

©

DGO.11.168
385



KODAIKANAL OBSERVATORY

Bulletin No. CLXVIII

Published on 6th March, 1968 (Phalguna 16th, 1889)

Kodaikanal Observatory

Bulletin No. CLXVIII

PART I

Summary of Prominence and Calcium Flocculus observations for the First half of 1962

The results of observations of prominences and calcium flocculi made at Kodaikanal Observatory during the first half of 1962 supplemented by data computed from photographs supplied by the Meudon Observatory for those days on which Kodaikanal had imperfect or no observations due to cloudy sky conditions 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 151 days, which were counted as 142½ effective days, after giving due weightage to the photographs according to their quality Spectroheliograms for 14 days were received from the Meudon Observatory. In all, complete observations were available for 150½ effective days

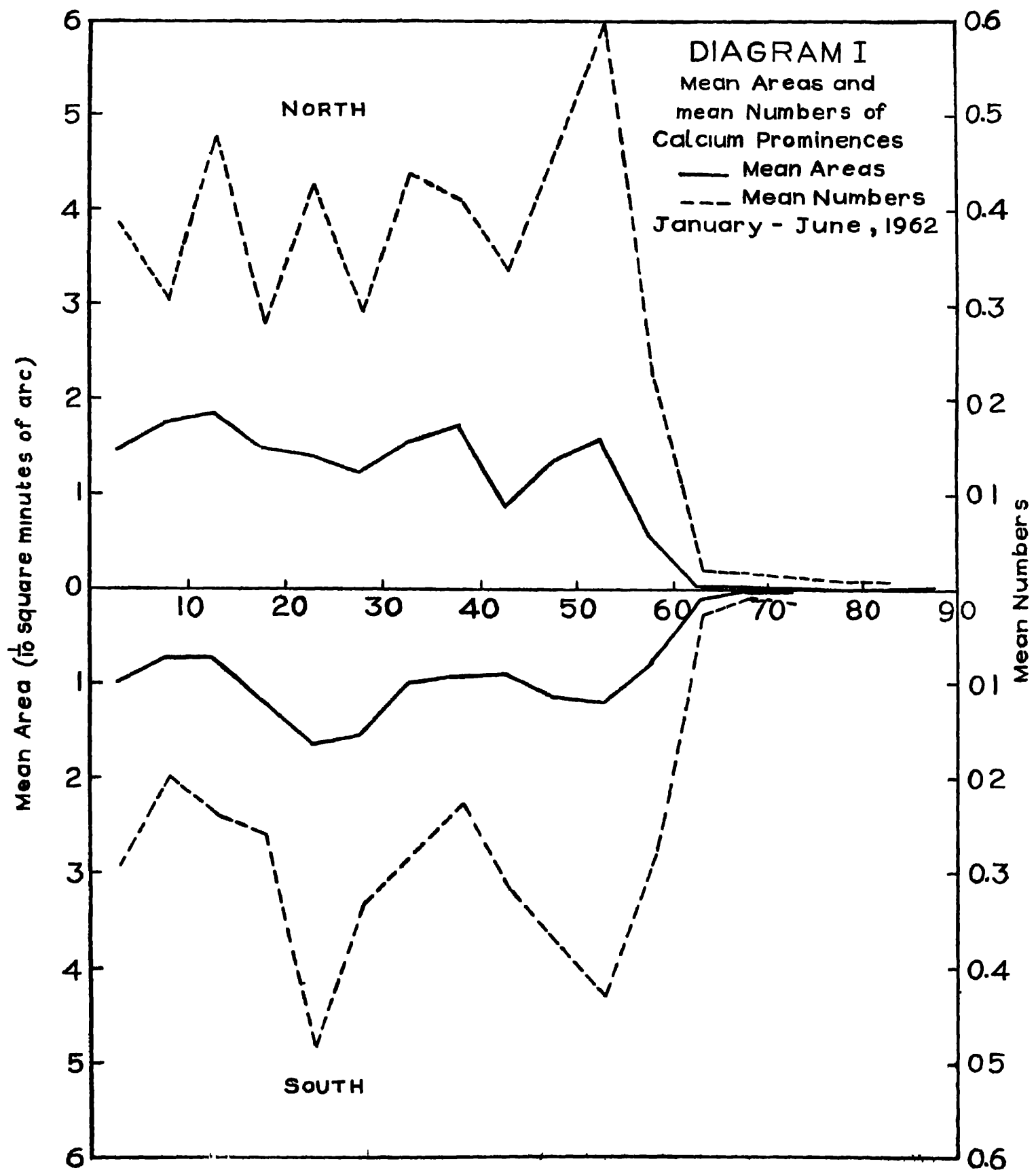
The mean daily areas (Square minutes of arc) and the mean daily numbers of prominences derived from all the above records are given below

	Combined data	
	Mean daily areas (Square minutes)	Mean daily numbers
North	1.68	4.68
South	1.29	3.91
TOTAL	2.97	8.59

Compared with the previous half-year there is a decrease in the prominence activity, the decrease being 21.84% in areas and 6.43% in numbers. The distribution of areas and numbers in five degree ranges of latitude as obtained from the combined data is represented in diagram I

The monthly, quarterly and half yearly areas, numbers, heights and extents of Prominences derived from all the photographs are given below

1962 Month	No of effective days	Area in sq minutes	Numbers	Daily Means		Mean height	Mean Extent
				Area Sq minutes	Numbers		
January	26½	51.0	229	1.92	8.6	33.5	2.1
February	23½	81.8	209	3.44	8.8	36.9	2.9
March	28½	99.7	273	3.50	9.6	39.8	3.1
April	26½	80.0	230	3.05	8.8	39.5	3.2
May	21½	54.3	166	2.56	7.8	40.9	2.8
June	24½	80.8	188	3.30	7.7	43.2	3.4
1st Quarter	78½	232.5	711	2.95	9.0	36.9	2.7
2nd Quarter	72	215.1	584	2.99	8.1	41.1	3.1
1st half year	150½	447.6	1295	2.97	8.6	38.8	2.9



(Millionths of the Sun's visible hemisphere)

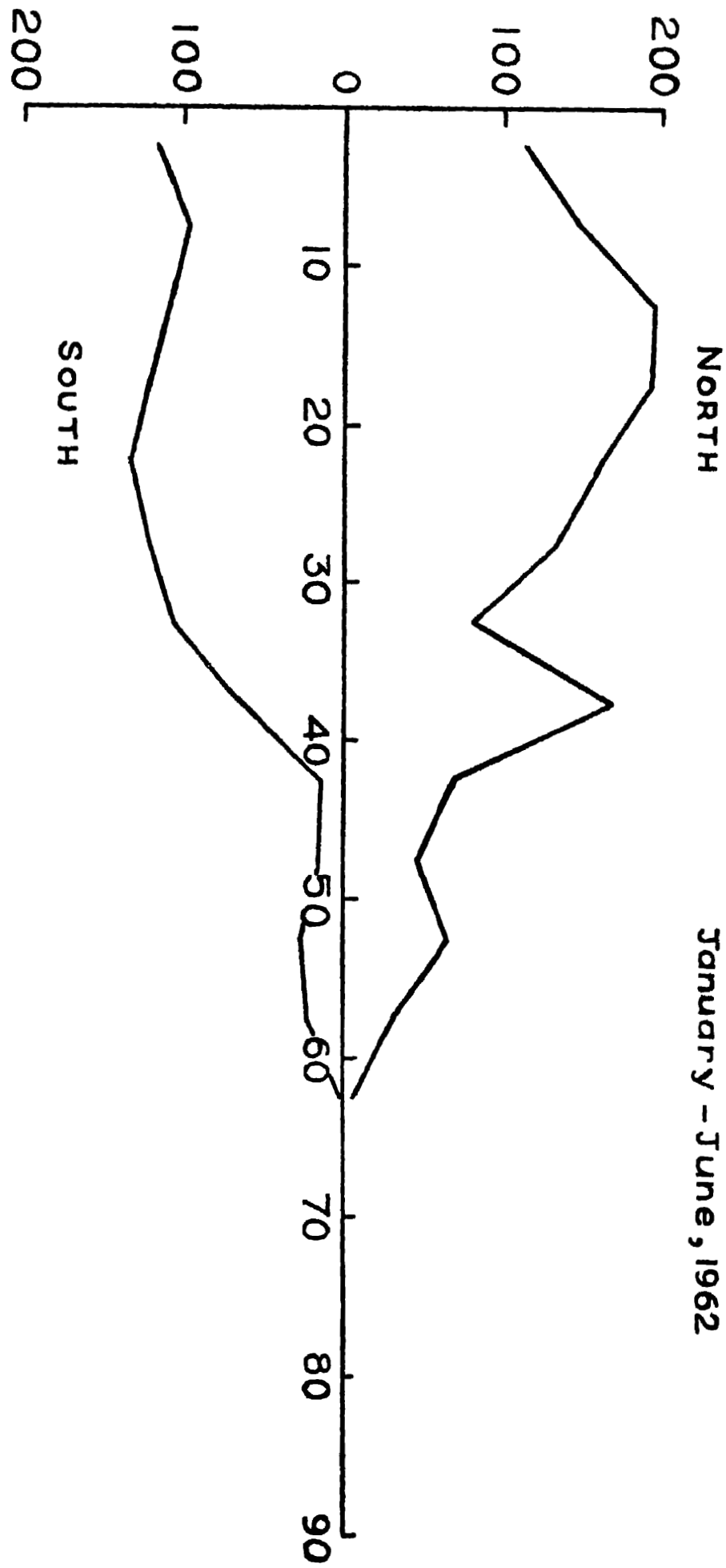


DIAGRAM II
Mean Area of H-alpha Absorption Markings
January - June, 1962

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

	East	West	Percentage East
1962 January—June			
Areas (Square minutes)	227.3	220.3	50.8
Numbers	647	648	49.9

Prominences projected on the disc as absorption markings

During the period under review, photographs of the Sun's disc in H-alpha were obtained at Kodaikanal on 119 days. Spectroheliograms for 34 days were obtained from the Meudon Observatory. On the whole records were available for 120½ effective days.

The mean daily area in millionths of the Sun's visible hemisphere (uncorrected for foreshortening) and the mean daily number of the H-alpha dark-markings as derived from the combined data are given below.

	Combined data	
	Mean daily area (Millionths of the Sun's visible hemi- sphere)	Mean daily numbers
North	1391	11.66
South	963	7.64
TOTAL	2354	19.30

The distribution of the areas of the absorption markings 5-degree ranges of latitude as obtained from the combined data is shown in diagram II. Compared with the previous half-year, there is a decrease of activity, the decrease being 30.16% in areas and 22.96% in numbers.

The distribution of total areas and numbers of the dark markings east and west of the Sun's axis of rotation is as follows.

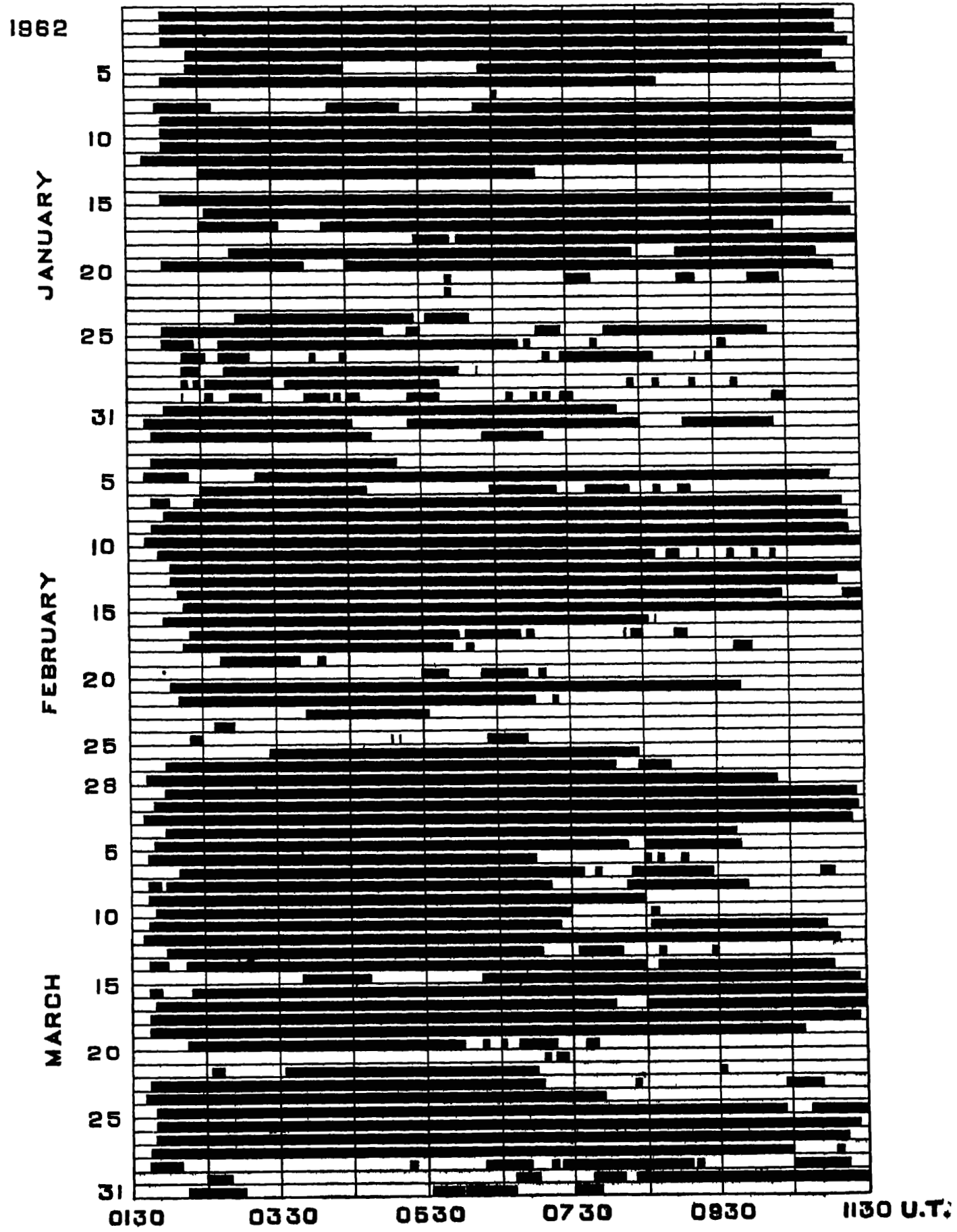
	Combined data		
	East	West	Percentage East
Total area (in millionths of the Sun's visible hemisphere uncorrected for foreshortening)	1,41,656	1,42,625	49.8
Total Numbers	1,111	1,219	47.7

Calcium flocculi—During the period under review, Calcium flocculus spectroheliograms were taken on 161 days, while Calcium spectroheliograms for 12 days were obtained from the Meudon Observatory. In all, observations were available for 161½ effective days.

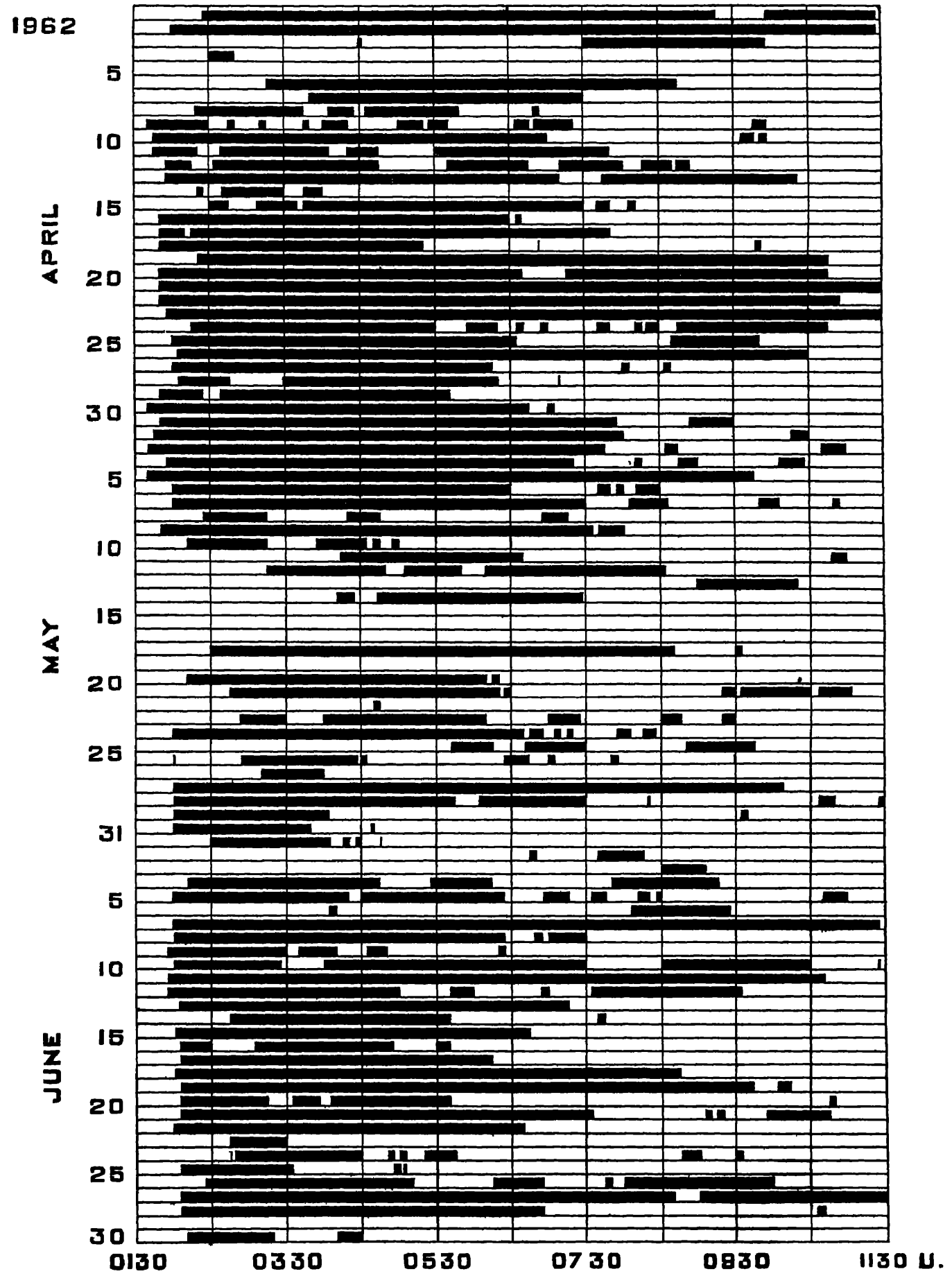
The mean daily areas (in millionths of the Sun's visible hemisphere uncorrected for foreshortening) computed from the combined data are given below.

	Combined data	
	Mean daily area (Millionths of the Sun's visible hemi- sphere)	
North	4777	
South	2170	
TOTAL	6947	

EFFECTIVE HOURS OF SOLAR PATROL WITH
SPECTROHELIOSCOPE AND LYOT FILTER



EFFECTIVE HOURS OF SOLAR PATROL WITH
SPECTROHELIOSCOPE AND LYOT FILTER



Compared to the previous half year there is a decrease of activity of the calcium flocculi, the decrease being 27.54%

The distribution of flocculi east and west of the Sun's axis of rotation is as follows

	East	West	Percentage East
Total area (in Millionths of the Sun's visible hemisphere, uncorrected for foreshortening)	5,632.50	5,605.00	50.10

There is a very slight eastern excess during the half-year under consideration

Particulars of sudden disappearances, surges and active prominences are given in Tables I & II

Solar Flare Patrol

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

	N	S	E	W	Total	Displacements to red and violet
Displacements in prominences	33	9	15	27	42	42
Displacements in dark markings	24	10	15	19	34	34

The times of patrol of the sun with the spectroheliograph and the Lyot monochromatic heliograph are shown in the accompanying charts. Particulars of solar flares observed are given in Table III

Solar Radio Emission—A description of the Kodaikanal system of solar radio emission observations with a brief description of the Radiometer has been given in Bulletin No 167 of this Observatory

In this bulletin all outstanding occurrences observed at Kodaikanal are listed in the Table IV. In addition to the symbols listed in Bulletin No 167, the following qualifying symbols have been used

- E = Event in progress before observations began
- D = Event continued after end of observations
- S = Measurement probably influenced by interference or atmospheric

PART II

Magnetic Observations for the First half of 1962

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

The adopted values of scale coefficients for the Horizontal Force were 28 γ /cm for the months of February and June 1962 and 29 γ /cm for the other four months. The scale coefficients for the Vertical Force were 120 γ /cm, for January through March and 115 γ /cm, for April through June, 1962 respectively. The adopted value of scale coefficient for Declination for the entire half year period was 14 γ /cm.

PART III

Ionospheric Observations for the first half of 1962

A description of the system of ionospheric observations at Kodaikanal with a brief description of the Ionospheric Recorder has been given in the 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'F, h'Es and (M3000)F2 with symbols and terminology as recommended by the Special Committee on Worldwide Ionospheric Soundings to the URSI/AGI in its First Report (Brussels, September 2, 1956)

KODAIKANAL OBSERVATORY,
November, 1965

M K VAINU BAPPU,
Director

TABLE I

Sudden disappearances of prominences and H-alpha dark-markings

Nature of phenomenon	Date and time of phenomenon when last seen		Co-ordinates of phenomenon		Remarks
	Date	Time U T	Mean Latitude	Mean Longitude	
Dark marking	25th March 1962	11 18	18°N	11°W	Actual disintegration not observed. Dark-marking was not seen on 26th

TABLE II

Suiges, Active Prominences etc.

Date 1962	Phenomenon	Importance	Time U T		Co-ordinates		Direction of outflow	Remarks
			Beg h m	End h m	Latitude	Longitude		
1	2	3	4	5	6	7	8	9
3rd January	DSD	1	03 50	04 12	10°N	85°W	r	B
3rd January	BSL	1	09 25	09 45	22°N	90°W	r	G
3rd January	APR	1	07 30	08 12	17°N	90°E	l	J
4th January	APR	1	04 15	09 10	22°N	90°E	l	J
8th January	BSL	1	02 20		10°N	90°W	r	A
13th January	BSL	1	05 37		16°N	90°W	l	A
30th January	BSD	1	02 37*	02 40	18°S	30°W	l	A
1st February	DSD	1	01 45	02 30	09°N	27°W	r	G
4th February	DSD	1	02 32	03 40	10°N	75°W	r	C
4th February	BSL	1	03 35	03 57	10°N	90°W	r	C
5th February	APR	1	07 35	08 25	10°N	90°W	r	J
7th February	APR	1	02 05	08 12	10°N	90°W	r	J
8th February	DSD	1	04 18	04 40	08°N	12°W	r	G
9th February	BSL	1	02 55	03 10	22°N	90°E	l	A
19th February	BSL	1	03 08	03 33**	10°N	90°E	ln	A
21st February	DSD	1	02 26	02 30	09°S	55°E	l	G
21st February	APR	1	09 15	09 45	20°N	05°W		
4th March	BSL	1	02 12	02 30	10°S	90°W	rn	G
4th March	BSL	1	03 05	03 28	10°S	90°W	r	G
4th March	BSL	1	04 48	05 00	24°S	90°W	ln	A
4th March	BSL	1	06 14	06 28	15°S	90°W	rn	G
4th March	APR	1	05 04	05 38	22°S	90°W	r	A
12th March	BSL	1	01 55	02 45	10°N	90°E	ls	B
16th March	DSD	1	04 20	04 50	14°N	33°E		G
17th March	BSL	1	01 50	02 40	11°N	90°E	r	G
17th March	BSL	1	02 07	02 15	10°S	90°E	r	G
17th March	BSL	1	03 22	03 38	14°N	90°E	rs	G
17th March	BSL	2	03 30	03 50	10°S	90°E	r	G
17th March	BSL	1	04 10	06 55	10°S	90°E	rs	G
17th March	DSD	1	02 50	03 45	11°N	19°E		
22nd March	DSD	1	02 33*		12°N	11°E		B
25th March	BSL	1	01 50	02 05	07°N	90°W	rn	A
26th March	DSD	1	05 44	06 02	11°N	42°W		

TABLE II—Contd

1	2	3	4	5	6	7	8	9
1st April	BSL	1	04 26	04 36	09°N	90°W	i _n	G
1st April	BSL	1	06 20	07 55	09°N	90°W	r _s	G
9th April	DSD	1	02 10		08°N	64°W		
10th April	BSL	1	04 37	04 45	12°N	90°W	r _n	
10th April	BSL	1	05 30	05 45	11°N	90°W	i _s	A
11th April	BSL	1	01 47*		11°N	90°W	i	A
11th April	BSL	1	02 55		11°N	90°W	r	A
16th April	BSL	1	01 50	02 45	12°N	90°E	r	A
16th April	DSD	1	01 54*	02 03	10°N	25°W		G
16th April	DSD	1	02 35	04 50	10°N	25°W		B
20th April	DSD	1	02 34	02 42	08°N	11°W		B
21st April	DSD	1	02 03	03 20	14°N	22°W		B
21st April	AFR	1	02 03	03 00	13°N	23°W		B
21st April	DSD	1	07 10*		02°S	28°W		B
25th April	BSL	1	03 13	04 00	07°N	90°W	r	G
25th April	BSL	1	04 20	04 37	07°N	90°W	r	G
26th April	DSD	1	02 40		10°N	68°E		
26th April	BSL	1	07 35	07 38	11°N	90°W	r _s	A
1st May	DSD	1	07 22*		18°N	73°E		C
2nd May	BSL	1	02 55	04 45	08°N	90°W	r	A
2nd May	BSL	1	06 13	06 35	08°N	90°W	r	A
3rd May	BSL	1	02 00	02 32	08°N	90°W	r	A
3rd May	BSL	1	03 30	03 48	08°N	90°W	r _n	A
5th May	BSL	1	05 03	05 20	17°N	90°W	r _s	A
1st June	DSD	1	04 15*		14°S	65°W		B
7th June	DSD	1	02 45	03 15	08°N	21°W		A
8th June	BSL	1	02 15	03 16	16°S	90°E	r _n	A
15th June	BSL	1	03 03*	03 13	10°S	90°E	r _s	A
17th June	BSL	1	03 00	04 57	04°S	90°W	i	A
19th June	DSD	1	04 46	05 04	16°N	50°E		B
21st June	BSL	1	04 12	04 47	11°S	90°W	r _s	A
21st June	DSD	1	06 38*	06 50	14°N	23°E		B
26th June	DSD	1	02 40	02 42	02°S	59°E		B
28th June	DSD	1	03 32	04 00	05°N	22°E		G

*First observation of the phenomena and not the beginning of the phenomena
 **Last observation of the phenomena and not the end of the phenomena

TABLE III
 Solar Flares

Date 1962	Time in U T						Mean Latitude	Mean Longitude from Central Meridian	Importance	Maximum width of H-alpha line observed A°
	Beg		Max		End					
	h	m	h	m	h	m				
1	2	3	4	5	6	7	8			
3rd January	03	13	03	16	03	20	12°N	75°W	1	1 84
3rd January	03	35	03	40	03	49	12°N	75°W	1+	2 00
16th January	09	20	09	20	09	25	14°N	43°E	1-	0 96
20th January	03	27	03	28	03	28	07°N	50°E	1	1 00
20th January	06	49	06	50	06	52	07°N	50°E	1	1 20
24th January	04	46	04	55	04	59	20°N	07°E	1	1 64

TABLE III—Contd

1	2	3	4	5	6	7	8
31st January	03 33	03 33	03 35	07°N	27°W	1—	1 20
1st February	03 34	03 37	03 51	10°N	29°W	1	1 60
1st February	05 50	05 52	06 00	10°N	33°W	1	2 08
1st February	06 47	06 48	06 52	10°N	33°W	1	1 20
1st February	08 30			10°N	33°W	1—	
1st February	09 12			10°N	33°W	1—	
4th February	01 58	02 22	02 35	11°N	80°W	2+	4 00
4th February	03 15	03 15	03 17	11°N	80°W	1	1 36
21st February	08 21	08 22	08 33	10°S	60°W	1	
21st February	09 17	09 18	09 22	10°S	80°E	1—	1 76
22nd February	02 10	02 16	02 22	09°S	47°E	1—	1 36
22nd February	02 30	02 31	02 40	10°S	48°E	1	1 60
22nd February	04 13	04 23	04 29	10°S	48°E	1—	
22nd February	06 12	06 12	06 31	10°S	50°E	1	
28th February	06 50	06 55	07 13	14°S	33°W	2	2 24
1st March	03 10	03 24	03 47	13°S	47°W	1	1 76
1st March	10 19	10 36	11 00	13°S	44°W	1	
3rd March	03 09	03 14	03 21	07°N	22°E	1—	
13th March	02 38	02 40	02 42	10°N	70°E	1—	
16th March	03 55	03 58	04 50	13°N	33°E	1+	2 24
17th March	10 34	10 39	10 45	13°N	13°E	1—	
20th March	03 05	03 05	03 30	10°S	55°E	1	2 28
22nd March	02 33*	02 33	02 36	12°N	12°E	1—	1 68
25th March	10 50	10 53	10 58	07°N	08°E	1—	
26th March	08 08	08 08	08 12	07°N	02°W	1—	
29th March	02 05	02 06	02 10	12°N	43°W	1—	1 52
31st March	02 45*	02 45	02 49	08°N	70°W	1	1 64
14th April	03 04	03 07	03 07	06°N	65°E	1—	1 44
14th April	03 17			10°N	03°E	1—	
15th April	05 33	05 33	05 48	05°N	50°E	1	1 76
16th April	02 35		02 40	08°N	24°W	1	1 48
16th April	03 18	03 18	03 20	08°N	24°W	1—	1 56
17th April	05 16	05 16	05 22	09°N	41°W	1—	1 72
19th April	09 45	09 45	09 52	07°N	25°E	1—	
20th April	02 33	02 34	02 40	09°N	14°W	1—	1 44
20th April	03 16	03 16	03 28	08°N	12°W	1—	
20th April	10 35	10 35	10 41	05°N	10°W	1—	
21st April	02 03	02 03	02 26	07°N	26°W	1+	3 80
21st April	05 06		05 13	07°N	32°W	1—	
21st April	07 10	07 12	07 18	07°N	27°W	1—	1 60
22nd April	02 29	02 29	02 33	07°N	45°W	1—	1 52
26th April	07 18	07 18	07 21	07°N	75°E	1—	1 52
1st May	01 50*		02 08	20°N	73°E	1	2 08
1st May	03 05	03 05	03 08	20°N	73°E	1—	1 44
1st May	04 20*	04 45	07 50†	20°N	71°E	2	2 16
3rd May	02 09	02 12	02 20	10°N	25°W	1+	2 08
3rd May	06 44	06 53	07 18	10°N	25°W	2	2 00
13th May	08 59*		09 30	09°N	16°E	1—	
21st May	10 57		10 59	12°N	62°E	1—	
1st June	04 09*		04 10†	11°S	61°W	1—	1 32
9th June	02 23	02 23	02 26	16°S	72°E	1—	1 52
19th June	04 46	04 47	04 49	18°N	51°E	1—	1 52
21st June	06 27		06 51	15°N	24°E	1	1 48
26th June	02 40	02 42	02 54	01°N	55°E	1—	1 60
27th June	07 56	07 56	08 10	02°N	40°E	1—	

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

†Last observation of flare and not the end of flare

TABLE IV
SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
January-June 1962

Frequency 100 Mc/sec
Normal Observing Period 0300 hrs to 1000 hrs UT

Station Astrophysical Observatory, Kodikanal
(Latitude 10 2°N Longitude 77 5°E)

Date	Starting time in U T h m	Duration in minutes	Type	Maximum flux density ($\times 10^{-20}$ w m ⁻² (C/S) ⁻¹)		Remarks
				Instantaneous	Smooth	
1	2	3	4	5	6	7
January 1	05 33	2 2	SD	V	19	
January 13	04 39 8	2 2	SD	V	11	
January 26	06 35 2	0 8	ESD			
January 26	08 30 2	0 8	ESD	V	15	
January 28	04 08 2	4 5	SD			
February 1	08 53	67D	CA	V	253	
February 22	08 55	20	ECF		733	
February 24	02 50E	430D	CA		375	
February 25	02 45E	435D	CA	V	300	
February 26	03 00E	420D	CA	V	609	
February 27	05 00	300D	CA		175	
	(Appx)					
February 28	04 45	315D	CA	V	420	
March 2	05 33	0 5	ESD	V	14	
March 16	03 57	3	ECD	V	23	Flare of importance 1
March 17	04 40	50D	ECD	V	36	
March 17	10 00	3	ESD			
March 22	06 09	1	ESD		126	
March 24	06 30	4	ESD		27	
March 30	06 37	1	ESD		147	
April 11	06 17	20	ECD		278	
April 12	04 55	80D	ECF	V	485	
April 13	03 34	283D	CA		54	
April 16	02 36E	380D	CA		699	
April 17	03 01E	337D	CA			
April 18	02 48E	342D	CA		297	
April 19	02 45E	421D	CA		578	
April 20	04 22	368	ECA		69	
April 21	07 31	180	ECA		267	
April 25	08 33	2	ESD		535	
April 26	08 43	1	ESD		578	
April 27	07 21	1	ESD	V	12	
April 28	05 12	16	ECD	V	13	
May 1	06 48	11	ESD	V	413	
May 2	08 39	1 5	ESD	V	16	
May 3	03 35	1	ESD	V	207	
May 5	03 33	0 5	ESD	V	18	
May 12	03 43	1	ESD	V	8	
May 20	04 29		ESD	V	16	
May 25	02 45E	430D	CA		104	
May 26	02 47E	464D	CA		196	
May 27	04 20	147D	CA	V	79	
June 4	05 48	14	ESD	V	485	
June 12	06 53	3	ECD	V	18	
June 22	05 23	9	ESD	V	7	
June 22	09 05	10	ESD	V	561	
June 25	05 24	1	CD	V	6	
June 26	04 25	360D	CA	V	57	
June 28	05 37	4	ECD	V	9	
June 28	07 47	2	ESD	V	10	

TABLE 5
 Hourly values of Declination (Westerly), 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2° plus tabular quantities

January

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

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

TABLE 5
 Hourly values of Declination (Westerly), 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean time)
 2° plus tabular quantities

January										2° plus tabular quantities				Date	
Hours G M T										Maximum		Minimum			
15	16	17	18	19	20	21	22	23	Mean		Range				
									Time	Mag	Time	Mag			
										H	M	H	M		
37 3	37 8	37 8	38 0	37 9	37 9	38 2	38 6	38 7	38 4	10 01	39 4	15 01	37 3	2 1	1
37 2	37 2	37 2	37 2	37 5	37 8	38 0	38 2	38 3	37 6	02 04	39 0	04 46	36 4	2 6	2
37 8	37 8	37 8	37 9	37 9	37 9	38 0	38 0	38 5	38 2	09 31	39 4	13 31	37 3	2 1	3
37 7	37 8	37 8	37 8	37 8	37 9	38 1	38 4	38 5	37 8	01 31	39 2	05 25	36 4	2 8	4
37 8	37 8	37 8	37 9	37 9	37 9	37 9	38 4	38 9	38 2	02 01	39 3	08 01	37 5	1 8	5
37 8	37 8	37 8	37 8	37 9	38 2	38 2	38 5	38 8	38 2	01 36	39 5	12 20	37 7	1 8	6
37 9	37 8	37 6	37 8	37 9	37 9	37 9	38 0	38 4	38 1	01 31	39 1	07 30	36 6	2 5	7
37 9	37 9	38 0	38 0	38 2	38 3	38 6	38 7	38 9	38 5	02 36	40 0	10 59	37 6	2 4	8
37 8	37 6	37 8	37 9	37 9	38 0	38 2	38 3	39 0	38 4	01 52	39 7	12 01	37 2	2 5	9
34 1	35 2	36 0	36 6	36 9	36 9	37 0	37 4	37 9	37 4	07 05	40 4	14 23	33 7	6 7	10
37 0	37 1	37 4	37 8	38 0	38 0	38 0	38 1	38 1	37 7	02 10	39 4	10 30	36 4	3 0	11†
38 2	38 1	38 1	38 2	38 2	38 2	38 2	38 2	38 2	38 3	07 15	40 3	11 15	37 1	3 2	12
38 3	38 3	38 3	38 3	38 3	38 4	38 3	38 3	38 3	38 3	06 15	40 5	11 09	37 2	3 3	13
38 4	38 1	37 7	38 4	38 3	38 4	38 4	38 3	38 5	39 0	07 20	41 1	17 01	37 7	3 4	14
38 2	38 4	38 4	38 4	38 4	38 5	38 6	38 5	38 5	38 7	07 13	40 2	13 30	38 1	2 1	15
37 6	38 0	38 5	38 6	38 6	38 6	38 6	38 6	38 6	38 4	01 53	39 4	13 30	37 5	1 7	16†
38 0	38 0	38 4	38 6	38 6	38 6	38 7	38 7	38 7	38 5	00 46	39 9	14 30	36 9	3 0	17
38 7	38 7	38 7	38 7	38 7	38 7	38 7	38 8	39 0	38 9	02 31	40 1	04 46	36 9	3 2	18
37 8	37 4	37 4	38 4	38 2	38 8	38 8	38 8	39 1	38 9	02 10	40 3	16 30	36 3	4 0	19†
38 8	38 8	38 9	38 8	38 9	38 9	38 9	38 9	38 9	38 7	02 01	40 4	10 30	36 5	3 9	20
38 3	38 6	38 9	38 9	38 9	38 9	38 9	39 0	39 0	38 7	02 01	40 4	09 42	37 3	3 1	21
39 0	39 0	39 1	39 1	39 1	39 1	39 1	39 1	39 1	38 9	01 58	40 0	09 31	36 6	3 4	22†
38 9	38 9	39 1	39 2	39 1	39 2	39 2	39 2	39 2	39 3	07 01	40 6	11 25	36 7	3 9	23†
39 2	39 2	39 3	39 3	39 3	39 3	39 3	39 3	39 3	39 4	06 31	40 4	10 15	38 0	2 4	24†
39 3	39 4	39 4	39 4	39 4	39 4	39 4	39 5	39 5	39 8	06 31	42 2	10 46	38 0	4 2	25
38 8	38 8	38 9	38 8	38 8	39 2	39 5	39 5	39 5	39 6	07 45	41 7	11 08	38 1	3 6	26
38 9	39 0	39 3	39 5	39 5	39 6	39 6	39 6	39 6	39 6	08 20	40 2	10 58	38 6	1 6	27†
38 9	39 3	39 5	39 5	39 5	39 6	39 6	39 6	39 7	39 6	07 45	40 4	12 15	38 8	1 6	28
38 4	39 0	39 4	39 3	39 6	39 6	39 7	39 7	39 7	39 8	03 08	41 1	04 20	38 2	2 9	29
38 7	39 1	39 4	39 6	39 6	39 6	39 7	39 7	39 7	39 4	00 07	40 1	05 01	38 0	2 1	30
39 4	39 6	39 6	39 7	39 7	39 7	39 7	39 7	39 8	39 9	08 46	41 1	04 01	39 0	2 1	31
38 1	38 2	38 4	38 5	38 5	38 6	38 7	38 8	38 9	38 7						Mean
38 5	38 5	38 6	38 7	38 6	38 7	38 7	38 9	39 0							Mean†
37 1	37 3	37 7	38 2	38 2	38 4	38 4	38 5	38 7							Mean††

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

TABLE 6
 Hourly values of Declination (Westerly), 1962
 (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†	40 3	40 1	40 0	39 7	39 6	39 6	39 7	39 7	40 0	40 3	40 3	40 3	40 1	39 7	39 7
2	41 0	41 2	41 5	41 4	40 4	39 7	39 6	39 7	40 4	40 8	40 4	40 0	39 8	39 6	39 6
3	40 4	40 8	41 0	41 1	40 5	39 8	40 0	40 8	41 0	40 7	41 1	40 4	40 3	39 7	39 7
4††	40 0	40 8	41 0	40 8	40 0	39 7	39 7	39 7	39 3	39 0	39 7	39 7	39 7	38 4	38 3
5	39 7	40 1	41 0	40 7	39 7	39 7	39 7	39 6	39 3	38 7	38 6	38 6	38 7	39 0	39 0
6	39 8	40 3	40 3	39 7	39 1	38 4	38 6	38 3	38 3	38 4	38 9	39 0	39 4	39 4	39 4
7††	41 0	41 1	41 0	40 5	39 8	39 8	39 8	40 8	40 3	39 1	38 6	39 0	39 4	39 4	39 4
8†	39 7	40 1	40 5	40 7	40 6	40 4	40 4	40 3	39 7	39 3	38 8	38 5	38 9	39 3	39 3
9	39 6	39 6	39 5	39 5	39 5	39 4	40 1	40 6	40 8	40 5	39 9	39 6	39 6	39 4	39 4
10†	39 6	39 9	40 5	40 6	40 6	40 2	39 6	39 8	40 1	39 6	39 5	39 2	39 4	39 5	39 4
11	40 1	40 3	40 6	40 8	40 8	40 8	40 8	40 9	40 7	40 5	39 5	39 4	39 3	39 3	39 4
12††	39 1	39 1	39 0	39 2	39 3	39 3	39 3	38 4	38 3	38 0	38 2	38 6	38 7	38 6	38 6
13	39 4	39 6	39 9	39 3	38 9	39 0	39 3	39 3	39 2	39 3	39 3	39 9	39 2	39 2	39 2
14	39 9	40 1	40 0	39 3	39 2	39 2	39 2	39 4	39 7	39 4	39 3	39 3	39 3	39 2	39 2
15	40 4	40 6	40 3	39 4	39 0	39 6	38 0	37 9	38 6	39 6	39 9	39 9	39 3	38 3	39 6
16††	40 7	41 0	41 0	39 2	37 3	38 9	38 8	39 2	39 1	38 4	38 1	37 5	36 4	36 4	35 6
17	38 9	39 1	38 5	39 6	40 7	39 9	39 5	39 1	38 4	37 8	37 9	38 8	39 1	38 9	38 9
18	39 2	39 2	38 9	38 2	37 5	37 5	37 8	37 7	37 8	37 8	38 6	39 5	39 3	39 1	38 9
19†	39 3	39 6	39 8	38 6	37 9	37 8	38 2	37 8	37 5	37 7	38 5	39 2	39 2	38 6	38 5
20	39 2	39 9	40 6	39 8	39 2	39 0	39 0	38 4	38 0	37 7	38 1	39 1	39 1	38 8	38 4
21	39 1	39 7	40 4	40 9	40 6	40 2	39 2	39 0	39 1	38 7	38 1	38 1	38 1	38 1	38 3
22	39 0	39 2	40 2	40 7	40 4	39 7	38 9	38 3	37 3	36 9	37 2	37 3	37 9	38 6	38 6
23	39 0	39 4	39 8	39 9	39 9	39 5	39 3	39 0	38 7	38 3	38 2	37 6	38 2	38 7	38 2
24	38 8	39 3	39 6	39 1	39 1	38 9	38 9	38 8	38 8	38 7	38 7	38 7	38 5	38 1	38 1
25	38 7	38 8	39 1	39 0	39 3	39 1	39 0	38 8	38 7	39 5	39 3	39 3	39 6	38 4	38 3
26††	38 7	38 7	39 3	39 3	39 3	39 3	39 9	39 6	38 0	38 6	38 7	39 2	39 6	40 0	39 3
27	38 6	38 5	38 2	38 5	38 6	38 6	38 7	38 6	38 5	38 5	36 2	36 4	37 2	37 3	37 2
28†	38 5	38 5	38 6	38 5	38 6	38 9	39 9	39 9	39 9	39 5	38 8	38 5	38 5	38 5	38 5
Mean	39 6	39 8	40 0	39 8	39 5	39 4	39 3	39 3	39 1	39 0	38 9	39 0	39 1	38 8	38 8
Mean†	39 5	39 6	39 9	39 6	39 5	39 4	39 6	39 5	39 4	39 3	39 2	39 1	39 2	39 1	39 1
Mean††	39 9	40 1	40 3	39 8	39 1	39 4	39 5	39 5	39 0	38 6	38 7	38 8	38 8	38 6	38 2

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

TABLE 6—Contd

Hourly values of Declination (Westerly), 1962

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

February

2° plus tabular quantities

Hours G M T										Maximum		Minimum		Date				
15	16	17	18	19	20	21	22	23	Mean	Time	Mag	Time	Mag		Range			
										H.	M.	H.	M.					
39 6	39 7	39 7	39 7	39 7	39 8	39 8	40 1	40 7	39 9	10	36	40 5	04	25	39 4	1 1	1†	
39 6	39 6	39 6	39 7	39 6	39 4	39 6	39 7	40 1	40 1	02	01	40 1	06	15	39 4	0 7	2	
39 7	39 6	39 6	39 6	39 6	39 6	39 6	39 6	39 7	39 7	40 2	02	53	41 1	14	15	39 3	1 8	3
38 2	37 6	37 5	38 2	38 3	38 3	38 6	38 4	38 7	39 1	01	50	41 2	15	12	37 2	4 0	4††	
39 1	39 4	39 6	39 6	39 6	39 6	39 6	39 6	39 7	39 7	39 5	03	10	41 1	09	30	38 4	2 7	5
39 4	39 6	39 6	39 6	39 6	39 7	39 7	39 8	39 7	39 3	23	15	41 0	07	30	38 3	2 7	6	
39 0	39 0	39 0	39 1	39 1	39 3	39 4	39 4	39 6	39 7	01	29	41 2	10	02	38 4	2 8	7††	
39 3	39 5	39 5	39 5	39 5	39 5	39 6	39 6	39 6	39 7	02	43	40 9	11	02	38 5	2 4	8†	
39 4	39 5	39 4	39 5	39 4	39 4	39 5	39 5	39 5	39 6	39 7	06	36	40 8	12	45	39 2	1 6	9
39 4	39 5	39 6	39 5	39 5	39 5	39 5	39 6	39 6	39 7	02	56	40 8	11	01	39 2	1 6	10†	
39 4	39 4	39 7	39 5	39 4	39 3	39 3	39 1	39 1	39 9	07	01	40 9	22	25	38 6	2 3	11	
38 6	39 0	39 0	39 0	39 3	39 3	39 2	39 2	39 3	38 9	05	23	39 4	08	22	37 9	1 5	12††	
39 2	39 2	39 2	39 2	39 3	39 3	39 3	39 3	39 3	39 3	01	46	40 1	04	21	38 3	1 8	13	
39 2	39 2	39 2	39 2	39 2	39 2	39 2	39 4	39 7	39 7	39 4	01	01	40 1	04	20	39 0	1 1	14
39 0	38 2	38 6	38 6	38 7	39 3	39 7	40 3	40 7	39 3	01	02	40 6	08	01	37 6	3 0	15	
36 1	35 6	36 1	35 8	35 8	36 3	36 7	37 5	37 8	37 7	01	01	41 0	04	01	35 6	5 4	16††	
38 9	38 6	35 8	38 6	39 1	38 9	39 1	39 2	39 2	38 9	04	01	40 7	08	52	37 5	3 2	17	
38 8	38 5	38 9	38 9	38 5	38 5	38 9	39 1	39 1	38 6	01	30	39 2	03	38	37 0	2 2	18	
38 5	38 5	38 5	38 5	38 6	38 8	38 9	39 1	39 2	38 6	01	46	40 0	08	03	37 4	2 6	19†	
38 5	38 4	38 5	38 5	38 5	38 5	38 7	38 7	38 8	38 8	02	01	40 5	09	01	37 7	2 8	20	
38 4	38 3	38 3	38 1	38 1	38 4	38 4	38 7	39 0	38 9	02	45	41 1	13	02	38 0	3 1	21	
38 2	37 7	38 3	37 9	37 9	38 3	38 3	38 6	38 9	38 5	03	28	40 8	08	29	36 8	4 0	22	
38 1	38 3	38 6	38 7	38 7	38 2	38 5	38 5	38 6	38 7	03	01	40 0	11	01	37 6	2 4	23	
38 1	38 1	38 1	38 1	38 0	38 1	38 2	38 5	38 5	38 6	02	25	39 6	14	08	38 0	1 6	24	
38 4	38 4	38 3	38 6	38 6	38 6	38 6	38 7	38 7	38 8	12	00	39 6	17	01	38 3	1 3	25	
39 9	39 0	38 6	38 3	37 6	37 8	38 3	38 6	38 6	38 9	06	01	39 9	18	37	37 3	2 6	26††	
37 3	37 5	37 9	38 5	38 3	38 3	38 3	38 5	38 5	38 0	04	25	39 4	10	18	35 9	3 5	27	
38 5	38 6	38 6	38 6	38 6	38 5	38 6	38 5	38 6	38 8	06	54	40 0	01	45	38 3	1 7	28†	
38 8	38 7	38 7	38 8	38 8	38 8	39 0	39 1	39 2	39 1						2 4	Mean		
39 1	39 2	39 2	39 2	39 2	39 2	39 3	39 4	39 5								Mean†		
38.4	38 0	38 0	38 1	38 0	38 2	38 4	38 6	38 8								Mean††		

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

TABLE 7
 Hourly values of Declination (Westerly), 1962
 (Average for sixty minutes centred at the full hours of Greenwich Mean Time)
 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	38 5	38 5	38 4	38 1	38 4	38 6	38 5	38 4	38 2	37 9	37 7	37 1	37 4	37 9	38 4
2	38 8	38 6	38 5	39 3	39 9	40 0	41 1	41 4	41 3	40 7	39 9	39 4	38 6	38 6	38 6
3	38 6	39 2	39 3	39 2	38 7	38 9	39 9	40 0	40 0	39 6	38 9	38 6	38 9	39 3	38 6
4	38 3	38 5	38 7	39 0	39 4	39 7	40 0	40 0	39 9	39 7	38 7	38 5	38 3	38 5	38 6
5††	39 2	39 2	38 7	38 8	39 0	39 1	40 0	40 4	40 2	39 5	38 8	38 7	38 7	37 9	38 1
6††	39 5	39 7	39 8	39 4	39 0	39 4	39 7	39 3	38 8	38 7	38 4	38 0	36 9	37 6	37 4
7	38 8	39 1	39 0	38 8	38 4	38 7	38 6	38 7	39 1	39 1	38 7	38 6	38 7	38 7	38 7
8†	39 4	39 5	39 4	38 7	38 6	38 4	38 8	40 0	40 0	39 4	38 7	38 0	38 3	38 6	38 7
9†	39 0	39 1	39 3	38 7	38 2	38 8	39 5	40 3	40 3	40 2	39 5	38 8	38 8	38 9	38 9
10	39 4	39 5	39 2	38 8	38 9	39 2	39 6	40 1	40 1	40 1	39 2	38 8	38 7	38 5	38 7
11	38 2	38 8	38 9	39 0	39 8	40 0	40 0	40 1	40 1	40 0	39 7	39 0	38 8	38 8	38 7
12††	38 0	38 0	38 0	38 3	38 6	38 8	38 7	38 7	38 8	38 3	38 0	38 1	38 1	38 0	38 0
13	38 0	38 0	38 0	38 1	38 3	38 6	38 7	39 7	40 0	39 0	38 3	38 6	38 4	38 7	38 7
14	38 7	38 8	38 8	38 6	38 5	38 6	39 7	40 0	39 7	38 9	38 2	38 1	38 5	38 6	38 6
15	39 0	38 5	38 6	38 7	38 7	39 2	39 3	39 9	39 9	39 7	39 3	38 9	38 7	39 0	39 4
16†	39 2	39 3	38 7	38 9	39 9	40 1	40 1	40 8	41 1	41 0	40 1	39 7	39 4	38 5	38 6
17	△	△	△	39 3	39 9	39 9	40 3	41 1	41 1	40 3	40 0	39 6	39 3	39 3	38 9
18	39 9	40 0	40 1	39 9	39 7	39 9	40 3	41 1	41 4	40 4	39 7	39 2	38 6	38 3	38 3
19††	37 5	37 8	37 8	38 8	40 2	40 2	40 3	△	△	△	△	△	△	△	△
20	△	△	△	38 8	39 2	39 5	39 8	40 5	41 3	40 7	39 9	39 3	38 6	38 5	38 5
21††	39 6	39 2	38 9	38 8	39 2	39 3	39 8	40 7	40 3	40 0	39 6	38 6	39 2	39 1	38 6
22	39 2	39 1	39 2	38 9	39 2	39 6	39 8	39 9	39 8	39 3	38 6	38 5	38 9	39 3	39 2
23	39 6	39 8	39 5	38 8	38 5	38 6	39 2	39 9	40 2	40 0	39 2	38 5	38 5	38 6	38 9
24	39 6	39 8	39 3	38 0	37 7	38 4	38 5	39 1	39 8	39 4	38 3	37 8	38 3	38 4	38 5
25	39 2	39 5	39 7	39 5	39 4	38 8	39 2	39 7	39 5	38 8	38 5	38 4	38 4	38 4	38 5
26	38 7	39 0	38 7	38 3	38 0	38 2	38 4	39 3	39 6	39 3	38 4	38 3	38 4	38 4	38 4
27†	38 7	39 0	38 7	38 2	37 6	37 2	38 2	39 2	39 3	38 8	38 2	38 1	38 2	38 6	38 5
28	39 0	39 0	38 6	38 4	38 2	38 4	38 8	39 5	39 5	38 7	37 4	37 3	38 0	38 1	38 2
29	38 5	38 4	38 1	37 3	37 9	38 0	38 4	39 4	39 8	39 4	38 7	38 1	38 1	38 1	38 3
30†	38 4	38 6	38 3	38 5	38 6	39 0	39 2	39 6	39 4	39 3	39 0	38 3	38 9	39 0	39 2
31	38 6	38 5	38 0	37 9	37 9	37 9	38 5	39 9	40 4	39 9	39 2	38 0	38 0	38 2	38 3
Mean	38 9	39 0	38 9	38 7	38 7	38 9	39 3	39 8	39 9	39 5	38 8	38 4	38 5	38 5	38 6
Mean†	38 9	39 1	38 9	38 6	38 6	38 7	39 2	40 0	40 0	39 7	39 1	38 6	38 7	38 7	38 8
Mean††	39 1	39 0	38 9	38 8	39 0	39 2	39 6	39 8	39 5	39 1	38 7	38 4	38 2	38 2	38 0

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

TABLE 7—Contd
 Hourly values of Declination (Westerly), 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2° plus tabular quantities

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.				
										H	M	H	M				
38 2	38 4	38 5	38 5	38 5	38 4	38 5	38 5	38 6	38 3	05	35	38 8	11	25	37 0	1 8	1
38 6	38 6	38 6	38 6	38 5	38 6	38 7	38 9	38 7	39 3	07	05	41 4	18	45	38 3	3 1	2
38 5	38 3	38 2	38 5	38 3	38 5	38 5	38 5	38 3	38 9	07	30	40 1	17	05	38 2	1 9	3
38 7	38 7	38 6	38 6	38 6	38 6	38 7	39 0	38 9	38 9	06	20	40 1	12	10	38 3	1 8	4
38 7	38 6	38 1	37 9	38 3	38 4	38 6	38 8	39 0	38 9	07	25	40 7	13	15	37 6	3 1	5†
37 3	37 6	38 0	38 3	38 1	38 0	38 3	38 4	38 7	38 5	01	45	40 0	12	20	35 9	4 1	6††
38 7	38 7	38 8	38 7	38 7	38 8	38 8	38 8	39 0	38 8	01	15	39 4	11	15	38 3	1 1	7
38 7	38 7	38 8	38 7	38 7	38 7	38 7	38 7	38 8	38 9	07	30	40 1	10	45	37 9	2 2	8†
38 9	38 9	39 1	38 9	38 9	39 1	38 9	38 9	38 9	39 1	07	40	40 5	03	45	38 1	2 4	9†
38 7	38 7	38 7	38 7	38 7	38 8	38 7	38 5	38 2	39 0	08	20	40 2	22	50	38 1	2 1	10
38 7	38 7	38 4	37 7	37 6	38 0	38 0	38 0	38 0	38 9	07	10	40 2	19	15	37 6	2 6	11
38 1	38 0	38 6	38 0	37 7	37 7	37 9	38 0	38 1	38 2	07	35	39 0	18	45	37 4	1 6	12††
38 7	38 7	38 7	38 7	38 7	38 6	38 7	38 8	38 7	38 6	07	40	40 1	01	10	37 9	2 2	13
38 7	38 7	38 7	38 6	38 7	38 7	38 7	38 7	38 7	38 8	07	05	40 1	10	15	38 0	2 1	14
39 6	39 4	39 3	39 4	39 3	39 2	39 3	39 6	39 4	39 2	06	40	40 0	01	10	38 5	1 5	15
38 5	38 7	38 9	38 6	38 6	38 5	38 5	38 6	38 6	39 3	07	45	41 3	14	35	38 2	3 1	16†
38 7	38 9	38 9	38 9	38 9	39 0	39 3	39 6	39 7	△	△	△	△	△	△	△	△	17
38 2	37 9	38 0	38 0	38 0	37 8	37 5	37 6	39 1	08	10	41 5	22	10	37 3	4 2	18	
38 6	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	19††
38 9	38 5	38 4	37 9	38 2	38 5	38 8	39 2	39 5	△	△	△	△	△	△	△	△	20
38 9	38 5	38 4	38 5	38 6	38 5	38 6	38 9	39 2	39 1	07	10	41 0	16	55	38 2	2 8	21††
38 9	39 2	38 9	39 1	38 9	39 1	39 1	39 2	39 3	39 2	07	35	40 0	11	10	38 4	1 6	22
38 9	38 9	38 8	38 8	38 8	38 8	38 9	38 8	38 9	39 1	08	20	40 3	11	30	38 4	1 9	23
38 7	38 5	38 4	38 4	38 5	38 4	38 4	38 5	38 8	38 6	08	10	39 9	02	45	37 6	2 3	24
38 7	38 5	38 4	38 4	38 5	38 4	38 4	38 5	38 7	38 8	07	25	39 8	11	35	38 3	1 5	25
38 6	38 4	38 4	38 6	38 4	38 4	38 4	38 6	38 7	38 6	07	30	39 7	04	05	38 0	1 7	26
38 5	39 2	38 9	38 6	38 5	38 3	38 6	38 9	39 2	38 6	07	25	39 5	03	35	37 1	2 4	27†
38 4	38 2	38 2	38 4	38 5	38 5	38 2	38 2	38 4	38 4	07	30	39 5	10	30	37 1	2 4	28
38 7	38 8	39 0	39 1	38 8	38 8	38 7	38 6	38 7	38 6	08	10	40 0	02	15	37 0	3 0	29
39 0	39 2	39 2	39 0	38 7	38 3	38 2	38 0	38 2	38 8	07	15	39 7	22	05	37 9	1 8	30†
38 6	38 6	38 6	38 6	38 6	38 7	38 9	39 2	39 0	38 7	07	30	40 7	02	40	37 8	2 9	31
38 6	38 6	38 6	38 6	38 5	38 5	38 6	38 6	38 7	38 8						2 3	Mean	
38 7	38 9	39 0	38 8	38 7	38 6	38 6	38 6	38 7								Mean†	
38 3	38 2	38 3	38 2	38 2	38 2	38 4	38 5	38 8								Mean††	

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

TABLE 8
 Hourly values of Declination (Westerly), 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 April
 2° plus tabular quantities

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

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

TABLE 8—Contd
 Hourly values of Declination (Westerly), 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

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

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

TABLE 9
Hourly values of Declination (Westerly), 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 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	38 2	37 6	37 8	38 6	39 7	40 3	40 4	41 0	40 4	40 0	39 3	38 9	38 9	38 9	38 9
2	37 9	37 5	37 5	38 3	39 9	40 6	41 0	40 4	39 2	38 3	37 6	37 5	38 2	38 8	38 9
3	37 8	37 4	37 8	38 9	40 0	41 3	41 6	41 3	40 0	39 2	38 8	38 6	38 8	38 9	38 9
4†	38 3	37 4	37 5	38 0	39 1	40 5	41 7	41 1	40 1	39 0	38 7	38 4	38 7	39 0	39 1
5	38 9	38 4	37 9	38 7	40 3	41 8	42 5	42 2	41 0	39 6	38 9	38 9	39 0	39 1	40 1
6†	39 0	38 7	37 9	38 7	40 5	41 8	42 4	42 4	41 8	41 2	40 4	39 0	38 3	37 6	37 6
7	37 3	36 6	36 6	37 9	39 0	40 4	41 7	41 8	40 7	40 1	39 3	38 9	38 3	38 3	38 7
8	37 6	37 3	37 2	38 4	39 9	41 8	41 9	41 9	41 6	40 4	39 1	38 7	39 0	39 1	39 1
9	38 3	37 8	37 8	39 0	40 6	42 0	43 0	43 4	43 2	41 9	40 5	39 4	39 1	39 1	39 2
10	39 1	39 1	38 1	38 8	39 9	41 0	41 6	41 9	41 3	40 3	39 3	39 3	39 2	39 2	39 3
11	39 3	39 3	39 3	39 5	40 3	40 6	41 7	42 1	42 4	41 9	40 6	39 2	39 1	39 2	39 5
12	38 8	38 2	38 2	38 6	39 2	40 0	40 6	40 6	40 4	39 4	39 2	38 7	38 5	39 0	39 3
13†	39 0	38 6	38 6	38 6	39 4	41 0	42 0	41 8	41 3	40 4	39 3	38 7	38 5	38 6	38 9
14†	39 2	38 6	38 5	39 0	40 1	40 8	41 5	41 9	40 9	40 0	38 7	38 0	38 6	38 8	38 7
15††	38 6	37 9	37 7	38 3	40 0	42 1	43 6	43 6	42 3	40 9	39 7	39 4	39 4	39 7	40 2
16	39 5	39 3	39 4	40 1	41 9	42 9	43 3	43 3	42 2	41 8	40 5	39 4	39 5	40 5	40 8
17	40 1	39 4	38 8	39 6	41 0	42 6	43 7	43 6	42 7	41 3	40 8	40 2	39 9	40 3	40 2
18†	38 9	39 4	38 8	39 0	40 1	41 5	42 9	42 8	42 2	41 2	40 1	39 4	39 4	39 5	39 5
19	39 4	38 8	38 0	38 3	39 0	40 8	42 5	43 5	42 3	40 8	39 4	39 3	38 8	39 3	39 4
20	39 4	38 4	38 0	38 4	39 5	41 2	43 6	44 2	43 7	42 8	41 1	40 1	39 1	38 7	39 1
21	38 8	38 0	37 9	38 1	39 4	40 8	42 3	43 0	42 6	41 8	40 5	39 4	38 8	38 8	38 8
22	38 7	37 7	37 9	38 8	40 2	41 9	43 5	44 7	43 7	43 5	42 2	40 8	39 5	39 4	39 4
23†	39 3	38 4	38 0	38 4	39 3	40 2	41 2	42 5	42 9	42 1	40 8	40 4	39 7	39 3	38 4
24†	39 1	38 3	38 1	39 4	40 8	41 5	42 2	42 2	42 1	40 9	40 1	39 4	39 1	39 3	39 4
25†	39 3	38 8	38 1	38 7	40 1	40 9	42 1	42 1	41 9	40 7	40 1	39 4	39 4	39 5	39 5
26	39 1	38 4	38 1	38 6	39 4	40 7	41 4	41 9	41 9	40 9	40 7	40 1	39 8	40 1	40 2
27	38 8	38 3	38 4	39 3	40 7	42 1	42 2	41 9	40 9	40 1	39 3	39 1	39 3	40 1	40 1
28	38 6	37 3	37 2	38 4	40 1	41 6	42 3	42 9	42 9	41 9	40 8	40 1	39 5	39 4	39 4
29	38 7	38 0	37 6	38 0	38 5	39 3	39 9	40 3	39 4	39 2	39 0	38 9	38 9	39 2	39 3
30	38 5	37 8	37 8	38 6	39 6	40 8	42 0	41 8	40 8	40 3	39 3	39 2	39 2	39 3	39 4
31††	38 7	37 9	38 2	38 9	39 7	41 1	41 4	40 6	40 3	40 1	39 3	38 6	36 9	36 8	37 9
Mean	38 8	38 2	38 0	38 7	39 9	41 2	42 1	42 2	41 6	40 7	39 7	39 2	39 0	39 1	39 3
Mcan†	39 0	38 5	38 1	38 7	39 9	40 9	42 0	42 1	41 8	40 8	40 0	39 4	39 3	39 3	39 4
Mean††	38 9	38 3	38 2	38 7	39 9	41 4	42 2	42 1	41 3	40 5	39 5	38 7	38 3	38 3	38 7

