3.20	3.10	3.00	2.70	2.30	WH
25	3.05	2.95	2.95	3.20	3.10	2.95	3.15	3.20	3.00	2.70	2.25	2.25
26	U2.80s	2.80	2.90	3.10	3.15	U3.35s	3.05	C	C	2.35	2.20	2.40
27	U3.00s	2.95	U3.05F	3.10	3.30	3.40H	3.10	2.90	2.60	2.35	2.45	2.40
28	3.10	3.20	3.50	3.35	3.40	E	3.30	3.40	3.15	2.70	2.55	2.15
29	3.00	U2.90s	2.70	2.70	3.00	3.25	3.10	3.10	3.00	2.50	2.50	2.45
30	3.20	U3.00s	3.10	3.30	3.40	3.70	3.40	3.30	U3.10s	2.95	C	C
Count	19	18	18	20	24	21	26	27	28	29	26	29
Median	3.00	3.00	3.05	3.10	3.30	3.35	3.20	3.10	2.80	2.45	2.35	2.35
Mean	3.00	3.00	3.05	3.15	3.25	3.25	3.15	3.10	2.80	2.45	2.35	2.35

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : (M3000)F2  
 Unit : ..  
 Month : April 1960

TABLE 44 (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
2 50	2 40	B	2 40	2 40	2·20H	2·00H	C	C	C	C	C	1
2 40	2 45	2 45	C	2 25	2 20	2 35	2 50	2 55	2·65	2 65	2 85	2
2 40	2 55	2 45	2 50	2 40H	2·35H	2·30	2·25	2·35H	2·60	2 75	2·85	3
2 40	2 45	2·45	2 40	2 60	2 60	2·45	2·25	C	F	F	F	4
2 30	2 30	2 40	2·35	2 30	2·35	2·30	2 25	F	F	F	F	5
2 40	2 30	2 35	2 50	2 60	2 65	2 45	2 30	F	F	F	2·90	6
2 30	2 25	2 30	2 35	2·35	2 35	2·20	u2 05F	F	F	F	F	7
2 20	2·35	2 40	2 55	2 55	2·55	2·40	2·30	F	F	F	F	8
2 35	2 40	2 30	2·40	2 40	2 35	2·30	2·05	F	F	F	F	9
2 30	2 45	2 35	2 40	2·45	2 40	2 30	2·15	2·25	2·55	2 75	3·05	10
2·40	2·35	2 30	2·40	2·55	2 50	2·40	2·20	2·20	F	2 60	u2·70F	11
2 25	2 30	2·40	2 50	2 60	2 60	2 50H	2 30	2·35	2·60	2·80	2·90	12
2 40	2·40	2 45	2 50	2·40	2·35H	2·10	2 00	F	u2·30F	u2·65F	u3 00F	13
2·30	2 35	2 40	2 30	2 40	2 40	2 35	2·10	F	F	F	F	14
2·40	2 35	2 25	2 25	2 40	2·35	2 40	j2·25R	2·35	2 50	2 65	2 75	15
2 25	2·25	2 20	2·25	2 25	j2·30s	2·20	2·00	F	F	F	F	16
2·25	2·20	2 20	2 30	2·40	2 35	2·25	2 05	F	F	F	F	17
2 30	2 35	2 30	2 30	2·25	2 15	2·10	u2 10F	2·10F	2·20	F	2·80	18
2 35	2 25	2 30	2 35	2 30	2·35	2 15	F	F	F	F	u3 05s	19
2 35	2·20	2·15	2 25	2 30	2·30	C	u2 05s	F	F	F	F	20
2·30	2 20	2 25	2·30	2·30	2·30	2 10	1·85W	C	C	C	C	21
2·20	2 35	2 40	2 45	2 45	2 40	2 20	F	F	F	F	F	22
2·40	2·35	2 30	2·45	2 50	2·50	2·30H	2·10	F	F	F	F	23
2 20	2 20	2 35	2 35	2 45	2 35	2 40	C	C	2·45	2·60	2·90	24
2·35	2 35	2 35	2 40	2 45	C	2 25	u2·10s	F	2·35	u2·50Fs	2·85	25
2·35	2·35	2 35	2·50	2 60	u2·60R	2·50	Fs	u2·20F	F	F	F	26
2 40	2 40	2 50	2·60	2·65	2 70	2·60	2 40	2 35F	u2 50F	F	u2·85s	27
2·40	2 50	2 40	2 45	2·65	2·60	2 40	2·40	2·60	j2·70R	C	2·90	28
2 30	2·35	2·40	2·40	2 35	u2 15s	2·20	u2·30s	2·40	2·50	u2·80s	u2 90s	29
2·30	2·25	2 40	2 40	2 30	2·40	u2 35s	2·10	2·15	u2 30F	3·20	u2·50SH	30
30	30	29	29	30	29	29	25	12	13	11	16	Count
2 35	2·35	2·35	2 40	2·40	2 35	2 30	2·15	2·35	2·50	2·65	2·90	Median
2·35	2 35	2·35	2 40	2·45	2·40	2·30	2·20	2·30	2·50	2·70	2·85	Mean

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

Characteristic : (M3000)F2  
 Unit : ..  
 Month : April 1960

TABLE 44 (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	2·85	2·40	2 30	3 25 <sub>R</sub>	E	2·30	2·85	2·65	2·05 <sub>H</sub>	2·85	2·35 <sub>R</sub>	2·40
2	C	C	C	C	C	C	C	C	C	C	2 55	2·45
3	3·10	3 20	3 30	3·40	3·55	2·80	3 40	3 30	3·00	2·60	2 30	2 30
4	3·00	3 10	3 15	3 30	3 40	3 50	3 30	3 10	2 80	2 30	2 35	2 45
5	F	F	F	F	F	F	3 20	3·00	2 45	2 40	2·55	2 35
6	F	F	F	F	F	F	3 05 <sub>F</sub>	2·90	2 60	2 10	2 40	2·35
7	3 15	3 25	3 30	3 00	2 60	2·90	3 05	2 80	2 45	2 30	2 40	2 25
8	F	F	F	2·65 <sub>F</sub>	F	F	3·10 <sub>R</sub>	2 80	2 45	2 40	2 35	2 25
9	F	F	F	3 15	3·35	3 15	3 00	2·85	2 45	2 25	2 40	2·35
10	F	F	3·05 <sub>F</sub>	F	3·50 <sub>F</sub>	2·95 <sub>RH</sub>	3 00	2 65	2 35	2 25	2 55	2 40
11	3 20	3 10	3·15	3·40	3 20	2·70	3·15	3 00	2 60	2·05 <sub>H</sub>	2 40	2·35
12	2·90 <sub>F</sub>	2·80 <sub>F</sub>	3 00	3·15 <sub>F</sub>	3·20	3 30	3·20	3·10	2 70	2 25 <sub>H</sub>	2 35	2 30
13	3 05	3·10	F	F	3 40 <sub>F</sub>	2·85	3 05	2 60	2 50	2 35	2 45	2 50
14	F	3·20 <sub>s</sub>	3·20	3·25	3·30	3 05	3 40	3 25	2 95	2 60	2·30	2 10 <sub>H</sub>
15	F	F	F	3 25	3 30	3·30	3·15	3 10	2 55	2 05	2 50	2 45
16	3 00	F	3 05	3·20 <sub>s</sub>	F	3·15	3 20	3 05	2 70	2·30	2·30	2·15
17	2 85	3 00	2·90	2 85	3·20	3·00	3·05	2 80	C	2·25	2 15	2 30
18	3·00	3·00	F	3 10	2·90	3·10	3·15	2 75	2 30	2·40	2·40	2·25
19	3·00	3·05	3 00	3·10	3·20	3 20	3·15	2 95	2 60	2·20	2·30	2 40
20	3·10 <sub>F</sub>	3 10	3 10	3 20	3·30	3·30 <sub>F</sub>	3·25	2·95	2·50	2 30	2 30	2 35
21	F	F	F	F	3·25	2·85	3·10	2 80	2 45	2 30	2 30	2 30
22	C	C	C	C	C	C	C	C	2 50	2 40	2·35	2·25
23	F	F	F	F	F	F	3·20 <sub>s</sub>	2 90	2 50 <sub>H</sub>	2 30	2 35	2·30
24	F	F	3·30	C	2·80 <sub>RH</sub>	2·95	3 30	3 10	2 95	2 45	2 10	2 15
25	3 00	2·90	3·00	3 30	3 05	3 10	3·30	3·20	2 85	2·50	2 05 <sub>H</sub>	2 20
26	2·80	2·90	3·05	3·10	3·25	3·00	C	C	2·55	2·15 <sub>R</sub>	2·40	2·35
27	2 90	3·00 <sub>rs</sub>	F	3 30	3·40	3·10	3·05	2 80	2 40	2 45	2 50	2·50
28	3·10	3·30	3·50	3·35	3 40	3·20	3·40	3 30	2 95	2 70	2 35	2 00 <sub>H</sub>
29	2·90	2·80	2·65	2·75	3·10	3 10	3·20	3 10	2 75	2 20 <sub>RH</sub>	2·50	2·40
30	3·10	3·00 <sub>s</sub>	3 15	3·50	3 60	2·90	3 35	3 10	3 00	2 85	C	2·40
Count	18	18	18	21	22	24	27	27	29	29	29	30
Median	3 00	3·00	3·10	3 20	3 30	3·10	3 15	2 95	2 55	2 30	2 35	2 35
Mean	3 00	3 00	3·05	3·15	3·25	3·05	3·15	2 95	2 60	2 35	2·35	2 30

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

Characteristic : (M3000)F2  
 Unit : ..  
 Month : April, 1960

TABLE 44 (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
u2.40w	2.25	R	2.45	2.25	2.10H	1.95	C	C	C	C	C	1
2.40	2.50	C	2.25	2.20	2.35	2.45	2.50	2.55	2.55	2.70	2.90	2
2.50	2.45	2.50	2.45H	2.35	2.25	2.25	2.35H	2.50	2.65	2.85	2.90	3
2.40	2.45	2.40	C	2.60	2.50	2.35	C	F	F	F	F	4
2.30	2.30	2.40	2.35	2.35	2.35	2.30	2.10	F	F	F	F	5
2.35	2.40	2.45	2.55	2.60	2.55	2.35	F	F	F	F	3.05	6
2.30	2.30	2.40	2.40	2.40	2.30	2.10	F	F	F	F	F	7
2.25	2.40	2.50	2.55	2.60	2.60	2.40	F	F	F	F	3.05	8
2.40	2.30	2.30	2.40	2.40	2.40	2.15	F	F	F	F	Fs	9
2.40	2.40	2.40	2.45	2.50	2.40	2.15	2.15	2.40	2.60	2.95	3.10	10
2.35	2.35	2.35	2.50	2.50	2.40	2.30	2.20	u2.30F	2.50F	u2.70s	F	11
2.25	2.30	2.45	2.55	2.60	2.50H	2.40	2.30	2.40	2.65	u2.80F	2.95	12
2.40	2.40	2.50	2.45	2.40	2.20	2.05	F	F	u2.45F	F	F	13
2.30	u2.40s	2.35	2.35	2.40	u2.40R	u2.25s	F	F	F	F	F	14
2.30	2.20	2.25	2.30	2.35	2.35	2.35	u2.35R	2.40	2.60	2.70	u3.00s	15
2.20	2.20	2.20	2.30	2.25	u2.30s	2.15	F	F	F	u2.60F	2.70	16
2.20	2.20	2.30	2.35	2.35	2.30	u2.15s	2.05	F	2.20	F	2.85	17
2.35	2.35	2.35	2.25	2.20	u2.15s	u2.10s	2.05F	F	F	u2.60F	2.90	18
2.30	C	2.30	2.35	2.30	2.25	u2.05s	F	F	F	u2.60F	F	19
2.30	2.15	2.20	2.30	2.25	2.35	2.10	F	F	F	F	3.15	20
2.25	2.20	2.30	2.45	2.35	2.25	2.00	F	C	C	C	C	21
2.30	2.35	2.40	2.45	2.45	2.35	2.10	F	F	F	F	F	22
2.40	2.35	2.40	2.50	2.50	2.45	2.20	F	F	F	F	F	23
2.15	2.30	2.35	2.45	2.35	2.40	2.45	C	C	2.55	2.85	3.00	24
2.40	2.35	2.30	2.45	2.40	C	2.20	F	u2.25F	F	u2.75s	u2.80s	25
2.40	2.30	2.50	2.55	2.65	2.60	2.35	u2.25F	F	F	F	u3.00s	26
2.40	2.40	2.55	2.60	2.70	2.60	2.40	2.30	2.40F	F	u2.70F	3.00	27
2.45	2.50	2.45	2.65	2.65	u2.60R	2.35	2.50	2.65	2.80	2.85	2.90	28
2.25	2.40	2.35	2.40	2.25	2.15	2.20	2.30	2.45	2.60	u2.80s	3.00s	29
2.20	2.40	2.40	2.30	2.30	2.40	u2.25s	2.10F	S	u2.75s	3.30	2.60	30
30	29	28	29	30	29	20	14	10	12	15	18	Count
2.30	2.35	2.40	2.45	2.40	2.35	2.20	2.30	2.40	2.60	2.75	3.00	Median
2.35	2.35	2.40	2.45	2.40	2.35	2.25	2.25	2.45	2.60	2.80	2.95	Mean

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

Characteristic : foF2  
Unit : Mc  
Month : May, 1960

TABLE 45  
Ionospheric Data  
75°0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	11.2	5.9	36.4 <sub>F</sub>	F	F	E	6.5	9.4	10.6	11.4	11.2	11.2
2	8.1	7.8	7.8	9.1	9.9	7.9	8.6	10.4	12.2	12.7	11.4	11.4
3	10.2 <sub>F</sub>	8.3	8.6	8.8	8.8	7.2	8.5	10.6	12.2	12.2	11.8	C
4	F	F	10.1	8.6	6.5	4.1	7.3	10.2	11.0	11.7	11.0	11.3
5	F	F	F	F	U6.9 <sub>F</sub>	6.6	8.5	10.2	11.4	10.8	10.1	10.2
6	U10.8 <sub>F</sub>	10.4	9.9	9.0	7.5	5.5	6.9	9.4	10.8	10.0	9.5	9.9
7	U10.5 <sub>F</sub>	10.5	9.5	9.2	8.1	7.9	9.7 <sub>H</sub>	10.3 <sub>H</sub>	10.8	12.0	11.8	11.1
8	10.8	10.3	10.3	9.6	7.2	5.2	8.2	10.4	11.4	11.3	10.6	10.9
9	F	U6.8 <sub>s</sub>	F	F <sub>s</sub>	F	4.8	7.6	10.2	11.8	12.4	12.5	12.5
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	4.2	2.8	C	C	C	C	C	C
13	11.3	10.0	9.7	9.7	6.9	4.3	7.7	10.6	11.5	11.5	10.4	B
14	F	F	F	F	7.2	5.2	7.2	10.0	11.8	11.5	9.9	9.8
15	9.9	8.9	9.0	8.9	8.4	6.3	8.0	10.3	11.5	12.6	11.8	11.1
16	10.0	8.9	8.6	8.6	8.6	6.5	8.0	10.0	11.3	11.4	10.3	9.9
17	U7.3 <sub>F</sub>	F	F	F	U5.7 <sub>F</sub>	6.2	U7.7 <sub>F</sub>	10.7	11.6	11.9	12.3	11.4
18	10.0	9.1	8.0	7.0	4.8	3.6	7.0	9.7	11.0	11.3	11.0	10.6
19	F	F	F	F	F	5.4	7.4	9.6	10.9	11.1	10.5	11.2
20	F	F	F	F	F	F	U8.7 <sub>F</sub>	10.3	11.5	11.1 <sub>H</sub>	9.6	9.4
21	8.8	8.1	8.3	8.4	8.0	5.3	7.5	9.3	10.6	10.5	9.6	9.3
22	7.6	7.0	6.8	C	C	C	C	C	C	C	9.6	9.8
23	F	7.6	7.2	6.6	6.8	5.5	7.0	9.7	9.9	9.8	9.0	9.4
24	F	C	C	C	C	C	C	C	C	11.6	11.8	11.0
25	10.8	9.2	7.6	7.6	U6.4 <sub>SH</sub>	2.8 <sub>H</sub>	6.9	9.9	11.4	11.8	11.8	12.2
26	F	F	F	F	U5.3 <sub>F</sub>	3.4	6.6	9.2	10.9	11.4	10.8	10.8
27	F	8.0	6.8	U6.2 <sub>s</sub>	6.0	4.2	7.1	9.6	10.3	11.4	11.8	12.1
28	6.8	U5.1 <sub>s</sub>	F	F	F	4.2	7.4	10.0	11.6	11.8	11.1	10.4
29	F	8.4	U8.0 <sub>F</sub>	5.6	4.2	F <sub>H</sub>	U7.1 <sub>s</sub>	9.0	10.0	11.3	11.4	11.3 <sub>H</sub>
30	F	F	F	F	F	F	U7.0 <sub>F</sub>	9.9	11.2	11.8	C	C
31	10.8	9.8	8.5	7.9	7.0	6.8	6.7	9.6	11.0	11.8	11.7	11.0
Count	16	19	18	16	21	24	26	26	26	27	27	25
Median	10.1	8.4	8.4	8.6	6.9	5.2	7.4	10.0	11.2	11.5	11.0	11.0
Mean	9.7	8.4	8.4	8.2	6.9	5.3	7.6	10.0	11.2	11.5	10.9	10.8

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

Characteristic : foF2  
 Unit : Mc  
 Month : May, 1960

TABLE 45 (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
10.8	11.0	11.4	11.0	10.9	10.7	9.6	9.0	7.9	F	8.5	8.6	1
11.3	11.0	10.8	11.2	11.8	12.2	12.2	10.8	10.6	10.2	F	10.2	2
C	10.6	10.4	10.4	10.6	10.4	10.4	9.5	F	F	F	F	3
11.4	11.8	12.7	13.1	13.3	13.5	12.8	10.8	F	F	F	F	4
10.7	11.0	11.6	12.4	12.7	12.6	12.6	11.4	C	C	F	F	5
9.8	10.1	10.5	10.2	10.7	11.0	C	10.4	F	F	U8.5s	F	6
11.7	12.2	13.3	13.8	13.8	14.0	13.6	C	C	11.9	12.5	11.7	7
11.5	12.0	12.3	12.1	13.1	13.5	12.7	F	F	F	F	F	8
12.7	13.1	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	14.3	C	C	C	10.8	C	C	12.9	11
C	12.3	12.9	13.8	14.6	14.2 <sup>H</sup>	13.8 <sup>H</sup>	U12.2 <sup>H</sup>	U9.8 <sup>F</sup>	10.7	11.3	12.1	12
10.8	11.0	10.9	11.2	11.8	12.3	12.4	U11.1 <sup>F</sup>	F	F	U11.0 <sup>F</sup>	F	13
10.1	9.9	10.0	10.7	11.6	12.0	11.8	11.6	11.0	U11.6 <sup>s</sup>	11.8	11.6	14
10.7	10.5	10.4	10.6	10.6	10.8	11.2	11.1	10.5	U9.8 <sup>F</sup>	10.0	10.5	15
9.9	10.4	10.6	10.7	11.0	11.4	11.6	10.8	U10.0 <sup>F</sup>	10.4	10.4 <sup>F</sup>	F	16
11.8	13.2	14.0	14.2	14.3	14.7	14.0	12.7	F	F	F	F	17
C	11.7	11.8	12.2	12.4	12.6	12.5	U11.6 <sup>s</sup>	F	F	F	F	18
11.8	12.6	12.8	13.7	13.8	14.2	13.6	11.7	F	F	F	F	19
9.7	9.7	10.4	C	11.5	11.7	12.8	12.2	11.5	10.7	10.2	9.5	20
9.1	9.4	9.8	10.4	A	12.3	12.0	C	10.6	F	9.1	8.7	21
10.0	10.0	10.0	10.5	10.6	10.9	11.1	10.6	F	F	F	F	22
9.6	C	C	9.8	10.6	11.0	11.3	C	10.8	F	F	F	23
10.2	C	C	C	C	U12.2 <sup>s</sup>	11.5	C	11.0	11.2	U12.0 <sup>s</sup>	U11.6 <sup>s</sup>	24
12.6	12.7	12.6	11.8	11.6	10.8	10.5	U9.4 <sup>s</sup>	F	F	F	F	25
10.6	9.8	10.2	10.3	10.5	10.6	11.0	10.6	10.2	9.7	F	F	26
11.1 <sup>H</sup>	U10.4 <sup>W</sup>	9.4	9.5	10.1	10.8	11.4	10.9	U9.6 <sup>s</sup>	8.9	F	8.0	27
10.3	10.5	11.0	11.2	11.6	12.6	U12.2 <sup>s</sup>	U11.9 <sup>s</sup>	10.8	U10.0 <sup>F</sup>	F	F	28
9.9	9.6	10.2	10.9	11.7	13.0	12.7	11.6	F	U9.0 <sup>s</sup>	F	F	29
11.6	10.8	10.7	10.8	10.7	11.4	11.6	11.8	11.4	F	10.8	11.4	30
10.5	10.3	10.7	10.7	11.3	12.2	12.8	U12.0 <sup>s</sup>	11.1	U10.3 <sup>F</sup>	10.2	10.3	31
26	27	26	26	27	28	27	23	16	13	13	13	Count
10.7	10.8	10.8	11.0	11.6	12.2	12.2	11.1	10.7	10.3	10.4	10.5	Median
10.8	11.0	11.2	11.4	11.9	12.1	12.1	11.1	10.5	10.3	10.5	10.5	Mean

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

Characteristic : foF2  
Unit : Mc  
Month : May, 1960

TABLE 45 (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	9.0	6.2	F	F	E	4.2	8.1	10.2	11.0	11.0	11.2	11.0
2	8.0	7.6	8.1	9.6	9.1	7.6	9.6	11.7	12.7	12.4 <sup>H</sup>	11.4	11.4
3	9.2	8.4	8.8	8.9	8.6	6.7	9.6	11.6	12.2	12.1	11.4	11.3
4	F	10.3	9.5	7.8	5.1	5.4 <sup>H</sup>	8.8	10.9	11.6	11.0	11.1	11.4
5	F	F	F	U7.3 <sup>F</sup>	6.8	7.0	9.4	11.0	11.2	10.3	10.1	10.4
6	10.7	10.5	9.3	8.1	6.4	5.6	8.4	10.3	10.7	9.2	9.8	9.9
7	10.5	10.1	9.9	8.5	7.8	8.2 <sup>H</sup>	10.3 <sup>H</sup>	10.7	11.3	12.2	11.3	11.5
8	10.5	10.4	10.2	8.1	5.8	6.1	9.7	11.0	11.3	11.0	10.6	11.3
9	F <sub>s</sub>	F	F <sub>s</sub>	F	5.3	6.1	8.8	11.1	12.3	12.7	12.3	12.6
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	3.2	C	C	11.2	C	C	C	C
13	10.8	9.8	9.6	8.5	5.6	5.7	9.6	11.2	11.8	10.8	B	10.7
14	F	F	F	U7.8 <sup>F</sup>	6.0 <sup>H</sup>	5.7	8.6	10.8	11.7	10.9 <sup>H</sup>	9.7	9.9
15	9.3	8.8	8.9	8.8	7.2	6.4	9.5	11.0	12.0	12.3	11.4	10.8
16	9.3	9.0	8.6	8.7	7.9	6.6	9.4	10.8	11.5	11.6	9.9	10.0
17	U6.5 <sup>F</sup>	F	F	F	U5.7 <sup>F</sup>	6.9	9.4	11.1	11.6	12.4	11.7	11.5
18	F	8.6	7.5	5.8	4.2	5.2	8.4	10.5	11.1	11.2	10.6	10.7
19	F	F	F	F	6.6	5.7	8.8	10.7	11.1	10.8	10.8	11.6
20	F	F	F	F	F	F	9.4	11.0	11.3	10.2	9.6	9.6
21	8.5	7.9	8.2	8.2	7.1	5.6	8.5	10.0	10.7	10.2	9.3	9.2
22	U7.3 <sup>S</sup>	6.8	C	C	C	C	C	C	C	C	9.8	10.0
23	7.6 <sup>F</sup>	7.1	6.8	6.8	6.5	5.6	8.5	9.7	10.0	9.3	9.2	9.4
24	F	C	C	C	C	C	C	C	11.7	12.2	11.6	10.8
25	10.4	8.3	7.5	7.6	3.6	4.9	8.8	10.8	11.8	11.8	12.0	12.4
26	F	F	F	F	4.6	5.0	8.4	10.2	11.1	11.0	11.0	10.8
27	U8.8 <sup>F</sup>	7.1	6.6	U6.1 <sup>S</sup>	5.6	5.5	8.7	10.0	10.8	11.6	12.2	11.6
28	5.8	4.8 <sup>F</sup>	F	F	F	5.6	9.0	11.0	11.6	11.8 <sup>H</sup>	10.6	10.2
29	F	8.2	7.6	4.8	3.8	5.4	8.1	9.3	10.5	11.6	11.4 <sup>H</sup>	11.0 <sup>H</sup>
30	F	F	F	F	F	F	U8.4 <sup>F</sup>	10.2	11.7	12.0	12.5	11.8
31	10.4	9.1	8.3	7.4	6.7	7.1 <sup>H</sup>	8.4	10.2	11.6	11.8	11.4	10.8
Count	17	19	16	18	24	24	26	27	27	27	27	28
Median	9.2	8.4	8.4	8.0	5.9	5.7	8.8	10.8	11.5	11.6	11.1	10.8
Mean	9.0	8.4	8.5	7.7	6.0	6.0	8.9	10.7	11.4	11.3	10.9	10.8

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

Characteristic : foF2  
Unit : Mc  
Month : May, 1960

TABLE 45 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date.
10.9	11.2	11.2	10.8	10.9	10.3	9.5	8.5	F	F	8.8	8.5	1
11.0	11.0	10.8	11.4	12.2	12.2	11.6	10.4	10.2	9.6	u10.2F	11.0	2
11.0	10.4	10.3	10.6	10.4	10.4	10.1	9.0	F	F	F	F	3
11.6	12.2	13.0	13.1	13.4	13.3	12.1	Fs	F	F	F	F	4
10.6	11.3	11.7	12.6	12.6	12.6	12.2	11.0	C	C	F	F	5
9.9	10.0	10.3	10.4	10.7	C	C	9.5	F	F	F	10.3	6
11.8	12.7	13.7	13.9	14.1	13.8	13.2	C	C	12.4	12.0	11.7	7
11.6	12.6	12.0H	12.7	13.3	13.3	11.5	F	F	F	F	F	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	13.8	13.3	u12.4c	C	C	C	12.5	C	11
C	12.5	13.6	14.6	14.2	14.4H	13.1	F	u9.8F	11.0	11.6	12.0	12
11.1	10.9	11.0	11.6	11.8	12.7	11.7	F	F	u11.0F	F	F	13
10.0	9.9	10.3	11.3	11.7	12.0	12.0	11.1	11.0	11.6	u12.0s	10.8	14
10.6	10.5	10.3	10.5	10.7	11.0	11.2	10.8	10.0	9.8	10.4	10.6	15
10.0	10.6	10.7	10.8	11.2	11.4	11.6	10.4	10.0	10.4	F	F	16
12.6	13.9	13.7	14.5	14.6	13.9	13.6	F	F	F	F	10.2	17
11.1	11.9	12.0	12.3	12.4	12.7	u11.9s	F	F	F	F	F	18
12.4	12.8	13.5	13.6	13.9	u14.1s	12.9	11.1	F	F	F	F	19
9.6	10.1	10.6	11.1	11.3	12.0	12.6	u11.9F	11.0	10.4	9.9	8.9	20
9.3	9.6	10.0	10.6	11.6	12.3	12.0	11.0	F	9.2F	9.1	8.3	21
10.0	10.2	10.3	10.6	10.7	11.0	11.0	10.0	F	F	u8.6F	F	22
C	C	9.6	10.2	10.7	11.2	11.2	11.0	10.2	u9.8Fs	F	F	23
C	C	C	C	u12.0s	u11.7s	11.4	11.0	11.2	11.8	u12.0s	11.5	24
12.4	12.6	12.6	11.6	10.8	10.8	10.4	u9.0F	F	F	F	F	25
10.2	10.2	9.8	10.4	10.4	11.0	10.8	10.4	9.9	9.8	F	F	26
u10.8w	9.8	9.4	9.8	10.6	11.2	11.4	10.6	9.3	8.8	F	u7.7s	27
10.4	10.7	11.2	11.5	12.2	12.4	u12.0s	11.3	u10.2F	F	F	F	28
9.8	9.8	10.5	11.4	12.6	R	12.0	10.6	F	F	F	F	29
10.8	10.7	10.8	10.8	11.0	11.4	11.8	11.6	11.0	11.0	10.9	11.3	30
10.5	10.7	10.7	10.9	11.7	12.7	12.7	11.4	u10.6F	10.4	10.0	10.4	31
25	26	27	27	29	27	28	21	13	15	13	14	Count
10.8	10.7	10.8	11.3	11.7	12.2	11.8	10.8	10.2	10.4	10.4	10.5	Median
10.8	11.1	11.2	11.6	12.0	12.2	11.8	10.5	10.3	10.5	10.6	10.2	Mean

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



Characteristic : foF1  
 Unit : Mc  
 Month : May, 1960

TABLE 46  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								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 <sup>4.9</sup>	L <sup>LH</sup>	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								C	C	C	C	C
11								C	C	C	C	C
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L <sup>LH</sup>	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								C	C	C	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L <sup>LH</sup>
30								L	L	L	C	C
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 : May, 1960

TABLE 46 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
L	L	L	L	L	L							2
C	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
C	C	C	C	C	C							11
C	C	C	C	C	C							12
B	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 <sup>H</sup>	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L <sup>H</sup>	L <sup>H</sup>	L	L	L							31
..	..	.	..	..	.							Count
..	..	..	..	..	.							Median
..	..	..	..	..	.							Mean

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

Characteristic : foF1  
 Unit : Mc  
 Month : May, 1960

TABLE 46 (Contd.)  
 Ionospheric Data  
 75.0 E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							L	L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4							L	L	L	L	L	L
5							L	L	L	L	L	L
6							L	L	L	L	L	L
7								L	L	L <sup>H</sup>	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10							C	C	C	C	C	C
11							C	C	C	C	C	C
12							C	L	L	L	C	C
13							L	L	L	L	B	B
14								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
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							C	L	L	L	L	L
23								L	L	L	L	L
24							C	L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L <sup>H</sup>
30								L	L	L	L	L
31								L	L	L <sup>H</sup>	L <sup>H</sup>	L
Count							..	..	..	..		.
Median							..	..	..	.	..	..
Mean							..		.	..	.	..

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

Characteristic : foF1  
 Unit : Mc  
 Month : May, 1960

TABLE 46 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
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	A	A	A								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 <sup>H</sup>	L	L								28
L	L <sup>H</sup>	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
												Count
.	.	..	.									Median
..	.	.		..								Mean

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

Characteristic : foE  
 Unit : Mc  
 Month : May, 1960

TABLE 47  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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

Characteristic : foE  
 Unit : Mc  
 Month : May, 1960

TABLE 47 (Contd.)  
 Ionospheric Data  
 75.0 E Mean Time

Latitude : 10.2° N  
 Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A	A							1
A	A	A	A	A	A	A						2
C	A	A	A	A	A							3
A	A	A	A	B	A							4
A	A	A	A	A	A							5
A	A	A	A	A	A	A						6
A	A	A	A	A	A	2.9 <sub>II</sub>						7
A	A	A	3.5 <sub>H</sub>	A	A	A						8
A	C	C	C	C	C	C						9
C	C	C	C	C	C	C						10
C	C	C	C	A	A	A						11
B	B	B	A	A	A	2.5 <sub>II</sub>						12
A	A	A	A	A	A	A						13
B	A	A	A	A	A	2.7						14
A	A	A	A	A	A	A						15
A	A	A	A	A	A	A						16
A	A	3.9	3.4	R	R	2.6						17
A	A	A	A	A	A	2.5						18
A	A	A	3.5	3.0	2.5	2.6						19
A	A	A	C	3.2	2.6							20
A	A	A	A	A	A	A						21
A	A	A	A	A	A	A						22
A	C	C	A	A	A	A						23
A	A	A	A	A	A	A						24
B	A	A	A	A	A	A						25
A	A	A	B	A	2.6							26
A	A	A	A	A	A							27
A	A	A	A	u3.3 <sub>F</sub>								28
A	A	B	F	A	A	R						29
A	A	F	F	A	u2.4 <sub>HH</sub>							30
A	A	A	A	A	A							31
.		1	3	3	8							Count
..		.	.	.	2.6							Median
.	..	.	.	.	2.6							Mean

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

Characteristic : foE  
 Unit : Mc  
 Month : May, 1960

TABLE 47 (Contd.)  
 Ionospheric Data  
 75°0' E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							A	A	A	A	A	A
2								2.9	A	A	A	A
3								3.2	A	A	A	A
4							R	A	A	A	A	A
5							2.5	A	A	A	A	A
6							A	A	A	A	A	A
7							A	3.1	A	A	A	A
8							2.5	A	A	A	A	A
9							A	A	A	A	A	A
10							C	C	C	C	C	C
11							C	C	C	C	C	C
12							C	A	C	C	C	C
13							A	A	A	A	B	B
14								A	A	A	A	A
15							R	3.2	B	B	B	B
16							A	A	A	A	A	A
17							2.6	A	A	B	A	A
18							A	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							C	C	C	C	A	A
23							A	A	A	A	A	A
24							C	C	A	A	A	A
25							B	3.3	A	A	A	A
26							R	A	A	A	A	A
27							2.6A	U3.1R	3.5	A	A	A
28							F	A	A	A	A	A
29							R	U3.3R	U3.5R	A	A	A
30							A	A	A	A	A	A
31							U2.7R	A	A	A	A	A
Count							7	7	2	..	..	..
Median							2.5	3.2	.	..	..	..
Mean							2.6	3.2	..	..	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : foE  
 Unit : Mc  
 Month : May, 1960

TABLE 47 (Contd.)  
 Ionospheric Data  
 75 0 E Mean Time

Latitude : 10.2° N  
 Longitude: 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A								1
A	A	A	A	A	A							2
A	A	A	A	A								3
A	A	A	B	A								4
A	A	A	3.3	A								5
A	A	A	A	A								6
A	A	A	A	A								7
A	A	A	R	A								8
C	C	C	C	C								9
C	C	C	C	C								10
C	C	C	C	A								11
B	B	B	A	A								12
A	A	A	A	A								13
A	A	A	A	A								14
A	A	A	A	A								15
A	A	A	A	A								16
A	A	3.7	3.3	2.8								17
A	A	A	A	2.9								18
A	A	3.6	3.3	2.8	A							19
A	A	A	3.4	3.0								20
A	A	A	A	A								21
A	A	A	A	A								22
C	C	C	C	A								23
C	C	C	C	A								24
A	A	A	A	A								25
A	A	B	A	A								26
A	A	A	A	A								27
A	A	A	3.4	U3.0R								28
A	B	B	A	A								29
A	A	F	F	R								30
A	A	A	A	A								31
..	..	2	5	5	.							Count
.	.		3.3	2.9	..							Median
.	.		3.3	2.9								Mean

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



Characteristic : foEs  
 Unit : Mc  
 Month May, 1960

TABLE 48  
 Ionospheric Data  
 75 0 E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11	
1							G	9.4	9.8	11.5	12.0	12.0	
2							G	8.2	11.0	12.0	12.0	12.0	
3							2.3	G	10.6	11.3	12.0	C	
4							G	8.5	9.8	10.8	11.8	12.2	
5				13.6				9.8	10.8	11.8	11.8	12.6	
6							G	8.9	11.2	12.0	13.0	14.0	
7								9.8	11.2	12.3	12.9	12.2	
8								9.8	11.3	12.1	12.4	12.8	
9							6.6	8.8	9.3	C	11.6	11.4	
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	C	C	C	C	C	C	C	
13	u5.8s	2.8					G	7.8	10.8	11.5	12.4	B	
14							G	11.0	11.6	13.0	13.0	12.0	
15	3.6						G	4.0	10.4	11.8	12.0	12.1	
16							7.0	8.0	10.7	10.8	12.6	13.0	
17			3.5					10.2	10.8	10.8	12.0	12.2	
18	4.2						G	9.4	11.8	12.2	12.4	12.6	
19								9.4	11.4	11.0	12.0	11.4	
20	3.0			4.4			G	7.0	10.0	12.0	12.0	12.0	
21	3.2							10.0	11.0	11.4	12.0	12.4	
22					C	C	C	C	C	C	13.0	14.4	
23		6.0	7.0	7.0	C	C	3.0	9.0	12.0	12.0	12.4	13.0	
24		C	C	C	C	C	C	C	C	12.0	13.0	13.4	
25							G	3.6	6.6	9.2	13.0	12.4	
26	3.5							8.2	11.0	10.6	12.0	12.6	
27							G	G	G	G	12.0	11.7	
28					5.2			8.2	8.6	12.0	11.6	11.6	
29	u5.8s	4.0						G	G	6.0	12.6	12.0	
30	5.2	8.4	5.6	4.6	5.6	8.4	u7.2s	8.2	11.8	10.2	C	C	
31		4.6	u5.6s	u6.6s	2.6			8.2	8.4	9.4	11.8	11.6	
Count	8	5	4	5	3	1	14	26	26	26	27	25	
Median	3.9	4.6	.	6.6			G	8.2	10.8	11.4	12.0	12.2	
Mean	4.3	5.2		7.2				5.2	8.4	10.4	11.1	12.3	12.4

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : foEs  
 Unit : Mc  
 Month May, 1960

TABLE 48 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.0	12.2	11.6	10.8	9.7	7.3							1
11.8	11.8	11.6	11.4	11.6	8.6	S		2.0	4.6			2
C	12.2	11.6	10.8	10.6	7.6							3
11.6	10.8	10.4	8.6	7.8	6.7				1.9	4.2	3.1	4
11.8	11.4	10.8	8.2	8.3	7.6			C	C			5
12.9	13.4	12.3	12.0	9.7	8.1	C				S		6
11.9	11.8	11.3	13.1	10.9	G		C	C			3.2	7
12.8	7.7	12.3	G	9.5	8.6							8
13.8	C	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	7.8	C		C		C	C		11
C	12.6	12.0	11.0	8.8	8.4						u4.4s	12
B	11.5	12.0	11.4	9.0	G	4.4			u5.0s	3.0	4.4	13
11.8	12.8	12.4	9.8	12.0	10.0	8.0	5.4	3.8	u5.0s		6.6	14
12.8	12.8	12.2	11.4	11.0	7.6		7.6	4.0	3.1		4.6	15
12.2	12.6	12.4	11.8	9.8	8.8	10.0			2.7	3.6	3.4	16
12.0	10.8	8.0	G	G	G					3.4	2.4	17
C	12.4	12.0	12.4	8.2	7.0					2.3	2.2	18
17.2	13.6	10.4	G	G	G	8.0	3.6				2.0	19
13.0	12.0	12.4	C	7.8	G			1.9	2.7			20
12.8	12.6	11.8	20.0	21.0	11.4	6.0	C		4.4	C	4.0	21
13.0	13.0	13.4	11.6	11.0	9.0	8.0	2.4		5.0	8.0		22
12.6	C	C	12.0	8.6	11.4	10.0	C	2.4	4.8	3.8	3.0	23
12.2	C	C	C	C	7.4	1.8	C	7.0	4.2			24
9.2	13.0	12.0	12.0	10.0	8.0	8.0	3.0			3.0	3.0	25
12.0	12.0	12.0	11.6	9.8	G	u6.0s			4.0		1.8	26
12.2	12.0	12.0	10.4	8.7	G	G		2.5	4.3			27
12.3	11.9	13.4	10.8	8.4	5.8	u6.6s	u4.6s		u6.0s	u4.8s	3.2	28
13.6	13.0	11.0	G	9.4	7.5	u4.6s				u4.5s	u10.6F	29
13.0	12.0	12.0	12.0	10.8	G	8.6		2.4	8.4			30
12.0	12.2	11.6	10.0	10.0	8.9	3.6			u5.8s			31
25	26	26	26	28	27	14	6	8	16	10	16	Count
12.2	12.2	12.0	11.2	9.6	7.6	7.3	4.1	2.4	4.5	3.7	3.2	Median
12.5	12.1	11.7	11.5	10.0	8.3	6.7	4.4	3.3	4.5	4.1	3.9	Mean

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

Characteristic : foEs  
Unit : Mc  
Month : May, 1960

TABLE 48 (Contd)  
Ionospheric Data  
75 0°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							7.4	10.8	11.2	11.6	12.2	12.7
2								11.2	10.2	11.7	12.2	12.2
3							3.4	G	10.6	12.6	12.6	13.0
4							G	8.8	10.4	12.0	12.4	12.2
5							6.6	10.0	11.4	11.7	11.8	12.2
6							U7.0s	11.0	12.0	12.6	13.6	12.9
7							7.7	7.6	12.1	12.4	12.8	12.3
8	3.6						7.9	11.0	10.8	12.7	12.2	12.2
9							8.8	10.7	10.1	11.7	11.3	12.3
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	C	C	9.8	C	C	C	C
13	5.4		4.8				7.0	10.4	11.0	12.6	B	B
14								9.0	11.4	12.4	12.6	12.2
15							3.5	3.8	10.4	12.3	12.6	11.7
16	3.3			4.4			9.8	10.8	11.8	12.2	12.8	12.4
17							G	10.0	12.4	11.4	11.8	12.4
18							7.6	10.8	12.0	12.0	12.0	12.2
19			3.9				8.6	9.4	11.0	9.8	11.8	17.4
20				3.6			G	9.0	10.6	12.4	12.4	12.4
21							G	11.0	11.0	12.0	12.3	12.8
22			C	C	C	C	C	C	C	C	13.0	13.0
23		5.8	7.0				7.8	10.8	11.4	12.6	12.2	13.0
24		C	C	C	C	C	C	C	12.0	12.6	13.0	13.4
25						2.4	G	G	8.6	10.0	10.6	9.2
26	2.4						G	8.2	10.0	12.0	12.8	12.3
27							G	G	G	9.2	11.5	12.3
28					3.8		G	8.8	11.4	12.2	11.8	11.4
29	2.4	4.3					G	G	G	U9.4s	12.5	12.8
30		S	3.2	5.6	8.6	7.2	10.4	9.8	9.0	10.4	12.6	12.4
31		U7.6s	S	5.8	2.6		G	8.0	9.3	10.6	10.8	11.7
Count	5	3	4	4	3	2	24	27	27	27	27	27
Median	3.3						5.0	9.8	11.0	12.0	12.3	12.3
Mean	3.4						7.4	9.6	10.9	11.7	12.2	12.5

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : foEs  
Unit : Mc  
Month : May, 1960

TABLE 48 (Contd.)  
Ionospheric Data  
75° 0' E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.2	12.6	10.8	9.8	7.6	5.6							1
12.0	11.2	11.2	11.8	9.8	7.8			4.2				2
12.6	11.7	11.5	11.4	8.0	2.8					3.8		3
11.6	10.4	9.0	B	6.7					3.6	4.5	4.4	4
11.3	11.4	8.4	6.6	7.8				C	C			5
12.8	12.4	12.2	11.8	8.2	C	C						6
12.4	12.3	12.3	11.9	8.1	6.6							7
10.6	10.4	11.6	G	8.8	7.2							8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	8.6	U4.2s			C	C		C	11
C	12.2	11.4	10.9	7.8	7.6						U7.4s	12
B	12.2	11.0	10.9	7.4				4.5	3.8	4.6	5.0	13
13.0	12.2	10.8	10.4	11.6	7.6	7.0	4.0	3.8	U5.0s	4.0	4.4	14
12.4	12.6	11.6	12.0	8.7		7.6	6.6	4.4	3.6		3.1	15
12.8	12.2	11.4	11.8	10.0	12.4	6.0			3.8	4.0		16
10.0	11.0	G	G	G						2.8		17
12.4	11.8	11.4	9.0	7.2						4.4	3.2	18
19.0	21.0	G	G	G	8.0							19
12.8	12.0	10.0	7.0	G				2.4	3.2			20
12.0	12.0	13.0	21.0	21.0	8.6	6.4		2.6	5.0	6.6	4.6	21
13.0	13.0	12.0	12.0	9.4	10.0	5.0		3.0	7.0			22
C	C	12.0	11.0	8.2	10.0	9.0	4.0	4.0	5.8	4.0		23
C	C	C	C	9.0	6.0	3.0		7.8	4.4			24
13.0	12.6	12.0	11.4	8.3	7.0	4.8			4.6		7.0	25
13.0	12.2	B	12.0	8.3	4.4	S		3.0		2.0		26
12.4	11.8	11.8	9.6	6.2				3.3	3.4			27
11.8	12.0	10.8	8.2	G	5.8	6.4		3.2	U7.4s	3.5	3.2	28
13.0	12.6	10.0	G	7.8		U2.6s			2.0	7.0	U6.5s	29
12.4	12.0	10.8	11.8	8.2	8.2	U5.0s		4.2	U3.8s			30
12.0	11.7	11.4	9.4	10.8	U8.8s	3.0		2.8	4.8			31
24	26	26	26	29	19	12	3	14	16	12	10	Count
12.4	12.1	11.4	10.9	8.2	7.6	5.5	..	3.6	4.1	4.0	4.5	Median
12.5	12.3	11.2	11.0	8.9	7.3	5.5	.	3.8	4.4	4.3	4.9	Mean

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

Characteristic : fbEs  
Unit : Mc  
Month : May, 1960

TABLE 49  
Ionospheric Data  
75.0°E Mean Time

Latitude : 10.2°N  
Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							G	2.8	3.3	3.7	3.9	4.2
2								G	3.5	3.8	3.9	4.3
3								G	3.4	3.8	4.0	C
4							G	2.9	3.4	3.8	4.0	4.2
5								3.0	3.4	3.9	3.9	4.2
6							G	2.9	3.3	3.7	4.1	4.1
7								2.9	3.6	3.8	4.0	4.2
8								2.9	3.3	3.8	4.0	4.2
9							2.2	2.9	3.5	C	4.0	4.3
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	C	C	C	C	C	C	C
13	1.8						G	3.0	3.5	3.9	4.1	B
14								G	3.5	4.1	4.1	4.2
15	2.0						G	3.7	3.5	C	C	C
16							2.6	2.9	3.5	3.8	4.1	4.3
17			1.8					3.0	3.4	3.7	3.9	4.0
18	1.9						G	3.0	3.4	3.8	3.9	4.0
19								2.9	3.4	3.8	4.0	4.1
20				1.3			G	2.9	3.4	3.8	4.0	4.1
21	2.4							2.8	3.4	3.8	4.0	4.1
22					C	C	C	C	C	C	4.0	4.0
23			1.9		C	C	C	2.2	2.9	3.4	3.7	4.0
24		C	C		C	C	C	C	C	3.7	4.0	4.1
25							G	3.2	3.4	3.7	4.0	4.2
26	2.4							3.0	3.4	3.8	4.0	4.1
27							G	G	G	G	4.1	4.3
28					2.2			3.0	3.4	3.8	4.0	4.1
29	2.0							G	G	G	4.1	4.2
30	2.4	2.6	2.2	2.0	1.9	2.2	2.4	3.0	3.6	3.9	C	C
31			2.1	2.2	1.6			2.9	3.5	4.0	4.0	4.0
Count	7	1	4	3	3	1	13	26	26	24	26	24
Median	2.0	..	..	..	.	..	G	2.9	3.4	3.8	4.0	4.2
Mean	2.1	..	..	..	.	.	..	3.0	3.4	3.8	4.0	4.2