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

TABLE 9—Contd
 Hourly values of Declination (Westerly), 1962
 (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					
39 0	38 9	38 8	38 6	38 5	38 3	38 5	38 3	38 2	39 0	06	50	41	05	17	6	4	0	1
39 0	38 9	39 0	38 9	38 6	38 2	37 9	38 1	38 2	38 7	06	15	41	01	30	37	4	3	2
38 9	38 9	38 9	38 8	38 6	38 6	38 6	38 8	38 6	39 1	06	05	41	01	20	37	3	4	3
39 1	39 0	39 0	39 0	39 0	38 9	38 6	38 9	38 7	39 0	06	10	41	01	25	37	3	4	4†
40 3	40 0	39 7	39 4	39 1	39 1	39 0	38 9	38 7	39 6	06	15	42	01	35	37	6	5	5
36 8	36 5	37 0	37 3	37 5	37 5	37 5	37 3	37 5	38 8	06	20	42	16	10	36	3	6	6††
38 9	39 0	38 9	38 9	38 6	38 4	38 4	38 3	37 9	38 9	06	40	41	01	40	36	3	5	7
39 1	39 1	39 0	39 1	39 0	38 8	38 7	38 4	38 3	39 3	06	30	42	01	25	37	0	5	8
39 2	39 4	39 2	39 2	39 1	39 2	39 1	39 1	39 1	39 9	07	15	43	01	30	37	7	5	9
39 3	39 3	39 3	39 2	39 2	39 3	39 2	39 2	39 2	39 6	06	40	42	01	50	38	0	4	10
39 2	39 1	38 9	38 9	38 8	39 1	39 2	39 1	39 1	39 8	07	35	42	19	05	38	6	4	11
39 3	39 3	39 2	39 2	39 3	39 3	39 3	39 2	39 3	39 3	06	30	40	01	45	38	1	2	12
39 2	39 2	39 3	39 2	39 2	39 2	39 2	39 2	39 2	39 0	05	45	42	01	50	38	3	3	13††
39 3	39 1	39 3	39 4	39 3	39 1	39 0	38 7	38 7	39 4	07	10	42	11	25	37	9	4	14†
40 1	39 8	40 0	39 7	39 8	39 7	40 0	40 1	39 8	40 1	06	30	43	01	40	37	6	6	15†
40 8	40 8	40 8	40 7	40 8	40 7	40 7	40 7	40 4	40 9	06	35	43	01	00	39	3	4	16
39 9	40 2	40 2	40 2	40 2	40 2	40 2	40 2	40 2	39 9	06	05	43	01	50	38	7	5	17
39 5	39 4	39 4	39 4	39 5	39 5	39 7	39 5	39 7	40 0	06	20	43	02	05	38	7	4	18†
39 4	39 4	39 4	39 5	39 4	39 4	39 4	39 4	39 5	39 4	07	35	43	01	55	37	9	5	19
39 0	38 8	38 7	38 8	39 0	39 1	38 8	39 1	39 0	39 9	06	35	44	02	10	37	9	6	20
38 8	39 0	39 1	39 3	39 3	39 3	39 3	39 3	39 0	39 6	06	50	43	02	10	37	7	5	21
39 4	39 5	39 7	39 5	39 5	39 5	39 4	39 4	39 4	40 3	07	15	44	01	10	37	6	6	22
39 5	39 5	39 7	39 5	39 4	39 4	39 4	39 3	39 4	39 9	07	25	43	02	10	37	9	5	23†
39 5	39 5	39 5	39 5	39 4	39 4	39 4	39 4	39 4	39 9	06	20	42	01	55	38	0	4	24†
39 5	39 5	39 5	39 4	39 3	39 3	39 1	39 3	39 3	39 8	06	45	42	01	50	38	0	4	25†
40 4	40 2	40 1	39 8	39 5	39 4	39 4	39 3	39 1	39 9	07	30	42	01	55	38	0	4	26
39 8	39 4	39 4	39 3	38 8	38 7	38 6	38 7	39 0	39 7	05	35	42	01	10	38	0	4	27
39 1	39 0	38 7	38 7	38 8	38 8	39 0	39 3	39 1	39 7	07	30	43	01	40	37	0	6	28
39 4	39 3	39 3	39 2	39 2	39 0	38 9	38 7	38 6	39 0	06	40	40	02	05	37	3	3	29
39 4	39 3	39 3	39 3	39 2	39 0	39 2	39 3	39 2	39 5	06	25	42	01	20	37	6	4	30
38 2	38 5	38 3	38 5	38 2	37 9	37 8	37 9	37 8	38 7	05	35	41	12	10	36	5	5	31††
39 3	39 3	39 2	39 2	39 1	39 1	39 0	39 0	39 0	39 6						4	4		Mean
39 4	39 4	39 4	39 4	39 3	39 3	39 2	39 3	39 3										Mean†
38 7	38 6	38 8	38 8	38 8	38 8	38 7	38 7	38 6	38 6									Mean††

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

TABLE 10
 Hourly values of Declination (Westerly), 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 June
 2° plus tabular quantities

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

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

TABLE 10
 Hourly values of Declination (Westerly), 1962
 (Average for sixty minutes centred at the full hours of Greenwich Mean Time)
 2° plus tabular quantities

Hours G M T										Maximum Minimum				Date
Mean										Range				
15	16	17	18	19	20	21	22	23		Time	Mag	Time	Mag	
										H	M	H	M	
39 3	39 3	39 2	39 2	38 6	38 6	38 6	38 6	38 5	38 7	06	30	40	30	01 00 36 1 4 2
39 2	38 6	38 6	38 5	38 3	38 2	37 9	38 0	38 0	38 5	07	15	40	07	02 00 36 4 4 3
39 2	39 0	38 6	38 6	38 5	38 3	38 2	38 2	37 8	38 6	06	30	41	30	02 00 36 8 4 5
38 3	38 5	38 3	38 2	37 9	38 0	37 9	38 0	37 9	38 7	06	35	42	10	01 15 36 5 5 5
38 6	38 6	38 3	38 5	38 3	38 0	37 9	37 8	37 1	38 7	06	00	40	08	01 00 36 4 4 4
39 3	39 3	39 2	39 0	39 0	38 6	37 8	38 6	38 6	39 2	06	35	41	44	01 05 36 5 4 9
39 2	39 2	39 2	39 2	39 1	39 1	39 1	39 1	39 1	39 4	06	40	42	10	01 00 37 8 4 3
39 2	39 2	39 0	39 0	39 2	39 2	39 2	39 1	39 1	39 5	07	07	42	06	01 35 37 9 4 7
39 3	39 7	39 4	39 1	38 9	38 9	38 6	38 9	38 9	39 3	06	30	42	05	02 00 37 8 4 7
38 9	38 9	38 9	38 8	38 8	38 8	38 8	38 2	38 2	38 7	06	00	41	03	02 00 36 6 4 7
38 1	39 1	39 2	39 5	38 1	38 7	38 1	38 1	38 0	38 6	06	45	39	08	01 45 37 5 2 3
38 4	38 8	38 2	38 4	38 4	38 2	38 1	38 2	38 1	38 6	07	00	40	09	11 00 37 3 3 6
39 4	39 4	38 7	38 6	38 3	38 4	38 4	38 4	38 6	38 1	06	55	41	04	01 00 37 4 4 0
38 4	38 4	39 0	38 8	39 3	39 3	38 9	38 3	38 0	38 8	06	35	41	06	01 00 37 9 3 7
38 5	38 7	38 6	38 7	39 0	39 0	38 9	38 2	38 0	39 0	06	00	42	00	02 00 36 6 5 4
39 1	39 2	38 9	38 5	38 6	38 5	38 5	39 1	38 9	38 9	07	00	42	00	02 10 36 5 5 5
39 1	39 2	39 1	39 1	39 1	39 2	39 0	39 1	38 8	39 1	06	15	41	09	03 00 36 1 5 8
38 6	39 0	39 0	38 4	38 9	39 0	39 0	39 0	38 4	39 2	06	00	42	05	01 15 37 6 4 9
39 0	39 0	38 3	38 4	39 0	39 1	38 5	38 6	38 4	39 0	06	55	42	01	02 00 36 1 6 0
39 5	38 8	38 9	38 9	38 2	38 2	38 2	38 6	38 2	39 0	07	45	41	00	01 53 36 2 4 8
39 6	38 9	38 9	38 9	38 3	37 9	37 5	38 5	37 6	39 1	07	30	41	07	01 35 36 7 5 0
38 8	38 8	38 1	38 1	38 1	37 8	37 7	37 7	37 4	38 6	07	55	41	03	01 55 35 8 5 5
38 3	38 4	38 0	37 9	37 4	38 0	37 3	37 3	37 2	38 3	07	00	41	05	02 00 35 3 6 2
38 4	38 0	38 7	38 4	37 3	37 3	37 3	37 4	37 3	37 8	08	30	40	07	02 00 34 8 5 9
38 3	38 6	37 9	38 2	37 6	37 5	37 8	37 2	37 2	37 9	08	07	40	01	02 10 34 5 5 6
38 6	38 6	38 3	38 5	37 9	37 2	37 2	37 2	36 5	37 6	07	00	40	01	01 42 34 4 5 7
37 7	38 4	38 2	37 8	37 5	36 2	37 1	36 4	36 1	37 3	06	16	39	03	03 00 35 8 3 5
38 5	38 2	37 8	37 5	37 1	37 1	37 1	37 1	37 1	37 7	08	07	40	06	01 35 34 9 5 7
37 8	37 7	37 6	37 4	37 1	37 0	37 0	37 0	Δ	Δ	Δ	Δ	Δ	Δ	Δ
38 4	38 1	38 2	37 1	37 1	37 4	37 1	37 1	37 4	Δ	Δ	Δ	Δ	Δ	Δ
														31
38 8	38 9	38 7	38 6	38 4	38 3	38 2	38 1	38 0	38 7					4 8
39 1	39 0	38 9	38 8	38 9	38 9	38 8	38 9	38 6						Mean †
38 5	38 7	38 5	38 2	37 9	37 9	37 8	37 6	37 5						Mean ††

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

TABLE 11
 Hourly values of Horizontal Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 39,000 γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	566	570	582	589	593	599	596	597	599	607	602	588	573	567	564
2	566	571	575	580	587	605	627	616	597	578	563	559	548	544	542
3	562	568	576	585	594	599	602	602	602	603	599	584	568	562	560
4†	568	576	589	598	607	611	613	613	601	588	579	570	566	569	567
5†	572	578	589	600	610	611	606	604	598	594	595	591	586	584	583
6	584	592	600	603	604	607	614	625	626	620	605	591	580	578	577
7	583	587	595	602	607	615	620	623	629	627	616	603	595	589	583
8	567	574	584	597	608	623	627	625	619	609	590	582	586	584	575
9	581	583	584	582	593	606	617	617	615	611	602	587	572	561	559
10††	576	576	594	623	614	607	609	632	662	668	583	489	423	392	393
11††	509	517	527	533	542	560	564	565	550	532	526	526	534	529	520
12	540	544	556	569	586	605	620	623	611	597	580	560	548	542	542
13	544	550	560	572	594	623	642	643	618	590	565	550	547	550	547
14	560	564	573	587	607	619	636	642	634	612	592	576	566	563	560
15	562	559	551	549	571	590	593	590	572	546	539	545	551	550	548
16††	565	566	565	570	587	606	619	602	602	594	577	562	547	546	542
17	555	561	567	580	593	605	605	602	596	587	577	571	567	561	561
18	562	573	591	612	635	651	645	618	587	566	561	567	570	570	570
19††	574	584	602	616	634	647	637	602	599	581	575	573	570	561	538
20	544	559	579	595	615	620	618	605	574	550	544	553	561	558	556
21	564	570	582	606	637	659	661	645	620	588	567	561	561	555	555
22†	555	559	571	594	623	646	641	613	573	545	536	545	557	561	559
23†	559	562	572	589	615	642	657	656	636	604	578	566	568	570	564
24†	565	566	575	595	620	635	640	630	611	586	568	566	571	573	571
25	570	573	583	597	623	654	682	685	671	628	597	580	576	576	573
26	579	574	565	571	598	638	666	668	642	611	581	562	559	560	558
27††	559	561	565	570	592	612	622	634	616	589	558	554	559	557	554
28	559	558	559	567	590	607	618	618	625	610	592	578	568	565	562
29	559	556	550	556	570	586	609	623	623	616	609	592	577	555	544
30	556	561	566	579	594	617	621	611	597	575	562	558	557	553	550
31	556	558	567	583	598	615	622	628	637	635	618	598	584	572	567
Mean	562	566	574	585	601	617	624	621	611	595	579	567	561	557	553
Mean†	564	568	579	595	615	629	631	623	604	583	571	568	570	571	569
Mean††	557	561	571	582	594	606	610	607	606	593	564	541	527	517	509

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

TABLE 11

Hourly values of Horizontal Force, 1962

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

January										39,000 γ plus tabular quantities							
Hours G M T										Maximum		Minimum		Range		Range	Date
15	16	17	18	19	20	21	22	23	Mean		Time	Mag	Time	Mag	Mag		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ		
564	563	562	562	565	566	567	565	562	578	09 05	609	23 12	560	49	1		
547	548	547	550	551	557	558	556	556	568	06 05	636	14 00	541	95	2		
562	563	562	564	562	564	567	565	566	577	06 10	604	14 00	559	45	3		
566	565	565	567	568	569	569	570	570	580	06 36	617	16 00	565	52	4		
584	584	581	579	579	578	578	578	581	588	04 40	614	00 01	571	43	5		
577	574	570	569	567	571	577	579	582	591	07 41	628	18 48	567	61	6		
575	566	560	566	574	570	564	561	562	590	07 58	633	17 15	558	75	7		
567	557	562	567	571	575	575	576	578	587	06 33	628	16 05	557	71	8		
553	550	550	550	558	570	565	566	573	579	06 00	620	17 33	543	77	9		
402	396	426	446	480	504	495	500	507	525	08 28	694	13 29	377	317	10††		
520	523	526	536	536	534	537	539	542	534	06 29	575	00 08	507	68	11††		
543	544	545	546	546	545	545	545	545	564	06 47	627	00 01	537	90	12		
550	549	552	553	553	556	553	554	557	570	06 32	647	00 01	542	105	13		
550	530	514	528	523	530	537	538	554	571	06 50	644	17 10	511	133	14		
549	552	554	556	557	559	558	551	557	559	05 03	603	09 48	538	65	15		
542	543	545	556	560	552	553	555	553	567	06 07	626	14 20	538	88	16††		
561	561	561	556	555	556	560	558	559	571	04 50	608	19 30	554	54	17		
567	567	567	566	567	569	570	571	583	05 12	633	09 45	559	94	18			
516	514	507	535	528	533	538	539	540	568	05 11	657	16 05	500	157	19††		
555	554	553	552	558	558	561	560	561	568	05 00	629	09 45	542	87	20		
556	556	556	556	558	559	559	564	559	581	05 32	674	13 00	552	122	21		
559	557	557	559	559	560	560	559	559	571	05 25	652	09 45	532	120	22†		
559	560	562	563	563	564	564	564	564	583	06 20	660	15 15	557	103	23†		
570	567	566	569	570	569	569	569	570	583	05 45	641	00 01	565	76	24†		
569	568	568	568	568	567	569	572	573	595	06 34	689	17 00	565	124	25		
548	546	548	549	544	550	556	558	559	579	06 35	670	19 10	543	127	26		
551	551	553	553	555	557	562	560	562	571	07 00	642	15 52	550	92	27††		
561	557	556	555	557	559	559	560	559	575	07 48	630	18 25	554	76	28		
546	551	556	556	558	559	561	562	558	572	07 30	628	14 00	542	86	29		
549	555	560	561	562	561	559	558	556	570	05 35	631	15 00	547	84	30		
567	566	566	566	565	566	567	567	567	585	08 18	640	00 45	556	84	31		
551	550	550	554	555	558	558	559	560	574				94		Mean		
568	567	566	567	568	568	568	568	569							Mean†		
506	505	511	525	532	536	537	539	541							Mean††		

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

TABLE 12
Hourly values of Horizontal Force, 1962

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

February

39,000 γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1†	569	570	564	558	564	568	579	591	604	608	600	593	589	588	586
2	575	578	586	596	608	622	637	643	638	624	607	592	583	577	572
3	566	573	583	598	614	629	639	636	615	602	590	579	576	574	572
4††	568	580	595	610	624	639	644	643	630	619	648	629	610	536	495
5	536	541	557	547	541	553	556	546	538	535	537	540	541	540	539
6	552	557	562	577	591	602	602	587	573	562	558	560	565	562	562
7††	578	572	566	587	600	615	634	652	643	606	581	573	561	554	552
8†	550	552	563	579	600	615	626	626	610	589	575	567	567	564	562
9	567	564	566	582	607	626	640	644	631	613	596	579	567	565	564
10†	566	570	582	598	617	632	638	638	634	623	607	588	576	571	570
11	576	579	584	591	597	608	618	620	614	609	610	607	588	579	582
12††	534	534	530	540	567	587	608	601	592	583	577	567	554	546	544
13	558	561	571	584	584	588	585	580	577	580	583	571	561	560	560
14	569	569	570	574	581	593	601	606	604	594	583	572	562	557	555
15	565	570	574	578	596	583	587	593	601	605	610	598	578	565	565
16††	601	609	624	628	635	651	635	633	632	616	584	506	461	478	463
17	526	538	552	559	566	558	546	542	520	509	510	524	534	533	516
18	544	551	561	574	586	593	591	579	566	548	548	560	563	560	557
19†	552	559	574	586	600	603	592	574	564	553	561	572	569	556	550
20	558	565	583	607	627	641	647	629	597	569	559	567	571	561	557
21	558	564	577	599	627	648	642	617	595	577	572	575	569	559	554
22	554	561	579	627	650	662	650	639	612	591	582	568	554	556	553
23	558	563	574	592	619	634	634	627	619	604	581	565	566	566	551
24	554	555	567	580	611	629	634	627	621	604	587	572	562	551	545
25	554	560	573	592	612	635	650	641	635	619	603	584	575	563	558
26††	564	562	570	587	618	636	654	646	632	619	623	614	617	631	619
27	550	552	569	588	619	648	655	631	589	559	527	520	509	492	491
28†	545	548	562	577	594	609	609	612	585	572	563	560	561	563	560
Mean	559	563	572	586	602	615	619	614	603	589	581	572	564	557	553
Mean†	556	560	569	580	595	605	609	608	599	589	581	576	572	568	566
Mean††	569	571	577	590	609	626	635	635	626	609	603	578	561	529	535

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

TABLE 12
 Hourly values of Horizontal Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 February 39,000 γ plus tabular quantities

Hours G M T										Maximum		Minimum		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	
581	581	582	581	582	581	580	580	577	582	09 00	609	02 56	557	52	1†
571	571	572	571	568	564	563	560	561	589	06 25	644	22 00	558	86	2
572	566	566	566	566	565	566	566	565	585	06 12	641	15 43	563	78	3
458	438	436	471	480	488	503	507	517	557	09 52	656	16 13	427	229	4††
541	543	544	548	546	549	549	551	552	545	03 10	569	03 17	484	85	5
560	560	563	564	566	564	568	571	570	569	05 55	611	00 01	551	60	6
552	543	539	549	547	548	549	549	548	575	07 03	659	16 58	534	125	7††
562	562	563	563	563	565	565	565	566	576	06 23	629	00 01	550	79	8†
562	562	560	562	562	565	565	563	565	582	06 57	646	17 10	559	87	9
571	572	571	571	569	573	573	572	581	590	07 03	641	00 01	566	75	10†
584	582	584	579	572	558	545	541	534	585	06 35	622	23 46	531	91	11
540	543	546	544	557	564	555	555	557	559	06 22	628	02 10	526	102	12††
558	551	553	553	559	560	560	560	562	567	03 25	594	17 45	547	47	13
551	554	560	559	556	552	577	568	563	572	07 18	609	14 40	549	60	14
571	575	568	585	569	574	585	590	593	582	09 40	612	18 53	555	57	15
425	420	451	456	474	497	496	506	514	542	05 15	668	15 28	413	255	16††
533	530	533	532	541	538	536	536	539	536	04 05	571	08 58	506	65	17
555	553	551	547	554	545	548	547	550	560	05 45	599	09 20	540	59	18
549	551	553	552	552	553	553	555	557	564	04 02	607	14 25	547	60	19†
559	559	560	560	560	557	554	550	557	577	05 52	655	21 45	548	107	20
555	543	556	548	547	547	551	554	556	575	05 14	655	16 07	541	114	21
535	530	538	546	549	552	553	556	560	577	05 16	667	16 07	526	141	22
547	550	550	551	552	550	551	554	560	576	05 10	640	14 25	543	97	23
536	537	543	547	540	550	553	553	556	571	06 10	641	14 12	533	108	24
556	555	556	562	558	560	566	563	558	583	06 15	656	16 35	553	103	25
627	595	581	548	525	521	536	547	551	593	05 58	659	19 53	518	141	26††
508	519	516	526	526	532	537	544	545	552	05 16	680	13 34	490	190	27
559	557	559	560	560	560	562	564	565	569	07 05	629	00 30	544	85	28†
549	547	548	550	550	551	554	555	556	571				101		Mean
564	565	566	565	565	566	567	567	569							Mean†
520	508	511	514	517	524	528	533	537							Mean††

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

TABLE 13
 Hourly values of Horizontal Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 March 39,000 γ plus tabular quantities

Date	Hours G M T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	566	567	578	601	636	661	677	676	634	603	587	578	577	569	567
2	563	563	567	576	610	624	649	641	621	594	579	575	578	575	560
3	569	578	590	614	639	664	680	669	646	624	608	601	601	604	572
4	551	552	555	578	621	652	665	655	628	607	595	580	574	575	572
5††	574	574	584	606	642	665	674	675	649	604	571	567	576	551	534
6††	566	571	583	599	605	620	614	629	595	589	572	554	520	530	520
7	549	553	563	581	608	632	644	641	623	598	578	566	562	561	560
8†	557	557	557	573	603	635	660	659	633	606	582	569	566	567	565
9†	563	563	568	586	619	658	674	673	648	615	592	578	573	574	573
10	577	575	581	599	631	655	666	657	642	626	593	566	552	538	533
11	555	558	554	566	608	624	627	630	614	610	591	569	566	564	561
12††	558	556	560	570	591	616	618	618	622	600	590	568	548	538	527
13	551	555	557	571	591	616	629	626	608	585	572	567	564	561	559
14	562	564	576	595	626	655	671	663	636	605	581	571	566	563	558
15	572	569	578	607	627	652	656	647	631	613	596	586	579	577	577
16†	578	580	589	606	644	658	664	662	640	624	604	592	581	577	574
17	571	△	△	△	658	685	694	671	646	619	597	586	581	577	571
18	580	581	595	617	647	680	706	695	665	637	610	597	581	558	558
19††	566	569	586	622	657	687	△	△	△	△	△	△	△	△	△
20	△	△	△	△	642	665	668	657	637	619	592	582	578	569	558
21††	557	561	573	607	642	673	673	656	612	589	568	560	567	569	561
22	564	566	583	613	648	677	680	656	622	593	575	572	578	580	576
23	569	570	581	613	648	684	697	685	650	617	590	567	567	573	573
24	569	563	572	583	609	641	661	660	647	612	590	581	577	580	577
25	578	581	594	623	649	666	669	657	623	597	585	572	557	552	558
26	563	563	577	597	624	650	661	652	637	619	597	583	577	579	574
27†	570	572	584	613	648	679	689	679	654	629	607	594	586	582	573
28	575	574	581	608	646	680	694	690	666	631	610	594	582	571	564
29	555	555	557	559	584	607	625	619	598	586	576	572	569	559	555
30†	563	564	579	604	634	663	668	665	647	620	598	585	579	575	575
31	562	565	575	602	638	672	683	684	653	628	599	578	577	581	579
Mean	565	566	575	595	626	652	663	658	634	609	589	576	571	567	562
Mean†	566	567	575	596	630	659	671	668	644	619	597	584	577	575	572
Mean††	564	566	575	596	620	644	645	644	620	596	575	562	552	547	536

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

TABLE 13

Hourly values of Horizontal Force, 1962

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

March

39,000 γ plus tabula quantities

										Maximum		Minimum		Range		Date
										Mean						
15	16	17	18	19	20	21	22	23	24	Time	Mag	Time	Mag	γ	γ	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ		
564	570	568	563	563	566	572	568	564	591	06 55	688	17 50	561	127	1	
557	558	562	557	563	562	567	569	568	581	06 20	654	16 08	554	100	2	
564	549	539	538	543	547	546	545	544	591	06 02	685	18 15	536	149	3	
572	569	567	566	567	567	569	570	572	587	06 17	675	01 35	548	127	4	
551	541	541	525	530	540	546	551	557	580	06 43	684	18 05	520	164	5||	
521	523	543	545	551	554	549	549	548	565	07 15	650	12 22	495	155	6|	
557	557	558	558	556	557	558	559	557	576	06 25	648	00 01	549	99	7	
563	562	560	560	560	561	561	562	562	581	06 14	667	01 45	555	112	8|	
570	569	570	571	570	568	570	573	576	591	06 30	677	00 46	562	115	9|	
535	541	541	552	552	555	553	544	547	580	06 15	669	14 15	527	142	10	
560	559	556	552	550	566	561	559	559	576	06 02	635	19 13	550	85	11	
517	516	548	536	526	532	535	544	548	562	07 38	631	15 15	511	120	12†	
555	555	554	554	558	559	561	561	562	572	06 15	637	00 01	551	86	13	
558	561	558	562	569	569	569	570	574	587	06 12	674	15 02	556	118	14	
575	571	572	573	569	569	565	577	579	592	05 36	662	21 30	560	102	15	
571	571	569	570	571	570	574	575	571	596	06 30	671	17 14	568	103	16†	
568	571	574	574	575	578	579	582	582	△	△	△	△	△	△	17	
558	558	561	558	557	559	563	561	564	598	06 30	712	13 25	552	160	18	
△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	19††	
555	555	549	543	543	555	561	561	560	△	△	△	△	△	△	20	
559	542	538	543	560	550	548	549	566	580	05 10	697	17 56	537	155	21†	
572	570	567	566	568	568	570	564	573	592	05 05	693	22 18	558	135	22	
571	569	566	566	564	566	568	570	571	596	06 10	700	11 27	560	140	23	
575	574	568	562	564	568	570	572	571	589	06 20	667	18 20	560	107	24	
562	559	553	553	556	557	559	559	561	587	05 58	683	17 25	550	133	25	
571	573	574	573	572	573	574	576	576	592	05 45	665	00 25	563	102	26	
572	572	575	572	569	572	575	577	577	601	06 45	695	19 00	569	126	27|	
563	558	555	558	560	557	553	559	560	595	05 28	696	20 47	551	145	28	
561	561	561	562	561	562	563	566	566	572	05 32	630	00 33	551	79	29	
574	571	569	567	563	562	558	557	560	592	06 37	676	22 00	557	119	30|	
576	574	574	571	575	579	582	583	579	599	06 39	691	00 01	561	130	31	
561	559	560	558	560	561	562	563	565	586					123	Mean	
570	569	569	568	567	567	568	569	569								Mean|
537	530	542	537	542	544	544	548	555								Mean††

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

TABLE 14
Hourly values of Horizontal Force, 1962
(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
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	* γ	γ
1	588	592	605	629	673	695	706	663	643	584	563	557	549	547	547
2	568	565	570	595	629	662	666	647	622	603	585	580	580	575	568
3	582	576	581	611	649	670	663	610	598	587	576	575	575	570	563
4	563	568	588	621	640	647	629	605	578	547	528	542	555	562	562
5	564	562	563	589	612	636	657	649	611	608	583	566	563	567	565
6††	579	585	606	646	667	691	680	670	614	585	544	530	530	537	540
7††	537	542	550	579	583	602	605	588	548	510	502	507	488	490	494
8††	539	536	537	563	599	622	620	612	597	583	565	559	541	534	516
9	530	537	549	546	583	600	600	583	569	565	560	554	550	541	532
10††	546	549	563	580	596	616	618	601	589	560	513	502	495	514	506
11	526	523	529	554	572	584	583	560	550	542	532	525	525	529	535
12	540	540	546	568	596	616	615	601	576	560	554	554	556	548	541
13†	534	537	551	578	614	644	646	616	584	556	550	555	557	556	551
14†	544	549	564	601	634	662	662	643	617	596	585	579	573	566	563
15	560	563	577	607	635	646	649	637	615	602	592	583	578	579	592
16	556	564	589	625	638	663	667	655	635	623	590	576	570	559	552
17	569	568	587	614	633	644	644	638	612	586	573	571	570	559	554
18	558	561	572	599	629	638	631	597	552	525	526	535	557	557	538
19	558	565	586	619	665	675	675	632	599	579	573	573	570	564	561
20	555	559	576	615	648	673	672	644	607	578	563	567	573	574	570
21	577	588	605	642	690	709	703	658	602	570	555	573	594	594	583
22††	537	539	535	577	616	638	626	596	569	534	514	500	500	515	508
23	537	535	547	571	597	615	607	584	560	542	530	528	530	534	533
24†	538	542	564	600	637	655	652	628	598	564	550	552	560	557	555
25	551	554	577	621	662	685	676	649	612	583	569	547	554	560	569
26	551	557	583	616	649	679	659	634	586	547	540	534	524	526	532
27	549	546	555	581	611	620	623	611	592	573	561	552	546	547	544
28	547	550	564	592	605	614	615	608	594	581	574	569	564	557	553
29†	551	559	578	610	636	653	643	615	584	566	561	564	563	550	541
30†	551	559	579	605	620	624	613	605	592	578	568	566	568	567	565
Mean	553	556	569	598	627	646	644	621	594	571	556	522	552	551	548
Mean†	544	549	567	599	628	648	643	621	595	572	563	563	564	559	555
Mean††	548	550	558	589	612	634	630	613	583	554	528	570	511	518	513

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

TABLE 14
Hourly values of Horizontal Force, 1962
(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

April										39,000 γ plus tabular quantities								Date
										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	γ	γ	H	M	H	M	γ	γ			
552	553	553	555	557	559	566	566	568	590	06	02	724	13	50	546	178	1	
563	559	557	559	562	566	572	565	563	587	05	19	670	17	33	556	114	2	
562	554	552	551	549	551	556	563	563	583	05	11	681	18	20	545	136	3	
562	560	559	558	562	565	565	567	567	574	05	00	655	09	54	522	133	4	
563	563	565	565	567	571	573	576	581	585	06	07	658	02	16	557	101	5	
542	543	545	544	553	539	541	560	547	580	04	50	704	10	50	521	183	6†	
516	521	518	524	532	545	536	533	436	537	05	20	633	13	25	481	152	7††	
507	524	513	490	495	498	513	519	522	546	05	30	632	17	35	485	147	8†	
529	531	534	534	535	531	536	542	547	551	05	43	612	15	14	527	85	9	
511	501	504	515	520	512	515	525	529	541	05	29	629	11	45	484	145	10†	
534	517	517	529	528	529	544	539	540	539	05	10	591	16	30	510	81	11	
544	550	549	548	543	540	541	537	533	558	04	50	620	23	48	531	89	12	
551	550	551	549	545	544	545	544	545	565	05	23	653	00	01	533	120	13†	
561	558	556	557	555	557	559	558	558	582	05	25	667	00	25	543	124	14†	
587	564	548	546	556	560	567	564	569	596	05	56	658	17	12	544	114	15	
545	543	546	552	556	556	563	567	567	586	05	23	677	16	00	543	134	16	
552	555	556	554	555	558	558	556	558	580	05	15	651	15	07	550	101	17	
543	545	545	551	555	558	561	558	558	565	05	42	647	09	33	517	130	18	
561	561	559	560	560	561	561	561	556	585	06	20	692	23	30	554	128	19	
570	565	561	564	561	560	560	561	561	585	05	20	681	00	30	554	127	20	
578	580	552	523	507	517	536	529	526	587	05	10	715	19	03	500	215	21	
508	507	512	513	518	523	536	535	543	542	04	48	644	11	10	491	153	22††	
531	533	537	542	545	543	542	542	538	550	04	54	622	10	55	526	96	23	
559	562	560	553	562	559	559	558	555	574	04	55	658	00	01	538	120	24†	
561	548	547	551	552	561	556	554	554	581	05	30	691	11	02	538	153	25	
538	542	546	547	549	551	548	549	550	568	05	15	696	12	20	523	173	26	
544	545	546	547	544	552	555	552	552	564	06	11	628	19	25	541	87	27	
558	557	552	557	558	555	558	558	553	571	05	10	627	00	25	545	82	28	
552	555	555	552	549	549	555	556	550	573	04	52	657	14	05	537	120	29†	
556	546	547	554	556	560	555	553	557	573	05	05	627	16	40	542	85	30†	
548	546	545	545	546	548	551	552	551	570						127		Mean	
556	554	554	553	553	554	555	554	553									Mean†	
517	519	518	517	524	523	528	534	535									Mean††	

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

TABLE 15
Hourly values of Horizontal Force, 1962
(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

May 39,000 g_r plus tabular quantities

Date	Hour, G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	558	563	581	606	628	634	617	600	583	568	565	571	571	565	559
2	560	562	580	604	617	614	604	586	568	559	550	550	553	553	550
3	549	553	568	589	611	618	608	594	556	531	525	544	553	556	557
4†	554	562	590	623	651	663	656	634	603	579	571	574	576	574	571
5	567	576	602	641	677	698	688	661	614	569	547	555	571	580	583
6††	595	600	617	652	691	708	707	696	666	631	597	569	535	512	481
7	519	526	549	571	594	609	618	613	592	564	539	528	529	536	539
8	536	543	563	590	611	643	626	622	610	588	569	564	562	557	555
9	550	570	559	584	609	629	636	628	606	584	563	557	557	559	560
10	560	561	568	592	622	642	646	640	620	594	577	570	566	561	560
11	556	557	569	594	615	658	668	646	534	612	595	588	579	565	567
12	556	562	578	603	624	634	624	605	588	577	567	564	561	561	560
13††	566	571	584	616	637	629	634	623	615	592	579	568	556	550	545
14††	561	558	553	576	587	591	593	570	563	553	548	543	531	548	
15††	551	554	568	604	638	660	664	654	610	593	571	567	565	566	565
16	561	572	589	618	653	664	631	619	592	578	550	537	538	546	551
17	553	557	579	610	649	666	659	639	607	577	555	549	552	556	554
18†	556	564	582	613	647	676	688	675	643	607	571	554	556	563	561
19	570	572	585	616	641	671	679	672	630	592	558	534	538	546	549
20	563	569	571	605	633	657	677	673	633	621	586	566	559	563	561
21	556	557	571	607	643	663	669	654	626	595	571	558	551	558	558
22	558	559	571	595	618	630	639	646	639	621	595	571	559	561	560
23†	571	570	571	587	611	641	660	677	662	632	603	579	567	564	566
24†	572	576	583	603	623	628	642	647	637	620	599	580	575	575	576
25†	575	580	592	622	653	669	670	654	625	602	585	578	561	582	581
26	584	586	597	615	644	666	679	680	665	643	622	603	595	588	583
27	577	585	591	612	647	689	661	615	582	550	544	554	559	567	560
28	557	561	569	591	622	545	643	631	617	592	568	553	542	541	546
29	559	567	578	589	592	594	596	600	592	585	579	569	558	558	560
30	560	570	579	594	611	629	639	630	612	586	564	559	566	570	566
31††	585	596	610	626	645	662	659	618	572	563	536	502	476	458	467
Mean	561	566	579	605	631	648	648	636	613	589	569	560	557	556	555
Mean†	566	570	584	610	637	655	663	656	634	608	586	573	571	572	571
Mean††	572	576	587	615	640	650	655	637	608	588	567	550	535	527	523

† Five International quiet days
 †† Five International disturbed days
 △ Loss of record, day omitted for mean

TABLE 15
 Hourly values of Horizontal Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

May
 39,000 γ plus tabular quantities

Hours G M T										Maximum		Minimum		Range	Date		
15	16	17	18	19	20	21	22	23	Mean	Time	Mag	Time	Mag				
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M	γ	H	M	γ	γ	
555	552	550	550	553	556	564	560	560	574	05	13	639	18	05	549	90	1
551	551	554	554	549	546	545	546	557	555	03	50	620	21	14	543	77	2
556	557	558	555	555	561	562	561	556	564	05	13	622	09	32	522	100	3
571	570	569	569	569	568	566	568	567	587	04	52	668	00	01	554	114	4
583	580	582	588	594	599	600	591	588	602	05	10	702	10	10	545	157	5
458	446	458	467	477	493	493	503	522	566	05	21	720	16	20	441	279	6||
539	539	538	539	540	540	542	541	536	553	05	45	623	00	01	516	107	7
553	552	546	546	543	543	543	545	554	569	05	17	649	00	01	536	113	8
561	562	562	561	559	561	563	564	563	574	06	00	638	00	20	547	91	9
558	551	551	553	557	558	558	558	558	578	06	14	650	15	50	548	102	10
567	555	541	526	523	533	540	549	556	580	06	07	673	18	41	520	153	11
559	560	561	562	563	566	566	566	565	576	05	22	643	00	10	555	88	12
555	558	563	562	563	561	555	566	565	580	05	45	644	12	25	548	96	13||
553	556	557	557	554	552	555	550	550	563	05	36	641	11	40	539	102	14||
554	553	549	551	556	554	558	560	560	580	05	58	669	17	38	542	127	15||
549	552	554	556	554	553	557	555	553	574	04	26	673	11	30	534	139	16
552	555	555	557	558	562	563	560	559	579	04	52	674	11	15	549	125	17
556	556	558	561	565	569	572	572	571	589	05	48	693	00	01	552	141	18||
550	550	554	560	563	563	564	566	565	582	05	25	687	11	15	533	154	19
557	549	554	557	559	561	562	562	559	587	06	28	680	15	20	547	133	20
561	562	563	563	563	565	565	564	562	584	05	45	669	12	00	553	116	21
560	563	566	568	569	571	572	572	572	585	07	20	649	00	20	557	92	22
567	569	569	569	571	570	570	571	570	591	07	08	682	13	00	563	119	23||
575	572	574	575	576	577	576	577	575	592	06	25	650	00	01	572	78	24||
581	580	581	580	580	579	580	583	584	599	04	38	673	00	01	575	98	25||
583	583	583	581	583	584	586	582	576	608	06	35	684	22	56	573	111	26
552	544	546	544	546	545	543	556	561	576	04	50	693	09	35	539	154	27
541	540	536	540	545	545	550	559	558	570	05	20	652	16	35	534	118	28
559	558	561	562	562	561	560	556	555	571	06	46	605	22	30	554	51	29
563	563	565	566	569	571	572	572	576	581	05	55	641	10	35	557	84	30
492	497	508	520	516	518	521	535	539	551	05	40	674	13	30	451	223	31||
554	553	554	555	556	558	559	560	561	578						120		Mean
570	569	570	571	572	573	573	574	573									Mean||
522	522	527	531	533	536	536	543	547									Mean|||

† Five International quiet days
 || Five International disturbed days
 Δ Loss of record, day omitted for means

TABLE 16
 Hourly values of Horizontal Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 39,000 γ plus tabular quantities

Date	Hours G M T														
	00	01*	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	535	547	566	582	604	609	586	573	547	530	520	518	539	545	542
2	541	548	562	592	615	623	618	608	588	560	541	536	544	553	552
3	550	562	577	599	626	639	641	629	609	589	564	553	553	557	561
4	555	552	557	577	605	637	659	657	632	591	545	516	514	529	530
5	553	551	560	580	607	628	632	629	607	584	559	546	549	550	550
6	552	549	550	563	594	613	616	604	588	580	563	550	543	537	540
7	563	573	581	587	608	637	676	659	621	602	578	556	542	543	552
8†	556	559	566	583	606	632	641	649	641	617	595	574	563	563	564
9††	572	580	585	586	616	639	637	632	619	585	568	561	563	562	560
10††	549	549	554	574	602	625	627	629	597	567	526	517	524	531	544
11	560	563	570	578	592	590	599	601	592	581	576	571	567	561	558
12	559	563	567	576	588	606	616	609	581	548	535	539	550	560	560
13	566	575	585	598	616	630	632	622	602	590	576	565	560	566	566
14	568	569	573	589	614	637	638	622	585	550	545	560	571	570	562
15	563	571	569	589	594	615	622	631	621	606	582	565	558	558	558
16	562	563	572	592	602	614	624	624	607	586	567	557	559	563	563
17†	558	561	569	590	617	638	641	633	618	601	580	568	567	566	565
18†	565	570	582	593	614	634	644	640	626	615	596	579	574	571	571
19†	577	582	590	608	625	633	624	617	602	596	591	584	577	570	568
20†	579	590	600	612	624	629	633	634	621	604	590	581	575	574	574
21	579	582	583	610	634	649	656	658	649	636	619	600	583	583	582
22	563	561	568	581	613	627	619	618	624	613	590	573	566	562	562
23††	562	560	571	592	612	624	608	617	607	582	581	568	562	562	565
24	545	553	559	584	610	637	653	623	598	569	549	546	556	562	563
25	562	564	572	593	618	630	624	607	591	570	555	552	554	561	562
26	559	564	575	591	607	618	618	613	600	595	584	582	579	576	573
27††	568	573	583	596	609	613	604	601	572	548	531	506	496	490	503
28††	550	554	563	577	589	609	606	590	587	549	532	537	547	551	541
29	559	566	582	593	611	621	613	605	595	579	575	561	546	541	544
30	562	569	572	584	607	615	585	577	571	552	548	551	537	552	549
Mean	560	564	572	588	609	625	626	620	603	582	565	556	555	556	556
Mean†	567	572	581	597	617	633	637	635	622	607	590	577	571	569	568
Mean††	560	563	571	585	606	622	616	614	596	566	548	538	538	539	543

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

TABLE 16
 Hourly values of Horizontal Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 June 39,000 γ plus tabular quantities

15	16	17	18	19	20	21	22	23	Mean	Maximum		Minimum		Range	Date
										Time	Mag	Time	Mag		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M	γ	γ	
544	545	545	547	547	554	551	549	545	553	04 52	616	10 46	510	106	1
549	549	548	545	545	547	545	549	549	563	04 32	627	10 55	535	92	2
559	561	557	559	562	560	558	560	560	577	05 34	644	00 01	550	94	3
529	533	538	544	548	551	555	549	558	565	06 42	667	11 35	509	158	4
549	549	549	549	562	555	554	552	546	569	05 28	639	11 13	543	96	5
546	548	549	551	556	556	558	563	562	564	05 52	621	13 14	536	85	6
551	548	549	552	555	554	553	554	555	577	06 25	697	12 25	539	58	7
564	568	570	574	574	576	577	578	577	586	07 00	664	00 01	556	108	8†
555	559	558	557	549	557	556	557	553	578	05 15	652	19 07	543	109	9††
549	555	557	557	560	559	558	558	558	564	06 34	651	10 37	512	139	10††
559	559	560	562	562	564	564	563	558	571	07 14	605	13 55	555	50	11
564	564	566	566	565	563	562	562	564	568	06 16	621	10 05	520	101	12
564	566	567	566	567	567	567	569	568	581	05 25	624	11 45	560	64	13
563	567	567	566	568	566	564	557	555	576	06 00	644	09 40	541	103	14
559	551	543	549	559	564	564	563	562	576	06 55	638	16 57	542	96	15
562	560	561	560	562	562	563	562	559	575	06 21	629	12 20	553	76	16
567	568	568	569	569	572	572	572	570	583	05 15	644	00 17	558	86	17†
573	575	577	577	578	578	578	577	576	590	06 40	647	00 10	565	82	18†
568	568	566	566	569	572	575	577	576	587	04 45	640	16 52	565	75	19†
573	572	575	577	578	579	579	580	580	592	06 42	640	16 13	572	68	20†
572	558	567	567	560	568	568	569	568	596	06 45	662	19 05	555	107	21
562	562	562	562	568	570	567	567	568	580	04 55	635	00 25	556	79	22
565	558	545	541	552	561	554	552	548	573	05 18	633	18 15	541	92	23††
563	559	559	561	565	561	560	561	560	573	06 00	659	00 01	545	114	24
562	565	565	562	559	565	564	564	563	574	05 30	638	10 40	551	87	25
568	565	570	566	563	563	558	558	563	579	07 16	621	22 16	555	66	26
528	535	539	535	539	544	548	547	548	552	04 11	623	13 00	489	134	27††
545	546	550	551	556	558	554	554	561	561	05 23	626	09 25	517	109	28††
550	547	548	550	551	555	561	561	559	570	04 49	634	13 02	536	98	29
552	547	557	550	552	554	555	554	554	564	05 10	620	16 12	544	76	30
557	557	558	558	560	562	561	561	561	574					94	Mean†
569	570	571	573	574	575	576	577	576							Mean†
548	551	550	548	551	556	554	554	554							Mean††

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

TABLE 17
 Hourly values of Vertical Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2,000 γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	216	215	215	215	211	207	204	207	204	192	192	203	209	215	215
2	216	206	219	226	225	208	193	186	180	184	190	201	205	213	214
3	215	209	208	213	205	204	202	202	196	190	191	201	210	215	215
4†	215	214	214	216	215	208	205	202	194	193	193	203	208	216	216
5†	216	215	215	216	214	212	210	216	205	204	205	215	216	217	217
6	216	216	216	216	217	224	223	212	196	192	196	205	214	216	216
7	217	217	215	215	220	220	216	218	200	209	204	208	215	216	216
8	215	216	218	228	228	220	208	212	216	215	216	216	216	215	215
9	216	216	216	220	217	216	216	216	216	215	211	212	209	208	215
10††	216	216	221	226	199	221	227	227	233	229	207	171	171	179	190
11††	216	215	215	216	227	222	215	215	215	221	233	228	221	216	215
12	216	216	215	215	209	203	203	197	197	195	203	214	215	215	215
13	215	215	215	221	221	197	191	191	179	189	199	207	214	215	215
14	215	215	215	215	213	204	201	185	181	186	197	203	208	209	213
15	215	215	214	215	204	204	203	201	197	209	213	213	213	215	215
16††	215	210	205	211	210	207	204	201	191	191	191	192	201	209	207
17	213	211	209	209	197	199	203	202	193	187	191	203	208	215	215
18	215	211	214	215	205	191	181	189	199	213	215	208	205	213	213
19††	211	210	215	215	215	215	203	197	196	191	199	203	209	209	203
20	215	215	215	223	225	220	215	209	203	213	215	214	205	209	215
21	215	215	214	214	207	195	191	191	189	189	191	197	203	205	209
22†	215	215	215	216	215	215	214	213	211	215	215	215	210	214	215
23†	215	215	215	215	215	213	203	196	191	190	195	203	209	209	209
24†	216	215	220	227	226	215	215	215	215	215	216	216	215	215	215
25	215	215	215	215	215	215	208	204	203	195	192	203	203	204	209
26	215	215	211	217	213	202	193	191	187	192	203	204	203	204	210
27††	215	215	216	228	228	219	216	199	190	192	199	209	215	215	215
28	215	215	215	215	215	209	208	203	195	191	195	203	209	215	215
29	215	215	216	225	217	209	204	201	197	192	196	203	205	204	204
30	215	215	215	216	217	207	198	191	191	193	201	203	203	209	214
31	215	215	215	217	214	204	205	209	204	202	202	204	208	214	216
Mean	215	214	215	218	215	210	206	203	199	199	202	206	208	211	212
Mean†	215	215	216	218	217	213	209	208	203	203	205	210	212	214	214
Mean††	215	213	214	219	216	217	213	208	205	205	206	201	203	206	206

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

TABLE 17

Hourly values of Vertical Force, 1962

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

January										2,000 γ 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		
216	216	216	216	219	220	217	216	216	211	20	00	220	09	15	191	29	1	
217	217	217	216	217	220	217	216	215	210	03	30	228	08	27	180	48	2	
216	216	216	216	216	216	216	216	215	209	20	46	217	09	01	190	27	3	
216	216	216	217	216	216	216	216	216	211	18	00	217	09	31	192	25	4	
217	217	216	216	216	216	216	216	216	215	15	30	220	09	01	204	16	5	
216	216	216	216	216	216	217	217	217	213	05	30	228	09	29	191	37	6	
215	215	215	216	220	217	216	215	215	215	07	01	222	08	16	194	28	7	
212	223	216	217	218	218	217	217	217	217	03	30	228	05	46	205	23	8	
214	216	216	216	217	222	217	217	218	216	19	45	227	12	25	205	22	9	
204	202	215	223	231	234	217	217	216	212	19	31	251	11	43	160	91	10	
216	216	217	221	216	216	217	216	220	219	10	15	235	06	30	214	21	11	
215	215	215	215	215	215	215	215	215	211	01	21	217	08	51	192	25	12	
215	215	215	215	215	216	215	215	216	209	03	30	225	08	31	179	46	13	
207	203	203	213	209	215	215	215	215	206	02	37	216	07	41	179	37	14	
215	215	215	215	216	215	215	211	214	211	19	23	217	07	25	193	24	15	
214	213	213	215	215	209	210	214	211	207	17	24	216	08	24	190	26	16	
215	215	215	215	215	215	215	215	215	208	18	30	215	08	52	184	31	17	
214	211	211	213	214	214	213	215	214	209	16	31	216	06	21	180	36	18	
201	204	204	220	215	215	215	215	215	208	18	01	227	09	01	191	36	19	
215	215	215	215	215	215	215	215	215	214	03	16	227	08	01	203	24	20	
215	215	215	215	215	215	215	215	215	207	22	01	216	06	01	187	29	21	
215	215	215	215	215	215	215	215	215	214	03	01	221	07	15	209	12	22	
211	215	215	215	215	215	215	215	215	209	21	46	216	08	50	189	27	23	
215	215	215	215	215	215	215	215	215	216	03	01	227	15	30	214	13	24	
208	213	214	215	215	215	215	215	215	210	22	34	216	09	42	191	25	25	
204	207	213	215	214	215	215	215	215	207	03	01	220	08	01	185	35	26	
215	215	215	215	215	215	215	215	215	213	03	31	229	08	01	189	40	27	
215	214	215	215	215	215	215	215	215	210	20	15	216	09	01	191	25	28	
215	215	215	216	215	215	215	215	215	210	03	01	227	08	51	191	36	29	
214	215	216	216	215	215	215	216	215	209	03	51	219	07	45	190	29	30	
216	216	216	216	216	216	216	216	216	212	03	07	217	05	45	202	15	31	
213	214	214	216	216	216	215	215	215	211						30	Mean		
215	216	215	216	215	215	215	215	215								Mean†		
210	210	213	219	218	218	215	215	216								Mean††		

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

TABLE 18
 Hourly Values of Vertical Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2,000 γ plus tabular quantities

February	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	
	1†	216	216	216	217	217	217	225	229	219	211	205	205	210	217	217
	2	211	207	215	222	223	223	219	205	199	194	193	194	204	207	217
	3	213	211	207	208	206	205	202	190	182	187	196	206	208	218	212
	4††	217	214	211	216	218	218	218	218	218	218	230	214	206	186	188
	5	224	219	214	206	207	208	208	219	219	213	208	211	213	219	213
	6	219	219	219	219	219	217	217	223	229	230	224	219	219	219	219
	7††	223	219	219	218	210	204	197	197	197	195	204	208	209	212	219
	8†	219	213	214	222	222	222	220	214	209	207	211	210	210	210	214
	9	217	215	211	210	204	197	196	186	184	185	187	195	203	210	214
	10†	219	216	214	218	218	222	222	220	210	204	202	200	202	210	213
	11	218	214	211	211	210	216	223	228	223	217	214	212	209	210	212
	12††	210	211	210	211	211	212	212	211	211	209	203	209	211	212	215
	13	216	213	213	213	214	215	232	236	234	220	211	202	210	222	225
	14	223	218	213	219	222	219	218	213	212	212	208	212	213	218	224
	15	218	216	214	219	223	220	217	215	209	197	195	200	207	218	220
	16††	224	224	229	Δ	Δ	Δ	227	220	215	202	186	173	185	209	210
	17	236	230	227	228	225	217	217	227	227	216	216	216	225	227	229
	18	228	227	231	236	236	230	229	224	217	215	215	218	226	228	229
	19†	229	228	229	231	234	229	222	217	216	213	215	216	218	227	229
	20	229	224	227	229	242	242	240	231	218	217	218	217	219	228	230
	21	230	228	230	237	238	238	231	232	236	231	222	220	219	228	230
	22	231	231	232	243	241	235	231	230	230	226	218	217	210	224	230
	23	232	229	229	238	238	236	238	241	232	224	217	216	219	225	223
	24	231	230	228	222	222	219	218	218	217	211	210	213	218	228	228
	25	231	231	230	232	236	235	230	224	220	226	223	222	223	222	224
	26††	231	230	230	229	224	220	217	214	216	219	225	224	230	238	231
	27	231	231	229	229	229	228	223	223	220	219	223	225	217	214	219
	28†	230	230	224	228	228	220	218	218	218	219	222	220	222	230	219
	Mean	223	221	220	223	223	221	220	218	216	212	212	212	214	219	220
	Mean†	223	221	219	223	224	222	221	220	214	211	211	210	212	219	220
	Mean††	220	218	218	218	216	214	211	210	210	210	216	214	214	212	211

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

TABLE 18
 Hourly value of Vertical Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

February 2,000 γ plus tabular quantities

Hours G M T										Maximum		Minimum		Range		Date	
15	16	17	18	19	20	21	22	23	Mean	Time	Mag	Time	Mag				
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M	H	M	γ	γ		
217	217	217	217	217	217	217	217	212	216	07	01	229	10	30	205	24	1†
215	216	217	217	217	216	216	216	216	211	04	30	227	10	01	193	34	2
218	216	218	218	218	218	218	218	217	209	21	01	219	08	00	182	37	3
186	194	200	224	222	222	223	223	223	213	09	58	231	13	30	177	54	4††
219	219	220	221	219	219	219	219	219	216	23	50	231	03	21	195	36	5
219	219	219	219	221	220	223	221	220	220	09	01	230	05	37	209	21	6
216	212	214	221	220	220	220	220	220	212	17	53	226	09	01	194	32	7†
215	215	217	217	221	221	221	221	221	216	03	35	223	08	55	205	18	8†
213	215	214	219	220	221	220	220	220	207	20	01	221	07	50	183	38	9
216	218	215	217	220	221	221	221	220	215	06	01	223	11	01	200	23	10†
216	216	220	216	214	212	210	210	210	215	06	24	230	12	10	208	22	11
216	219	222	217	223	223	217	219	222	214	18	45	229	10	33	201	28	12††
224	218	223	220	224	223	223	222	222	220	06	57	237	11	18	201	36	13
222	224	224	224	224	220	231	223	217	219	21	01	236	09	45	206	30	14
225	226	223	230	217	224	225	225	224	217	18	25	235	09	30	193	42	15
202	208	226	227	232	236	227	228	228	Δ	Δ	34	Δ	06	01	Δ	Δ	16†
228	231	232	228	232	228	227	227	228	226	18	34	237	06	01	216	21	17
229	229	228	228	232	228	228	229	229	227	03	28	239	09	30	215	24	18
229	230	230	230	230	230	230	230	229	226	03	31	236	08	51	212	24	19†
231	231	231	232	235	232	231	231	232	229	05	15	243	10	34	216	27	20
229	234	230	231	232	232	235	234	235	231	05	01	241	12	31	218	23	21
222	228	235	236	235	236	236	236	236	230	03	21	244	12	30	206	38	22
223	230	230	231	232	232	232	234	234	230	07	01	241	10	31	212	29	23
226	230	232	236	231	236	236	232	232	225	20	21	241	08	45	208	33	24
230	230	231	236	232	232	234	231	230	229	04	52	238	08	25	219	19	25
235	222	220	216	212	219	228	231	231	225	12	34	242	16	03	206	36	26††
230	232	230	235	231	231	232	236	232	227	17	48	241	12	35	211	30	27
230	230	230	230	230	230	230	230	230	226	00	30	231	07	31	217	14	28†
221	222	223	225	224	225	225	225	224	220							29	Mean
221	222	222	222	224	224	224	224	222								Mean†	
213	212	214	220	219	221	222	223	224								Mean††	

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

TABLE 19
 Hourly values of Vertical Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2,000 γ plus tabular quantities

March

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	230	228	225	224	226	216	205	199	195*	204	211	218	223	223	228
2	230	230	226	228	223	212	206	205	205	206	213	219	228	230	229
3	230	230	224	219	230	218	211	206	207	213	219	224	226	229	220
4	230	229	223	225	230	222	218	214	218	217	217	217	219	228	230
5††	230	230	228	223	224	218	207	204	200	199	207	218	224	218	212
6††	234	232	231	228	231	232	229	217	208	210	206	213	212	223	220
7	231	231	229	229	223	218	210	205	202	206	212	218	219	220	225
8†	228	226	232	237	236	228	217	207	205	212	218	222	225	229	229
9†	230	230	231	240	247	244	228	217	212	214	218	219	224	229	229
10	231	229	224	226	219	211	204	196	199	205	205	206	216	218	219
11	231	230	230	232	231	230	226	216	210	210	207	210	219	225	225
12††	229	225	223	226	226	226	218	217	220	206	208	207	211	218	219
13	234	232	230	232	230	220	218	213	211	205	210	212	218	224	224
14	224	225	228	224	223	219	212	200	196	202	212	220	225	224	226
15	232	231	225	223	211	204	198	197	193	200	211	217	218	217	223
16†	223	224	223	223	223	212	201	193	189	189	198	205	211	217	217
17	Δ	Δ	Δ	223	213	203	199	187	188	189	199	201	209	211	211
18	216	215	221	218	215	210	199	193	187	197	199	207	207	210	213
19††	224	222	223	217	212	199	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
20	Δ	Δ	Δ	Δ	228	222	210	199	198	203	212	215	216	221	218
21††	227	223	226	222	222	211	200	190	187	200	215	222	223	224	227
22	223	222	223	223	218	210	203	198	200	209	210	220	220	218	220
23	222	222	222	222	224	218	210	202	198	204	210	211	220	217	222
24	222	222	221	221	235	233	221	209	209	207	214	216	215	221	221
25	231	227	222	223	216	214	210	207	203	209	207	209	208	213	221
26	222	221	221	222	222	214	208	197	197	195	196	199	209	219	220
27†	222	221	221	223	231	220	202	187	185	185	187	197	207	213	215
28	222	223	220	221	233	226	216	208	197	199	204	202	207	214	219
29	222	225	229	232	232	234	228	219	209	208	210	213	210	212	219
30†	222	220	220	225	230	224	209	197	197	196	197	207	213	215	219
31	220	222	231	231	233	232	221	208	196	197	204	209	219	220	220
Mean	227	226	225	226	227	221	212	204	201	204	208	213	217	220	222
Mean†	225	224	225	230	233	226	211	200	198	199	204	210	216	221	222
Mean††	230	228	227	225	226	222	214	207	204	204	209	215	218	221	220

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

TABLE 19
 Hourly values of Vertical Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2,000 $\gamma\gamma$ plus tabular quantities

March										Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23	Mean	Time	Mag	Time	Mag		
$\gamma\gamma$	$\gamma\gamma$	$\gamma\gamma$	$\gamma\gamma$	$\gamma\gamma$	$\gamma\gamma$	$\gamma\gamma$	$\gamma\gamma$	$\gamma\gamma$	$\gamma\gamma$	H M	$\gamma\gamma$	H M	$\gamma\gamma$	$\gamma\gamma$	
228	230	231	230	230	230	231	230	230	224	19 46	232	07 45	194	38	1
230	230	230	230	231	230	230	230	230	223	18 43	234	06 48	204	30	2
219	218	219	222	230	230	230	229	228	222	19 31	231	07 01	206	25	3
230	230	230	230	230	230	230	230	230	225	18 15	231	11 31	211	20	4
231	228	230	226	230	234	235	231	234	222	19 55	236	08 01	196	40	5††
228	231	241	236	237	235	231	230	230	226	19 01	242	09 05	200	42	6†|
224	226	230	230	230	230	230	230	230	222	01 32	232	07 31	200	32	7
230	230	230	230	231	231	230	231	231	226	03 30	241	08 22	205	36	8†
229	229	230	230	230	230	230	230	231	228	04 10	248	08 20	210	38	9†
223	230	230	236	231	234	231	229	230	220	18 01	237	07 15	195	42	10
229	230	229	229	229	232	230	229	229	225	19 46	235	10 01	207	28	11
219	224	241	231	229	231	230	232	234	223	16 52	242	09 01	206	36	12††
224	223	229	229	231	231	229	229	228	224	00 05	235	09 00	205	30	13
229	232	231	234	235	235	232	234	234	223	18 45	236	08 30	194	42	14
223	223	223	224	223	223	223	229	225	217	00 01	232	07 45	192	40	15
218	225	225	223	223	225	229	225	224	215	20 55	230	08 15	187	43	16†
213	218	223	223	223	222	222	223	219	Δ	Δ	Δ	Δ	Δ	Δ	17
218	223	223	223	223	225	223	223	223	213	20 15	230	07 30	181	49	18
Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	19†|
222	224	223	222	222	233	232	228	229	Δ	Δ	Δ	Δ	Δ	Δ	20
223	221	222	223	233	224	222	222	234	218	23 05	235	07 30	185	50	21††
217	222	222	222	222	223	224	223	224	216	22 55	228	07 05	197	31	22
220	221	222	223	222	222	224	223	222	218	21 55	226	07 45	197	29	23
222	226	223	221	231	228	231	229	225	222	03 30	240	08 30	202	38	24
225	223	223	223	226	222	223	225	222	218	00 15	232	06 45	202	30	25
221	221	222	225	223	226	227	226	225	216	20 30	228	08 45	193	35	26
220	221	225	221	221	221	221	221	221	213	03 55	232	07 15	184	48	27†
221	221	221	223	228	226	221	227	226	218	03 45	234	08 05	196	38	28
220	221	221	221	221	221	225	222	222	221	04 45	235	08 30	206	29	29
219	218	218	220	220	220	220	220	221	215	03 45	231	08 45	195	36	30†
220	220	222	221	222	225	226	225	221	219	0330	234	0755	194	40	
223	225	227	226	228	228	227	227	227	220					36	Mean
223	225	226	225	225	225	226	225	226							Mean††
225	226	234	229	232	231	230	229	233							Mean†|

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

TABLE 20
 Hourly values of Vertical Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 April
 2,000 γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	200	203	200	199	193	185	175	165	172	174	187	187	188	189	196
2	203	205	210	204	210	203	192	184	184	189	196	197	195	197	196
3	207	205	203	200	193	187	184	177	184	181	187	187	192	197	198
4	205	203	199	196	198	199	196	197	156	151	192	200	198	200	204
5	206	206	207	205	205	202	196	192	195	194	192	195	197	197	197
6†	202	205	204	199	197	198	191	177	165	176	180	192	197	199	196
7††	198	206	202	198	188	186	174	174	173	173	195	207	197	197	206
8††	207	209	203	197	195	186	176	177	176	184	187	197	196	198	197
9	209	209	203	197	196	190	186	185	193	198	197	199	197	198	197
10†	208	209	209	202	202	198	196	195	196	190	185	194	196	203	205
11	206	206	201	199	197	198	195	190	196	197	198	204	206	208	210
12	206	205	204	203	204	197	194	187	190	196	202	204	200	205	199
13†	201	204	206	206	200	196	183	184	188	158	207	205	159	198	199
14†	205	207	206	204	198	189	176	175	175	181	188	187	193	196	198
15	204	207	208	206	204	210	204	199	200	200	199	205	199	203	208
16	203	213	216	213	209	205	193	188	188	188	192	198	199	199	200
17	209	208	202	205	192	188	178	182	185	190	197	198	197	196	198
18	207	206	200	199	198	197	186	189	193	198	209	211	208	207	199
19	208	207	199	195	190	185	176	177	185	191	200	199	200	200	200
20	212	207	202	194	197	184	177	179	184	190	194	200	198	199	199
21	212	210	212	201	200	187	183	183	190	201	213	214	210	203	201
22††	215	214	202	202	194	178	168	176	178	185	195	196	200	202	201
23	211	213	211	203	196	189	180	181	191	195	202	208	207	207	203
24†	205	203	209	202	201	191	179	181	184	193	201	203	203	202	202
25	210	212	214	201	190	179	177	178	181	191	199	190	202	204	204
26	213	213	214	206	201	190	176	179	180	191	201	200	196	201	203
27	213	213	213	207	213	209	207	201	200	195	197	201	206	203	202
28	210	213	213	212	200	205	199	200	199	201	209	208	207	204	205
29†	208	207	201	199	197	185	171	183	196	194	200	197	198	199	200
30†	209	211	211	200	195	197	198	196	197	198	199	204	207	205	205
Mean	207	208	206	202	198	193	182	184	187	191	197	199	200	201	201
Mean†	206	206	207	202	198	192	181	184	188	194	199	199	200	200	201
Mean††	206	209	204	200	195	189	181	180	178	182	188	197	197	200	200

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

TABLE 20
 Hourly values of Vertical Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2,000 γ plus tabular quantities