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

Characteristic fbEs  
Unit : Mc  
Month : May, 1960

TABLE 49 (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
4·2	4·1	3·9	3·5	3·1	2·8							1
4·3	4·4	4·0	3·9	3·5	3·0	2·6		1·4	1·7			2
C	4·3	4·0	3·7	3·4	2·6							3
4·2	4·1	3·9	3·6							1·6	1·6	4
4·1	4·0	3·9	3·6	3·2	2·6			C	C			5
4·1	4·0	3·8	3·6	3·3	2·9	C				2·2		6
4·3	4·0	3·8	4·5	3·3			C	C				7
4·3	4·1	3·9	G	3·6	2·9							8
5·0	5·4	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	3·4	C		C		C	C		11
C	4·4	4·5	3·9	3·6	2·8						1·5	12
B		4·6	4·0	3·4	G	2·1			2·1	1·7	1·6	13
4·2	4·2	4·0	3·8	5·2	3·7	3·2	U2·4s		1·5		1·6	14
5·0	4·3	4·0	3·7	3·3	2·7		1·5	1·5	1·6			15
4·0	4·0	3·5	3·2	3·5	2·5					1·7	1·9	16
4·2	4·1	3·8	G	G	G					2·0	1·2	17
C	4·0	3·8	3·5	3·1	2·6					1·5	1·4	18
4·2	4·0	4·4	G	G	G	2·7	2·2				1·4	19
4·1	4·0	3·7	C	3·2					2·0			20
4·1	4·0	3·8	6·2	A	3·5	2·5	C		1·8	C	2·0	21
4·0	4·1	C	3·6	3·3	2·8	2·7	1·5		2·6	2·4		22
4·2	C	C	3·5	3·2	4·0	2·8	C	1·5	2·2	1·5		23
4·1	C	C	C	C	2·6	1·8	C	2·0	1·8			24
4·4	4·8	3·8	3·6	3·2	2·8	2·6	2·4			1·8	1·8	25
4·2	4·1	4·0		3·2	G	2·6					1·6	26
4·3	4·2	4·0	3·8	3·6				2·0	2·8			27
4·2	4·2	4·0	3·8	3·3	3·1	2·8			1·7	2·0		28
4·4	4·3		G			2·1				2·0	2·1	29
4·2	4·2	3·9	3·8	3·4	G	4·1		1·6	2·8			30
4·2	4·3	4·1	3·6	3·6	3·3	2·4			2·6			31
25	26	24	25	26	23	14	5	6	13	11	12	Count
4·2	4·1	3·9	3·6	3·3	2·8	2·6	2·2	1·6	2·0	1·8	1·6	Median
4·3	4·2	4·0	3·8	3·4	3·0	2·6	2·0	1·7	2·1	1·9	1·6	Mean

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

Characteristic : fbEs  
 Unit : Mc  
 Month : May, 1960

TABLE 49 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2.5	3.1	3.4	3.8	4.0	4.0
2									3.6	3.9	4.2	4.3
3							2.8	G	3.6	4.0	4.2	4.0
4							G	3.2	3.6	4.0	4.0	4.2
5								3.1	3.7	4.0	4.0	4.2
6							2.6	3.1	3.6	4.0	4.0	4.1
7							2.7	3.6	3.6	3.9	4.1	4.2
8							2.6	3.1	3.6	3.9	4.0	4.3
9							2.6	3.3	3.6	3.8	4.1	4.3
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	C	C	3.4	C	C	C	C
13	2.2						2.7	3.3	3.6	3.9	B	B
14								3.2	3.6	4.0	4.2	4.5
15							3.5	3.8				4.7
16	2.0			1.7			2.7	3.3	3.7	3.8	4.2	4.2
17							G	3.2	3.7	4.0	4.0	4.1
18							2.6	3.2	3.6	3.8	3.9	4.1
19			1.5				2.6	3.1	3.4	4.0	4.1	4.1
20				1.6			G	3.1	3.6	3.9	4.1	4.1
21							G	3.2	3.5	3.9	4.0	4.1
22			C	C	G	C	C	C	C	C	4.0	4.1
23		2.2	2.4				2.6	3.2	3.6	3.8	4.0	4.0
24		C	C	C	C	C	C	C	3.6	3.8	4.0	4.0
25							G	G	3.6	3.8	4.0	4.2
26	2.4						G	3.2	3.6	3.9	4.0	4.2
27							G	G	G	4.1	4.2	4.3
28					1.9		G	3.2	3.8	4.0	4.1	4.4
29	1.8	2.0					G	G	G	4.1	4.2	4.4
30		2.4		2.1	2.0	2.7	3.0	3.2	3.6	3.9	4.1	4.1
31			2.0	2.2			G	3.2	3.6	3.8	4.0	4.2
Count	4	3	3	4	2	1	23	26	26	26	26	27
Median	.	..	..	..	.	.	2.6	3.2	3.6	3.9	4.0	4.2
Mean	..	..	..	.	.	.	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 : May, 1960

TABLE 49 (Contd)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10 2°N  
 Longitude : 77.5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.1	3.9	3.8	3.4	3.0								1
4.2	4.3	4.0	4.1	3.6	2.8			3.0				2
4.2	4.2	3.9	3.4	3.0	2.5					1.6		3
4.1	4.0	3.7	B						1.6	1.7	1.7	4
4.2	4.0	3.7	3.4	3.0				C	C			5
4.0	4.0	3.7	3.6	3.2	C	C						6
4.1	3.9	3.8	5.0	3.0	2.4							7
4.2	4.0	3.8	G	3.2	2.5							8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	3.1	2.6			C	C		C	11
C		4.1	3.6	3.2	2.4						2.2	12
B		4.4	3.8					1.7	2.1	1.5	1.5	13
4.2	4.0	4.0	3.6	5.0	3.7	2.8	u2.4s	1.8	2.0	1.8	2.1	14
4.4	4.1	3.9	3.5	3.0		1.3	1.4	1.5	1.7		1.7	15
4.2	4.0	3.7	3.4	3.2	5.5	2.1			1.4	1.8		16
4.1	4.0	G	G	G						1.7	1.4	17
4.1	3.8	3.7	3.4	3.0								18
4.2	7.6	G	G	G	2.3							19
4.1	3.9	3.6	3.4					1.8	2.3			20
4.0	3.9	4.0	7.8	7.4	2.6	2.4		1.6	1.9	2.2	2.0	21
4.2	4.0	3.7	3.4	3.0	2.7	1.8		1.8	2.6			22
C	C	3.6	3.4	3.2	3.6	3.2	1.5	2.0	2.0	1.4		23
C	C	C	C	3.2	2.4			2.6	1.7			24
4.2	4.0	3.3	3.4	3.0	3.0	2.0			2.6		2.4	25
4.2	4.2	B	3.6	3.0	2.4	1.8		1.8		1.7		26
4.4	4.1	3.8	3.7	3.4				2.5	2.2			27
4.2	4.1	4.0	3.6	G	2.7	2.3		1.9	1.8			28
4.2			G	3.2		1.5				2.2	2.0	29
4.2	4.2	3.8	3.6		3.2	2.0		1.6	1.6			30
4.3	4.1	3.8	3.5	5.0	3.0			1.6	2.3			31
24	23	25	26	25	18	11	3	14	15	10	9	Count
4.2	4.0	3.8	3.4	3.1	2.6	2.0		1.8	2.0	1.7	2.0	Median
4.2	4.2	3.8	3.8	3.5	2.9	2.1		1.9	2.0	1.8	1.9	Mean

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



Characteristic : fmin  
Unit : Mc  
Month : May, 1960

TABLE 50  
Ionospheric Data  
75°0'E Mean Time

Latitude : 10.2° N  
Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	1.6	1.7	1.9	2.0	1.8	E	1.9	1.7	1.9	2.6	2.7	2.8
2	1.3	1.9	2.2	1.7	1.8	1.8	2.4	2.1	2.3	2.7	2.8	3.0
3	1.5	1.9	1.8	1.5	1.8	1.8	1.9	2.4	2.4	2.7	2.8	C
4	1.5	1.6	1.6	1.6	1.7	1.8	1.9	1.6	2.2	2.5	2.9	2.8
5	1.4	1.3	1.4	1.5	1.4	1.5	2.2	1.8	2.3	2.8	2.6	3.0
6	1.2	1.2	1.3	1.3	1.2	1.5	1.9	1.9	2.2	2.6	2.7	2.8
7	1.2	1.4	1.4	1.3	1.2	1.6	1.3	1.6	2.4	2.5	2.6	3.1
8	1.4	1.4	1.6	1.4	1.6	1.5	1.3	1.5	2.1	2.5	2.5	2.9
9	1.2	1.4	1.3	1.4	1.3	1.5	1.7	1.8	2.5	2.6	2.6	3.0
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	1.3	1.3	C	C	C	C	C	C
13	1.3	1.7	1.4	1.8	1.6	1.5	1.7	1.9	2.4	2.6	2.8	B
14	1.4	1.5	2.0	1.5	1.5	1.3	2.4	2.2	2.4	3.2	3.1	2.7
15	1.4	1.5	1.6	1.3	1.6	1.7	2.2	2.5	2.4	4.2	4.6	5.0
16	2.1	2.3	1.8	1.8	1.7	1.5	1.7	1.7	2.0	2.4	2.5	3.0
17	1.6	1.5	1.6	1.4	1.8	1.4	2.1	1.8	2.1	2.3	2.5	2.6
18	1.4	1.7	1.6	1.4	1.4	1.3	1.4	1.5	2.1	2.4	2.4	2.4
19	1.3	1.2	1.3	1.4	1.6	1.7	2.2	1.7	2.0	2.3	2.5	2.7
20	1.3	1.4	1.5	E	1.6	1.5	1.8	1.6	1.9	2.4	2.6	2.7
21	1.7	2.0	1.8	1.7	1.4	1.5	2.2	1.6	2.2	2.5	2.6	3.0
22	2.3	2.2	1.5	C	C	C	C	C	C	C	2.6	2.8
23	1.8	1.9	1.8	2.0	2.0	1.6	1.4	1.5	2.2	2.3	2.6	2.7
24	1.4	C	C	C	C	C	C	C	C	2.4	2.4	2.6
25	1.5	1.8	2.0	1.4	1.5	1.3	1.6	1.8	2.5	2.6	3.8	3.0
26	1.5	2.4	2.0	2.0	1.7	1.5	2.2	1.6	2.2	2.6	2.8	3.0
27	2.2	1.7	1.9	1.5	1.3	1.6	1.7	1.9	2.1	3.0	3.0	3.0
28	1.9	2.0	1.8	1.5	1.4	2.0	2.4	1.9	2.2	2.6	2.8	3.0
29	1.4	1.6	1.7	2.2	1.9	2.1	2.8	2.3	3.0	3.0	3.1	3.2
30	2.0	1.6	1.6	1.4	1.4	1.6	1.8	1.8	2.3	2.6	C	C
31	1.5	2.0	1.5	1.5	1.5	1.7	2.3	1.6	2.1	2.4	2.7	2.9
Count	28	27	27	26	27	27	26	26	26	27	27	25
Median	1.4	1.7	1.6	1.5	1.6	1.5	1.9	1.8	2.2	2.6	2.7	2.9
Mean	1.5	1.7	1.7	1.6	1.6	1.6	1.9	1.8	2.2	2.6	2.8	2.9

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

Characteristic : fmin  
Unit : Mc  
Month : May, 1960.

TABLE 50 (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
2.8	2.9	2.7	2.4	2.2	1.9	1.8	1.4	1.4	1.5	1.1	1.3	1
3.1	3.0	2.8	2.7	2.3	1.8	1.3	S	1.1	1.4	1.8	1.8	2
C	2.8	2.7	2.6	2.2	2.0	1.9	1.8	1.4	1.6	1.7	1.5	3
3.0	2.8	2.9	2.6	4.0	2.8	1.8	1.9	1.4	1.6	1.4	1.5	4
3.0	3.0	2.6	2.5	2.1	2.0	1.6	S	C	C	u1.2s	1.4	5
2.8	2.5	2.5	2.3	2.0	2.8	C	1.7	1.3	1.8	1.3	1.6	6
3.1	2.9	2.6	2.2	2.0	2.2	1.7	C	C	1.4	1.4	1.4	7
2.8	3.2	2.6	2.6	2.1	2.2	1.8	1.4	S	S	1.4	1.5	8
3.1	C	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	2.2	C	1.3	C	S	C	C	1.6	11
C	3.0	4.5	2.7	2.4	2.2	1.8	1.4	1.5	1.2	1.2	1.5	12
6.4	5.1	4.6	3.2	2.7	2.0	1.3	1.4	1.6	1.2	1.4	1.1	13
2.8	3.0	2.8	2.8	2.1	2.3	1.5	1.5	1.5	1.3	2.0	1.5	14
5.0	3.4	3.0	2.6	2.2	1.8	1.8	1.5	1.5	1.3	1.5	1.6	15
2.9	2.7	2.5	2.4	2.0	2.2	1.5	1.6	1.5	1.5	1.1	1.3	16
2.8	2.7	2.6	2.4	2.4	2.1	1.8	1.4	1.4	1.5	1.1	1.0	17
C	2.8	2.6	2.4	2.0	1.8	1.8	1.4	1.4	1.3	1.3	1.1	18
3.0	2.7	2.4	2.6	2.3	2.2	1.6	1.3	1.6	1.5	1.5	1.1	19
2.8	2.7	2.4	C	2.0	2.0	1.9	1.5	1.4	1.2	1.9	1.9	20
2.8	2.6	2.6	2.2	1.8	1.8	1.2	C	1.3	1.1	C	1.1	21
2.4	2.6	2.4	2.2	2.0	1.8	1.5	1.2	1.5	1.1	1.2	1.5	22
2.8	C	C	2.3	1.9	1.4	1.3	C	1.2	1.3	1.1	1.6	23
2.8	C	C	C	C	1.6	1.5	C	1.0	1.1	1.7	1.7	24
4.0	3.0	2.6	2.6	2.4	1.6	1.5	1.4	1.5	1.7	1.6	1.5	25
3.0	2.8	3.2	4.2	2.5	2.1	1.5	1.7	1.4	1.5	1.8	E	26
2.8	2.8	2.7	2.6	2.2	2.8	2.2	2.4	1.9	1.4	2.3	1.9	27
3.0	2.8	2.8	2.8	2.4	2.6	1.7	1.8	u1.7s	1.3	1.4	1.5	28
3.0	3.2	4.4	2.8	2.5	1.9	1.6	1.4	u1.7s	1.9	1.3	1.7	29
3.0	3.0	2.6	2.8	2.5	2.2	1.7	1.5	S	1.4	1.7	1.5	30
3.4	3.4	2.6	2.6	2.1	2.1	1.5	1.7	1.7	1.2	1.5	1.8	31
26	26	26	26	28	28	28	22	24	26	27	29	Count
3.0	2.8	2.6	2.6	2.2	2.0	1.6	1.5	1.4	1.4	1.4	1.5	Median
3.2	3.0	2.9	2.6	2.3	2.1	1.6	1.6	1.4	1.4	1.5	1.5	Mean

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

Characteristic : fmin  
Unit : Mc  
Month : May, 1960

TABLE 50 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.5	1.7	1.9	1.9	B	1.9	1.8	1.7	2.5	2.6	2.8	2.8
2	1.2	1.4	1.8	1.5	1.5	1.9	2.9	2.6	2.7	2.7	2.8	3.0
3	1.9	1.7	1.5	1.5	1.6	2.1	2.4	2.6	2.6	2.6	2.8	2.8
4	1.8	1.4	1.5	1.8	1.6	1.8	2.3	2.0	2.3	2.6	2.6	2.7
5	1.3	1.4	1.1	1.4	1.5	1.8	1.8	2.1	2.9	2.7	2.8	3.0
6	1.3	1.4	1.2	1.4	1.8	1.9	2.1	2.1	2.4	2.5	2.6	2.8
7	1.5	1.4	1.9	1.3	1.5	1.5	1.9	1.9	2.5	2.7	2.7	3.3
8	1.3	1.5	1.2	1.4	1.4	1.8	1.8	1.8	2.4	2.3	2.6	3.0
9	1.1	1.6	1.3	1.2	1.5	1.8	1.6	2.5	2.5	2.6	2.9	3.1
10	C	C	C	C	C	C	C	C	C	C	C	C
11	C	C	E	C	C	C	C	C	C	C	C	C
12	C	C	C	C	1.5	C	C	2.3	C	C	C	C
13	1.1	1.5	1.3	1.6	1.6	1.9	1.8	2.1	2.5	2.5	B	7.0
14	1.5	1.4	1.4	1.3	1.3	1.8	2.6	2.2	2.4	2.9	3.0	3.0
15	1.6	1.5	1.5	1.6	1.6	1.9	2.6	2.6	4.2	4.6	4.8	4.7
16	1.6	1.8	1.4	1.6	1.4	2.0	1.9	2.1	2.1	2.4	3.8	3.0
17	1.5	1.6	1.3	1.5	1.5	1.9	2.0	2.0	2.2	3.3	2.7	2.7
18	2.1	1.5	1.7	1.6	1.4	1.7	1.7	2.0	2.2	2.1	2.5	3.0
19	1.2	1.3	1.3	1.7	1.8	1.6	1.8	1.8	2.2	2.2	2.6	2.7
20	1.4	1.4	1.2	1.1	1.5	1.6	1.8	1.7	2.1	2.2	2.7	2.9
21	1.6	1.9	1.4	1.5	1.4	1.7	1.8	1.9	2.3	2.5	2.7	3.0
22	2.2	1.6	C	C	C	C	C	C	C	C	2.5	2.7
23	1.9	2.0	2.0	2.3	1.7	1.7	1.5	1.8	2.2	2.4	2.8	2.8
24	1.4	C	C	C	C	C	C	C	2.2	2.3	2.6	2.6
25	2.2	1.8	1.9	1.4	1.5	1.6	2.6	2.3	2.6	2.6	3.0	3.0
26	1.4	2.6	2.0	2.4	1.6	1.9	1.9	1.9	2.4	2.7	3.0	2.8
27	1.7	1.4	1.3	1.6	1.6	1.6	1.8	2.1	2.2	2.8	2.8	2.8
28	1.9	1.8	1.8	2.1	1.8	2.2	1.8	2.2	2.4	2.8	3.1	3.0
29	1.3	1.5	1.7	2.0	2.2	2.5	2.2	2.7	3.0	2.8	3.0	3.0
30	2.2	1.8	1.7	1.4	1.2	1.8	1.7	1.9	2.4	2.6	2.8	2.8
31	1.8	1.6	1.6	1.4	1.8	1.8	1.9	1.9	2.4	2.4	2.7	3.4
Count	28	27	26	26	27	26	26	27	27	27	27	28
Median	1.5	1.5	1.5	1.5	1.5	1.8	1.8	2.1	2.4	2.6	2.8	3.0
Mean	1.6	1.6	1.5	1.6	1.6	1.8	2.0	2.1	2.5	2.6	2.9	3.1

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

Characteristic . fmin  
Unit : Mc  
Month : May, 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
2.9	2.7	2.6	2.4	2.3	2.3	1.3	1.4	1.4	1.2	1.5	1.3	1
3.5	3.0	2.7	2.5	2.2	1.7	1.8	1.4	1.4	1.8	2.2	1.4	2
2.9	2.9	2.6	2.5	2.1	1.9	1.4	1.6	1.7	1.5	1.5	1.5	3
3.0	3.0	2.8	5.4	3.2	2.4	1.5	1.4	1.6	1.2	1.4	1.7	4
2.8	2.8	2.6	2.4	2.2	2.2	1.4	1.5	C	C	1.2	1.2	5
2.6	2.5	2.4	2.2	2.6	C	C	1.4	1.4	1.9	2.1	1.4	6
2.8	2.7	2.3	2.3	2.2	1.9	1.4	C	C	1.4	1.6	1.4	7
3.0	2.8	2.6	3.0	2.4	2.0	1.5	S	1.3	1.6	1.4	1.3	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	2.2	1.8	1.1	S	C	C	1.4	C	11
C	4.9	3.2	2.4	2.6	1.8	1.4	1.4	1.3	1.2	1.3	1.7	12
5.7	4.8	4.4	3.0	2.4	2.5	1.4	1.4	1.2	1.3	1.2	1.3	13
2.9	2.8	2.7	2.2	2.5	2.3	1.4	1.7	1.2	1.3	1.8	1.6	14
3.8	3.0	3.0	2.5	2.3	2.4	1.2	1.4	1.2	1.7	1.8	1.7	15
2.8	2.6	2.7	2.4	2.0	2.3	1.5	1.4	1.1	1.2	1.3	1.7	16
2.9	2.8	2.6	2.5	2.2	2.2	1.3	1.4	1.4	1.1	1.1	1.4	17
2.7	2.6	2.6	2.2	2.0	2.4	1.3	1.4	1.3	1.3	1.1	1.2	18
2.8	2.5	2.6	2.6	2.0	1.7	1.3	1.5	1.5	1.6	1.3	1.4	19
2.7	2.6	2.6	2.1	2.1	2.3	2.6	1.3	1.3	1.2	1.7	2.0	20
2.8	2.6	2.3	2.3	1.7	1.5	1.1	1.3	1.1	1.1	1.2	1.9	21
2.6	2.6	2.5	2.2	2.1	1.5	1.1	1.3	1.0	1.4	1.4	1.7	22
C	C	2.4	2.0	1.5	1.4	1.2	E	1.3	1.2	1.1	1.2	23
C	C	C	C	1.7	1.4	1.4	1.5	1.3	1.2	1.4	1.5	24
3.0	2.7	2.7	2.6	2.0	1.7	1.4	U2.2s	1.8	E	1.5	1.7	25
2.8	3.0	5.7	2.8	2.2	1.7	1.3	1.5	1.2	1.7	1.1	1.9	26
2.9	2.6	2.6	2.3	2.2	2.4	2.4	2.0	1.3	1.7	2.0	U2.4s	27
2.8	3.2	2.8	2.4	2.6	1.9	1.4	1.7	1.5	1.6	1.6	1.7	28
3.0	4.5	4.0	2.8	2.2	3.2	1.4	S	U1.5s	1.3	1.6	1.8	29
3.1	3.0	3.0	2.5	2.2	2.8	1.0	1.5	1.5	1.3	1.5	1.5	30
3.0	2.7	2.4	2.2	2.5	1.7	1.5	1.5	1.3	1.2	1.8	1.6	31
25	26	27	27	29	28	28	25	26	27	29	28	Count
2.9	2.8	2.6	2.4	2.2	2.0	1.4	1.4	1.3	1.3	1.4	1.6	Median
3.0	3.0	2.9	2.5	2.2	2.0	1.4	1.5	1.4	1.4	1.5	1.6	Mean

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

Characteristic : h'F2  
 Unit : Km  
 Month : May, 1960.

TABLE 51  
 Ionospheric Data  
 75° 0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L <sup>285</sup>	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								C	C	C	C	C
11								C	C	C	C	C
12								C	C	C	C	C
13								L	L	L	L	B
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 <sup>280</sup>	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								C	C	C	L	L
23								L	L	L	L	L
24								C	C	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 <sup>u270L</sup>	L	L	L <sup>H</sup>
30								L	L	L	C	C
31								L	L	L	L	L
Count								.	2	1	.	.
Median								.	.	..	.	..
Mean								.	..	.	.	.

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

Characteristic : h'F2  
 Unit : Km  
 Month : May, 1960

TABLE 51 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
L	L	L	L	L	L							2
C	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
C	L	C	C	C	C							9
C	C	C	C	C	C							10
C	C	C	C	L	C							11
B	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	A	A							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 <sup>H</sup>	L	L <sup>H</sup>	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
			1									Count
..	..	..	.	..	.							Median
..	.	..	..	.	.							Mean

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

Characteristic ; h F2  
 Unit : Km  
 Month : May, 1960.

TABLE 51 (Contd.)  
 Ionospheric Data  
 75.0°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							L	L	L	L	L	L
2								L	L	L	L	L
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
8								L	L	L	L	L
9								L	L	L	L	L
10							C	C	C	C	C	C
11							C	C	C	C	C	C
12							C	L	C	C	C	C
13							L	L	L	L	B	B
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
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							C	C	C	C	L	L
23								L	L	L	L	L
24							C	C	L	300	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	LH	L	L	L
28								L	L	L	L	L
29								L	U280	L	L	LH
30								L	L	L	L	LH
31								L	L	LH	L	L
Count								..	1	1	.	..
Median								..			..	.
Mean								.	.	.	..	.

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : h'F2  
 Unit : Km  
 Month : May, 1960.