April

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	
199	204	200	207	203	201	207	204	206	193	20 55	208 06 45	163	45		1	
198	204	205	207	205	208	199	200	208	200	03 55	211 07 05	182	29		2	
197	198	199	200	203	205	207	206	200	196	21 05	208 06 45	165	43		3	
203	205	203	202	207	207	206	205	204	201	19 05	209 09 45	189	20		4	
197	198	204	206	207	206	206	207	206	201	19 30	209 06 45	191	18		5	
204	206	207	206	209	203	202	209	203	197	21 30	218 07 45	162	56		6†	
215	209	206	209	210	214	209	209	207	198	15 05	222 06 05	165	57		7††	
198	211	213	199	205	206	211	210	210	198	16 15	230 07 15	175	55		8††	
204	206	208	208	208	206	208	208	209	201	22 55	210 06 10	181	27		9	
210	206	209	210	208	206	209	208	209	203	18 15	212 09 55	181	29		10††	
206	202	201	206	208	205	206	208	206	202	14 15	212 06 55	189	23		11	
203	207	205	206	205	204	206	206	204	202	15 45	209 07 05	186	23		12	
202	200	202	204	200	199	199	200	204	199	09 55	209 06 30	182	27		13†	
199	200	200	204	205	207	205	204	201	196	01 15	209 06 30	174	35		14†	
207	199	199	200	208	207	208	208	207	204	04 45	211 06 30	198	13		15	
200	202	207	211	211	208	209	209	209	203	17 45	212 07 15	186	26		16	
200	204	206	207	208	209	208	204	205	199	20 15	211 06 05	177	34		17	
207	209	208	209	211	211	209	209	209	204	20 15	212 06 15	185	27		18	
201	210	212	212	208	209	212	212	212	200	17 00	212 05 55	175	37		19	
201	203	201	208	209	203	203	208	205	194	18 45	210 05 55	176	34		20	
201	204	195	196	192	204	210	203	209	201	10 30	215 05 45	180	35		21	
208	203	211	211	211	210	215	214	213	200	21 45	216 05 45	166	50		22††	
202	203	209	212	214	211	208	207	209	203	19 00	214 06 30	179	35		23	
207	209	208	203	212	211	211	209	208	202	19 05	214 06 05	178	36		24†	
202	201	210	214	213	210	211	213	211	201	18 05	215 06 30	176	39		25	
210	211	213	213	210	211	213	213	203	203	01 55	215 06 15	173	42		26	
209	210	212	209	210	222	212	209	209	208	20 15	223 08 45	194	29		27	
209	206	208	211	209	211	211	209	209	207	02 05	214 08 15	198	16		28	
209	208	208	211	211	211	209	208	208	201	18 30	212 06 15	170	42		29†	
205	204	201	207	210	210	208	208	207	204	19 15	211 07 05	195	16		30†	
203	205	206	207	208	208	208	208	207	201					33	Mean	
204	204	204	206	208	208	206	206	206							Mean†	
207	207	209	207	209	208	209	210	208							Mean††	

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

TABLE 21
 Hourly Values of Vertical Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2,000 γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	210	207	205	197	184	176	174	180	187	196	198	200	202	199	199
2	207	206	207	202	199	197	204	208	220	228	221	211	206	205	203
3	206	205	197	195	188	185	184	186	195	207	218	217	207	207	207
4†	209	213	208	196	185	171	163	166	172	183	188	194	201	203	204
5	203	206	204	196	183	170	161	168	176	194	205	207	206	203	203
6††	206	207	205	192	169	160	168	170	170	178	178	192	181	182	178
7	206	206	207	194	192	183	181	170	182	183	193	205	204	201	202
8	204	198	202	192	180	181	181	180	181	182	189	191	192	193	194
9	204	204	200	197	181	169	168	168	180	189	197	198	193	194	193
10	200	205	204	193	190	170	166	166	167	168	170	180	184	190	191
11	200	196	201	197	191	189	184	177	167	177	188	191	190	190	190
12	204	202	200	198	193	188	180	180	184	191	196	199	198	197	199
13†	203	203	202	197	190	184	180	179	179	183	190	196	197	199	200
14††	203	203	204	199	190	189	179	179	180	184	195	201	202	202	203
15††	211	211	211	199	187	179	178	179	178	189	190	194	201	199	201
16	206	210	203	194	178	166	145	156	167	178	188	189	198	201	201
17	206	212	210	195	197	187	179	178	186	189	189	190	197	197	197
18†	201	210	211	201	189	185	165	155	163	171	185	197	191	196	190
19	200	202	204	197	187	177	165	153	153	165	178	188	194	196	195
20	201	204	200	188	183	166	158	155	153	165	177	183	196	200	198
21	198	201	203	194	191	179	175	168	175	178	181	189	194	197	198
22	200	202	200	197	191	189	182	177	178	182	179	186	191	197	196
23†	200	200	202	198	200	197	188	178	177	182	187	189	198	197	198
24†	200	201	198	198	189	188	188	188	188	188	190	198	203	200	197
25†	202	202	209	198	197	186	178	179	180	188	191	198	200	198	198
26	208	210	209	204	202	197	188	179	178	183	183	189	190	192	196
27	209	201	206	196	195	188	187	201	212	211	210	212	204	199	199
28	210	210	211	189	187	176	167	179	188	194	189	189	190	199	202
29	211	211	210	199	198	198	190	195	192	199	201	199	201	201	201
30	211	209	202	202	199	189	179	179	180	179	183	187	198	198	198
31††	206	211	210	201	198	189	184	173	188	197	191	187	184	186	192
Mean	205	205	205	196	190	182	173	176	180	186	191	195	197	197	197
Mean†	202	205	206	198	192	185	176	173	176	182	188	195	199	199	197
Mean††	206	207	206	198	187	180	178	176	179	186	189	194	193	194	195

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

TABLE 21
 Hourly Values of Vertical Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2,000 γ plus tabular quantities

Hours G M T										Maximum		Minimum		Range		Date	
15	16	17	18	19	20	21	22	23	Mean		Time	Mag	Time	Mag			
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H M	γ	H M.	γ	γ	γ	
206	204	207	209	207	207	209	207	206	199	20	55	210	05	45	173	37	1
205	208	209	208	206	205	205	208	210	208	09	15	229	05	05	196	33	2
208	207	208	208	207	209	208	208	208	203	10	45	219	05	45	182	37	3
203	206	206	206	207	204	206	207	207	196	00	45	216	06	05	162	54	4†
203	202	203	205	206	206	206	202	203	197	11	15	208	06	15	160	48	5
179	183	199	201	202	213	205	206	213	189	19	30	214	05	15	159	55	6††
202	205	202	204	205	204	205	204	204	198	02	15	208	06	15	170	38	7
200	201	200	200	200	203	203	203	204	194	22	45	205	07	45	178	27	8
196	200	201	199	201	203	201	200	203	193	00	30	205	06	05	167	38	9
192	193	194	198	201	200	200	200	200	188	01	05	206	06	15	164	42	10
200	199	197	192	191	192	200	203	204	192	23	15	205	07	55	166	39	11
200	202	203	203	203	204	203	203	203	197	20	15	205	06	15	179	26	12
202	203	204	203	204	204	202	212	205	197	21	55	213	07	45	177	36	13††
206	212	211	210	210	206	210	211	211	200	16	15	213	06	45	178	35	14††
198	202	202	204	202	202	206	204	210	197	00	55	212	07	30	176	36	15††
202	202	203	204	202	203	203	202	203	192	00	45	211	05	55	144	67	16
198	200	201	200	201	200	201	200	201	196	01	15	213	06	30	177	36	17
197	198	200	198	200	201	200	200	200	192	01	30	212	06	55	153	59	18†
198	200	201	200	202	201	201	200	201	190	01	45	205	07	15	152	53	19
198	196	201	200	201	201	200	200	200	188	00	45	205	07	45	152	53	20
201	200	201	200	200	200	200	200	201	193	01	45	204	06	45	167	37	21
191	197	198	200	200	200	198	198	200	193	01	30	203	06	45	175	28	22
197	198	198	200	200	200	200	201	200	195	02	15	203	07	30	175	28	23†
198	198	200	200	200	200	200	201	200	196	11	45	204	07	45	187	17	24†
198	201	201	200	200	201	201	201	201	192	01	55	210	06	15	177	33	25†
201	201	202	201	202	202	202	201	202	197	00	45	211	07	45	176	35	26
201	198	204	201	203	203	201	211	211	203	08	30	213	05	45	181	32	27
199	202	202	202	202	203	202	207	210	196	01	05	212	05	45	166	46	28
201	202	203	202	203	201	202	202	203	201	00	15	212	06	15	189	23	29
196	201	199	201	202	202	206	202	202	196	15	05	213	06	55	172	41	30
212	206	211	212	209	206	206	211	210	199	17	30	213	06	55	173	40	31††
200	201	202	202	203	203	203	204	204	196						39		Mean
195	200	201	201	201	201	201	202	202									Mean†
199	201	205	206	205	206	206	209	210									Mean††

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

TABLE 22
 Hourly Values of Vertical Force, 1962
 (Averages for sixty minutes centered at the full hours of Greenwich Mean Time)
 June 2,000 γ plus tabular quantities

Date	Hours G M T														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	217	215	211	198	192	186	183	189	192	199	206	206	205	204	205
2	213	215	211	206	198	189	186	190	194	201	213	224	219	211	207
3	215	214	204	195	184	175	174	178	182	189	194	205	207	205	206
4	213	215	215	211	203	195	192	186	189	189	195	203	209	213	212
5	212	215	215	211	203	196	190	189	187	191	199	205	207	210	211
6	218	215	217	215	214	203	195	194	194	199	197	205	209	206	207
7	210	218	217	207	204	198	202	190	177	183	197	196	202	206	207
8†	212	215	218	219	212	206	200	190	189	187	195	199	206	206	207
9††	208	216	207	202	196	184	182	183	191	195	204	206	204	202	203
10††	214	219	223	218	213	204	195	195	200	207	206	216	213	208	208
11	216	218	216	211	212	211	212	208	207	213	213	206	205	205	207
12	214	216	219	220	220	228	227	215	220	215	219	230	218	212	211
13	218	214	208	204	197	191	190	195	202	206	205	205	207	207	206
14	213	212	210	205	202	192	195	195	210	229	230	221	211	203	203
15	212	210	206	204	202	199	199	203	206	206	204	202	203	205	207
16	214	212	208	206	206	206	204	202	202	205	208	212	207	206	206
17†	214	222	222	215	211	204	202	200	202	205	210	208	206	204	206
18†	213	212	208	204	200	190	188	191	196	202	202	203	206	208	210
19†	214	214	206	196	195	191	202	210	219	216	211	205	204	205	207
20†	213	213	205	207	208	210	204	204	203	205	202	202	205	208	210
21	213	219	216	216	207	202	195	187	184	189	191	191	196	204	208
22	213	214	214	212	212	211	207	213	208	201	200	205	211	212	212
23††	215	219	214	203	196	201	204	201	191	191	203	206	208	211	213
24	215	219	213	206	200	193	188	183	191	198	205	216	222	215	213
25	214	217	214	205	200	203	196	197	204	212	212	213	209	208	211
26	215	215	216	215	210	206	204	202	197	200	207	209	204	206	208
27††	220	220	221	222	214	207	206	197	191	192	197	199	204	207	213
28††	218	217	213	208	208	210	208	205	210	212	225	217	215	215	210
29	220	221	217	210	208	202	199	199	201	203	203	205	205	209	215
30	218	224	222	217	209	203	199	209	217	218	221	216	216	214	214
Mean	214	216	214	209	205	200	198	197	199	203	206	208	208	208	209
Mean†	213	215	212	208	205	200	199	199	202	203	204	203	205	206	208
Mean††	215	218	216	211	205	201	199	196	197	199	207	209	209	209	209

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

TABLE 22
 Hourly Values of Vertical Force, 1962
 (Averages for sixty minutes centred at the full hours of Greenwich Mean Time)
 2,000 γ plus tabular quantities

Year	Hours G. M. T.									Maximum		Minimum		Range		Date	
	15	16	17	18	19	20	21	22	23	Mean		Range					
										Time	Mag	Time	Mag				
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H	M	γ	H	M	γ	γ
207	209	209	211	209	213	210	209	209	204	00	40	218	06	35	180	38	1
207	209	211	211	212	212	210	214	212	207	10	30	226	06	50	184	42	2
207	209	207	210	213	212	210	213	212	201	00	30	217	05	55	173	44	3
209	212	217	218	217	217	215	213	217	207	01	30	219	07	00	184	35	4
207	211	212	214	215	211	210	212	211	206	02	00	217	08	00	184	33	5
209	207	207	212	212	212	209	212	211	207	00	10	219	06	45	191	28	6
207	207	208	208	210	208	208	208	208	204	01	00	218	07	45	173	45	7
207	208	210	213	213	211	213	211	211	207	03	00	219	08	45	185	34	8†
206	208	210	210	208	213	211	208	211	203	01	45	225	05	52	177	48	9††
214	218	216	215	218	215	215	213	215	212	01	45	225	07	00	190	35	10††
208	208	212	211	212	213	213	213	212	211	01	00	218	12	00	205	13	11
213	213	213	213	213	213	213	213	215	218	09	18	242	13	45	210	32	12
207	208	211	211	211	210	211	212	212	206	00	30	219	06	00	190	29	13
206	211	211	211	212	210	210	208	211	209	09	15	235	05	23	188	47	14
208	206	206	210	214	212	211	211	212	207	19	02	216	05	30	195	21	15
208	208	211	212	212	212	212	212	212	208	00	05	215	07	00	202	13	16
208	210	210	210	211	212	211	211	211	209	01	30	223	07	00	199	24	17†
210	211	211	211	212	211	210	212	212	206	00	01	213	05	50	188	25	18†
210	210	210	211	213	212	212	212	213	208	07	00	220	05	00	190	30	19†
212	212	213	213	213	213	213	213	213	209	00	01	214	10	00	202	12	20†
206	204	212	213	211	213	213	213	214	205	00	46	221	07	22	183	38	21
213	214	214	214	215	214	213	214	214	211	01	49	216	09	35	199	17	22
214	214	209	209	215	216	214	214	213	208	19	30	228	08	45	188	40	23††
213	212	214	215	216	214	214	214	214	208	12	05	223	06	48	180	43	24
212	214	214	213	212	214	214	214	214	210	01	00	217	06	35	191	26	25
210	213	215	213	214	214	213	214	216	210	01	52	219	08	00	197	22	26
222	222	221	220	220	218	220	217	217	212	03	07	224	08	00	191	33	27††
215	216	220	220	220	217	216	215	218	214	01	00	220	06	35	201	19	28††
216	215	217	219	221	219	221	217	214	212	01	00	221	05	46	198	23	29
216	215	218	216	217	217	216	217	217	215	01	00	224	05	35	196	28	30
210	210	212	213	214	213	213	213	213	209						31		Mean
209	210	211	212	212	212	212	212	212									Mean†
214	216	215	215	216	216	215	213	215									Mean††

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

TABLE 23
Principal Magnetic Storms
January-June 1962

Observatory	Greenwich day 1962	Storm Time		Sudden commencements			C-figure Degree of activity (iv)	Maximal activity on K-Scale 0 to 9			Ranges					
		G M T of beginning	G M T of ending (i)	Type (ii)	Amplitude (iii)			Greenwich Day	Greenwich 3 hour index	K-index	D	H	Z			
					D	H								Z		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
		hr	mt	d	h		°	°					°	°		
Astrophysical observatory, Kodai-kanal	January 10	02	13	11	09	SC	1	29	12	ms	10	—	—	8	289	81
	February 4	09	27	5	05	SC	<1	19	10	ms	4	—	—	4	233	58
	February 15	15	54	17	10		—	—	—	ms	16	—	—	6	268	75
	February 26	12	31	27	20	SC	1	24	14	m	26	—	—	4	193	52
	April 6	03	25	8	21		—	—	—	m	7	—	—	4	221	66
	April 20	23	53	22	23	SC	<1	20	12	m	21	—	—	4	228	54
	May 5	18	50	6	23		—	—	—	ms	6	—	—	6	306	58
	June 9	03	38	10	15		—	—	—	m	9	—	—	5	138	40

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

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

IONOSPHERIC DATA

Characteristic fo F₂
 Unit Mc
 Month January, 1962

TABLE 24
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	F	4.9UF	4.6	3.9	3.1	3.9	5.9	7.1	7.8	8.0	8.9
2	4.9UF	L	4.4F	3.7	2.5UF	1.8	3.3	6.4	8.0	8.4	7.8	8.2
3	5.5	5.3	5.2	3.3	2.4	2.0	3.1	6.2	7.4	8.0	7.6	8.1
4	5.1	5.6	5.5	4.5	3.1	2.9	3.4	5.3	6.6	7.4	7.4	7.2
5	4.3	4.1	3.9	3.3	2.5	1.3	2.6	5.2	6.7	7.0	7.0	7.5
6	6.6UF	5.4F	5.0	2.9	2.1	1.6	2.7	5.4	6.6	7.6US	7.6	8.0
7	6.8	6.0UF	4.8	3.8	2.3	1.9	2.8	5.3	6.7	7.4	7.6	7.5
8	4.9	4.3	4.2	3.3	2.6	2.2	3.0	6.0US	7.3	6.7	6.8	6.7
9	3.4	3.9	3.6	2.1	1.5	1.4	2.7	5.8	7.5	8.2	8.0	7.6
10	5.2	4.7	4.6	3.8	3.4	2.6	3.2	6.0	7.4	7.6	6.5	7.8
11	3.3	2.7	2.0	1.8	1.8	1.7	2.9	6.1	7.7	8.1	8.0	7.5
12	F	F	2.7UF	F	F	A	2.8UF	5.6	6.4	6.5	6.4	6.6
13	3.8	3.7	3.5	3.4	3.1	1.8	2.7	5.9	7.0	7.3	6.6	6.2
14	5.0	4.7	4.2	3.6	2.6	2.1	2.8	5.8	7.0	7.4	6.5	6.2
15	5.0	4.4	3.4	2.6	2.3	2.2UF	3.2	6.6	7.1	8.2	8.2	7.9
16	4.6	4.8	4.4	3.4	2.3	1.9	3.0	6.1	7.8	8.6	C	7.1
17	4.2	4.0	3.0	2.4	1.8	C	C	6.1	7.6	8.1	7.5	7.0
18	7.0F	7.0	6.8	3.9	2.3	1.4	2.4	5.3F	6.2	6.6	6.1	6.8
19	F	F	F	F	2.7	1.5	2.6	5.8	7.2	7.8	7.2	7.2
20	6.0	4.6	3.7	2.8	1.7	E	2.6	5.4	6.6	7.0	7.6	7.9
21	F	7.3	6.2	F	F	E	2.6	6.2	7.9	7.0	6.3	6.4
22	4.4	3.8	3.8	2.9	2.2	1.5	2.8	6.2	7.6	7.1	6.8	7.4
23	6.0	5.1	4.3	2.7	1.8	E	2.7	6.1	7.7	7.4	6.6	C
24	5.7	5.0	3.8	2.6	2.0	E	2.7	6.0	8.0	7.7	6.8	7.0
25	4.9	4.6	4.3	3.6	2.4	1.8	2.6	6.0	7.6	8.0	6.8	7.1
26	5.1	4.3	4.0	3.4V	F	2.4	3.0	5.9	7.6	8.2	8.3	7.0
27	5.4	4.7	4.4	4.2	3.2	2.3	3.0	6.2	7.5	8.6	9.0	8.8
28	5.5	4.9	3.4	2.5	2.4	2.0	3.2	6.4	8.2	9.6	9.1	7.8
29	5.1F	F	4.0	3.7F	3.3F	3.3	3.3	6.2	7.4	C	C	C
30	6.1	4.6	3.9	4.3	3.5	2.3	3.0	6.0	8.1	8.2	7.9	7.6
31	7.1	6.6	5.7	4.3	3.5	2.9	3.0	6.3	8.1	8.4	C	C
Count	27	26	30	28	28	29	30	31	31	30	28	28
Median	5.1	4.7	4.2	3.4	2.4	2.0	2.8	6.0	7.4	7.8	7.4	7.4
Mean	5.2	4.8	4.3	3.3	2.5	2.1	2.9	5.9	7.3	7.7	7.4	7.4

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fo F₂
 Unit Mc
 Month January, 1962.

TABLE 24
 Ionospheric Data
 75°E Mean Time

Latitude, 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
88	92	89	82	73	71	70	66	55 _F	F	F	F	1
71	74	73	77	81	80	80	74	75	66 _{UF}	61	61	2
80	83	82	78	67	68	71	74	75	74	67	56	3
78	74	81	82	87	90	87	84	85	76	71	63	4
74	85	79	81	78	81	77	71	70	76	F	69 _{UF}	5
80	78	79	74	78	81	83	74	74	76 _{UF}	64	63	6
80	77	73	70	77	78	76	66	68	73 _{UF}	65	55	7
67	76	78	79	84	87	77	75	74	61 _{UF}	46	34	8
75	78	78	81	76	69	65	56	58	50 _{UF}	53 _F	F	9
94	88	75	74	70	66	71	76	84	69	60	49	10
80	82	87	87	89	90	84	82	76	65	48	42	11
66	64	70	71	70	70	69	72	69	56	47	40	12
65	62	67	71	78	83	75	73	72	54	48	51	13
65	62	63	66	69	70	69	61	64	53 _V	48 _F	50	14
80	75	81	91	95	90	91	86	75	71	54	43	15
69	75	76	78	80	78	72	66	74	71	61	46	16
74	80	80	78	81	78	68	62 _F	F	F	F	64 _#	17
70	76	82	92	90	86	78	82	74 _F	F	F	F	18
80	79	76	82	84	76	70	63	64	62	62	60	19
84	86	88	94	97	93	80	80	F	F	F	F	20
69	70	73	77	84	84	80	74	70	70	72	61	21
77	82	88	93	98	92	85	76	F	F	65 _{UF}	63	22
70	68	71	81	85	84	80	71	70	68	64	57	23
76	79	84	93	94	86	80	80	80	80	61	53	24
69	70	70	72	80	80	84	80	73	68	56	50	25
70	74	76	82	88	91	83	84	84	78	F	57	26
83	80	79	84	86	89	89	72	69	70 _F	68	68	27
74	76	74	78	82	82	78	68	67	64	F	F	28
78	78	78	77	79	78	76	72	66	67	64	59	29
81	85	89	100	105	100	98	92	96	86	77	76	30
C	80	80	C	72	71	67	55	F	F	F	F	31
30	31	31	30	31	31	31	31	27	25	23	25	Count
76	78	78	80	81	81	78	74	73	69	61	57	Median
76	77	78	81	82	81	78	73	73	68	60	55	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foF₂
 Unit : Mc.
 Month : January, 1962

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

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	4.8 ^{UF}	4.6 ^r	4.2	3.4	2.9	5.1 ^{us}	6.7	7.6	7.8	8.3	8.6
2	F	F	4.2	2.9	2.2	1.6	5.1	7.2	8.3	8.1	8.1	7.7
3	5.2	5.5	4.2	2.6	2.2	2.1	4.6	6.8	8.0	7.8	8.0	8.0
4	5.2	5.7	5.4	3.7	2.9	2.8	4.3	6.2	7.2	7.1	7.4	7.5
5	4.2	3.9	3.7	2.9	1.9	B	4.2	6.0	6.8	7.2	7.3	7.4
6	6.0 ^r	5.5 ^F	4.0	2.2	1.8	1.5	4.2	6.2	6.9	7.6 ^{us}	7.7	7.7
7	6.4 ^{UF}	F	4.1	2.9	2.2	1.8	4.3	6.3	7.2	7.3	7.5	7.3
8	4.8	4.3	3.8	2.8	2.4	2.2	4.5	6.8	7.6	6.9	6.9	6.5
9	3.7	4.2	2.7	1.8	1.5	1.4	4.4	6.4	8.3	7.9	7.8	7.6
10	4.8	4.9	4.0	3.6	2.8	2.4	4.6	6.8	7.9	6.0	7.0	8.8
11	2.7	2.6	1.7	1.9	1.7	1.5	4.8	7.4	C	7.9	7.7	7.6
12	F	F	F	2.0 ^{UF}	A	A	4.5	6.0	6.5	6.5	6.4	6.8
13	3.6	3.6	3.5	3.4	2.5	1.5	4.4	6.9	7.0	6.7	6.0	6.5
14	5.0	4.4	3.9	3.0	2.6	1.7	4.4	6.4	7.4	7.0	6.3	6.3
15	5.2	3.7	3.0	2.5	2.2	2.3 ^F	5.2	6.9	8.2	8.5	7.9	8.0
16	5.0	5.0	3.9	3.0	2.0	1.8	4.9	6.7	8.8	C	C	6.9
17	4.2	3.6	2.8	1.9	1.7	C	C	7.2	8.2	8.0	6.8	7.2
18	F	7.0	5.2	3.2	1.7	1.1	4.0	5.6	6.6	6.3	6.4	7.0
19	F	F	F	3.3 ^{UF}	2.1	1.4	4.3	6.6	7.8	7.6	7.2	7.6
20	5.6	4.4	3.3	2.2	1.2	E	4.2	6.4	6.9	7.4	7.8	8.2
21	F	6.6	4.3	3.1	1.7	E	4.3	7.0	7.5	6.8	6.4	6.6
22	4.1	3.8	3.5	2.5	2.0	1.4	4.8	7.0	7.6	7.2	7.0	7.6
23	5.7	4.9	3.4	2.3	1.4	E	4.6	7.1	8.0	6.9	6.5	C
24	5.4	4.2	3.1	2.3	1.5	E	4.6	7.1	8.0	6.7	7.0	7.5
25	4.6	4.3	4.0	2.9	2.0	1.6	4.6	6.9	8.2	7.8	6.8	7.0
26	4.6	4.3	3.7	F	2.6 ^F	1.9	4.9	7.4	8.0	8.4	8.1 ⁿ	7.0
27	5.1	4.6	4.4	3.6	2.6	1.9	4.8	6.9	8.3	8.8	8.8	8.4
28	5.1	4.3	3.2	2.5	2.0	1.9	5.0	7.3	9.0	9.2	8.6	7.7
29	5.0 ^r	F	3.8	3.5	3.3 ^F	3.0	5.2	6.8	C	C	C	C
30	5.3	4.6	4.0	3.9	2.8	1.9	4.8	7.1	8.1	8.0	7.7	7.8
31	6.9	6.4	4.9	3.9	3.1	2.7	5.0	7.1	8.5	C	C	C
Count	25	26	29	30	30	29	30	31	29	28	28	28
Median	5.0	4.4	3.9	2.9	2.2	1.9	4.6	6.8	7.9	7.4	7.4	7.6
Mean	4.9	4.7	3.8	2.9	2.2	1.9	4.6	6.7	7.7	7.5	7.3	7.5

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF₂
 Unit Mc
 Month January 1962

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

Latitude 10 2°N.
 Longitude 77 5°E

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

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

Characteristic foF1
 Unit Mc
 Month January, 1962

TABLE 25
 Ionospheric Data
 75°E Mean Time

Latitude 10 2°N
 Longitude 77 5°E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foF1
 Unit Mc
 Month January, 1962

TABLE 25
 Ionospheric Data
 75°E Mean Time

Latitude 10 2°N
 Longitude 77 5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	4 6	L	L	L	L							3
4 6	4 6	4 5	L	L	L							4
L	5 0L	L	L	L	L							5
4 5	L	L	L	L	A							6
L	L	L	L	L								7
L	L	L	L	L								8
4 4	4 4	L	L	L								9
4 4	4 3	4 4	L	L	L							10
4 4U1	L	L	L	L	L							11
4 4	L	4 4L	L	L	L							12
4 5	L	L	L	L	L							13
4 5	4 4	L	4 4U1	L	L							14
4 6UL	L	4 6UL	4 5U1	L	L							15
L	4 5	4 5	4 6	L	L	L	L					16
4 7	4 6	4 5	L	L	L							17
4 7	4 8	4 7	4 5	L	L							18
4 6	4 5	L	4 7	L	L							19
4 7	4 7	4 5	4 5	4 3	L							20
L	5 0	L	L	L	L	L						21
L	L	L	L	L	L							22
5 1	L	L	L	L	L	L						23
5 1L	L	L	L	L	L	L	L					24
L	L	L	L	L	L	L	L					25
L	L	L	L	L	L							26
4 7	4 8	4 9	L	L	L							27
4 8	4 8	L	L	L	L							28
4 8	4 8	L	L	L	L							29
L	L	L	L	L	L							30
C	L	L	C	L								31
18	15	9	6	1								Count
4 6	4 6	4 5	4 5									Median
4 6	4 7	4 6	4 5									Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foF1
 Unit Mc
 Month January, 1962

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

Latitude 10 2°N
 Longitude 77 5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	4.4	4.6	4.6	4.6
4								L	4.3	4.7	4.7	4.7
5								L	L	L	L	L
6								L	L	L	L	4.5
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	4.4L
10								L	L	4.3	4.3	4.5
11								L	C	L	L	L
12								L	L	4.4	4.4	4.4
13								L	L	L	4.5	4.5
14								L	L	4.4	4.5	4.5
15								L	4.2UL	4.4UL	4.6	4.5
16								L	L	C	C	4.5
17								C	L	4.6	L	4.7
18								L	L	4.6	4.8	4.9
19								L	L	4.5	4.7	4.6
20								L	L	4.7	4.6	4.9
21								L	L	L	4.8L	L
22								L	L	L	L	5.0L
23								L	L	L	L	C
24								L	L	L	L	5.2L
25								L	L	L	5.1L	5.1
26								L	L	L	4.7	4.8
27								L	L	4.5	4.7	4.7
28								L	L	L	4.8	4.7
29								L	L	C	4.7	4.8
30								L	L	C	C	C
31								L	L	C	C	C
Count									7	11	15	21
Median									4.3	4.6	4.6	4.7
Mean									4.4	4.6	4.6	4.7

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF1
Unit Mc.
Month January, 1962

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

Latitude 10 2°N
Longitude 77 5°E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo E
 Unit . Mc
 Month January, 1962

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

Sweep 1 0₁Mc to 25 0₁Mc in 27 seconds

Characteristic fo E
 Unit Mc
 Month January, 1962

TABLE 26
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A	21							1
A	A	A	A	A	21							2
A	A	A	A	A	21							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	30	A	B							11
A	A	A	A	A	A							12
A	A	A	A	28	20							13
A	A	A	A	A	21	A						14
A	A	34	A	A	A							15
A	A	A	A	A	A							16
A	A	A	A	A	A							17
A	A	32	28	28	A							18
A	A	A	A	A	A							19
A	A	33	31	27	A							20
A	A	A	A	27	24							21
A	35	34	31	27	A							22
A	A	A	A	A	A							23
A	A	34	31	28	22							24
A	A	A	A	A	A							25
A	A	A	33	A	21							26
A	A	A	A	A	A							27
A	A	A	A	A	A							28
B	B	A	A	A	A							29
A	A	34	32	28	A							30
C	A	A	C	A	A							31
	1	6	7	7	8	—						Count
		34	31	28	21	—						Median
		34	31	28	21	—						Mean

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

Characteristic fo E
Unit Mc
Month January, 1962

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

Latitude 10 2° N
Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo E
Unit Mc
Month January, 1962

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

Latitude 10 2° N
Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo Es
Unit Mc
Month January, 1962

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								7.4	8.4	9.4	10.4	9.6
2								8.0	9.2	9.4	10.6	10.6
3								5.8	7.8	9.8	10.7	10.6
4								6.8	9.0	11.0	10.6	10.8
5								5.6	9.0	9.8	11.1	10.6
6								7.0 ^{us}	10.0	13.6	14.8	13.4
7	2.2							5.8	8.6	8.8	10.0	10.6
8								5.0 ^{us}	7.8	10.0	9.0	9.8
9				3.1		4.6	2.0	4.0	4.7	8.2	9.2	11.0
10								2.5	7.8	8.8	9.2	8.8
11								2.5	7.2	10.0	10.0	9.4
12					2.2	8.6	6.0	4.8	8.4	9.6	9.8	10.8
13								4.6	7.6	9.2	9.0	9.0
14		3.8						G	7.0	8.8	10.0	10.2
15							3.6	7.2	3.4	7.8	9.2	9.0
16								4.8	3.4	9.8	C	12.0
17								6.6	8.6	10.0	10.8	11.5
18								8.0	9.8	9.6	12.0	11.8
19	3.7							G	6.7	9.6	9.4	11.8
20								6.8	10.0	10.8	10.8	11.4
21								6.2 ^{us}	8.7	9.8	9.4	10.8
22								5.4 ^{us}	8.4	9.2	11.0	11.2
23								G	7.6	10.4	10.8	C
24								G	7.7	9.1	10.6	12.0
25		2.9						G	6.8	9.0	10.8	10.4
26								G	G	8.8	11.0	10.4
27					6.8			2.6	4.1	7.8	9.8	10.4
28					4.4			G	4.2	10.7	10.6	11.2
29					3.8			G	G	C	C	C
30								5.6	8.5	9.7	11.2	11.5
31				3.2				4.6	7.6	9.8	C	C
Count	2	2		3	4	2	3	31	31	30	28	28
Median								4.8	7.8	9.6	10.6	10.7
Mean								5.5	7.5	9.6	10.4	10.7

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fo Es
 Unit Mc
 Month January, 1962

TABLE 27
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo Es
 Unit Mc
 Month January, 1962

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

Latitude 10 2" N
 Longitude 77 5' E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo Es
Unit Mc
Month January, 1962

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

Latitude 10 2° N
Longitude 77 5° E

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

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fb Es
 Unit Mc
 Month January, 1962

TABLE 28
 Ionospheric Data
 75°E Mean Time

Latitude 10 2' N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								2.2	2.8	3.2	3.4	3.6
2								2.3	2.8	3.4	3.4	3.4
3								2.2	2.8	3.2	3.4	3.6
4								2.3	2.8	3.2	3.4	3.4
5								2.0	2.7	3.1	3.4	3.4
6								2.2	2.6	5.0	5.0	3.8
7	1.4							2.2	2.7	3.1	3.3	3.4
8								2.1	2.7	3.1	3.3	3.4
9						1.2	1.4	2.2	2.8	3.1	3.3	3.4
10								2.2	2.7	3.0	3.2	3.4
11								1.9	2.6	3.2	3.1	3.1
12					1.2	A	1.7	2.2	2.7	3.1	3.3	3.5
13								1.9	2.6	3.0	3.2	3.4
14		1.7						G	2.7	3.1	3.4	3.4
15							1.3	2.5	2.8	3.2	3.4	3.4
16								2.4	2.9	3.1	C	3.6
17								2.4	2.8	3.3	3.5	3.6
18								2.2	2.9	3.3	3.4	3.6
19	1.7							G	2.8	3.1	3.4	3.6
20								2.2	2.8	3.1	3.4	3.6
21								2.2	2.7	3.0	3.5	3.6
22								2.2	2.7	3.1	3.3	3.6
23								G	2.7	3.2	3.4	C
24								G	2.8	3.2	3.5	3.6
25								G	2.7	3.2	3.4	3.6
26								G	G	3.2	3.4	3.8
27					2.2			2.2	2.9	3.4	3.5	3.7
28					2.4			G	2.8	3.2	3.4	3.6
29								G	G	C	C	C
30								2.3	2.9	3.3	3.6	3.7
31				1.3				2.2	2.8	3.2	C	C
Count	2	1		1	3	1	3	31	31	30	28	28
Median								2.2	2.8	3.2	3.4	3.6
Mean								2.2	2.8	3.2	3.4	3.5

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fb Es
 Unit Mc
 Month January 1962

TABLE 28
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fbEs
Unit . Mc
Month January 1962

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

Latitude . 10.2° N
Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fbEs
Unit Mc
Month January 1962

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

Latitude 10.2° N
Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.5	3.4	3.2	2.9	2.4								1
3.5	3.4	3.3	2.9	2.4	G							2
3.5	3.4	3.4	2.9	2.5		2.2	3.2	2.2				3
3.4	3.3	3.2	2.9	2.9	3.4	2.4	1.7	.				4
3.4	3.4	3.2	3.0	3.5	2.0	1.8						5
3.4	3.3	3.2	3.1	2.8	4.0		2.0	1.7				6
3.5	3.3	3.2	2.9	2.6								7
3.4	3.4	3.2	3.3									8
3.4	3.4	3.2	2.9	2.5	G							9
3.4	3.2	3.2	2.9	2.4				1.8				10
3.4	3.3	G	G	2.5		2.5		1.8	2.6	1.8	2.1	11
3.4	3.4	3.3	2.8	2.5	1.9	2.0	2.3	1.5				12
3.6	3.5	3.3	2.9	G								13
3.5	3.4	3.2	3.0	2.5	1.8	2.3						14
3.4	3.4	3.3	G	3.2	1.9	1.5						15
3.6	3.4	3.4	3.0	2.6	1.7							16
3.6	3.7	3.4	3.0	2.6	1.8							17
3.6	3.8	3.4	G	3.0							2.0	18
3.6	3.5	3.6	3.6	4.0	1.8		2.0	1.5				19
3.7	3.6	3.5	3.2	C	1.9				1.5	1.2		20
3.6	3.4	3.4	G	G								21
3.6	G	G	3.1	2.7				1.7				22
3.8	3.6	3.4	G	2.6	2.0		1.8	2.2				23
3.6	3.6	G	3.1	G	1.9			2.1			2.0	24
3.7	3.6	3.4	3.2	2.7	G							25
3.6	3.6	3.4	G	G	1.9			1.6	1.6			26
3.8	3.7	3.6	3.3	3.4				1.7				27
3.6	3.6	3.4	3.2	2.7	G							28
3.7	3.6	3.5	3.1	2.7	G	C						29
3.7	3.6	4.2	4.0	4.6	2.3							30
3.6	3.6	C	C	2.7	2.0							31
3.0	3.0	3.0	3.0	2.9	2.0	7	6	11	3	2	3	Count
3.6	3.4	3.3	2.9	2.6	1.8	2.2	2.0	1.7				Median
3.5	3.5	3.4	3.1	2.8	2.2	2.1	2.2	1.8				Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic . fmin
Unit : Mc
Month January 1962

TABLE 29
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	15	15	13	10	11	E	12	12	15	17	21	23
2	14	16	14	10	12	11	13	12	15	18	20	22
3	E	13	12	E	11	E	11	12	15	16	21	21
4	13	12	15	17	11	E	10	13	16	18	19	22
5	13	12	13	11	E	11	11	E	13	17	18	21
6	13	13	13	11	11	10	E	10	13	16	20	20
7	10	12	11	E	E	E	E	14	14	17	19	19
8	12	13	12	10	E	E	E	13	15	17	18	20
9	13	10	13	E	10	E	E	14	15	17	20	20
10	12	12	14	12	E	10	11	13	14	17	18	20
11	12	13	15	12	12	E	E	12	13	15	16	19
12	18	16	12	E	E	11	15	13	15	16	19	19
13	19	19	12	11	E	11	E	E	12	15	17	19
14	18	11	17	E	11	E	11	13	13	17	20	22
15	12	13	13	E	E	E	E	12	12	19	20	22
16	19	14	17	11	12	E	13	18	24	19	C	24
17	21	15	13	12	11	C	C	10	12	22	23	24
18	11	12	13	E	11	10	E	14	14	17	19	21
19	13	13	14	11	11	11	E	16	16	18	21	24
20	14	14	11	E	11	E	13	15	16	19	23	24
21	13	13	13	13	11	E	13	14	16	17	20	21
22	15	14	13	11	E	11	E	13	15	17	20	22
23	15	13	12	12	1.2	E	13	15	17	19	20	C
24	14	11	15	E	E	E	11	17	18	19	22	24
25	14	13	12	E	E	13	13	15	18	18	20	22
26	13	12	11	E	E	E	12	12	15	19	21	24
27	14	14	13	10	11	11	14	16	23	21	22	25
28	13	12	13	11	16	16	15	15	16	17	23	24
29	14	13	12	E	12	E	13	13	18	C	C	C
30	12	12	11	E	E	E	11	11	16	2.0	2.2	2.4
31	12	13	13	11	E	11	11	1.3	13	1.6	C	C
Count	31	31	31	31	31	30	30	31	31	30	28	28
Median	13	13	13	1.0	11	E	11	13	15	17	20	22
Mean	14	13	13	11	12	11	12	13	15	18	20	22

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fmin
Unit Mc
Month January 1962

TABLE 29
Ionospheric Data
75°E Mean Time

Latitude 102° N
Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fmin
Unit Mc
Month January, 1962

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

Latitude 10 2°N
Longitude 77 5°E

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

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fmin
 Unit Mc
 Month January, 1962

TABLE 29 (cont'd)
 Ionospheric Data
 75°E Mean Time

Latitude 10.2°N
 Longitude 77.5°E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic $h'F_2$
Unit Km
Month January, 1962

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									L	300	L	335
2								L	300	L	L	345
3								L	L	320	310	350
4								L	L	320	340	340
5							L	L	L	L	L	L
6								L	L	A	A	325
7								L	L	315	320	340
8								L	L	L _{lit}	L _{lit}	360
9								L	L	300	330	335
10								L	290	340	350	380
11									L	L	360	340
12								L	L	360	320 _L	360
13									L	L	L	420
14									L	L	360	420
15									290	320 _{UL}	340	L
16								L	L	320	C	360
17								L	L	L	350	330
18									350	315	390	330
19									L	315	340	460
20									L	L	350	360
21									L	L	330	L
22							L	L	L	L	L	L
23							L	L	L	L	L	C
24							L	L	L	350 _L	L	380
25							L	L	L	L	L	L
26									L	340	370	385
27								L	L	305	335	360
28									285	L	L	L
29								L	275	C	C	C
30									L	330	330	365
31								L	290	L	C	C
Count									7	16	16	22
Median									290	320	340	360
Mean									295	330	345	365

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

Characteristic	h'/F ₂		TABLE 30										Latitude
Unit	Km		Ionospheric Data										10 2° N
Month	January, 1962		75° E Mean Time										Longitude
	12	13	14	15	16	17	18	19	20	21	22	23	Date
L		335H	L	L	L								1
L		L	L	L	L								2
355		360	L	L	L	L							3
410		340	355	L	L								4
350		350L	L	L	L	L							5
340		350L	LH	L	L	A							6
335		360L	L	L	L								7
355		350	L	L									8
345		345	L	L	L								9
360		320	340	L	L	L							10
340		L	340	L	300	L							11
370		L	380	L	L								12
390		L	L	L	300	L							13
410		390	L	380 ^{out}	L	L							14
350		L	350	320	L	L							15
L		390	350	345	L	L	L						16
370		340	340	L	L	L							17
350		360	350	325	L								18
330		350	L	350	L								19
355		340	320	320	310	L							20
L		L	L	L	L	L	L						21
355		L	L	L	L	L							22
380		L	L	350	L	L							23
L		375	360	L	L	L	L						24
L		L	L	L	L	L	L						25
L		L	L	L	L	L							26
370		360	360	L	L	L							27
L		370	L	L	L	L							28
370		375	L	L	L	L							29
L		350	365	325	300	L							30
C		L	L	C	L								31
21	20	12	8	4	—	—							Count
355	350	350	335	—	—	—							Median
360	355	350	340	—	—	—							Mean

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

Characteristic $h'F_2$
 Unit · Km
 Month January, 1962

TABLE 30 (Cont'd)
 Ionospheric Data
 75°E Mean Time

Latitude · 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	300	310	L	340
2								L	L	320	340 _{IT}	365
3							L	L	310	320	330	370
4									310	320	345	390
5							L	L	L	L	L	L
6								L	L	A	A	320
7							L	L	320	315	315	360
8								L	L	L	355	350
9								L	295	L	345	355
10							L	L	335	330	320	340
11								L	C	L	L	L
12								L	L	340	390	360
13								L	L	L	380	400
14								L	L	350	390 _{UL}	430
15								L	290	300	340	330
16							L	L	L	C	C	370
17								L	320	L	315	390
18								L	L	410	380	380
19								L	L	330	400	420
20								L	L	350	340	360
21							L	L	L	L	L	390
22							L	L	L	L	L	340 _L
23							L	L	L	L	L	C
24							L	L	L	L	L	L
25							L	L	L	375 _L	L	375
26								L	310	L	400	380
27							L	L	300	330	320	380
28								L	300	L	345	370
29								L	C	C	C	C
30									L	L	L	365
31								L	280	C	C	C
Count									13	14	18	25
Median									310	330	345	370
Mean									305	335	350	370

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic $h' F_2$ TABLE 30 (Contd)
 Unit Km Ionospheric Data Latitude $10.2^\circ N$
 Month January, 1962 $75^\circ E$ Mean Time Longitude $77.5^\circ E$

	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
330	L	L	L	L	L								1
365	L	L	L	L	L								2
L	L	L	L	L	L								3
350	350	320	320	L	L	L							4
L	335	L	L	L	L	L							5
340	L	L	L	L	L	L							6
340	365	L	L	L	L	L							7
360	335	L	L	L	L	L							8
350	355L	L	L	L	L	L							9
350	360	370	L	L	L	L							10
L	350	320	305	L	L	L							11
340	L	350	L	L	L	L							12
400	390UL	380UL	310UL	L	L	L							13
390	380	400UL	L	L	L	L							14
370	370	L	300	L	L	L							15
380	360	L	L	L	L	L							16
360	360	L	L	L	L	L							17
360	340	370	310	L	L	L							18
355	380	360	340	L	L	L							19
330	340	350	L	L	L	L							20
L	380L	L	L	L	L	L							21
L	L	L	L	L	L	L							22
L	L	L	320L	L	L	L							23
L	370	340	315	L	L	L							24
L	L	L	L	L	L	L							25
400	L	L	L	L	L	L							26
360	320	L	325	L	L	L							27
L	L	L	L	L	L	L							28
405	390	L	L	L	L	L							29
360	L	350	320	L	L	L							30
365	L	C	C	L	L	L							31
22	19	11	10										Count
360	360	350	320										Median
355	360	350	315										Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'F
Unit Km
Month January, 1962

TABLE 31
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	260 _r	245	235	225	220	235	275	240	200 _H	205	190	200
2	215	240	235	215	235	240	270	230	220	215	200	180
3	230	235	210	215	260	270	280	245	220	200	200	200
4	235	240	240	220	240	250	270	230	200	195	200	185
5	230 _Q	220	210	220	220	270	275	205 _{IT}	200 _{IT}	200	205	195
6	250 _{UF}	230	200	215	240	250	270	235	230	A	A	200
7	220	210 _h	210	220	230	245	270	235	220	210	200	200
8	230	235	240	225	240	280	275	220	200 _{IT}	205 _{IT}	200	195
9	220	215	215	230	260	300	275	235	220	215	200	205
10	230	230	240	240	240	250	255	230	210	195	200	180
11	225	255	280	300	290 _L	260	280	250	220	220	200	190
12	260	240 _{UF}	240 _{UF}	230 _{UF}	F	A	280	220	210	210	210	210
13	230	240	230	230	230	230	250	230	210	200 _{IT}	200 _{IT}	200
14	250	230	240	240	230	230	260	230	200 _H	200 _{IT}	200	200
15	220	210	230	240	270	320 _{UF}	280	240	220	210	210	200
16	240	220	220	230	260	280	280	240	225	220	C	200
17	260	260	250	240	255	C	C	240	220	200	200	195
18	220	220	210	220	235	270	280	220	210	200	190	180
19	255	230	225	225	225	265	280	230	210	200	195	195
20	220	230	240	240	240	E	290	230	185	185	180	180
21	225 _F	220	210	220	220	E	280	230	195	180	180	180
22	225	230	230	230	230	230	260	230	210	195	180	180
23	225	230	215	215	230	E	275	220	215	200	200	C
24	220	220	220	220	230	E	260	220	215	200	190	180
25	230	240	235	220	220	230	270	230	200 _{IT}	180 _{IT}	190	200
26	220	230	210	210	230	220	230 _H	240	205	185 _{IT}	180 _{IT}	200
27	230	235	255	240	240	240	260	240	220	210	200	200
28	225	225	220	220	270	270	280	240	210	200	180	180 _{IT}
29	230	240	240	260	235	220	230	230	220	C	C	C
30	215	220	230	220	225	235	270	240	220	210	200 _{IT}	200
31	235	220	220	220	235	240	255	235	205	200	C	C
Count	31	31	31	31	30	29	30	31	31	29	27	28
Median	230	230	230	225	235	250	270	230	210	200	200	200
Mean	230	230	230	230	240	255	270	230	210	200	195	195

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'F		TABLE 31										Latitude 10 2° N	
Unit	Km	Ionospheric Data										Longitude 77 5° E	
Month	January, 1962	75°E Mean Time											
	12	13	14	15	16	17	18	19	20	21	22	23	Date
200	200	195	185 _H	200	245	270	300	340	F	300	220		1
185	180	180 _H	210	205	240	260	300	300	300	260	225		2
185	195	185	185	190	240	260	275	240	235	235	230		3
180	180	175	200	210	A	A	240	230	225	225	235		4
190	180	180	180	220	250	260	260	240	260	250 _r	260 _r		5
200	185	195	200	220	A	255	260	250 _{ur}	240 _{ur}	240	245		6
200	195	180	190	200	240	255	255	250	210	220	230		7
185	180 _{rr}	180	200	230 _A	230	250	250	235	210	215	A		8
200	200	190	200	210	200 _H	260	255	260	265	260	230		9
210	180	180	200	205	230	255	260	245	245	240	230		10
190	170 _H	200 _H	220	220	240	250	240	230	270	240	250		11
190	190 _H	180	210	220	240	260	230	210	220	220	220		12
190	190	180 _H	200	220	220	240	230	230	240	250	240		13
200	180	180	190	210	230	260	300	270	260	280 _r	220		14
200	190	190 _{rr}	220	220	230	260	240	260	230	230 _r	230		15
200	190	180	175	200	240	270	240	235	230	220	240		16
195	195	195	190	220	235	275	330 _r	F	F	F	235		17
175	175	215	200	210	240	260	275	300 _F	290	F	260		18
195	190	190	215	240	A	250	290	290	250	240	240		19
190	170	180	200	225	240	260	300	F	F	240	250		20
180	185	180	190	220	240	275	320	280	255	230	225		21
180	180	190	200	215	240	260	315	310	260	250	240		22
190	180	180	180	200 _H	235	260	275	280 _r	250	240	220		23
180	180	200 _{rr}	210	220	230	255	265	260	235	230	230		24
180	185	185	200	210	235	260	265	240	215	210	220		25
180	180 _{rr}	170 _H	200	205	230	260	280	280	265	240	220		26
195	185	180	220	240	240	270	300	310	280	230	220		27
180 _H	180 _H	180	185	230	240	270	325	315	300	275	240		28
200	200	190	200	210	240	270	310	300	290	225	220		29
185 _{rr}	200	200	A	220	240	260	260	250	240	240	235		30
C	180 _H	190	C	205	250	280	350	360	345 _{ur}	F	245		31
30	31	31	29	31	28	30	31	29	28	28	30		Count
190	185	180	200	215	240	260	275	260	250	240	230		Median
190	185	185	200	215	235	260	275	270	255	240	235		Mean

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

TABLE 31 (Contd)
 Ionospheric Data
 75°E Mean Time
 Latitude 10° 2' N
 Longitude 77 5' E

Characteristic h'F	TABLE 31 (Contd)											
Unit Km	Ionospheric Data											
Month January, 1962.	75°E Mean Time											
Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	250 _F	245	235	220	225	235	245	220	220	200	200	190
2	235	235	230	225	230	245	245	210	220	200 _H	195	180 _H
3	235	210	215	240	260	280	250	230	220	200	200	185
4	235	240	225	220	240	265	250	220	200	185	190	185
5	220	215	215	220	220	E	250	220	200	200	195	195
6	235	220	215	220	245	260	245	230 _A	A	A	A	195
7	210	215	220	230	225	260	240	220	215	210	200	195
8	225	240	235	235	260	300	240	200 _H	190 _H	200	200	190
9	220	210	225	255	260	310	245	230	220	210	200	200
10	240	240	235	250	250	240	240	225	200	190	195	180
11	235	260	L	280 _{UF}	270	260	260	220	C	210	200	190
12	F	240 _{UF}	240 _{UF}	250	A	A	260	230	190 _H	210	210	200
13	230	240	230	230	220	240	240	220	200	190 _H	200 _H	190
14	230	230	240	240	230	240	240	220 _H	190 _H	190 _H	190	200
15	220	220	230	250	260	310	240	230	220	200	200	200
16	230	220	220	240	280	300	250	230	215	C	C	200
17	250	260	240	255	260	C	C	220	210	190	200	200
18	220	220	210	220	245	295	240	200	200	200	185	175
19	240	220	225	220	240	280	245	220	205	200	190	195
20	215	230	240	235	270	E	250	200	180	185	190	180
21	220 _F	210	215	220	240	E	240	200	180	180	180	180
22	235	230	220	230	235	260	220 _H	220	200	190	180	180
23	225	230	205	230	260	E	240	220	195	200	200	C
24	220	220	220	235	240	E	240	205	210	200	190	180
25	240	255	220	220	230	235	240	220	180 _H	190	190	190
26	225	225	220	210	220	230	240	215	200 _H	185	190	185
27	220	240	260	250	240	245	255	225	220	210	200	200
28	215	235	230	230	260	290	255	220	210	190	190	180
29	235	230	255	250	240	225	240	190	C	C	C	C
30	210	230	235	220	230	240	250	230	220	205	200 _H	195
31	230	220	220	225	235	230	245	220	210	C	C	C
Count	30	31	30	31	30	29	31	31	28	27	27	28
Median	230	230	225	230	240	260	240	220	210	200	195	190
Mean	230	230	230	235	245	260	245	215	205	195	195	190

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'F
 Unit Km
 Month January, 1962

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
180H	200	200H	200	220	260	285	335	F	F	260	205	1
180	180H	200	205	215	260	280	300	300	280	240	235	2
195	185H	195H	185	185H	255	270	265	250	230	240	240	3
180	180	180	205	235	A	250	235	220	220	240	225	4
180H	180	180	200	A	255	260	240F	260	250F	260F	250UF	5
195	180	180	205	225	A	255	260	240UF	240UF	240	240	6
200	185	190	200	225	245	260	240	215	205	220	220	7
180	180	180H	210A	230	255	250	240	225	210	220	230	8
195	195	200	200	215	250	260	260	230	270	240	240	9
190	180	195	210	225	260	260	270	230	245	235	230	10
180	180H	220	220	230	260	250	240	260	260	230	260	11
180H	190H	240	200H	230H	250	250	230	220	220	220	220	12
190	190	190	210H	220	240	230	250	230	250	250	240	13
200	190	180	190	220	240	280	300	250	260F	250UF	220	14
190	190H	210	210	260	260	250	240	250	220	240	230	15
200	180	200	195	230	255	270	240	240	225	240	255	16
190	195	180	200	225	255	300	F	F	F	F	230	17
170	195	210	200	240	250	260	300	290F	285	F	245	18
190	160	180	250	A	255	280	300	260	240	240	235	19
185	185	215	210	C	255	280	300	F	F	250	225T	20
185	180	180	195	230	260	300	300	260	240	230	225	21
180	190	190	200	230	255	300	320	275	250	245	240	22
180	180	180	200H	220	250	270	280	250F	240	230	225	23
180	180H	200	210	220	250	260	260	255	225	230	240	24
180	185	200	200	220	250	270	260	230	210	210	225	25
180	180	190H	210	225	245	265	280	275	250	240	225	26
190	190	200	220	265	260	280	310	300	240	230	220	27
180	180	180	200	230	260	300	330	300	280F	250	235	28
200	190	195	200	220	260	C	320	290	260	225	220	29
185H	190	A	A	A	250	270	250	235	235	235	240	30
180	180H	C	C	225	260	310	365	360UF	340UF	270F	270	31
31	31	29	29	27	29	30	30	28	28	29	31	Count
185	185	195	200	225	255	270	270	250	240	240	230	Median
185	185	195	205	225	255	270	275	255	245	240	235	Mean

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

Characteristic h'E
 Unit Km
 Month January, 1962

TABLE 32
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characterisic h'E
 Unit Km
 Month January, 1962

TABLE 32
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

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

Characteristic h'E
 Unit Km
 Month January, 1962

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

Latitude 10.2° N
 Longitude .77 5" E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'E
 Unit Km
 Month January, 1962

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

Latitude 10 2° N
 Longitude 77 5° E

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

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

Characteristic h'Es
 Unit Km
 Month January 1962

TABLE 33
 Ionospheric Data
 75° 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								100	100	100	100	100
3								120	115	110	105	100
4								100	100	110	110	110
5								100	100	100	100	100
6								105	100	100	100	100
7	120							105	100	100	100	100
8								105	100	100	100	100
9				105		100	105	105	135	100	100	100
10								120	110	110	110	110
11								110	100	100	100	100
12					105	100	100	110	100	100	100	100
13								105	100	100	100	100
14		105						G	100	100	100	100
15							100	100	100	100	100	100
16								130	120	110	C	110
17								120	115	120	110	115
18								120	110	110	110	110
19	110							G	100	100	115	115
20								120	115	110	110	115
21								100	100	100	100	100
22								100	100	100	100	100
23								G	100	100	100	C
24								G	100	100	100	100
25		105						G	100	100	100	100
26								G	G	100	100	100
27						120		130	120	110	110	110
28						100		G	100	100	100	100
29				110	135			G	G	C	C	C
30								100	100	100	100	100
31				100				100	100	100	C	C
Count	2	2		3	4	2	3	23	29	30	28	28
Median								105	100	100	100	100
Mean								110	105	105	105	105

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
 Unit Km
 Month January 1962

TABLE 33
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
 Unit Km
 Month January 1962

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

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							100	100	100	100	100	100
2							100	100	100	100	100	100
3							120	115	110	110	100	100
4							105	100	110	110	105	110
5							100	100	100	100	100	100
6							115	100	100	100	100	100
7	120						100	105	100	100	100	100
8							G	100	100	100	100	100
9							G	140	130	100	100	100
10				100	120	100	120	120	110	110	110	110
11		110					G	105	C	100	100	100
12				110	100	100	105	105	100	100	100	100
13							G	105	100	100	100	100
14							G	105	100	100	100	100
15							100	100	100	100	100	100
16							140	120	115	C	C	110
17							C	110	110	115	110	110
18						160		120	105	110	110	110
19	115						100	100	100	100	110	110
20								120	110	110	115	115
21							G	100	100	100	100	100
22							G	100	100	100	100	100
23							125	100	100	100	100	C
24							G	100	100	100	100	100
25							G	G	100	100	100	100
26							G	G	100	100	100	100
27				120			130	120	120	110	115	115
28							G	100	100	100	100	100
29				100				G	C	C	C	C
30							100	105	100	100	100	100
31							135	100	100	C	C	C
Count	2	1		4	2	3	16	28	29	28	28	28
Median							105	100	100	100	100	100
Mean							110	105	105	105	105	105

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

Characteristic h'Es
 Unit Km
 Month January 1962

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

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25.0 Mc in 27 seconds

Characteristic (M3000)F₂
 Unit —
 Month January 1962

TABLE 34
 Ionospheric Data
 75°E Mean Time

Latitude 10 2' N
 Longitude 77 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	F	3 20 _{ur}	3 30	3 35	3 40	3 20	2 95	2 95	2 80	2 75	2 70
2	3 40 _{ur}	F	3 40 _F	3 45	3 50 _{ur}	3 60	3 10	3 25	3 00	2 90	2 65	2 45
3	3 25	3 20	3 40	3 50	3 20	3 20	2 65	3 10	2 80	2 70	2 60	2 55
4	3 25	3 25	3 30	3 45	3 45	3 30	2 75 _{ur}	2 95	2 70	2 75	2 70	2 65
5	3 60	3 55	3 60	3 40	3 70	3 50	2 90	3 00	2 70	2 70	2 75	2 80
6	3 30 _{ur}	3 40 _F	3 65	3 60	3 50	3 50	3 10	3 10	2 90	2 40 _{us}	3 00	2 85
7	3 35	3 50 _{ur}	3 60	3 50	3 40	3 40	3 30	3 20	2 85	2 75	2 85	3 80
8	3 50	3 40	3 40	3 50	3 35	3 05	3 00	3 30 _{us}	3 00	2 95	2 70	2 30
9	3 40	3 50	3 50	3 50	3 40	3 25	2 90	3 40	3 10	3 20	2 90	2 90
10	3 30	3 30	3 40	3 30	3 25	3 30	3 30	3 30	3 00	2 80	2 90	2 90
11	3 50	3 20	3 10	2 85	3 05	3 30	3 00	3 15	3 00	2 85	2 65	2 65
12	F	F	3 40 _{ur}	F	F	A	3 15 _{ur}	3 10	2 75	2 60	2 80	2 70
13	3 40	3 30	3 35	3 30	3 50	3 60	3 10	3 20	2 95	2 75	2 50	2 45
14	3 35	3 45	3 20	3 30	3 40	3 50	3 10	3 30	2 95	2 55	2 70	2 50
15	3 40	3 40	3 35	3 20	3 15	2 85 _{ur}	2 80	3 40	3 35	3 00	2 65	2 70
16	3 25	3 40	3 60	3 20	3 25	3 10	3 00	3 30	3 20	2 75	C	2 55
17	3 20	3 20	3 20	3 35	3 30	C	C	3 20	3 00	2 65	2 60	2 50
18	3 30	3 30	3 30	3 50	3 45	3 40	2 85	3 00	2 65	2 60	2 65	2 60
19	F	F	F	F	3 40	3 35	2 95	3 10	2 90	2 75	2 70	2 80
20	3 25	3 20	3 20	3 35	3 45	E	2 90	2 85	2 75	2 65	2 70	2 60
21	F	3 30	3 65	F	F	E	2 95	3 30	2 70	2 80	2 55	2 60
22	3 40	3 40	3 40	3 50	3 55	3 60	2 80	3 35	2 80	2 55	2 65	2 60
23	3 45	3 45	3 60	3 50	3 40	E	3 00	3 40	2 90	2 70	2 65	C
24	3 50	3 50	3 50	3 50	3 55	E	2 90	3 40	3 00	2 60	2 70	2 55
25	3 35	3 15	3 45	3 50	3 50	3 50	3 10	3 35	3 10	2 55	2 50	2 50
26	3 35	3 30	3 35	3 45 _v	F	3 45	3 05	3 30	3 25	3 00	2 45 _{ur}	2 45
27	3 30	3 25	3 20	3 30	3 30	3 40	2 90	3 40	3 25	3 20	2 80	2 45
28	3 30	3 35	3 40	3 30	3 10	3 35	2 75	3 30	3 20	2 85	2 40	2 40
29	3 30 _{ur}	F	3 20	3 10 _{ur}	3 15 _{ur}	3 30	3 10	3 45	3 35	C	C	C
30	3 35	3 25	3 20	3 15	3 35	3 45	2 90	3 10	2 70	2 55	2 50	2 45
31	3 20	3 30	3 40	3 40	3 25	3 15	3 20	3 10	2 90	2 60	C	C
Count	27	26	30	28	28	25	30	31	31	30	28	28
Median	3 35	3 30	3 40	3 40	3 40	3 40	3 00	3 25	2 95	2 75	2 70	2 60
Mean	3 35	3 35	3 40	3 40	3 35	3 35	3 00	3 25	2 95	2 75	2 70	2 60

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

Characteristic (M 3000)F₂
 Unit —
 Month January 1962

TABLE 34
 Ionospheric Data
 75 E Mean Time

Latitude 10 2' N
 Longitude 77 5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2 65	2 50	2 40	2 25	2 55	2 60	2 80	2 60	2 55	F	F	F	1
2 55	2 55	2 40	2 45	2 60	2 65	2 80	2 60	2 50	2 60 _{ur}	2 95	3 10	2
2 50	2 40	2 30	2 35	2 30	2 70	2 90	2 80	2 85	2 90	2 85	3 10	3
2 55	2 10	2 65	2 50	2 80	2 80	3 05	3 20	3 25	3 30	3 30	3 50	4
2 80	2 75	2 70	2 65	2 75	2 70	2 90	3 00	3 10	3 00	F	3 15 _{ur}	5
2 75	2 60	2 30	2 40	2 80	3 05	3 10	3 10	3 10	3 10 _{ur}	3 20	3 30	6
2 75	2 70	2 60	2 70	2 75	2 90	2 95	3 00	3 20	3 40 _{us}	3 45	3 40	7
2 65	2 70	2 65	2 80	3 00	3 10	3 00	3 00	3 30	3 45 _{us}	3 50	3 50	8
2 70	2 70	2 70	2 55	2 50	2 70	2 80	2 80	3 00	3 05 _{us}	3 10 _i	F	9
2 80	2 60	2 45	2 50	2 55	2 70	2 90	2 90	2 90	3 10	3 10	3 30	10
2 60	2 65	2 80	2 85	3 00	3 00	2 90	3 00	3 10	3 25	3 40	3 25	11
2 60	2 50	2 65	2 70	2 70	2 90	3 10	3 30	3 45	3 35	3 65	3 60	12
2 55	2 55	2 60	2 70	2 90	3 00	3 20	3 10	3 40	3 20	3 35	3 35	13
2 45	2 60	2 50	2 60	2 75	2 90	3 00	2 80	2 95	3 05 _v	3 20 _i	3 50	14
2 70	2 65	2 80	2 90	3 00	2 95	2 90	2 90	3 05	3 20	3 45	3 50	15
2 60	2 50	2 55	2 60	2 60	2 60	2 80	2 85	3 00	3 25	3 40	3 30	16
2 65	2 60	2 60	2 55	2 50	2 60	2 70	2 70	F	F	F	3 20 _i	17
2 65	2 70	2 70	2 80	2 80	2 75	2 80	2 70	2 80	F	F	F	18
2 45	2 75	2 55	2 60	2 60	2 65	2 65	2 65	2 70	2 90	3 10	3 10	19
2 65	2 70	2 80	2 90	3 00	2 70	2 50	2 45	F	F	F	F	20
2 60	2 45	2 60	2 70	2 80	2 90	2 85	2 60	2 65	2 85	3 35	3 50	21
2 65	2 70	2 95	3 00	3 10	3 10	2 75	2 55	F	F	3 05 _{ur}	3 25	22
2 65	2 50	2 60	2 70	2 80	2 90	2 85	2 80	2 80	3 00	3 25	3 35	23
2 65	2 60	2 75	2 90	2 95	2 95	2 80	2 90	3 05	3 30	3 45	3 45	24
2 45	2 40	2 45	2 50	2 75	2 80	2 90	2 90	3 10	3 30	3 40	3 45	25
2 50	2 40	2 50	2 60	2 70	2 80	2 90	2 80	2 80	3 05	F	3 40	26
2 35	2 50	2 55	2 55	2 65	2 60	2 50	2 70	2 65	2 75 _i	3 20	3 25	27
2 40	2 45	2 40	2 40	2 50	2 60	2 60	2 50	2 60	2 60	F	F	28
2 50	2 35	2 35	2 35	2 40	2 50	2 60	2 55	2 55	2 65	3 10	3 15	29
2 55	2 60	2 65	2 80	2 90	2 90	2 80	2 80	2 85	2 95	3 15	3 15	30
C	2 40	2 30	C	2 40	2 45	2 50	2 40	F	F	F	F	31
30	31	31	30	31	31	31	31	27	25	23	25	Count
2 60	2 60	2 60	2 60	2 75	2 80	2 85	2 80	2 95	3 05	3 25	3 30	Median
2 60	2 55	2 55	2 65	2 70	2 80	2 85	2 80	2 95	3 05	3 25	3 35	Mean

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

Characteristic (M3000)F₂
 Unit —
 Month January 1962

TABLE 34 (contd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2" N
 Longitude 77 5" E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic (M 3000)F₂
 Unit —
 Month January 1962

TABLE 34 (cont'd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic f_oF_2
 Unit Mc
 Month February, 1962

TABLE 35
 Ionospheric Data
 75°E Mean Time

Latitude 10 2 N
 Longitude 77 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	F	F	F	3.2	3.0	3.8	6.3	7.2	8.4	9.1	9.5
2	6.3	5.2	4.8F	4.0	2.9	S	2.6	6.0	7.4	C	C	C
3	F	5.6	4.3	F	1.4	2.2	2.8	5.7	7.2	7.6	7.1	6.8
4	F	F	F	F	2.7	1.6	E	2.4	5.8	6.9	7.6	7.4
5	F	F	F	F	3.6	3.1	3.3	6.3	7.5	8.0	8.4	8.1
6	F	F	5.0UF	4.0	2.9	2.1	2.6	6.3US	7.9	7.5	7.1	7.6
7	6.0UF	F	F	4.6F	2.8	1.8	2.8	6.3	7.4	8.3	7.9	7.0
8	6.0US	5.4UF	3.8UF	3.2F	2.1	E	2.4	6.0	7.4	C	C	C
9	5.2	5.0	5.0	3.6	2.1	F	2.7	5.9	7.8	C	C	C
10	6.8UF	6.0UF	6.0US	F	2.6	1.7	2.7	5.7	7.1	7.3	7.2	7.4
11	F	6.1JS	4.8	2.8	2.0	R	2.1	5.6	6.8	7.8	8.3	8.1
12	5.3JS	F	5.7US	4.5US	F	F	F	6.3	7.9	8.6	8.8	7.6
13	7.9	5.5	4.0	2.9	1.9UR	1.6	2.5	6.0	7.5	7.2	8.0	8.7
14	F	6.8	5.7	3.9	2.7	R	2.7	6.2	8.2UK	C	C	C
15	F	C	5.8UF	F	F	F	F	6.2	8.2	C	C	C
16	F	F	S	S	4.1	3.2	3.6UF	6.6	8.1	C	C	C
17	5.0US	S	4.1	C	F	4.0	4.3	6.4	7.3	8.2	C	C
18	F	F	F	F	F	F	4.3UF	6.1	7.7	8.2	8.5	9.1
19	F	F	F	F	F	F	4.2	6.6	8.0	8.4	8.6	9.1
20	C	C	C	C	C	C	C	C	8.4	8.3	8.4	8.8
21	F	F	F	3.0	F	1.7	3.1	6.6	8.3	C	C	C
22	F	F	F	F	F	3.0	3.4	6.6	8.6	8.7	8.2	8.4
23	5.7	4.8	4.0	3.4	2.7	F	3.2	6.7	8.5	8.6	8.1	8.7
24	8.8	S	S	4.6	S	S	S	7.1S	8.6	8.7	8.1	8.5
25	S	S	S	S	S	3.2	3.5	7.1	8.8	8.8	8.4	8.0
26	7.4US	6.8S	5.7US	4.3US	3.5US	2.8S	S	7.2S	9.4	9.8	8.8	8.6
27	FS	FS	FS	FS	FS	FS	S	8.5US	9.9	10.2	9.3	9.0
28	S	S	S	S	S	4.7S	S	8.0US	9.6	10.5	9.8	9.6

Count	11	10	14	14	16	19	21	27	28	21	21	20
Median	6.0	5.6	4.9	3.8	2.7	2.8	3.1	6.3	7.9	8.3	8.4	8.4
Mean	6.4	5.7	4.9	3.7	2.6	2.8	3.1	6.5	8.0	8.4	8.4	8.3

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

Characteristic $f_o F_2$
Unit Mc
Month February 1962

TABLE 35
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
10 1	9 1	C	C	9 6	9 4	9 3 ^{us}	8 6	8 0 ^{us}	8 4	8 0	7 0	1
C	C	C	C	C	C	7 4	F	F	F	F	F	2
7 8	7 2	7 6	8 0	8 3	8 6	8 3	7 0	F	F	F	F	3
8 4	8 2	8 4	8 6	9 0	8 6	7 3 ^{JR}	6 1 ^t	FS	FS	FS	FS	4
8 4	8 8	9 2	9 4	9 7	9 3	8 3	7 0	F	F	F	7 4 ^{uf}	5
7 9	8 3	9 3	10 2	9 8	9 7	9 0	7 8	7 0	F	F	F	6
7 3	6 7	6 7	7 0	7 5	7 9	7 8	7 0	F	F	F	6 9 ^{ur}	7
C	7 5	C	8 2	8 7	9 0	8 6	8 1	8 4	8 0 ^{us}	6 9	5 8	8
7 2	7 0	C	7 3	7 3	7 5	6 9	6 2 ^{us}	F	F	F	F	9
7 8	7 8	7 7	7 8	7 7	7 5	7 4 ^{us}	6 6	6 4 ^r	F	F	F	10
8 6	8 6	9 2	9 2	8 8	8 4	8 1	7 3	6 8	F	F	5 7	11
7 4	7 6	8 3	8 2	8 2	8 0	8 1	7 4	S	7 3	7 3 ^{us}	7 4	12
8 9	9 1	C	9 0	8 8	7 9	7 2	6 8	F	F	F	F	13
9 2	C	8 5	8 3	8 2	8 1	7 7	7 1	F	F	F	F	14
C	10 0	C	C	C	6 6	6 4	5 7	F	5 8 ^t	F	F	15
C	C	C	C	7 6	8 6	9 2	7 6	6 3 ^t	6 3 ^r	6 5	5 3	16
10 0	C	C	10 9	11 6	11 5	10 2	F	F	F	F	F	17
9 5	10 4	10 6	10 8	11 1	10 3	9 4	9 0	F	F	F	F	18
9 0	10 0	10 2	10 7	10 6	10 2 ^{JR}	6 9	5 3	F	C	C	C	19
9 0	9 7	10 2	10 8	11 0	10 5	9 0 ^{JR}	F	F	F	F	F	20
8 6	9 4	10 0	10 7	10 2	10 0	9 2	F	F	F	F	F	21
9 3	9 9	9 8	10 0	10 8	10 2	9 4	9 0	F	F	10 5	7 9	22
9 0	9 4	9 6	9 7	9 6	9 4	9 0	8 2 ^{us}	FS	FS	FS	FS	23
8 6	8 7	9 1	9 1	9 2	9 0	8 0 ^{us}	S	S	S	S	9 0 ^s	24
8 0	8 1	8 2	8 5	8 9	8 8	7 8 ^s	S	S	7 0 ^s	S	8 1 ^{us}	25
9 1	9 1	9 2	9 6	9 6 ^{us}	9 6 ^{us}	9 3 ^s	8 4 ^{us}	8 3	8 8 ^s	9 2	9 5 ^{us}	26
9 2	10 0	10 8	11 4	11 5 ^s	12 4	11 6 ^s	11 5 ^s	10 4 ^{us}	9 6 ^{us}	10 2 ^{us}	S	27
10 0	10 8	11 2	11 6	12 0	12 0	11 6 ^s	10 6 ^s	10 6 ^s	11 2 ^s	10 6 ^s	9 4 ^s	28

22	24	20	24	26	27	28	22	9	9	8	12	Count
8 8	9 0	9 2	9 3	9 4	9 0	8 3	7 3	8 0	8 0	8 6	7 4	Median
8.7	8 8	9 2	9 4	9 4	9 2	8 5	7 6	8 0	8 0	8 6	7 4	Mean

Sweep 1 0 Mc to 25.0 Mc in 27 seconds

Characteristic f_oF_2
 Unit Mc
 Month February, 1962

TABLE 35
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	F	F	3 2	2 5	F	3 8	6 7	8 3	9 1	9 1	10 0
2	5 8	5 0	4 6 _F	3 4	2 9	2 0	4 4	7 2	8 2	C	C	C
3	F	5 0	3 8	F	2 4	1 8	4 4	6 8	7 5	7 3	7 0	C
4	F	F	F	2 1	E	E	4 2	6 6	7 1	7 6	7 5	7 6
5	F	F	4 4	4 1	3 5	2 7	4 8	6 7	7 8	8 1	8 4	8 2
6	F	5 8 _{UF}	F	3 7	2 6 _{UF}	1 7	4 5	7 0	8 0	7 4	7 4	7 7
7	6 7 _{UF}	F	6 7 _{UF}	3 8	2 1	1 5	4 6	6 8	8 2	8 2	6 9	7 0
8	F	4 8 _F	3 8 _F	2 7	E	E	4 5	6 8	7 7	C	C	C
9	4 9	5 5	4 5	2 8	E	E	4 7	6 9	C	C	C	C
10	F	F	F	3 0 _{UF}	2 1	1 6	4 5	6 5	7 4	7 3	7 3	7 6
11	F	5 9	3 5	2 2	1 6 _{JR}	E	4 3	6 3	7 3	8 0	8 2	8 4
12	F	F	4 5	F	F	F	5 3 _{UF}	7 1	8 6	9 1	8 2	7 4
13	6 6	4 9	3 6 _{UC}	2 3	1 7	1 3	4 3	6 8	7 4	7 6	8 5	9 2
14	F	6 5	4 7	3 3	2 2	R	4 7	7 3	C	C	C	C
15	F	C	4 4 _{UF}	F	F	F	4 6	7 1	C	C	9 0	C
16	F	F	5 4 _{US}	4 6	3 7	F	4 6	7 7	C	C	C	C
17	S	4 3	3 7	S	4 0	3 9	4 9	7 0	7 8	C	C	C
18	F	F	5 6	F	S	F	4 8	7 3	8 2	8 2	8 6	9 6
19	F	F	F	5 4	F	F	5 4	7 7	8 2	8 4	9 0	9 3
20	C	C	C	C	C	C	C	C	8 4	8 4	8 6	9 0
21	F	F	F	F	F	E	4 8	7 7	8 7	9 0	C	8 3
22	F	F	F	F	3 9	2 5 _F	5 4 _{JR}	7 7	8 8	8 5	8 4	9 0
23	5 2	4 2	3 8	3 0	2 5	1 8	4 8	7 8	8 8	8 4	8 6	8 8
24	7 0	S	4 7 _S	3 8	S	3 3	5 7 _{US}	8 4	8 9	8 5	8 2	8 7
25	S	S	4 5 _{US}	S	S	2 7	5 7	8 0	9 1	8 7	8 2	8 1
26	7 0 _s	6 5 _{US}	S	S	3 2 _s	2 4 _s	5 6 _{US}	8 7	10 1	9 2	8 5	8 7
27	7 6 _s	8 0 _{US}	8 0 _s	S	5 6 _s	5 4 _s	7 0 _{US}	9 2	10 1	10 0	9 1	9 0
28	S	S	6 5 _{US}	S	S	S	5 8 _{US}	8 8 _s	10 3	10 2	9 6	9 6
Count	8	12	19	16	19	19	27	27	24	21	21	20
Median	6 6	5 2	4 5	3 2	2 5	1 8	4 7	7 1	8 2	8 4	8 4	8 7
Mean	6 4	5 5	4 8	3 3	2 9	2 5	4 9	7 4	8 4	8 4	8 3	8 6

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic $f_o F_2$
 Unit Mc
 Month February, 1962

TABLE 35 (Cont'd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
9.8	9.2	C	C	9.6	9.6 ^{us}	9.0	7.9	7.7	8.2 ^{us}	7.4 ^{us}	6.6	1
C	C	C	C	C	8.0	6.8	F	F	F	F	5.8	2
7.2	7.4	7.8	8.2	8.8	8.6	7.6	F	F	F	F	F	3
8.1	8.4	8.4	9.0	9.0	8.0	6.9	FS	FS	FS	FS	F	4
8.8	9.0	9.4	9.7	9.4	8.6	7.4 ^{us}	F	F	F	F	7.8 ^{ur}	5
8.0	8.9	9.9	10.0	9.9	9.5	8.0	7.5	F	F	F	F	6
6.9	6.6	6.6	7.1	7.7	7.7	7.1 ^{us}	6.9 ^{ur}	F	F	6.0 ^{ur}	F	7
C	7.5	7.8	8.5	8.8	8.8	8.4	8.3	8.4	7.6 ^{us}	6.4	5.3	8
7.1	6.9	7.2	7.3	7.3	7.2 ^{us}	7.0	5.7	F	F	F	F	9
7.8	7.9	7.7	7.8	7.8	7.4	7.1	6.6	6.0 ^{ur}	F	6.6	F	10
8.6	9.0	9.2	9.0	8.5	8.2	7.7	7.0	6.7	F	6.4	5.3	11
7.4	8.0	8.2	8.2	8.2	8.2	7.9	7.5	7.3	7.5	7.2	8.0	12
9.0	9.1	9.1	9.0	8.6	7.4	7.1	6.6 ^r	F	F	F	F	13
8.4	8.2	8.5	8.4	8.3	7.9	6.7	6.9 ^{ur}	F	F	F	F	14
10.1	9.8	C	C	6.7	6.4	6.0	F	5.7	6.2	F	F	15
C	C	C	C	8.0	8.8	8.7	6.9	6.1 ^{ur}	F	6.0	5.1	16
C	C	C	11.0	11.5	10.9	9.8	F	F	F	F	F	17
10.2	10.4	10.7	11.2	11.2	10.1	9.0	F	F	F	F	F	18
9.5	10.1	10.6	10.7	10.3	8.8 ^{JR}	5.8	4.8 ^{rs}	C	C	C	C	19
9.3	9.8	10.4	11.0	10.9	9.8	8.4	F	F	F	F	F	20
8.6	9.6	10.6	10.6	10.2	9.7	8.7	F	F	F	9.0	F	21
9.6	10.0	9.8	10.4	10.5	10.2	9.1	8.6	F	10.6	9.1	6.8	22
9.1	9.4	9.8	9.6	9.6	9.2	8.6	FS	FS	FS	FS	9.0 ^{us}	23
8.8	8.8	9.0	9.2 ^s	9.0	8.8 ^{us}	7.7 ^{us}	S	S	S	8.8	S	24
8.1	8.1	8.4	8.7	8.8	8.3	S	S	S	7.8 ^{JR}	S	8.0 ^{us}	25
9.1	9.1	9.5	9.6	9.6 ^{us}	9.4 ^{us}	9.0	8.4 ^{JR}	FS	9.3 ^s	9.2	9.0 ^s	26
9.8	10.4	11.1	11.5	11.7	12.6 ^{us}	11.6 ^{us}	11.2 ^{us}	9.8 ^{us}	10.2	10.6	10.0 ^{us}	27
10.6	11.1	11.3	12.0	12.2	11.8 ^s	11.8 ^s	10.4 ^s	11.2 ^s	11.2	9.6 ^s	9.2 ^s	28

24	25	23	24	27	28	27	17	9	9	13	13	Count
8.8	9.0	9.2	9.4	9.0	8.8	7.9	7.0	7.3	8.2	7.4	7.8	Median
8.7	8.9	9.2	9.5	9.3	8.9	8.1	7.1	7.7	8.7	7.9	7.4	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic, foF1,
Unit Mc
Month February 1962

TABLE 36
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									L	L	L	L
2								L	4.5	C	C	C
3								L	L	4.5	4.5	4.7
4							L	L	L	L	5.0	L
5							L	L	L	L	4.8	4.6
6							L	L	L	L	L	4.6UL
7								L	L	L	L	L
8								L	L	C	C	C
9								L	L	C	C	C
10								L	L	L	L	L
11									L	4.4	4.6	4.8
12									L	4.5	L	4.5
13									L	L	L	4.8
14									L	C	C	C
15									L	C	4.5	C
16									L	C	C	C
17									L	L	L	L
18									L	L	L	L
19							L	L	L	L	L	L
20							C	C	L	L	L	B
21							L	L	L	C	C	C
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

Count							1	3	5	6
Median									4.6	4.6
Mean									4.7	4.7

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo F1
 Unit Mc
 Month February 1962

TABLE 36
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	C	C	A	L							1
C	C	C	C	L	L							2
L	4 4	4 7	4 3	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
C	L	L	L	L	L				L			8
L	L	L	L	L	L				A			9
L	L	L	L	L	L							10
4 6	4 6	4 5	L	L	L							11
4 6	4 5	4 6	L	L	L							12
L	4 8	C	L	L	L							13
L	C	L	L	L	L				L			14
C	4 8	C	C	C	C							15
C	C	C	C	L	L							16
4 8	4 8	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
B	L	L	L	L	L				L			28

3	6	3	1									Count
	4 7											Median
	4 6											Mean

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

Characteristic · foF1
 Unit Mc
 Month February 1962

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

Latitude · 10 2' N
 Longitude 77 5" E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	I
2							L	L	4 4	C	C	C
3							L	L	4 3	4 6	4 6	C
4							L	L	L	4 9	I	I
5							L	L	L	L	I	I
6							L	L	L	L	4 6t	I
7								L	L	L	I	4 6
8								L	L	C	C	C
9								L	L	C	C	C
10								L	L	L	I	I
11								L	L	4 4	4 6	4 6
12								L	L	L	L	4 6
13								L	L	L	L	4 8
14								L	C	C	C	C
15								L	C	C	4 6	C
16									C	C	C	C
17								L	L	L	C	C
18								L	L	L	4 9	4 8
19							L	L	L	L	L	L
20							C	C	L	L	L	L
21							L	L	L	L	C	I
22							L	L	L	L	I	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

Count				2	3	5	5
Median						4 6	4 6
Mean						4 7	4 7

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foF1
 Unit Mc
 Month February 1962

TABLE 36—Contd
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	C	C	L								1
C	C	C	C	C								2
4.6	5.0	4.8	4.6	L								3
5.0	L	L	L	L	L							4
L	L	L	L	L	L							5
L	L	L	4.5	L								6
4.5	L	L	L	L								7
C	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
4.6	4.6	4.4	L	L								11
4.5	4.6	L	L	L								12
4.5 ^{it}	L	L	4.3	L								13
4.8	4.6 ^{UL}	L	L	L								14
4.6	L	C	C	L								15
C	C	C	C	L								16
C	C	C	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	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
5.1	L	L	L	L	—							28
												Count
9	4	2	3									Count
												Median
4.6												Median
												Mean
4.7	—	—										Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foE
 Unit Mc
 Month February, 1962

TABLE 37
 Ionospheric Data
 75°E Mean Time

Latitude 10 2' N
 Longitude 77 5' E

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

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

Characteristic foE
Unit Mc
Month February, 1962

TABLE 37
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
B	A	C	C	A	A							1
C	C	A	A	A	C							2
A	A	A	A	A	4 0							3
A	A	A	A	A	A							4
A	A	A	A	A	A							5
A	A	A	3 1	2 7	—							6
A	A	A	A	A	—							7
C	A	A	A	A	2 7							8
A	A	C	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	3 4	C	A	A	A							13
A	C	A	A	A	A							14
C	A	C	C	C	A							15
C	C	C	C	A	—							16
A	A	3 5π	3 1	2 7	—							17
A	3 6	A	R	2 8	A							18
A	A	2 8	2 8	A	A							19
A	A	A	3 1	A	A							20
A	A	3 6	3 4	A	A							21
A	A	A	3 7	A	A							22
A	A	A	A	A	A							23
A	A	A	A	A	A							24
A	A	A	A	A	A							25
A	A	A	A	A	A							26
A	A	A	A	A	3 0							27
B	A	A	A	A	A							28

2	4	5	7	3	Count
		3 1	2 8		Median
		3.2	3 0		Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foE
Unit Mc
Month February, 1962

TABLE 37—Contd
Ionospheric Data
75°E Mean Time

Latitude 10 2" N
Longitude 77 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								2 6	3 1	3 4	3 6	3 7
2								2 8	3 4	C	C	C
3								A	A	A	A	A
4							2 1	A	A	A	A	A
5								A	A	A	A	A
6							A	A	A	A	A	A
7								2 6	A	A	A	A
8								2 5	A	C	C	C
9								A	C	C	C	C
10							1 7H	A	A	A	A	A
11							1 7	A	A	A	A	A
12								2 6	A	A	A	A
13								A	A	A	A	A
14								A	A	C	C	C
15							1 8	A	C	C	3 3	C
16							R	2 6	C	C	C	C
17								A	A	C	C	C
18							1 8	A	A	A	A	A
19							3 6	A	A	A	A	A
20								C	A	A	A	A
21								A	A	A	C	A
22							R	A	A	A	A	A
23							2 4	A	A	A	A	A
24								A	A	A	A	A
25								A	A	A	A	A
26								A	A	A	A	A
27								3 3	A	A	A	A
28							1.7	A	A	A	A	A

Count							8	7	2	1	2	1
Median							1 8	2 6				
Mean							2 1	2 6	-	.	.	..

Sweep 1 0 Mc to 25.0 Mc in 27 seconds

Characteristic foE
 Unit Mc
 Month February, 1962

TABLE 37—Contd
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	C	C	A								1
C	C	C	C	A								2
A	A	A	A	A								3
A	A	A	A	A	A							4
A	A	A	A	A	A							5
A	A	3 2	3 2 ^{II}	A								6
A	A	A	A	A								7
C	A	A	3 0	2 8	2 0							8
A	A	A	A	A	A							9
A	A	A	A	A	A							10
A	A	A	A	A	1 9							11
A	A	A	A	A	2 0 ^{σA}							12
A	A	A	A	A	A							13
A	A	A	A	A	A							14
A	A	C	C	A	2 0							15
C	C	C	C	A								16
C	C	C	2 8	2 4								17
A	A	3 3	R	2 4								18
3 7	3 6	3 1	R	A								19
A	2 9	2 8	2 9	2 8								20
A	3 8	3 4	R	A								21
A	R	3 7	A	A	2 1 ^{us}							22
A	A	A	A	A	A							23
A	A	A	A	A	S							24
A	A	A	A	A	A							25
A	A	A	A	A	A							26
A	A	A	3 4	3 2								27
A	A	A	A	A								28

1	3	6	5	5	5	Count
		3 2	3 0	2 8	2 0	Median
		3 2	3 1	2 7	2 0	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foEs
Unit Mc
Month February, 1962

TABLE 38
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								G	G	G	G	G
2								G	9 0	C	C	C
3								2 9	8 0	8 8	8 8	9 0
4						2 2		2 8 ^{us}	9 4	9 4	11 0	11 8
5								S	8 5	11 2	11 4	11 6
6							4 6	G	9 4	9 8	11 4	12 8
7								G	8 6	9 4	9 4	9 8
8								3 0	7 0 ^{us}	C	C	C
9								G	8 4	C	C	C
10								3 0	10 4	12 8	11 8	11 6
11							7 0	7 8 ^{us}	9 4	10 0	9 7	10 8
12	S							G	5 8	9 0	12 6	11 7
13								S	10 0	9 0	10 2	9 0
14								G	7 6 ^{us}	C	C	C
15				3 1				G	7 0	C	6 8	C
16								G	6 6	C	C	C
17				5 6				5 4	8 1	10 6	C	C
18								6 6	8 5	9 4	9 8	9 4
19			4 8 ^{us}					4 6 ^{us}	7 0	9 8	9 8	9 6
20								C	7 8	9 0	10 0	8 2
21								G	8 0 ^{us}	C	C	C
22								4 6 ^{us}	8 8	11 2	11 6	11 6
23								3 8 ^{us}	7 2	9 2	11 8 ^{us}	13 0
24								6 0 ^{us}	10 0 ^{us}	12 0	13 0	12 0
25								5 0 ^{us}	9 6 ^{us}	11 8 ^{us}	12 4	11 4
26								4 6 ^{us}	9 2 ^{us}	9 2	12 8	11 4
27								4 2 ^{us}	9 2	9 2	12 0	12 2
28								6 2 ^{us}	9 2	11 2	12 6	11 8

Count	1	2	1	2	25	28	21	21	20
Median					3 0	8 5	9 4	11 4	11 5
Mean					4 7	8 4	10 1	10 9	11 0

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foEs
 Unit Mc
 Month February, 1962

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
9 0	8 6	C	C	9 6	4 4			4 0				1
C	C	C	C	C	C							2
C	11 8	10 6	9 6	5 0								3
11 4	10 8	10 4	9 2	7 2 ^{us}	4 8 ^{us}							4
11 2	12 2	10 4	8 6	7 8	5 6 ^{us}							5
11 6	10 8	8 0	G	G								6
9 8	8 8	8 8	8 2	8 0		6 4						7
C	10 4	C	7 8	G	G					4 2	4 0	8
8 4	9 8	C	9 0	10 8 ^{us}	7 0	3 2 ^{us}						9
13 0	13 0	11 6	10 8	11 4	9 0 ^{us}			4 4 ^{us}	4 5			10
10 7	11 0	11 0	9 4	9 3	6 8	S	S		2 1	3 6	5 5 ^{us}	11
11 7	11 0	11 7	9 0	7 7	5 8							12
9 6	G	C	8 0	8 0	G							13
9 8	C	9 2	8 4	8 2	7 5					5 4		14
C	8 2	C	C	C	6 8			1 8				15
C	C	C	C	8 2	4 0							16
C	C	C	7 0	8 4	S							17
8 6	8 6	G	G	7 0	6 8					2 4		18
8 1	G	G	G	10 3	5 8 ^{us}							19
10 6	8 6	G	G	G	6 2							20
12 0	10 4	G	G	8 4	4 8							21
11 8	12 4	9 4	8 6	9 0	4 8 ^{us}			2 4				22
11 8	12 8	11 4	9 8 ^{us}	8 8 ^{us}	4 6 ^{us}							23
12 0	9 4	12 0	10 6	10 0 ^{us}	9 0 ^{us}							24
12 4	12 8	11 4	10 0	8 6	8 4 ^{us}							25
11 9	13 0	11 6	10 2	9 0	5 4 ^{us}							26
10 9	8 8	8 8	9 4	G	5 5					4 0 ^{us}		27
B	12 4	8 7	8 8	9 0	6 8							28
21	24	20	24	26	23	2		4	2	4	3	Count
11 2	10 6	9 9	8 7	8 3	5 8							Median
11 3	10 7	10 3	9 1	8 6	6 2							Mean

Sweep 1·0 Mc to 25·0 Mc in 27 seconds

Characteristic foEs
Unit Mc
Month February, 1962

TABLE 38—Contd
Ionospheric Data
75°E Mean Time

Latitude 10.2'N
Longitude 77 5'E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foEs
 Unit Mc
 Month February 1962

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

Latitude 10 2°N
 Longitude 77 5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
9.6	10.0	C	C	8.4	3.4							1
C	C	C	C	C	4.6							2
12.0	11.6	10.6	8.0	4.8								3
11.2	11.4	9.2	8.6	7.0	3.2Us							4
11.7	11.2	8.6	8.7	7.0Us	3.6Us							5
11.6	12.4	5.9	G									6
9.2	8.8	8.2	8.0	7.0	7.0Us							7
C	10.6	8.2	G	G	G					4.6		8
8.6	10.0	8.8	10.6Us	10.0Us	6.0Us	3.6Us						9
13.6	11.8	11.0	10.6	9.4Us	6.0Us		4.0Us	3.6		4.0Us		10
10.6	10.6	10.0	9.0Us	7.8	G	5.6	S			3.2	S	11
11.6	10.3	9.8	8.8	7.7	S					S		12
9.2	10.6	8.0	8.2	7.0								13
9.8	9.4	8.4	8.2	7.2								14
7.7	9.3	C	C	7.0	3.6							15
C	C	C	C	7.8								16
C	C	C	9.5	6.7								17
8.6	7.4	G	G	2.9	4.1							18
8.0	G	G	G	8.0								19
9.8	G	G	G	7.0					3.4			20
11.0	G	G	G	7.0Us								21
12.8	7.8	8.4	9.2	8.2Us	G							22
12.8	11.2	11.4	9.2Us	7.0Us								23
11.2	11.8	12.0	10.0	8.2Us	S							24
11.2	11.6	11.8	8.8	8.2Us	6.2Us							25
12.8	11.2	11.2	10.2	8.0	4.2Us							26
10.4	9.4	8.9	G	G						5.8Us		27
14.0	9.0	8.8	9.0	8.8							3.0	28
24	25	23	25	26	13	2	1	1	3	2	1	Count
11.1	10.3	8.8	8.6	7.1	4.1							Median
10.8	10.3	9.4	9.0	7.3	4.8							Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fbEs
 Unit Mc
 Month February, 1962

TABLE 39
 Ionospheric Data
 75 E Mean Time

Latitude 10 2"N
 Longitude 77 5'E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								G	G	G	G	G
2								2.5	2.8	C	C	C
3								2.5	3.0	3.2	3.4	3.6
4								1.5	2.8	3.2	3.4	3.6
5								2.2	2.8	3.2	3.4	3.5
6								G	2.4	3.1	3.3	3.5
7								G	2.8	3.2	3.6	3.7
8								2.2	2.8	C	C	C
9								G	2.9	C	C	C
10								2.3	2.8	3.1	3.4	3.7
11							1.9	2.2	2.8	3.1	3.4	3.4
12	1.7							G	2.8	3.1	3.2	3.4
13								2.2	2.8	3.0	3.3	3.5
14								G	2.9	C	C	C
15			2.3					G	3.0	C	3.4	C
16								G	3.0	C	C	C
17			1.9					2.4	2.9	3.2	C	C
18								2.3	2.8	3.2	3.5	3.6
19		1.7						2.4	2.9	3.3	3.6	3.8
20								C	3.0	3.4	3.7	6.4
21								G	3.0	C	C	C
22								2.4	3.0	3.4	3.6	3.8
23								2.4	3.0	3.4	3.6	3.8
24								2.4	3.0	3.4	3.6	3.8
25								2.5	3.0	3.4	3.6	3.7
26								2.4	3.0	3.2	3.6	3.6
27								2.3	3.0	3.3	3.5	3.8
28								2.4	2.9	3.3	3.6	3.7
Count	1	1	2				1	27	28	21	21	20
Median								2.2	2.9	3.2	3.5	3.6
Mean								2.3	2.9	3.2	3.5	3.8

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fEs
Unit Mc
Month February, 1962

TABLE 39—(Cont'd)
Ionospheric Data
75 E Mean Time

Latitude 10 2°N
Longitude 77 5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.9	3.6	C	C	4.0	2.6			1.9				1
C	C	C	C	C	C							2
3.4	3.5	3.4	3.1	2.9								3
3.4	3.3	3.2	3.1	2.8	2.4							4
3.5	3.6	3.4	3.2	2.9	2.2							5
3.6	3.7	3.4	G	G								6
3.8	3.6	3.6	3.2	3.0		2.1						7
C	3.6	C	3.1	G	G					1.5	1.6	8
3.7	3.6	C	3.1	2.8	2.3							9
3.6	3.6	3.8	3.4	3.0	6.0			2.0	1.5			10
3.6	3.5	3.4	3.2	2.8	2.3		2.8	1.7	1.7	2.1	2.6	11
3.6	3.6	3.4	3.2	2.9	2.4							12
3.5	G	C	3.4	3.1	G							13
3.9	C	3.5	3.2	3.0	2.5					1.6		14
C	3.8	C	C	C	2.6							15
C	C	C	C	3.0								16
C	C	C	3.6	3.6								17
3.6	3.8	G	G	3.0	2.7						1.6	18
3.8	G	G	G	3.3	2.9							19
3.9	3.8	G	G	G	2.6							20
3.8	3.8	G	G	3.0	2.5							21
3.8	3.7	3.7	4.8	3.0	2.6							22
3.8	3.8	3.7	3.5	3.2	2.6							23
3.9	3.8	3.7	3.5	3.1	2.6							24
3.8	3.7	3.6	3.4	3.0	2.6							25
3.8	3.8	3.6	3.3	3.0	2.6							26
3.8	3.9	3.8	3.7	G	2.6					2.2		27
B	3.7	3.6	3.6	3.1	2.5							28

21	24	20	24	26	22	1	1	3	2	4	3	Count
3.8	3.6	3.4	3.2	3.0	2.6							Median
3.7	3.7	3.6	3.4	3.1	2.5							Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fbEs
Unit Mc
Month February, 1962

TABLE 39—(Contd)
Ionospheric Data
75° E Merid Time

Latitude 10 2 N
Longitude 77 5 E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								G	G	G	G	G
2								2.6	3.0	3.4	3.5	3.5
3								2.8	3.1	3.4	3.5	3.5
4							G	2.6	2.9	3.3	3.4	3.5
5								2.6	3.0	3.2	3.5	3.5
6							1.6	2.5	2.9	3.2	3.4	3.6
7								G	3.1	3.4	3.6	3.7
8								2.5	3.0	C	C	C
9								2.7	C	C	C	C
10							G	2.6	3.0	3.3	3.5	3.6
11							G	2.6	3.0	3.2	3.5	3.5
12								2.6	3.0	3.2	3.4	3.5
13							1.8	2.5	2.9	3.2	3.4	3.5
14								2.8	C	C	C	C
15			2.1				G	2.5	C	C	3.5	C
16							G	G	C	C	C	C
17								2.7	3.0	C	C	C
18								2.6	3.0	3.4	3.8	3.7
19							G	2.7	3.1	3.6	4.0	3.8
20							C	C	3.2	3.6	3.7	3.9
21								2.7	3.2	3.4	C	3.8
22							G	2.7	3.2	3.5	3.8	3.8
23							G	2.7	3.2	3.5	3.7	3.8
24								2.7	3.2	3.6	3.7	4.0
25								2.7	3.2	3.5	3.7	3.8
26								2.7	3.1	3.5	3.7	3.9
27								G	3.2	3.6	3.8	3.9
28							G	2.7	3.1	3.5	3.7	3.9
Count		1					11	27	24	21	21	20
Median							G	2.6	3.1	3.4	3.6	3.8
Mean								2.6	3.1	3.4	3.6	3.7

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic f_oF₂
 Unit Mc
 Month February, 1962

TABLE 39 (Cont'd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

24	25	23	24	26	14	1	2	1	3	3	2	Count
3.7	3.6	3.4	3.0	2.8	2.0							Median
3.7	3.6	3.4	3.3	2.8	2.2							Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic f_{min}
 Unit Mc
 Month February, 1962

TABLE 40
 Ionospheric Data
 75°E Mean Time

Latitude 10 2°N
 Longitude 77 5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	17	18	14	15	13	12	13	16	18	12	24	40
2	13	11	13	11	13	E	E	16	16	C	C	C
3	12	11	16	17	13	11	14	22	24	22	24	26
4	16	16	16	14	13	E	16	11	16	21	22	26
5	13	14	15	16	14	13	12	16	16	18	20	23
6	14	10	11	13 ^{us}	16	12	11	15	15	19	22	22
7	17	14	16	23	14	12	12	19	22	24	27	28
8	17	12	13	13	17	E	17	16	16	C	C	C
9	16	14	11	15	15	E	14	14	18	C	C	C
10	16	15	16	16	12	E	10	14	15	16	20	21
11	14	15	18	14	15	E	10	14	15	19	20	23
12	11	13	15	14	15	13	15	14	17	18	21	23
13	13	14	14	12	S	E	E	14	15	18	21	23
14	15	16	15	16	11	E	13	18	C	C	C	C
15	17	C	20	16	16	17	16	16	20	C	26	C
16	13	12 ^{uc}	16	C	13	10	12	17	20	C	C	C
17	13	15	12	C	11	11	15	17	21	24	C	C
18	17	15	17	15	15	12	15	16	17	23	24	26
19	13	16	16	18	15	12	14	17	22	24	26	31
20	C	C	C	C	C	C	C	C	23	27	29	50
21	15	16	16	16	14	13	21	20	19	C	C	C
22	16	16	15	16	16	14	13	18	19	24	26	26
23	17	14	14	15	14	11	13	16	18	20	24	25
24	14	15	14	14	12	E	15	17	17	21	26	26
25	S	16	17	18	16	13	E	17	15	20	26	26
26	15	15	14	15	15	13	15	17	18	20	24	26
27	17	16	17	18	S	S	16	16	17	22	24	24
28	17	16	16	15	15	13	18	15	18	24	24	24

Count	26	26	27	25	25	26	27	27	27	21	21	20
Median	15	15	15	15	14	12	14	16	18	21	24	26
Mean	15	14	15	15	14	12	14	16	18	21	24	27

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fmin
Unit Mc
Month February, 1962

TABLE 40
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.7	2.6	C	C	2.1	2.0	1.7	1.7	1.5	1.6	1.7	1.5	1
C	C	C	C	C	C	1.8	F	2.2r	1.8	2.0	1.2	2
C	2.2	2.2	2.2	2.0	2.3	1.6	1.6g	S	S	1.7	1.3	3
2.4	2.3	2.2	2.0	1.5	1.7	1.5	1.6	1.6	1.5	1.6	1.5	4
2.4	2.3	2.3	2.2	1.6	1.6	1.5	1.5	1.6	1.6	1.3	1.3	5
2.0	2.3	2.0	2.0	2.4	2.5	1.6	2.1	1.7	1.8	2.1	2.0	6
2.8	2.7	2.6	2.6	2.5	2.5	1.3	1.6	1.9	1.6	1.6	1.5	7
C	2.6	C	2.3	2.3	1.7	1.4	1.4	1.5us	1.2	1.4	1.5	8
2.8	2.7	C	1.9	1.6	1.4	1.5	1.3	1.4us	1.4us	1.5us	1.4us	9
2.5	2.4	2.0	2.1	1.8	1.6	1.6	1.5	1.5	1.3	1.5us	1.6	10
2.4	2.4	2.2	2.2	1.9	1.6	1.5	1.3	1.5	1.5	1.1	1.0	11
2.2	2.3	2.0	2.0	1.5	1.6	1.5	1.6	1.8	2.0	1.8	1.4	12
2.4	2.5	C	2.6	2.4	2.0	1.8	1.8	2.0	2.0	1.6	1.6	13
2.7	C	2.7	2.4	2.3	2.2	2.2	2.0	2.0	1.7	1.6	2.0	14
C	2.6	C	C	C	1.9	1.5	1.2	1.6	1.2	1.7	1.3	15
C	C	C	C	2.6	2.5	2.4	1.6	1.7	2.1	2.2	2.4	16
C	C	C	2.2	2.4	2.5	1.8	1.9	1.7	1.6	1.9	1.6	17
2.7	2.8	2.8	2.8	2.4	2.3	2.4	1.3	1.8	1.8	1.9	1.2	18
2.8	2.8	3.0	3.6	2.8	2.3	2.0	1.3	1.6	C	C	C	19
3.1	3.0	3.0	2.8	2.4	2.0	2.0	1.8	2.2	1.8	1.7	1.6	20
2.6	2.4	3.5	2.6	2.0	1.8	2.0	1.5	1.4	1.8	1.8	1.7	21
2.6	2.6	2.6	2.6	2.0	1.9	1.7	1.5	1.3	1.9	1.7	1.8	22
2.6	2.6	2.6	2.6	2.3	1.9	1.7	1.6	1.7	1.6	1.8	1.6	23
2.5	2.6	2.8	2.6	2.1	1.8	C	S	S	S	S	1.4	24
2.5	2.6	2.2	2.2	2.0	1.6	1.5	S	S	1.6	1.7	1.5	25
2.6	2.6	2.5	2.4	2.0	1.7	1.7	1.6	1.6	1.7	1.5	1.8	26
2.6	2.7	2.4	2.4	2.4	2.1	2.3	1.9	1.7	1.5	1.7	2.0	27
5.6	2.6	2.4	2.2	2.1	2.2	1.8	1.6	1.5	1.5	1.5	1.6	28
2.2	2.4	2.0	2.4	2.6	2.7	2.7	2.5	2.5	2.5	2.6	2.7	Count
2.6	2.6	2.4	2.4	2.1	1.9	1.7	1.6	1.6	1.6	1.7	1.5	Median
2.8	2.6	2.5	2.4	2.1	2.0	1.8	1.6	1.7	1.6	1.7	1.6	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic fmin
Unit Mc
Month February, 1962

TABLE 40 (Cont'd)
Ionospheric Data
75' E Mean Time

Latitude 10 2°N
Longitude 77 5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	15	16	14	14	12	12	16	18	20	24	25	27
2	11	12	13	14	10	E	18	15	18	C	C	C
3	10	12	17	15	16	17	11	22	24	22	28	C
4	16	16	16	13	E	E	15	16	17	20	22	26
5	13	15	14	16	14	10	17	13	17	19	22	22
6	11	11	10	12	E	10	13	16	16	19	20	22
7	16	16	11	15	11	11	19	18	24	25	28	28
8	13	13	19	19	E	E	25	15	19	C	C	C
9	11	17	13	14	E	E	19	19	C	C	C	C
10	15	15 _{us}	12	15 _{us}	F	E	14	15	16	17	21	24
11	15	14	15	15	15	E	14	16	17	20	23	23
12	11	16	16	15	15	15	18	16	17	19	20	22
13	15	11	13	14	14	E	14	16	16	20	23	24
14	18	16	17	13	14	E	19	19	C	C	C	C
15	16	C	17	16	17	17	16	17	C	C	26	C
16	16	12	15	14	10	10	14	20	C	C	C	C
17	16	17	16	S	12	14	18	16	22	C	C	C
18	18	14	15	16	15	12	14	16	21	22	25	26
19	11	17	18	18	18	11	16	17	22	24	40	30
20	C	C	C	C	C	C	C	C	26	26	30	33
21	18	16	18	14	14	E	26	18	22	22	C	32
22	16	15	16	16	15	10	16	19	19	24	26	26
23	14	13	15	15	15	11	14	17	19	24	24	28
24	15	13	14	14	13	12	20	17	20	24	24	25
25	17	16	16	17	14	E	20	15	17	23	25	26
26	16	14	15	16	14	12	20	17	20	24	25	26
27	16	15	16	S	S	16	20	15	18	22	25	26
28	18	16	13	15	16	15	15	16	19	24	24	26

Count	27	26	27	25	26	27	27	27	24	21	21	20
Median	15	15	15	15	14	10	16	16	19	22	25	26
Mean	15	15	15	15	14	13	17	17	19	22	25	26

Sweep 10 Mc. to 250 Mc in 27 seconds

Characteristic fmin
Unit Mc
Month February, 1962

TABLE 40—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
2.6	2.4	C	C	2.6	1.9	1.8	1.5	1.6	1.6	1.5	1.3	1
C	C	C	C	C	1.9	1.6	F	2.4	1.6	1.7	1.2	2
2.2	2.3	2.2	2.2	2.0	2.2	1.6	F	1.8	1.7	1.6	1.5	3
2.4	2.4	2.1	1.7	1.5	1.3	1.4	1.5	1.6	1.6	1.5	1.5	4
2.3	2.2	2.3	1.9	1.7	1.5	1.4	1.6 _{US}	S	1.4	1.5	1.4	5
2.2	1.9	2.1	2.5	2.8	2.1	1.8	1.8	1.8	1.9	2.2	1.4	6
2.9	2.6	2.6	2.4	2.7	2.1	2.2	1.9	1.6	1.8	1.2	1.3	7
C	2.6	2.5	2.3	2.6	1.7	1.3	1.0	1.6	1.5 _{US}	1.2	1.4	8
2.6	2.6	2.0	1.7	1.5	1.1	1.2	1.5	1.4 _{US}	1.3 _{US}	1.5 _{US}	1.1	9
2.4	2.2	2.2	1.9	1.6	1.4	1.5	1.4 _{US}	1.4	1.6	1.4 _{US}	1.5	10
2.4	2.3	2.3	2.1	1.7	1.6	1.3	1.2	1.5	1.1	1.1	1.3	11
2.3	2.1	2.0	1.8	1.3	1.5	1.5	1.6	1.7	2.2	1.4	1.3	12
2.4	2.5	2.6	2.5	2.2	2.1	1.6	1.7	2.3	1.8	1.8	1.3	13
2.6	2.5	2.7	2.5	2.3	2.5	1.9	2.1	1.8	2.0	2.0	2.0	14
2.6	2.6	C	C	2.2	1.6	1.2	1.8	1.6	1.3	1.7	1.7	15
C	C	C	C	2.6	2.2	1.7	1.5	1.9	1.9	2.1	1.6	16
C	C	C	2.7	2.2	2.2	1.4	2.2	1.7	1.8	1.6	1.6	17
2.7	2.8	2.8	2.9	2.2	2.5	1.9	1.9	1.8	1.9	2.0	1.5	18
2.6	3.0	3.0	2.5	2.3	2.4	1.6	1.5	C	C	C	C	19
3.1	3.2	3.0	2.5	2.6	2.2	1.9	1.8	1.8	1.6	1.6	1.7	20
2.6	2.8	2.8	2.4	2.0	2.1	1.5	1.6	1.9	2.2	1.6	1.5	21
2.8	2.6	2.6	2.4	2.0	1.6	1.6	1.5	1.6	1.8	1.9	1.8	22
2.6	2.6	2.6	2.5	2.2	2.2	1.5	1.7	1.7	1.7	1.9	1.2	23
2.6	2.6	3.0	2.2	1.8	S	1.5	S	S	S	1.6	S	24
2.4	2.4	2.3	2.0	1.7	1.8	S	S	S	1.5	1.5	1.6	25
2.5	2.5	2.4	2.4	1.8	1.6	1.8	1.7	1.6	1.6	2.6	1.9	26
2.6	2.4	2.4	2.5	2.3	2.3	2.1	1.6	1.5	1.6	1.7	1.9	27
2.7	2.8	2.3	2.2	2.3	2.1	1.5	1.5	1.6	1.5	1.6	1.0	28
2.4	2.5	2.3	2.4	2.7	2.7	2.7	2.4	2.4	2.6	2.7	2.6	Count
2.6	2.5	2.4	2.4	2.2	2.1	1.6	1.6	1.6	1.6	1.6	1.5	Median
2.5	2.5	2.5	2.3	2.1	1.9	1.6	1.6	1.7	1.7	1.7	1.5	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic 'h'F2
Unit Km
Month February, 1962

TABLE 41
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									280	300	320	340
2								L	295	C	C	C
3								L	L	360	360	390
4							L	L	L	L	340	L
5								L	L	L	345	L
6							L	L	L	L _R	L	L
7								L	L	L	L	400
8								L	L	C	C	C
9								L	L	C	C	C
10								L	L	L	360	370
11									L	320	340	385
12									295	320	L	350
13									L	L	320	325
14									L	C	C	C
15									L	C	285	C
16									L	C	C	C
17									L	L	C	C
18									L	L	300	L
19							L	L	L	L	330	315
20								C	L	L	L	L
21							L	L	L	C	C	C
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
Count									3	5	10	8
Median										320	335	360
Mean										320	335	360

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic · h'F2
 Unit Km
 Month February, 1962

TABLE 41
 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
330	340	C	C	L	L							1
C	C	C	C	C	C							2
C	320	390	330	L	L							3
L	L	380	L	L	L							4
L	L	L	L	300	L							5
355	L	L	L	L								6
LH	LH	L	L	L								7
C	L	C	L	L	L							8
375	L	C	L	L	L							9
340	360	L	L	L	A							10
345	350	360	1	L	L							11
350	L	345	L	L	L							12
340	340	C	L	L	L							13
L	C	L	L	L	L							14
C	330	C	C	C								15
C	C	C	C	L								16
C	C	C	300	L								17
320	315	345	315	300								18
320	330	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
360	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
B	L	L	L	L	L							28
<hr/>												
10	8	5	3	2								Count
<hr/>												
340	335	360										Median
<hr/>												
345	335	365										Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic h'F2
 Unt Km
 Month February, 1962

TABLE 41—Contd
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	290	300	330	330
2							L	L	300	C	C	C
3								L	330	360	380	C
4							L	L	L	L	L	380
5								L	L	L	335	L
6							L	L	L	LH	355	360
7								L	L	315	375	385
8								L	L	C	C	C
9								L	C	C	C	C
10								L	L	350	360	360
11								L	L	320	335	360
12								280	300	330	L	400
13									330	L	L	330
14								L	C	C	C	C
15								L	C	C	300	C
16									C	C	C	C
17								L	L	C	C	C
18								L	320	L	320	325
19							L	L	L	320	330	320
20								C	L	L	L	335L
21							L	L	L	L	C	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
Count								1	6	7	10	11
Median									310	320	335	360
Mean									310	330	340	355

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'F2
Unit Km
Month February, 1962

TABLE 41—(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	C	C	L								1
C	C	C	C	C								2
350	400	395	340	L	L							3
L	L	L	L	L	L							4
L	L	L	L	L	L							5
L	355	320	L	L								6
375 _{min}	L	L	L	L								7
C	L	365	L	L								8
380	L	L	L	L								9
355	370	380	365	L								10
350	345	350	L	L								11
350	360	L	L	L								12
315	340	350	L	L								13
360	L	L	L	L								14
315	320	C	C	L								15
C	C	C	C	L								16
C	C	C	C	L								17
L	L	315	310	L								18
320	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
330	L	L	L	L	L							28

11	7	7	3									Count
350	355	350										Median
345	355	355										Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'F
 Unit Km
 Month February, 1962

TABLE 42
 Ionospheric Data
 75°E Mean Time

Latitude 10 2°N
 Longitude 77 5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	260	220	F	220	220	240	255	240	220	220	200	215
2	240	230	220	240	240	250	270	240	220	C	C	C
3	240	220	230	240	250	260	280	240	230	220	210	200
4	215	220	220	220	260	E	280	245	220	205	200	195
5	240	225	235	235	245	245	265	240	225	220	205	200
6	230	235	225	230	240	260	275	240	220	210	200	195
7	250 _r	240 _{UF}	230 _F	230	235	260	275	250	235	225	225	215
8	240	240	220 _{UF}	240	270	E	300	240	220	C	C	C
9	240	240	220	225	245	E	280	240	220	C	C	C
10	240	220	210	210 _F	240	250	270	240	220	185 _{it}	180 _{it}	210
11	230	220	200	225	270	E	310 _{UA}	240	220	220	200	200 _{it}
12	240	220	205	240	260 _{ut}	280	265	245	220	210	210	210
13	225	235	220	235	S	310	300	240	210	200	200	180 _{it}
14	220	220	215	230	235	R	275	230	220	C	C	C
15	260 _F	C	220	230	250	300 _{ut}	300	240	220	C	200	C
16	240	220	225	235	245	245	280	240	225	C	C	C
17	240	240	265	265	260	275	300 _{it}	240	225	220	C	C
18	260	235	230	230	230	235	280	235	220	210	200	195
19	225	225	215	235	255	240	280	240	220	210	200	200
20	C	C	C	C	C	C	C	C	220	220	205	B
21	210	215	220	220	240	280	300	240	230	C	C	C
22	240	235	235	250	230	235	280	245	230	220	200	200
23	225	220	220	220	230	270	285	240	230	220	205	200
24	225	240	220	250	250	245	270	250	230	230	225	210
25	S	220	225	240	250	240	300	250	230	225	220	210
26	220	210	220	220	240	240	270	240	225	220	210	210
27	230	220	230	S	S	S	260	240	230	220	215	205
28	230	240	245	260	240	240	260	250	230	220	200	210

Count	26	26	26	26	25	25	27	27	28	21	21	19
Median	240	220	220	230	245	260	280	240	220	220	200	200
Mean	235	225	225	235	245	255	280	240	225	215	205	205

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'F
Unit Km
Month February, 1962

TABLE 42
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
200	200	C	C	A	240	270	300	280	255	240	240	1
C	C	C	C	C	C	280	F	370	300	250	250	2
C	180	190	180	220	225	270	320r	F	F	F	F	3
190	180	180H	195	200	240	270	360	F _s	300	260	240	4
200	220	200H	185H	225	225	280	325	240UF	245	240	225	5
200	200	195H	195H	220	240	270	315	320	320UF	F	300UI	6
200H	195H	200	200	230	245	280	330	330UF	F	F	250r	7
C	190	C	210	195	235	265	270	260	250UF	250	245	8
200	195	C	195	190	240	275	355	420UF	F	F	235r	9
200	200	200	200H	220	A	260	280	310UI	270UF	F	250	10
200H	180H	200	200	200	230	250	290UA	320	F	260UI	260	11
200	200	185	190	190H	240	270	300	300	250	245	230	12
180H	175H	C	200H	215	240	260	320	F	F	240r	240	13
200	C	200	180H	200	240H	270	330	340UI	F	320	F	14
C	200	C	C	C	C	235	345	300UI	240	245	235	15
C	C	C	C	220	240	270	360	415	330	245	250	16
C	C	C	205	A	220H	280	320UI	260UF	300	260	245	17
185	180H	195	200H	200H	245	270	340	275	290r	235r	225	18
195	180H	195	240	230	245	280	360	360r	C	C	C	19
195	180	200	210	215	235	280	380	F	F	F	240	20
200	200	190	200	200	250	280	320	F	260	F	260	21
200	200	200	A	220	255	280	300	F	F	220	225	22
200	200	200	215	215	240	280	360r	F _s	F _s	F _s	240	23
200	210	200	200	230	245	280	S	S	S	S	220	24
200	200	200	220	200	250	300	S	S	260	240	225	25
200	200	200	200	220	250	260	310	320	300	240	220	26
200	200	200	220	235	250	300	310	300	300	265	240	27
B	210	205	200	230	250	280	300	300	230	225	235	28
21	24	20	23	24	26	28	25	19	17	18	25	Count
200	200	200	200	220	240	270	320	310	270	245	240	Median
195	195	195	200	220	240	275	325	315	275	250	240	Mean

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

Characteristic h'F
 Unit Km
 Month February, 1962

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

Latitude 10°2'N
 Longitude 77°5'E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	240	220	220	220	235	F	250	225	220	200	200	200
2	240	220	240	240	240	240	255	235	215	C	C	C
3	220	220	235	245	260	300	260	240	220	210	205	C
4	205	220 _F	220	250	E	E	250	235	215	200	190	200
5	225	220	255	230	235	255	260	235	215	215	205	200
6	230 _{UF}	235	230	240	240	260	260	235	200	200	200	200
7	240 _F	240 _F	215	230	250	260	260	240	230	220	220	215
8	240	220	260	260	E	E	255	235	220	C	C	C
9	240	230	220	235	E	E	255	235	C	C	C	C
10	235 _F	210	210 _F	235	240	250	255	220	200 _H	180 _H	180 _H	200
11	230	210	200	250	300	E	250	230	215	210	200 _H	195 _H
12	240	220	225	260	285	285	255	235	220	210	210	200
13	220	230	230	245	300	355	255	225	200	200	180 _H	180 _H
14	230	215	215	240	260	R	250	230	C	C	C	C
15	240 _{UF}	C	220	260	270 _{UF}	280 _{UF}	270	230	C	C	200	C
16	230	225	225	245	240	265	250	230	C	C	C	C
17	230	260	290	250	270	270	260	230	220	C	C	C
18	235	235	235	225	230	240	250	230	215	205	200	195
19	225	220	220	240	240	255	255	220	210	205	215	195
20	C	C	C	C	C	C	C	C	220	210	200	200
21	210	220	225	230	F	E	260	235	220	220	C	200
22	235	235	240	240	230 _F	250 _F	260	240	220	210	210	200
23	220	220	220	220	240	260 _F	260	240	225	215	200	200
24	235	230	240	250	245	260	260	240	230	230	210	200
25	310	230	240	240	260	260	260	230	210	220	220	200
26	220	220	220	240	240	240	255	240	230	220	205	200
27	220	220	240	S	S	280	260	235	220	210	210	200
28	225	240	260	245	240	230	260	240	230	215	210	200
Count	27	26	27	26	25	25	27	27	24	21	21	20
Median	230	220	225	240	240	260	255	235	220	210	205	200
Mean	230	225	230	240	250	265	255	235	220	210	205	200

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'F
Unit Km
Month February, 1962

TABLE 42—(Contd)
Ionospheric Data
75 E Mean Time

Latitude . 10 2°N
Longitude 77 5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
195	200	C	C	235	260	295	280	275	260	250	230	1
C	C	C	C	C	260	320	F	330	275	260	240	2
180	180	185	205	230	260	290	F	F	F	F	220	3
190	180	195	200	220	250	310	F _s	F _s	F _s	260	240	4
200	205	200	215	225	260	300	F	F	255	225	235	5
195	195	180 _u	215	230	260	300	320 _{ur}	340 _{ur}	F	260 _{ur}	230	6
200	200	200	200 _H	225	260	300	340 _{ur}	F	270 _{ur}	240	235 _{ur}	7
C	185	200	200	230	255	270	270	250 _{ur}	245 _i	250	240	8
195	190	200	200	200	250	300	400 _i	F	F	F	250 _F	9
200	200	200	A	225	255	265	300 _F	300	F	240 _i	235	10
190 _{ur}	195	200	200	200	245	270	295 _{uA}	335 _F	300 _{ur}	245	245	11
200	185	180 _H	200	225	260	270	300	260	260	240	225	12
180 _H	210	220	205 _H	215	245	280	365 _F	F	240 _i	240	220	13
200 _H	200	190	200 _H	240	260	290	360	F	320 _{ur}	F	270 _{ur}	14
195	195	C	C	225	250	305	380 _F	240	240	240	240	15
C	C	C	C	220	255	310	405	385	260	240	240	16
C	C	C	A	235	255	315	F	F	305	260	255	17
190	180 _H	195	200 _H	225	255	300	280	300	320	240	220	18
185	200 _H	200	235	215	270	320	375	C	C	C	C	19
190	180 _H	200	205	240	260	315	F	F	F	260	205	20
200	200	200	210	220	265	300	F	F	F	240 _i	250 _F	21
200	200	200	210	235	260	300	300 _i	F	240	220	220	22
200	200	210	215	235	260	315	F _s	F _s	F _s	F _s	240	23
200	200	200	230	225	260	315	S	S	S	220	S	24
200	200	200	200	235	250	S	S	S	240	230	220	25
200	200	200	200	240	260	300	320	320	250	240	220	26
200	200	200	220	240	270	300	300	310	280	250	240	27
210	200	200	240	240	260	300	300	260	230	230	240	28
24	25	23	22	27	28	27	18	13	19	22	26	Count
200	200	200	205	225	260	300	310	300	260	240	240	Median
195	195	200	210	225	260	300	325	300	270	240	235	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic h'E
Unit Km
Month February, 1962

TABLE 43
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

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

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

Characteristic h'E
Unit Km
Month February, 1962

TABLE 43
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

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

2	3	4	9	13	7	Count
			115	120	120	Median
			115	120	120	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'E
Unit Km
Month February, 1962

TABLE 43—(Contd)
Ionospheric Data
75°E Mean Time

Latitude . 10 2°N
Longitude . 77 5°E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'E
Unit Km
Month February, 1962

TABLE 43—(Contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
 Unit Km
 Month February, 1962

TABLE 44
 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								G	G	G	G	G
3								G	115	C	C	C
4						100		120	120	110	120	120
5								100	100	100	100	100
6								100	100	100	100	100
7							145	G	105	100	100	100
8								G	105	105	100	100
9								130	105	C	C	C
10								G	110	C	C	C
11								145	105	100	100	100
12	100						100	105	100	100	100	100
13								G	100	100	100	100
14								100	100	100	100	100
15				110				G	100	C	C	C
16								G	100	C	100	C
17				110				G	100	C	C	C
18								110	105	100	C	C
19								105	100	100	100	100
20		110						100	100	100	100	100
21								C	100	100	100	100
22								G	100	C	C	C
23								100	100	100	100	100
24								100	100	100	100	100
25								100	100	100	100	100
26								100	100	100	100	100
27								100	100	100	100	100
28								100	100	100	100	100

Count	1	1	2			1	2	17	27	20	20	19
Median								100	100	100	100	100
Mean								105	105	100	100	100

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

TABLE 44
 Ionospheric Data
 75°E Mean Time

Characteristic h'Es
 Unit Km
 Month February, 1962

Latitude 10 2°N
 Longitude 77 5°E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
 Unt Km
 Month February, 1962

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							125	G	G	G	G	G
2								160	110	C	C	C
3								130	120	120	115	C
4							G	100	100	100	100	100
5								100	100	100	100	100
6							140	105	100	100	100	100
7								G	105	100	100	100
8								105	105	C	C	C
9								110	C	C	C	C
10							G	110	100	100	100	100
11							G	105	100	100	100	100
12								100	100	100	100	100
13							125	105	100	100	100	100
14								105	C	C	C	C
15			110				G	110	C	C	100	C
16							G	G	C	C	C	C
17								105	100	C	C	C
18			125				110	105	100	100	100	100
19							G	100	100	100	100	100
20								C	100	100	100	100
21								100	100	100	C	100
22							G	100	100	100	100	100
23							G	100	100	100	100	100
24								100	100	100	100	100
25								100	100	100	100	100
26								100	100	100	100	100
27								G	100	100	100	100
28							G	100	100	100	100	100
Count			2				4	23	23	20	20	19
Median								105	100	100	100	100
Mean								105	100	100	100	100

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
 Unit Km
 Month February, 1962

TABLE 44—Contd
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77° 5° E

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

24	22	19	17	24	12	2	2	1	4	3	2	Count
100	100	100	100	100	115							Median
100	100	100	100	105	115							Mean

Sweep 1 0 Mc to 25.0 Mc in 27 seconds

Characteristic (M 3000) F₂
 Unit —
 Month February, 1962

TABLE 45
 Ionospheric Data
 75°E Mean Time

Latitude 10°2' N
 Longitude 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	F	F	F	3 40	3 20	3 05	3 35	3 35	3 20	3 10	2 95
2	3 20	3 30	3 30t	3 40	3 30	S	3 10	3 20	3 10	C	C	C
3	F	3 30	3 35	F	3 35	3 30	3 15	3 00	2 65	2 60	2 60	2 60
4	F	F	F	3 50	3 25	E	3 05	3 10	2 70	2 65	2 65	2 55
5	F	F	F	F	3 20	3 15	2 80	2 95	2 60	2 70	2 50	2 50
6	F	F	3 50ur	3 50	3 50	3 50	3 10	3 30us	2 80	2 60	2 50	2 55
7	3 30ur	F	F	3 10f	3 50	3 50	3 00	3 30	3 10	2 90	2 45	2 30
8	3 30	3 30uf	3 40uf	3 30r	3 50	E	3 15	3 30	3 00	C	C	C
9	3 40	3 40	3 50	3 45	3 50	E	3 20	3 45	3 15	C	C	C
10	3 20uf	3 40uf	3 30us	F	3 40	3 50	3 40	3 20	2 90	2 50	2 60	2 60
11	F	3 40us	3 45	3 40	3 25	R	3 35	3 05	2 85	2 75	2 75	2 50
12	3 40us	F	3 40us	3 35us	F	F	F	3 35	3 25	2 90	2 45	2 50
13	3 30	3 35	3 50	3 50	3 35ur	3 10	2 95	3 10	2 80	2 70	2 80	2 75
14	F	3 35	3 45	3 40	3 40	R	3 20	3 20	3 00c	C	C	C
15	F	C	3 30uf	F	F	F	F	3 10	3 00	C	2 70	C
16	F	F	S	S	3 05	3 25	2 95ur	3 25	3 20	C	C	C
17	3 05us	S	3 15	C	F	3 00	2 85	2 80	2 85	2 60	C	C
18	F	F	F	F	F	F	3 20uf	3 05	2 85	2 75	2 70	2 70
19	F	F	F	F	F	3 40	3 10	3 10	2 80	2 60	2 60	2 75
20	C	C	C	C	C	C	C	C	2 75	2 70	2 70	2 65
21	F	F	F	3 60	F	3 20	3 05	3 20	2 90	C	C	C
22	F	F	F	F	F	3 35	3 05	3 00	2 75	2 40	2 50	2 55
23	3 40	3 30	3 35	3 30	3 20	F	3 15	3 05	2 70	2 50	2 55	2 55
24	3 35	S	S	3 15	S	3 40	S	3 05s	2 70	2 50	2 50	2 50
25	S	S	S	S	S	3 15	3 10	3 10	2 70	2 50	2 50	2 45
26	3 30us	3 40s	3 50us	3 40us	3 40us	3 40s	S	3 20s	2 90	2 55	2 50	2 50
27	S	S	S	S	S	S	S	2 95us	2 80	2 50	2 45	2 50
28	S	S	S	S	S	3 40s	S	3 15us	2 85	2 55	2 55	2 50