TABLE 51 (Contd.)  
 Ionospheric Data  
 75 0 E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	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 <sup>CH</sup>	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
C	C	C	C	L								11
C	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L <sup>300</sup>	L	L	L								17
L	L	L	L	L								18
L	L	L <sup>360</sup>	L	L								19
L	L	L	L	L								20
L	L	L	L	A								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 <sup>LH</sup>	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
		1	1	..	..							Count
				..	.							Median
				..	.							Mean

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



Characteristic : h'F  
Unit : Km  
Month : May, 1960.

TABLE 52  
Ionospheric Data  
75.0 E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	340	350	F	U400F	430	E	280	240	230	220	220	220
2	220	250	260	240	220	205	240	220	215	210	200	200
3	225	240	280	275	220	200	245	220	210	205	200	C
4	245	250	240	220	215	220	250	230	220	200H	205	200
5	265	240	225	220	240	220	245	225	205	200H	185H	190H
6	265	260	230	230	225	230	265	240	230	220	215	205
7	230	270	330	260	265	300	275H	250	230	220H	215	205
8	280	260	240	230	220	225	260	240	225	220	205	210
9	250	260	250	240	235	255	270	240	235	C	215	220
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	220	240	C	C	C	C	C	C
13	260	260	275	235	220	220	260	240	210	215	205H	B
14	U360F	U345F	U300F	220	205	215	255	235	215	215H	205H	210H
15	270	265	270	245	225	215	260	U240A	225	U235B	U230B	B
16	265	280	295	275	235	220	260	215H	225H	215H	210	215
17	400	400	340	345	355	300	260	240	220	200	205	200
18	275	255	245	225	220	220	250	240	220	220	200	200
19	360	340	305	250	215	215	250	230	200	195H	210	200
20	360	380	400	420	360	240	245	230	220	200H	200	185H
21	300	295	270	240	220	215	250	230	220	200	200	200
22	320	320	340	C	C	C	C	C	C	C	200	200
23	340	320	310	280	230	220	260	235	220	200	200	200
24	340	C	C	C	C	C	C	C	C	215	215	205
25	260	280	300	280	200	240	255	240	230	220	220	210
26	380	400	400	350	260	220	260	240	220	220	200	205
27	300	320	305	260	225	220	255	235H	220	195H	210	200H
28	375	430	U420F	330	295	U275t	265	240	235	220H	215	205
29	320	300	240	230	240	260	260	240	230	220	220H	220H
30	F	F	375	U400F	F	F	280	260	250	235	C	C
31	260	300	320	360	355	355	280	250	240H	240	220H	215
Count	27	26	26	26	26	26	2	26	26	26	27	24
Median	280	290	300	255	225	220	260	240	220	215	205	205
Mean	300	305	300	280	250	240	260	235	225	215	210	205

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

Characteristic : h'F  
Unit : Km  
Month : May, 1960.

TABLE 52 (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
205	195	200	200	225	250	280	360	380	340	275	225	1
195	200	195	220	230	235	280	360	360	335	300	250	2
C	195H	200	200	230	245	280	390	F	F	F	260	3
200	210	210	205	U250B	250	280	370	F	360	325	300	4
205	200	200	215	220	240	270	330	C	C	U340s	305	5
200	200	200	215	235	255	C	355	F	F	365	260	6
210	210	215	A	235	245	280	C	C	345	320	305	7
215	205	210	225	245	260	310	F	F	F	U340t	260	8
A	A	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	240	C	300	C	F	C	C	245	11
C	200	B	235	230	260	280	U370H	F	295	260	260	12
B	B	B	220	240	255	280	U375F	U400F	U380F	U335F	U375F	13
195	200H	200	235	A	265	285	U350F	365	310	280	260	14
B	210	215	220	240	255	280	U315H	U320F	345	305	280	15
215H	200H	210H	205H	230	260	280	335	380	335	U325F	U380F	16
200	200	200H	220	235	245	280	370	F	F	350	300	17
C	200	225	235	220	240	265	325	F	F	F	380	18
200	200	A	210	220	240	280	340	F	F	340	320	19
190H	210	205	C	220	240	275	305	280	300	295	295	20
200	200	200	A	A	A	270	C	340	F	360	340	21
200	200	C	180H	230	260	280	320	320	F	F	U340F	22
200	C	C	190H	220	A	300	C	340	345	320F	340	23
210	C	C	C	C	260	280	C	330	300	260	240	24
U215A	A	210	210	240	260	280	340	F	F	U380F	320	25
200	200	220	B	220	250	270	330	350	380	360	320	26
200H	215H	205H	230	U240I	255	285	340	315	420	400	360	27
210	200H	220	215H	230	260	280	335	U370F	U360F	F	320	28
220H	200H	240	240	260	280	300	360	F	U380F	F	U420F	29
220	225	225	230	250H	260	A	335	U325F	F	F	260	30
220	215	220	220	250	U265A	280	325	F	F	320	280	31
23	24	22	23	26	26	27	23	15	16	22	29	Count
200	200	210	220	230	255	280	340	340	345	325	300	Median
205	205	210	215	235	255	280	345	345	345	325	305	Mean

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

Characteristic : h'F  
Unit : Km  
Month : May, 1960

TABLE 52 (Contd.)  
Ionospheric Data  
75.0 E Mean Time

Latitude : 10.2° N.  
Longitude : 77.5 E.

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	310	385	U380F	U430F	E	335	255	240	220	210	210	210
2	230	245	255	235	205	210	235	220	210	200	200	200
3	225	260	290	250	215	225	230	220	210	190	200	205
4	250	240	225	220	215	245	240	230	210	210	205	195
5	225	235	225	240	220	225	235	215	205	195H	190H	200
6	260	240	240	225	220	255	250	235	220	220	205	205
7	245	320	300	260	280	290H	260H	245	225	220H	210	205
8	265	245	245	225	220	265	250	230	225	205	200	205
9	255	260	250	230	240	305	260	240	230	220	210	220
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	225	C	C	235	C	C	C	C
13	265	275	260	215	220	260	255	230	200H	210	B	B
14	U360F	U335F	240	215	210	255	250	225	210	200H	200H	200H
15	265	275	265	235	210	255	240	235	B	U240B	B	B
16	270	280	280	245	220	240	255	225H	225	200H	225	215
17	400	400	320	365	315	300	240	220	220	220	200	200H
18	260	250	240	220	220	270	245	230	220	205	200	200
19	360	330	280	220	220	255	250	210	200H	220	205	200
20	370	400	F	400	330	230	235	220	205	200	195	185H
21	295	295	260	220	215	245	240	220	215	200	200	200H
22	320	330	C	C	C	C	C	C	C	C	220	200
23	340	320	300	260	220	260	240	220	210	205	200	200
24	335	C	C	C	C	C	C	C	220	215	210	200
25	280	300	300	240	220	280	245	240	220	220	215	U210A
26	400	400	400	300	230	260	250	240	220	220	200	200
27	300	330	270	240	220	250	240	225H	205H	200H	205H	215H
28	400	405	U380F	300	265	280	260	240	230	220H	210	205
29	U305F	210	225	240	250	265	255	U240L	225	215	220H	220H
30	U410F	U380F	U400F	F	F	340	270	255	240	235	225	220
31	260	315	350	360	350	305	260	240	240	225H	220	220
Count	28	27	25	25	26	26	26	27	26	27	26	26
Median	290	300	270	240	220	260	250	230	220	210	205	200
Mean	300	310	285	265	235	265	250	230	220	210	205	205

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

Characteristic : h'F  
 Unit : Km  
 Month : May, 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
200	200	205	210	240	260	305	380	405	305	250	220	1
205	200	205	245	245	260	310	370	360	320	270	240	2
190 <sub>H</sub>	200	200	210	230	260	320	425	F	F	280	245	3
190 <sub>HI</sub>	215	210	B	240	260	310	320	U360 <sub>F</sub>	360	310	290	4
200	200	205	210	225	250	300	340	C	C	325	280	5
205	200	205	220	245	C	C	380	F	F	300 <sub>F</sub>	240	6
205	205	215	A	240	265	320	C	C	320	320	280	7
210	200	215	240	245	285	385	F	F	F	U275 <sub>F</sub>	250	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	260	285	340	F	C	C	275	C	11
C	B	235	230	250	270	315	F	U310 <sub>F</sub>	280	260	270	12
B	B	B	235	240	270	305	F	U390 <sub>F</sub>	U355 <sub>F</sub>	U350 <sub>F</sub>	U370 <sub>F</sub>	13
210 <sub>H</sub>	200 <sub>H</sub>	200 <sub>H</sub>	230	A	275	U315 <sub>F</sub>	U370 <sub>F</sub>	330	290	270	265	14
215	210	205	225	240	270	300	U330 <sub>F</sub>	U325 <sub>F</sub>	340	300	265	15
205 <sub>H</sub>	200 <sub>H</sub>	200	200	235	A	U300 <sub>F</sub>	365	370 <sub>F</sub>	U335 <sub>F</sub>	U340 <sub>F</sub>	400	16
200	200	200	220	240	260	310	F	F	F	325	280	17
200	200	215	225	240	260	280	F	F	400	400	360	18
200	A	205	220	235	260	300	F	F	360	F	F	19
200	200	200	220	235	260	280	F	300	295	295	300	20
200 <sub>H</sub>	200	A	A	A	260	295	360	F	F	360	320	21
205	200	180 <sub>H</sub>	180 <sub>H</sub>	240	260	290	280	320	F	340	330	22
C	C	190 <sub>H</sub>	200 <sub>H</sub>	240	U280 <sub>A</sub>	300	325	380	F	340 <sub>F</sub>	320	23
C	C	C	C	255	280	300	340	340	280	250	250	24
210	220	200	210 <sub>H</sub>	240	280	300	F	F	F	340	360	25
200	200	B	220	240	260	300	340	400	380	340	300	26
200	200 <sub>H</sub>	215	220	U240 <sub>L</sub>	260	315	370	420	400	U380 <sub>F</sub>	360	27
200 <sub>H</sub>	210	220	220 <sub>H</sub>	U240 <sub>L</sub>	260	300	U360 <sub>F</sub>	F	F	U350 <sub>F</sub>	325	28
210	B	235	U260 <sub>L</sub>	260	295	320	F	U360 <sub>F</sub>	F	U440 <sub>F</sub>	U390 <sub>F</sub>	29
210	230	220	220 <sub>HI</sub>	U255 <sub>L</sub>	280	305	360	F	265	275	255	30
215	210	220 <sub>H</sub>	240	A	U270 <sub>A</sub>	300	360	F	U320 <sub>F</sub>	300	260	31
24	22	24	24	26	27	28	18	15	17	28	27	Count
200	200	205	220	240	260	300	360	360	320	315	280	Median
205	205	210	220	240	270	310	355	360	330	315	295	Mean

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

Characteristic : h'E  
 Unit : Km  
 Month : May, 1960

TABLE 53  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5 E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							135	A	A	A	A	A
2								120	A	A	A	A
3								115	A	A	A	C
4							135	110	A	A	A	A
5								A	A	A	A	A
6							130	120	A	A	A	A
7								A	A	A	A	A
8								105	A	A	A	A
9							130	A	A	A	A	A
10							C	C	C	C	C	C
11							C	C	C	C	C	C
12							C	C	C	C	C	C
13							120	A	A	A	A	B
14								120	A	A	A	A
15							125	115	A	B	B	B
16								A	A	A	A	A
17								A	A	A	A	A
18							105	A	A	A	A	A
19								A	A	A	A	A
20							115	100	A	A	A	A
21								A	A	A	A	A
22							C	C	C	C	A	A
23							110	A	A	A	A	A
24							C	C	C	A	A	A
25							120	110	120	120	B	A
26								A	A	A	A	A
27							130	110	105	115	A	A
28								120	120	120	120	120
29								130	B	120	A	120
30								A	A	125	C	C
31								120	115	115	115	115
<b>Count</b>							11	13	5	6	2	3
<b>Median</b>							125	115	115	120		..
<b>Mean</b>							125	115	115	120		..

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

Characteristic : h'E  
Unit . Km  
Month : May, 1960

TABLE 53 (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	A	A						1
A	A	A	A	A	A	A						2
C	A	A	A	A	A	A	A					3
A	A	110	110	B	A							4
A	A	A	A	105	A							5
A	A	A	A	A	A	A						6
A	A	A	A	A	A	130ft	C					7
A	A	A	110	A	A	A						8
A	C	C	C	C	C	C	C					9
C	C	C	C	C	C	C						10
C	A	B	A	110	A	120						11
B	B	B	A	A	110	115						12
A	A	A	A	A	A	A						13
B	A	A	A	A	A	120						14
A	A	A	A	A	A	120						15
A	A	A	A	A	A	A						16
A	A	105	100	105	115	115						17
C	A	A	105	105	115	115						18
A	A	A	105	110	120	120						19
A	A	A	C	115	125							20
A	A	A	A	A	A	A						21
A	A	A	A	A	A	110						22
A	C	C	A	110	A	A						23
A	C	C	C	C	110	110						24
B	A	A	A	A	A	A						25
A	A	A	B	A	120							26
A	A	A	A	115	A							27
A	115	120	120	120								28
A	A	B	B	A	120							29
A	A	120	120	120	120							30
B	B	115	A	A	A							31
.	1	5	7	11	13							Count
		115	110	110	120	..						Median
..	..	115	110	110	120	.						Mean

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

Characteristic : h'E  
Unit : Km  
Month : May, 1960

TABLE 53 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

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

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

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

Characteristic : h'E  
 Unit : Km  
 Month May, 1960

TABLE 53 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

Latitude . 10 2'N  
 Longitude 77°5'E

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

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



Characteristic : h'Es  
Unit : Km  
Month : May, 1960

TABLE 54  
Ionospheric Data  
75°0'E Mean Time

Latitude: 10·2 N  
Longitude: 77·5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							G	100	100	100	100	100
2							G	100	100	100	100	100
3							125	G	100	100	100	C
4							G	100	100	100	100	100
5				105				100	100	100	100	100
6							G	105	100	100	100	100
7								100	100	100	100	100
8								100	100	100	100	100
9							100	100	100	100	100	100
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	C	C	C	C	C
13	110	115					G	100	100	100	100	B
14								G	100	100	100	100
15	100						G	125	100	100	100	100
16							115	100	100	100	100	100
17			100					100	100	100	100	100
18	105						G	100	100	100	100	100
19								100	100	100	100	100
20	120			115			G	100	100	100	100	100
21	115							100	100	100	100	100
22				C	C	C	C	C	C	C	100	100
23		120	120	170	C	C	120	100	100	100	100	100
24		C	C	C	C	C	C	C	C	100	100	100
25							G	160	110	100	100	100
26	100							100	100	100	100	100
27							G	G	G	G	100	100
28					120			115	105	100	100	100
29	120	120						G	G	140	100	100
30	120	125	125	120	120	120	120	100	120	115	C	C
31		130	125	120	120			115	105	100	100	100
Count	8	5	4	5	3	1	5	21	24	26	27	25
Median	110	120	.	120			120	100	100	100	100	100
Mean	110	120	.	125	.	.	115	105	100	100	100	100

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

Characteristic : h'Es  
 Unit : Km  
 Month : May, 1960

TABLE 54 (Contd)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude: 10·2°N  
 Longitude: 77 5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	105							1
100	100	100	100	100	100	100		130	120			2
C	100	100	100	100	100							3
100	100	100	100	100	100				125	120	120	4
100	100	100	100	100	100			C	C			5
100	100	100	100	100	100	C				100		6
100	100	100	100	100	100	G					120	7
100	100	100	G	100	100	G						8
100	100	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	100	C		C		C	C		11
C	100	100	100	100	110						105	12
B	100	100	100	100	G	100			115	115	120	13
100	100	100	100	100	100	100	100	100	110		115	14
100	100	100	100	100	115		115	120	135		125	15
100	100	100	100	100	100	100			150	125	130	16
100	100	100	G	G	G					120	120	17
C	100	100	100	100	100					120	120	18
100	100	100	G	G	G	120	200				120	19
100	100	100	C	100	G			100	100			20
100	100	100	100	100	100	100	C		100	C	100	21
100	100	100	100	100	100	100	100		100	100		22
100	C	C	100	100	100	100	C	100	120	120	120	23
100	C	C	C	C	100	145	C	100	100			24
100	100	100	100	100	100	100	100			100	120	25
100	100	100	100	100	G	100			100		95	26
100	100	100	100	105	105			105	100			27
100	100	100	105	115	120	110	120		120	120	130	28
100	100	105	G	120	120	120				140	120	29
100	100	105	110	120	G	120		115	120			30
100	100	100	100	100	100	120			120			31
25	27	26	22	26	20	15	6	8	16	11	16	Count
100	100	100	100	100	100	100	110	100	120	120	120	Median
100	100	100	100	100	105	110	120	110	115	115	120	Mean

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

Characteristic : h'Es  
Unit : Km  
Month : May, 1960

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

Latitude: 10°2'N  
Longitude: 77°5'E

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

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

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

TABLE 54 (contd.)  
Ionospheric Data  
75·0°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100	105							1
100	100	100	100	100	100			125				2
100	100	100	100	100	145					125		3
100	100	100	B	100					120	120	120	4
100	100	100	100	100				C	C			5
100	100	100	100	100	C	C						6
100	100	100	100	100	100		C	C				7
100	100	100	G	100	100							8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	100	120			C	C		C	11
C	100	100	100	100	115						100	12
B	100	100	100	100				120	120	110	120	13
100	100	100	100	100	100	100	100	120	100	125	100	14
100	100	100	100	100		115	115	125	115		125	15
100	100	100	100	100	100	100			115	130		16
100	100	G	G	G						120		17
100	100	100	100	100						120	120	18
100	100	G	G	G	120							19
100	100	100	100	G				100	100			20
100	100	100	100	100	100	100		100	100	100	100	21
100	100	100	100	100	100	100		100	100	100		22
C	C	100	100	100	100	100	100	120	120	120		23
C	C	C	C	100	105	120		100	100			24
100	100	100	100	100	100	100			120		120	25
100	100	B	100	100	100	100		100		95		26
100	100	100	100	105				100	100			27
100	100	105	115	G	110	110		125	120	140	135	28
100	100	120	G	100		130			140	120	120	29
100	100	120	110	120	120	120		140	120			30
100	100	100	100	100	100	160		130	115			31
24	26	24	22	25	19	13	3	14	16	12	10	Count
100	100	100	100	100	100	100	.	120	115	120	120	Median
100	100	100	100	100	105	110	..	115	115	120	115	Mean

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

Characteristic : (M3000) F2

Unit : ..

Month : May 1960

TABLE 55  
Ionospheric Data  
75°0'E Mean Time

Latitude : 10.2°N

Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.60	2.20	J2.20F	F	F	E	2.75	2.70	2.65	2.50	2.30	2.40
2	2.90	2.80	2.75	2.95	3.15	3.20	3.25	3.15	2.90	2.50	2.50	2.40
3	3.15F	3.00	2.90	2.95	3.15	3.35	3.25	3.15	2.85	2.50	2.25	C
4	F	F	3.15	3.25	3.40	3.35	3.25	3.00	2.65	2.30	2.40	2.40
5	F	F	F	F	U3.15F	3.25	3.15	3.10	2.60	2.35	2.35	2.30
6	U2.85F	3.00	3.20	3.20	3.20	3.35	3.10	2.75	2.55	2.20	2.45	2.25
7	U3.05F	2.95	2.70	2.90	2.90	2.45	2.25H	2.80H	2.55	2.40	2.20	2.35
8	2.90	2.90	2.95	3.20	3.25	3.20	3.10	2.90	2.50	2.30	2.35	2.40
9	F	U2.70s	F	Fs	F	3.05	2.60	2.70	2.60	2.50	2.35	2.40
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	3.40	3.15	C	C	C	C	C	C
13	3.00	3.00	3.00	3.10	3.30	3.40	3.05	2.85	2.50	2.20	2.20	B
14	F	F	F	F	3.40	3.30	3.20	2.95	2.65	2.20	2.20	2.30
15	2.90	2.80	2.85	3.00	3.25	3.20	3.00	3.00	2.80	2.55	2.15	2.25
16	2.95	2.80	2.80	2.95	3.20	3.30	3.10	3.00	2.70	2.25	2.25	2.25
17	U2.35F	F	F	F	U2.50F	2.85	U2.75F	2.80	2.70	2.45	2.20	2.25
18	2.95	3.05	3.10	3.35	3.30	3.30	2.95	2.80	2.60	2.40	2.30	2.30
19	F	F	F	F	F	3.40	3.10	2.90	2.65	2.45	2.30	2.40
20	F	F	F	F	F	F	U3.20F	3.00	2.70	2.20H	2.25	2.30
21	2.80	2.90	2.95	3.10	3.30	3.45	3.20	3.00	2.70	2.30	2.30	2.25
22	2.65	2.70	2.60	C	C	C	C	C	C	C	2.40	2.30
23	F	2.70	2.80	2.95	3.30	3.50	3.00	2.90	2.60	2.30	2.35	2.35
24	F	C	C	C	C	C	C	C	C	2.45	2.35	2.20
25	3.00	2.90	2.80	3.05	U3.45SEH	2.70H	3.25	3.20	3.00	2.80	2.40	2.25
26	F	F	F	F	U3.20F	3.40	3.10	3.00	2.70	2.40	2.40	2.20
27	F	2.60	2.75	U3.00s	3.20	3.50	3.35	3.25	2.95	2.85	2.65	2.30
28	2.50	U2.40s	F	F	F	3.10	3.00	2.95	2.70	2.40	2.35	2.40
29	F	2.80	U3.00F	3.40	3.20	FH	U3.20s	3.30	3.25	2.95	2.60	2.20H
30	F	F	F	F	F	F	U2.95F	2.90	2.80	2.60	C	C
31	2.80	2.75	2.65	2.60	2.50	2.45	2.95	2.95	2.70	2.50	2.30	2.25
Count	16	19	18	16	21	23	26	26	26	27	27	2.25
Median	2.90	2.80	2.80	3.00	3.20	3.30	3.10	2.95	2.70	2.40	2.35	2.30
Mean	2.85	2.80	2.85	3.05	3.20	3.20	3.05	2.95	2.70	2.45	2.35	2.30

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

Characteristic : (M3000)F2  
 Unit : ..  
 Month : May, 1960

TABLE 55 (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
2.40	2.35	2.30	2.40	2.25	2.30	2.45	2.25	2.15	F	2.60	2.90	1
2.40	2.30	2.30	2.35	2.50	2.50	2.40	2.30	2.35	2.40	F	3.05	2
C	2.20	2.30	2.25	2.25	2.35	2.30	2.15	F	F	F	F	3
2.35	2.35	2.40	2.45	2.40	2.40	2.35	2.15	F	F	F	F	4
2.30	2.35	2.50	2.50	2.50	2.45	2.40	2.25	C	C	F	F	5
2.25	2.35	2.30	2.20	2.35	2.50	C	2.25	F	F	u2.30s	F	6
2.45	2.35	2.40	2.50	2.45	2.50	2.40	C	C	2.40	2.60	2.70	7
2.35	2.40	2.35	2.15	2.35	2.40	2.25	F	F	F	F	F	8
2.35	2.40	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	2.50	C	C	C	2.10	C	C	2.85	11
C	2.20	2.20	2.40	2.45	2.45H	2.35H	u2.15H	u2.10F	2.40	2.70	2.90	12
2.30	2.15	2.20	2.20	2.20	2.40	2.40	2.20	F	F	u2.50F	F	13
2.20	2.25	2.20	2.25	2.50	2.50	2.50	2.40	2.40	2.60	2.75	2.85	14
2.20	2.15	2.15	2.20	2.25	2.35	2.40	2.40	2.45	u2.45F	2.60	2.75	15
2.30	2.20	2.30	2.25	2.35	2.40	2.45	2.35	u2.35F	2.40	2.55F	F	16
2.25	2.45	2.60	2.65	2.75	2.80	2.60	2.40	F	F	F	F	17
C	2.40	2.40	2.30	2.30	2.40	2.40	u2.35s	F	F	F	F	18
2.55	2.55	2.55	2.70	2.75	2.80	2.75	2.50	F	F	F	F	19
2.20	2.30	2.30	C	2.50	2.60	2.65	2.60	2.70	2.70	2.75	2.70	20
2.30	2.30	2.30	2.40	A	2.65	2.70	C	2.45	F	2.45	2.55	21
2.30	2.25	2.20	2.20	2.30	2.40	2.45	2.45	F	F	F	F	22
2.40	C	C	2.40	2.40	2.50	2.60	C	2.45	F	F	F	23
2.10	C	C	C	C	u2.35s	2.25	C	2.25	2.45	u2.70s	u2.95s	24
2.40	2.35	2.30	2.20	2.20	2.35	2.35	u2.40s	F	F	F	F	25
2.25	2.25	2.40	2.30	2.40	2.40	2.50	2.40	2.40	2.40	F	F	26
2.05H	2.05	2.30	2.40	2.50	2.60	2.65	2.45	u2.40s	2.35	F	2.50	27
2.25	2.25	2.30	2.40	2.45	2.55	u2.70s	u2.50s	2.45	u2.55F	F	F	28
2.25	2.25	2.30	2.40	2.50	2.60	2.60	2.35	F	u2.30s	F	F	29
2.15	2.15	2.15	2.30	2.35	2.45	2.50	2.45	2.40	F	2.70	2.75	30
2.25	2.20	2.25	2.35	2.40	2.50	2.60	u2.55s	2.50	u2.55F	2.65	2.80	31
26	27	26	26	27	28	27	23	16	13	13	13	Count
2.30	2.30	2.30	2.35	2.40	2.45	2.45	2.40	2.40	2.40	2.60	2.80	Median
2.30	2.30	2.30	2.35	2.40	2.50	2.50	2.35	2.35	2.45	2.60	2.80	Mean

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

Characteristic : (M3000) F2

Unit : ...