Count	11	10	14	14	16	16	21	27	28	21	21	20
Median	3 30	3 35	3 40	3 40	3 40	3 30	3 10	3 10	2 85	2 60	2 55	2 55
Mean	3 30	3 35	3 40	3 40	3 35	3 30	3 10	3 15	2 90	2 65	2 60	2 55

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic (M 3000) F2
 Unit —
 Month February, 1962

TABLE 45
 Ionospheric Data
 75°E Mean Time

Latitude 10 2' N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2 80	2 70	C	C	2 65	2 75	2 65 ^{US}	2 60	2 60 ^{US}	2 60	2 90	3 15	1
C	C	C	C	C	C	2 60	F	F	F	F	F	2
C	2 65	2 55	2 50	2 65	2 70	2 75	2 40	F	F	F	F	3
2 50	2 50	2 50	2 50	2 45	2 60	2 60	2 25 ^F	F ^s	F ^s	F ^s	F ^s	4
2 50	2 55	2 60	2 65	2 60	2 40	2 30	2 25	F	F	F	3 25 ^{UF}	5
2 60	2 60	2 80	2 95	2 80	2 80	2 60	2 45	2 45	F	F	F	6
2 40	2 50	2 40	2 50	2 55	2 60	2 70	2 60	F	F	F	3 40 ^{UF}	7
C	2 50	C	2 60	2 70	2 90	2 85	2 80	2 90	3 10	3 25	3 40	8
2 50	2 50	C	2 40	2 60	2 70	2 80	2 60 ^{US}	F	F	F	F	9
2 40	2 60	2 45	2 40	2 50	2 70	3 00 ^{US}	2 80	2 70 ^r	F	F	F	10
2 50	2 65	2 70	2 60	2 45	2 65	2 75	2 65	2 55	F	F	3 20	11
2 35	2 50	2 50	2 50	2 50	2 55	2 75	2 70	S	2 95	3 05 ^{US}	3 20	12
2 75	2 70	C	2 50	2 25	2 30	2 70	2 60	F	F	F	F	13
2 50	C	2 45	2 50	2 45	2 55	2 60	2 55	F	F	F	F	14
C	2 75	C	C	C	2 60	2 65	2 40	F	3 00	F	F	15
C	C	C	C	2 50	2 65	2 70	2 50	2 40	2 70 ^t	3 10	3 15	16
C	C	C	2 85	2 80	2 75	2 60	F	F	F	F	F	17
2 80 ^r	2 80	2 80	2 85	2 80	2 80	2 80	2 55	2 30	F	F	F	18
2 80	2 80	2 80	2 80	2 80	2 80	2 40 ^{JR}	2 55	2 60	C	C	C	19
2 70	2 70	2 75	2 80	2 80	2 70	2 30 ^{JR}	F	F	F	F	F	20
2 65	2 75	2 75	2 80	2 70	2 70	2 40	F	F	F	F	F	21
2 50	2 50	2 55	2 55	2 55	2 45	2 30	2 30	F	F	3 30	3 40	22
2 60	2 50	2 50	2 45	2 45	2 50	2 45	2 30 ^{F_s}	F _s	F _s	F _s	F _s	23
2 40	2 45	2 35	2 40	2 40	2 40	2 40	2 50 ^{US}	S	S	S	3 35 ^s	24
2 45	2 50	2 40	2 40	2 45	2 40	2 40	S	S	2 95	S	3 10	25
2 55	2 50	2 45	2 45	2 45 ^{US}	2 50 ^{US}	2 50 ^s	2 40 ^{US}	2 40	2 70 ^s	3 00	3 20 ^{US}	26
2 50	2 65	2 65	2 70	2 80 ^s	2 80	2 70 ^s	2 50 ^s	2 55 ^{US}	2 65 ^{US}	2 85 ^{US}	S	27
2 45	2 55	2 60	2 70	2 65	2 60	2 55 ^s	2 45 ^s	2 60 ^s	2 90 ^s	3 30 ^s	3 20 ^s	28
22	24	20	24	26	27	28	22	9	9	8	12	Count
2 50	2 60	2 55	2 50	2 60	2 60	2 60	2 50	2 55	2 90	3 10	3 20	Median
2 55	2 60	2 60	2 60	2 60	2 60	2 60	2 50	2 55	2 85	3 10	3 25	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic (M 3000) F2
 Unit —
 Month February, 1962

TABLE 45—Contd
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic (M 3000) F2
 Unit —
 Month February, 1962

TABLE 45—(Contd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2°N
 Longitude 77 5°E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foF2
Unit Mc
Month March, 1962

TABLE 46
Ionospheric Data
75 E Mean Time

Latitude 10 2' N
Longitude 77 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	9.3	S	6.8	4.4 ^s	3.4 ^{us}	2.5	S	7.2	8.8	8.6	8.0	8.0
2	8.5	7.4 ^s	5.8	4.5 ^s	3.8 ^{us}	3.2	3.9 ^{us}	7.6	9.4	10.0	9.2	9.4
3	FS	FS	8.8	F	4.4 ^{us}	2.8	3.8	7.0 ^{us}	8.2	8.6	8.2	8.2
4	9.4 ^{us}	9.4	9.0	S	6.4 ^{us}	5.6	5.8 ^{us}	8.2 ^{us}	9.8	10.0	8.5	8.4
5	8.1	7.8 ^{us}	6.7	6.3 ^s	4.0 ^{us}	4.0	3.8 ^{us}	7.0	8.8	8.8	7.8	7.6
6	8.2	7.6 ^f	5.8	4.1 ⁱ	5.6 ^f	F	3.9 ^f	7.0	8.6	9.0	9.0	9.1
7	7.2	F	4.6	3.5	2.8	1.8	3.6	7.0	8.7	8.8	7.8	7.7
8	7.4 ^f	7.0	S	3.7	2.4	1.7	3.5	6.7	8.2	9.6	9.4 ^H	7.9
9	8.0	7.6	5.8	3.9	2.5	E	3.4	7.0	8.7	9.6	8.4	7.8
10	7.8	7.0 ^f	5.8 ⁱ	3.8	2.4	E	3.2	6.4	7.8	7.4	7.0	6.8
11	7.2	6.9	6.8	3.6	2.4	S	3.1	6.6	8.4	9.4	8.8 ⁱⁱ	8.4
12	8.1	8.8	8.2	5.9	4.9	3.7	3.7	7.2	8.8	10.0	10.3	9.6
13	9.2	9.2	6.8	5.0 ^s	5.2	5.0	S	7.4	9.0	10.2	10.4 ⁱⁱ	8.8
14	8.6	8.6	7.0	4.4	3.5	2.4	3.6	7.0	8.3	7.8	7.4	7.1
15	6.9	7.8	6.8	5.1	4.0	3.1	4.1	6.9	C	C	C	C
16	7.2	7.3 ^{us}	6.2	S	4.3	S	4.4	7.0	8.1	8.2	8.4	8.4
17	8.8	9.0	6.2 ^s	F	F	2.2	4.0	7.1	8.6	8.6	8.4	8.1
18	8.4	8.0	5.8	4.4	3.3	2.1	4.0	7.2	8.8	C	C	C
19	9.0	8.1	5.6	4.0	3.2	2.4	4.1	7.1	8.6	8.4	8.0	C
20	8.8	6.9	5.7	4.9	S	3.2	4.3	7.8	8.7	8.7	8.6	8.8
21	F	C	C	F	F	2.2	F	8.3	9.7	9.5	8.7	8.6
22	S	S	S	S	3.7	2.7	S	8.2	9.3	8.8	8.4	8.6
23	S	S	S	S	5.0	3.7	S	8.3	9.6 ^s	9.8	9.0	9.0
24	S	S	S	S	S	S	4.7	8.5	10.5	11.5 ^s	11.5 ^s	9.5
25	FS	FS	FS	7.2 ^s	S	2.8	4.8 ^s	8.2	C	C	C	C
26	10.5	9.8	F	6.9	5.6	3.5	5.1 ^{us}	8.3	10.3	10.5	9.4	9.6
27	F	F	C	C	C	C	C	8.1	9.3	9.3	8.9	8.8
28	FS	FS	8.3	6.3 ^{us}	4.7 ^{us}	3.2	4.8 ^{us}	8.3	9.8	10.7	9.1	8.7
29	9.3 ^{us}	8.5	7.1 ^s	6.7 ^{us}	5.5 ^{us}	5.1 ^{us}	6.3	8.5	10.1	11.1	11.6	12.1 ^H
30	10.6	10.5	10.1	8.5	7.6	4.3	4.8	7.8	9.4	9.9	9.0	8.9
31	9.1	F	7.2	6.8 ^r	6.9	F	F	9.0	10.0	C	C	8.4
Count	23	20	23	22	25	25	24	31	29	27	27	27
Median	8.5	7.9	6.8	4.7	4.0	2.8	4.0	7.2	8.8	9.4	8.7	8.6
Mean	8.5	8.2	6.8	5.2	4.3	3.2	4.2	7.5	9.0	9.4	8.9	8.6

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF2
Unit Mc
Month March, 1962

TABLE 46—(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
8 2	8 3	9 0	9 7	9 8	10 8 ^{Us}	9 8 ^{Us}	9 0 ^{Us}	9 4s	9 8 ^{Us}	9 4	8 4	1
8 4	8 6	9 4	9 9	10 8	10 8 ^{Us}	10 0	8 2	FS	FS	FS	FS	2
8 2	8 4	8 8	9 5	10 2	10 8 ^{Us}	S	8 4 ^{Us}	7 8 ^{Us}	F	8 8 ^{Us}	9 0	3
8 6	9 2	10 0	10 6	10 6	10 4	9 8	9 2	9 6 ^{Us}	9 4 ^{Us}	FS	8 6 ^{Us}	4
7 6	8 0	8 2	8 9	9 8 ^{Us}	10 2	10 4	8 5	F	F	F	F	5
10 4	10 1	10 1	9 6	9 6	9 8	9 8	10 0	10 6	10 0	9 0	8 0	6
7 8	8 4	8 7	9 2	9 7	9 7	S	8 4	8 4t	9 0	9 1	9 1	7
7 6	7 9	8 4	8 9	9 7	10 4	10 4	9 2	8 6	F	9 0 ^{Ut}	9 0	8
7 6	7 5	8 4	8 8	9 4	9 4	9 3	9 2	9 0	F	F	9 1	9
6 8	7 1	7 4	7 8	8 0	7 6	8 2	8 3	7 1	7 2	8 0	7 6	10
8 6	8 6	8 9	8 8	8 8	8 8	9 0	9 0	8 8	8 6	8 0	7 8	11
8 6	9 0	8 8	8 8	9 6	9 6	9 4	9 1	8 8	9 2	9 6	9 2	12
8 6	8 6	8 6	C	C	9 6	9 4	9 4	9 0 ^{Ut}	8 6t	9 0	9 2	13
7 2	7 6	7 8	8 4	9 0	10 4	10 0	9 4	9 2	9 0	8 8	7 0	14
C	C	8 6	9 0	C	C	C	C	10 4	10 4	8 8	7 6	15
8 4	8 6	8 6	8 8	9 2	9 1	9 4	8 5	F	F	F	F	16
8 0	8 1	8 8	9 3	10 0	10 7	11 0	10 6	10 0	10 2	F	F	17
7 9	8 2	8 8	9 4	10 2	10 5	10 2	9 0	8 6	F	10 8	9 8	18
8 4	8 8	9 5	10 2	10 6	11 2	11 2	9 8	F	F	10 9	10 6	19
8 9	9 3	9 6	10 2	10 7	11 0	11 2	F	F	F	F	11 6t	20
8 6	8 8	9 5	10 7	11 3	11 5	11 9	10 6	S	S	S	S	21
8 8	9 6	10 6	11 6	11 8	12 0	12 2s	11 0s	S	S	S	S	22
9 0	8 9	9 5	10 2	S	S	S	S	S	S	S	S	23
9 4	9 8	9 8	10 8	11 6	11 6	10 5	9 3t	S	S	S	S	24
C	C	C	C	10 2s	10 6s	S	FS	FS	FS	FS	FS	25
9 5	9 7	9 7	10 3	10 8	10 9	11 0	F	F	C	F	F	26
8 6	8 7	9 0	9 7	10 1 ^{Ut}	10 8	10 9	9 5 ^F	F	F	F	FS	27
8 7	9 0	9 4	10 0	10 8	10 8	10 0 ^{Us}	9 3 ^{Ur}	F	S	11 4	10 8s	28
12 3 ^H	11 6 ^H	11 4	11 9	12 5	12 5	12 0 ^{Us}	11 8	11 4	F	11 6	11 0 ^{Us}	29
9 1	9 8	9 4	9 7	10 8	10 3	10 3s	9 3	F	F	9 1 ^r	F	30
8 6	8 5	8 8	9 5	10 2	10 4	10 8	9 4	F	F	F	F	31
29	29	30	29	28	29	26	26	16	11	16	18	Count
8 6	8 6	9 0	9 6	10 2	10 5	10 2	9 2	8 9	9 2	9 0	9 0	Median
8 6	8 8	9 1	9 7	10 2	10 4	10 3	9 4	9 2	9 2	9 5	9 1	Mean

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

Characteristic foF2
 Unit Mc
 Month March, 1962

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

Latitude 10 2°N
 Longitude 77 5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	8.4	S	5.3s	5.8Us	2.7Us	2.3	5.6	8.1	9.0	8.2	7.8	8.0
2	7.8	6.8	4.9Us	4.2s	3.5s	2.8	6.0s	8.6	9.8	9.6	8.8	8.2
3	9.6Us	9.8Us	FS	F	3.4	3.0	5.8	8.1	8.4	8.5	8.3	8.1
4	9.2	9.4	8.4	7.8Us	F	4.6	F	9.2	10.0	9.4	8.4	8.4
5	8.0Us	7.2s	5.8Us	4.5s	5.0Us	2.9	5.8	8.4	9.4	8.1	7.7	7.7
6	6.9F	7.8F	4.8	5.6l	5.1	4.8	5.8	8.0	8.8	8.9	9.0	9.9
7	7.2	F	4.2	3.2	2.3	1.6	5.5	8.2	8.8	8.2	7.6	7.7
8	7.2	6.9	4.4	2.9	2.1	1.5	5.5	7.7	8.8	9.8	8.4	7.6
9	7.8	6.8	4.6	3.1	1.9	E	5.6	8.0	9.4	9.6H	7.9	7.6
10	8.0	6.8	5.0s	3.2	1.8	E	5.0	7.3	7.8	7.0	6.8	6.9
11	6.8	7.2	4.3s	2.8	2.2	1.8	5.5	7.6	9.2	9.4	8.2	8.6
12	8.4	9.0	6.8	5.4	4.4	2.6	5.8	8.2	9.4	10.2	10.0	8.7
13	9.7	8.4	5.4	5.4	5.2	S	6.2	8.6	9.6	10.7	9.8	8.4
14	8.4	8.0	5.6	4.2	2.8	1.9	5.4	7.9	8.2	7.6	7.2	7.2
15	7.4	7.8	5.6	4.2	3.6	2.9	6.0	8.4Us	C	C	C	C
16	7.0	6.8	5.7	4.7Us	3.8Us	3.3	5.8	7.8	8.2	8.2	8.6	8.4
17	9.0	8.2Us	F	F	2.6	1.8	6.1	8.1	8.8	8.5	8.1	8.0
18	8.2	7.0Us	4.8	4.0	2.8	1.7	6.0	8.4	9.2	C	C	C
19	8.6	6.7	4.9	3.5	2.9	2.1	6.0	8.2	8.6	8.0	C	C
20	F	6.3s	5.4t	S	3.9	2.8	6.4	8.6	8.8	8.7	8.8	8.8
21	F	C	C	F	3.3	S	6.6	9.0	9.7	9.1	8.5	8.6
22	F	9.2	7.2	S	3.0	2.7	6.8	9.2	9.3	8.6	8.5	8.7
23	F	F	FS	5.6	4.4	3.0	6.8	9.0	9.8	9.5	9.0	9.0
24	11.1	S	S	S	S	2.8	6.9	9.2	11.0	11.7	10.8	9.4
25	FS	FS	FS	6.2s	3.6	2.4s	7.0	9.2s	C	C	C	C
26	F	9.3	7.9	6.5	4.3	3.0	6.9	9.3	10.5	9.8	9.7	9.3
27	9.3	F	C	C	C	C	C	8.6	9.1	8.9	8.8	8.6
28	FS	9.2Us	7.2Us	5.4Us	3.7	2.9	6.9	8.7	10.5Us	9.9UsH	8.8	8.7
29	8.8	7.6s	6.9	S	S	5.6	7.7	9.5	10.7	11.5	11.9	12.3H
30	10.8	10.3	9.6	8.4	6.4	3.2	6.7	8.9L	9.8	9.4	8.9	9.3
31	8.9	8.8H	6.9	6.8t	F	6.2	8.0	9.2	10.6	10.6H	8.5	8.4
Count	24	24	24	23	26	28	29	31	29	28	27	27
Median	8.4	7.8	5.5	4.7	3.4	2.8	6.0	8.4	9.3	9.2	8.5	8.4
Mean	8.4	8.0	5.9	4.9	3.5	2.9	6.2	8.5	9.4	9.2	8.7	8.5

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF2
Unit Mc
Month March 1962

TABLE 46—(Contd)
Ionospheric Data
75 E Mean Time

Latitude 10 2°N
Longitude 77 5°E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foF1
Unit Mc
Month March, 1962

TABLE 47
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									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	4.8
7								L	L	L	L	L
8								L	L	4.5	L	L
9								4.5	4.9	4.4	4.5	4.6
10							L	L	4.4	4.5	4.6	4.6
11								L	L	4.5	4.5	4.6
12								L	4.3	4.5	4.5	4.7
13								L	L	4.5	4.5	4.6
14								L	4.5	4.5	4.8	4.8
15								L	C	C	C	C
16								L	L	L	4.8	4.8
17								L	L	L	L	4.8
18								L	L	C	C	C
19								L	L	L	L	C
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	C	C	C
26								L	L	L	L	L
27								L	L	L	L	4.8
28								L	L	L	L	L
29								L	L	L	L ^H	L ^{it}
30								L	L	L	L	L
31								L	L	C	C	4.9
Count								1	4	7	7	11
Median										4.5	4.5	4.8
Mean										4.5	4.6	4.7

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foF1
Unit Mc.
Month March, 1962

TABLE 47—(Contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	4.9	L	A	L								4
4.8	L	L	L	L								5
L	L	L	L	L	A							6
L	4.7	L	L	L								7
4.6	4.6	L	L	L								8
4.7	4.6	4.5	4.7	L								9
4.7	4.7	4.5	4.5	L	L							10
4.5	4.6	4.5	L	L								11
4.6	4.7	4.6	4.6	L								12
4.8	4.5	4.5	C	C								13
5.0	4.8	4.6	4.3	L								14
C	C	4.4	4.7	C								15
L	4.7	L	L	L	L							16
4.7	L	L	L	L								17
4.8	L	L	L	L								18
L	5.0	L	L	L								19
L	L	L	L	L								20
L	L	L	A	L	L							21
L	L	L	A	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
C	C	C	C	L	L							25
L	L	L	L	L	L							26
L	L	L ^H	L	L	L							27
L	L ^H	L	L	L	L							28
L	L ^H	L	L	L	L							29
L	L	L	L	L	L							30
4.8	4.9	4.9	5.0	A								31
11	12	8	6									Count
4.7	4.7	4.5	4.6									Median
4.7	4.7	4.6	4.6									Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic foF1
Unit Mc
Month March, 1962

TABLE 47—(Contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	4.8	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	4.8U
6							L	L	L	L	L	4.8
7							L	L	L	L	4.8	L
8							L	L	L	L	4.6	4.8
9							L	4.4	4.3	4.6	4.6	4.6
10							L	L	4.4	4.4	4.5	4.9
11							L	L	L	4.5	4.6	4.8
12							L	L	4.4	4.5	4.7	4.5
13							L	L	4.7	4.6	4.6	4.7
14							L	L	4.4	4.6	4.6	4.7
15							L	L	C	C	C	C
16							L	L	L	4.8	4.8	L
17							L	L	L	L	4.8	L
18							L	L	L	C	C	C
19							L	L	L	L	C	C
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	C	C	C	C
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	Lir	L	L
30							L	L	L	L	L	L
31							L	L	L	L	4.9	4.9
Count								1	5	7	12	10
Median									4.4	4.6	4.6	4.8
Mean									4.4	4.6	4.7	4.8

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo F1
Unit Mc
Month March, 1962

TABLE 47—Contd
Ionospheric Data
75 E Mean Time

Latitude 10°2'N
Longitude 77 5'E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	C	A	L	L								4
L	L	L	L	L								5
L	L	L	L	L	A							6
L	L	L	L	L	L							7
4.6	L	L	L	L	L							8
4.7	4.7	4.7	4.4	L	L							9
4.7	4.5	4.5	L	L	L							10
4.5	4.5	4.5	4.3									11
4.7	4.5	C	4.4	L								12
4.7	4.7	4.6	C	C	L							13
4.9	4.8	4.8	L	L								14
C	C	5.0	C	C								15
4.7	L	L	L	L								16
4.8	L	L	L	L								17
L	L	L	L	L								18
5.0	L	L	L	L								19
L	L	L	L	L								20
L	L	L	A	L	L							21
L	L	A	A	A	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
C	C	C	C	L	L							25
L	L	L	L	L	L							26
L	L ^H	L	L	L	L							27
L	L	L	L	L	L							28
L	L ^H	L	L	L	L							29
L	L	L	L	L	L							30
4.9	4.6	4.9	L	A								31
11	7	7	3									Count
4.7	4.6	4.7										Median
4.7	4.6	4.7										Mean

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

Characteristic fo E
 Unit Mc
 Month March, 1962

TABLE 48
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2								2.4 ^{UR}	A	A	A	A
3								A	A	A	A	A
4								2.4	A	A	A	A
5								2.3	A	A	A	A
6								A	A	A	A	A
7								A	A	A	A	A
8								2.2	A	A	A	A
9								R	2.8	A	A	A
10								A	A	A	A	A
11								2.3	2.6	A	A	A
12								2.3	3.0	A	A	A
13								2.1	3.5	A	A	A
14								A	A	A	A	A
15								2.6	C	C	C	C
16								2.4	A	A	A	A
17								A	A	A	A	A
18								A	A	C	C	C
19								A	A	A	A	C
20								2.3	A	A	A	A
21								2.9	A	A	A	A
22								A	A	A	A	A
23								A	A	A	A	A
24								2.5	3.2	A	A	A
25								A	C	C	C	C
26								A	A	A	A	A
27								A	A	A	A	A
28								2.5 ^{UR}	A	A	A	A
29								A	2.9	A	A	A
30								A	A	A	A	A
31								A	A	C	C	A
Count								13	6			
Median								2.4	3.0			
Mean								2.4	3.0			

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fo E
 Unit Mc
 Month March, 1962

TABLE 48
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25.0 Mc in 27 seconds

Characteristic fo E
 Unit Mc
 Month March, 1962

TABLE 48—Contd
 Ionospheric Data
 75 E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							3.8	A	A	A	A	A
2							2.0 ^{UR}	A	A	A	A	A
3							2.0	A	A	A	A	A
4								A	A	A	A	A
5							1.8	A	A	A	A	A
6							2.6	A	A	A	A	A
7							2.1	A	A	A	A	A
8							1.5	2.6 ^{II}	A	A	A	A
9							1.8	2.5	A	A	A	A
10							2.2	A	A	A	A	A
11							1.7	A	A	A	A	A
12							2.0	2.6	3.0	A	A	A
13								3.0	A	A	A	A
14							1.8	A	A	A	A	A
15							1.9	A	C	C	C	C
16							2.0	A	A	A	A	A
17							2.1	A	A	B	B	A
18							2.0	A	A	C	C	C
19							2.1 ^{II}	A	A	A	A	A
20							2.2	A	A	A	A	A
21								A	A	A	A	A
22							1.9	A	A	A	A	A
23							2.1	A	A	A	A	A
24								2.9	A	A	A	A
25							A	A	C	C	C	C
26							2.1	A	A	A	A	A
27								A	A	A	A	A
28								A	A	A	A	A
29								2.7 ^R	3.1	A	A	A
30								A	A	A	A	A
31							2.1	A	A	A	A	A
Count							22	6	2			
Median							2.0	2.6				
Mean							2.1	2.7				

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic fo Es
Unit Mc
Month March, 1962

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

Latitude 10 2' N
Longitude 77 5' E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo Es
Unit Mc
Month March, 1962

TABLE 49
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1		2 2						S	7 0us	12 8	12 8	11 6
2								G	8 0us	11 6us	13 0	14 0us
3								5 0us	S	12 0us	13 0	14 0
4		3 6						G	9 0us	13 0	14 0	13 0
5								G	9 6	8 0	12 2	13 4
6				3.1				3 0	10 3	11 6	12 6	12 4
7								6 8	10 5	10 7	11 4	11 8
8								G	6 6	10 7	11 4	12 6
9								2 8	7 4	10 8	12 0	12 8
10								6 0	9 0	11 6	10 4	9 8
11		3 1			3 1	3 6		2 3	3 1	10 0	10 4	12 4
12		7 0		2.0	2 4			2 9	7 0	11 4	12 4	11 4
13						1 9		G	8 6	9 8	10 2	14 0
14								6 4	8 4	11 8	12 0	12 0
15								6 0	C	C	C	C
16								6 0us	11 0	12 4	12 2	12 3
17		4 2						5 8	9 6	11 6	13 5	13 0
18								4 2	9 0	C	C	C
19								S	10 6	11 4	11 6	C
20								6 8	9 7	12 8	13 6	13 6
21								8 6	8 7	10 6	12 0	12 0
22		2.1	2 2					4 2	9 2	10 2	12 0	11 6
23								4 8	11 0	12 0	12 0	11 6
24								G	6 8	9.8	12 0	11 2
25		3 2						7 0	C	C	C	C
26				2 9				9 2	10 8	9 6	12 7	12 7
27								8 2	10 2	10 6	12 1	12 6
28		3 4				3 1us		G	11 3	12 2	12 2	12 7
29									G	10 8	12 0	12 0
30								7 2	11 2	12 4	12 2	12 4
31		4 2s	4 4S	2 7				G	8 4	C	C	12 6
Count	4	7	1	3	3	2		28	28	27	27	27
Median		3 6						4 5	9 0	11 4	12 1	12 4
Mean		3 8						5 7	9 0	11 2	12 1	12 4

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic fo Es
Unit Mc
Month March, 1962

TABLE 49
Ionospheric Data
75 E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.8	12.6	13.0	10.0	9.0	5.0 ^{us}	3.0				3.0		1
14.0 ^{us}	13.0 ^{us}	13.0	11.0	9.4 ^{us}	8.6 ^{us}							2
14.0	14.0	13.0	10.0	7.0 ^{us}	5.0						4.8	3
14.0	12.0	13.0	12.0	9.4	5.0							4
12.8	13.0	11.0	6.6	G					2.0			5
11.6	12.0	11.2	9.2	8.5	9.6	12.0	8.4	S				6
12.4	11.6	12.6	9.6	7.7	5.6							7
12.0	12.4	9.4	8.6	8.6								8
12.4	13.4	12.0	9.0	6.8	9.6	11.2				3.6	4.2	9
12.6	11.6	10.8	9.8	8.8	2.7							10
11.6	11.6	10.2	9.8	8.8			3.2					11
11.6	12.4	13.0	9.0	7.0	6.4	4.4					5.0	12
12.0	10.6	13.0	C	C								13
12.4	12.4	10.8	9.0	7.6	8.8	5.6						14
C	C	11.0	10.8	C	C							15
12.4	12.6	11.2	10.2	8.6	7.4	5.6	2.2					16
12.8	11.2	12.4	9.6	10.4	9.0 ^{us}	3.6				3.2	5.8	17
12.7	12.2	11.7	9.4	9.7	8.4							18
13.8	13.2	11.5	8.8	5.6	7.4				2.8			19
12.6	13.7	12.6	7.7	4.4	8.2				4.0			20
12.2	11.8	10.4	11.0	9.2	4.8							21
11.8	11.4	9.6	14.0	7.4	5.6							22
12.8	11.6	11.2	8.8	9.8	10.2 ^{us}							23
11.8	12.0	11.4	8.0	6.2	7.0							24
C	C	C	C	8.4						3.6 ^s		25
12.9	11.8	12.5	9.3	8.8							3.8	26
13.0	12.2	11.6	10.2	13.6 ^{ur}	14.6 ^{us}	S				6.2 ^{us}	3.2 ^{us}	27
12.7	12.5	12.1	11.2	11.2 ^s	8.1 ^{us}	S	3.1 ^{us}					28
12.6	12.0	12.6	16.8	17.8	15.0	4.2			3.4			29
12.7	12.6	12.1	12.5 ^{us}	10.8	S	7.6					4.6 ^{us}	30
11.8	11.4	11.6	9.8	16.0	9.6	6.6						31
29	29	30	29	29	23	10	4		5	5	6	Count
12.6	12.2	11.6	9.8	8.8	8.1	5.6			3.4	3.6	4.7	Median
12.6	12.2	11.7	10.1	9.2	7.9	6.4			3.2	4.0	4.5	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic fo Es
Unit Mc
Month March, 1962.

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

Latitude 10 2' N
Longitude 77 5° E

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

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

Characteristic fo Es
Unit Mc
Month March, 1962

TABLE 49—(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
13 0	13 0	13 0	9 0	7 0 _{us}	4 0				2 2			1
13 0 _{us}	14 4	11 6	9 0	9 0	5 0 _{us}							2
14 0	13 0	12 4	10 0 _{us}	7 0 _{us}	5 0						4 4	3
12 4	C	13 0	11 0	9 0	4 0							4
13 4	12 8	9 0	G	G								5
11 7	11 6	9 2	9 0	13 0	13 8	7 0	10 8	6 6				6
11 6	12 0	10 0	8 6	7 2	3 8							7
11 8	11 6	9 4	10 8	7 8						2 6		8
11 0	12 0	10 8	9 4	5 8	11 0				2 8		3 0	9
12 8	12 4	10 8	8 6	5 8	4 6			1 9				10
12 2	12 4	10 0	10 0	8 4		3 1						11
13 4	11 8	9 0	C	7 0	6 0					2 8	2 8	12
14 0	12 0	10 0	C	C								13
12 4	11 0	9 8	7 4	4 3	8 8	3 1						14
C	C	11 0	C	C								15
13 4	12 4	10 6	11 0	7 0	8 2	2 5						16
13 2	11 5	10 4	9 8	8 6	8 8					4 6 _{us}		17
13 2	12 4	9 6	8 6	9 8	4 2							18
13 8	12 6	9 8	7 4	8 6	5 8							19
13 2	12 8	9 0	7 2	8 8	2 9							20
11 6	11 4	9 0	11 4	4 8	4 2						2 2	21
11 4	9 6	13 8	12 8	7 0								22
12 2	11 8	10 2	11 0	10 0								23
11 8	11 6	8 2	7 0	6 2 _{us}								24
C	C	C	C	8 8 _{us}					3 4 _b			25
12 7	12 3	10 9	9 5	7 8	3 5					5 2 _{us}	3 2 _{us}	26
13 0	11 8	10 8	12 2	13 8	11 6							27
12 3	12 1	12 1	9 6	8 6	S	3 8 _{us}		2 6				28
11 8	12 6	15 0	21 0	8 0	S			3 6		2 4		29
13 3	11 8	11 8	10 9 _{us}	9 8	8 3 _{us}	4 6 _{us}						30
12 8	12 4	10 8	10 0	11 2	7 0							31
29	28	30	27	29	20	6	1	4	3	5	5	Count
12 8	12 0	10 5	9 6	8 0	5 4	3 4				2 8	3 0	Median
12 6	12 1	10 7	10 1	8 2	6 5	4 0				3 5	3 1	Mean

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

Characteristic fb Es
Unit Mc
Month March, 1962

TABLE 50
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								2.4	3.0	3.4	3.5	3.7
2								G	3.0	3.3	3.6	3.8
3								2.4	3.0	3.3	3.6	2.8
4		1.6						G	3.0	3.2	3.6	4.0
5								G	2.9	2.2	3.5	3.6
6				1.7				2.4	2.9	3.2	3.5	3.7
7								2.4	2.8	3.2	3.6	3.8
8								G	2.9	3.2	3.4	3.6
9								2.4	2.8	3.2	3.5	3.6
10								2.8	2.9	3.3	3.5	4.0
11		2.0			1.6			2.4	3.0	3.2	3.4	3.5
12		2.3		1.1	1.6			2.4	2.8	3.2	3.5	3.8
13						1.4		2.4	2.8	3.2	3.4	3.6
14								2.5	2.9	3.2	3.6	3.6
15								2.4	C	C	C	C
16								2.4	3.0		3.7	3.8
17		2.0						2.5	3.0	3.5		3.9
18								2.4	3.0	C	C	C
19								2.5	3.0	3.4	3.8	C
20								2.4	3.0	3.4	3.7	3.9
21								G	3.1	3.4	3.7	3.8
22	1.7	1.9						2.5	3.1	3.4	3.7	3.8
23								2.6	3.2	3.4	3.6	3.8
24								G	3.2	3.6	3.8	3.9
25	2.2							2.6	C	C	C	C
26				2.1				2.8	3.2	3.4	3.6	3.9
27								2.5	3.1	3.5	3.7	3.7
28	2.2							G	3.1	3.5	3.7	3.9
29								G	3.4	3.7	3.7	3.8
30								2.7	3.1	3.4	3.8	3.8
31	2.5	2.2	2.0					G	3.0	C	C	3.9
Count	4	6	1	3	2	1		30	29	26	26	27
Median		2.0						2.4	3.0	3.4	3.6	3.8
Mean		2.0						2.5	3.0	3.3	3.6	3.7

Sweep 1.0 Mc to 25.0 Mc, in 27 seconds

Characteristic fb Es Latitude 10 2° N
 Unit Mc Longitude 77 5° E
 Month March, 1962

TABLE 50
 Ionospheric Data
 75° E Mean Time

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

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

Characteristic fb Es
 Unit Mc
 Month March, 1962

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

Latitude 10 2° N
 Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.8						G 2.7	3.2	3.5	3.7	3.8	
2	1.8						G 2.6	3.2	3.4	3.8	3.8	
3							G 2.7	3.2	3.4	3.6	3.8	
4							2.7	3.0	3.4	3.8	3.8	
5							G 2.6	3.0	3.4	3.6	3.8	
6			1.9	2.9			2.3	2.7	3.0	3.4	3.5	3.7
7							G 2.6	3.1	3.3	3.6	3.8	
8							3.7	G 3.0	3.2	3.5	3.7	
9							2.0	2.6	3.1	3.4	3.6	3.6
10							2.0	2.7	3.1	3.4	3.6	3.7
11	1.9				1.6	1.1	2.0	2.6	3.1	3.4	3.5	4.0
12	2.5	2.0		2.1	G		G 2.6	3.1	3.3	3.6	3.7	
13		1.8					2.6	3.0	3.4	3.6	3.6	
14			1.9				2.0	2.7	3.1	3.4	3.6	3.7
15							2.4	2.8	C	C	C	C
16							G 2.7	3.2	3.7	3.8	3.8	
17							2.3	2.7	3.2	4.1	4.1	
18							G 2.7	3.2	C	C	C	
19							G 2.7	3.2	3.5	C	C	
20							2.2	2.8	3.3	3.6	3.8	3.9
21								2.8	3.1	3.5	3.7	3.8
22	1.9						G 2.8	3.3	3.6	3.8	3.9	
23							G 2.9	3.2	3.6	3.8	3.9	
24							G 2.9	3.4	3.6	3.8	4.0	
25							2.4	2.9	C	C	C	C
26							G 2.9	3.4	3.7	3.7	3.9	
27							2.8	3.3	3.7	3.8	3.9	
28	2.4			1.7			2.8	3.3	3.7	2.8	3.9	
29							G 2.8	G 3.6	3.6	3.7	3.9	
30							3.0	3.3	3.7	2.8	4.0	
31	2.4	2.8	2.4				G	G	3.3	3.6	3.7	3.9
Count	7	3	3	4	2	1	23	31	29	27	27	27
Median	1.9						G	2.7	3.2	3.5	3.7	3.8
Mean	2.1						2.3	2.7	3.2	3.5	3.6	3.8

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fb Es
Unit Mc
Month March, 1962

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

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

Characteristic fmin
Unit Mc.
Month March, 1962

TABLE 51
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	14	15	16	18	17	13	15	18	14	22	24	24
2	16	17	16	S	17 ^{Us}	15	17	16	17	22	24	24
3	15	16	15	16 ^{Us}	15	11	12	16	16	22	25	26
4	17	15	16	16 ^{Us}	17	13	16	16	17	20	22	26
5	11	15	15	15	14	12	15	14	14	18	24	26
6	13	13	16	15	27	13	24	15	16	23	25	26
7	16	16	16	16	15	13	13	15	18	21	24	26
8	15	16	16	16	16	11	13	15	16	20	26	25
9	12	16	13	16	16	E	19	20	17	23	24	24
10	19	15	16	15	15	E	12	17	18	21	24	24
11	16	16	19	17	E	11	15	17	18	21	24	24
12	17	18	18	11	11	13	15	17	18	20	25	27
13	15	17	17	16	16	E	S	16	17	23	24	27
14	17	17	18	16	15	13	15	15	19	22	26	26
15	16	15	15	15	15	11	16	15	C	C	C	C
16	15	17	18	15	14	E	14	15	18	42	28	28
17	13	16	16	16	15	14	14	13	17	28	47	35
18	19	16	16	15	16	11	16	13	17	C	C	C
19	16	15	11	16	14	11	16	15	C	23	26	C
20	18	16	15	S	13	11	16	14	22	24	28	29
21	16	C	C	16	16	14	17	17	21	24	25	27
22	17	19	16	17	13	11	18	16	22	24	26	27
23	18	17	16	15	15	14	C	14	19	24	26	27
24	17	19	19	S	S	S	17	19	22	26	30	32
25	16	16	17	17	13	14	17	17	C	C	C	C
26	25	19	18	14	12	13	17	14	18	25	26	28
27	21	19	C	C	C	C	C	19	21	24	27	27
28	18	19	16	15	13	15	22	20	24	25	28	28
29	19	17	16	14	13	14	16	25	22	25	27	27
30	19	17	17	14	13	13	19	19	23	27	28	31
31	13	18	16	15	11	13 _r	20	26	23	C	C	30
Count	31	30	29	27	29	29	28	31	28	27	27	27
Median	16	16	16	16	15	13	16	16	18	23	26	27
Mean	16	17	16	15	15	13	16	17	19	24	26	27

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic fmin
Unit . Mc.
Month March, 1962.

TABLE 51
Ionospheric Data
75° E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.5	2.2	2.4	2.3	2.5	1.4	1.6	1.4	1.6	1.6	1.7	1.6	1
2.4	2.5	2.4	2.4	1.7	1.6	1.8	1.5US	FS	FS	1.6US	1.5	2
2.6	2.6	2.4	2.2	2.0	1.8	1.9	1.6	2.0US	1.6	1.7	1.7	3
2.6	2.4	2.2	2.0	2.2	2.2	2.1	2.4US	2.4US	1.7	1.8	1.5	4
2.6	2.7	2.6	2.4	2.2	2.5	2.4	1.6	2.0	1.8US	1.9	1.5	5
2.7	2.7	2.6	2.3	2.4	2.3	2.1	2.1	1.9	1.6	1.5	1.4	6
2.6	2.5	2.5	2.5	2.3	2.6	2.5	1.6	1.8	1.7	1.6	1.5	7
2.7	2.5	2.4	2.1	2.0	2.0	1.7	1.7	1.8	1.7	1.8	1.5	8
2.6	2.6	2.4	2.6	2.4	2.2	2.6	3.4	2.6S	2.2	2.4	1.9	9
2.6	2.6	2.4	2.4	2.4	2.2	2.1	2.2	2.5	1.8	1.8	1.8	10
2.5	2.4	2.4	2.5	2.4	2.5	2.6	2.4	2.6	2.5	2.5	1.7	11
2.4	2.6	2.4	2.5	2.0	1.7	1.9	1.4	2.5S	2.6	1.7	1.6	12
2.6	2.8	2.4	C	C	2.6	2.2	2.5	2.5	2.5	1.8	1.7	13
2.7	2.7	2.4	2.0	3.0	2.3	1.7	1.6	2.5	2.2	1.8	1.6	14
C	C	2.6	2.6	C	C	C	C	2.4	2.5	1.6	1.7	15
2.6	2.6	2.6	2.6	2.4	1.6	1.3	1.6	1.8	2.0	1.8	1.9	16
3.0	2.8	2.6	2.3	2.3	1.8	2.6	1.7	2.0	2.0	2.1	2.0	17
2.8	2.8	2.6	2.6	1.9	1.7	1.9	1.7	1.6	1.5	1.6	1.7	18
2.9	3.0	2.7	2.9	2.7	2.0	2.4	2.0	1.7	1.7	2.0	1.7	19
2.9	2.8	2.7	2.7	2.5	1.9	2.1	S	S	1.9	1.9	1.6	20
2.8	2.8	2.8	2.7	2.0	1.9	2.1	2.2	F	F	1.8	1.7	21
3.0	2.8	2.6	2.7	2.5	2.0	2.2	1.9	F	F	2.1	2.0	22
2.8	2.6	2.6	2.8	2.0	1.8	2.0	S	S	S	2.2	1.7	23
3.2	3.5	3.0	2.8	2.2	2.6	S	S	FS	FS	1.7	1.9	24
C	C	C	C	2.4	C	2.5	FS	FS	FS	1.8	2.0	25
2.9	2.8	2.7	2.4	2.6	2.6	2.1	1.6	1.6	C	1.4	1.4	26
2.8	2.7	2.8	2.6	2.0	1.7	1.8	1.4	1.8	1.9	1.2	1.5	27
3.0	2.9	2.7	2.5	2.4	2.2	1.5	1.8	F	S	1.6	1.9	28
2.8	2.9	2.7	2.3	1.8	1.9	2.8	1.9	1.9	1.5	2.1	2.1	29
3.1	3.1	2.9	2.5	1.9	1.6	1.7	1.6	S	1.6	1.4	1.6	30
3.0	3.0	2.8	2.2	2.0	1.8	1.7	1.8	FS	S	2.4	2.4	31
2.9	2.9	3.0	2.9	2.9	2.9	2.9	2.6	2.3	2.2	3.1	3.1	Count
2.7	2.7	2.6	2.5	2.3	2.0	2.1	1.7	2.0	1.8	1.8	1.7	Median
2.7	2.7	2.6	2.5	2.2	2.0	2.1	1.9	2.0	1.9	1.8	1.7	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fmin
Unit Mc
Month March, 1962

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

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	15	15	15	24	15	C	16	15	20	22	24	24
2	17	16	15	14 ^{US}	15	13	17	15	20	23	24	26
3	16	15	15	16 ^{US}	15	12	16	16	20	24	24	25
4	18	15	16	14 ^{US}	15 ^{US}	16	20	17	19	24	24	26
5	14	17	16	17	13	11	16	15	17	24	24	26
6	14	13	17	E	24	15	15	16	18	23	27	26
7	15	15	15	14	13	11	14	17	20	23	25	26
8	18	17	16	16	13	10	14	16	18	19	24	26
9	16	16	15	12	15	E	16	15	19	20	24	26
10	17	17	19	15	16	E	15	16	18	21	24	25
11	16	18	17	16	E	E	16	18	20	22	26	24
12	19	18	16	17	13	13	16	18	21	25	27	26
13	15	15	16	15	11	S	21	17	17	22	26	26
14	14	17	16	16	14	11	14	16	19	23	27	26
15	17	11	17	16	13	11	16	16	C	C	C	C
16	16	14	13	11	11	10	17	17	19	33	29	26
17	14	16	15	16	14	12	12	14	25	46	38	30
18	17	18	17	18	13	11	14	16	21	C	C	C
19	16	16	12	13	12	12	13	16	20	24	C	C
20	15	15	14	S	11	12	15	17	24	27	29	29
21	17	C	C	16	15	S	23	19	23	25	28	28
22	17	18	18	16	13	10	16	18	22	24	26	28
23	19	17	17	16	13	14	14	17	20	25	26	28
24	17	S	S	S	S	15	23	19	24	26	30	30
25	19	17	17	15	13	14	16	20	C	C	C	C
26	23	21	19	16	14	14	15	18	23	26	28	28
27	21	19	C	C	C	C	C	19	26	25	27	29
28	16	18	18	12	13	12	25	22	24	27	26	28
29	17	16	15	13	E	13	21	21	25	26	28	27
30	16	14	16	14	11	14	24	24	25	27	30	30
31	18	17	18	15	15 ^{UF}	17	24	29	22	26	25	30
Count	31	29	28	28	29	27	30	31	29	28	27	27
Median	17	16	16	16	13	12	16	17	20	24	26	26
Mean	17	16	16	15	14	13	17	18	21	25	27	27

Sweep 10 Mc to 250 Mc in 27 seconds

Characteristic fmin
Unit Mc
Month March, 1962

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

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

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

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic $h'F_2$
 Unit Km
 Month March, 1962

TABLE 52
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									L	300 _{UL}	L	L
2								L	L	L	340	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	300	320	310
7								L	L	L	L	L
8								L	285	300	L	L
9								280	300	300	350	340
10							L	L	310	335	370	370
11								L	L	320	310	340
12								L	280	305	315	330
13								L	L	300	310	340
14								L	315	320	330	370
15								L	C	C	C	C
16								L	L	L	325	340
17								L	L	L	L	355
18								L	L	C	C	C
19								L	L	L	L	C
20								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	320 _L
25							L	L	C	C	C	C
26								L	L	L	L	L
27								L	L	L	L	325 _L
28								L	L	L	L	L
29								L	300	300	L _H	L _H
30								260	L	L	L	340
31								L	L	C	C	330
Count								2	6	10	9	13
Median									300	300	325	340
Mean									300	310	330	340

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

Characteristic $h'F_2$
 Unit Km
 Month March, 1962

TABLE 52
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
350	320	L	A	L								4
360	L	L	L	L								5
L	310	L	L	L	A							6
L	335	L	L	L								7
340	315	L	L	L								8
340	340	330	320	L								9
390	370	340,	320	L	L							10
320	340	310	L	L								11
340	360	330	320	L								12
360	310	310	C	C	L							13
370	350	320	300	L								14
C	C	300	320	C	C							15
L	325	L	L	L	L							16
345	L	L	L	L								17
340	L	L	L	L								18
L	340	L	L	L								19
L	L	L	L	L								20
L	L	L	A	L	L							21
L	L	L	A	L	A							22
L	L	L	L	A	L							23
L	L	L	L	A	L							24
C	C	C	C	L	C							25
L	L	L	L	L	L							26
L	L	Lit	L	A	L							27
L	Lit	L	L	L	L							28
L	L	L	A	A	L							29
L	L	L	L	L	L							30
320	330	330	320	A								31
12	13	8	6									Count
340	335	325	320	.	.							Median
350	335	320	315	..	..							Mean

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

Characteristic h'F₂
Unit Km
Month March, 1962

TABLE 52 (contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77 5° E.

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	320ul	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	360ul
6							L	L	L	L	310	325
7							L	L	L	L	340	360
8							L	L	305	315	335	355
9							L	285	315	330	380	380
10							L	L	320	355	350	400
11							L	L	L	320	320	340
12							L	L	295	315	335	320
13							L	L	310	310	310	330
14							L	L	300	320	340	360
15							L	L	C	C	C	C
16							L	L	L	330	340	L
17							L	L	L	L	335	360
18							L	L	L	C	C	C
19							L	L	L	L	C	C
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	320ul	L
25							L	L	C	C	C	C
26							L	L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	L
29							L	290	305	L	L	L
30							L	L	L	L	L	L
31							L	L	L	L	345	350
Count								2	7	9	14	12
Median									305	320	335	360
Mean									305	325	335	355

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic $h'F_2$
 Unit Km
 Month March, 1962

TABLE 52 (contd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
340	C	A	L	L								4
L	L	L	L	L								5
L	L	L	L	A	A							6
L	L	L	L	L								7
330	L	L	L	L								8
350	330	330	300	L								9
380	350	340	L	L								10
350	330	320	310									11
345	340	C	305	L								12
340	330	320	C	C								13
390	340	330	L									14
C	C	330	C	C								15
330	L	L	L	L								16
340	L	L	L	L								17
L	L	L	L	L								18
340	L	L	L	L								19
L	L	L	L	L								20
L	L	L	A	L	L							21
L	L	A	A	L								22
L	L	L	A	A	L							23
L	L	L	L	L	L							24
C	C	C	C	L	L							25
L	L	L	L	L	L							26
L	L _H	L	L	A								27
L _H	L	L	L	L								28
L	L _H	L	A	A								29
L	L	L	L	L	L							30
330	310	340	L	A								31
12	7	7	3									Count
340	330	330										Median
345	335	330										Mean

Sweep 1 0 Mc to 25 0 Mc to 27 seconds

Characteristic h'F
 Unit Km
 Month March, 1962

TABLE 53
 Ionospheric Data
 75°E Mean Time

Latitude 10 2' N
 Longitude 77 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	240	240	220	240	240	245	280	245	230	220	210	200
2	240	225	220	220	240	240	260	245	235	220	210	200
3	240	225	220	220	230	240	280	240	220	205	205	200
4	260	240	230	220	230	240	250	240	220	220	200	220
5	220	220	220	230	230	240	260	240	220	210	200	200
6	220	230	230	260	285	280	300	245	220	220	210	210
7	235	235	240	240	250	260	270	240	220	210	200H	200
8	220	220	210	230	250	245	260	235	225	210	205	200
9	230	225	220	230	245	E	260	240	215	210	210	200
10	230	230	220	230	270	E	270	235	220	210	200	200
11	250	255	225	220	260	S	280	240	230	220	205	200
12	260	260	255	255	240	230	260	240	215	210	200	200
13	250	240	250	290	280	290	S	250	225	215	210	200
14	240	240	230	230	235	250	270	250	220	205	200	200
15	260	250	230	240	240	240	270	240	C	C	C	C
16	240	245	240	240	260	265	270	240	220	B	205	200
17	240	235	225	225	240	255	265	240	225	220	B	205
18	235	225	220	235	240	250	265	240	225	C	C	C
19	240	225	230	245	255	250	275	240	220	210	200	C
20	225	230	255	265	255	240	270	240	225	220	205	200
21	260	C	C	240	230	240	270	230H	220	215	200	200
22	260	245	235	235	235	260	270	240	230	215	200	200
23	230	230H	230	230	240	240	C	240	225	210	200	200
24	225	S	S	S	S	S	260	240	220	210	200	200
25	240	240	240	240	235	240	265	230	C	C	C	C
26	260	260	255	265	250	250	280	245L	240L	215H	200H	215L
27	240	240	C	C	C	C	C	250	225	220	205	205
28	265	260	245	245	240	245	265	240	215	210	200	215
29	250	240	260	305	360	305	265	240	235	210	215H	200H
30	260	260	245	255	240	220	260	235L	220	215	205	205
31	255	245H	265	260H	275	255H	255	235	220	C	C	200
Count	31	29	28	29	29	28	28	31	29	26	26	27
Median	240	240	230	240	240	250	270	240	220	210	200	200
Mean	245	240	235	245	250	250	270	240	225	215	205	205

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'F
 Unit Km
 Month March, 1962.
 TABLE 53
 Ionospheric Data
 75°E Mean Time
 Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
190 _{II}	195 _{II}	200	220	230	230	28 ⁰	320 _F	260	260	250	240	1
200	195	200	200	220	250	280	360	FS	FS	280 _{UR}	240	2
200	200	190 _{II}	190 _{II}	220	250	275	340	360 _{J1}	260	250	260	3
200	205	210	A	225	260	280	320	300	270	280	240	4
200	195	180 _F	200	270	240	280	360	380 _{UR}	F	280 _{UR}	240	5
200	180 _{II}	200	195	230	A	A	A	250	225	230	240	6
195	180 _{II}	195	190	230	245	270	310	270 _F	240	235	230	7
190	185	180	215	220	235	265	315	F	300 _F	240 _F	215	8
185	180	185	190	205	A	A	300	300 _S	240	260	230	9
200	200	180	185	210	240	260	300	340	270	230	220	10
200	195	195	180	220	240	270	280	290	265	260	260	11
200	190	190	200	210	250	270	260	320	290	240	250	12
195	200	195	C	C	250	270	330	340	285 _F	250	240	13
200	200	195	200	230	A	A	290	290	270	240	260	14
C	C	200	205	C	C	C	C	260	240	235	240	15
200	195 _{II}	180 _{II}	180 _{II}	200	245	280	320	260 _{UF}	F	280	240	16
200	195	190	205	A	270	275	310	290	270 _{UI}	265	240	17
200	190	190	200 _{II}	230	250	280	350	315	340	255	235	18
200 _H	190	200	205	235	260	280	360	380	320	255	230	19
200	195	195 _{II}	200	230	260	280	F	F	F	255	245	20
200	200	200	A	240	260	280	F	F	F	260 _I	265	21
200	200	200	A	220	A	280 _S	350 _S	F	F	260	260	22
200	200	200	A	240	A	S	S	FS	FS	260	240	23
200	205	200	230	A	245	280 _S	S	FS	FS	260 _{F-S}	220 _{FS}	24
C	C	C	C	200 _H	C	295	FS	FS	FS	230	240	25
200	200 _L	200 _I	200 _L	205 _{LII}	255	295	F	F	C	280	245 _F	26
200	200	210 _H	210	A	A	290	300 _{UF}	F	F	F	260	27
200	190 _H	200	220	225	240	280	380 _{UR}	F	290	260	240	28
210	195 _H	215	A	A	A	290	330	350	320	290	260	29
205	205	195	220	245	245	280	380	F	F	260	240	30
200	195	190	220	A	270	290	335	300 _{F-S}	290 _S	265	225	31
29	29	30	25	23	23	26	23	19	19	30	31	Count
200	195	195	200	220	250	280	320	300	270	260	240	Median
200	195	195	200	220	250	280	325	310	275	265	240	Mean

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

Characteristic h'F
Unit Km
Month March, 1962

TABLE 53 (contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	230	240	220	240	260	C	260	240	220	220	200	190 _R
2	230	220	230	240	240	250	260	240	220	220	200	200
3	240	220	220	240	250	240	260	230	215	200	200	210
4	240	240	220	240 _{us}	250	240	260	240	220	210	200	200
5	220	220	220	240	240	240	260	230	220	210	200	200
6	220	225	240	270	285	300	260	240	220	215	205	200
7	240	225	240	240	250	260	250	230	210	200	190 _H	200
8	220	220	215	235	250	270	240	230	220	205	200	200
9	230	220	220	235	260	E	250	230	230	205	200	195
10	225	220	230	240	300	E	250	230	210	210	200	200
11	260	240	210	245	280	280	250	230	225	210	200	210
12	260	260	250	260	240	240	250	230	215	215	200	205
13	240	240	280	295	260	S	255	235	220	210	200	200
14	240	225	235	240	240	255	250	210	210	200	200	200
15	260	240	225	240	240	240	260	230	C	C	C	C
16	240	240	230	245	260	280	250	230	220	220	205	200
17	240	220	230	235	250	275	250	230	215	B	205	200
18	235	220	230	235	240	255	250	230	215	C	C	C
19	230	225	235	250	250	265	255	230	220	205 _H	C	C
20	230	240	265	260	240	240	255	235	225	210	210	200
21	260	C	C	235	240	S	250	220	220	210	200	200
22	255	240	235	235	245	265	250	235	220	205	200	200
23	240	230	230	230	240	240	250	230	210 _H	210	200	200
24	220	S	S	S	S	235 _s	245	230	210	205	200	200
25	240	240	240	240	235	240	240	220	C	C	C	C
26	260	250	250	245	240	255	260	240 _L	225 _L	220 _L	210 _L	210 _L
27	240	245	C	C	C	C	C	240 _L	210 _L	200 _L	205	200
28	270	250	240	245	245	245	260	225	220	210	205	205
29	245	245	280	340	340	285	260	240	215	205 _H	225	210
30	260	250	255	240	225	245	260	240	215 _L	220	205 _L	200 _L
31	250	A	255	270 _P	265 _P	250	250	230	215	210	205	205
Count	31	28	28	29	29	27	30	31	29	27	27	27
Median	240	240	230	240	245	255	250	230	220	210	200	200
Mean	240	235	235	250	250	255	255	230	220	210	205	200

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'F
 Unit Km
 Month March, 1962

TABLE 53 (concl'd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E.

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
200 _U	185	190	220	240	260	300	300 _{UF}	240	260	240	240	1
195	200	200	220	240	260	310	380 _{UF}	FS	300 _{UI}	260	240	2
200	190 _{UI}	200	220	230	260	300	380 _{UF}	280	260	240	260	3
200	C	A	240	240	260	320 _{US}	320	275	260	260	220	4
200	200	200	215	220	260	320	360 _F	380 _{UF}	280 _{UI}	250	245	5
190 _H	200	215	225	A	A	275	A	240	230	245	240	6
190	200	195	200	235	260	300	F	260	230	230	225	7
195	180	180	215	230	250	290	350	330 _F	220 _F	225	240	8
180	180	185	205	235	260	280	310	F	F	225	230	9
185	185	190	200	200	260	280	315	320	240	220	230	10
200	180	200	215	230	260	280	280	275	260	260	260	11
200	195	200	210	220	260	280	340	300	270	240	255	12
200	180	190	C	C	240	300	330	330	260	245	240	13
200	195	200	200	280	A	280	300	280	255	240	265	14
C	C	200	C	C	C	C	260	255	240	240	240	15
200	190	200	200	215	260	300	270 _{UI}	I	290	260	245	16
190	200	210	225	A	280	300	305 _{UI}	280	260	235	235	17
200	190	180 _{UI}	205	240 _{UA}	260	310	330	325	280 _F	240	240	18
200	200	200	220	260	260	320	360 _F	360	280	240	230	19
200	200	205	250	220	265	320	F	F	260	240	245	20
200	200	220 _{UI}	A	240	260	300	F	F	FS	255	270 _r	21
200	205 _H	A	A	240	260	300 _S	F	F	255	260	F	22
200	200	200	A	A	240	S	FS	FS	FS	240	230	23
215	195	220	210	240	265	320 _S	S	S	FS	FS	C	24
C	C	C	C	240	270	320	FS	FS	120 _r	240 _r	260	25
205 _L	200 _L	200 _L	210 _{HL}	240 _L	270	340	F	280	F	260	240	26
200	190 _{UI}	210	200	A	300	310	F	F	F	F	260	27
195 _{UI}	215	210	220	240	260	300	F	290 _{UI}	280	240	245	28
215	195 _H	225 _{UA}	A	A	275	305	340	335	320	280	260	29
195 _L	195 _L	230 _L	225 _L	250 _{UA}	270	350	F	F	F	260	240	30
200	195	210	225	275 _{UA}	280	300	F	270 _S	270	230	220	31
29	28	28	24	24	28	29	18	20	24	29	29	Count
200	195	200	215	240	260	300	325	280	260	240	240	Median
200	195	200	215	240	265	305	325	295	265	245	245	Mean

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

Characteristic h'E
 Unit Km
 Month March, 1962

TABLE 54
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N.
 Longitude 77 5° E

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

Sweep 10 Mc to 25.0 Mc in 27 seconds

Characteristic h'E
 Unit Km
 Month March, 1962

TABLE 54
 Ionospheric Data
 75°E Mean Time

Latitude 10 2°N
 Longitude 77 5°E

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

Sweep 1.0 Mc to 250 Mc in 27 seconds

Characteristic h'E
 Unit Km
 Month March, 1962

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

Latitude 10 2°N
 Longitude 77 5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							160	A	110	110	A	110
2							140	A	115	110	A	A
3							145	120	110	A	A	A
4								120	A	A	A	A
5							140	110	110	110	A	110
6							140	A	110	A	110	110
7							125	110	110	A	A	A
8							120	110	A	A	A	A
9							130	110	A	A	A	A
10							130	A	A	A	A	A
11							130	A	A	A	A	A
12							135	120	120	A	A	A
13								120	A	A	A	A
14							130	A	A	A	A	A
15							135	A	C	C	C	C
16							125	110	110	A	A	A
17							110	110	A	B	B	A
18							130	110	A	C	C	C
19							125	110	A	A	C	C
20							130	115	A	A	A	A
21								A	A	A	A	A
22							110	A	A	A	A	A
23							100	A	A	A	A	A
24								110	A	A	A	A
25							A	A	C	C	C	C
26							130	A	A	A	A	A
27								A	A	A	A	A
28								A	A	A	A	A
29								115	110	A	A	A
30								A	A	A	A	A
31							140	A	A	A	A	A
Count							22	15	9	3	1	3
Median							130	110	110			
Mean							130	115	110			

Sweep 10 Mc to 25.0 Mc in 27 seconds

Characteristic h'E
 Unit Km
 Month March, 1962

TABLE 54 (concl'd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2°N.
 Longitude 77 5°E

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

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'E
 Unit Km.
 Month March, 1962

TABLE 55
 Ionospheric Data
 75°E Mean Time

Latitude 10 2°N
 Longitude 77 5°E.

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

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

Characteristic h'E
 Unit Km
 Month March, 1962

TABLE 55
 Ionospheric Data
 75°E Mean Time

Latitude 10 2°N
 Longitude 77 5°E

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

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic h'Es
 Unit Km.
 Month March, 1962

TABLE 55 (contd)
 Ionospheric Data
 75° E Mean Time

Latitude 10 2°N
 Longitude 77 5°E

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

Sweep 10 Mc to 250 Mc in 27 seconds

Characteristic h'Es
 Unit Km.
 Month. March, 1962

TABLE 55 (concl'd)
 Ionospheric Data
 75°E Mean Time

Latitude 10.2°N.
 Longitude 77 5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100	100				120			1
100	100	100	100	100	100							2
100	100	100	100	105	100						110	3
100	C	100	100	100	110							4
100	100	100	G	G								5
100	100	100	100	110	110	110	105	110				6
100	100	100	100	105	115							7
100	100	100	100	100	100					110		8
115	110	120	120	125	120				140		115	9
110	110	120	120	110	110			180				10
110	110	110	110	120		110						11
120	115	115	115	110	110					120	120	12
115	120	120	C	C								13
115	120	120	110	110	110	110						14
C	C	125	C	C								15
100	100	100	100	105	100	100						16
100	100	100	100	100	100					110		17
100	100	100	105	100	120							18
100	100	100	100	100	100							19
100	100	100	100	100	140							20
100	100	100	100	100	100						115	21
100	100	100	100	100								22
100	100	100	100	100								23
100	100	100	100	100								24
C	C	C	C	100					120			25
100	100	100	100	100	100							26
100	100	100	100	100	100					120	125	27
100	100	100	100	100	100	100		100				28
100	100	100	100	100	100			100		120		29
100	100	100	100	100	100	130						30
120	120	120	110	110	110							31
29	28	30	27	28	22	6	1	4	3	5	5	Count
100	100	100	100	100	100	110	.			120	115	Median
105	105	105	105	105	105	110		..	.	115	115	Mean

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

Characteristic M (3000) F2

TABLE 56

Unit —

Ionospheric Data

Latitude 10 2°N

Month March, 1962

75°E Mean Time

Longitude 77 5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	3 35	S	3 35	3 45	3 45 _{US}	3 30	S	3 10	2 70	2 60	2 60	2 60
2	3 25	3 50 _s	3 45	3 35	3 45 _{US}	3 45	3 25 _{US}	3 20 _{US}	2 90	2 55	2 55	2 50
3	FS	FS	3 40	F	3 40 _{US}	3 40	3 20	3 20 _{US}	2 65	2 60	2 55	2 55
4	3 10	3 10	3 10	S	3 10	3 15	3 10	3 20	2 45	2 45	2 60	2 50
5	3 25	3 35 _{US}	3 40	3 40 _{US}	3 40 _s	3 35	3 20 _{US}	3 20	2 85	2 45	2 55	2 60
6	3 30	3 40 _r	3 40	3 10 _F	3 25	F	3 10 _r	3 00	2 70	2 60	2 70	2 65
7	3 20	F	3 15	3 30	3 25	3 30	3 05	3 10	2 75	2 35	2 45	2 40
8	3 50 _F	3 45	S	3 50	3 45	3 55	3 25	3 40	3 20	3 00	2 30 _{IT}	2 50
9	3 35	3 50	3 65	3 50	3 45	E	3 30	3 40	3 20	2 80	2 40	2 50
10	3 45	3 60 _F	3 60 _r	3 50	3 35	E	3 25	3 15	2 70	2 60	2 60	2 65
11	3 10	3 25	3 50	3 50	3 40	S	3 20	3 35	3 20	2 80	2 50 _{EX}	2 70
12	3 10	3 10	3 35	3 30	3 35	3 50	3 35	3 40	3 20	3 00	2 70	2 45
13	3 20	3 30	3 30	3 20	3 15	3 25	S	3 40	3 20	3 05	2 60	2 40
14	3 20	3 30	3 45	3 60	3 35	3 30	3 30	3 10	2 70	2 65	2 60	2 55
15	3 10	3 30	3 50	3 40	3 35	3 35	3 35	3 20	C	C	C	C
16	3 20	3 10 _{US}	3 30	S	3 20	S	2 90	3 10	2 70	2 45	2 50	2 45
17	3 05	3 30	3 40 _{US}	F	F	3 25	3 20	3 10	2 65	2 50	2 50	2 40
18	3 25	3 40	3 35	3 30	3 25	3 35	3 20	3 30	2 80	C	C	C
19	3 25	3 30	3 25	3 30	3 15	3 30	3 10	3 10	2 55	2 45	2 45	C
20	3 30	3 20	3 15	3 15	S	3 15	3 15	2 95	2 60	2 45	2 40	2 45
21	F	C	C	F	F	3 50	F	3 20	2 80	2 45	2 60	2 60
22	F	FS	FS	S	3 45	3 30	S	3 00	2 65	2 50	2 50	2 50
23	F	F	F	FS	3 40	3 30	FS	3 15	2 80	2 40	2 50	2 45
24	FS	S	S	S	S	S	3 40	3 30	3 10	2 80	2 30 _S	2 40
25	FS	FS	FS	3 20 _S	S	3 35	3 20	3 05	C	C	C	C
26	3 10	3 20	F	3 15	3 25	3 30	3 25 _{US}	3 10	2 80	2 50	2 50	2 55
27	F	F	C	C	C	C	C	2 90	2 70	2 40	2 45	2 50
28	FS	FS	3 45	3 40	3 30	3 45	3 50	3 30	3 00	2 45	2 40	2 40
29	3 15 _{US}	3 20	3 10 _S	2 80	2 90 _{US}	2 90 _{US}	3 00	3 15	3 10	2 95	2 75	2 50
30	3 20	3 35	3 25	3 25	3 40	3 60	3 30	3 20	2 85	2 40	2 50	2 60
31	3 20	F	3 20	3 20 _F	3 25	F	F	3 25	3 00	B	B	2 65
Count	23	20	23	22	25	23	24	31	29	27	27	27
Median	3 20	3 30	3 35	3 30	3 35	3 30	3 20	3 20	2 80	2 50	2 50	2 50
Mean	3 20	3 30	3 35	3 30	3 30	3 35	3 20	3 20	2 85	2 60	2 50	2 50

Sweep 10 Mc to 250 Mc in 27 seconds

Characteristic M (3000) F2
 Unit —
 Month March, 1962

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	Remarks	Date
2 60	2 60	2 50	2 60	2 60	2 60 ^{us}	2 60 ^{us}	2 50 ^{us}	2 55 ^{us}	2 85 ^{us}	3 10	3 20		1
2 45	2 50	2 55	2 60	2 65	2 60 ^{us}	2 45	2 20	FS	FS	FS	FS		2
2 45	2 45	2 55	2 60	2 70	2 75 ^{us}	S	2 30 ^{us}	2 40 ^{us}	F	2 90 ^{us}	3 00		3
2 55	2 60	2 65	2 65	2 60	2 50	2 40	2 30	2 40	2 55	FS	2 85		4
2 60	2 50	2 65	2 65	2 85 ^{us}	2 90	2 75	2 25	F	F	F	F		5
2 50	2 40	2 50	2 40	2 40	2 60	2 75	2 80	3 00	3 10	3 10	3 20		6
2 50	2 50	2 50	2 50	2 55	2 70	S	2 40	2 50 ^r	2 85	3 05	3 20		7
2 50	2 70	2 70	2 70	3 00	3 05	2 95	2 65	2 60	F	2 90 ^{ur}	3 30		8
2 55	2 60	2 65	2 60	2 70	2 80	2 95	2 85	2 90	F	F	3 35		9
2 60	2 60	2 55	2 60	2 60	2 60	2 80	2 70	2 70	3 00	3 20	3 40		10
2 50	2 55	2 55	2 40	2 40	2 60	2 85	2 85	2 90	3 00	3 10	3 10		11
2 50	2 55	2 50	2 60	2 65	2 75	2 70	2 60	2 55	3 75	3 05	2 20		12
2 50	2 65	2 60	C	C	2 80	2 80	2 60	2 55	2 75 ^t	3 00	3 20		13
2 60	2 60	2 55	2 70	2 80	2 80	2 95	2 80	2 80	3 00	3 10	3 10		14
C	C	2 60	2 60	C	C	C	C	3 00	3 15	3 25	3 35		15
2 50	2 55	2 50	2 40	2 50	2 60	2 60	2 45	F	F	F	F		16
2 45	2 55	2 50	2 65	2 70	2 75	2 75	2 55	2 65	2 85	F	F		17
2 45	2 50	2 50	2 50	2 65	2 70	2 50	2 25	2 40	F	3 00	3 10		18
2 40	2 50	2 50	2 50	2 60	2 65	2 60	2 35	F	F	3 00	3 20		19
2 50	2 50	2 50	2 50	2 55	2 65	2 60	F	F	F	F	3 10 ^r		20
2 60	2 50	2 60	2 65	2 70	2 75	2 55	2 40	F	F	F	F		21
2 50	2 55	2 60	2 65	2 70	2 80 ^s	2 55 ^s	2 45 ^s	F	F	F	F		22
2 50	2 45	2 55	2 60	S	S	S	S	FS	FS	FS	FS		23
2 45	2 45	2 45	2 50	2 55	2 60	2 50	2 30 ^r	FS	FS	FS	FS		24
C	C	C	C	2 45 ^s	2 45	S	FS	FS	FS	FS	FS		25
2 50	2 45	2 50	2 45	2 50	2 55	2 50	F	F	C	F	F		26
2 40	2 40	2 45	2 55	2 60	2 60	2 60	2 50 ^r	F	F	F	FS		27
2 50	2 40	2 50	2 50	2 60	2 60	2 80	2 30	F	S	3 10	3 20		28
2 20	2 45	2 55	2 65	2 60	2 70	2 65 ^{us}	2 50	2 50	F	2 80	2 60 ^{us}		29
2 45	2 40	2 40	2 55	2 65	2 70	2 75 ^s	2 40	F	F	3 30 ^r	F		30
2 55	2 45	2 50	2 60	2 70	2 85	2 75	2 45	F	F	F	F		31
29	29	30	29	28	29	26	26	16	11	16	18		Count
2 50	2 50	2 50	2 60	2 60	2 70	2 70	2 45	2 60	2 85	3 10	3 20		Median
2 50	2 50	2 55	2 55	2 65	2 70	2 70	2 50	2 65	2 90	3 05	3 15		Mean

Sweep 10 Mc to 25.0 Mc in 27 seconds

Characteristic M (3000) F2
 Unit —
 Month March, 1962

TABLE 56 (contd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2°N.
 Longitude 77.5°E.

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	3 40	S	3 50s	3 50s	3 40us	3 20	3 05	2 90	2 55	2 55	2 70	2 60
2	3 35s	3 30	3 40us	3 40s	3 40s	3 40	3 25s	3 05	2 80	2 45	2 50	2 55
3	3 15UF	3 40UF	FS	F	3 45	3 40	3 10	2 90	2 55	2 60	2 55	2 50
4	3 10	3 15	3 10	3 15	F	3 15	F	3 20	2 75	2 30	2 50	2 45
5	3 30us	3 40s	3 35us	3 35s	3 40us	3 40	3 30	3 10	2 60	2 55	2 55	2 50
6	3 60F	3 45F	3 20	3 05	3 30	3 10	3 00	2 90	2 40	2 60	2 65	2 65
7	3 25	F	3 30	3 35	3 40	3 15	3 15	2 90	2 50	2 40	2 50	2 50
8	3 45	3 55	3 60	3 45	3 50	3 40	3 45	3 30	3 10	2 60	2 40	2 60
9	3 45	3 50	3 65	3 50	3 50	E	3 50	3 35	3 05	2 35	2 60	2 60
10	3 45	3 50	3 40	3 55	3 50	E	3 25	2 95	2 55	2 60	2 70	2 65
11	3 25	3 35	3 60F	3 40	3 35	3 15	3 40	3 30	3 10	2 45	2 65	2 60
12	3 10	3 30	3 30	3 20	3 40	3 50	3 40	3 40	3 20	2 90	2 50	2 55
13	3 25	3 40	3 20	3 10	3 25	S	3 30	3 30	3 15	2 85	2 30	2 45
14	3 30	3 40	3 45	3 30	3 40	3 45	3 25	2 95	2 50	2 60	2 60	2 50
15	3 10	3 40	3 45	3 40	3 35	3 40	3 30	2 90s	C	C	C	C
16	3 25	3 25	3 30	3 30us	3 30us	2 95	3 15	2 95	2 55	2 60	2 50	2 45
17	3 15	3 30	F	F	3 25	3 30	3 25	2 85	2 45	2 60	2 45	2 40
18	3 30	3 45us	3 30	3 35	3 30	3 40	3 25	3 00	2 50	C	C	C
19	3 30	3 35	3 00	3 30	3 20	3 20	3 05	2 75	2 45	2 45	C	C
20	F	3 20us	3 20F	S	3 20	3 25	3 00	2 80	2 50	2 40	2 40	2 45
21	F	C	C	F	3 40	S	3 20	3 00	2 45	2 50	2 45	2 50
22	F	3 40	3 25	S	3 30	3 10	3 10	2 85	2 50	2 50	2 45	2 50
23	F	F	FS	3 45	3 40	3 40	3 15	2 95	2 55	2 45	2 45	2 50
24	3 45	S	S	S	S	3 40	3 40	3 20	3 00	2 60	2 30	2 40
25	FS	FS	FS	3 35s	3 40	3 35	3 20	2 85	C	C	C	C
26	F	3 25	3 20	3 25	3 40	3 30	3 20	2 95	2 55	2 55	2 50	2 50
27	3 30	F	C	C	C	C	C	2 85	2 50	2 40	2 45	2 45
28	FS	3 25us	3 40	3 20	3 40	3 40	3 30	3 10	2 70	2 40	2 40	2 50
29	3 20	3 30	2 95	S	S	3 00	3 20	3 20	3 00	2 90	2 60	2 40
30	3 20	3 30	3 25	3 45	3 60	3 40	3 20	3 00	2 65	2 50	2 50	2 50
31	3 20	3 25F	3 20	3 20F	F	3 50	3 35	3 10	2.75	2.20H	2.50	2 50
Count	24	24	24	23	26	26	29	31	29	28	27	27
Median	3 30	3 35	3 30	3 35	3 40	3 40	3 25	2 95	2 55	2 50	2 50	2 50
Mean	3 30	3 35	3 30	3 35	3 40	3 30	3 25	3 05	2 70	2 55	2 50	2 50

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

Characteristic M (3000)F2

TABLE 56 (concl'd)

Unit Mc —

Ionospheric Data

Latitude 10 2° N

Month March, 1962

75°E Mean Time

Longitude 77 5° E.

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

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

Characteristic foF2
Unit Mc
Month April, 1962

TABLE 57
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	9.2	8.0	6.8	6.1	5.0	3.9 ^{us}	5.6	7.8	8.5	7.8	7.5	7.8
2	7.2	5.7	4.3	3.9	3.3	2.6	4.8	7.7	9.5	10.2 ^H	8.3	8.0
3	9.1	7.6 ^s	6.7	6.3 ^s	6.1	4.4 ^{us}	5.1 ^s	7.7	9.5	9.1	7.6	7.7
4	9.8 ^{fs}	FS	FS	FS	FS	4.2 ^{fs}	4.9 ^{us}	8.2	9.4	8.8	8.1	8.5
5	F	7.6 ^{us}	6.2 ^{us}	5.0 ^{fs}	3.1 ^{fs}	E	4.6	C	9.2	9.6	9.0 ^H	8.3
6	F	8.6	F	4.6	3.2	C	C	C	C	C	C	C
7	5.8	5.6	5.0	F	4.0	3.6 ^f	5.4	7.6	9.3	10.0	9.0	8.5
8	7.4	6.6	5.8	4.4	2.6	E	4.8	7.8	9.6	10.2 ^H	7.8	7.8
9	8.0	8.2	F	F	F	4.4	5.4	8.4	9.2	9.8	9.0	9.0
10	8.6	7.3	6.2	4.8	2.9	1.6	4.8	8.0	9.7	9.6	8.8	8.9
11	9.5 ^{us}	8.2	6.4	6.6 ^{us}	4.8 ^{us}	3.0	5.5	8.6	10.0	10.2 ^H	9.4	9.6
12	9.3 ^{us}	6.9 ^{us}	6.4 ^{fs}	6.4 ^{us}	4.8	R	5.4 ^{us}	8.0	9.2	9.0	8.6	8.8
13	F	F	7.8 ^{uf}	6.4 ^{us}	3.9 ^{us}	2.3 ^R	5.8	8.0	9.4	10.4 ^H	8.4	8.4
14	F	F	FS	FS	FS	4.4 ^{fs}	5.8 ^{us}	8.3	9.4	9.0	8.1	8.4
15	FS	F	5.5	FS	FS	2.5	5.6 ^{us}	8.2	9.8	C	C	C
16	F	6.8 ^f	F	F	6.2 ^f	4.8	5.8	8.6	10.0	9.6	9.4	9.4
17	F	F	8.8	7.8	7.6 ^f	5.8	6.8	8.6	9.4	8.6	8.8	C
18	12.0	11.2	8.4	5.8 ^f	F	F	6.3	8.6	10.6	10.4	9.0	9.4
19	F	9.0	8.8	F	F	4.0	7.4	8.4	8.8	8.2	8.2	8.6
20	10.0	10.0	7.4	5.8	4.6	2.9	5.8	8.6	9.2	8.4	8.2	8.6
21	FS	FS	FS	FS	FS	FS	FS	8.2	9.5	9.2	8.3	8.6
22	FS	FS	FS	FS	S	FS	7.2 ^f	8.7 ^s	10.5	C	C	C
23	8.4	8.2 ^s	7.0	7.4	6.6 ^s	5.0 ^s	6.7	9.0	10.4	10.1	9.8	9.8
24	9.1 ^s	FS	FS	8.0 ^s	7.2 ^s	3.4 ^s	5.8	8.4	9.1	8.8	8.4	C
25	7.1	6.5	6.3 ^s	5.9	5.8	4.6 ^s	6.2	8.6	8.7	7.6	7.8	8.0
26	7.5 ^f	F	F	F	5.6 ^s	4.5	6.1	8.1	8.7	8.2	7.9	8.0
27	6.7	5.8 ^{uf}	5.5 ^{us}	5.3	4.1 ^{us}	2.4 ^f	5.8 ^{fs}	8.0	8.7	8.9	8.7	8.9
28	7.8 ^s	6.8	6.6	6.8	6.4 ^{us}	3.4	5.7	8.3	8.9	8.8 ^H	8.8	9.4
29	F	F	5.5 ^f	5.9	5.0 ^{uf}	F	5.6	7.5	7.9	7.8	8.1	8.3
30	7.3 ^f	5.8	4.6	3.8 ^s	3.4 ^f	2.8 ^f	5.6	7.9	8.4	8.0	7.9	8.6
Count	19	20	21	20	22	24	28	28	29	27	27	25
Median	8.4	7.4	6.4	5.9	4.8	3.5	5.6	8.2	9.3	9.0	8.4	8.6
Mean	8.4	7.5	6.5	5.8	4.8	3.7	5.7	8.2	9.3	9.1	8.5	8.6

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF2
Unit Mc
Month April, 1962

TABLE 57
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
8 3	9 0	9 4	10 5	11 3	11 7	11 2	10 3 ^{US}	10 4 ^s	11 6	10 8	9 3	1
8 4	8 8	9 3	10 5	10 9	10 9	11 0	10 7	F	F	9 4 ^F	9 6 ^s	2
8 0	8 8	9 6	10 0	11 5	11 5	10 1 ^{US}	9 0	9 4 ^{FS}	8 6 ^{FS}	FS	FS	3
9 0	9 5	9 7	10 7	11 8 ^s	11 8	11 8	11 4 ^s	FS	FS	FS	FS	4
8 4	8 9	9 2	9 8	10 5	10 8	10 8	10 2	F	F	F	FS	5
8 0	8 0	8 6	9 6	10 0	9 6	11 4	10 4	10 4	11 0	9 2	6 9 ^{VF}	6
8 1	8 6	9 6	10 6	11 6	11 4	10 8	10 6	11 2	11 0	9 8	8 6	7
8 6	8 6	8 6	8 9	9 3	9 4	9 4	9 2	9 6	10 4	9 4	8 6	8
9 0	9 8	10 0	10 6	10 8	11 2	10 8	9 4	8 9	C	10 6	11 0	9
9 7	9 8	10 6	11 0	11 2	11 8	12 5	12 4 ^{US}	10 1	9 8	9 6	9 3	10
10 0	10 6	10 8	11 6	12 6	12 6	C	12 0	11 4	11 0	10 8	10 6	11
9 0	9 2	9 9	10 6	11 4	C	C	C	F	F	F	F	12
8 9	9 6	10 4	11 2	11 6	12 0 ^{US}	12 2 ^{US}	11 0 ^{US}	9 8 ^F	F	FS	FS	13
8 7	9 2	9 5	10 0	10 8 ^{US}	10 6 ^{US}	10 4 ^{US}	9 2	FS	FS	FS	FS	14
9 4	10 0	10 8	11 0	11 4 ^{US}	12 0 ^{US}	12 6 ^{US}	11 0	F	F	FS	FS	15
9 8	9 8	10 0	10 2	11 0	11 4	11 4	10 0	F	F	F	F	16
9 8	9 8	10 1	10 9	10 8	13 0	12 8	11 6	11 2	F	F	11 6	17
10 4	11 4	12 0	11 8	11 0	12 6	12 0	11 4	F	F	F	F	18
9 0	9 8	10 4	11 6	11 7	11 0	11 2	10 8	9 4 ^F	F	8 0 ^F	F	19
9 2	9 8	10 8	11 6	11 8	12 2	12 4	10 6	F	F	9 2 ^F	F	20
9 4	10 9	11 3	12 0	12 5	13 0	11 7 ^{US}	10 4 ^{FS}	FS	FS	FS	FS	21
C	C	10 8	11 4	11 9	12 6	12 4	11 4	10 2 ^s	10 2	10 3	9 5 ^{US}	22
10 7	11 5	11 7	12 2	13 1	13 6	13 2	11 6 ^s	S	S	9 8 ^s	9 2	23
C	C	11 1	11 8	12 6 ^s	12 6 ^s	11 9	10 3	S	S	S	8 8	24
8 5	9 3	9 6	10 4	11 0	11 2	11 0	9 8 ^{US}	S	9 0	8 2	FS	25
8 8	9 6	10 3	10 8	12 2	12 4	11 5	10 5	F	8 4 ^{FS}	7 3	7 2	26
9 3	9 9	10 1	10 5	11 1	11 7	11 6	11 1	10 1	8 8	8 6	8 3	27
9 7	9 9	10 2	10 6	10 8	11 6	11 7	10 5	9 7 ^F	8 6 ^F	F	F	28
8 9	9 5	10 5	11 3	11 6	12 0	11 2 ^{VR}	10 3	F	F	F	7 3 ^{US}	29
9 1	10 0	10 7	11 1	11 5	11 6	11 9	11 2	10 5	9 1	7 4	6 9	30
28	28	30	30	30	29	28	29	15	13	16	16	Count
9 0	9 7	10 2	10 7	11 4	11 7	11 6	10 6	10 2	9 8	9 4	9 0	Median
9 1	9 6	10 2	10 8	11 4	11 7	11 5	10 6	10 2	9 8	9 3	8 9	Mean

Sweep 1.0 Mc 25.0 Mc to in 27 seconds

Characteristic foF2
Unit, Mc.
Month, April, 1962.

TABLE 57 (contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	8.8	F	6.4	5.5	4.4	3.2	6.5	8.2	8.5	7.4	7.6	7.8
2	6.2	4.9	4.0	3.6	3.0	2.7	6.6	8.8	10.1	9.2	7.9	8.2
3	8.9	7.1 _{us}	6.3 _{us}	5.7	5.3 _s	3.4	6.5	9.0	9.6 _{us}	7.8	7.7	7.7
4	9.8 _{FS}	FS	FS	6.0 _{FS}	FS	3.6	6.6	9.0	9.0	8.0	8.2	8.9
5	8.9 _{us}	7.1	5.6 _{us}	4.4 _{us}	2.2 _{FS}	2.2	6.2	C	9.6	9.4 _H	8.5	8.2
6	9.2	7.6	F	3.8	C	C	C	C	C	C	C	C
7	6.0	5.8	F	4.0	F	3.3	6.6	8.4	9.8	9.2 _H	9.0	8.0
8	7.0	6.5	5.4	3.6	1.9	2.6	6.5	8.5	10.2	8.6 _H	7.6	8.4
9	8.1	F	F	F	7.4 _{us}	3.5	7.0	9.2	9.8	9.5	9.0	9.0
10	7.8	6.8	5.4	3.5	2.5	2.7	6.6	9.2	10.0	9.2	8.8	9.0
11	9.2	6.9	6.6	6.0 _s	3.9 _{us}	2.9	7.0	9.4	9.8	9.6	9.6	9.7
12	8.0 _{us}	6.4 _{us}	6.0	6.3 _{us}	3.1	2.7	C	8.6	9.4	8.9	8.8	9.0
13	F	F	F	5.0 _{us}	2.8	3.2	7.2	8.6	10.1	9.4 _H	8.2	8.6
14	F	F	F	FS	FS	3.5 _{us}	7.2	8.8	9.6	8.4	8.2	8.6
15	FS	7.0 _{us}	4.8	FS	3.5 _{us}	3.4 _{us}	7.2	9.0	9.8	C	C	C
16	F	F	6.8 _F	F	5.6	4.4	7.6	9.4	9.8	9.0	9.4	9.6
17	F	8.8	8.8	7.6	F	5.6	8.0	9.4	8.6	8.6	C	9.4
18	11.4	F	6.6	5.6	5.6	4.2	7.6	9.8	10.5	9.8	9.1	9.8
19	9.2	8.6	F	6.4	5.4	3.7	8.4	8.8	8.4	8.0	8.4	9.0
20	10.0	8.6	6.6	5.4	3.8	3.6	7.4	9.0	9.0	8.3	8.4	8.8
21	FS	7.3 _{us}	FS	FS	FS	FS	7.1	9.1	10.4	8.6	8.3	9.0
22	FS	FS	FS	FS	FS	FS	8.4	10.0	11.4	C	C	C
23	8.0	7.4	6.9	6.8 _s	5.9 _s	5.7 _s	7.9	10.0	10.4	9.8	9.7	10.0
24	8.4	FS	7.8 _{us}	8.3	5.6 _s	3.8	7.7	9.0	9.0	8.6	8.6	C
25	6.6	6.4	6.0 _s	5.8	5.6	4.6 _s	7.5	8.8	8.0	7.7	7.7	8.4
26	7.2 _{us}	F	F	F	5.0	4.4	7.3	8.6	8.6	8.2	7.8	8.3
27	6.3	5.5	5.3	4.8	2.7 _s	2.8	6.8	8.5	9.0	9.0	8.6	9.0
28	7.4 _{FS}	6.5	6.5	6.6	5.3 _{us}	3.6	7.0	8.7	8.8	8.8 _H	9.0	9.6
29	F	F	6.1 _{us}	5.5 _F	2.9	3.4	6.8	8.1	7.8	7.8	8.2	8.5
30	6.7	4.8	4.4	4.0 _F	3.7	3.7	6.5	8.3	8.1	8.0	8.3	8.8
Count	22	19	20	23	23	27	28	28	29	27	26	26
Median	8.0	6.9	6.2	5.5	3.9	3.5	7.0	8.9	9.6	8.6	8.4	8.8
Mean	8.1	6.8	6.1	5.4	4.2	3.6	7.1	8.9	9.4	8.7	8.5	8.8

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic foF2
 Unit Mc
 Month April, 1962

TABLE 57 (contd)
 Ionospheric Date
 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
8 7	9 2	9 9	11 2	11 5	11 6	10 7	10 2	F	11 5	10 3	8 3	1
8 7	9 3	9 7	10 9	10 8	11 0	10 8	F	10 4 _{us}	F	9 4 _s	9 5	2
8 4	9 2	9 5	10 6	11 9	10 8 _{us}	9 3	9 0	9 8 _{rs}	FS	FS	FS	3
9 6	9 4	10 2	11 4	12 4	11 7	11 8 _s	10 2 _{FS}	FS	FS	FS	F	4
8 5	9 0	9 7	10 4	10 8	10 4	10 6	9 5 _{us}	F	F	9 8 _{us}	F	5
8 2	8 3	9 0	9 6	9 8	11 6	11 0	9 9	11 0	10 4	8 6	6 6	6
8 4	9 2	10 4	11 2	11 8	11 4	10 4	10 8	11 4	10 2	9 2	8 0	7
8 6	7 6	9 0	9 1	9 6	9 2	9 2	9 0	10 2	10 0	9 2	8 0	8
9 5	9 8	10 4	10 8	11 0	10 8	10 2	9 0	C	C	11 0	9 7	9
9 8	10 2	10 9	11 2	11 7	12 0	12 8	11 0	10 0 _{us}	9 8 _{us}	9 3	9 8	10
10 2	10 6	11 0	12 0	12 6	C	12 4	11 5	11 0	11 0	10 8	9 8 _{us}	11
9 2	9 6	10 2	10 8	C	C	C	C	F	F	F	F	12
9 2	10 4	11 0	11 2	11 8	11 8 _s	11 6 _{us}	10 6 5	F	FS	FS	FS	13
9 0	9 2	9 8	10 8	11 0	10 5 _{us}	9 6 _{us}	F	FS	FS	FS	FS	14
9 5	10 6	10 8	11 0	11 6	12 4	12 2	10 5 _F	F	FS	FS	F	15
9 8	10 0	10 4	10 8	11 0	11 4	11 0	F	F	F	F	F	16
9 8	9 8	10 6	11 2	11 4	11 6	11 8	11 3	10 4	F	10 6	11 8	17
11 0	11 8	12 8	11 8	12 8	12 4	11 6	F	F	F	9 4	F	18
9 4	10 2	11 0	11 6	11 4	11 3	11 0	9 8	9 4 _l	F	F	10 4	19
9 5	10 0	11 4	11 6	11 8	12 6	11 4	9 6	F	F	F	S	20
9 8	11 1	11 7	12 2	12 8	12 6 _{us}	11 1	9 0 _r	FS	FS	FS	FS	21
C	10 5	11 0	11 8	11 8	12 0 _s	11 6	10 4	10 1	10 2	9 6 _{us}	8 6	22
11 1	11 6	12 2	12 7	13 5	14 0 _{us}	12 5 _s	S	S	S	10 2 _s	9 2	23
C	10 2	11 8	C	12 8 _s	11 8 _s	11 3	9 4 _s	S	S	9 5	7 9	24
9 0	9 5	9 9	10 8	11 2	11 3	10 5 _{us}	9 4	S	8 3	FS	8 3 _{UF}	25
9 1 _{vs}	9 8	10 5	11 3	11 9	12 3	10 0	F	9 1 _r	7 8 _F	7 2	7 1	26
9 6	10 0	10 3	10 9	11 4	11 8	11 7	10 6 _r	9 7	8 8	8 4	8 0	27
9 8	10 0	10 5	10 7	11 0	11 8	11 6	10 3	9 2 _{us}	F	F	F	28
9 0	10 1	10 9	11 5	12 1	11 8 _{us}	10 8	10 0 _F	F	F	F	7 7 _{UF}	29
9 7	10 2	10 9	11 2	11 5	11 6	11 5	10 9	9 8	8 2	7 4	6 8	30
28	30	30	29	29	28	29	23	14	11	17	18	Count
9 4	10 0	10 5	11 2	11 6	11 6	11 1	10 2	10 0	10 0	9 4	8 3	Median
9 4	9 9	10 6	11 1	11 6	11 6	11 2	10 1	10 1	9 7	9 4	8 6	Mean

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

Characteristic foF1
Unit Mc
Month April, 1962

TABLE 58
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77 5° E.

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

Sweep 1 0 Mc to 25.0 Mc in 27 seconds

Characteristic fo F1
 Unit Mc
 Month April, 1962

TABLE 58
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Remarks	Date
L	L	L	A	L	L								1
4.5	L	L	L	L	L								2
L	L	L	L	L	L								3
L	L	A	L	L	L								4
4.5	LH	L	L	L	L								5
4.6	4.7	4.7	4.9	L									6
4.6	5.0	4.8	4.4	L	L								7
4.9	4.5	4.8	4.8	L	L								8
4.6	4.5	4.8	L	L									9
L	L	L	L	L	L								10
L	L	L	L	L									11
L	L	L	L	L	L								12
5.0L	L	B	L	L	L								13
4.9L	L	L	L	L	L								14
L	L	L	L	L	L								15
5.0	4.8	4.9	L	L	L	L							16
5.0	4.9	5.3	L	L	L								17
5.1	A	5.3	4.4	L	L								18
5.0	4.9	5.0	5.0	L	L								19
5.1	5.0	4.8	5.1	L	L								20
L	L	L	L	L	L	L							21
C	C	I	A	L	L	L	L						22
L	L	L	L	L	L	L	L						23
C	C	L	L	L	L	L	L						24
L	I	A	L	L	L								25
L	L	L	L	L									26
L	L	L	L	L	L								27
L	L	L	L	L	L								28
L	LH	4.5	L	L	L								29
L	L	L	L	L	L								30
<hr/>													
13	8	10	6										Count
4.9	4.8	4.8	4.8										Median
4.8	4.8	4.9	4.8										Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF1
Unit Mc
Month April, 1962

TABLE 58 (contd)
Ionospheric Data
75°E Mean Time

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

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								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	4.5	4.6
6							C	C	C	C	C	C
7							L	L	L	4.7	4.6	4.6
8							L	4.9	4.7	4.8	4.8	4.6
9							L	L	L	4.5	4.9	4.7
10							L	L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	4.8L	L
14							L	L	L	L	L	5.0L
15							L	L	L	C	C	C
16									L	5.1	5.1	5.0
17							L	L	L	5.0	C	5.0
18							L	L	5.0	5.1	5.0	5.2
19							L	L	4.7	5.1	5.1	5.0
20							L	L	L	5.0	5.1	5.0
21							L	L	L	L	L	L
22							L	L	L	C	C	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
29								LH	LH	LH	L	4.8
30								L	L	L	L	L
Count								1	3	8	9	11
Median										5.0	4.9	5.0
Mean										4.9	4.9	4.9

Sweep: 0 Mc to 25.0 Mc in 27 sec.

Characteristic foF1
 Unit Mc
 Month April, 1962

TABLE 58 (contd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Remarks	Date
L	L	L	L	L									1
L	L	L	L	L									2
L	L	L	L	L	L								3
L	A	A	L	L	L								4
LH	L	L	L	L									5
4 6	4 8	4 5	4 9										6
4 3	5 0	4 8	4 7	L									7
4 5	4 4	5 0	L	L									8
4 7	4 5	4 7	5 1										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	L								13
L	L	L	L	L	L								14
L	L	L	L	L	L								15
4 8	4 9	L	L	L	L								16
5 1	5 1	5 1	L	L	L								17
5 0	A	4 7	L	L	L								18
5 1	4 8	4 6	L	L	L								19
5 2	5 0	4 8	L	L	L								20
L	L	L	L	L	L								21
C	L	L	L	L	L								22
L	L	L	L	L	L								23
C	L	L	C	L	L								24
L	L	L	L	L	L								25
L	L	A	L	L	L								26
L	L	L	L	L	L								27
L	L	L	L	L	L								28
LH	LH	LH	LH	LH	L								29
L	L	L	L	A	L								30
<hr/>													
9	8	8	3										Count
4 8	4 8	4 8											Median
4 8	4 8	4 8											Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foE
Unit Mc
Month April, 1962

TABLE 59
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								R	A	A	A	A
2								2.5	A	A	A	A
3								R	A	A	A	A
4								A	A	A	A	A
5									A	A	A	A
6									C	C	C	C
7									A	A	A	A
8									A	A	A	A
9								A	A	A	A	A
10								A	A	A	A	A
11									A	A	A	A
12							1.6	2.4	A	A	A	A
13								2.8H	A	A	A	A
14								2.4UR	A	A	A	A
15								A	A	C	C	C
16								2.6	A	A	A	A
17							2.8R	A	A	A	A	A
18								A	A	A	A	A
19							A	A	A	A	A	A
20								A	A	A	A	A
21								2.8	A	A	A	A
22								A	A	C	C	C
23								A	A	A	A	A
24								A	A	A	A	A
25								A	A	A	A	A
26								A	A	A	A	A
27								A	A	A	A	A
28								A	A	A	A	A
29								A	A	A	A	A
30								A	A	A	A	A

Count	2	2.6
Median		2.6
Mean		2.6

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foE
Unit Mc
Month April, 1962

TABLE 59
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A								1
A	A	A	B	2.8								2
A	A	A	A	A								3
A	A	A	A	A								4
A	A	A	A	A								5
A	A	A	A	A								6
A	A	A	3.0	A								7
A	A	A	3.1	A			A					8
A	A	A	A	A								9
A	A	A	A	2.8								10
A	A	A	A	A								11
A	A	A	A	B			B					12
A	A	B	B	R								13
A	A	A	A	A								14
B	A	A	A	A			A					15
A	A	A	A	A								16
A	A	A	A	A								17
A	A	A	A	A								18
A	A	A	A	A								19
A	A	A	3.3	3.4								20
A	R	3.7	A	A								21
C	C	A	A	A								22
A	A	3.6	3.5	S								23
C	C	A	A	A								24
A	A	A	A	A								25
A	A	A	3.2	2.8s								26
A	A	A	A	A								27
A	A	A	A	A								28
A	A	3.3UR	3.2R	R								29
A	A	A	A	A			A					30

		3	6	4								Count
			3.2									Median
			3.2									Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic foE
Unit - Mc
Month April, 1962

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								A	A	A	A	A
2							2.4	2.9	A	A	A	A
3							2.0	A	A	A	A	A
4							1.9	A	A	A	A	A
5									A	A	A	A
6							C	C	C	C	C	C
7								A	A	A	A	A
8								A	A	A	A	A
9								A	A	A	A	A
10							2.1	A	A	A	A	A
11							2.1	A	A	A	A	A
12							C	A	A	A	A	A
13							R	A	A	A	A	A
14								A	A	A	A	A
15							R	A	A	C	C	C
16								A	A	A	A	A
17							A	A	A	A	A	A
18								A	A	A	A	A
19							A	A	A	A	A	A
20							A	A	A	C	A	A
21							2.3	A	A	A	A	A
22							A	A	A	C	C	C
23								A	A	A	A	A
24								A	A	A	A	A
25							A	A	A	A	A	A
26							A	A	A	A	A	A
27							A	A	A	A	A	A
28								A	A	A	A	A
29							A	A	A	A	A	A
30								A	A	A	A	A
Count							6	1				
Median							2.1					
Mean							2.1					

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foE
Unit Mc
Month April, 1962

TABLE 59 (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	2.7								1
A	A	A	A	R								2
A	A	A	A	A								3
A	A	A	3.0									4
A	A	A	A									5
A	A	A	A									6
A	A	A	A									7
A	A	A	A	A								8
A	A	A	A									9
A	A	A	3.0									10
A	A	A	A	B								11
A	A	A	A	A								12
A	A	B	3.2									13
A	A	A	A	A								14
A	A	A	A	A								15
A	A	A	A									16
A	A	A	A									17
A	A	A	A									18
A	A	A	A									19
A	A	3.5	3.6									20
A	R	A	A	A								21
C	A	A	A	A								22
C	A	3.5	3.6	R								23
C	A	A	C									24
A	A	A	A	A								25
A	A	A	3.0	R								26
A	A	A	A	.								27
A	A	A	A	A								28
A	3.5 UR	3.3 UR	3.1 R	R								29
A	A	A	A	A								30
	1	3	7	1								Count
			3.1									Median
			3.2									Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic foEs
Unit Mc
Month April 1962

TABLE 60
Ionospheric Data
75°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	9 6	9 4	12 4	12 0
2								G	9 0	11 0	12 0	12 8
3								G	9 0	10 0	11 4	10 2
4								8 0 _{US}	9 2	9 2	11 2	11 8
5		2 1							9 6	11 4	12 1	12 2
6	5 2							C	C	C	C	C
7									9 0	11 8	9 8	11 4
8									12 6	12 6	12 6	12 6
9								8 3	11 0	12 8	12 6	12 4
10								G	9 0	11 2	10 0	11 2
11				3 6				G	9 6	12 0	11 2	11 7
12							G	G	8 8	11 4	12 6	12 8
13		2 4						G	8 8	11 2	10 0	12 0
14		2 4						7 4	10 4	11 8	12 0	12 8
15								7 0	10 0	C	C	C
16				3.1	2 4			G	10 0	12 2	11 8	12 4
17						3 8		G	7 6	10 0	10 8	11 8
18									8 8	11 0	12 4	12 6
19								6 8	8 8	10 2	12 8	12 8
20									8 8	10 0	12 0	12 8
21									4 8	12 2	11 8	12 2
22	3 4								9 0	9 2	C	C
23			2 6	3 6					6 8	10 8	11 2	12 2
24										9 8	12 0	12 4
25		3 4		2 7					8 2	10 4	11 4	11 4
26			2 8	S					8 4	10 4	12 2	11 4
27			3 8						7 9 _{US}	9 8	11 8	12 3
28					2 8				8 8	9 6	9 8	12 0
29									8 5	10 6	11 8	12 0
30						2 2			8 6	10 0	12 1	11 0
Count	3	4	3	4	2	2	3	25	29	27	27	25
Median								7 6	10 0	11 8	12 0	12 4
Mean								7 9	10 0	11 5	11 8	12 2

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foEs
Unit Mc
Month April, 1962

TABLE 60
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.8	12.4	9.0	14.6	9.0	3.6							1
12.0	12.0	9.8	9.4	G								2
11.0	9.0	8.8	8.0	8.8	8.0us					3.5	3.8us	3
9.8	13.2	12.0	6.0									4
12.4	12.6	12.4	10.2	6.4								5
11.6	12.4	10.8	8.8	G								6
12.4	12.6	9.8	3.6	3.0								7
12.4	14.6	12.6	9.0	S	5.6							8
12.0	11.0	9.8	8.8	8.8								9
10.0	9.8	9.0	6.0	G		7.6						10
11.8	7.6	9.2	8.8	7.0	7.0				3.8			11
12.6	12.0	8.6	6.0	6.6us								12
12.0	11.6	B	B	G								13
12.8	12.0	11.6	10.0	9.0								14
11.0	10.0	10.0	10.0	S	8.4	4.2						15
11.8	11.0	11.4	9.0	7.8		4.0					3.2	16
12.8	12.8	9.8	6.8	5.6								17
11.0	13.0	8.4	S	G								18
12.6	11.8	9.8	9.6	8.8	4.3					3.8		19
13.4	12.0	9.8	3.9	G								20
12.2	9.8	G	9.8	7.8								21
C	C	9.2	12.2	9.1								22
11.9	9.9	G	G	G	4.3							23
C	C	9.2	9.0									24
12.8	12.2	12.0	8.4	9.2								25
12.3	12.1	9.4	G	G					3.3			26
12.0	12.1	7.1	8.6	7.0						3.2		27
12.0	11.1	9.8	8.6	7.4								28
11.8	9.2	G	G	G								29
9.8	10.8	8.8	6.8	6.8	5.5	4.9	5.2					30

28	28	29	28	26	8	4	1		2	3	2	Count
12.0	12.0	9.8	8.7	6.7	5.6							Median
11.9	11.4	9.9	8.5	7.5	5.8							Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foEs
 Unit Mc
 Month April, 1962

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

Latitude 10 2° N
 Longitude 77 5° E

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

Count	6	3	2	4		1	15	28	29	27	26	26
Median	2 4						G	8 9	11 0	11 6	12 2	12 2
Mean	3 6	--	--	.	.	--	7 4	8 7	10 8	11 6	12 2	12 1

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foEs
Unit Mc
Month April, 1962

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

Latitude 10 2° N
Longitude 77 5' E

1230	1330	1430	1530 *	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.6	11.6	9.4	8.2	7.2				4.8				1
12.8	11.0	10.0	G	G								2
10.8	9.2	9.2	11.2	8.4						3.7		3
9.8	11.6	10.0	G									4
12.4	12.3	11.7	10.1									5
11.8	11.2	8.8	G	8.9								6
12.6	12.6	G	8.4									7
12.6	11.6	12.6	9.0	7.2	4.3							8
12.4	9.8	10.0	9.0									9
10.0	11.0	9.1	G		3.6	4.0						10
7.4	10.0	8.0	8.4	7.0								11
12.0	9.6	8.6	7.4									12
11.0	8.4	B	G									13
12.0	12.0	11.0	9.4	7.0								14
12.0	10.0	9.0	11.0	2.4	8.6							15
12.4	10.0	10.0	9.0		4.0							16
12.4	12.4	8.5	G									17
10.4	12.6	S	G									18
12.4	9.6	7.6	9.0	7.6	3.8						3.2	19
12.8	12.2	4.0	G									20
11.8	G	9.8	8.6								3.2	21
C	12.0	8.2	7.2 ^{US}	7.0						2.3		22
10.0	9.2	G	G	G								23
C	10.4	5.0	C									24
12.0	12.0	9.0	8.5	7.2 ^{US}								25
12.1	13.1	13.4	G	G								26
11.8	9.7	9.6	8.6									27
11.6	11.0	8.8	8.4									28
12.2	G	G	G	G								29
10.0	9.3	6.8	6.5	5.1	4.4	5.7	3.1					30
28	30	28	29	15	6	2	1	1	1	1	3	Count
12.0	11.0	9.0	8.2	7.0	4.2							Median
11.6	10.9	9.1	8.8	6.8	4.8							Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fbES
 Unit Mc
 Month April, 1962

TABLE 61
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N.
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08 ^a	09	10	11
1								2.6	3.1	3.4	3.7	3.8
2								G	3.0	3.4	3.6	3.8
3								G	3.1	3.3	3.6	3.6
4								2.5	2.9	3.3	3.5	3.6
5									3.0	3.2	3.6	3.7
6	2.5							C	C	C	C	C
7									3.0	3.3	3.6	3.8
8	2.2								3.0	3.2	3.6	3.7
9								2.6	3.0	3.4	3.6	3.8
10								G	3.0	3.4	3.7	3.8
11				1.7				G	3.0	3.4	3.6	3.9
12							G	G	3.2	3.4	3.8	3.8
13		2.0						G	3.1	3.5	3.7	3.8
14		2.3						2.7	3.2	3.5	4.0	4.0
15								2.8	3.2	C	C	C
16				2.4	1.7			2.8	3.2	3.6	4.0	4.0
17						G	G	2.9	3.3	3.5	3.9	C
18								2.8	3.2	3.5	3.8	3.9
19							2.4	2.8	3.2	3.6	3.8	3.8
20								2.7	3.3	3.8	4.0	3.9
21								2.7	3.2	3.6	3.8	3.9
22	2.4							3.0	3.2	C	C	C
23			1.8	1.9				2.9	3.2	3.5	3.8	3.9
24									3.2	3.6	3.8	C
25		2.2		1.5				2.7	3.2	3.6	4.0	4.0
26			2.5					2.8	3.1	3.5	3.7	3.9
27								2.8	3.2	3.5	3.7	3.9
28					1.9			3.2	3.3	3.5	3.8	3.8
29								2.8	3.1	3.5	3.7	3.7
30						1.9		2.7	3.1	3.5	3.7	3.8
Count	3	3	2	4	2	2	3	25	29	27	27	25
Median								2.7	3.2	3.5	3.7	3.8
Mean								2.8	3.1	3.5	3.7	3.8

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fbES
Unit Mc
Month April, 1962

TABLE 61
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	Remarks	Ditto
3 8	3 8	3 7	4 5	2 0	2 8								1
3 8	3 7	3 6	3 4	G									2
3 7	3 7	3 6	3 2	3 2	2 8						2 4		3
3 8	3 8	5 2	3 3										4
3 7	3 7	3 5	3 3	3 0									5
3 7	3 7	3 7	3 4	G									6
3 8	3 6	3 4	3 2	2 6									7
3 7	3 7	3 8	3 4	2 6	2 8								8
3 8	3 7	3 5	3 4	3 2									9
3 8	3 7	3 6	3 3	G		3 5							10
3 8	3 6	4 6	3 4						2 8				11
3 8	4 0	3 6	3 4	3 2									12
4 0	3 8	B	B	G									13
4 0	3 9	3 6	3 8	3 0									14
B	3 8	3 8	3 6	3 4	3 8	2 5							15
4 0	4 2	3 9	3 6	3 3		2 4							16
3 9	4 0	3 8	3 6	2 8									17
4 0	5 0	3 0	4 1	G									18
4 0	4 0	3 8	3 6	3 2	3 4						3 0		19
3 9	3 9	3 8	3 5	3 1									20
4 0	4 0	G	3 6	3 2									21
C	C	3 8	5 8	3 4									22
4 0	3 9	G	G	G	3 0								23
C	C	4 0	3 4										24
4 0	3 8	4 4	3 2	3 1									25
3 8	3 9	3 8	G	G					2 0				26
4 1	3 9	3 6	3 5	3 1						2 1s			27
3 9	3 8	3 7	3 5	3 0									28
3 9	3 6	G	G	G									29
3 7	3 7	3 6	3 1	3 0	2 6	3 3	3 7						30
27	28	29	29	27	7	4	1		2	2	2		Count
3 8	3 8	3 7	3 4	3 0	2 8								Median
3 9	3 9	3 7	3 5	3 0	3 0								Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fbES
Unit Mc
Month April, 1962

TABLE 61 (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 1				2 8	3 2	3 5	3 8	3 8
2							G	G	3 2	3 6	3 8	3 8
3							G		2 7	3 2	3 5	3 6
4							G		2 8	3 0	3 4	3 6
5		1 9							3 2	3 4	3 5	3 7
6	2 3						C	C	C	C	C	C
7								2 8	3 2	3 4	3 6	3 6
8								2 8	3 1	3 4	3 8	3 9
9								2 8	3 2	3 4	3 8	3 8
10							G	2 8	3 2	3 5	3 7	3 8
11							G	2 8	3 2	3 6	3 7	3 9
12							C	2 8	3 2	3 7	3 8	3 8
13	2 0						G	3 0	3 4	3 6	3 8	4 0
14	2 2							3 0	3 4	3 7	3 8	4 2
15							G	3 0	3 4	C	C	C
16				2 5				3 1	3 5	3 8	4 2	4 0
17							3 8	3 1	3 5	3 7	C	4 0
18								3 0	3 5	3 7	3 8	4 0
19								2 7	3 0	3 4	3 7	3 8
20								2 4	3 0	3 7	C	3 8
21												
22	3 0s						G	3 0	3 4	3 7	3 9	3 9
23								3 0	3 4	C	C	C
24			2 2	1 7				3 0	3 4	3 7	3 9	3 9
25	2 6	2 0						3 0	3 4	3 6	3 8	C
26			2 6					2 5	3 0	3 4	3 7	4 0
27								2 9	3 3	3 6	3 8	3 9
28								2 7	2 9	3 3	3 5	3 8
29								3 3	3 4	3 6	3 9	3 8
30								2 3	3 1	3 4	3 6	3 8
								2 9	3 1	3 6	3 6	3 7
Count	5	2	2	3			14	28	29	26	26	26
Median	2 3						G	3 0	3 4	3 6	3 8	3 9
Mean	2 4							2 7	2 9	3 3	3 6	3 9

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic, fbES
 Unit Mc
 Month April, 1962.

TABLE 61 (contd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic Fmin
Unit Mc
Month April, 1962

TABLE 62
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

205

Characteristic Fmin
Unit Mc
Month April, 1962

TABLE 62
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

12	13	14	15	16	17	18	19	20	21	22	23	Remarks	Date
2.8	2.7	2.8	2.5	2.3	2.4	2.0	2.0	1.8	2.6	2.4	2.0		1
3.0	2.8	2.6	3.3	2.3	2.5	2.3	2.4	2.0	2.4	1.9	2.4		2
2.6	2.6	2.6	2.4	2.2	2.4	2.4	2.0 ^{UP}	FS	FS	1.6	2.2		3
2.7	2.5	2.4	2.6	2.8	2.4	2.0	2.0 ^S	FS	FS	FS	FS		4
2.7	2.8	2.7	2.4	2.3	2.4	1.9	1.8	F	F	F	1.6		5
2.7	2.7	2.7	2.6	4.0	2.6	2.7	2.4	2.7	2.2	2.8	3.2		6
2.6	2.8	2.8	2.8	2.2	2.5	2.2	2.8	2.5	2.4	2.4	3.0		7
2.7	2.6	2.4	2.4	1.6	2.4	2.7	2.5	2.3	2.4	1.7	2.5		8
2.9	2.8	2.6	2.7	2.4	2.6	2.5	2.6	2.2	C	2.7	2.5		9
2.8	2.8	2.8	2.6	2.2	2.6	1.9	2.0	2.3 ^S	2.3	1.8	2.0		10
3.1	3.0	3.6	2.6	3.0	2.6	C	2.4	1.8	2.2	2.8	2.5		11
3.0	3.2	2.6	2.4	2.2	C	C	C	C	2.4	2.4	1.9		12
3.2	3.0	B	3.6	2.4	2.7	2.2	2.0	FS	FS	FS	FS		13
3.0	2.9	2.8	3.0	2.5	2.4	2.2	2.0 ^{US}	FS	FS	FS	2.4		14
4.2	3.0	2.6	2.5	2.4 ^{US}	2.3	2.2	3.2	2.6	2.8 ^F	FS	FS		15
3.2	3.0	3.0	2.8	2.5	2.8	1.7	2.5	F	2.4	2.3	1.8		16
2.9	2.6	2.9	2.8	2.0	2.8	2.4	2.5	2.5	2.6 ^S	2.2	2.3		17
2.8	2.8	S	S	2.6	2.7	3.8	1.8	F	F	2.5	F		18
2.8	2.8	2.8	2.6	2.3	2.6	2.5	1.8	2.4	F	2.0	2.4		19
3.0	3.0	3.0	2.6	2.5	2.7	2.4	1.7	2.4	2.0	F	F		20
3.0	3.0	2.7	2.8	2.5	2.6	2.2	FS	FS	FS	FS	2.2		21
C	C	2.8	2.5	2.7	2.6	2.5	2.0	2.0	1.9	2.0	1.6		22
2.8	2.9	2.8	2.5	2.4	2.4	2.6	S	S	S	2.0	1.6		23
C	C	3.0	2.8	3.2	2.6	2.1	2.4	S	S	S	1.6		24
3.0	2.8	2.8	2.6	2.4	2.6 ^{US}	2.2	1.8	S	S	2.0	2.1 ^S		25
2.8	3.0	2.7	2.8	2.3	2.6	2.3	2.8	F	1.6	1.9	1.8		26
2.9	3.0	2.9	2.7	2.4	2.6	2.4	2.2	2.2	2.1	1.9	2.0		27
3.1	3.0	2.8	2.6	2.4	2.6	2.4	2.2	1.9	1.7	1.8	F		28
3.1	3.1	3.0	2.9	2.3	2.2	2.6	1.9	1.7	F	1.9	1.4		29
3.0	3.1	2.9	2.6	2.3	2.5	1.7	1.9	2.3	2.5	2.4	2.4		30

28	28	28	29	30	29	28	27	17	17	22	24	Count
2.9	2.8	2.8	2.6	2.4	2.6	2.3	2.0	2.3	2.4	2.0	2.2	Median
2.9	2.9	2.8	2.7	2.5	2.5	2.3	2.2	2.2	2.3	2.2	2.1	Mean

Sweep 1 @ Mc to 25 @ Mc in 27 seconds

Characteristic Fmin
Unit Mc
Month April, 1962

TABLE 62 (contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

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

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic Fmin Unit Mc Month April, 1962

TABLE 62 (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	Remarks	Date
2.9	2.8	2.6	2.5	2.1	2.2	1.6	1.5	1.9	2.2	2.3	1.7		1
2.8	2.8	2.5	2.5	2.4	2.2	2.4	2.9	2.4	2.3	2.4	2.0		2
2.8	2.6	2.6	2.1	2.4	2.4	2.3	2.0 ^{UF}	FS	FS	1.6	2.4 ^s		3
2.6	2.4	2.6	2.1	2.8	2.0	2.0 ^s	FS	FS	FS	FS	1.9		4
2.9	2.8	2.6	2.1	2.8	2.2	1.6	S	F	F	1.8	2.6		5
2.8	2.6	2.6	3.1	3.0	2.6	2.8	2.5	2.8	2.6	2.7	2.7		6
2.6	2.6	3.4	2.5	3.0	2.2	2.0	2.4	2.4	2.4	2.6	2.7		7
2.7	2.4	2.4	1.8	2.2	2.4	2.4	3.3	2.4	1.7	1.4	2.8		8
2.8	2.8	2.7	2.6	2.9	2.6	2.5	2.5	C	C	2.7	2.2		9
2.7	2.6	2.8	2.4	2.7	2.0	2.0	1.4	2.4 ^s	2.4	2.0	2.6		10
3.2	2.8	2.8	2.6	2.8	C	2.4	2.0	2.4	2.4	2.4	2.4		11
2.8	2.8	2.9	2.4	2.4	C	C	C	2.2	2.6	2.6	2.0		12
3.0	3.8	3.8	2.7	3.1	2.4	1.9	2.0	2.0 ^{UF}	FS	FS	2.4 ^{UF}		13
3.0	3.0	2.8	2.6	2.3	2.0	2.4	FS	FS	FS	2.4 ^{US}	2.0		14
3.0	2.8	2.6	2.3	2.0	2.2	2.6	2.6	2.6 ^{UF}	2.8	2.4	2.4		15
3.0	3.0	2.8	2.7	3.1	2.3	1.8	F	F	2.6	2.6	1.9		16
2.8	2.9	2.7	3.2	2.7	2.6	2.4	2.1	2.6 ^s	2.5	2.3	2.4		17
2.6	2.5	S	3.0	3.2	2.6	2.0	F	F	F	2.6	2.3 ^s		18
3.0	2.8	2.6	2.4	2.3	2.5	2.4	2.5	2.4	2.4	2.7	1.7		19
3.0	2.9	2.7	2.5	3.0	2.4	2.5	2.0	F	F	F	1.6		20
3.9	2.8	2.5	2.7	3.0	2.5	1.6	FS	FS	FS	2.0	1.6		21
C	2.8	2.5	2.6	2.8	2.4	2.6	1.6	1.6	1.6	1.8	1.8		22
2.8	2.9	2.6	2.5	2.8	2.4	2.0	S	S	S	1.9	1.9		23
C	2.8	2.9 ^s	C	1.0 ^s	2.6	2.5	S	S	S	1.6	1.9		24
3.0	2.8	2.7	2.4	2.4	2.5	2.0	1.8	S	2.1	2.2 ^s	2.4		25
3.1	2.8	2.6	2.5	2.6	2.5	2.8	F	2.4	2.9	1.9	2.1		26
3.1	2.9	2.8	2.5	2.6	2.7	2.6	2.2	2.0	2.1	2.5	2.1		27
3.0	3.0	2.5	2.4	2.6	2.4	2.2	2.2	1.9	1.7	F	2.0		28
2.9	2.9	2.6	2.5	2.4	2.6	1.8	1.9	1.6	1.9	1.7	1.6		29
3.1	2.9	2.6	2.4	1.8	1.8	2.3	2.2	2.6	2.4	2.4	2.5		30
2.8	3.0	3.0	2.9	3.0	2.8	2.9	2.0	1.8	1.9	2.6	3.0		Count
2.9	2.8	2.6	2.5	2.7	2.1	2.3	2.0	2.4	2.4	2.4	2.0		Median
2.9	2.8	2.7	2.6	2.6	2.4	2.2	2.1	2.3	2.2	2.2	2.1		Mean

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

Characteristic h'F2
Unit Km
Month April, 1962

TABLE 63
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	350
2								L	295	300H	L	350
3							L	L	L	L	L	L
4							L	L	L	L	L	340
5									305	L	L	340
6									C	C	C	C
7								L	L	300	300	320
8							L	285	300	300	335	360
9								L	I	290	310	340
10							L	L	L	320	320	300
11								260	L	L	L	300
12								L	L	L	L	310
13								L	L	L	L	340
14								L	L	L	L	L
15								L	I	C	C	C
16										L	320	310
17							L	L	L	L	310	C
18							L	L	300	300	320	325
19								L	L	330	330	320
20								L	L	310	330	320
21							L	L	L	L	L	I
22							L	L	L	C	C	C
23							L	L	L	L	L	L
24							L	L	L	L	L	C
25							L	L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	340	L
29								L	L	L	LH	355
30								L	L	L	L	L
Count								2	4	8	10	16
Median										300	320	330
Mean										305	320	330

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'F2
 Unit Km
 Month April, 1962

TABLE 63
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
330	L	L	A	L	L							1
320	L	300	L	L	L							2
310L	315	L	L	L	L							3
300L	305L	A	L	295L	L							4
L	L	L	L	L								5
325	325	330	325	L								6
305	320	320	290	L	L							7
355	310	320	315	L	L							8
310	290	300	L	L								9
300L	L	L	L	L	L							10
320	300	L	L	L								11
L	L	L	300	L								12
320	L	B	L	L								13
320	L	L	L	L								14
L	L	L	L	L	L							15
310	280	310	L	L	L	L						16
310	300	330	L	L								17
330	A	310	300	L								18
300	310	310	310	L								19
330	310	300	310	L								20
L	330	L	300	L	L							21
C	C	L	A	L	L	L						22
L	L	L	L	L	L	L	L					23
C	C	L	L	L	L	L	L					24
L	L	A	L	L	L	L	L					25
L	330L	L	L	305								26
L	L	L	L	L								27
340L	335L	330L	L	L	L							28
L	325	310	300	315								29
L	L	L	315	305								30
18	15	12	10	4								Count
320	310	310	305									Median
320	315	315	305									Mean

Sweep 1 0 to 25 0 Mc in 27 seconds

Characteristic h'F2
Unit Km
Month April, 1962

TABLE 63 (contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77 5° E.

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	360	L
2							260	L	300H	LH	L	340
3							L	L	L	L	L	L
4							L	L	L	L	L	315L
5									310H	L	320	335
6							C	C	C	C	C	C
7							L	L	L	310	335	315
8							L	290	300	320	355	335
9							L	L	L	290	330	310
10							L	L	L	L	315	310
11								L	L	L	300UL	320
12								L	L	L	320	310
13								L	L	L	320	L
14							L	L	L	L	L	320L
15							L	L	L	C	C	C
16									L	310L	340	320
17							L	L	L	310	C	315
18							L	L	300	320	320	350
19							L	L	290	335	330	325
20							L	L	L	330	340	340
21							L	L	L	L	L	L
22							L	L	L	C	C	C
23							L	L	L	L	L	L
24							L	L	L	L	L	C
25							L	L	L	L	L	L
26							L	L	L	L	L	L
27							L	L	L	L	L	L
28								L	LH	L	L	350
29								LH	LH	LH	L	340
30								L	L	L	L	L
Count							1	1	5	8	13	17
Median									300	315	330	320
Mean									300	315	330	325

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'F2
 Unit Km
 Month April, 1962

TABLE 63 (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
320	L	L	L	L	L								1
320	L	L	L	300	L								2
315L	L	L	L	L	L	L							3
320	A	L	L	290L	L	L							4
L	L	I	L	L	L								5
315	340	310	310										6
270	340	320	300	L									7
320	320	320	L	L									8
305	290	295	310										9
300L	L	L	L	L	L	L							10
300	L	L	L	L	L								11
320	L	L	L	L	C								12
L	L	L	L	L	L								13
L	L	L	L	L	L								14
L	L	L	L	L	L								15
300	330	315	L	L	L								16
320	310	320	L	L	L	L							17
315	A	300	L	L									18
310	310	280	L	L									19
330	310	300	L	L									20
320	L	L	L	L	L	L							21
C	L	L	L	L	L	L							22
L	L	L	L	L	L	L							23
C	L	L	C	L	L	L							24
L	L	L	L	L	L	L							25
L	L	A	320t	L									26
L	310L	L	L	L									27
335L	L	320L	L	L	L								28
320LIT	325	300	305	L	L								29
L	L	L	310	A									30
19	10	11	8										Count
320	315	310	310										Median
315	320	305	305										Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'F
Unit Km
Month April, 1962

TABLE 64
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	230	240	240	240	235	235	250	240	220	200H	205	200
2	220	235	250	260	260	240	260	240	220	200H	200	190H
3	220	240	220	240	240	210	235	230	205	200	195	180
4	230s	250	230s	FS	220	210	245	220	200	195	180	200
5	270	270	260	240	225	E	245	C	215	200	L	205
6	240	260	240	230	230	C	C	C	C	C	C	C
7	300	300	240	270	280	250	245	240	220	210	200	200
8	290	260	240	240	240	F	250	225	220	210	200	190
9	320	300	F	F	230	215	255	230	220	200	200	200
10	270	260	235	200	300	210	240	225	220	220	200	200
11	260	240	260	250	220	240	250	230	220	210	200	200
12	300	320	310	260	220	R	240	225	220	205	200	205
13	260r	260	240	210	220	250	240	220	200	200	195	200
14	320	320	Fs	280UF	240	220	240	220	205	200	200	200
15	260	220	220	240	220	220	240	220	220	C	C	C
16	360	370	300	260	240	210	255	235	215	220	220	200
17	280	275	250	240	225	220	260	240	215	210	200	C
18	260	250	240	240r	240	225	250	235	215	200	210	205
19	340	290	265	235	230	225	245	240	220	200	215	210
20	265	245	235	240	230	240	260	230	215	205	210	205
21	1s	300	280	250s	220	220	250	235	215	205	190	180
22	1s	1s	1s	1s	1s	1s	240	235	215	200	C	C
23	315	300	305	280	S	230s	260s	240	220	200r	200r	215
24	310	300	300	260	S	S	240	215	200r	200	200	C
25	300	300	300	300	240	220	240	220	200r	200	200	195
26	300	F	330UF	300	270	270	250	240	220	200	200	200
27	305	295	290	245	225	250F	245	230	220	210	200	200
28	300	300	300	270	235	230	260	240	225	200	210	210
29	1s	300	260	240	220	F	250	240	205	210	195H	195
30	280	230	245	260	250	260	250	255	210	200	200	200
Count	27	28	27	27	27	25	29	28	29	27	26	25
Median	280	270	250	245	230	225	250	230	215	200	200	200
Mean	280	275	260	250	235	230	250	230	215	205	200	200

Sweep 1 0 Mc to 25 Mc in 27 seconds

Characteristic h'F
 Unit Km
 Month April, 1962.

TABLE 64
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N.
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
200	195	195H	A	240	250	275	340	300	260	220	220	1
200	195L	220	195	200	230	270	340	F	260	240	220	2
185	185	200	200	220	235	260	320F	330S	F _s	F _s	F _s	3
200	205	A	200	200H	220	240	300s	F _s	F _s	F _s	F _s	4
200	195H	190	200	230	240	270	300	F	F	F	235	5
185	185	200	215	280	250	260	280	290	240	225	240	6
195	190	200	220	200	245	280	310	270	245	240	300	7
195	200	200	200	180	260	270	300	300	290	280	310	8
200	195	195	200	220	240	260	300	300	C	270	260	9
195	195	200	200	210	240	250	235	280	280	250	235	10
200	210	220A	210	220	260	G	260	260	265	270	270	11
200	200	200	220	210	C	C	C	C	300F	280U _h	280	12
200	200	B	220UB	220	240	260	320	F	F _s	F _s	F _s	13
190	190	200	200	200	240	260	320U _s	F _s	F _s	F _s	280	14
200	200	200	200	230	260	260	340	400F	340F	F _s	F _s	15
220	200	190	195	230	245	270	350	F	340	275	300	16
200	200	200	220	230	250	275	320	340	350	320h	280	17
200	200	200	200	200	255	300	340	F	100	280	F	18
200	200	205	220	230	270	270	340	340	F	330	290	19
200	200	205	220	220	245	295	345	345	245	F	F	20
180H	200	205	220	230	240	275	F _s	F _s	F _s	F _s	300F	21
C	C	200H	A	215	255	280	340	360	310	310	300	22
200	200	200	S	245	255	255	S	S	S	330s	310	23
C	C	220	215s	220s	240	270	320s	S	S	S	300	24
195	180H	A	215	210	235	260	340	S	S	300	F	25
205	200	200	200	230	240	260	340	F	315	325	315	26
200	200	195	215	230	235	260	300	315	315	325	295	27
205	200	200	220	220	240	260	290	320F	375	F	F	28
200	185H	200H	205	210	245	270	300	F	F	F	310	29
205	200	200	200	220	240	260	280	295	300	300	310	30

28	27	27	28	29	29	28	27	16	18	19	22	Count
200	200	200	210	220	240	260	320	310	300	280	290	Median
200	195	200	210	220	245	265	310	315	300	280	280	Mean

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

Characteristic $h'F_2$
Unit Km
Month April, 1962.

TABLE 64 (contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77 5° E.