Month : May 1960

TABLE 55 (Contd.)

Ionospheric Data

75°0'E Mean Time

Latitude : 10·2°N

Longitude : 77·5°E

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

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

Characteristic : (M3000)F2  
 Unit : ..  
 Month : May, 1960

TABLE 55 (Contd.)  
 Ionospheric Data  
 75° 0'E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.30	2.30	2.45	2.40	2.25	2.30	2.35	2.25	F	F	2.85	2.95	1
2.35	2.30	2.30	2.45	2.55	2.45	2.35	2.35	2.40	2.55	u2.85F	3.05	2
2.25	2.20	2.25	2.20	2.30	2.35	2.25	2.10	F	F	F	F	3
2.30	2.30	2.45	2.40	2.40	2.40	2.25	Fs	F	F	F	F	4
2.20	2.40	2.50	2.50	2.50	2.40	2.35	2.25	C	C	F	F	5
2.35	2.30	2.20	2.25	2.45	C	C	2.15	F	F	F	3.05	6
2.40	2.35	2.40	2.50	2.50	2.50	2.25	C	C	2.50	2.70	2.80	7
2.30	2.40	2.20H	2.30	2.40	2.35	2.05	F	F	F	F	F	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
C	C	C	C	2.50	2.35	u2.25CH	C	C	C	2.70	C	11
C	2.20	2.30	2.45	2.45	2.45H	2.30	F	u2.35F	2.50	2.80	3.00	12
2.20	2.20	2.20	2.30	2.40	2.40	2.35	F	F	u2.45F	F	F	13
2.20	2.25	2.20	2.35	2.50	2.50	2.45	2.30	2.45	2.65	2.80	2.90	14
2.20	2.15	2.15	2.20	2.30	2.40	2.40	2.35	2.40	2.50	2.70	2.85	15
2.20	2.25	2.30	2.35	2.40	2.45	2.45	2.30	2.40	2.45	F	F	16
2.30	2.50	2.60	2.65	2.70	2.65	2.50	F	F	F	F	2.85	17
2.40	2.40	2.35	2.30	2.30	2.45	u2.50s	F	F	F	F	F	18
2.55	2.55	2.65	2.75	2.80	u2.85s	2.65	2.40	F	F	F	F	19
2.30	2.35	2.30	2.45	2.55	2.60	2.65	u2.65F	2.70	2.70	2.75	2.75	20
2.30	2.35	2.35	2.45	2.55	2.70	2.60	2.45	F	2.45F	2.50	2.60	21
2.30	2.25	2.20	2.25	2.30	2.40	2.50	2.35	F	F	u2.50F	F	22
C	C	2.30	2.40	2.40	2.55	2.50	2.55	2.45	u2.50s	F	F	23
C	C	C	C	u2.40s	u2.30s	2.25	2.20	2.35	2.60	u2.80s	2.90	24
2.35	2.30	2.25	2.20	2.30	2.35	2.30	u2.35F	F	F	F	F	25
2.25	2.30	2.35	2.35	2.40	2.50	2.45	2.40	2.40	2.45	F	F	26
u2.10w	2.15	u2.40w	2.45	2.50	2.60	2.60	2.40	2.35	2.40	F	u2.55s	27
2.25	2.25	2.35	2.45	2.55	2.60	u2.60s	2.45	u2.45F	F	F	F	28
2.25	2.25	2.45	2.40	2.50	R	2.50	2.30	F	F	F	F	29
2.15	2.20	2.25	2.30	2.40	2.50	2.50	2.35	2.50	2.60	2.70	2.90	30
2.20	2.15	2.25	2.35	2.45	2.55	2.60	2.50	u2.55F	2.60	2.75	2.95	31
25	26	27	27	29	27	28	21	13	15	13	14	Count
2.30	2.30	2.30	2.40	2.45	2.45	2.45	2.35	2.40	2.50	2.75	2.90	Median
2.30	2.30	2.35	2.40	2.45	2.45	2.40	2.35	2.45	2.55	2.70	2.85	Mean

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



Characteristic : fo F2

Unit : Mc

Month : June, 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	C	8.1	7.1	6.8	6.4	6.9	9.1	11.4	12.3	12.3 <sup>H</sup>	12.3	11.2
2	10.9	8.8	7.8	7.0	6.5	6.1	8.6	10.9	12.0	12.7	12.8	11.8
3	F	F	F	F	F	U6.1 <sup>F</sup>	8.6	10.4	11.4	11.4	10.3	10.2
4	8.0	7.1	6.5	5.2 <sup>F</sup>	F	5.4 <sup>F</sup>	7.3	9.5	10.9	11.1	10.3 <sup>H</sup>	10.6
5	C	C	C	C	C	C	C	C	11.3	11.8	11.6	12.1
6	8.7	7.7	U7.3 <sup>F</sup>	6.6	6.0	5.5	7.7	10.4	10.9	11.7	11.5	12.4
7	U9.9 <sup>s</sup>	10.3	8.7	8.1	7.6	6.1	7.9	10.0	11.4	11.9	11.3	11.8
8	9.1	8.6	7.6	7.8	7.0	6.5	8.6	9.2	9.8	9.8	10.4	10.9
9	F	F	F	8.0	6.2	4.0	7.9	10.6	11.1	11.6	10.3	10.2
10	11.0 <sup>H</sup>	8.1	8.0	7.5	6.9	7.7	9.8	11.0	10.9	11.1	10.9	10.8
11	9.1	7.9	7.4	7.3	6.5 <sup>F</sup>	U6.5 <sup>F</sup>	8.6	9.5	10.7	10.7	10.3	10.0
12	F	F	F	F	F	F	8.8	C	11.0	11.3	10.8 <sup>H</sup>	10.0
13	7.3 <sup>F</sup>	6.7	6.7	6.2	6.4	5.7	8.0	10.0	11.1	11.6	10.8	10.4
14	7.8	F	F	F	F	5.1	7.6	9.8	10.9	U10.9 <sup>R</sup>	10.8	9.9
15	U5.9 <sup>s</sup>	5.1	5.1	F	F	F	6.6	U9.6 <sup>s</sup>	11.3	11.5	10.9	10.1
16	9.2	8.4	7.6	F	5.2 <sup>F</sup>	F	7.4 <sup>F</sup>	9.8	10.6	10.4	10.0	9.7
17	F	F	F	F	7.7	5.9	7.7	9.3	10.2	10.5	10.4	9.2
18	F	6.6	5.6	5.5	4.1	3.5	6.1	8.8	9.6	10.1	9.4	9.4
19	6.8	5.3	5.1	4.7	4.3	4.8	6.6 <sup>H</sup>	8.6	C	C	C	C
20	7.8	6.8	5.7	5.3	4.5	4.3	6.9	8.6	9.5	9.1	9.2	9.3
21	8.0	6.9	6.4	5.8	4.1	3.5	7.3	9.1	10.0	10.8	10.7	10.2
22	6.5	5.3	F	F	F	2.8 <sup>H</sup>	6.9	9.4	10.5	11.2	11.5	11.7
23	F	F	F	F	F	F	U7.9 <sup>F</sup>	9.3	9.4	C	11.8	12.1
24	U5.0 <sup>s</sup>	4.5	4.0	3.5	3.3	2.3	6.1	8.7	10.6	10.6	10.8	10.7
25	5.8 <sup>F</sup>	5.0 <sup>F</sup>	3.9	2.8	2.5 <sup>F</sup>	2.7 <sup>H</sup>	6.5	9.2	10.2	11.0	11.0	11.0
26	F	F	F	F	U2.8 <sup>F</sup>	2.6	6.8	9.4	10.0	10.5	11.4	10.6
27	4.8	4.0	3.3	3.2	3.0	2.9	6.6	U9.6 <sup>s</sup>	U9.6 <sup>R</sup>	8.9	10.2	11.2
28	F	F	F	F	E	E	7.2	10.3	10.4	11.4	12.4	12.1
29	U10.2 <sup>s</sup>	8.6	U6.4 <sup>s</sup>	4.9	3.9	3.4	6.6	9.6	11.0	12.0	12.4	11.6
30	9.0	7.0	6.2	5.3	4.6	3.9	6.8	8.4	10.0	10.4	10.6	11.1
Count	20	21	20	19	22	25	29	28	29	28	29	29
Median	8.0	7.0	6.4	5.8	4.9	4.8	7.4	9.6	10.7	11.1	10.8	10.7
Mean	8.0	7.0	6.3	5.9	5.2	4.8	7.5	9.6	10.6	11.0	10.9	10.8

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

Characteristic : fo F2  
Unit : Mc  
Month : June, 1960

TABLE 56 (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
10.9	11.3	B	12.7	12.3	U11.9s	11.8	11.3	10.1	10.4	11.1	11.4	1
10.5	10.0	10.3	10.4	10.8	11.8	12.7	11.1	F	F	F	F	2
9.7	9.9	10.6	11.5	12.4	12.6	13.0	11.2	9.9F	8.9	F	U8.6F	3
10.8	11.1	11.7	12.3	11.8	11.0H	U9.8s	9.0	9.2	C	C	C	4
12.1	11.4	10.9	11.1	11.1	11.4	11.5	11.2	10.9	10.2	10.2	9.5	5
12.0	12.4	12.5	12.4	12.6	12.6	12.0	10.7	10.2	9.7F	9.6	9.8	6
11.4	11.0	11.6	12.0	12.4	13.3	13.6	11.7	10.3	10.3	U10.6F	U9.7F	7
11.7	12.5	12.7	13.0	13.2	12.8	12.3	11.2	F	F	F	F	8
10.7	11.5	11.7	12.0	12.5	13.1	12.8	11.8	10.4	9.6	10.3	11.0	9
10.9	11.3	11.4	12.1	12.5	13.2	13.5	12.7	11.6F	U10.4F	9.8F	9.8	10
10.2	10.5	11.3	12.3	12.2	12.3	13.1	12.4	11.0	F	F	F	11
10.8	11.4	12.0	12.3	11.7	13.6	13.7	12.5	10.4	9.2	8.5	F	12
9.9	9.8	10.1	10.6	10.8	11.3	U11.8s	11.1	F	F	F	Fs	13
9.4	9.7	10.6	11.3	11.8	12.4	12.1	11.8	11.4	10.6	9.1	6.7	14
9.9	10.0	10.7	11.7	12.2	12.6	12.7	11.9	10.8	11.0	9.7	9.9	15
9.6	10.0	10.6	11.4	11.0	10.6	10.4	9.6	U8.8F	F	F	F	16
9.0	9.2	10.0	10.9	11.0	11.5	11.4	11.5	9.7	F	8.1	U7.7F	17
9.5	10.0	10.7	11.4	11.6	11.2	11.5	11.3	9.8	9.6	9.9	8.5	18
C	C	10.7	10.8	11.4	12.0	11.7	11.6	10.6	10.2	10.9	10.9	19
9.8	10.4	10.5	11.0	11.7	12.7	12.7	11.6	10.3	9.3	9.2	9.1	20
10.0	10.3	10.9	11.7	12.3	12.8	13.5	10.8	U9.5s	7.7	U7.0s	U6.6s	21
10.8	10.0	10.0	10.0	10.1	10.5	11.0	10.4	U9.3F	F	F	F	22
12.0	12.3	11.8	11.5	11.5	11.7	11.7	12.6	11.4	9.2	7.8	U6.3s	23
10.1	9.8	10.1	10.4	10.8	11.6	U12.0s	12.4	11.2	U9.5s	S	U6.3F	24
10.0	9.8	9.8	10.3	11.0	12.6	12.8	11.3	F	F	F	F	25
10.1	10.0	11.2	U12.0s	13.0	13.6	13.0	11.0	U9.3s	C	6.8H	5.7	26
12.0	12.2	12.6	12.0	12.6	13.0	13.3	12.4	11.3	F	F	F	27
11.0	10.8	11.2	11.0	10.8	11.1	11.4	U11.8s	U10.4F	9.4	9.2	9.7	28
10.8	11.0	11.2	11.4	12.0	12.6	12.0	U11.6s	F	F	U10.0F	U9.6s	29
11.7	11.8	11.8	10.7	11.0	11.4	11.5	10.2	U9.2s	F	F	F	30
29	29	29	30	30	30	30	30	25	17	18	19	Count
10.7	10.5	10.9	11.4	11.8	12.4	12.0	11.4	10.3	9.6	9.6	9.5	Median
10.6	10.7	11.1	11.5	11.7	12.2	12.2	11.4	10.3	9.7	9.3	8.8	Mean

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

Characteristic : fo F2  
Unit : Mc  
Month : June, 1960

TABLE 56 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	8.9	7.5	6.9	6.7	6.6	7.9	10.1	11.8	12.3H	12.4H	11.8	U10.9R
2	9.9	8.1	7.1	6.8	6.1	7.3	9.9	11.5	12.7	12.6	12.5	10.8
3	F	F	F	F	F	6.9	9.7	11.1	11.5	10.9	10.0	10.1
4	7.4	6.9	5.9F	F	F	6.4	8.2	10.2	11.4	11.0H	10.2	10.9
5	C	C	C	C	C	C	C	10.2	11.8	11.5	11.8	12.1
6	8.3	7.6	6.8	U6.2s	6.0	5.8	9.3	11.2	11.4	11.5	11.7	12.0
7	10.6	9.2	8.5	7.7	7.4	6.4	9.6	10.7	11.7	11.9	11.6	11.6
8	8.4	7.8	7.8	7.4	6.4	7.5	8.9	9.2	10.0	9.9	10.7	11.4
9	F	F	U8.4F	7.9	4.9	5.7	9.6	10.9	11.6	11.5H	10.1	10.4
10	9.6	7.8	7.9	7.0	7.4	8.8	10.6	10.9	10.9	10.9	11.0	10.8
11	8.4	7.9	7.3	6.9	U6.6F	7.5	9.1H	10.1	10.8	10.4	10.3	9.9
12	F	F	F	F	F	F	10.4	11.3	11.3	C	9.9	10.3
13	6.9	6.9	6.4	6.3	6.4	6.3	9.1	C	11.5	11.3	10.6	10.2
14	U7.2s	F	U5.5F	F	F	6.3	9.4	10.3	U11.0R	11.3	10.4	9.8
15	5.2	5.1	F	F	F	4.5	8.3	10.5	11.6	11.0H	10.7	10.0
16	8.6	8.2	F	F	5.3	U6.4F	8.6	10.0	10.6	10.2	9.6	9.5
17	F	F	F	7.8	7.1	6.5	8.6	10.0	10.5	10.7	9.6	9.1
18	U7.3F	5.9	5.4	4.8	3.6	4.9	7.4	9.1	10.0	9.8	9.3	9.3
19	5.7	5.1	4.9	4.3	4.8	5.4	7.8	9.2	C	C	C	C
20	7.0	6.3	5.4	4.9	4.3	5.5	7.9	9.0	9.3	9.2	9.0	9.8
21	U7.5s	6.6	5.8	4.7	3.8	5.2	8.3	9.1	10.5	10.8	10.7	10.1
22	6.0	U4.4R	F	F	F	5.0	8.6	9.7	10.9	11.1	11.6	11.5
23	F	F	F	F	F	F	9.1	9.0	10.4	C	12.1	12.0
24	U5.0s	4.1	3.6	3.6	2.9	4.5	7.6	9.4	10.7	10.8	10.9	10.6
25	5.6F	4.5	3.2	2.6	F	4.4	8.2	10.0	10.8	11.0	10.9	10.6
26	F	F	F	F	2.6	4.4	8.6	9.5	10.5	10.9	11.3	10.2
27	4.3	3.6	3.2	3.3	2.8	4.9	8.4	9.6	9.4	9.4	10.4	11.8
28	F	F	F	E	E	4.4	9.2	10.3	10.8	U12.2R	12.3	11.6
29	9.6	U7.5s	U5.4s	4.2	2.6	4.9	8.5	10.4	11.8	12.2	12.0	11.3
30	7.8	6.6	5.6	4.8	4.5	5.2	7.8	9.0	10.7	10.8	10.7	11.4
Count	22	21	20	20	21	27	29	29	29	27	29	29
Median	7.4	6.9	5.8	5.6	4.9	5.7	8.6	10.1	10.9	11.0	10.7	10.6
Mean	7.5	6.6	6.0	5.7	5.1	5.9	8.8	10.1	11.0	11.0	10.8	10.7

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic : fo F2  
 Unit : Mc  
 Month : June, 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
11·3	11·3	12·4	12·5	12·0	U12 0s	U11 8FS	J10·0R	10·3	10 8	11·4	11 4	1
9 9	10·0	10·5	10·7	10 9	12 4	11 9	10 2	F	F	F	F	2
9 8	10 0	10 9	12·3	12·3	12 8	12 2	10 4F	9 4F	8 5F	F	8 6r	3
10 9	11·4	12 0	12 5	11·2	U10 9HR	9 0	9 0	9 3	C	C	C	4
11 8	10 9	11·0	11·2	11·2	11·5	11·4	11·0	10 8	10 0	10 0	9·2	5
12·4	12·3	12·4	12 7	12·9	12 5	11·4	10 3	U9 5F	9·8	9 8	U9 9s	6
11·3	11·2	11 8	11·8	13 0	13 5	13·0	11 0	10·4	U10 6F	U10 6F	9·4	7
12 1	12 6	13·0	12 8	13·0	12·6	U11 6s	10·6F	F	F	F	F	8
11·0	11 6	11·9	12·2	12·9	13 2	12 7	11·2	10 0	9 8	11 0	11 5	9
10·9	11·4	11 7	12·5	12 7	13 4H	13·6	12 0	U10 8F	10·0F	9·8	9 8	10
10·3	10 8	11·8	12 3	12·2	12·7	12 8	U11 7s	U10 4r	F	F	F	11
11·1	11·9	C	12·0	12·8	13 8	13·3	U11 6s	9 6	8·7	8 3	7·5	12
9 7	10·0	10·3	10·7	11·0	11·6	11·7	10 4	F	F	U10 3s	F	13
9·4	10·2	11 0	11 7	12 0	12 7	12 0	11 5	11 0	10·1	8 1	6 6	14
C	10·3	11·3	11·9	12 3	12 7	12·7	11 3	10 7	10·3	9 7	9·9	15
9·6	10 3	11·0	11·2	10·8	10·6	9 6	U9 4F	F	F	F	F	16
9 0	9·6	10·4	10·7	11·2	11 4	11·7	11 0	9 3	8·3	7·5	U7 7F	17
9·7	10 4	11·0	11·6	11·6	11·4	11·7	10·8	9 6	9 4	9 8	7·1	18
C	10·6	10·8	11·0	11·8	12 0	11 7	11 0	10 4	10 5	11·0	9·2	19
10·2	10·5	10·6	11·3	12·2	12·7	12·4	10·9	9 7	9 0	9 2	8·5	20
10·0	10·5	11·5	11·9	12 7	13·3	J12 0s	10·3	8·5	U7 1s	U6 7s	6 8	21
10·6	9·8	10·1	9·9	10·3	10·8	11 0	10 0	F	F	F	F	22
12 0	12 1	11 7	11·6	11 4	11 7	12 3	13 3	9 9	8·4	6 7	5 4	23
9·4	9·9	9·8	10·7	11 4	12 6	12 1	11 6	10 5	8 8	F	U5 8s	24
10 0	10 0	10 0	10 8	11 6	13 0	12 2	10 4	F	F	F	F	25
10 2	10 7	11 8	12 5	13 3	13 6	U12 3s	U10 0s	8 7	7 0	5 8	U5 3s	26
12 0	12 6	12 4	12 3	12 6	13 0	12 8	12 0	10 9	F	F	F	27
10 6	11 0	11 1	10 9	10 9	11 1	U11 6s	11 0	U9 7s	U9 2s	9 2	10 2	28
10 6	11 2	11 0	11 6	J12 2R	12 4	U11 8s	11 4	F	F	U10 2s	9 2	29
12 0	11 6	11 4	10 8	11 4	11 8	10 8	9 6	8 2	F	F	F	30
28	30	29	30	30	30	30	30	23	19	19	20	Count
10·6	10·8	11·1	11·6	12 0	12·6	12 0	11 0	9 9	9 4	9 8	8 9	Median
10·6	10 9	11 3	11 6	11 9	12 3	11 9	10 8	9 9	9 3	9 2	8 4	Mean

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

Characteristic : fo F1  
 Unit : Mc  
 Month : June, 1960

TABLE 57  
 Ionospheric Data  
 75 0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5							C	C	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8							L	L	L	L	L	L
9								L	L	L	L	L
10							L	L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L <sup>H</sup>	L	L <sup>H</sup>	L
14								L	L	L	L	L
15								L	L	L	L <sup>H</sup>	L <sup>H</sup>
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19							L	L	C	C	C	C
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L <sup>H</sup>	L	L	L
23								L	L	C	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 : Fo F1  
 Unit : Mc  
 Month : June, 1960

TABLE 57 (Contd.)  
 Ionospheric Data  
 75 0 E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	B	B	B	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
L	L	A	L	L	L							4
L	L	L	L	L	L							5
L	L	L	L	L	L							6
L	L	L	A	L	A							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	A							11
L	L	L	L <sup>LH</sup>	L	L							12
L	L	L <sup>LH</sup>	L	L	L							13
L	L <sup>LH</sup>	L <sup>LH</sup>	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
C	C	L	L	L	L							19
L	L	L	L	L	L	L						20
L	L <sup>LH</sup>	L <sup>LH</sup>	L	L	L							21
L	L	L	L	L	L							22
L <sup>LH</sup>	L <sup>LH</sup>	L	L	L	L							23
L	L	L	L	L	L							24
S·1	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
1	..	.	..	..	..	..						Count
..	.	..	..	..	..	..						Median
	.	..	..	..	..							Mean

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

Characteristic : Fo F1  
 Unit : Mc  
 Month : June 1960

TABLE 57 (Contd.)  
 Ionospheric Data  
 75.0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2							L	L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								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	L	L	L	L
12								L	L	L	L	L
13								C	L	L	L	L <sub>H</sub>
14							L	L	L	L	L	L <sub>H</sub>
15								L	L	L <sub>H</sub>	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	C	C	C	C
20							L	L	L	L	L	L
21								L	L	L	L	L
22								L	L <sub>H</sub>	L	L	L
23								L	L	C	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26							L	L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Count								.		.	.	2
Median								.	.		.	.
Mean								.		.	.	.