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	230	235	240	240	240	240	245	220	215	200	205	200
2	225	240	255	260	245	250	240	220	205	200	200 _H	200
3	240	240	230	240	210	220	230	215	200	195	195	185
4	240 _s	240	240	220	210	210	220	210	200	195	190	200
5	270	270	250	230	240	320	250	C	215	200	210	200
6	250	255	230	240	C	C	C	C	C	C	C	C
7	310	275	F	280	270	240	250	235	215	210	200	195
8	280	240	240	235	260	300	240	215	210	200	200	190
9	300	F	F	I	210	230	240	220	215	200	200	200
10	270	240	230	200	200	260	230	220	210	200	200	200
11	255	240	260	220	220	260	240	225	210	200	200	200
12	305	320	300	230	220	280	C	220	200	200	200	200
13	260 _F	260	220	220	220	260	240	220	210	200	200	210
14	310	320	300	260	220	230	240	220	200	200	200	200
15	240	210	240	220	230	260	235	210	200	C	C	C
16	360	330	300	255	225	240	240	220	200	215	215	200
17	285	260	245	230	225	240	260	215	215	200	C	200
18	250	240	230	240	240	240	240	230	210	200	200	200
19	300	280	240	235	235	260	240	220	210	195	210	205
20	250	230	235	235	235	260	245	225	215	C	205	215
21	300	300	270	230	220	240 _F	240	220	200	200	200	190
22	F _s	F _s	F _s	F _s	F	240 _F	240	220	205	C	C	C
23	310	300	300	260	240 _s	245 _s	250	235	220	220	220	210
24	300	300	275	230	215 _s	255	230	200 _H	200	200	200	C
25	310	300	300	250	220	220	240	220	200 _H	195	200	220
26	315	F	F	F	250	240	240	230	215	200	200	205
27	300	300	270	230	240	270	240	235	210	205	200	195
28	300	300	280	260	225	260	260	225	215 _H	220	205	200
29	315	280	240	220	220	270	240	235 _H	190 _H	200 _H	195	200
30	260	235	245	260 _F	235	260	230	215	200	200	200	195
Count	29	27	26	27	28	29	28	28	29	26	26	26
Median	285	260	245	235	225	250	240	220	210	200	200	200
Mean	280	270	255	240	230	250	240	220	210	200	200	200

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'F
 Unit Km
 Month April, 1962

TABLE 64—(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
200H	195	190H	210H	240	260	300	320	295	240	220	220	1
190H	220	195	220	220	245	300	F	F	260	220	220	2
180	180	180	A	220	245	300	300L	290Ls	Fs	Fs	240s	3
200	A	A	200	220	215	260s	Fs	Fs	Fs	Fs	250ur	4
190H	190	195	215	230	260	295	S	F	F	240	230	5
180	190	220	220	280	250	280	300	280	230	225	250	6
195	170	200	200	240	270	300	290	250	230	260	300	7
200	205	220	220	240	260	280	330	300	300	300	330	8
200	195	190	220	230	250	280	315	C	C	265	265	9
195	195	200	205	220	240	240	250	280	275	235	260	10
220	200	210	205	230	C	250	260	275	260	265	280	11
200	200	200	210	C	C	C	C	360ur	310	260r	280r	12
200	195	B	200	220	240	280	360	340ur	Fs	Fs	320ur	13
190	200	200	220us	220	240	300	FS	Fs	Fs	300urLs	280	14
200	200	200	220	240	270	280	360	F	360L	360F	360	15
200	200	195	225	245	260	300	F	F	340	300	280	16
200	195	210	230	240	260	280	340	350	340	285	265	17
205	A	200	200	240	265	300	F	F	F	280	315	18
200	215	220	225	250	270	300	370	375	340	300	280	19
200	200	215	215	230	260	300	400	F	F	F	330s	20
200	210	220	220	235	255	300	Fs	Fs	Fs	300	300r	21
C	210	200	230	240	265	310	360	320	300	305	315	22
200	200	200	220	240	250	300	S	S	S	330	320	23
C	240	230	C	220s	250	300	S	S	S	300	300	24
200	190H	200H	215	220	250	300	300	S	300F	F	300	25
200	200	A	210	240	260	300	F	330r	315r	325	305	26
195	200	200	220	230	260	280	310	305	320	300	295	27
200	205	220	220	230	245	270	310	320r	F	F	F	28
200H	200H	200H	215H	235	250	280	300F	F	F	325	295	29
200	200	200	205	A	255	265	290	295	300	300	320	30
28	28	27	28	28	28	29	19	16	17	24	29	Count
200	200	200	220	230	255	300	310	300	300	300	295	Median
200	200	205	215	235	255	285	320	310	295	285	285	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'E
Unit Km
Month April, 1962

TABLE 65
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'E
 Unit Km
 Month April, 1962

TABLE 65 (contd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Count	9	7	3
Median	120	120	
Mean	115	115	

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'E
Unit Km
Month April, 1962

TABLE 65 (contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
 Unit Km
 Month April, 1962

TABLE 66
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N.
 Longitude 77 5° E.

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
Unit Km
Month April, 1962

TABLE 66
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77 5° E.

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	110							1
100	100	100	120	G								2
100	100	100	100	100	100					110	120F	3
100	100	100	100	G								4
100	100	100	100	100								5
115	110	115	120	G								6
115	120	110	125	120								7
110	120	120	110	110	110							8
120	120	120	120	120								9
100	100	100	100	G		115						10
100	100	100	100	100	100							11
100	100	100	100	100								12
100	100	B	B	G								13
100	100	100	100	100								14
100	100	100	100	100	100	100						15
100	110	110	120	120		145					120	16
110	110	110	120	105								17
110	110	110	S	G								18
115	120	120	115	110	160					120		19
120	120	120	120	G								20
100	100	G	100	100								21
C	C	100	100	100								22
100	100	G	G	G	115							23
C	C	100	100									24
100	100	100	100	100								25
100	100	100	G	G					115			26
100	100	100	100	100					125			27
100	100	100	100	100								28
100	100	G	G	G								29
100	100	100	100	100	100	100	100					30
28	28	26	25	19	8	4	1		1	3	2	Count
100	100	100	100	100	105							Median
105	105	105	105	105	110							Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
 Unit Km
 Month April, 1962

TABLE 66 (contd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic , h'Es
 Unit Km
 Month April, 1962.

TABLE 66 (contd)
 Ionospheric Data
 75 E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic (M3000)F2
 Unit —
 Month April, 1962

TABLE 67
 Ionospheric Data
 75° 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 35	3 35	3 25	3 35	3 45	3 60 _{US}	3 30	3 15	2 65	2 45	2 60	2 60
2	3 35	3 40	3 35	3 20	3 40	3 45	3 40	3 40	3 10	2 10 _{IT}	2 50	2 60
3	3 20	3 30 _s	3 25	2 80 _s	2 80	2 95 _{US}	3 00 _s	3 30	2 95	2 30	2 70	2 55
4	3 30	FS	FS	FS	FS	3 45 _{FS}	3 55 _{FS}	3 40	2 90	2 45	2 65	2 60
5	F	3 00 _s	3 25 _{US}	3 35 _{IS}	3 30 _{FS}	E	3 25	C	3 15	2 75	2 35 _{IT}	2 50
6	F	3 25	F	3 65	3 70	C	C	C	C	C	C	C
7	3 00	2 95	3 30	F	3 15	3 40 _F	3 30	3 40	3 10	2 65	2 50	2 60
8	3 10	3 30	3 45	3 50	3 55	E	3 45	3 40	3 05	2 50 _{IT}	2 50	2 70
9	2 80	2 85	F	F	F	3 60	3 40	3 30	3 00	2 65	2 50	2 60
10	3 10	3 35	3 35	3 50	3 55	3 50	3 40	3 40	3 00	2 55	2 60	2 65
11	3 10	3 40	3 30	3 35 _{FS}	3 55	3 60	3 30	3 40	3 00	2 40 _H	2 70	2 65
12	2 80 _{US}	2 70 _{US}	3 05 _{FS}	3 40 _{US}	3 60	R	3 45 _{US}	3 20	2 85	2 55	2 55	2 60
13	F	F	3 35 _{US}	3 50 _{FS}	3 55 _{US}	3 75 _R	3 50	3 40	3 10	2 60 _{IT}	2 50	2 55
14	F	F	FS	FS	FS	3 50 _{FS}	3 25 _{FS}	3 20	2 70	2 50	2 50	2 65
15	FS	FS	3 35	FS	FS	3 50	3 40 _{US}	3 35	2 90	C	C	C
16	F	2 90	F	F	3 20 _r	3 30	3 30	3 10	2 70	2 40	2 50	2 40
17	F	F	3 15	3 30	3 20 _r	3 40	3 25	2 90	2 50	2 60	2 60	C
18	3 25	3 40	3 40	3 50 _F	F	F	3 30	3 05	2 80	2 30	2 55	2 50
19	F	2 90	3 10	F	F	3 35	3 00	2 80	2 65	2 50	2 60	2 50
20	3 00	3 20	3 40	3 35	3 40	3 45	3 25	3 00	2 60	2 60	2 60	2 50
21	FS	FS	FS	FS	FS	FS	FS	3 25	2 70	2 35	2 40	2 45
22	FS	FS	FS	FS	FS	FS	3 40 _F	3 25 _s	2 80	C	C	C
23	2 80	2 90 _s	2 80	3 05	3 20 _s	3 45 _s	3 10	3 00	2 70	2 40 _H	2 15	2 50
24	2 75 _s	FS	FS	3 20 _{US}	3 60 _{US}	3 40 _s	3 30	3 10	2 60	2 45	2 50	C
25	2 40	2 95	3 00 _s	2 95	3 30	3 45 _s	3 40	3 10	2 45	2 50	2 55	2 55
26	2 75 _F	F	F	F	2 95 _s	3 30	3 30	2 85	2 50	2 60	2 50	2 50
27	2 85	2 95 _{UF}	2 95 _{US}	3 25	3 60 _{US}	3 10 _F	3 50 _{FS}	3 40	2 90	2 10	2 55	2 50
28	3 05 _s	2 90	2 95	3 10	3 40 _{US}	3 75	3 30	3 20	2 85	2 40 _H	2 60	2 55
29	F	F	3 30 _F	3 45	3 50 _{UF}	F	3 10	3 00	2 65	2 55	2 60	2 60
30	3 00 _r	3 45	3 40	3 40 _s	3 55 _F	3 60	3 30	3 05	2 60	2 60	2 65	2 70
Count	19	20	21	20	22	22	28	28	29	27	27	25
Median	3 00	3 10	3 30	3 30	3 40	3 45	3 30	3 20	2 80	2 50	2 55	2 55
Mean	3 00	3 10	3 20	3 35	3 40	3 45	3 30	3 20	2 80	2 50	2 55	2 55

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

Characteristic (M3000)F2
 Unit —
 Month April, 1962

TABLE 67 (Contd.)
 Ionospheric Data
 75' Mean Time

Latitude 10 2°N
 Longitude 77 5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2 70	2 60	2 50	2 70	2 80	2 75	2 60	2 45 _{us}	2 60	3 05	3 30	3 25	1
2 60	2 60	2 70	2 75	2 85	2 90	2 85	2 65	F	F	3 15 _r	3 30 _b	2
2 80	2 80	2 75	2 75	2 80	2 80	2 80	2 50 _{us}	2 50	2 55 _{rs}	2 80 _{us}	FS	3
2 85	2 80	2 80	2 80	3 05 _s	3 05	3 00	2 90 _s	FS	FS	FS	FS	4
2 55	2 55	2 55	2 55	2 60	2 65	2 70	2 65	F	F	F	FS	5
2 65	2 75	2 60	2 70	2 75	2 90	3 00	2 90	2 90	3 35	3 45	3 40	6
2 65	2 60	2 70	2 80	2 95	2 90	2 75	2 65	2 90	3 05	3 20	2 80	7
2 70	2 55	2 60	2 65	2 75	2 70	2 65	2 60	2 70	2 90	2 90	2 75	8
2 70	2 70	2 80	2 75	2 70	2 60	2 60	2 60	2 60	C	2 95	3 00	9
2 80	3 15	3 30	3 40	3 50	3 60	3 50	3 40	3 30	2 80	2 65	2 60	10
2 70	2 70	2 75	2 80	2 90	2 70	C	2 85	2 90	3 00	3 05	3 00	11
2 65	2 60	2 50	2 75	2 80	C	C	C	C	F	F	F	12
2 70	2 70	2 85	2 90	2 90	2 95 _{us}	2 85 _{us}	2 70 _{us}	2 60 _r	F	FS	FS	13
2 60	2 60	2 60	2 60	2 65 _{us}	2 70 _{us}	2 55 _s	2 30	FS	FS	FS	FS	14
2 55	2 60	2 70	2 70	2 70 _{us}	2 75 _{us}	2 80 _{us}	2 55	F	F	FS	FS	15
2 45	2 45	2 50	2 50	2 60	2 60	2 60	2 40	F	F	F	F	16
2 50	2 50	2 50	2 55	2 60	2 70	2 65	2 60	2 60	F	F	2 90	17
2 60	2 75	2 80	2 90	3 00	2 85	2 70	2 40	F	F	F	F	18
2 45	2 60	2 70	2 70	2 65	2 55	2 50	2 40	2 50 _r	F	3 00 _i	F	19
2 50	2 55	2 60	2 70	2 75	2 85	2 80	2 50	F	F	2 65 _r	F	20
2 50	2 65	2 70	2 85	2 90	3 00	2 85 _{us}	2 60 _{us}	FS	F-S	FS	F-S	21
C	C	2 50	2 65	2 75	2 75	2 80	2 50	2 55 _s	2 40	2 70	2 80 _{us}	22
2 50	2 50	2 60	2 60	2 70	2 80	2 60	2 50 _s	S	S	2 60 _s	2 65	23
C	C	2 65	2 80	2 90 _s	2 80 _s	2 80	2 55	S	S	S	2 85	24
2 50	2 50	2 60	2 65	2 70	2 70	2 70	2 65 _{us}	S	2 70	2 85	FS	25
2 60	2 50	2 65	2 75	2 90	2 90	2 85	2 65	F	2 80 _{us}	2 80	2 80	26
2 50	2 70	2 70	2 70	2 80	2 90	2 90	2 80	2 85	2 85	2 80	2 90	27
2 55	2 60	2 60	2 60	2 70	2 80	2 90	2 85	2 70 _r	2 60 _i	F	F	28
2 50	2 70	2 80	2 90	3 05	2 95	2 75 _{us}	2 65	F	F	F	2 85 _{us}	29
2 65	2 65	2 70	2 90	2 95	3 00	3 05	3 00	3 00	3 00	3 05	2 85	30
28	28	30	30	30	29	28	29	15	13	16	16	Count
2 60	2 60	2 70	2 70	2 80	2 80	2 80	2 60	2 70	2 85	2 90	2 85	Median
2 60	2 65	2 70	2 75	2 80	2 85	2 75	2 65	2 75	2 90	2 95	2 90	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic (M3000)F2
 Unit —
 Month May, 1962

TABLE 67 (contd)
 Ionospheric Data
 75° 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 25	F	3 25	3 35	3 45	3 50	3 25	2 90	2 40	2 55	2 55	2 60
2	3 30	3 30	3 30	3 25	3 45	3 10	3 35	3 25	2 80	2 40	2 50	2 60
3	3 35	3 30 ^{US}	3 30 ^S	2 75	3 05 ^S	3 05	3 40	3 10	2 64 ^{US}	2 60	2 50	2 60
4	3 50	FS	FS	3 55 ^{FS}	FS	3 65	3 40	3 15	2 45	2 70	2 55	2 70
5	2 95 ^{US}	3 10	3 25 ^{US}	3 35 ^{US}	3 70 ^{FS}	3 00	3 35	C	2 95	2 45 ^H	2 45	2 55
6	3 35	3 40	F	3 30	C	C	C	C	C	C	C	C
7	2 80	3 00	F	3 10	F	3 50	3 45	3 30	2 90	2 50 ^H	2 50	2 70
8	3 15	3 45	3 40	3 65	3 55	3 05	3 50	3 20	2 80	2 40 ^H	2 60	2 70
9	2 85	F	F	F	3 50 ^F	3 40	3 40	3 10	2 70	2 60	2 55	2 60
10	3 15	3 30	3 40	3 50	3 60	3 00	3 40	3 30	2 80	2 65	2 60	2 80
11	3 30	3 40	3 40	3 35 ^S	3 50 ^S	3 25	3 35	3 30	2 75	2 65	2 70	2 65
12	2 90 ^{US}	2 90 ^{US}	3 05	3 60 ^{US}	3 60	2 95	C	3 00	2 70	2 50	2 65	2 70
13	F	F	F	3 50 ^S	3 50	3 20	3 60	3 30	2 90	2 30 ^H	2 60	2 60
14	F	F	F	FS	FS	3 60 ^{US}	3 35	2 95	2 60	2 50	2 50	2 60
15	FS	3 50 ^{US}	3 40	FS	3 60 ^{US}	3 15 ^{US}	3 40	3 10	2 55	C	C	C
16	F	F	3 20 ^F	F	3 40	3 10	3 30	3 00	2 50	2 55	2 50	2 50
17	F	3 10	3 25	3 35	F	3 20	3 20	2 65	2 55	2 60	C	2 55
18	3 30	F	3 40	3 40	3 00 ^F	3 25	3 20	3 05	2 60	2 30	2 60	2 50
19	2 80	3 05	F	3 20	3 20	3 00	2 80	2 55	2 95	2 60	2 55	2 50
20	3 20	3 30	3 30	3 30	3 40	3 15	3 30	2 80	2 45	2 60	2 50	2 50
21	FS	2 90 ^{US}	FS	FS	FS	FS	3 30	2 90	2 40	2 35	2 50	2 50
22	FS	FS	FS	FS	FS	FS	3 25	3 10	2 50	C	C	C
23	2 80	2 85	2 80	3 10	3 30 ^S	3 25 ^S	3 10	2 90	2 80	2 40	2 45	2 50
24	2 80	FS	3 00 ^{US}	3 40	3 50 ^S	3 35	3 30	2 85	2 50	2 50	2 45	C
25	2 85	3 00	2 95 ^S	3 10	3 30	3 45	3 40	2 75	2 50	2 50	2 50	2 60
26	2 80 ^{US}	F	F	F	3 05	3 25	3 15	2 70	2 50	2 50	2 50	2 55
27	2 90	2 95	3 15	3 50	3 60	3 20	3 45	3 10	2 70	2 40	2 50	2 50
28	2 85 ^{FS}	2 95	3 10	3 35	3 60 ^{US}	3 20	3 30	3 10	2 60	2 45 ^H	2 60	2 55
29	F	F	3 45 ^{UF}	3 60 ^H	3 40	3 10	3 20	2 70	2 55	2 60	2 50	2 50
30	3 30	3 40	3 45	3 40 ^F	3 50	3 40	3 20	2 80	2 50	2 65	2 60	2 60

Count	22	19	20	23	23	27	28	28	27	27	25	26
Median	3 05	3 10	3 30	3 35	3 50	3 20	3 30	3 00	2 60	2 50	2 50	2 60
Mean	3 05	3 15	3 25	3 35	3 40	3 25	3 30	3 00	2 65	2 50	2 55	2 60

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

Characteristic (M3000)F2
 Unit —
 Month April, 1962.

TABLE 67 (contd)
 Ionospheric Data
 75 °Mean Time

Latitude 10 2°N
 Longitude 77 5°E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo F2
Unit —Mc
Month May, 1962

TABLE 68
Ionospheric Data
75° Mean Time

Latitude 10 2°N
Longitude 77 5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	6.7	5.1	4.2	3.9	3.8	3.5	5.2	7.4	8.2	7.4	7.2	7.3
2	8.4	5.9	S	S	3.1 ^{US}	S	5.8	7.9	8.7	8.2	8.2	8.6
3	5.7	4.9 ^{UF}	4.4	4.5 ^{US}	4.3	E	5.4	7.9	9.5	9.2	8.9	8.8
4	F	F	F	F	S	B	5.3	7.3	7.4	7.0	6.8	C
5	S	4.1	3.2	3.2	2.6	E	5.0 ^{US}	7.1	7.0	6.4	C	6.2
6	3.8	2.6	2.5	S	S	S	5.2	7.7	8.0	6.6	6.4	6.6
7	5.0 ^F	4.6	4.4	4.4	3.3	E	5.4	7.8	8.8	8.8	8.4	8.6
8	C	C	C	C	C	C	C	C	8.4	7.8	7.5	7.6
9	F	F	3.4	F	2.9	E	5.4	7.6	8.8	8.7 ^H	7.4	7.5
10	4.4	3.5	S	2.8	B	E	5.5	7.4	8.5	8.8	7.8	7.6
11	4.5 ^S	4.0	3.7	4.0	4.0	2.2	5.4	7.4	8.7	8.4	7.6	7.4
12	4.4	3.5	3.2	3.0	2.8	R	5.6	8.2	8.6	7.9	7.8	8.1
13	F	F	F	F	5.5	3.5	6.2	8.0	9.2	8.7	7.6	8.0
14	7.9	7.8	6.8	4.5 ^S	2.7	2.7	6.4	8.4	9.2	9.6	9.4 ^H	9.4
15	5.2	4.2	3.3	3.2	2.7	B	6.0	8.0	9.4	8.3	8.0	8.2
16	C	C	C	C	C	C	C	C	C	C	6.8	7.2
17	5.0	3.7	2.9 ^F	F	F	F	5.8	8.4	9.2	8.2	7.4	7.7
18	4.0	3.2	2.7	F	2.9	1.8	5.5	8.2	8.8	7.6	7.0	7.0
19	4.9	3.4	3.0	2.7	2.6	E	5.9	8.4	9.0	8.5 ^H	7.8	7.4
20	4.1	3.8	3.5	3.4	3.2 ^F	F	6.4 ^F	8.2	9.2	8.8 ^H	7.8	7.6
21	5.2	4.1	3.2	3.2	2.9	1.9	6.2	8.7	9.4	9.2 ^H	7.8	C
22	5.2	4.2	3.4 ^F	F	F	F	6.2 ^F	7.8	9.2	9.4	9.0	9.0
23	3.8	F	E	E	E	C	5.6	7.7	9.0	9.3	9.1	8.6 ^H
24	5.0 ^{UF}	F	3.0	E	2.7	E	5.8	7.6	9.2	9.4	9.0	8.7
25	4.4	2.7	2.2	2.2	2.3	E	5.8	7.8	8.6	8.4	7.4	7.2
26	5.4	3.7 ^{UF}	F	F	F	2.8 ^{UF}	5.6	7.6	9.0	8.8	8.2	7.7
27	4.0	3.2	F	2.5 ^F	F	2.8	5.6	7.5	8.3	8.3	7.6	7.4
28	F	F	F	F	3.5 ^F	2.1	5.8	8.1	9.2	9.4	7.8	7.7
29	4.6	4.3	4.0	4.1	3.3	2.7	5.6	7.3	8.3	8.8	8.7	9.3
30	6.5	5.2	4.3	4.0	3.4 ^{UR}	2.0	5.7	8.0	8.9	9.2	9.3	8.7
31	F	2.8 ^{UF}	F	2.4 ^F	1.9	E	5.3	7.1	7.8	8.1	7.8	7.5
Count	23	23	21	19	23	21	29	29	30	30	30	29
Median	5.0	4.0	3.3	3.2	2.9	1.9	5.6	7.8	8.8	8.6	7.8	7.7
Mean	5.1	4.1	3.6	3.4	3.2	2.6	5.7	7.8	8.7	8.4	7.9	7.9

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF2
Unit Mc
Month May, 1962

TABLE 68
Ionospheric Data
75° Mean Time

Latitude 10 2°N.
Longitude 77 5°E.

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo F2
Unit - Mc
Month May, 1962

TABLE 68 (contd)
Ionospheric Data
75° Mean Time

Latitude 10 2°N.
Longitude 77 5°E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	5.9	4.4	4.0	3.9	3.8	3.8	6.6	7.6	7.9	7.3	7.4	7.6
2	7.6	4.9	3.4 _{US}	3.2 _{US}	3.0	3.3	6.9	8.3	8.8	8.0	8.4	8.9
3	5.4 _{US}	4.6	4.5	S	3.8	3.8 _{US}	6.8	8.7	9.2	9.4	8.8	9.1
4	F	F	F	3.3	B	3.2	6.6	7.7	7.1	6.9	7.0	7.2
5	5.0 _{US}	3.5	3.2	3.1	E	3.3	6.2	7.5	6.6	6.1	6.1	6.5
6	3.2	2.6	S	S	3.2	3.6	6.8	8.4	7.8 _H	6.4	6.5	7.0
7	4.6	4.4	4.4	4.0	2.6	3.7	6.8	8.5	8.8	8.6	8.4	8.6
8	C	C	C	C	C	C	C	C	8.2	8.0	7.6	7.9
9	F	3.6	F	3.2	E	3.5	7.0	8.6	8.8	7.6	7.5	7.6
10	3.9	3.2	S	E	E	3.5	6.8	7.8	8.8	8.4	7.7	7.5
11	4.5	3.7	3.9	4.1	3.4	3.7	6.7	8.4	8.7	8.0	7.5	7.4
12	4.0	3.4	3.1	3.0	E	3.8	7.1	8.5	8.5	7.6	8.0	8.4
13	F	F	F	7.2 _{UF}	4.4	4.4	7.1	8.7	8.9	7.8	7.8	8.2
14	7.8	7.4	6.3	3.1	2.6	4.4	7.3	8.6	9.5	9.4	9.2	9.4
15	4.6	3.8	3.4	3.1	2.4	4.2	7.0	8.8	9.4	7.8	8.0	8.3
16	C	C	C	C	C	C	C	C	C	C	C	7.7
17	4.2	3.2	F	F	F	4.0	7.1	9.2	8.8	7.5	7.5	8.2
18	3.6	2.9	F	F	2.6	4.0	7.0	8.8	8.5	7.4	7.2	7.0
19	4.0	3.1	2.8	2.6	2.3	4.0	7.2	9.0	9.2	8.0	7.6	7.6
20	4.0	3.6	3.2	3.2	3.4 _F	5.4 _F	7.4	8.8	9.1 _H	7.8	7.7	7.5
21	4.6	3.6	3.2	3.1	2.3	4.2	7.6	9.2	9.4	8.8 _H	C	C
22	4.7	3.8	F	F	F	4.6 _F	6.8	8.6	9.4	9.6	9.0	8.8
23	3.4	S	E	E	E	3.7	6.6	8.4	9.4	9.4	9.0	8.4
24	F	F	F	2.7	E	4.0	7.0	8.8	9.6	9.0	8.6	8.6
25	3.6	2.4	E	2.3	1.9	4.1	7.0	8.2	8.6	7.3	7.3	7.2
26	4.8	3.1 _{UF}	F	F	F	4.2	6.7	8.5	9.0	8.7	7.8	7.5
27	A	2.9	F	F	2.8	4.1	6.6	8.1	8.4	7.8	7.4	7.5
28	F	F	F	F	2.8	4.2	7.1	8.5	9.3	9.2 _H	7.6	7.9
29	4.3	4.2	3.9	3.9	3.0	4.3	6.8	7.7	8.6	8.7	9.0	9.3
30	6.2	4.5	4.0	4.0	B	4.0	7.1	8.4	9.5	9.2	8.8	8.7
31	3.7 _F	2.3 _F	2.3 _{RS}	2.1 _{UF}	E	3.7	6.5	7.5	8.0	8.0	7.8	7.5
Count	23	24	17	21	24	29	29	30	30	30	29	30
Median	4.5	3.6	3.4	3.1	2.6	4.0	6.9	8.5	8.8	8.0	7.7	7.8
Mean	4.7	3.7	3.7	3.4	3.0	4.0	6.9	8.4	8.7	8.1	7.9	8.0

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF2
 Unit Mc
 Month May, 1962

TABLE 68 (contd)
 Ionospheric Data
 75' Mean Time

Latitude 10 2°N
 Longitude . 77 5°E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
8.9	9.9	10.1	10.4	11.3	11.7	11.1	10.3 ^{us}	9.2	8.5	8.2	8.4	1
9.6	11.2	12.3	11.5	11.5	11.7	11.9	10.1	8.6	7.1 ^{us}	6.5	5.9	2
9.7	11.0	11.2	11.7	11.7	11.2 ^{us}	11.5 ^{us}	10.2	8.8	F	5.8	4.9	3
7.6	8.6	9.5	10.4	10.8	11.2	11.5	10.0	8.4	7.5 ^{us}	6.8	5.8	4
7.3	8.2	9.0	9.1	10.1	11.3	8.3	6.9	5.9	4.9	4.5	4.7	5
7.8	8.2	8.6	9.4	10.4	10.2	9.8	9.0	7.5	5.8	C	5.0 ^F	6
8.7	9.0	9.6	10.8	11.0	C	C	C	C	C	C	C	7
8.4	8.6	9.0	9.0	9.8	10.6	10.8	10.0	8.1	7.1	F	F	8
7.7	8.4	9.0	9.6	10.0	10.0	9.8	9.6	8.0	6.2	5.4	4.8	9
7.6	8.0	8.8	9.8	10.6	10.6	10.4	9.2	7.9	6.6	5.4	5.2	10
7.7	8.1	8.1	8.4	9.6	10.4	9.5	C	8.0	C	C	C	11
8.8	9.4	10.0	10.6	11.0	11.5	11.4	10.7	9.4 ^r	7.9	7.2 ^F	F	12
8.7	9.0	9.4	9.6	9.8 ^s	9.6	9.6	9.5	9.7 ^s	9.0	8.0	8.4	13
9.4	9.8	10.0	C	C	C	C	12.2	11.0	9.5	7.8	6.8	14
8.4	8.8	9.7	10.6	11.0	11.3	10.8	9.7	8.5	8.0	6.7	C	15
8.4	9.0	9.0	9.4	10.0	10.4	11.3	11.8	10.2	7.0	5.6	5.4	16
8.6	9.4	10.6	11.0	11.2	11.6	11.4	10.4	7.0	5.7	5.4	4.6	17
7.4	7.8	8.7	9.2	9.8	10.6	10.2	8.6	7.0	5.8	6.0	5.8	18
7.5	7.8	8.6	9.5	10.2	11.6	10.4	8.6	6.0	4.9	4.5	4.3	19
7.6	7.7	8.0	8.4	8.9	9.6	10.8	10.7	7.5	5.8	5.8	6.3	20
C	C	8.4	9.0	10.0	11.4	10.9	8.4	8.0	7.0	5.5	5.6	21
8.6	8.8	8.8	9.0	9.6	10.8	10.4	8.4	5.9	4.9	4.6	4.4	22
8.0	7.8	8.0	8.0	8.6	9.4	10.4	9.6	6.4	4.9	5.0	4.8	23
C	7.8	8.0	8.3	9.2	9.9	9.8	8.5	7.3	6.6	6.0	5.1	24
7.4	8.4	9.4	9.4	9.6	9.8	9.6	8.6	8.4	7.2	5.4	5.5	25
7.3	7.4	7.7	C	8.4	9.3	10.0	8.5	6.1	5.6	4.4	4.0	26
8.1	8.7	9.5	10.7	10.7	10.3 ^{us}	9.8	8.6	7.8	6.4	F	F	27
8.0	8.6	9.3	9.3	10.3	10.6	11.2	9.7	8.1	7.2	6.2	5.4	28
9.6	9.5	9.5	9.7	9.5	9.7	10.0	9.4	8.7 ^F	7.9	6.6	6.4	29
9.0	9.4	10.1	10.7	10.4	10.5	11.0	10.1	8.7	6.6	F	F	30
8.2	9.1	9.3	10.0	10.3	10.3	9.2	9.2	8.6	7.6	6.9	5.6	31
29	30	31	29	30	29	30	29	30	28	25	24	Count
8.2	8.6	9.3	9.6	10.2	10.6	10.4	9.6	8.0	6.8	5.8	5.4	Median
8.3	8.8	9.3	9.7	10.2	10.6	10.5	9.5	8.0	6.7	6.0	5.5	Mean

Sweep 1.0 Mc to 25.0 Mc to 27 seconds

Characteristic fo F1
 Unit Mc
 Month May, 1962

TABLE 69
 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	4.6	C
5								L	L	L	C	L
6							L	L	4.6	4.6	4.6	4.6
7							L	L	L	4.7	4.7	4.7
8							L	L	L	4.7	4.7	4.7
9							L	L	4.6	4.7	4.8	4.9
10							L	L	4.3	4.7	4.8	4.8
11							L	L	L	L	5.3	5.2
12							L	L	L	L	L	L
13							L	L	L	L	5.2L	L
14							L	L	L	L	L	L
15							L	L	L	L	L	L
16							C	C	C	C	4.8	4.9
17							L	L	L	4.7	4.9	5.1
18							L	L	L	4.9	5.0	5.1
19							L	L	L	5.1	4.8	4.9
20							L	L	L	4.8	4.9	5.2
21							L	L	4.7	4.9	5.1	C
22							L	L	L	5.1	4.9	5.1
23							L	L	4.5	4.7	5.0	4.9
24							L	L	4.7	4.8	4.9	5.0
25							L	L	L	L	5.0	4.9
26								L	L	L	L	L
27								L	L	L	L	LH
28								L	L	L	L	L
29								L	L	L	L	L
30							L	L	L	LH	L	LH
31							L	L	LH	L	L	L
Count									7	13	18	15
Median									4.6	4.7	4.9	4.9
Mean									4.6	4.8	4.9	4.9

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo F1
Unit Mc
Month May, 1962

TABLE 69
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	L	L	L	L	L							1
L	L	L	L	L	L							2
B	L	L	L	L	L							3
L	L	A	L	L	L							4
4.6	4.6	L	L	L	L							5
4.7	4.6	4.6	A	A								6
4.9	C	4.6	4.4	A	L							7
4.7	4.7	4.7	A	L								8
4.8	4.8	4.7	4.7	L								9
4.9	4.7	4.7	4.7	4.6								10
5.2	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
5.1	4.9	4.7	L	L	C							16
4.9	4.9	4.8	4.7	L	L	L						17
5.0	4.9	4.8	4.8	4.4	L							18
5.0	4.9	4.8	4.9	L	L							19
5.0	4.8	L	4.9	L	L	L						20
C	C	C	4.9	A								21
5.0	5.1	4.9	4.5	4.2								22
4.8	4.8	5.0	4.9	4.5								23
4.9	C	4.7	4.8	A	L							24
4.8	4.9	4.7	4.5	4.5	L	L						25
L	L	L	L	L	A							26
A	A	L	L	L	L	L						27
L	L	LH	L	L	L							28
L	LH	L	L	LH	L	A						29
L	4.8	A	L	A	L							30
4.8	LH	LH	LH	L								31
17	14	13	12	5								Count
4.9	4.8	4.7	4.8	4.5								Median
4.9	4.8	4.7	4.7	4.4								Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fo F1
Unit Mc
Month May, 1962

TABLE 69 (contd)
Ionospheric Data
75 0°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo F1
Unit Mc
Month May, 1962

TABLE 69 (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
4.6	L	L	L	L								4
4.6	L	L	L	L								5
4.7	4.6	4.6	A									6
4.8	4.7	4.7	A	L								7
4.9	4.7	A	A	L								8
4.8	4.8	4.5	L	L								9
4.8	4.7	4.6	4.3	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	C	C	C							14
L	L	L	L	L								15
4.9	4.7	4.7	L	L								16
4.8	4.9	4.9	L	L	L							17
5.0	4.8	4.8	L	L								18
5.0	5.2	5.1	L	3.9	L							19
5.0	5.0	4.8	4.5	L	L							20
C	C	4.7	L	L								21
5.0	4.9	4.9	L	A								22
4.9	4.9	4.6	L	L	L							23
C	4.6	4.7	L	L	L							24
4.8	4.9	4.7	4.6	L	L							25
L	L	L	C	L	A							26
A	A	L	L	L	L							27
L	L	LH	L	L	L							28
L	L	L	L	L	L							29
4.9	4.8	A	L	A		A						30
L	LH	LII	4.4	L								31
16	15	14	3	1								Count
4.8	4.8	4.7										Median
4.8	4.8	4.7										Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo E
Unit Mc
Month May, 1962

TABLE 70
Ionospheric Data
75 0°E Mean Time

Latitude 10 2°N
Longitude . 77 5°E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2								A	A	A	A	A
3								A	A	A	A	B
4								A	A	A	A	C
5								A	A	A	C	A
6								2.6	A	A	A	A
7							1.7	3.0	A	A	A	A
8								C	A	A	A	A
9								2.7	A	A	A	A
10								2.5	A	A	A	A
11							2.5	2.8	A	A	A	A
12							2.2	A	A	A	A	A
13								2.9	A	A	A	A
14							2.3	2.6	A	A	A	A
15							2.7	2.8	A	A	A	A
16								C	C	C	A	A
17								A	A	A	A	A
18							1.5	A	A	A	A	A
19								2.7	A	A	A	A
20							1.8	2.3	A	A	A	A
21								A	A	A	A	C
22								2.7	A	A	A	A
23							2.1	2.7	3.1	4.2	A	A
24								3.3	A	A	A	A
25							2.1	A	A	A	A	A
26								A	A	A	A	A
27								A	A	A	A	A
28								A	A	A	A	A
29								A	A	A	A	A
30								A	A	A	A	A
31								A	A	A	A	A
Count							9	13	1	1		
Median							2.1	2.7				
Mean							2.1	2.7				

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic fo E
 Unit Mc
 Month May, 1962

TABLE 70
 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	R	3 1	A								1
A	3 6	3 3	3 2	A								2
B	3 6	A	A	B								3
A	A	A	A	R	A							4
A	A	A	R	R								5
A	A	A	A	A								6
A	C	A	A	A								7
A	A	A	A	A								8
A	A	A	A	A								9
A	A	A	A	A								10
A	A	A	A	A	A							11
A	A	A	A	A	A							12
A	A	A	A	A	A							13
A	A	A	A	C	C							14
A	A	A	A	3 2								15
A	A	A	A	A	A							16
A	A	A	3 1	2 9	2 3							17
A	A	A	A	A	A							18
A	A	A	A	A	A							19
A	A	A	A	3 0	R							20
C	C	C	A	A	3 4							21
A	A	A	A	A								22
A	A	A	A	A								23
A	C	A	A	A								24
A	A	A	A	A								25
A	A	A	A	A	A							26
A	A	3 4UR	A	R	2 5							27
A	A	A	A	A	2 4R							28
A	A	A	A	A	A							29
A	A	A	A	A	A							30
A	R	R	A	R	R							31
	2	2	3	3	4							Count
												Median
												Mean

Sweep 1.0 Mc to 25 0 Mc in 27 seconds

Characteristic fo E
Unit Mc
Month May, 1962

TABLE 70 (contd)
Ionospheric Data
75 0°E Mean Time

Latitude 10 2°N
Longitude 77 5°E.

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo E
Unit Mc
Month May 1962

TABLE 70 (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	3 5	A									1
B	3 5	R	3 1	B								2
B	3 5	A	R	B								3
A	A	A	R	R								4
A	A	3 4	R	R								5
A	A	A	A	A								6
A	A	A	A	A								7
A	A	A	A	A								8
A	A	A	A	A								9
A	A	A	A	A								10
A	A	A	A	A								11
A	A	A	A	A								12
A	A	A	A	A								13
A	A	A	A	A								14
A	A	A	3 4	C								15
A	A	A	A	2 6	A							16
A	A	3 5	3 0	2 7	1.8							17
A	A	A	A	A								18
A	A	A	A	2 7								19
A	A	A	A	3.2	2 3							20
C	C	A	3 6	A								21
A	A	A	A	A								22
A	A	A	A	A								23
A	A	A	A	A								24
A	A	A	A	A								25
A	A	A	C	A	A							26
A	A	A	2 9 _H	A	R							27
A	A	A	A	A	A							28
A	A	A	A	A	A							29
A	A	A	A	A	A							30
R	3 4	3 3	3 0	R	R							31
	3	4	6	4	2							Count
			3 0									Median
			3 2									Mean

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

Characteristic fo Es
 Unit Mc
 Month May 1962

TABLE 71
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								7.4	9.2	11.4	12.2	12.0
2								9.8	10.2	11.2	12.4	11.8
3	3.6							10.0	11.0	11.8	12.0	11.6
4								9.0	11.0	10.4	11.6	C
5								10.0	11.0	11.0	C	11.6
6								6.9	10.8	10.8	12.6	13.6
7							2.2	9.8	10.0	11.4	13.0	14.0
8								C	11.6	13.0	15.0	11.8
9								G	10.4	11.4	12.4	12.0
10								3.0	11.0	11.4	12.6	12.8
11							G	G	9.0	10.8	12.3	12.2
12							G	8.7	10.6	11.0	11.2	12.2
13	6.8							G	10.0	11.4	11.4	12.0
14								G	10.0	10.0	11.4	12.0
15							G	G	8.8	9.6	9.0	9.4
16							C	C	C	C	9.2	11.8
17								8.8	11.4	12.4	12.4	13.4
18							2.6	8.0	9.8	12.4	12.0	12.4
19	3.2	3.8	4.6	5.0			2.1	8.2	14.0	12.4	12.8	12.4
20	4.6	4.7					2.2	3.2	11.4	12.6	12.4	13.6
21		3.4						8.8	12.6	11.6	11.2	C
22								8.2	9.8	11.0	12.4	11.6
23								2.7	3.5	4.0	9.4	12.4
24	3.5						2.6	5.8	9.2	11.4	11.8	12.2
25	3.8	3.2	3.2	3.9			G	11.0	11.0	12.6	12.6	12.6
26	3.6	2.3		2.1	3.1		4.2	8.6	10.9	12.0	12.6	12.6
27	5.0	7.0	4.3	3.1	6.5	8.6	6.6 ^{cus}	8.8	11.6	12.0	12.6	12.2
28		2.3	2.4				2.5	6.4	10.4	11.2	13.4	12.9
29							8.0	8.8	10.6	12.2	12.0	11.8
30				6.8			8.0	11.6	10.8	12.0	12.2	12.4
31							7.0	8.8	12.0	12.0	12.1	13.1
Count	8	7	4	5	2	1	17	29	30	30	30	29
Median	3.7	3.4		3.9			2.5	8.2	10.7	11.4	12.4	12.2
Mean	4.3	3.8		4.2			4.2	8.0	10.5	11.5	12.1	12.3

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic fo Es
Unit Mc
Month May, 1962

TABLE 71
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12 4	12 0	6 0	G	10 0								1
11 0	G	G	G	8 8	4 8	3 8	4 4	2 8				2
11 0	9 4	12 0	7 8	10 0						2 2		3
12 0	11 0	16 4	8 2	G	4 4							4
11 4	11 2	12 4	G	G								5
12 6	12 0	11 0	20 0	14 2	4 6							6
14 0	C	11 8	8 3	17 6								7
12 6	14 0	12 6	13 6	6 7		10 0	9 6					8
12 4	12 8	12 4	10 0									9
14 0	12 0	12 4	9 8	8 4	8 2	9 4						10
12 2	12 3	10 8	9 9	8 3	5 7							11
12 2	12 0	10 0	5 4	8 2	8 2	9 2	7 4	5 4				12
13 6	11 8	10 4	10 2	12 2			8 0					13
12 0	11 4	11 0	8 0	C	C							14
9 0	9 0	8 7	8 0	G	6 4	4 4						15
13 0	12 4	12 4	10 8	11 2	C	5 7	5 6	3 8	2 8			16
13 6	12 4	9 2	4 3	3 4	2 8							17
12 4	12 6	12 6	9 6	12 0	10 0	8 8	8 8				8-4	18
15 0	13 0	11 6	9 0	7 2								19
12 8	12 8	15 0	15 0	7 4	G							20
C	C	C	9 8	12 2	7 4							21
11 4	11 4	11 4	9 8	7 4	6 6	7 2						22
11 6	11 6	11 6	10 4	8 0	3 0							23
12 2	C	12 0	10 0	12 2			4 3	14 8	5 0			24
12 4	12 4	9 8	12 4	12 4	7 8	4 3	4 0	3 4			- 2 4	25
13 3	12 9	12 8	11 8	9 7	20 1	10 7	5 0			3 1		26
21 5	21 3	G	7 4	G	G		6 3	6 6	2 3		3 8	27
12 7	13 8	12 0	8 4	8 6	G		4 5	8 7				28
12 1	11 8	12 3	10 7	9 4	8 0	10 2	7 6		S			29
12 8	12 6	D25 0	12 0	13 6	9 8	8 6	6 6			4 0		30
10 4	G	G	7 4	G	G		6 4	3-1			4 7	31
30	28	30	31	29	20	12	14	8	3	3	4	Count
12 4	12 0	11 7	9 8	8 6	6 0	8 7	6 4	4 6				Median
12 7	12 4	12 1	9 9	10 0	7 4	7 7	6 3	6 1				Mean

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

Characteristic fo Es
 Unit Mc
 Month May, 1962

TABLE 71 (contd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo Es
 Unit Mc
 Month May, 1962

TABLE 71 (contd.)
 Ionospheric Data
 75°E Mean Time

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

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fb Es
 Unit Mc
 Month May, 1962

TABLE 72
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

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

Characteristic fb Es
Unit Mc
Month May, 1962,

TABLE 72
Ionospheric Data
75 E Mean Time

Latitude 10 2° N
Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
	3 8	3 5		3 2								1
3 9				2 9	3 0	3 3	3 2					2
5 1	3 7	3 9	3 4	3 2						2 1		3
3 9	3 6	5 2	3 2		2 8							4
3 8	3 7	3 6										5
												6
3 8	3 6	3 5	4 8	7 0	3 4							7
3 7	C	3 5	3 2	4 3								8
3 8	4 0	3 6	4 5	3 4		3 6	2 6					9
3 8	3 8	3 6	3 7									10
3 8	3 7	3 6	3 2	3 0	3 0	5 2						11
												12
3 9	3 9	3 6	3 4	3 2	2 6							13
3 8	3 7	3 7	3 8	3 2	2 9	4 6	3 2	3 0				14
2 8	3 8	3 6	3 4	3 4								15
3 8	3 8	3 6	3 2	C								16
4 0	4 0	3 7	3 4	G	3 1	2 6						17
												18
3 8	3 8	3 6	3 5	3 6	C	2 5	2 9	2 0	1 9			19
3 8	3 8	3 6	3 3	3 0	2 6							20
3 8	3 8	3 6	3 5	3 0	4 2	3 2	2 0				2 6	21
3 9	3 8	3 6	3 4	3 2	2 6							22
												23
C	C	C	3 4	4 0	3 2							24
4 0	4 0	3 8	3 5	3 4	3 0	2 7						25
4 0	3 9	3 6	3 5	3 1	2 8							26
3 9	C	3 6	3 6	4 7			3 4	2 5	1 7			27
3 8	3 9	4 3	3 8	3 7	2 8	2 0	1 7	1 8			1 4	28
												29
3 8	3 7	3 5	3 3	3 3	5 0	1 9	1 7					30
6 0	6 8		3 4				1 9	2 7			1 7	31
3 9	3 6	3 6	3 3	2 9			1 9	2 5				32
3 8	3 8	3 6	3 3	2 9	2 8	4 5	3 1		2 2			33
3 8	3 7	5 4	3 7	4 0	3 4	2 8	2 4			1 9		34
												35
3 7			3 6				1 8	1 7				36
												37
2 9	2 6	2 7	2 8	2 4	1 7	1 2	1 4	7	3	2	3	Count
3 8	3 8	3 6	3 4	3 2	3 0	3 0	2 5	2 5				Median
3 9	3 9	3 8	3 5	3 5	3 1	3 2	2 5	2 3				Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fb Es
Unit Mc
Month May, 1962

TABLE 72 (contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2.5	3.0	3.3	3.6	3.8	3.9
2							2.6	3.0	3.2	3.6	3.7	3.8
3								3.0	3.4	3.6	3.7	4.0
4							2.5	2.9	3.4	3.6	3.8	3.8
5							2.4	3.0	3.3	3.6	3.7	3.8
6							2.5	3.0	3.4	3.6	3.8	3.8
7							2.4	3.0	3.3	3.6	3.8	3.8
8								3.0	3.4	3.6	3.8	3.8
9							2.7	3.0	3.3	3.6	3.8	3.9
10							G	3.0	3.3	3.6	3.8	3.8
11							G	3.0	3.4	3.6	3.8	4.0
12							3.5	3.0	3.3	3.5	3.6	3.8
13	2.5						G	3.0	3.2	3.6	3.8	4.0
14							G	G	3.3	3.5	3.7	3.8
15							G	3.2	3.4	3.7	3.8	4.0
16							C	C	C	C	C	3.8
17						1.9	2.5	3.0	3.4	3.7	3.8	3.8
18							2.5	3.0	3.3	3.6	3.7	3.8
19	1.3	1.5	1.4	1.5			2.5	3.0	3.4	3.6	3.8	4.0
20	2.3	1.6		1.7			2.6	3.0	3.4	3.6	3.8	3.8
21	2.6	1.7	1.8				2.5	2.9	3.4	3.6	C	C
22							2.6	3.1	3.5	3.7	3.8	3.8
23							2.5	G	3.3	3.6	3.8	3.9
24							2.5	3.2	3.5	3.6	4.0	4.0
25	1.7	1.4	2.0	1.3			2.6	3.2	3.4	3.6	3.8	3.8
26	1.6	S		1.7	1.3		2.4	2.9	3.3	3.7	3.8	3.8
27	1.8	1.6		1.8	2.2	2.1	2.7	3.0	3.3	3.5	3.6	3.9
28		1.4	1.6				2.5	2.9	3.3	3.4	3.8	3.9
29							2.5	3.0	3.3	3.4	3.6	3.7
30			1.9				2.5	2.9	3.3	3.5	3.7	3.8
31							2.4	3.0	3.3	3.5	3.7	3.8
Count	7	6	5	5	2	2	28	30	30	30	29	30
Median	1.8	1.6	1.8	1.7			2.5	3.0	3.3	3.6	3.8	3.8
Mean	2.0	1.5	1.7	1.6			2.5	3.0	3.3	3.6	3.8	3.9

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fb Es
 Unit Mc
 Month May, 1962.

TABLE 72 (concl'd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

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

Characteristic fmin
Unit Mc.
Month . May, 1962.

TABLE 73
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	2.5	2.7	2.5	1.7	1.7	1.8	2.0	2.5	2.7	2.6	2.8	3.1
2	2.5	2.6	2.4	S	1.5	S	2.0	2.0	2.4	2.6	2.9	3.0
3	2.4	2.0	2.2	1.4	1.3	E	2.0	1.9	2.6	2.8	2.9	3.4
4	2.4	2.3	2.3	1.8	S	E	2.1	2.2	2.4	2.7	2.8	C
5	2.4	1.9	2.2	2.2	1.7	E	2.2	1.9	2.3	2.5	C	2.8
6	2.0	1.9	1.8	S	S	S	2.2	1.7	1.9	2.6	2.9	3.0
7	2.5	2.2	2.4	1.7	1.7	E	1.5	1.6	2.0	2.5	2.6	2.7
8	C	C	C	C	C	C	C	C	2.0	2.4	2.6	2.8
9	2.6	F	2.1	1.8	2.4	E	2.2	2.2	2.6	2.6	3.0	3.0
10	2.3	2.6	S	2.4	E	E	2.2	1.7	2.0	2.6	2.6	2.8
11	2.4	1.7	1.8	1.6	1.8	2.0	1.8	2.2	2.2	2.3	2.6	2.8
12	1.8	1.6	2.0	1.9	1.9	R	1.6	1.7	2.0	2.4	2.6	2.6
13	1.5	2.3	1.6	1.7	2.2	1.6	2.0	1.9	2.0	2.4	2.6	2.7
14	2.1	2.0	1.7	1.7	1.7	E	1.7	2.0	1.8	2.5	2.7	2.7
15	2.4	2.0	1.7	1.8	1.9	E	1.6	1.9	2.0	2.4	3.0	3.0
16	C	C	C	C	C	C	C	C	C	C	3.0	2.6
17	1.6	1.5	F	F	1.8	F	2.1	1.3	1.7	1.8	2.0	2.4
18	1.7	1.4	1.3	F	1.5	1.5	1.3	1.6	1.6	2.0	2.1	2.2
19	1.1	1.5	1.2	1.1	1.8	E	1.3	1.7	1.8	2.2	2.3	2.5
20	2.0	1.5	1.3	1.2	1.3	1.4	1.4	1.6	1.6	2.0	2.2	2.5
21	1.4	1.3	1.6	1.5	1.5	1.3	2.1	1.4	1.6	2.0	2.2	C
22	1.7	1.8	1.6	F	F	2.4	2.4	1.7	1.7	2.3	2.6	3.0
23	1.9	1.4	E	E	E	C	1.8	2.4	2.6	2.3	2.3	2.6
24	1.8	F	1.8	E	2.2	E	1.6	2.2	2.4	2.4	2.6	2.6
25	1.3	1.4	1.4	1.3	1.1	E	1.6	1.6	1.8	2.2	2.5	2.6
26	1.3	1.2	1.3	1.4	1.3	1.4	1.5	1.6	1.9	2.3	2.6	2.6
27	1.3	1.3	1.3	1.1	E	1.1	1.2	1.8	1.9	2.2	2.6	2.6
28	1.1	1.3	1.3	1.3	1.4	1.2	1.4	1.7	2.0	2.3	2.7	2.5
29	1.6	1.8	1.5	1.8	1.6	1.3	1.2	1.5	1.6	2.0	2.3	2.3
30	1.6	1.5	1.4	1.4	1.9	1.7 _{up}	1.4	1.5	2.0	2.4	2.5	2.6
31	1.8	1.6	1.6	1.4	1.2	E	1.4	1.6	1.7	2.1	2.2	2.2
Count	29	27	27	24	26	23	29	29	30	30	30	29
Median	1.8	1.7	1.6	1.6	1.6	1.1	1.7	1.7	2.0	2.4	2.6	2.6
Mean	1.9	1.8	1.7	1.6	1.7	1.6	1.8	1.8	2.0	2.3	2.6	2.7

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic from
Unit Mc
Month May, 1962

TABLE 73
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

	12	13	14	15	16	17	18	19	20	21	22	23	Date
4.8	3.0	2.7	2.5	2.1	2.4	2.3	2.5	2.1	2.7	2.6	2.4		1
5.1	3.2	2.9	2.5	2.4	2.9	2.4	2.3	2.0	2.5	2.7	2.5		2
5.1	3.0	2.7	2.5	3.2	2.3	2.8	2.4	2.6	2.4 ^{US}	1.5	1.7		3
5.0	2.6	2.4	2.3	2.6	2.2	2.3	2.6	2.4	2.3	2.4	2.6		4
3.2	2.8	2.6	2.5	2.5	2.5	2.3	2.5	2.2	2.1	S	1.9		5
2.6	2.6	2.7	2.3	2.6	3.0	2.6	1.8	2.0	1.5	C	1.8		6
2.6	C	2.4	2.4	2.3	2.6	C	C	C	C	C	C		7
3.0	2.8	2.6	2.6	2.9	2.6	2.6	2.2	2.4	2.4	1.9	2.8		8
2.8	2.8	2.6	2.6	3.1	3.2	2.4	2.5	1.7	2.0	1.6	2.3		9
2.8	2.8	2.6	2.5	2.4	2.0	1.9	2.6	2.5	2.1	2.6	2.1		10
2.8	2.8	2.6	2.6	2.6	2.3 ⁹	2.4	2.0	1.9	C	C	C		11
2.7	2.7	2.5	2.5	2.6	2.6	2.0	2.4	1.7	2.6 ⁹	1.8	2.0		12
2.7	2.7	2.8	2.8	2.6	2.6	2.7	1.6	S	2.4	2.5	2.4		13
2.8	2.8	2.6	2.4	C	C	2.4	1.9	2.0	1.8	2.0	2.4		14
3.0	3.0	2.8	2.6	2.7	2.0	1.6	1.5	1.9	1.9	2.0	C		15
2.4	2.5	2.6	2.5	1.8	C	2.4	1.6	1.8	1.5	1.7	1.6		16
2.4	2.4	2.3	2.2	2.0	1.7	1.6	1.6	1.8	1.6	1.7	1.9		17
2.3	2.2	2.2	2.0	2.4	1.6	1.0	1.9	2.4	2.0	1.6	2.4		18
2.6	2.4	2.6	2.2	2.1	2.5	1.7	1.9	2.6	2.3	2.2	2.4		19
2.4	2.6	2.3	2.0	2.1	1.8	1.7	1.7	1.7	1.7	1.3	1.2		20
C	C	C	2.3	2.2	2.6	1.9	1.8	1.4	1.6	2.2	2.2		21
3.2	3.0	2.7	2.6	2.4	2.0	2.0	1.9	2.0	1.8	1.7	2.3		22
2.9	2.8	2.8	2.6	2.4	1.8	2.5	2.1	1.7	2.3	1.9	2.0		23
2.8	C	2.4	2.2	1.7	2.6	2.4	2.0	1.7	1.5	1.4	1.7		24
2.8	2.6	2.6	2.6	2.1	1.9	1.6	1.2	1.3	1.8	1.2	1.3		25
2.7	2.5	2.6	2.3	2.1	1.6	1.5	1.6	1.5	1.6	1.7	1.6		26
2.6	2.9	2.6	2.5	2.4	2.2	1.8	E	1.2	1.4	1.4	1.3		27
2.7	2.5	2.5	2.3	2.2	1.6	1.7	1.1	1.3	1.7	1.8	2.1		28
2.6	2.6	2.4	2.2	2.2	1.6	1.3	E	1.8	1.4	1.9	1.9		29
2.7	2.5	2.3	2.3	1.9	1.7	1.7	1.3	2.2	2.3	1.6	1.7		30
2.5	2.4	2.4	2.3	2.2	2.2	1.8	1.3	1.5	1.6	1.4	1.7		31
3.0	2.8	3.0	3.1	3.0	2.9	3.0	3.0	2.9	2.9	2.7	2.8		Count
2.8	2.7	2.6	2.5	2.4	2.2	2.0	1.9	1.9	1.9	1.8	2.0		Median
2.9	2.7	2.6	2.4	2.4	2.2	2.0	1.9	1.9	2.0	1.9	2.0		Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fmin
Unit · Mc
Month May, 1962

TABLE 73 (contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.4	2.4	2.4	1.7	1.7	1.9	2.3	2.5	2.6	2.8	3.0	3.0
2	2.0	2.5	2.2	1.6	1.4 _{us}	1.5	2.5	2.1	2.5	2.6	3.0	3.0
3	2.6	2.0	2.2	1.2	1.8	1.6	2.4	2.5	2.6	3.0	3.2	3.8
4	2.2	2.4	2.4	1.7	B	1.5	1.6	2.4	2.5	2.7	3.0	3.2
5	2.2	2.0	2.4	1.7	E	2.0	1.7	2.1	2.4	2.8	2.7	3.0
6	2.5	1.9	S 1	S	2.1	1.7	1.7	2.2	2.2	2.6	3.0	2.8
7	2.2	2.3	2.5	1.8	1.7	2.5	1.5	1.8	2.0	2.6	2.6	2.6
8	C	C	C	C	C	C	C	1.9	2.4	2.6	2.8	3.0
9	2.4	2.6	F	1.8	E	2.4	1.7	2.6	2.4	2.8	3.0	3.0
10	2.3	2.4	S	E	E	2.6	1.8	2.0	2.2	2.6	2.6	2.8
11	2.1	1.7	2.5	1.9	1.9	2.3	1.8	1.9	2.2	2.6	2.6	2.8
12	1.6	1.6	1.6	2.0	2.4	2.4	1.5	1.9	2.3	2.5	2.5	2.6
13	1.7	1.9	1.8	1.6	1.9	2.0	1.8	2.0	2.4	2.6	2.7	2.6
14	2.0	1.7	1.7	1.5	1.7	2.0	1.6	2.0	2.5	2.6	2.7	2.7
15	2.2	2.0	2.0	1.9	1.9	2.5	1.6	2.0	2.2	2.6	3.0	3.0
16	C	C	C	C	C	C	C	C	C	C	C	2.6
17	1.4	1.4	F	1.2 _r	2.3	1.5	1.4	1.4	1.8	2.0	2.3	2.4
18	1.5	1.5	F	1.2	1.7	1.5	1.3	1.6	1.7	2.0	2.2	2.4
19	1.1	1.3	1.3	1.3	1.6	1.5	1.5	1.7	2.0	2.1	2.4	2.6
20	1.6	E	1.0	E	1.3	1.6	1.5	1.6	1.9	2.0	2.3	2.5
21	1.6	1.6	1.8	1.6	1.4	1.6	1.4	1.5	1.8	2.2	C	C
22	1.4	1.8	1.5	F	F	2.2	2.0	1.7	1.9	2.6	2.7	3.0
23	1.7	1.5	E	E	E	1.9	1.7	2.6	1.9	2.3	2.5	2.6
24	2.4 _r	F	F	2.1	E	2.2	1.7	1.7	2.6	2.6	2.6	2.8
25	1.1	1.2	1.3	1.1	1.3	1.6	1.7	1.8	2.1	2.4	2.6	2.6
26	1.2	1.4	1.4	1.3	E	1.8	1.4	1.9	2.1	2.5	2.6	2.7
27	1.3	1.1	1.4	1.2	1.3	1.4	1.6	1.9	2.2	2.3	2.4	2.5
28	1.3	1.0	1.2	1.5	1.3	1.6	1.4	1.9	2.0	2.1	2.7	2.8
29	1.8	1.4	1.4	1.6	1.3	1.5	1.3	1.7	1.9	2.1	2.3	2.7
30	1.5	1.5	1.3	2.2	B	1.6	1.4	1.9	2.1	2.2	2.6	2.7
31	1.8	1.6	1.4	1.2	E	1.6	1.3	1.6	1.9	2.1	2.4	2.5
Count	29	29	23	27	26	29	29	30	30	30	29	30
Median	1.8	1.7	1.6	1.6	1.7	1.7	1.6	1.9	2.2	2.6	2.6	2.7
Mean	1.9	1.8	1.8	1.6	1.7	1.9	1.7	1.9	2.2	2.4	2.7	2.8

Sweep 1.0 Mc to 25.0 Mc, in 27 seconds

Characteristic fmin
Unit Mc
Month May, 1962

TABLE 73 (Contd)
Ionospheric Data
75 Γ Mean Time

Latitude 10 2° N
Longitude 77 5° E

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

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds

Characteristic h²F₂
 Unit Km
 Month May, 1962

TABLE 74
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	340	L
2								L	L	300	L	330
3								L	300	L11	320	320
4								L	L	335	365	C
5								L	L	L	C	405
6							L	L	320	360	390	420
7							L	L	L	330	330	330
8							C	C	L	330	340	360
9							L	L	300	325	350	390
10							L	L	280	310	360	360
11							L	L	L	375	380	370
12							L	L	L	L	L	355
13							L	L	L	L	330	365
14							L	L	L	L	L	L
15							L	L	L	L	L	L
16							C	C	C	C	350	320
17							L	L	L	310	350	360
18							L	L	310	340	380	390
19							L	L	L	350	340	360
20							L	L	L	320	340	400
21							L	L	300	320	350	C
22							L	L	L	310	310	360
23							L	L	280	305	370	370
24							L	L	315	320	355	425
25							L	L	L	L	400	420
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	1 H
31							L	L	L	L	L	L
Count									8	16	20	20
Median									300	320	350	360
Mean									300	330	350	370

Sweep 1 0 M to 25 0 M in 27 seconds

Characteristic h'F2
 Unit Km
 Month May, 1962

TABLE 74
 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
350	320	300	L	L	L							1
340	325	305	295	L	280							2
B	320	300	300	300	300							3
360	340	A	L	280	I							4
390	345	305	300	L	I							5
440	360	320	A	A								6
360	C	310	300	A	L							7
350	350	340	A	L								8
380	370	330	315	L								9
390	370	350	330	300								10
360	L	340	L	L	L							11
340	L	345	L	L	L							12
L	360	L	L	L	L							13
340	L	L	L	C	C							14
L	L	L	L	L	L							15
385	340	310	L	L								16
355	370	330	300	L	L		L					17
380	360	340	310	300								18
390	370	360	320	L	L							19
370	360	L	350	L	L		L					20
C	C	C	340	A								21
370	380	360	290	295								22
370	360	425	360	340	L							23
420	C	390	370	A	L							24
420	400	350	315	310	L		L					25
L	L	L	L	L	A							26
L	A	L	L	320	300		L					27
L	L	L	L	L	L							28
L	LH	I	L	LH	L		A					29
L	380	A	320	L	I							30
385	345	L	360	330								31
22	20	19	17	9	3							Count
370	360	340	315	300								Median
375	355	335	320	310								Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic $h^{\prime}F_2$
Unit Km
Month May, 1962

TABLE 74 (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	345	350
2							L	L	L	L	L	310	L
3								L	300	325	320	340	
4								L	L	L	L	L	355
5							L	L	L	L	L	405	400
6							L	L	320	370	440	430	
7							L	L	320	330	340	355	
8							C	300L	320	330	360	360	
9							L	L	310	340	370	390	
10							L	280	305	360	375	380	
11							L	L	L	L	L	375	
12							L	L	L	L	360	340	
13							L	L	L	340	L	L	
14							L	L	L	L	L	L	
15							L	L	335	L	L	L	
16							C	C	C	C	C	390	
17							L	L	L	300	370	370	
18							L	300	320	350	410	380	
19							L	L	L	320	340	390	380
20						L	L	L	L	315	340	330	380
21							L	L	315	340	C	C	
22							L	L	310	320	340	370	
23						L	L	285	300	345	370	420	
24							L	L	320	340	350	395	
25							L	L	330	360	420	410	
26								L	L	L	L	L	L
27							L	L	L	L	L	L	L
28								L	L	L	L	L	L
29							L	L	L	L	L	L	L
30							L	L	LH	LH	L	380	
31							L	L	L	L	380	380	
Count								4	15	16	19	22	
Median									320	340	370	380	
Mean									315	340	370	380	