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : Fo F1  
 Unit : Mc  
 Month : June, 1960

TABLE 57 (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	B	B	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 <sub>H</sub>	L <sub>H</sub>	L	L	L	L							14
C	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 <sub>H</sub>	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
1	1	.	..	.	.							Count
.	..	..	.	..	.							Median
		.	.	..	.							Mean

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



Characteristic : foE  
 Unit : Mc  
 Month : June 1960

TABLE 58  
 Ionospheric Data  
 75 0°E Mean Time

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

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

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

Characteristic : foE  
 Unit : Mc  
 Month : June 1960

TABLE 58  
 Ionospheric Data  
 75 0 E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date																																						
B	A	B	B	B	A							1																																						
A	A	A	A	A	A							2																																						
A	A	A	3·7	3·2	2·7							3																																						
A	R	A	A	A	A							4																																						
A	A	A	A	A	2·6							5																																						
A	A	A	A	A	A							6																																						
A	A	A	A	A	A							7																																						
A	B	A	A	A	A							8																																						
A	A	A	A	3·4H	A	A						9																																						
A	A	A	A	A	A							10																																						
A	A	U3·8R	A	A	A							11																																						
B	B	A	A	A	A							12																																						
A	B	A	A	A	A							13																																						
A	A	A	3·5	3·2								14																																						
A	A	A	U3·4R	3·3								15																																						
B	A	A	A	A	A							16																																						
A	A	A	A	A	A							17																																						
A	A	A	A	A	2·2							18																																						
C	C	A	A	A	A							19																																						
A	A	A	A	A	2·5	R						20																																						
A	A	A	A	U3·0R	U2·6R							21																																						
A	A	A	A	A	A							22																																						
A	A	U3·8A	A	3·2H								23																																						
A	A	A	A	3·0	A							24																																						
A	A	A	A	A	U2·8R							25																																						
A	A	A	A	3·2	R							26																																						
B	B	A	A	A	A							27																																						
A	A	A	3·6	U3·4A	2·8							28																																						
A	A	3·9	A	3·3	2·8							29																																						
A	A	A	A	A	A							30																																						
<table border="1"> <tr> <td>.</td> <td>.</td> <td>3</td> <td>4</td> <td>10</td> <td>8</td> <td>..</td> <td colspan="5"></td> <td>Count</td> </tr> <tr> <td>..</td> <td></td> <td>.</td> <td>..</td> <td>3·2</td> <td>2·6</td> <td>..</td> <td colspan="5"></td> <td>Median</td> </tr> <tr> <td>.</td> <td>..</td> <td></td> <td>..</td> <td>3·2</td> <td>2·6</td> <td>..</td> <td colspan="5"></td> <td>Mean</td> </tr> </table>												.	.	3	4	10	8	..						Count	..		.	..	3·2	2·6	..						Median	.	..		..	3·2	2·6	..						Mean
.	.	3	4	10	8	..						Count																																						
..		.	..	3·2	2·6	..						Median																																						
.	..		..	3·2	2·6	..						Mean																																						

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

Characteristic : foE  
Unit : Mc  
Month : June 1960

TABLE 58 (Contd.)  
Ionospheric Data  
75.0°E Mean Time

Latitude : 10.2°N  
Longitude : 77.5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								3.2	A	3.8	A	A
2								3.1	A	A	A	A
3								3.1	A	A	A	A
4							2.6	3.1	A	A	4.1	A
5								3.1	3.4	3.8	A	A
6							2.4H	A	A	A	A	A
7							2.5	3.1	A	A	A	A
8							A	A	A	A	A	A
9							2.8	A	A	A	A	A
10							2.7	A	A	A	B	A
11								A	A	A	A	A
12							R	A	A	A	A	B
13							2.6H	C	A	A	A	A
14							U2.3R	R	A	A	B	A
15							A	A	A	A	A	C
16							A	A	A	A	A	A
17							A	A	A	A	A	A
18							2.6	A	A	A	A	A
19							A	A	C	C	C	C
20							B	A	A	A	A	A
21								A	A	A	A	A
22							U2.5H	A	A	A	A	A
23								2.9H	3.4H	C	3.9	U3.9R
24							A	A	A	A	A	A
25							2.3	3.0	A	A	A	A
26							2.4	A	A	A	A	A
27							2.2	A	A	B	B	B
28							2.4	R	R	A	A	A
29								R	3.6	A	R	4.0
30							U2.4R	3.2	U3.4R	R	R	A
Count							14	9	4	2	2	2
Median							2.4	3.1	.	.	.	..
Mean							2.5	3.1		..		..

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

Characteristic : foE  
 Unit : Mc  
 Month : June, 1960

TABLE 58 (Contd.)  
 Ionospheric Data  
 75.0°E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	B	B	B								1
A	A	A	A	A	2.5							2
A	A	3.8	3.5	3.1	R							3
A	C	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	3.0								8
A	A	A	A	A	A							9
A	A	A	A	A								10
A	A	A	A	A	A							11
B	A	A	A	A	A							12
A	A	A	A	A								13
A	A	A	3.4	R								14
C	A	A	U3.1R	R								15
A	A	A	A	A	F							16
A	A	A	A	A								17
A	A	3.7	3.4	2.9	A							18
C	A	A	A	A	A							19
A	A	A	A	2.9	R							20
A	A	A	A	R								21
A	A	A	A	A								22
A	A	U3.7A	A	3.0								23
A	A	A	3.5	A								24
A	A	A	B	A								25
A	A	A	3.5	B								26
A	A	A	A	A								27
A	A	3.8	A	A								28
A	A	A	3.5	3.0								29
A	A	A	A	A								30
..	..	4	7	6	1							Count
..	..	..	3.5	3.0	..							Median
.	..	..	3.4	3.0	..							Mean

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

Characteristic : foEs  
Unit : Mc  
Month : June 1960

TABLE 59  
Ionospheric Data  
75°0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	C		3.3	2.5				G	10.0	7.6	10.8	11.4
2		5.0	2.8	7.0	9.2			G	G	9.4	10.9	12.0
3		2.6						G	8.0	10.4	11.4	11.4
4								G	8.4	11.0	11.0	8.0
5	C	C	C	C	C	C	C	C	G	G	10.8	12.4
6			1.8	1.9				8.0	9.0	11.5	11.4	12.0
7								8.2	G	10.8	12.0	11.8
8		4.8					6.0	10.4	10.4	11.0	10.4	12.0
9								6.0	11.8	11.0	12.0	11.4
10								8.8	9.6	9.8	11.4	11.0
11								8.5	9.6	10.4	11.9	11.7
12							G	G	7.9	10.8	11.8	11.8
13				4.9			3.0	7.9	5.8	11.5	12.0	11.4
14	9.8						G	G	G	9.8	10.8	10.9
15	U4.4s							8.6	8.3	12.2	11.8	11.8
16							2.8	9.0	9.6	10.9	11.8	11.8
17				1.7			G	6.8	8.8	10.8	11.7	12.2
18		2.4	1.7				7.4	8.5	9.2	10.6	11.8	12.2
19	4.6			2.0			G	7.6	C	C	C	C
20				3.8			5.6	8.8	10.4	10.8	10.8	11.0
21					U4.2s			G	8.7	10.8	12.6	11.8
22	2.6			3.3				3.1	9.3	10.3	11.8	11.8
23								4.8	G	C	11.6	10.8
24	U5.0s						G	8.0	9.0	8.0	12.0	11.8
25	3.6	6.0	4.6	6.2	2.8			G	4.8	11.0	12.0	12.0
26	3.0							9.8	11.3	10.8	11.6	12.0
27	7.0	8.0	6.8	6.4			G	9.0	11.0	11.2	9.0	G
28	3.2						3.0	4.0	G	G	10.4	12.6
29	2.5							G	8.2	G	11.0	9.0
30		6.0	4.1				G	7.0	7.0	B	G	7.0
Count	10	7	7	10	3	.	13	29	29	27	29	29
Median	4.0	5.0	3.3	3.6	..	.	G	7.0	8.7	10.8	11.6	11.8
Mean	4.6	5.0	3.6	4.0	..	.	4.6	7.6	9.0	10.5	11.4	11.3

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

Characteristic : foEs  
 Unit : Mc  
 Month : June, 1960

TABLE 59 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.4	12.0	B	B	B	7.8				7.0			1
10.8	11.0	10.6	9.2	8.6						2.6		2
11.2	11.4	10.0	G	G	G							3
11.6	G	19.0	9.6	9.6	8.0			4.4	C	C	C	4
12.0	11.7	11.0	9.6	9.0	G			7.0	4.6	3.0		5
12.2	12.4	10.6	10.6	9.2	7.8	6.4	3.6	7.0	8.2	11.6		6
11.6	12.2	11.4	18.4	17.0	17.0	7.8						7
10.4	B	9.6	10.4	8.6	6.8							8
11.6	12.0	12.4	11.4	7.6	9.8	8.6	3.8		8.6	6.6		9
11.2	10.8	8.0	10.0	8.0								10
11.8	11.6	8.8	10.2	10.6	11.9	C						11
11.8	11.3	11.3	10.6	9.6	9.1	10.8	8.0	4.6	3.7	6.6		12
12.4	10.9	18.7	11.8	10.8	5.9	4.8	2.9				3.3	13
12.4	11.9	11.4	G	G			1.9	6.6				14
11.9	11.6	11.1	G	G	3.0							15
10.8	11.4	10.6	10.6	9.4	6.8				3.8	2.5	2.4	16
11.6	16.2	14.0	20.0	8.3	6.8	6.0	4.6	2.0	2.1	4.0	1.7	17
11.6	11.2	11.0	8.2	9.4	6.4			2.7	2.0			18
C	C	10.8	9.5	7.0	10.6	4.1		3.7	4.0	4.8		19
11.2	10.6	11.0	9.0	6.4	G	3.6						20
11.6	11.9	9.8	5.4	G	G				2.5	u4.8s	u4.6s	21
12.4	11.4	12.0	10.4	9.0	12.8	12.6	9.0	3.0			3.0	22
10.2	10.0	11.0	8.4	8.0	8.0	u6.0s						23
12.0	13.0	11.0	8.4	G	3.4		4.4			2.8	2.8	24
12.2	12.0	12.6	9.6	9.2	G					3.0		25
12.0	10.0	9.0	9.0	G	G				C	2.4		26
G	11.0	11.0	10.0	6.0		3.2				3.2	3.0	27
12.0	11.4	10.8	7.4	7.0	G				2.0	1.8	2.0	28
13.0	9.0	12.0	8.0	G	4.0							29
12.0	12.0	12.0	12.0	10.0	8.2	2.6					2.3	30
29	28	29	29	29	26	12	8	9	11	14	9	Count
11.6	11.4	11.0	9.6	8.3	6.8	6.0	4.1	4.4	3.8	3.1	2.8	Median
11.7	11.6	11.4	10.3	9.0	8.1	6.4	4.8	4.6	4.4	4.3	2.8	Mean

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

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

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

Characteristic : foEs  
 Unit : Mc  
 Month : June 1960

TABLE 59 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.6	11.4	B	B	B							2.8	1
11.0	10.8	10.6	9.0	6.6	G				2.3	2.5		2
11.2	10.6	G	G	G								3
11.0	C	9.8	9.6	8.4				6.0				4
12.0	11.0	10.0	9.4	7.8			3.4	6.0	3.0			5
13.0	11.0	10.8	10.8	8.6	8.6		4.4	8.0	8.8	8.0		6
12.2	12.0	10.4	19.6	14.6	11.2			3.0	3.0			7
8.0	10.0	8.6	10.2	G								8
12.4	11.8	9.7	8.8	11.0	8.6	7.0		3.6	7.4			9
11.4	8.6	8.0	8.2	7.8		2.8					2.4	10
12.4	10.8	8.7	7.5	11.3	8.4	4.8			2.3	2.0	2.7	11
12.3	11.4	C	10.7	7.8	7.8	6.8	6.0	4.3	4.2	4.0		12
11.8	12.6	10.8	12.0	7.8	3.7	u4.5s		2.1			8.4	13
11.5	11.6	8.6	G	G	3.7	3.6	4.8					14
C	11.7	8.3	G	G	3.4							15
11.0	10.8	8.8	9.8	7.6	6.6			3.4	4.5	2.2	2.2	16
10.8	14.2	17.4	19.0	9.4	4.2	9.2	2.8	2.0	4.4	2.1	1.9	17
11.4	11.2	G	6.8	6.8	6.4			3.9	1.9			18
C	11.6	8.8	7.8	6.6	10.6			7.8	3.7			19
9.4	10.6	8.4	7.6	G	2.6	1.9						20
11.4	10.6	8.0	7.8	G					2.7	u7.8s	4.4	21
13.0	12.0	10.6	11.2	12.0	11.0	11.0	7.0			1.9	4.0	22
11.4	11.4	9.0	8.0	4.0	7.0							23
12.4	12.0	10.1	7.2	7.0	2.4	4.4		2.2			6.0	24
12.0	14.2	11.4	4.4	4.0	3.1	4.4						25
12.0	10.6	10.0	7.0	G	3.1						5.0	26
11.0	12.0	10.0	4.0	3.6	6.6	3.4			2.0	3.3	2.4	27
10.8	11.6	8.0	10.4	8.0	3.1					2.0	2.0	28
12.0	8.6	9.8	G	4.2	3.2			2.0				29
11.0	11.6	11.0	12.0	9.0	u7.0s	2.2						30
28	29	28	29	29	23	13	6	13	13	10	12	Count
11.4	11.4	9.8	8.2	7.0	6.4	4.4	4.6	3.6	3.0	2.4	2.8	Median
11.5	11.3	9.8	9.6	7.9	6.0	5.1	4.7	4.2	3.9	3.6	3.7	Mean

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



Characteristic : fbEs  
Unit : Mc  
Month : June, 1960

TABLE 60  
Ionospheric Data  
75°0'E Mean Time

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

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

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

Characteristic : fbEs  
 Unit : Mc  
 Month : June, 1960

TABLE 60 (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
4.2	4.2	B	B	B	3.2				2.4			1
4.2	4.0	3.8	3.7	3.2								2
4.0	4.0	4.1	G	G	G							3
4.1	G	5.3	3.8	3.8	2.7			1.9	C	C	C	4
4.1	4.0	3.8	3.5	3.2	G			1.9	2.2	1.8		5
4.2	4.1	3.9	3.7	3.3	3.0	2.2		2.6	2.6	3.2		6
4.4	4.2	3.9	7.8	4.4	8.0	2.5						7
4.2	B	4.2	3.7	3.5	2.8							8
4.5	4.4	4.0	3.7	3.5	5.0	5.0	2.2		2.0	2.5		9
4.4	4.2	4.0	3.9	3.5								10
4.4	4.4	4.0	4.4	3.8	5.5	3.1						11
4.8	4.7	4.2	3.8	3.8	3.8	4.6	2.8	2.5	2.1	2.3		12
4.4	4.6	4.8	4.0	3.4	2.9	1.8	2.1					13
4.3	4.2	3.9	G	G			1.8	2.2			2.1	14
4.5	4.4	4.2	G	G								15
4.4	4.1	4.1	3.8	3.4	2.8				2.7	2.1		16
4.2	4.2	4.0	6.0	3.3	3.2	3.2	2.4	1.7		2.3		17
4.2	4.0	3.9	3.6	3.2	2.7			1.8	1.8			18
C	C	3.8	3.7	3.3	3.0			2.2	1.9	2.4		19
4.0	4.2	4.0	3.6	3.2	G	1.9						20
3.9	3.9	3.7	3.5	G	G				1.7	1.8		21
4.2	4.8	3.9	3.8	3.7	5.2	4.2	4.2				1.5	22
4.0	4.0	4.0	3.7	3.4	3.4	2.4						23
4.0	4.0	3.8	3.6	G	2.8		2.2				1.7	24
4.0	4.2	4.0	4.0	4.6	G					2.2		25
4.2	4.0	4.2	3.6	G	G				C	1.5		26
G		4.0	3.6	3.3		2.2				1.8	1.4	27
4.2	4.2	4.0	3.7	3.4	G							28
7.2	4.1	4.6	3.8	G	3.0							29
4.2	4.0	4.0	3.8	3.6	3.0	2.2						30
29	27	29	29	28	25	12	7	8	9	11	4	Count
4.2	4.2	4.0	3.7	3.3	2.9	2.4	2.2	2.0	2.1	2.2	..	Median
4.3	4.2	4.1	4.0	3.5	3.7	2.9	2.5	2.1	2.2	2.2	..	Mean

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

Characteristic : fbEs  
Unit : Mc  
Month : June, 1960

TABLE 60 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

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

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

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

Characteristic : fbEs  
 Unit : Mc  
 Month : June, 1960

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

Latitude : 10.2°N  
 Longitude : 77.5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.1	4.2	B	B	B								1
4.2	4.0	3.9	3.5	3.3						1.6		2
4.2	4.0	G	G	G								3
4.0	C	4.4	3.9	3.1			1.8	2.0				4
4.1	3.9	3.7	3.4	3.0				2.2	1.8			5
4.1	4.0	3.9	3.5	3.1	2.4		1.7	2.6	2.4	2.8		6
4.5	4.0	3.9	4.2	8.2	5.0			1.7	1.4			7
4.4	4.2	4.1	3.6	G								8
4.2	4.1	4.0	3.6	4.7	5.0	2.3		2.2				9
4.2	4.1	3.9	3.6	3.2		2.3					1.9	10
4.3	4.2	4.0	3.8	5.2	4.2	2.5			1.9	1.9		11
4.4	4.4	4.1	3.7	3.8	3.5	3.2	2.7	2.5	2.0	2.5		12
4.3	4.4	4.3	3.7	3.2	2.5	2.0		1.8			1.6	13
4.2	4.0	3.8	G	G	3.0	2.7	2.1					14
C	4.3	3.8	G	G	2.5							15
4.2	4.0	4.0	3.6	3.2	2.5			2.0	2.5	2.2		16
4.0	4.0	5.0	4.4	3.2	2.8	3.0	1.9		3.0		1.8	17
4.2	4.0	G		3.0	2.3			2.0	1.9			18
C	4.0	3.8	3.8	3.3	2.4			2.6				19
4.0	3.9	3.8	3.4	G	2.5							20
4.1	4.0	3.8	3.5	G					1.6	1.6	1.8	21
4.4	4.0	3.8	3.7	4.4	4.4	4.0	3.0				1.8	22
4.4	4.1	3.8	3.7	3.2	3.2							23
4.1	4.0	3.8	4.0	3.2		2.8					2.6	24
4.2	4.0	4.0	4.0	3.0	2.6	1.8						25
4.0	3.9	4.0	3.5	G	2.6						1.9	26
4.4	3.9	4.0	3.6	3.2	2.5				1.3	1.7		27
4.4	4.0	3.8	3.6	3.1	2.5							28
4.2	4.1	4.0	G	3.4	2.6							29
4.2	4.1	3.9	3.6	3.3	2.6	1.5						30
28	29	29	28	29	21	11	6	10	10	7	7	Count
4.2	4.0	3.9	3.6	3.2	2.6	2.5	2.0	2.1	1.9	1.9	1.8	Median
4.2	4.1	4.0	3.7	3.6	3.0	2.6	2.2	2.2	2.0	2.0	1.9	Mean

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

Characteristic : fmin  
Unit : Mc  
Month : June, 1960

TABLE 61  
Ionospheric Data  
75°0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	C	1.6	1.5	1.7	C	2.0	2.3	2.4	2.4	2.8	3.0	3.1
2	1.7	1.6	1.4	1.4	1.3	1.9	2.2	2.5	2.3	2.5	2.7	2.8
3	1.3	1.3	1.2	1.5	1.4	1.5	2.2	2.0	2.2	2.9	2.7	3.0
4	1.5	1.7	2.0	1.5	1.5	1.3	2.2	2.2	2.1	2.4	2.7	3.0
5	C	C	C	C	C	C	C	C	2.5	3.1	2.5	2.8
6	1.4	1.5	1.5	1.5	1.5	1.7	2.2	1.7	2.0	2.5	2.8	2.9
7	2.2	2.2	3.0	1.6	1.4	1.7	2.3	1.6	2.8	2.8	2.8	3.0
8	1.7	2.0	1.6	1.6	1.3	1.8	2.2	1.8	2.3	2.6	3.1	3.2
9	2.1	1.7	1.7	1.6	1.7	1.7	2.4	2.2	2.5	2.6	3.4	3.6
10	1.7	1.9	1.6	1.7	2.2	2.0	2.4	2.0	2.2	2.4	2.8	4.2
11	1.3	1.6	1.7	1.6	1.8	1.7	2.3	1.9	2.3	2.6	2.8	3.2
12	2.0	1.5	1.4	1.6	1.6	1.7	1.9	1.8	2.1	2.4	3.0	4.6
13	1.9	1.8	1.6	1.6	1.7	1.7	2.5	2.0	2.5	2.8	2.7	3.0
14	1.6	1.4	1.4	1.5	1.5	2.1	1.7	1.7	2.5	2.6	2.9	3.3
15	1.7	2.1	1.3	1.8	1.5	1.6	2.4	1.8	4.5	2.5	2.7	2.9
16	1.2	1.4	1.2	1.7	1.9	1.7	1.8	1.7	2.6	2.6	2.7	2.6
17	2.0	2.1	1.9	1.3	1.9	1.5	1.8	1.7	2.0	2.3	2.4	2.6
18	1.6	1.2	1.4	1.6	1.4	1.7	1.8	1.7	2.2	2.7	2.5	2.8
19	1.4	1.4	1.5	1.1	1.2	1.4	1.9	1.7	C	C	C	C
20	2.5	2.2	1.4	1.7	2.0	1.7	1.5	1.7	2.1	2.5	2.6	2.7
21	1.2	1.1	1.1	1.2	1.4	1.6	2.2	1.6	1.9	2.4	2.6	2.7
22	1.8	1.3	1.3	E	1.3	1.6	2.2	1.6	2.1	2.3	2.5	2.4
23	1.7	1.9	1.5	1.6	1.7	1.5	2.2	1.7	2.4	C	2.2	2.5
24	1.4	1.2	1.4	1.7	1.4	1.3	1.6	1.6	1.9	2.2	2.4	2.6
25	1.8	1.7	1.3	1.1	1.4	1.8	2.2	1.4	2.0	2.2	2.4	2.5
26	1.5	1.4	1.7	1.1	1.4	1.4	2.0	1.7	1.8	2.2	4.5	2.8
27	1.3	E	1.6	1.5	1.6	1.4	1.4	1.7	2.2	2.4	4.6	4.4
28	1.1	1.6	1.4	1.5	E	E	1.6	1.8	3.0	2.6	2.6	2.8
29	1.5	1.1	1.1	1.5	1.3	1.5	2.2	3.3	2.4	2.8	2.5	2.8
30	1.1	1.1	E	1.8	1.3	1.6	1.8	1.9	2.4	4.6	3.0	3.1
Count	28	29	29	29	28	29	29	29	29	28	29	29
Median	1.6	1.6	1.4	1.6	1.4	1.7	2.2	1.7	2.3	2.6	2.7	2.9
Mean	1.6	1.6	1.5	1.5	1.5	1.6	2.0	1.9	2.4	2.6	2.8	3.0

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

Characteristic : fmin  
 Unit : Mc  
 Month : June, 1960

TABLE 61 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
4·0	3·1	B	5·7	4·2	3·2	2·2	1·1	1·4	1·4	2·0	1·5	1
3·1	2·7	2·5	2·8	2·4	2·6	2·1	1·6	1·6	1·7	1·6	1·3	2
3·1	3·0	2·8	3·0	2·4	2·0	1·9	1·4	1·6	1·4	1·5	1·5	3
3·0	3·4	2·7	2·8	2·3	2·2	1·9	1·4	1·4	C	C	C	4
3·0	3·0	2·4	2·4	2·2	2·0	1·8	1·3	1·2	1·3	1·5	1·2	5
3·0	2·8	3·0	2·6	2·3	2·0	1·6	1·3	1·1	1·6	1·6	2·6	6
3·1	2·9	2·6	2·5	2·1	2·2	1·6	1·4	1·3	1·6	1·6	1·7	7
3·1	5·0	3·0	2·5	2·2	2·2	2·0	1·4	1·6	1·6	1·8	2·1	8
3·1	3·3	2·9	2·6	2·3	1·8	1·6	1·2	1·6	1·5	1·9	2·4	9
3·5	2·8	2·7	3·0	2·0	3·0	2·1	1·4	1·5	1·5	1·5	1·8	10
3·2	3·1	3·1	2·5	2·1	C	C	1·7	1·8	1·8	1·8	1·9	11
4·4	3·8	3·3	3·0	1·9	1·8	2·0	1·4	1·1	1·2	1·7	2·0	12
2·8	4·2	2·7	2·5	2·1	1·6	1·6	1·3	1·4	2·0	1·6	1·6	13
2·8	2·8	2·6	2·7	2·8	3·0	2·2	1·7	1·5	2·0	1·7	1·3	14
3·2	3·0	2·8	2·8	2·6	2·8	2·1	1·7	1·4	1·3	1·4	1·5	15
3·8	2·7	2·9	2·6	2·1	1·8	1·9	1·4	1·3	1·2	1·4	1·1	16
2·5	2·5	2·4	2·2	2·3	2·1	1·4	1·3	1·5	1·3	1·4	1·3	17
2·8	3·0	2·6	2·8	2·2	1·7	2·0	1·6	1·7	1·0	1·6	1·4	18
C	C	2·6	2·3	1·9	2·0	2·0	1·4	1·4	1·6	1·6	2·7	19
2·7	2·8	2·3	2·5	1·8	1·8	1·6	1·5	1·6	1·7	1·6	1·8	20
2·6	2·5	2·5	2·2	2·3	2·2	2·0	1·4	1·8	1·6	1·2	1·6	21
2·5	2·5	2·4	2·1	1·7	1·6	1·1	U1·2s	1·1	1·5	1·5	1·2	22
3·0	2·8	2·4	2·3	2·0	1·8	1·5	2·0	1·8	1·8	1·3	1·5	23
2·8	2·8	2·6	2·6	2·4	1·9	2·2	1·3	1·4	1·4	1·6	1·3	24
2·7	2·6	2·6	2·6	2·6	2·0	2·0	1·5	1·8	1·6	1·7	2·0	25
2·8	3·0	2·6	2·2	2·2	2·4	2·0	1·2	1·8	C	1·1	1·5	26
4·2	4·4	2·8	2·6	2·0	3·0	1·7	1·3	1·5	1·3	E	E	27
3·0	2·8	2·8	2·5	2·2	2·0	2·0	1·2	1·6	1·5	1·3	1·6	28
3·0	3·0	2·7	2·8	2·5	2·4	2·1	1·2	1·5	1·4	1·3	1·1	29
2·4	2·6	2·5	2·4	3·0	2·3	1·6	1·4	1·5	1·3	1·4	1·5	30
29	29	29	30	30	29	29	30	30	28	29	29	Count
3·0	2·9	2·6	2·6	2·2	2·0	2·0	1·4	1·5	1·5	1·6	1·5	Median
3·1	3·1	2·7	2·7	2·3	2·2	1·9	1·4	1·5	1·5	1·5	1·6	Mean

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

Characteristic : fmm  
Unit : Mc  
Month : June 1960

TABLE 61 (Contd.)  
Ionospheric Data  
75 0°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	11 0
1	1.7	1.7	1.4	1.5	1.8	2.3	2.7	2.5	2.6	2.9	3.1	3.3
2	1.6	1.4	1.2	1.4	1.2	2.4	2.8	2.4	2.5	2.5	2.8	3.0
3	1.4	1.4	1.4	1.4	1.3	2.0	2.9	2.2	2.6	2.6	2.9	3.2
4	1.1	1.5	1.6	1.5	1.6	2.0	2.1	1.9	2.4	2.4	3.2	2.7
5	C	C	C	C	C	C	C	2.1	2.8	3.0	2.6	3.1
6	1.8	1.3	1.8	1.7	1.6	1.9	2.0	1.8	2.3	2.5	2.8	3.0
7	2.2	2.6	2.4	1.6	1.7	1.9	2.0	2.0	3.0	2.9	2.8	3.0
8	1.8	2.0	1.3	1.3	1.6	2.2	1.7	2.0	2.4	2.6	3.2	3.1
9	1.8	1.7	1.6	1.7	1.6	2.1	2.5	2.3	2.4	3.0	3.2	3.4
10	2.0	2.0	1.8	1.7	1.9	2.4	2.2	2.0	2.4	2.6	4.1	3.2
11	1.8	1.6	1.6	1.6	1.8	2.2	2.2	2.3	2.6	2.5	3.0	3.2
12	1.6	1.4	1.6	1.5	1.8	C	2.1	1.8	2.3	2.6	3.8	4.8
13	2.0	1.7	1.8	1.5	1.6	2.3	2.1	C	2.6	2.6	2.8	3.0
14	1.5	1.6	1.4	1.4	1.6	2.6	1.9	2.4	2.5	2.7	3.8	3.0
15	2.2	1.5	1.4	2.2	1.5	2.0	2.0	2.1	2.5	2.5	2.8	C
16	1.8	1.6	1.9	1.1	1.7	2.2	1.8	1.9	2.6	2.5	2.6	2.8
17	2.3	2.1	2.1	1.8	1.8	2.0	1.7	2.0	2.1	2.3	2.5	2.6
18	1.1	E	1.8	1.4	1.5	1.9	1.9	2.0	2.6	2.5	2.8	3.2
19	1.4	1.2	1.3	1.6	1.4	1.4	1.7	1.9	C	C	C	C
20	2.3	2.2	2.0	1.7	1.8	2.0	3.0	1.8	2.2	2.3	2.9	2.7
21	1.2	1.1	1.3	1.2	1.4	1.6	1.2	1.8	2.2	2.5	2.7	2.7
22	1.9	1.2	E	1.5	1.9	1.6	1.8	1.6	2.3	2.2	2.6	2.6
23	2.0	1.7	1.6	1.5	1.6	1.8	2.4	1.8	2.2	C	2.6	3.0
24	1.0	1.2	1.5	1.5	1.4	1.6	1.4	1.7	2.1	2.4	2.6	3.0
25	1.5	1.5	1.6	1.1	2.4	1.8	1.6	1.8	2.4	2.3	2.6	2.6
26	1.7	1.7	1.6	1.4	1.2	1.5	1.7	2.0	2.1	2.6	2.6	2.6
27	1.1	1.1	1.5	1.4	1.5	2.0	1.7	1.9	2.3	5.2	4.4	4.4
28	1.3	1.4	1.5	E	E	1.7	1.9	2.6	2.4	2.6	2.6	2.7
29	1.4	1.2	1.4	1.2	1.4	1.7	2.7	2.6	2.6	2.4	2.8	3.0
30	E	1.1	1.1	1.5	1.4	1.8	1.7	2.0	2.8	3.0	2.7	2.6
Count	29	29	29	29	29	28	29	29	29	28	29	28
Median	1.7	1.5	1.6	1.5	1.6	2.0	2.0	2.0	2.4	2.6	2.8	3.0
Mean	1.7	1.6	1.6	1.5	1.6	2.0	2.0	2.0	2.4	2.7	3.0	3.0

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : fmin  
 Unit : Mc  
 Month : June, 1960

TABLE 61 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3·4	3·3	7·6	4·8	4·0	2·7	1·5	1·4	1·6	2·1	1·9	1·6	1
2·9	2·6	3·0	2·7	2·3	2·1	1·7	1·7	1·5	1·4	1·4	1·5	2
3·1	3·0	3·0	2·8	2·2	1·6	1·6	1·5	1·5	1·5	1·5	1·4	3
3·0	C	2·5	2·6	2·2	2·3	1·5	1·5	1·3	C	C	C	4
2·8	2·8	2·5	2·3	2·0	2·3	1·7	1·2	1·1	1·4	1·5	1·0	5
3·0	2·8	2·7	2·4	2·2	1·7	1·6	1·1	1·0	1·7	1·7	2·4	6
3·0	2·9	2·6	2·3	2·2	1·8	1·8	1·3	1·6	1·1	2·0	1·8	7
3·2	3·1	2·7	2·6	2·2	2·5	1·4	1·7	1·6	1·7	1·7	2·0	8
3·2	3·0	3·0	2·6	2·1	1·4	1·3	1·7	1·4	1·8	2·5	2·3	9
3·0	3·0	2·5	2·2	1·6	2·6	2·0	1·3	1·3	1·3	1·6	1·9	10
3·2	3·1	3·2	2·4	2·2	1·6	1·3	2·1	1·6	1·3	1·6	2·2	11
4·1	3·2	3·2	2·6	1·6	2·1	2·3	1·2	1·4	1·2	1·4	1·9	12
3·0	2·8	2·5	2·3	1·8	1·3	E	1·4	E	2·1	1·7	1·5	13
2·6	2·7	2·8	2·7	2·9	1·8	1·5	1·4	2·2	1·9	1·5	1·5	14
C	2·8	2·7	2·5	2·6	2·2	1·7	1·6	2·0	1·9	1·2	1·2	15
2·7	2·9	3·0	2·3	2·2	1·9	1·4	1·3	1·3	1·1	1·2	1·0	16
2·5	2·5	2·4	2·4	2·3	1·9	1·5	1·2	1·5	1·1	1·1	1·3	17
2·9	2·7	2·6	2·3	2·1	1·4	1·7	1·5	2·0	1·3	1·5	1·6	18
C	2·6	2·4	2·2	2·2	1·7	1·6	1·6	1·6	1·7	1·8	2·4	19
2·8	2·5	2·5	2·2	1·9	1·6	1·5	1·6	1·3	1·4	1·2	1·4	20
2·6	2·7	2·4	2·4	2·4	2·3	1·4	1·4	1·6	1·2	1·4	1·5	21
2·4	2·5	2·3	1·9	1·7	1·5	u1·2s	1·2	1·5	1·6	1·5	1·3	22
2·8	2·6	2·5	2·2	2·0	1·6	2·1	2·0	1·8	1·7	1·3	1·4	23
2·6	2·4	3·0	2·4	2·1	2·2	1·8	1·4	1·5	1·8	1·9	1·4	24
2·8	2·6	2·4	3·4	2·3	2·2	1·3	1·5	1·7	1·5	1·5	1·6	25
2·7	2·6	3·0	3·0	3·4	2·2	1·5	1·6	1·5	1·2	1·4	1·2	26
3·4	3·0	2·6	2·4	2·4	2·0	1·5	1·3	1·2	1·2	E	1·2	27
2·7	2·8	2·6	2·4	2·2	1·8	1·5	1·5	1·4	1·5	1·3	1·0	28
3·0	3·2	2·8	2·4	2·2	2·0	1·4	1·5	1·5	1·5	1·3	1·5	29
2·6	2·6	2·6	2·4	2·6	1·9	1·3	1·5	1·5	1·3	1·8	1·1	30
28	29	30	30	30	30	30	30	30	29	29	29	Count
2·9	2·8	2·6	2·4	2·2	1·9	1·5	1·5	1·5	1·5	1·5	1·5	Median
2·9	2·8	2·8	2·5	2·3	1·9	1·6	1·5	1·5	1·5	1·6	1·6	Mean

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



Characteristic : h'f2  
 Unit : Km  
 Month : June, 1960

TABLE 62  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L 260	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5							C	C	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8							L	L	L	L	L	L
9							L	L	L	L	L	L
10							L	L	L	L	L	L
11								L	L	L	L	L
12								L	L	L <sub>H</sub>	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	C	C	L	C
20							L	L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	C	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 260	L	L	L	L
29								L	L	L	L	L
30								L	300	280	L	L
Count								2	1	1	.	.
Medián								.	.	.	.	.
Mean								.	.	.	.	.

Sweep 1.0 Mc to 25.0 Mc, in 27 seconds.

Characteristic : h'f2  
 Unit : Km  
 Month : June, 1960

TABLE 62 (Contd.)  
 Ionospheric Data  
 75 °E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	B	B	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
L	L	L	L	L	L <sub>H</sub>							4
L	L	L	L	L	L							5
L	L	L	L	L	A							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L <sub>H</sub>	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
C	C	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
325	L	L	L <sub>H</sub>	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
1	2	..	..	..	..	.						Count
..	.	..		..	.	..						Median
..	.	.	..	..	.	..						Mean

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

Characteristic : h'f2  
 Unit : Km  
 Month : June, 1960

TABLE 62 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2							L	L	L	L	330	L
3								L	L	L	L	L
4								280	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
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	LH
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	C	C	C	C
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	LH	U300L
23								L	L	C	L	290
24								L	L	L	L	L
25								L	L	L	L	L
26							L	L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	300	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 : June, 1960

TABLE 62 (Contd.)  
 Ionospheric Data  
 75.0 E Mean Time

Latitude : 10.2°N  
 Longitude : 77.5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	B	L	L								1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
L	L	L	L	L	L <sup>H</sup>							4
L	L	L	L	L	L							5
L	L	L	L	L								6
L	L	L	L	L	A	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	C	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
C	L	L	L	L	u350L							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
C	L	L	L	L	L	L						19
L	L	L	L	L	L	L						20
u365L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
u310L	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
2	.	..	.	1	..							Count
..	..	.	..		..							Median
..	..	..	..	..	..							Mean

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

Characteristic : h'F  
Unit : Km  
Month : June, 1960

TABLE 63  
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	C	280	320	320	315	295	260	245	235	210H	215	220H
2	245	255	300	340	340	300	260	240	220	220	200H	215
3	320	300	300	280	250	230	260	240	220	220	215	205
4	280	300F	365	435	400	270	260	240	220	220	205	200H
5	C	C	C	C	C	C	C	C	235	220	205	220
6	315	335	320	265	260	245	265	255	220H	225	215	215
7	270	275	300	280	270	230	260	240	235	230	215H	220
8	280	290	280	280	255	250	275	240	235	230H	220H	215
9	U340F	U280F	U265F	250F	230	235	265	245	235	215	230	215
10	255	270	310	340	305	260	275	240	235	215H	210H	235
11	280	300	300	280	260	245	270	240	230	220	210	200
12	F	400	380	U365F	330	245	265	240	240	210H	210	220
13	305	300	320	320	270	245	270	250	225H	240	205	205
14	350	390	420	370	300	260	270	245	235	220	215	200
15	240	260	320	F	F	400	280	240	B	200	200	195
16	250	285	350	U400F	365	270	275	245	225	215	215	215
17	310	290	290	270	240	230	260	235	225	220	210	205
18	280	320	300	245	225	260	260	240	210	210	200H	195
19	240	260	315	350	305	275	260	230	C	C	C	C
20	270	300	345	340	305	260	265	240	210	200	200	215
21	250	245	255	275	280	260	265	240	215	200	205	200H
22	320	390	F	F	F	270	260	230	210H	215	205	185
23	360F	320	280	260	240	240	250	240	205H	C	210	210H
24	340	320	290	260	230	240	260	230	230	210	220	205
25	310	290	355	420	380	240	260	240	230	220	220	200
26	420F	F	F	450F	260	240	260	U240A	230	220	B	200
27	330	340	300	300	280	260	260	240	225	220	B	B
28	U480F	F	F	F	E	E	260	235	240	220H	230	220
29	290	300	340	380	340	280	270	250	220	220	A	200H
30	300	340	380	295	240	240	240	240	220	B	220	220
Count	27	27	26	26	27	29	29	29	28	27	26	28
Median	300	300	310	310	280	260	260	240	225	220	210	210
Mean	305	305	320	320	290	260	265	240	225	215	210	210

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : h'F  
 Unit : Km  
 Month : June, 1960

TABLE 63 (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
220	200H	B	B	B	270	290	340	335	295	260	245	1
200H	200H	205	215	230	255	270	335	F	F	400	340	2
205	200	220H	220	205H	250	280	320	F	F	320	300	3
205	220	A	240	270	260H	295	315	280	C	C	C	4
210H	220H	210	235	235	260	280	300	300	300	300	300	5
230	220H	220	230	230H	260	290	U370F	375	370F	350	300	6
215	215	200	A	A	A	290	340	U380F	370	325	280	7
210	B	230	235H	235	255	285	U360F	F	F	F	F	8
215	200H	220	235	250	A	A	360F	U400F	410	380	305	9
215H	220	220	230	240	255	280	340	U310F	U350F	325	300	10
220	225	220	U240A	U250A	A	290	340	F	F	F	F	11
B	230	220	230H	A	A	A	320	U345F	360	400	360	12
200	U230B	A	240	250	270	290	345	F	F	F	U305F	13
200	200	220	220	240	255	280	315	290	255	240	240	14
215	225	220	200H	235	260	285	320	340	320	290	265	15
215	190H	200	220	225	250	280	335	380	405	360	325	16
200	195	210	A	225	250	U280A	330	365	U380F	355	310	17
195	200	200H	215	215	235	260	280	290	285	260	225	18
C	C	220	220	220	260	275	305	325	285	265	260	19
220	220	210	205	215	245	260	285	300	340	320	290	20
195	195H	185H	215	230	245	260	265	300	315	300	300	21
200	A	220H	220	U250A	A	A	U360A	360F	F	440F	F	22
180H	200H	225	230	225	260	280	295	300	310F	320	340	23
205	200	200	185H	240	250	265	280	280	295	305	300	24
210	200	200	230	A	250	265	300	320F	400F	420F	400	25
200	195H	230	230	230	250	260	260	280	C	320	320	26
220	220	220	210	240	260	280	320	330	380F	400F	460F	27
205	200	220	225	220	250	275	320	280F	U300F	320	300	28
A	205	A	220	240	245	270	320	320	360F	315	300	29
220	200	200	220	240	260	280	350	U400F	U460F	U460F	U440F	30
27	27	26	27	26	25	27	30	25	22	26	26	Count
210	200	220	220	235	255	280	320	320	345	320	300	Median
210	210	215	225	235	255	280	320	325	345	335	310	Mean

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

Characteristic : h'F  
Unit : Km  
Month : June, 1960

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

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	260	315	335	320	300	300	260	240	220	225	200H	215
2	250	280	335	350	320	300	240	230	220	220	215	200
3	305	300	300	F	240	260	240	235	220	215	205	200
4	285	325	400	F	340	250	250	240	220	210	200	205
5	C	C	C	C	C	C	C	235	230	220H	A	2 5H
6	330	335	300	260	255	270	255	230	235	220	215	215
7	275	280	300	280	240	255	255	235	230	215	220	220H
8	280	300	280	270	240	295	265	235	235	225	220H	2 5H
9	U320F	U270F	260	240	230	280	255	235	225	235	225	215H
10	255	300	340	325	275	280	260	235	225	220H	220	215H
11	295	305	290	270	255	290	255	235	225	215	205	230
12	390	395	370	350	290	C	260	225H	230	220	225	B
13	305	315	320	300	240	275	260	C	240	220	200	205H
14	360	U400F	395	345	265	295	250	235	230	220	220	200H
15	250	290	F	F	F	295	260	240	220	200	200	C
16	265	300	F	F	310	290	260	240	230	210	205H	205
17	300	300	280	250	230	255	250	230	225	215	200	200
18	300	315	280	225	235	295	245	230	210	205	205	200H
19	240	285	335	340	290	290	240	220	C	C	C	C
20	280	315	360	325	270	290	260	230	205	205	220	215
21	245	245	270	280	270	260	250	220	215	205	210	190
22	360	440	F	F	F	265	240	235	215	205	200	190
23	340F	300	270	245	240	245	250	225	200H	C	200H	200
24	340	300	270	260	230	275	245	230	220	205	210	200
25	285	310	400	400	300	265	235	230	220	210	210	200
26	F	F	F	360F	240	270	250	A	220	215	200	200
27	340	300	310	280	280	280	260	230	220	B	B	225
28	520F	F	F	E	E	300	260	235	220	200H	200	210
29	300	320	360	360	305	300	260	240	220	215	200H	A
30	310	360	360	240	240	265	260	240	235	220	220	220
Count	28	27	24	24	27	28	29	28	29	27	27	26
Median	300	300	315	290	265	280	255	235	220	215	205	205
Mean	305	315	320	300	265	280	255	235	225	215	210	210

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

Characteristic : h'F  
 Unit : Km  
 Month : June, 1960

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

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

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
200	220	B	B	280	280	305	350	305	265	250	255	1
200H	200	215	220	240	260	280	F	F	F	F	320	2
200	200	220H	220	235	260	280	F	F	340	300	295	3
200H	C	A	250	255H	270	300	300	270	C	C	C	4
215H	220	220	235	240	270	300	300	300	300	300	310	5
220	230	230	235	250	275	320	U370F	380F	355F	330	280	6
225H	210H	225	A	A	A	300	370	U370F	350	300	275	7
210	240	235H	240	245	270	315	F	F	F	F	U355F	8
210	215	230	240	A	A	305	U400F	405	390	345	280	9
220H	220H	215	235	240	270	300	365	F	U345F	315	285	10
215	210	220	240	A	U300A	300	345	F	F	F	F	11
220	220	225	230	A	U280A	U295A	335	355F	370	385	330	12
200	220H	245H	240	255	275	300	U390F	F	F	320	330	13
195	195	220	220	235	275	300	F	260	260	240	235	14
C	240	200H	235	250	270	300	U345F	335	300	280	250	15
205H	205	200	200H	235	265	300	360	U395F	U380F	345	U300F	16
195	200H	A	A	235	260	U300A	350	365	U400F	340	290	17
200H	195H	200H	210	225	250	270	290	295	280	245	225	18
C	215	220	225	245	260	290	315	320	275	260	260	19
200H	200	210	220	235	255	270	295	315	335	315	260	20
195H	200	215	225	235	260	260	U290F	315	305	300	295	21
230	190	200H	225	A	A	A	365	F	U400F	390F	380	22
215	225	220	230	235	U275A	280	300	300	320	330	340	23
200	205	195	240	240	260	270	285	295	300	320	330	24
200	200	210	A	230	260	280	305	380F	420F	400	400F	25
195H	180H	230	220	240	250	260	280	280	280	320	320	26
220	220	220	240	240	260	280	340	350	U360F	440F	480F	27
200H	220	225	220	240	260	295	340F	320F	320	300	285	28
200	220	220	220	240	260	285	320	360F	320	300	300	29
210	200	210	230	245	260	295	U385F	U440F	U460F	U440F	460	30
28	29	27	26	25	27	29	26	23	25	26	28	Count
200	215	220	230	240	260	295	340	320	335	320	300	Median
205	210	220	230	240	265	290	335	335	335	325	310	Mean

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



Characteristic : h'E  
Unit : Km  
Month : June, 1960

TABLE 64  
Ionospheric Data  
75°0'E Mean Time

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

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

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

Characteristic : h'E  
 Unit : Km  
 Month : June, 1960

TABLE 64 (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
B	A	B	B	B	A							1
A	A	A	A	A	A							2
A	A	A	120	110	120							3
A	115	A	A	A	A							4
A	A	A	A	A	120							5
A	A	A	A	A	A							6
A	A	A	A	A	A							7
A	B	A	115	115	115							8
A	A	A	A	115	A	A						9
A	A	115	A	A	A		A					10
A	A	120	A	A	A							11
B	B	A	A	A	A							12
A	B	A	A	A	A							13
A	A	A	115	120								14
A	A	A	115	115								15
B	A	110	A	A	120							16
A	A	A	A	A	A							17
A	A	A	A	A	105							18
C	C	A	A	A	A							19
A	A	A	A	A	115	140						20
A	A	A	A	120	120							21
110	A	A	A	A	A							22
A	A	120	115	115								23
A	A	A	A	115	A							24
A	A	A	A	A	120							25
A	A	A	A	105	120							26
B	B	A	A	A								27
A	A	A	110	115	120							28
A	105	115	110	115	120							29
A	A	105	105	A	120							30
1	2	6	8	11	12	1						Count
..	..	115	115	115	120							Median
..	..	115	115	115	120							Mean

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

Characteristic : h'E  
Unit : Km  
Month : June, 1960

TABLE 64 (Contd.)  
Ionospheric Data  
75.0°E Mean Time

Latitude : 10.2°N  
Longitude : 77.5°E

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

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

Characteristic : h'E  
 Unit : Km  
 Month : June, 1960

TABLE 64 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

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

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

Characteristic : h'Es  
Unit : Km  
Month : June, 1960

TABLE 65  
Ionospheric Data  
75 0°E Mean Time

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

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	C		130	120				G	110	105	100	100
2		105	120	110	105			G	G	100	100	100
3		120						G	100	100	100	100
4								G	100	100	100	115
5	C	C	C	C	C	C	C	C	G	G	100	100
6			105	100				110	100	100	100	100
7								105	G	100	100	100
8		120					120	105	100	100	100	100
9								105	100	100	100	100
10								105	100	100	100	100
11								100	100	100	100	100
12							G	G	100	100	100	100
13				120			160	115	120	110	100	100
14	120						G	G	G	100	100	100
15	100							100	100	100	100	100
16							120	105	100	100	100	100
17				90			G	100	100	100	100	100
18		90	90				110	100	100	100	100	100
19	100			105			G	100	C	C	C	C
20				120			110	100	100	100	100	100
21					110			G	100	100	100	100
22	140			120				110	100	100	100	100
23								120	G	C	100	100
24	120						G	100	100	100	100	100
25	120	115	115	110	110			G	140	100	100	100
26	100							100	100	100	100	100
27	120	120	120	120			G	100	100	100	100	G
28	140						140	105	G	G	100	100
29	140							G	100	G	100	100
30		100	100				G	130	130	B	G	140
Count	10	7	7	10	3	..	6	20	23	24	28	28
Median	120	115	115	115		..	120	105	100	100	100	100
Mean	120	110	110	110	.	..	125	105	105	100	100	100

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

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

TABLE 65 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	B	B	B	110				105			1
100	100	100	100	100	100					135		2
100	100	100	G	G	G							3
100	G	110	100	100	110			120	C	C	C	4
100	100	100	100	100	G			100	100	100		5
100	100	100	100	100	115	115	125	110	105	115		6
100	100	100	100	100	100	100	115					7
100	B	100	100	100	110							8
100	100	100	105	110	100	100	105		125	115		9
100	100	100	100	100								10
100	100	100	100	100	100	100						11
100	100	100	100	100	100	100	100	100	100	100		12
100	100	100	100	100	100	135	110				120	13
100	100	100	G	G			100	115				14
100	100	100	G	G	140							15
100	100	100	100	100	105				100	95	95	16
100	100	100	100	100	100	100	100	95	95	100	95	17
100	100	100	100	100	100			100	90			18
C	C	100	100	100	120	120		125	110	100		19
100	100	100	100	100	G	120						20
100	100	100	100	G	G				130	125	135	21
100	100	100	100	100	100	100	100	100			120	22
105	100	100	100	120	100	100						23
100	100	100	100	G	100		125			120	110	24
100	100	100	100	110	G					100		25
100	100	100	100	G	G				C	120		26
G	100	100	100	100		120				120	120	27
100	100	100	105	100	G				140	125	120	28
100	100	120	100	G	140							29
100	100	100	100	100	105	130					120	30
28	27	29	26	22	19	13	8	9	11	14	9	Count
100	100	100	100	100	100	115	100	100	105	115	120	Median
100	100	100	100	100	110	110	110	105	110	110	115	Mean

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

Characteristic : h'Es  
Unit : Km  
Month : June, 1960

TABLE 65 (Contd.)  
Ionospheric Data  
75°0'E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1			115					G	100	100	100	100
2	110	110	115	110	105			G	105	100	100	100
3								G	100	100	100	100
4							G	G	100	100	G	100
5								G	G	G	100	100
6		105					G	105	100	100	100	100
7							G	G	100	100	100	100
8		120					115	100	100	100	100	100
9							G	100	100	100	100	100
10							115	105	100	100	100	100
11	120						105	100	100	100	100	100
12							G	100	100	100	100	100
13				115			115	C	115	100	100	100
14	125						G	G	100	100	100	100
15							100	100	100	100	100	100
16				120			120	100	100	100	100	100
17							105	100	100	100	100	100
18	90	90					100	100	100	100	100	100
19			140	105		100	100	100	C	C	C	C
20				130		120	105	100	100	100	100	100
21							120	110	100	100	100	100
22			125				G	100	100	100	100	100
23								G	100	C	G	G
24		120					110	100	100	100	100	100
25	120	115	120	110			G	100	120	100	100	100
26							150	100	100	100	100	100
27	120	120					G	100	100	B	100	G
28							120	G	G	100	100	100
29	120							G	G	100	G	130
30	100	100	100				G	G	G	G	G	100
Count	8	8	6	6	1	2	14	18	25	25	25	27
Median	120	110	120	110	..		110	100	100	100	100	100
Mean	115	110	120	115	..	..	115	100	100	100	100	100

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

Characteristic : h'Es  
 Unit : Km  
 Month : June, 1960

TABLE 65 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

La titude : 10·2°N  
 Longitude : 77·5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	B	B	B							115	1
100	100	100	100	100	G				120	115		2
100	100	G	G	G								3
100	C	100	100	100			100	110				4
100	100	100	100	105				100	100			5
100	100	100	100	115	115		115	105	120	115		6
100	100	100	100	100	105			130	120			7
100	100	100	100	G								8
100	100	100	105	100	100	105		120	120			9
100	100	100	100	100		135					115	10
100	100	100	100	100	100	100			135	130	130	11
100	100	100	100	100	100	100	100	100	100	100		12
100	100	100	100	100	100	100	100	100			115	13
100	100	100	G	G	120	120	120					14
C	100	100	G	G	135							15
100	100	100	100	100	110			100	100	95	90	16
100	100	100	100	115	100	100	100	100	100	90	90	17
100	100	G	100	100	100			100	90			18
C	100	100	100	125	120			120	110			19
100	100	100	100	G	140	100						20
100	100	100	100	G					130	120	130	21
100	100	100	100	100	100	100	100			130	120	22
100	100	100	100	140	100							23
100	100	100	100	105	140	100		125			110	24
100	100	100	120	110	135	100						25
100	100	100	100	G	140						120	26
100	100	100	100	100	120	120			120	120	120	27
100	100	100	100	105	120					135	120	28
100	130	100	G	140	120			120				29
100	100	100	100	120	110	125						30
28	29	27	25	22	22	13	6	13	13	10	12	Count
100	100	100	100	100	110	100	100	105	120	120	120	Median
100	100	100	100	110	115	110	105	110	115	115	115	Mean

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



Characteristic : (M3000)F2

Unit : . . . .

Month : June, 1960

TABLE 66  
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	C	2.70	2.65	2.65	2.70	2.80	2.75	2.85	2.70	2.45 <sup>H</sup>	2.20	2.15
2	3.00	2.95	2.65	2.50	2.60	2.75	2.75	3.00	2.90	2.75	2.50	2.15
3	F	F	F	F	F	U3.10 <sup>F</sup>	3.10	3.00	2.80	2.45	2.15	2.25
4	2.85	2.75	2.55	2.30 <sup>F</sup>	F	2.95 <sup>F</sup>	3.25	3.05	2.85	2.45	2.10 <sup>H</sup>	2.50
5	C	C	C	C	C	C	C	C	2.95	2.80	2.55	2.45
6	2.55	2.50	2.55	2.75	2.85	3.10	3.10	2.85	2.60	2.30	2.30	2.35
7	2.75	2.85	2.75	2.75	2.85	3.25	3.10	2.85	2.70	2.50	2.20	2.20
8	2.80	2.70	2.65	2.65	2.95	2.95	2.55 <sup>H</sup>	2.75	2.30	2.30	2.30	2.35
9	F	F	F	2.85	3.25	3.20	2.90	2.95	2.60	2.15	2.30	2.20
10	3.10 <sup>H</sup>	2.80	2.45	2.45	2.60	2.90	2.80	2.50	2.40	2.20	2.25	2.20
11	2.70	2.60	2.75	2.80	2.90 <sup>F</sup>	U3.00 <sup>F</sup>	2.70	2.60	2.45	2.35	2.20	2.20
12	F	F	F	F	F	F	3.05	C	2.80	2.40	2.00 <sup>H</sup>	2.20
13	2.60 <sup>F</sup>	2.70	2.65	2.70	2.90	3.20	3.00	2.90	2.80	2.55	2.25	2.20
14	2.50	F	F	F	F	2.85	2.80	3.00	2.70	U2.55 <sup>R</sup>	2.20	2.25
15	U3.15 <sup>s</sup>	3.15	2.85	F	F	F	3.00	3.00	2.70	2.55	2.20	2.30
16	2.90	2.80	2.55	F	2.45 <sup>F</sup>	F	2.60 <sup>F</sup>	2.55	2.45	2.30	2.20	2.20
17	F	F	F	F	3.10	3.15	3.00	2.75	2.60	2.30	2.15	2.35
18	F	2.55	2.80	3.20	3.30	2.95	2.85	2.75	2.50	2.30	2.30	2.20
19	3.10	2.85	2.50	2.30	2.50	2.95	2.60 <sup>H</sup>	2.70	C	C	C	C
20	2.95	2.70	2.55	2.55	2.80	3.00	2.70	2.60	2.40	2.30	2.40	2.30
21	2.95	2.95	2.90	2.55	2.75	3.00	3.15	3.10	2.80	2.55	2.20	2.25
22	2.65	2.40	F	F	F	3.00 <sup>H</sup>	3.25	3.15	2.95	2.75	2.50	2.30
23	F	F	F	F	F	F	U3.15 <sup>F</sup>	3.05	2.90	C	2.65	2.45
24	2.55	2.65	2.70	3.05	3.25	3.50	3.05	2.80	2.70	2.50	2.40	2.30
25	2.80 <sup>F</sup>	2.85 <sup>F</sup>	2.65	2.50	2.60 <sup>F</sup>	2.80 <sup>H</sup>	3.10	3.00	3.00	2.80	2.45	2.15
26	F	F	F	F	U3.20 <sup>F</sup>	3.10	3.15	3.10	2.80	2.50	2.20	2.30
27	2.80	2.90	3.00	3.00	3.10	3.05	2.90	2.90	2.30	2.70	2.50	2.50
28	F	F	F	F	E	E	2.95	3.20	3.00	2.75	2.55	2.30
29	U2.80 <sup>s</sup>	2.80	U2.60 <sup>s</sup>	2.45	2.60	2.85	2.70	3.00	2.80	2.70	2.40	2.30
30	2.80	2.70	2.50	2.80	3.15	3.20	3.30	3.20	3.20	3.00	2.85	2.70
Count	20	21	20	19	21	24	29	28	29	28	29	29
Median	2.80	2.75	2.65	2.65	2.85	3.00	3.00	2.90	2.70	2.50	2.30	2.30
Mean	2.80	2.75	2.65	2.65	2.90	3.00	2.95	2.90	2.70	2.50	2.30	2.30

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

Characteristic : (M3000) F2  
 Unit : . . . .  
 Month : June, 1960

TABLE 66 (Contd.)  
 Ionospheric Data  
 75 0°E Mean Time

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

12	13	14	15	16	17	18	19	20	21	22	23	Date
2·15	2 20	B	2·30	2 30	u2 35s	2 25	2 15	2 20	2·40	2·60	2·85	1
2·20	2 20	2 20	2 20	2 35	2·50	2 70	2·50	F	F	F	F	2
2·25	2·35	2·30	2·55	2 65	2·70	2 70	2·50	2·45F	2·50F	F	u2·60F	3
2·35	2 35	2 45	2 35	2 30	2 05H	u2 10s	2 35	2·45	C	C	C	4
2 20	2·05	2·15	2 15	2 15	2·20	2·30	2·40	2 45	2·50	2 50	2·50	5
2·25	2 15	2 15	2·20	2 35	2·30	2·25	2·15	2·10	2·25F	2 45	2·65	6
2 10	2·20	2 20	2·25	2·30	2·40	2·50	2·35	2 20	2·35	2·45	2·65	7
2·30	2 30	2 30	2·30	2·20	2·20	2·15	2·00	F	F	F	F	8
2·20	2 15	2·15	2·20	2·25	2·40	2·45	2·35	2·20	2·30	2·40	2·65	9
2·20	2·20	2·20	2·30	2·40	2 55	2·60	2·50	2·45F	u2 45F	2·50	2·70	10
2·15	2 20	2·30	2 40	2·40	2 45	2 60	2·55	2·45	F	F	F	11
2 20	2 25	2 35	2 30	2 35	2·45	2·65	2·60	2·40	2·50	2·55	F	12
2·15	2·20	2 20	2·20	2·30	2·30	2·45	2·45	F	F	F	F <sub>s</sub>	13
2 25	2·25	2·30	2 40	2·40	2·55	2·65	2 70	2·60	2·70	2·90	3·05	14
2·15	2·20	2·25	2 40	2·55	2·65	2·65	2·60	2·80	2·60	2·65	2 80	15
2·25	2·25	2 30	2·30	2 20	2·15	2 10	2·15	u2·05s	F	F	F	16
2·20	2·20	2 20	2·40	2 50	2·55	2·55	2·50	2·40	F	2·50	u2·70F	17
2 30	2 30	2·30	2·30	2·45	2 45	2·55	2·60	2 50	2·65	2·90	3 20	18
C	C	2·25	2·30	2·30	2·40	2·50	2·50	2·50	2·65	2·70	3·00	19
2·35	2·30	2·30	2·40	2·45	2·55	2 60	2·55	2·50	2·50	2·65	2·80	20
2·20	2 25	2·25	2·40	2·55	2·65	2·90	2·75	u2·60s	2·60	u2·70s	u2·65s	21
2·20	2 30	2·20	2·30	2·30	2 30	2 50	2 45	u2·40F	F	F	F	22
2·35	2·35	2·30	2·25	2·30	2·50	2·60	2·55	2·65	2·65	2·80	u2·55s	23
2·15	2 20	2·30	2·35	2·45	2·60	u2·90s	2·85	2·80	u2·70s	S	2·65	24
2·35	2 40	2·40	2·30	2·45	2 60	2·70	2 60	F	F	F	F	25
2 35	2 40	2·35	2·65	2·70	2·90	3·00	2·85	u2·70s	C	2·50	2·70	26
2·55	2 50	2·40	2·40	2·40	2·50	2·60	2·55	2·45	F	F	F	27
2·20	2 20	2·25	2·30	2·30	2·40	2·50	u2·50s	u2·40F	2·50	2·60	2·75	28
2 35	2·30	2·35	2·35	2·45	2·60	2·65	u2·55s	F	F	u2·60F	u2·80s	29
2·50	2·35	2·10	2·25	2·35	2·30	2·40	2·25	u2·20s	F	F	F	30
29	29	29	30	30	30	30	30	25	17	18	19	Count
2·20	2 25	2·25	2·30	2·35	2·45	2·60	2 50	2·45	2·50	2·60	2·70	Median
2·25	2 25	2·25	2·30	2·40	2·45	2·55	2·50	2·40	2·50	2·60	2·75	Mean

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

Characteristic : (M3000)F2  
 Unit : . . . .  
 Month : June, 1960

TABLE 66 (Contd.)  
 Ionospheric Data  
 75°0'E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.95	2.65	2.65	2.70	2.70	2.80	2.80	2.85	2.55 <sup>H</sup>	2.35 <sup>H</sup>	2.15	2.15
2	3.05	2.80	2.60	2.55	2.70	2.75	2.90	3.00	2.90	2.60	2.30	2.15
3	F	F	F	F	F	3.10	3.05	2.90	2.65	2.25	2.25	2.25
4	2.85	2.60	2.40 <sup>F</sup>	F	F	3.25	3.15	3.00	2.65	2.25 <sup>H</sup>	2.30	2.40
5	C	C	C	C	C	C	C	2.95	2.95	2.70	2.50	2.35
6	2.55	2.50	2.65	2.85	3.05	3.00	3.05	2.75	2.45	2.25	2.35	2.25
7	2.80	2.80	2.65	2.90	2.90	3.00 <sup>H</sup>	3.05	2.75	2.55	2.35	2.15	2.10
8	2.70	2.75	2.65	2.85	2.95	2.80	2.70	2.45	2.35	2.25	2.40	2.35
9	F	F	U2.90 <sup>F</sup>	3.05	3.40	2.85	2.90	2.80	2.40	2.00 <sup>H</sup>	2.25	2.20
10	2.95	2.60	2.40	2.50	2.70	2.95	2.70	2.50	2.30	2.25	2.30	2.20
11	2.70	2.65	2.80	2.80	U2.80 <sup>F</sup>	2.90	2.60 <sup>H</sup>	2.45	2.40	2.30	2.15	2.15
12	F	F	F	F	F	F	3.00	2.95	2.65	C	2.10	2.15
13	2.65	2.60	2.65	2.80	3.15	3.05	3.00	C	2.65	2.40	2.20	2.15
14	U2.50 <sup>S</sup>	F	U2.65 <sup>F</sup>	F	F	3.00	2.90	2.80	U2.60 <sup>R</sup>	2.35	2.20	2.15
15	3.10	3.05	F	F	F	2.80	2.95	2.80	2.60	2.40	2.25	2.20
16	2.90	2.65	F	F	2.60	U2.80 <sup>F</sup>	2.50	2.50	2.45	2.20	2.20	2.20
17	F	F	F	2.95	3.10	3.00	2.90	2.70	2.45	2.20	2.20	2.30
18	U2.65 <sup>F</sup>	2.65	2.90	3.35	3.30	2.70	2.85	2.60	2.40	2.25	2.25	2.30
19	3.10	2.75	2.40	2.50	2.60	2.80	2.90	2.60	C	C	C	C
20	2.80	2.65	2.55	2.65	2.95	2.90	2.70	2.50	2.40	2.35	2.30	2.30
21	3.00	2.95	2.80	2.70	2.75	3.05	3.20	2.95	2.65	2.35	2.15	2.20
22	2.55	U2.25 <sup>F</sup>	F	F	F	3.15	3.20	3.10	2.80	2.65	2.35	2.15
23	F	F	F	F	F	F	3.10	3.05	2.90	C	2.60	2.45
24	2.60	2.60	2.80	3.10	3.50	2.95	2.90	2.80	2.60	2.40	2.40	2.25
25	2.80 <sup>F</sup>	2.80	2.50	2.40	F	3.00	3.10	3.00	2.90	2.65	2.25	2.30
26	F	F	F	F	3.45	3.10	3.20	2.90	2.70	2.40	2.20	2.30
27	2.80	2.90	2.95	3.10	3.05	2.95	2.95	2.70	2.45	2.55	2.50	2.60
28	F	F	F	E	E	2.85	3.15	3.10	2.80	U2.60 <sup>R</sup>	2.45	2.20
29	2.80	2.70	U2.50 <sup>S</sup>	2.45	2.80	2.85	3.00	2.90	2.75	2.55	2.30	2.35
30	2.70	2.60	2.65	3.20	3.10	3.00	3.30	3.30	3.00	3.00	2.75	2.60
Count	22	21	20	19	20	27	29	29	29	27	29	29
Median	2.80	2.65	2.65	2.80	2.95	2.95	2.95	2.80	2.60	2.35	2.25	2.25
Mean	2.80	2.70	2.65	2.80	3.00	2.95	2.95	2.80	2.60	2.40	2.30	2.25

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

Characteristic : (M3000) F2  
 Unit : . . . .  
 Month : June, 1960

TABLE 66 (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
2.20	2.20	2.30	2.30	2.30	u2 20s	u2.15FS	2.25	2.30	2.50	2.75	2.95	1
2.25	2.25	2.20	2.30	2.40	2.60	2.65	2.40	F	F	F	F	2
2.35	2.25	2.45	2.60	2.70	2.65	2.60	2.45F	2.50F	u2.55F	F	2.80F	3
2.30	2.40	2.40	2.30	2.10	u2 00RH	2.35	2.40	2.55	C	C	C	4
2.00	2.15	2.15	2.15	2.20	2.25	2.35	2.40	2.50	2.50	2.45	2.55	5
2.20	2.10	2.15	2.25	2.30	2.25	2.15	2.10	u2 30F	2.35	2.45	2.70	6
2.10	2.15	2.20	2.20	2.35	2.40	2.45	2.25	2.30	2.40	2.55	2.70	7
2.30	2.30	2.30	2.25	2.20	2.15	u2 15s	2.00F	F	F	F	F	8
2.15	2.10	2.15	2.20	2.30	2.45	2.40	2.20	2.25	2.30	2.50	2.80	9
2.15	2.20	2.25	2.35	2.45	2.60H	2.55	2.50	u2.50F	2.50F	2.55	2.65	10
2.20	2.20	2.30	2.40	2.40	2.55	2.60	u2.45s	u2.35F	F	F	F	11
2.25	2.30	C	2.30	2.40	2.55	2.75	2.55	2.40	2.40	2.65	2.60	12
2.20	2.20	2.25	2.25	2.30	2.35	2.40	2.35	F	F	u2.65s	F	13
2.30	2.30	2.35	2.30	2.55	2.60	2.60	2.60	2.75	2.80	3.05	3.20	14
C	2.30	2.40	2.50	2.70	2.60	2.65	2.55	2.50	2.65	2.80	2.90	15
2.25	2.20	2.25	2.20	2.20	2.15	2.25	u2 10F	F	F	F	F	16
2.20	2.20	2.30	2.45	2.50	2.55	2.50	2.45	2.45	2.35	2.55	u2.75F	17
2.25	2.30	2.30	2.35	2.45	2.50	2.60	2.55	2.60	2.75	3.15	3.05	18
C	2.15	2.25	2.35	2.45	2.50	2.50	2.45	2.55	2.75	2.85	2.95	19
2.30	2.30	2.30	2.40	2.50	2.60	2.60	2.55	2.50	2.55	2.70	2.80	20
2.25	2.25	2.35	2.50	2.55	2.75	2.90	2.75	2.60	u2.65s	u2.70s	2.60	21
2.25	2.20	2.20	2.25	2.40	2.45	2.50	2.45	F	F	F	F	22
2.30	2.30	2.25	2.25	2.40	2.55	2.65	2.60	2.60	2.60	2.45	2.55	23
2.25	2.30	2.30	2.45	2.55	2.80	2.80	2.85	2.75	2.70	F	u2.70s	24
2.40	2.30	2.35	2.40	2.45	2.75	2.70	2.55	F	F	F	F	25
2.40	2.30	2.50	2.60	2.80	3.00	u3 00s	u2.80s	2.70	2.50	2.60	u2.75s	26
2.50	2.50	2.40	2.35	2.40	2.55	2.60	2.50	2.45	F	F	F	27
2.20	2.20	2.30	2.30	2.30	2.45	u2.50s	2.45	u2.50s	u2.50s	2.65	2.75	28
2.30	2.30	2.40	2.40	12.55R	2.60	u2.65s	2.45	F	F	u2.70s	2.80	29
2.40	2.20	2.10	2.30	2.30	2.40	2.35	2.30	2.20	F	F	F	30
28	30	29	30	30	30	30	30	23	19	19	20	Count
2.25	2.25	2.30	2.30	2.40	2.55	2.60	2.45	2.50	2.50	2.65	2.75	Median
2.25	2.25	2.30	2.35	2.40	2.50	2.55	2.45	2.50	2.55	2.65	2.80	Mean

Sweep 1.0 Mc to 25.0 Mc, in 27 seconds.

KODAIKANAL OBSERVATORY BULLETIN NO. CLXI.

Page.	Table No.	Columns.	Date.	Read.	For.
3	1	5, 6, 7, 8	1st Quarter	3.43 6.88 46.46 3.11	3.54 6.81 46.40 3.10
3	1	5, 6, 7, 8	2nd Quarter	3.85 7.53 41.99 3.57	3.30 7.51 41.8 3.64
3	1	5, 6, 7, 8	1st half year	3.63 7.20 44.16 3.35	3.69 7.19 44.15 3.41

PART - II.

Page No.	Date.	Column/Hour.	Read.	for.
11	20	11	△	△
11	20	13	△	△
11	21	11	△	△
11	21	13	△	△
11	22	11	△	△
11	22	13	△	△
11	23	11	△	△
11	23	11	△	△
13	22	2	36.9	33.0
15	28	14	36.3	33.0
16	6	3	33.9	33.0
17	18	11	0848	0748
17	Mean Range	15	5.6	5.4
20	8	2	35.7	35.9
22	10	10	565	551
23	11	7	496	494
43	28	11	2030	0230
44	Mean	--	Mean †	Mean †

PART - III.

76	20	Under 04	220	223
142	12	" 0930	L	C
142	13	" 0930	C	L
222	Count	" 0830	28	29
223	Count	" 1830	30	20
252	Count	" 06	26	2
255	4	Date	†	Nil
298	5	Under 1130	215	25
298	8	" 1130	215	25