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

Characteristic h'F2 TABLE 74 (contd) Latitude 10 2° N.
 Unit Km Ionospheric Data Longitude 77 5° E
 Month May, 1962 75°E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
340	310	L	L	L								1
340	310	235	300	L								2
320	300	295	300	300								3
335	320	305	290	L								4
360	325	300	300	280								5
360	340	340	A									6
350	320	310	A	L								7
360	340	A	A	L								8
375	350	315	L	L								9
390	380	315	310	L								10
400	370	L	L	L	L							11
335	L	L	L	L	L							12
L	360	L	L	L								13
L	L	L	C	C								14
L	L	L	L	L								15
350	330	310	L	L								16
320	330	320	L	L	L							17
390	360	320	L									18
380	380	340	L	280	L							19
400	380	340	300	L	L							20
C	C	320	L	L								21
360	370	340	L	A								22
405	390	350	L	L	L							23
C	360	365	L	L	L							24
440	390	340	300	L	L							25
L	L	L	C	L	A							26
A	A	L	340	305	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L	A						29
385	360	A	320	L		A	A					30
350	340	340	330	L								31
22	23	19	10	4								Count
360	350	320	300									Median
365	350	325	310									Mean

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

Characteristic h'F
Unit \ Km
Month May, 1962

TABLE 75
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	320	300	280	275	250	240	260	240	200	200	200 ^H	200 ^H
2	260	280	S	300 ^{us}	240	220 ^{us}	245	225	200	200	200	195
3	295	290	290	250	220	E	240	220	220	205	200	200
4	F	F	F	240	S	B	240	200 ^H	200	200	185	C
5	320	320	320	270	220	E	240	220	180 ^H	200	C	200
6	360	420	400	S	S	S	220	220	215	190	200	200
7	330	310	300	230	240	E	255	230	220	220	200	200
8	C	C	C	C	C	C	C	C	200	190	190	200
9	360	F	260	260	255	E	240	225	205	200	200	200
10	320	300	S	280	E	E	240	220	200	180	195	190
11	300	300	300	240	220	260	240	230	210	200	200	195
12	320	350	360	310	265	R	240	215	200	200	190	180
13	F	F	260	230	210	220	240	220	200	195	200	200
14	240	230	200	200	240	260	240	220	205	200	200	200
15	310	300	275	260	260	E	240	220	210	200	200	200
16	C	C	C	C	C	C	C	C	C	C	200	200
17	320	400	F	F	300 ^r	F	245	230	215	200	200	180
18	315	340	370	F	240	260	240	220	210	195	190	180
19	255	300	320	320	260	E	240	220	200	180	190	180
20	280	290	285	320	310	280	250	220	210	200	190	195
21	240	270	300	260	230	260	240	200	210	200	200	C
22	280	300	380	F	F	240	240	230	220	200	200	200
23	320	350	E	E	E	C	245	220	210	180	190	195
24	300	F	330	E	280	E	250	225	220	215	200	200
25	310	340	350	330	260	E	240	235	210	200	200	195
26	280	305 ^F	325	360	280	240	240	225	215	210	200	200
27	270	290	F	310	F	A	240	235	215	195	195	190 ^{IT}
28	F	F	F	280	220	225	240	215	225	210	210	200
29	320	330	300	270	235	240	255	240	220	215	200	200
30	270	260	250	240	235	240	250	220	200	195 ^{IT}	195	195 ^{IT}
31	295 ^{ur}	310	F	250	255	E	245	220	205 ^{IT}	195	200	200
Count	26	24	22	25	25	23	29	29	30	30	30	29
Median	305	300	300	270	250	260	240	220	210	200	200	200
Mean	300	310	305	275	250	245	245	225	210	200	195	195

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

Characteristic h'F
Unit Km
Month May 1962

TABLE 75
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
B	200	200	215	230	240	260	280	300	305	285	270	1
200	200 _{it}	205	210	220	250	260	260	260	280	290	300	2
B	200 _{it}	200	200	200	230	260	260	265	300	330	340	3
195	185	A	175 _{it}	220	230	255	260	265	260	280	320	4
195	180	195 _{it}	200	200	220	240	260	250	260	S	320	5
195	195	180	A	A	260	250	270	300	340	C	340	6
190	C	200	200	A	250	C	C	C	C	C	C	7
200	200	190	A	230	220	260	260	265	280	280	380	8
200	195	180	225	220	265	260	280	260	265	270	320	9
180	190	195	180	215	240	A	240	260	270	300	300	10
180	190	185	180	200 _H	220	215	240	240	C	C	C	11
195	180	180	205	220	230	A	280	300 _F	320 _F	340	F	12
180 _{it}	185	200	200	220	220	260	280	S	250	260	260	13
200	200	180	200	C	C	240	260	260	255	260	300	14
195	200	200	200	215	240	250	260	280	280	300	C	15
190	200	195	200	240	C	260	260	240	230	240	265	16
180	190	195	210	205	240	255	240	220	240	250	280	17
180	180	180	175	220	195	260	240	240	240	230	240	18
175	175	180	200	200	225	250	240	240	240	245	260	19
180	180	180	175	210	240	250	250	240	240	250	240	20
C	C	C	200	A	230	255	240	230	230	230	260	21
200	195	200	200	225	240	255	225	230	240	250	295	22
195	195	180	210	210	240	260	235	225	245	260	270	23
200	C	180	190	A	240	260	260	260	270	265	280	24
180	195	240	220	240	240	260	260	270	240	225	255	25
200	190	195	200	225	A	240	220	225	240	245	260	26
A	A	200	215	215	230	260	265	300	320	380	F	27
200	190	195 _{it}	215	215	230	270	260	265	245	250	305	28
195	185 _{it}	200	215	215 _{it}	240	A	300	290 _r	290	295	295	29
200	200	A	A	A	255	260	260	260	265	270 _{ur}	290 _{ur}	30
180	195 _{it}	195 _{it}	220 _{it}	225	240	265	270	285	270	250	255	31
27	27	28	28	25	28	27	30	29	29	27	26	Count
195	195	195	200	220	240	260	260	260	260	260	285	Median
190	190	195	200	215	235	255	255	260	265	270	290	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'F
Unit Km
Month May, 1962

TABLE 75 (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	315	290	280	260	240	260	240	220	210	200	200 _{IT}	215
2	260	300	310	260	230	250	240	220	200	200	200	200
3	290	290	280	230	220	250	240	225	210	210	200	200
4	F	Γ	300	220	B	260	230	205	200	200	195	200
5	335	330	310	230	E	260	225	215	200	185	190	180
6	400	360	S	S	270	250	240	210	200	200	200	200
7	330	300	270	240	260	300	240	230	220	200	200	195
8	C	C	C	C	C	C	C	220	200	190	200	200
9	340	280	F	250	E	260	235	220	200	200	200	200
10	320	300	S	E	E	270	230	200	200	195	190	180
11	300	300	260	240	220	240	235	220	200	200	200	180
12	320	360	320	300	F	260	220	210	200	195	180	180
13	F	280	245	220	200	240	220	200	195	185	200	190
14	240	205	200	220	250	255	230	220	200	200	200	195
15	320	300	260	260	260	260	235	220	200	195	180	195
16	C	C	C	C	C	C	C	C	C	C	C	180
17	370	400	F	340 _F	250	270	240	210	210	190	180	180
18	320	360	F	270	220	260	230	210	200	195	180	180
19	270	320	320	280	240	260	235	210	195	185	190	180
20	280	280	300	335	300	270	230	215	205	200	195	190
21	255	290	295	240	240	260	230	200	200	200	C	C
22	275	330	400	F	F	245	235	220	210	210	200	200
23	360	345	E	E	E	275	235	215	210	200	195	195
24	F	F	F	320	E	265	245	215	210	200	200	200
25	325	345	E	300	235	260	235	220	200	195	195	190
26	300	320	360 _{UF}	F	260	260	235	220	200	205	200	200
27	A	300 _U	F	F	290	270	235	200	210	195	190	180 _H
28	Γ	F	F	245	225	265	230	230	220	200	200	200
29	320	310	280	240	240	270	240	230	215	205	200	190
30	265	260	250	240	B	260	235	210	195 _H	185 _{IT}	195	200
31	290 _I	F	295 _I	250	Γ	270	235	210 _H	205	200	200	200
Count	24	25	21	25	26	29	29	30	30	30	29	30
Median	320	300	280	245	255	260	235	215	200	200	200	195
Mean	320	310	290	260	245	260	235	215	205	195	195	190

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic f_oF_2 TABLE 75 (contd.) Latitude 10 2°N
 Unit Km Ionospheric Data Longitude 77 5°E
 Month May, 1962 75°E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
200	205 _{it}	210	A	240	250 _{it}	260	300	315	300	275	265	1
190 _{it}	215	220	220	230	A	A	260	280	290	300	300	2
200	200	A	220 _H	230	260 _H	260	260	290	320	340	360	3
200	185	185	205 _{it}	225	240	240	260	260	280	290	320	4
180	180 _{it}	200 _{it}	200	235	240	240	250	240	270	315	360	5
190	190	190	A	240	240	260	280	320	380	C	320	6
195	200	200	A	240	C	C	C	C	C	C	C	7
200	200	A	A	230	280	260	270	270	290	320	370	8
200	190	220	260	220	250	260	280	270	270	300	320	9
180	200	180	210	220	250	A	260	260	280	300	300	10
180	180	180	180 _{tr}	220	220	240	C	230 _H	C	C	C	11
195	200	190	220	210 _H	240	265	300	300 _F	320 _F	360 _F	F	12
195	200	200	A	A	250	270	300	260	260	260	250	13
200	185	195	C	C	C	240	260	260	240	290	310	14
195	200	200	220	220	250	260	280 _F	280	280	315	C	15
200	200	200	200	240	255	260	250	240	240	240	280	16
180	185	200	200	215	245	240	235	220	240	270	295	17
180	180	180	215	220	A	260	240	235	240	240	250	18
180	180	185	210	215	250	240	240	230	260	245	275	19
180	180	180	215	220	250	260	240	240	240	250	240	20
C	C	190	200	220	250	240	225	235	240	260	280	21
195	195	200	200	A	245	240	220	240	240	260	300	22
200	200	200	205	225	250	245	225	230	230	270	280	23
C	195	170	250	240	245	250	260	280	280	275	290	24
190	240	240	220	230	240	260	275	260	230	240	270	25
195	190	195	C	220	A	225	220	230	240	260	255	26
A	A	200	215	220	255	260	270	295	345	360	F	27
195	195	185 _{it}	220	220	270	290	260	260	245	270	320	28
190	200	210	205	240	A	A	300	300	290	300	280	29
205	205	A	220	A	260	265	260	260	265	290 _{UF}]	300 _F	30
190	200 _{it}	180 _{it}	220	235	270	270	275	280	260	245	240	31
28	29	28	24	27	25	27	29	30	29	28	26	Count
195	200	195	215	225	250	260	260	260	265	275	290	Median
190	195	195	215	225	250	255	260	260	270	285	295	Mean

Sweep 1 0 Mc to 25.0 Mc in 27 seconds

Characteristic 'h'E
Unit Km
Month May, 1962

TABLE 76^a
Ionospheric Data
75°E Mean Time

Latitude 10 2 N
Longitude 77 5 E

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

^a S wave 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'E
Unit Km
Month May, 1962

TABLE 76
Ionospheric Data
75 E Mean Time

Latitude 10 2°N
Longitude 77 5°E

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

		115	110	120								

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

'262

Characteristic h'E
Unit Km
Month May, 1962

TABLE 76 (contd)
Ionospheric Data
75°E Mean Time

Latitude 10 2°N
Longitude 77 5°E

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

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

Characteristic · h'E
Unit · Km
Month May, 1962.

TABLE 76 (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	110	A									1
B	115	115	115	B								2
B	115	A	B	B								3
A	A	A	100	120								4
A	A	105	105	120								5
A	A	A	A	A								6
A	A	A	A	A								7
A	A	A	A	A								8
A	A	A	A	A								9
A	A	A	A	A								10
A	A	A	A	A								11
A	A	A	A	A								12
A	A	A	A	A								13
A	A	A	A	C								14
A	A	A	100									15
A	A	A	A	100	A							16
A	A	110	115	120	140							17
A	A	A	A	A								18
A	A	A	A	120								19
A	A	A	A	120	130							20
C	C	A	120	A								21
A	A	A	A	A								22
A	A	A	A	A								23
C	A	A	A	A								24
A	A	A	A	A								25
A	A	A	C	A	A							26
A	A	A	115	120	105							27
A	A	A	A	A								28
A	A	A	A	A	A							29
A	A	A	A	A								30
115	110	110	120	120	115							31
1	3	5	8	8	4							Count
		110	115	120								Median
		110	110	120								Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'Es
Unit Km
Month May, 1962

TABLE 77
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								100	100	100	100	100
2								100	100	100	100	100
3	120							100	100	100	100	100
4								100	100	100	100	C
5								100	100	100	C	100
6								100	100	100	100	100
7							155	100	100	100	100	100
8								C	100	100	100	100
9								G	100	100	100	100
10								120	100	100	100	100
11							G	G	100	100	100	100
12							G	100	100	100	100	100
13	100							G	100	100	100	100
14							G	G	100	100	100	100
15							G	G	100	100	100	100
16								C	C	C	100	100
17								100	100	100	100	100
18							135	100	100	100	100	100
19	120	120	120	120			115	100	100	100	100	100
20	120	120					160	130	100	100	100	100
21		120						100	100	100	100	C
22								100	100	100	100	100
23							150	150	150	100	100	100
24	120						100	100	100	100	100	100
25	130	130	125	120			G	100	100	100	100	100
26	120	125		105	120		100	100	100	100	100	100
27	115	120	120	115	100	100	100	100	100	100	100	100
28		130	120				120	100	100	100	100	100
29							115	100	100	100	100	100
30				120			100	100	100	100	100	100
31							120	115	100	100	100	100
Count	8	7	4	5	2	1	12	24	30	30	30	29
Median	120	120		120			120	100	100	100	100	100
Mean	120	125		115			120	105	100	100	100	100

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

Characteristic h'Es
Unit Km.
Month May, 1962

TABLE 77
Ionospheric Data
75 E Mean Time

Latitude 10 2° N
Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic $h'Es$
Unit Km
Month May, 1962

TABLE 77 (contd.)
Ionospheric Data
75 F 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	100	100	100	100	100
2							100	100	100	100	100	100
3							100	100	100	100	100	100
4							100	100	100	100	100	100
5							100	100	100	100	100	100
6							G	100	100	100	100	100
7							120	100	100	100	100	100
8							C	100	100	100	100	100
9							140	100	100	100	100	100
10							G	100	100	100	100	100
11							G	100	100	100	100	100
12							100	100	100	100	100	100
13	100						G	100	100	100	100	100
14							G	G	100	100	100	100
15							G	100	100	100	100	100
16							C	C	C	C	C	100
17						140	130	100	100	100	100	100
18							100	100	100	100	100	100
19	120	120	120	120			120	100	100	100	100	100
20	140	120		120			150	100	100	100	100	100
21	120	120	120				100	100	100	100	C	C
22							160	100	100	100	100	100
23							120	G	100	100	100	100
24							G	100	100	100	100	100
25	130	125	120	120			120	100	100	100	100	100
26	120	125		120	115		100	100	100	100	100	100
27	105	120	135	115	100	100	100	100	100	100	100	100
28		120	115				100	100	100	100	100	100
29							100	100	100	100	100	100
30			120			125	100	100	100	100	100	100
31							120	100	100	100	100	100
Count	7	7	6	5	2	3	21	28	30	30	29	30
Median	120	120	120	120			100	100	100	100	100	100
Mean	120	120	120	120			115	100	100	100	100	100

Swap 10 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
Unit Km.
Month May, 1962

TABLE 77 (contd.)
Ionospheric Data
75 E Mean Time

Latitude 10.2° N
Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic M (3000) F2
 Unit —
 Month May, 1962

TABLE 78
 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 80	3 10	3 20	3 30	3 40	3 55	3 15	3 20	2 70	2 50	2 60	2 60
2	3 10	3 20	S	S	3 50 _{US}	S	3 40	3 10	2 55	2 70	2 70	2 60
3	2 90	2 90 _{Ur}	3 00	3 10 _{US}	3 30	E	3 30	3 15	3 00	2 40	2 50	2 60
4	F	F	F	F	S	B	3 30	3 00	2 50	2 60	2 60	C
5	S	2 80	3 90	2 30	3 60	E	3 50 _{US}	2 90	2 60	2 70	C	2 50
6	2 60	2 75	2 60	S	S	S	3 50	3 20	2 60	2 50	2 55	2 50
7	2 70	2 80	3 00	3 30	3 40	E	3 10	2 95	2 80	2 45	2 45	2 55
8	C	C	C	C	C	C	C	C	2 60	2 50	2 55	2 55
9	F	F	3 45	F	3 45	E	3 55	3 30	3 00	2 30 _{Ur}	2 50	2 50
10	2 65	3 00	S	3 50	E	E	3 45	3 45	3 00	2 50	2 45	2 50
11	3 00	2 85	3 00	3 30	3 45	3 60	3 50	3 20	2 80	2 40	2 45	2 60
12	2 80	2 75	2 60	3 00	3 35	R	3 20	3 00	2 55	2 55	2 50	2 50
13	F	F	F	F	3 60	3 50	3 30	3 20	2 85	2 35	2 70	2 60
14	3 10	3 30	3 50	3 65 _S	3 50	3 30	3 40	3 30	3 00	2 50	2 30 _{Ur}	2 40
15	2 85	2 95	3 00	3 20	3 45	E	3 40	3 20	2 70	2 55	2 50	2 60
16	C	C	C	C	C	C	C	C	C	C	2 60	2 51
17	2 75	2 50	2 45 _r	F	F	F	3 30	3 00	2 60	2 30	2 50	2 45
18	2 90	2 80	2 75	F	3 50	3 60	3 30	3 00	2 50	2 55	2 50	2 40
19	3 15	3 10	2 80	3 00	3 35	E	3 50	3 35	2 95	2 45	2 50	2 55
20	3 25	3 10	2 95	2 80	2 85 _F	F	2 95 _r	3 15	2 80	2 40 _{Ur}	2 50	2 40
21	3 25	3 00	2 85	3 30	3 50	3 45	3 40	3 25	2 90	2 30 _{Ur}	2 50	C
22	3 10	2 90	2 70 _F	F	F	F	3 30 _F	3 15	3 00	2 60	2 45	2 40
23	3 00	F	E	E	E	C	3 35	3 40	3 10	2 85	2 45	2 30 _{Ur}
24	3 05 _{Ur}	F	3 00	E	3 35	E	3 30	3 20	3 00	2 60	2 40	2 50
25	2 75	2 90	2 90	3 10	3 40	E	3 20	3 20	2 80	2 30	2 40	2 55
26	3 10	3 15 _{Ur}	F	F	F	3 25 _{Ur}	3 15	3 05	3 00	2 65	2 40	2 35
27	3 20	3 05	F	3 15 _{Ur}	F	3 25	3 05	3 00	2 75	2 40	2 50	2 50
28	F	F	F	F	3 35 _r	3 45	3 20	3 15	2 90	2 55	2 40	2 50
29	2 75	2 80	2 85	3 10	3 35	3 40	3 15	3 00	2 65	2 55	2 60	2 65
30	2 95	3 10	3 30	3 40	3 45	3 60	3 10	3 00	2 75	2 70	2 45	2 35
31	F	3 00 _{Ur}	F	3 35 _{Ur}	3 40	E	3 10	2 90	2 65	2 55	2 50	2 45
Count	23	23	20	17	21	11	29	29	30	30	30	29
Median	2 95	2 95	2 90	3 20	3 40	3 45	3 30	3 15	2 80	2 50	2 50	2 50
Mean	2 95	2 95	2 95	3 20	3 40	3 45	3 30	3 15	2 80	2 50	2 50	2 50

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic M (3000) F2
 Unit —
 Month May, 1962

TABLE 78
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.70	2.75	2.85	2.90	2.90	2.85	2.80	2.75	2.75	2.80	2.95	3.00	1
2.70	2.75	2.90	3.00	3.00	3.10	3.10	3.05	3.05	3.00	2.85	2.90	2
2.60	2.70	2.90	3.00	3.10	3.20	3.10	3.10	3.10	2.80	2.70	2.65us	3
2.60	2.60	2.85	3.00	3.10	3.05	3.10	3.10	3.10	3.10	3.00	2.90	4
2.50	2.70	2.80	3.00	3.10	3.20	3.40us	3.20	3.20	3.25	S	2.80us	5
2.50	2.70	2.65	2.70	2.90	2.95	3.00	3.00	2.85	2.60	C	2.80	6
2.50	C	2.55	2.85	2.95	3.10	C	C	C	C	C	C	7
2.60	2.50	2.55	2.65	2.80	2.80	2.90	3.00	2.90	F	2.85	2.55	8
2.50	2.50	2.65	2.70	2.90	2.85	3.00	3.00	3.00	3.10	3.10	2.90	9
2.45	2.50	2.60	2.80	2.85	2.90	2.95	3.10	3.10	3.00	3.05	2.80	10
2.50	2.40	2.50	2.50	2.70	2.90s	2.90	3.05	3.10	C	C	C	11
2.55	2.60	2.60	2.65	2.80	2.90	2.90	2.85	2.90	2.90	2.75	F	12
2.50	2.45	2.60	2.70	2.60	2.65	2.60	2.60	2.90s	3.00	3.05	3.10	13
2.50	2.55	2.55	2.65	C	C	3.00	3.00	3.05	3.10	3.05	2.85	14
2.45	2.45	2.60	2.80	2.80	2.90	2.95	2.90	2.85	2.90	2.90	C	15
2.45	2.60	2.60	2.55	2.65	C	2.80	3.00	3.25	3.20	3.40	3.00	16
2.50	2.50	2.70	2.40	2.90	3.00	3.10	3.25	3.50	3.40	3.00	3.00	17
2.45	2.50	2.55	2.70	2.90	3.00	3.10	3.20	3.20	3.40	3.35	3.40	18
2.50	2.40	2.50	2.60	2.85	3.00	3.10	3.25	3.40	3.45	3.25	3.30	19
2.45	2.55	2.45	2.50	2.60	2.80	3.00	3.15	3.30	3.25	3.10	3.15	20
C	C	C	2.60	2.70	2.95	3.20	3.35	3.25	3.35	3.30	3.10	21
2.40	2.25	2.40	2.50	2.60	2.90	3.05	3.15	3.30	3.30	3.30	3.00	22
2.40	2.30	2.30	2.45	2.50	2.65	2.95	3.20	3.40	3.10	3.15	3.00	23
2.30	C	2.35	2.60	2.70	2.90	3.00	3.10	3.00	2.95	3.00	3.05ut	24
2.50	2.50	2.70	2.80	2.80	2.95	2.95	3.00	3.00	3.30	3.30	3.10	25
2.40	2.45	2.45	2.50	2.55	2.70	2.95	3.10us	3.25	3.30us	3.10	3.05	26
2.65	2.70	2.65	2.85	2.90	3.00	2.95	2.95	2.85	2.75us	2.55us	F	27
2.50	2.45	2.50	2.55	2.55	2.55	2.60	2.80	3.00	3.05	3.00	2.80	28
2.60	2.55	2.50	2.45	2.55	2.65	2.80	2.75	F	2.75	2.85s	2.85	29
2.35	2.40	2.50	2.65	2.80	2.85	2.90	3.00	3.20	3.15	3.15	F	30
2.50	2.85	2.90	2.80	2.85	2.90	2.90	2.80	2.85	3.05	3.15	3.15	31
30	28	30	31	30	29	30	30	29	28	27	25	Count
2.50	2.50	2.60	2.70	2.80	2.90	2.95	3.00	3.10	3.10	3.05	3.00	Median
2.50	2.55	2.60	2.70	2.80	2.90	3.00	3.00	3.10	3.10	3.05	2.95	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic M (3000) F2. TABLE 78 (contd) Latitude 10 2° N
 Unit — Ionospheric Data Longitude 77 5° E
 Month May, 1962 75 E Mean Time

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic M (3000) F2		TABLE 78 (contd)											Latitude 10 2° N.	
Unit —		Ionospheric Data											Longitude 77 5° E.	
Month May, 1962		75° E Mean Time												
1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date		
2 75	2 85	2 85	2 85	2 85	2 85	2 75	2 70us	2 75	2 80	3 00	3 00		1	
2 65	2 80	2 95	3 05	3 10	3 05	3 10	3 05	3 00	3 00us	2 90	2 90		2	
2 65	2 85	3 00	3 10	3 15	3 10us	3 10us	3 10	2 90	F	2 65	2 70		3	
2 65	2 70	2 90	3 10	3 10	3 05	3 20	3 10	3 10	3 10	2 90	2 80		4	
2 60	2 80	2 90	3 10	3 15	3 30	3 20	3 20	3 25	3 05	2 80	2 50		5	
2 60	2 70	2 70	2 80	3 00	3 00	3 00	3 00	2 80	2 60	C	2 85		6	
2 50	2 50	2 70	2 90	3 00	C	C	C	C	C	C	C		7	
2 50	2 50	2 60	2 70	2 80	2 90	2 95	2 90	2 90	2 85	F	F		8	
2 50	2 50	2 70	2 80	2 80	2 90	2 90	3 00	3 05	3 25	2 85	2 85		9	
2 50	2 50	2 60	2 80	2 90	2 90	3 10	3 10	3 00	2 90	3 00	2 90		10	
2 40	2 45	2 50	2 60	2 75	2 90	3 00	C	3 20	C	C	C		11	
2 60	2 60	2 65	2 65	2 80	2 90	2 90	2 90	2 85i	2 85	2 75i	F		12	
2 50	2 50	2 70	2 65	2 65	2 60	2 65	2 80	2 80s	3 00	3 05	3 25		13	
2 55	2 50	2 60	C	C	C	3 00	3 00	3 05	3 15	2 75	2 85		14	
2 45	2 60	2 60	2 80	2 90	2 90	2 95	2 90	2 90	2 90	2 70	C		15	
2 45	2 60	2 55	2 55	2 65	2 75	2 90	3 10	3 40	3 35	3 15	2 90		16	
5 50	2 60	2 75	2 90	2 95	3 05	3 10	3 15	3 40	3 15	2 90	3 00		17	
2 45	2 50	2 60	2 80	2 95	3 05	3 10	3 20	3 20	3 30	3 40	3 35		18	
2 45	2 45	2 60	2 75	2 95	3 15	3 30	3 30	3 60	3 30	3 25	3 25		19	
2 50	2 40	2 50	2 65	2 65	2 95	3 05	3 30	3 25	3 20	3 05	3 30		20	
C	C	2 50	2 70	2 85	3 05	3 20	3 20	3 20	3 30	3 15	3 05		21	
2 30	2 30	2 45	2 60	2 70	3 05	3 20	3 30	3 40	3 30	3 20	2 90		22	
2 30	2 30	2 40	2 50	2 55	2 80	3 10	3 30	3 30	3 15	3 05	3 15		23	
C	2 30	2 50	2 60	2 80	2 90	3 10	3 05	3 10	3 00	3 00	2 85		24	
2 40	2 60	2 75	2 80	2 85	2 90	3 00	2 95	3 15	3 30	3 05	3 10		25	
2 35	2 40	2 45	C	2 65	2 80	3 05	3 20	3 25	3 20	3 15	3 15		26	
2 65	2 55	2 45	2 85	2 95	2 95us	2 90	2 90	2 85	2 70	F	F		27	
2 55	2 45	2 55	2 55	2 55	2 60	2 75	2 95	3 05	3 05	2 85	2 85		28	
2 55	2 55	2 45	2 40	2 55	2 80	2 75	2 70	2 90s	2 80	2 80	2 90		29	
2 40	2 40	2 55	2 75	2 85	2 90	2 90	3 10	3 15	3 10	F	F		30	
2 75	2 90	2 85	2 85	2 90	2 95	2 80	2 85	2 95	3 10	3 10	3 10		31	
29	30	31	29	30	29	30	29	30	28	25	24		Count	
2 50	2 50	2 60	2 80	2 85	2 90	3 00	3 05	3 10	3 10	3 00	2 90		Median	
2 50	2 55	2 65	2 75	2 85	2 95	3 00	3 05	3 10	3 05	2 95	3 00		Mean	

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic foF2
Unit Mc
Month June, 1962

TABLE 79
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	4.9	4.6	3.5	2.8	2.5	2.2	4.9	7.2	7.8	7.3	7.8	7.8
2	4.2	3.2	R	A	2.0	E	5.3	8.0	8.6	8.2	7.2	7.3
3	A	A	A	A	A	E	5.0	6.6	7.2	6.9	6.3	6.3
4	2.8	F	E	E	E	E	5.4	7.2	7.4	7.6	7.9	7.0
5	4.2	3.0	2.8	2.3	1.8	2.1 ^H	5.6	7.8	8.5	8.6	7.2	7.3
6	3.8	3.4	2.6	2.6	2.8	R	5.7	7.4	8.2	8.8	9.1	8.0
7	3.6	3.3	2.6	2.0 ^{UR}	A	C	5.6	7.2	8.2	8.4	8.4	7.6
8	5.0	3.8	3.2	2.4	2.0	2.2	5.8	7.4	8.6	8.4	8.0	7.1
9	3.6	F	F	F	R	R	5.2	7.4	8.7	9.3	8.1	6.8
10	5.0 ^{Us}	3.5	2.6	2.0	1.8	2.0	5.4	7.5	8.2	8.8	8.6 ^H	7.3
11	5.0	3.5	3.2	3.0	2.6	2.2	5.8	7.9	9.0	9.4	9.2	9.0
12	3.8	2.7	2.4	2.2	1.8	1.9	5.8	7.2	8.6	8.6	8.8	9.0
13	F	F	F	S	S	1.8	5.4	7.3	7.7	7.8	7.2	7.0
14	4.2	2.7 ^F	1.9 ^F	F	2.0	F	5.5	7.4	8.3	8.3	7.3	7.2
15	4.4	3.8	3.8	3.3	2.4	2.4	5.2	7.4	8.0	8.5	8.4	8.1
16	F	F	F	F	2.5	2.2	5.6	7.4	8.2	8.5	8.0	8.0
17	3.9	3.6	2.7	2.4	1.9	E	5.7	7.5	8.8	9.4	9.0	8.5
18	3.7	F	2.5	2.2 ^F	2.1	1.9	5.2	7.7	8.6	8.4	8.0	7.7
19	F	F	F	F	E	C	5.4	7.0	7.5	7.9	8.3	8.0
20	C	C	C	C	C	C	5.6	7.4	C	7.6	C	8.1
21	4.6	3.7	F	F	F	F	5.7	8.0	8.7	8.5	8.0 ^H	7.2
22	4.8	F	F	F	F	F	5.4	7.6	8.5	9.1	8.6	7.7
23	3.3	A	F	F	R	E	5.3	7.4	8.8	8.1 ^H	7.6	7.4
24	F	F	F	F	F	F	5.4	7.3	8.5	8.3	7.1	C
25	4.2	3.8	F	3.0	A	1.7	5.3	7.3	8.1	8.5	7.1	6.7
26	4.7	F	F	F	F	2.0 ^W	5.5	7.3	7.8	7.2	7.0	7.1
27	3.7	3.1 ^{UR}	F	2.2 ^{UF}	2.2	2.6	4.9	6.4	7.0	7.7	7.2	7.3
28	2.4	2.3 ^{UR}	2.4 ^{UR}	2.0 ^{UF}	R	1.6	5.2	7.2	8.3	8.0	7.8	7.8
29	2.9	2.7	R	F	1.7	A	4.5	6.4	6.2 ^{Us}	6.4	6.7	7.3
30	F	F	F	F	F	F	F	7.2	8.5	8.5	7.0	6.9
Count	23	17	14	15	17	19	29	30	29	30	29	29
Median	4.2	3.4	2.6	2.3	2.0	1.9	5.4	7.4	8.3	8.4	7.9	7.3
Mean	4.0	3.3	2.8	2.4	2.1	1.9	5.4	7.3	8.2	8.2	7.8	7.5

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF2
Unit Mc
Month June, 1962

TABLE 79
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
8.4	8.4	9.6	10.3	10.0	10.0	10.8	10.4	8.0	6.4	4.8	4.5	1
7.5	7.4	7.6	8.7	9.0	9.8	10.4	7.4	6.4	5.0	3.9	3.0	2
6.7	6.8	7.7	8.6	8.9	9.6	9.0	8.0	7.1	5.5	4.8	3.4	3
6.5	6.4	6.9	7.8	9.0	9.0	9.4	8.0	7.0	5.9	4.9	4.8	4
7.7	8.0	8.5	8.8	9.1	9.9	9.3	9.1	8.6	5.3	4.6	4.8	5
7.8	8.0	8.5	8.7	8.6	8.8	10.2 ^{Us}	10.4 ^{Us}	7.5	5.5	4.9	4.4	6
7.5	7.2	7.7	7.8	8.5	9.0	9.4	9.4	8.2	7.0	5.8	6.2 ^{Us}	7
7.0	6.8	7.0	7.1	7.8	8.6	8.6	8.0	6.7	5.5	4.0	4.0	8
7.0	7.7	8.2	8.6	9.6	10.4	10.0	9.6 ^{Us}	8.4	7.2 ^{Us}	6.5	5.9	9
7.5	7.5	8.4	9.4	10.0	9.0	9.8	9.0	7.0	6.3	5.9	6.2 ^{Us}	10
8.6	9.0	9.4	10.4	10.6	10.2	10.0	9.2	7.2	6.4	5.6	5.2	11
8.8	8.7	9.1	11.0	10.8	8.8	7.9	7.0	5.6	4.3	3.9	3.6	12
7.2	7.8	8.6	9.2	9.5	9.2	10.2	10.2	7.6	6.0	5.6	5.2	13
7.4	8.0	9.0	9.5	9.9	10.1	9.7	9.4	8.4	7.6	6.5	5.3	14
8.2	8.3	8.8	9.2	9.7	10.4	10.1	9.6	9.2	7.1	5.7	F	15
8.0	8.3	9.2	10.4	9.6	10.2	10.8	9.8	7.8	7.0	5.5	4.8	16
8.5	8.4	8.5	9.0	9.0	10.5	10.9	9.3	6.8	4.8	4.1	4.0	17
8.0	8.1	7.8	8.6	9.0	9.2	10.1	8.8	7.6	6.1	5.8	4.4	18
8.2	9.0	9.2	C	C	9.8	10.1	10.0	7.5	6.0	5.5	C	19
8.6	8.3	8.4	8.6	9.0	8.9	9.2	9.7	8.4	6.0	5.5	5.3	20
7.0	7.4	7.6	8.0	8.4	8.4	8.6	8.6	8.0	C	C	C	21
7.8	8.3	7.7	7.9	8.1	9.1	10.0	9.4	6.2	5.0	4.4	4.1	22
8.0	8.2	8.1	8.0	8.6	9.1	10.6	9.4	7.7	5.6	4.7	4.6	23
C	C	8.0	8.7	9.5	10.1	10.4	9.7	7.4	7.2	6.8	5.4	24
7.1	7.5	8.3	9.1	9.7	9.2	9.0	9.4	8.5	7.1	5.8	5.6	25
7.0	7.5	7.9	8.3	8.6	9.9	10.0	8.6	6.7	5.3	4.5	3.9	26
7.6	7.3	7.4	7.8	7.8	8.2	9.6 ^{Us}	9.3	6.7	4.3	2.8	2.6	27
8.2	8.6	8.7	10.0	9.5	10.2	10.6	9.7	8.2	5.5	3.1	3.0	28
7.7	8.1	8.0	8.1	8.5	9.0	9.0	9.1	9.3	6.3	4.4	F	29
7.5	8.0	8.4	8.8	8.5	9.3	9.1	9.8	9.4	7.8	6.8	5.5	30
29	29	30	29	29	30	30	30	30	29	29	26	Count
7.7	8.0	8.4	8.7	9.0	9.2	10.0	9.4	7.6	6.0	4.9	4.7	Median
7.7	7.9	8.3	8.8	9.2	9.5	9.8	9.2	7.6	6.0	5.1	4.6	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF2
Unit Mc
Month June, 1962

TABLE 79 (contd)
Ionospheric Data
75 E Mean Time

Latitude 10 2° N.
Longitude 77 5° E.

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	4.5	4.5	3.2	2.6	2.1	3.5	6.6	7.6	7.1	7.6	7.9	8.1
2	3.7	2.8	A	A	E	4.0	6.5	8.3	8.3	8.0	7.2	7.5
3	A	A	S	A	E	3.6	5.9	7.1	7.0	6.6	6.3	6.4
4	2.4 _F	E	E	E	E	3.8	7.1	7.3	7.5	8.1	C	6.6
5	3.4	2.9	2.6	2.0	1.7	4.1	7.0	8.1	8.3	C	7.2	7.5
6	3.5	3.0	2.5	2.7	2.4	1.0	6.9	7.7	8.4	9.1	8.6	8.0
7	3.4	3.0	2.2	A	A	4.2	6.8	7.8	8.6	8.7	8.0	7.6
8	4.4	3.6	2.6	2.1	1.8 _F	4.0	6.6	7.6	8.6	8.2	7.6	7.0
9	F	F	F	F	1.7 _{UR}	3.7	6.6	8.0	9.0	8.8	6.9	6.9
10	4.3	3.0	2.4	1.8	1.7	3.9	6.5	7.9	8.6	8.4 _U	7.4	7.4
11	4.3	3.2	3.0	2.8	2.4	4.0	7.0	8.2	9.8	9.3	9.0	9.3
12	3.0	2.6	2.2	2.2	1.9	4.0	6.4	7.8	8.6	9.0	9.0	8.8
13	F	F	F	S	S	3.8	6.3	7.6	8.0	7.2	7.2	7.3
14	3.2	2.4 _t	1.9 _F	2.0	1.5 _{JR}	3.8	6.6	8.0	8.4	8.0	6.9	7.2
15	4.0	3.5	3.7	2.9	2.0	3.9	6.6	7.8	8.6	8.6	8.2	8.2
16	F	F	F	3.0	2.0	4.0	6.9	8.0	8.3	8.0	7.9	8.0
17	3.8	3.2	2.5	2.1	E	4.0	7.0	8.4	9.4	9.0	8.6	8.3
18	3.3	F	2.3	2.1	2.2 _t	3.7	6.3	8.6	8.5	8.4	7.7	7.8
19	F	F	F	F	E	3.5	6.5	7.1	7.8	8.4	C	8.0
20	C	C	C	C	C	C	6.7	7.3	7.7	7.8	C	8.7
21	4.2	3.1	F	R	F	3.7	6.8	8.0	8.6	8.2	7.3	6.9
22	3.9	F	F	F	F	3.9	6.4	8.1	9.4	8.7	7.6	7.6
23	2.4 _U	E	F	E	E	3.7	6.5	8.1	8.6	7.9 _U	7.3	7.5
24	3.5	F	F	F	R	3.5	6.8	8.3	8.4	7.4	C	C
25	3.8	4.0	3.2	2.1	R	3.6	6.3	7.8	8.7	7.7	6.8	6.8
26	4.1 _U	F	F	F	F	3.6	6.5	7.8	7.5	7.0	6.9	7.0
27	3.3	F	F	2.2	2.3 _F	3.9	6.0	6.5	7.3	7.3	6.8	7.6
28	2.3	2.4 _{UF}	2.3	F	F	3.5	6.4	7.7	8.2	8.0	7.7	8.2
29	2.7	2.5	2.0	F	A	3.4	5.9	6.2	6.2	6.7	7.0	7.5
30	C	C	C	C	C	C	C	7.7	8.6	7.8 _U	6.8	7.2

Count	23	16	15	17	19	28	29	30	30	29	26	29
Median	3.5	3.0	2.5	2.1	1.7	3.8	6.6	7.8	8.4	8.0	7.4	7.5
Mean	3.5	3.3	2.8	2.3	2.0	3.8	6.6	7.8	8.3	8.1	7.5	7.6

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF2
Unit Mc
Month June, 1962

TABLE 79 (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
8.4	8.8	9.8	10.4	10.0	10.3	10.6	8.4	7.1	5.4	4.5	4.4	1
7.4	7.4	8.2	9.3	9.7	10.0	8.0	6.9	5.6	4.3	3.3	3.0	2
6.6	7.0	8.1	8.7	9.4	8.6	8.5	7.6	6.4	5.3	4.0	3.1	3
6.3	6.6	7.5	8.6	8.6	8.7	8.9	7.7	6.6	5.3	4.6	4.7	4
7.6	8.4	8.8	8.9	9.5	9.7	9.1	8.6	7.1	4.4	4.9	4.2	5
8.0	8.2	8.8	8.7	8.7	9.8 ^{us}	10.4	8.6	6.7	5.2	4.4	3.8	6
7.5	7.6	8.0	8.0	8.6	9.2	9.6 ^{us}	9.2	7.8	6.2	6.0 ^{us}	5.6	7
6.9	6.8	7.0	7.2	8.4	9.0	8.4	7.4 ^{us}	6.3	4.6	4.2 ^{us}	3.8	8
7.4	8.0	8.1	9.0	10.0	10.2	9.8 ^{us}	8.8	7.6	6.8	5.9 ^{us}	5.8	9
7.6	7.7	8.6	9.6	9.5	C	9.5	7.6	6.7	6.2	6.1	5.8	10
8.8	9.2	9.9	10.6	10.6	10.0	10.2	8.2	6.8	6.0	5.6	4.8	11
8.8	8.6	10.2	10.6	9.8	8.1	7.6	6.2	4.8	4.2	3.8	F	12
7.4	8.4	9.2	9.0	9.2	9.3	11.2	8.8	6.6	6.0	5.3	4.8	13
7.6	8.5	9.2	9.9	10.5	9.7	9.6	8.8	8.0	7.1	6.1	4.8	14
7.8	8.7	9.0	9.6	10.1	10.2	9.9	9.5	8.4	6.2	F	F	15
8.1	8.6	9.6	9.8	10.0	10.4	11.2	9.0	7.5	6.1	4.9	4.4	16
8.5	8.6	8.8	8.9	9.5	10.6	10.1	8.2	5.7	4.3	4.3	3.8	17
8.0	8.0	8.4	8.6	9.0	9.7	10.1	8.5	6.8	5.9	5.4	3.6	18
C	9.2	9.2	C	9.7	9.9	10.6	8.3	6.5	5.7	4.5	C	19
8.2	8.3	8.6	9.0	9.0	9.0	9.4	9.0	7.3	5.6	5.4	5.1	20
7.2	7.6	7.8	8.4	8.2	8.7	8.6	8.5	7.4	C	C	C	21
8.0	8.1	7.8	7.8	8.6	9.4	10.4	7.5	5.4	4.5	4.3	4.2	22
7.8	8.2	7.9	8.4	8.8	9.9	10.0	8.4	6.4	5.1	4.6	F	23
C	8.1	8.4	9.2	9.8	10.1	10.6	8.2	7.4	7.0	6.4	4.8	24
6.8	8.0	8.5	9.5	9.8	9.1	9.4	9.2	7.8	6.0	5.3	5.2	25
7.1	7.9	8.0	8.4	9.1	10.2	9.5	7.4	6.2	5.0	4.1	3.7	26
7.4	7.2	7.7	8.1	8.2	9.4	10.3	8.1	5.7	3.6	2.5	2.5	27
8.3	8.8	9.4	9.8	10.1	10.3	10.8	9.3	7.0 ^{us}	4.1	3.0	3.1	28
8.0	8.3	8.2	8.4	8.8	9.2	9.2	10.1	7.6	5.1	4.2	F	29
7.8	8.2	C	8.6	8.6	9.4	9.4	9.3	8.6	7.0	6.2	4.7	30
28	30	29	29	30	29	30	30	30	29	28	24	Count
7.7	8.2	8.5	8.9	9.4	9.7	9.7	8.4	6.8	5.4	4.6	4.4	Median
7.7	8.1	8.6	9.0	9.3	9.6	9.7	8.3	6.9	5.5	4.8	4.3	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF1
 Unit Mc
 Month June, 1962

TABLE 80
 Ionospheric Data
 75 E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	4.6	4.7
2								L	L	L	L	4.6
3								L	L	4.4	L	4.7
4								L	L	L	4.5	4.6
5								L	L	L	4.6	4.6
6							L	L	L	L	L	4.8
7								L	L	4.6UL	4.8L	4.7
8								L	L	L	4.7	4.8
9								L	4.4	L	4.6	4.7U
10							L	L	L	L	4.9	4.8
11								L	L	4.7	4.9	4.8
12								L	L	4.3	4.9	4.8
13								L	L	L	4.6	L
14								L	L	L	L	5.2H
15								L	L	L	L	4.8
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	5.2L
19								L	L	L	L	5.2L
20								L	L	C	L	5.2L
21								L	L	L	L	4.8
22								L	L	L	L	4.6
23								L	L	4.8	4.8	L
24								L	L	L	L	C
25								L	L	L	L	L
26								L	L	L	L	4.6
27								L	L	4.6	4.5	4.6
28								L	L	L	4.5	4.6
29								L	LH	LH	LH	4.5
30								L	L	4.6	L	4.8
Count									3	8	13	24
Median										4.6	4.7	4.7
Mean										4.7	4.7	4.8

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic foF1
 Unit Mc
 Month June, 1962

TABLE 80
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

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

Characteristic foF1
 Unit Mc
 Month June, 1962

TABLE 80 (contd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N.
 Longitude 77 5° E.

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2							L	L	L	L	4.6	4.7
3								L	L	4.5	4.7	4.8
4							L	L	L	4.4	C	L
5							L	L	L	C	4.6	L
6							L	L	L	4.6	4.8	4.9
7							L	L	L	L	4.8	4.7
8							L	L	L	4.9UL	4.7	4.8
9							L	L	4.5	4.7	L	4.7
10							L	L	L	4.7	4.8	4.8
11							L	L	4.7	4.9	4.7	4.9
12							L	4.7	4.8	4.9	5.0	4.9
13							L	4.7	L	4.6	5.0	L
14							L	L	L	L	L	5.2
15							L	L	L	L	4.8	4.9
16							L	L	L	L	L	5.2
17							L	L	L	L	L	L
18							L	L	L	L	L	5.2
19							L	L	L	L	C	L
20							L	L	L	L	C	5.2
21								L	L	L	L	4.9
22							L	L	L	4.8	4.8	L
23							L	L	L	L	4.8	4.8
24							L	L	L	L	C	C
25							L	L	L	L	L	L
26							L	L	L	L	4.6	4.5
27							L	LH	L	4.5	L	4.6
28							L	L	L	L	4.6	4.6
29							L	L	L	LH	4.6	4.5
30							C	L	L	L	4.6	4.6
Count								2	4	10	17	21
Median										4.7	4.7	4.8
Mean										4.7	4.7	4.8

Sweep 1 0 Mc to 15 0 Mc in 27 seconds

Characteristic foF1 Unit Mc Month June, 1962
 TABLE 80 (contd) Ionospheric Data 75°E Mean Time
 Latitude 10 2° N. Longitude 77 5° E.

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L	L							1
4.6	L	A	L	L	L							2
4.7	4.5	L	A	L	L							3
4.6	L	4.4	L	L	L							4
L	L	L	L	L	L							5
4.8	4.8UL	L	L	L								6
4.7	4.7	4.6H	L	L	L							7
4.8UL	4.7	L	L	L	L							8
4.6H	4.6	L	L	L	L							9
4.7	L	L	L	L	C							10
4.9	4.8	4.7	4.5	L								11
4.8	A	4.7	4.4	4.4	L							12
4.6	L	A	L	L	L							13
L	L	4.5	L	L	L							14
4.7	4.8	L	L	L	L							15
L	L	L	L	L	L							16
L	A	A	L	A	A							17
5.2	5.1	L	L	L	L							18
C	L	L	L	L	L							19
5.2	L	L	L	A	A							20
4.9	L	L	L	A	L							21
L	L	L	L	L	L							22
L	4.7	L	L	L	L							23
C	4.5	A	L	L	L							24
L	LH	A	A	LH	LH							25
A	L	L	L	L								26
4.5	L	L	L	L								27
4.7	4.6	4.4	L	L								28
4.6	4.5	L	L	L								29
4.7	L	C	L	L	L							30
<hr/>												
19	12	6	2	1								Count
<hr/>												
4.7	4.7	4.6										Median
<hr/>												
4.7	4.7	4.6										Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo,E
Unit Mc
Month June, 1962

TABLE 81
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77 5° E'

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

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

Characteristic fo E
Unit Mc
Month June, 1962.

TABLE 81
Ionospheric Data
75 E Mean Time

Latitude 10 2° N
Longitude 77 5° E.

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	3.9	A	3.2	2.9	2.3							1
A	A	A	A	A	A							2
A	A	A	A	A	A							3
A	A	A	A	3.0	2.6							4
A	A	A	A	R	2.4							5
A	A	A	A	A	A							6
A	A	A	A	A	2.4							7
A	A	A	A	A	A							8
A	A	A	A	3.0	2.6H							9
A	A	A	A	2.9	2.5UR							10
A	A	A	3.2	2.5								11
A	A	3.5	3.3	2.9								12
A	A	A	A	A								13
A	A	3.4	3.4	2.9	2.5							14
A	A	A	A	2.9	2.5							15
A	A	A	3.2	3.0	2.6							16
A	A	A	A	3.0								17
A	A	A	A	A	A							18
A	A	3.5	C	C	2.5							19
A	A	A	A	A	A							20
A	A	A	A	A	A							21
A	A	A	A	2.9	2.4							22
A	A	A	A	A	A							23
C	C	A	A	A	2.3							24
A	A	A	A	A	A							25
A	A	A	3.1H	2.9H	2.4							26
A	A	A	A	R	R							27
A	A	A	A	2.8UR	2.3							28
A	A	A	A	A	2.4UR							29
A	A	A	A	2.7	2.4							30
	1	2	6	14	17							Count
				3.2	2.9	2.4						Median
				3.2	2.9	2.4						Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fo E
Unit Mc
Month June, 1962

TABLE 81 (contd.)
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77 5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							A	A	A	A	A	A
2							A	A	A	A	A	A
3							A	A	A	A	A	A
4							2 3	2 8	A	A	C	A
5							2 4	A	A	C	A	A
6							2 4H	A	A	A	A	A
7							A	A	A	A	A	A
8							2 2UR	A	A	A	A	A
9							2 2	A	A	A	A	A
10							2 3	A	A	A	A	A
11							2 1	A	A	A	A	A
12							2 3	2 8	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							2 4	A	A	A	A	A
18							A	A	A	A	A	A
19							A	A	A	A	A	A
20							A	A	A	A	C	A
21							2 3	A	A	A	A	A
22							A	A	A	A	A	A
23							2 3	A	A	A	A	A
24							A	A	A	A	C	A
25							2 4H	A	A	A	A	A
26							A	A	A	A	A	A
27							2 3H	A	A	A	A	A
28							R	A	A	A	A	A
29							A	A	A	A	A	A
30							C	A	A	A	A	A

Count	13	2
Median	2 1	
Mean	2 3	

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo E
Unit Mc
Month June, 1962

TABLE 81 (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	3 4	3 1	R	2 2							1
A	A	A	A	A	A							2
A	A	A	A	A	A							3
A	A	A	3 1	2 7	2 2							4
A	A	A	3 3	2 7	A							5
A	A	A	A	A	A							6
A	A	A	A	A	A	1 9 ^h						7
A	A	A	A	2 7	2 0 ^h							8
A	A	A	2 4	2 7	1 9 ^h							9
A	A	A	3 0	2 5 ^{ur}	C							10
A	A	3 4	2 9	2 5								11
A	A	3 5	3 1	B								12
A	A	A	A	2 7								13
A	A	3 4	3 1	2 7								14
A	A	A	3 0	2 7								15
A	A	A	2 8	2 7								16
A	A	A	3 1	2 7								17
A	A	A	A	A								18
A	A	3 5	A	2 7								19
A	A	A	A	A	A							20
A	A	A	A	A	A							21
A	A	A	A	2 7	A							22
A	A	A	A	A	A							23
C	A	A	A	A	2 3							24
A	A	A	A	A								25
A	A	A	3 1 ^R	2 7	2 2							26
A	A	A	R	A								27
A	A	A	R	R	R							28
A	A	A	C	2 7								29
A	A	C	3 0	2 6								30
<hr/>												
		5	13	16	7							Count
		3 4	3 1	2 7	2 2							Median
..		3 4	3 0	2 7	2 1							Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo Es
Unit Mc
Month June, 1962

TABLE 82
Ionospheric Data
75°E Mean Time

Latitude 10°2' N
Longitude 77°5' E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo Es
Unit Mc
Month June, 1962

TABLE 82
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo Es
Unit Mc
Month June, 1962

TABLE 82 (contd.)
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

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

Count	11	6	8	9	3	1	29	30	30	29	26	29
Median	3 1	3 1	3 7	3 9			6 0	9 0	10 0	11 4	12 0	12 0
Mean	3 7	4 2	3 2	3 8			6 3	9 1	10 2	11 4	11 7	11 7

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fo Es
 Unit Mc
 Month June, 1962

TABLE 82 (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
11.4	11.0	G	G	G	G		2.2			4.4	3.2	1
12.0	10.8	17.8	9.0	8.8	5.8							2
12.4	11.6	9.4	22.0	12.6	8.4							3
12.0	12.0	9.5	7.4	G	G						2.2	4
12.4	11.6	11.0	G	G	5.4						3.6	5
12.0	11.2	10.6	8.0	6.4	11.0	7.0						6
12.0	12.2	11.4	9.6	7.6	G				2.0		4.0	7
12.0	12.2	12.2	9.0	G	G							8
12.0	11.8	7.8	G	G	G		4.6	4.4	4.4			9
12.6	8.6	8.6	6.4	3.7	C	3.4					4.1	10
9.6	8.6	G	G	4.6	4.8	4.2					5.6	11
9.8	20.0	G	G	G		3.6						12
11.0	10.8	17.8	10.5	G	5.4			4.4				13
12.0	20.0	G	G	6.0	4.5	2.6	3.3			5.8	2.4	14
11.6	11.0	9.0	G	G	2.8							15
11.6	11.4	7.8	G	G	2.9			4.0		4.4		16
11.6	11.4	9.8	12.0	13.7	11.4	11.6	8.8	6.4			8.0us	17
11.4	12.0us	11.0	7.0	10.6	11.4	4.8us						18
C	7.2	8.2	C	G	6.6us	5.6us					C	19
10.0	9.2	9.2	6.8	5.4	8.6	7.8us	5.0us			7.4	4.6	20
11.6	11.4	10.0	13.6	17.0	10.4	6.6			C	C	C	21
11.6	11.4	10.6	7.8	4.2	4.0	8.8		5.0	4.2	3.5		22
11.4	12.0	10.0	6.8	9.0	6.7	11.2	3.2			2.7		23
C	9.7	20.5	11.6	5.4	G	4.0	3.0					24
10.6	8.8	25.0db	9.0	5.6		10.1				2.7	5.0	25
11.6	11.4	9.0	G	G	G			4.2		2.1		26
10.8	11.0	9.6	G	6.5								27
10.0	10.8	12.2	G	G	G	7.6						28
11.8	9.0	8.9	8.6	6.8	G							29
8.0	18.6	C	G	6.0	5.2							30
28	30	29	29	30	26	15	7	6	3	8	10	Count
11.6	11.4	9.6	6.8	5.0	4.6	6.6	3.3	4.4		4.0	4.0	Median
11.3	11.6	11.5	9.7	7.8	6.8	6.6	4.3	4.7		4.1	4.3	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fb Es
Unit Mc
Month June, 1962

TABLE 83
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.2		1.8				2.0	2.7	3.0	3.4	3.8	3.9
2				A			G	2.8	3.0	3.4	3.6	3.7
3	A	A	A	A	A		2.1	2.8	3.1	3.4	3.6	3.8
4							G	G	2.9	3.3	3.6	3.7
5			1.1				G	2.7	3.3	3.4	3.6	3.8
6	2.2							3.0	3.5	3.8	3.7	3.8
7		1.7	1.6	1.4	A	C	2.2	2.7	3.3	3.4	3.6	3.7
8	1.8		1.5	1.6			2.0	2.8	3.1	3.6	3.8	4.0
9		1.5	1.5		1.4		G	2.7	3.2	3.4	3.6	3.6
10							2.0		3.2	3.3	3.9	4.0
11							1.9	2.8	3.2	3.4	3.6	3.8
12			1.1				2.0	2.8	3.0	3.4	3.9	4.0
13							2.0	2.7	3.1	3.4	3.6	3.8
14	1.7	1.9					2.0	2.6	3.0	3.3	3.4	3.6
15							2.0	2.8	3.0	3.7	3.7	3.8
16				1.6			2.0	2.6	3.0	3.3	3.6	3.8
17	1.6	2.0	2.4				G	2.8	3.2	3.4	3.8	3.8
18							2.0	2.7	3.1	3.3	3.6	3.7
19							2.0	2.8	3.0	3.4	3.6	3.7
20	C	C	C	C	C	C	2.0	2.8	C	3.5	C	3.8
21	1.9	1.8					G	G	3.1	3.4	3.7	3.8
22							G	2.9	2.8	3.5	3.8	4.0
23		A					G	2.8	3.0	3.5	3.6	3.8
24								2.4	3.1	3.2	3.4	C
25					A		G	2.7	3.0	3.2	3.6	3.7
26	1.4						1.9	2.6	3.0	3.3	3.5	3.6
27							G	2.7	3.0	3.4	3.6	3.7
28							G	2.6	3.0	3.3	3.5	3.6
29					1.4	A	G	2.6	3.0	3.3	3.5	3.7
30		C	C	C	C	C	C	2.8	3.8	3.3	3.5	3.6
Count	8	7	8	5	5	1	27	29	29	30	29	29
Median	1.8	1.9	1.6	1.6	A		1.9	2.7	3.0	3.4	3.6	3.8
Mean	1.7	1.5	1.6				2.0	2.7	3.1	3.4	3.6	3.8

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fb Es
Unit Mc
Month June, 1962

TABLE 83
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77 5° E.

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.7		3.5	G	G	G						2.0	1
3.6	G	3.4	5.0	3.0	3.0							2
3.7	3.7	3.5	4.9	3.5	2.5							3
3.8	3.6	3.4	3.2	G	G						1.2	4
3.8	3.7	3.5	3.2	G	G	3.0					2.1	5
3.8	3.6	3.6	3.2	3.0	4.0	3.7						6
3.8	3.6	3.6	3.2	3.0	3.2							7
4.0	3.8	3.6	3.4	3.0	G							8
3.6	3.6	3.5	3.4	G	G	1.8		2.0	2.4			9
3.8	3.7	3.6	3.6	G	G							10
4.0	3.6	3.5	3.4	G	2.7	2.2					2.5	11
3.8	5.8	3.9	G	3.0								12
3.8	3.6	3.8	3.4	3.8	2.4	2.0		2.2		1.8		13
3.8	6.2	3.5	G	G	G	1.8	1.7	1.6		1.6	1.1	14
3.8	3.8	3.8	3.4	G	2.7							15
3.7	3.7	4.4	G	G	G	2.0		1.8			1.7	16
3.8	3.8	3.8	5.0	3.6	4.0	2.4	2.8	2.8				17
3.8	3.8	3.5	3.6	3.5	5.6	2.8						18
3.8	6.0	G	C	C	G	2.3	1.8				C	19
3.8	3.8	3.6	3.5	3.2	4.0	2.4	2.2	2.0			1.6	20
3.9	3.8	3.6	5.1	4.2	7.6	3.8	2.1		C	C	C	21
3.7	3.7	3.6	3.4	3.1	2.8	2.8		2.4	2.2			22
3.9	3.8	3.6	3.5	3.0	2.8	4.4	2.3			1.8		23
C	C	3.6	4.0	3.0	G	2.0			2.1			24
3.6	3.5	4.6	4.4	3.2	2.9						1.7	25
3.7	4.2	3.8	G	G	2.7							26
3.8	3.7	3.6	3.3	G	G							27
3.6	3.7	3.8	4.0	G	G		2.3					28
3.6	3.6	3.4	3.3	3.1	G							29
3.6	3.8	3.6	3.2	G	G	2.2						30
29	29	30	29	29	29	16	8	7	3	3	8	Count
3.8	3.7	3.6	3.4	3.0	2.4	2.4	2.2	2.0			1.7	Median
3.8	4.0	3.7	3.7	3.3	3.5	2.6	2.2	2.1			1.7	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fb Es
 Unit Mc
 Month June, 1962

TABLE 83 (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	2.1					1.7	2.4	2.9	3.3	3.5	3.8	3.8
2			A	A			2.8	3.0	3.2	3.5	3.8	3.7
3	A	A		A			2.5	2.9	3.2	3.4	3.7	3.7
4							G	G	2.6	3.5	C	3.7
5							G	2.9	3.4	C	3.7	3.8
6	2.2						G	3.2	3.6	3.6	3.7	3.8
7	1.7		1.6	A	A		2.4	3.0	3.4	3.6	3.8	3.8
8	1.7		1.9				2.6	3.0	3.5	3.6	3.8	4.0
9		1.2	1.3				G	2.8	3.4	3.4	3.4	3.6
10							G	3.0	3.2	3.8	4.0	3.8
11	1.4						2.4	3.0	3.4	3.6	3.8	3.8
12							2.4	3.0	3.0	3.5	4.0	4.0
13			1.3	1.7		1.5	2.4	3.0	3.2	3.6	3.7	3.8
14	1.7						2.4	2.8	3.1	3.4	3.6	3.7
15							2.4	2.8	3.6	3.8	3.7	3.8
16				1.7			2.3	2.9	3.2	3.5	3.6	3.8
17		1.8	1.8				G	2.9	3.3	3.6	3.8	3.8
18				1.1		G	2.4	2.9	3.2	3.5	3.6	3.8
19							2.5	3.0	3.2	3.4	C	3.8
20	C	C	C	C	C	C	2.4	3.0	3.3	3.5	C	3.8
21	1.6							2.9	3.4	3.7	3.7	4.0
22							2.5	3.9	3.4	3.8	3.7	4.0
23							2.4	3.6	3.2	3.5	3.7	3.8
24							2.4	3.0	3.2	3.5	C	C
25				1.8			G	3.4	3.2	3.5	3.6	3.6
26							2.4	2.8	3.2	3.5	3.6	3.6
27							G	2.9	3.2	3.5	3.7	3.7
28							G	2.8	3.2	3.4	3.5	3.6
29					A		2.3	2.8	3.2	3.3	3.6	3.6
30	C	C	C	C	C	C	C	3.5	3.2	3.3	3.5	3.4
Count	8	3	6	7	2	3	28	30	30	29	26	29
Median	1.7		1.7	1.8			2.4	3.0	3.2	3.5	3.7	3.8
Mean	1.8		1.6				2.4	3.0	3.2	3.5	3.7	3.8

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fb Es
Unit Mc
Month June, 1962

TABLE 83 (contd)
Ionospheric Data
75 E Mean Time

Latitude 10 2° N
Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic fmin
Unit Mc
Month June, 1962

TABLE 84
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	18	19	17	19	16	14	12	15	18	20	24	25
2	13	12	15	12	11	E	15	14	20	22	24	25
3	16	10	11	E	23	E	16	16	18	21	23	24
4	15	14	E	E	E	E	13	16	19	20	22	24
5	11	14	10	11	11	12	12	14	18	19	21	23
6	15	17	E	E	11	14	13	16	15	20	22	24
7	15	14	13	11	14	C	16	16	17	21	22	23
8	13	16	12	F	13	12	16	16	17	19	22	20
9	12	E	E	11	E	16	13	14	16	17	22	17
10	15	12	12	14	E	13	14	15	16	20	23	24
11	13	14	15	14	14	13	11	13	15	18	26	28
12	19	14	10	14	13	12	12	16	17	22	22	24
13	F	15	E	12	17	14	10	15	16	22	23	25
14	11	11	12	12	20	12	12	15	15	18	20	22
15	E	13	E	11	11	11	12	14	16	19	23	25
16	13	11	11	11	16	14	12	13	15	20	24	26
17	14	16	15	17	15	E	11	15	17	22	26	25
18	14	13	E	E	E	11	12	14	16	19	23	24
19	14	F	F	E	E	C	12	15	16	18	22	26
20	C	C	C	C	C	C	E	14	C	19	C	24
21	14	15	16	17	15	17	13	17	16	22	22	25
22	16	12	14	16	15	16	13	14	19	23	24	28
23	18	15	15	16	14	E	15	17	17	23	25	27
24	14	15	13	16	11	16	12	13	15	19	21	C
25	13	14	E	E	12	15	15	18	19	23	22	24
26	12	14	13	14	S	13	13	15	18	20	24	24
27	15	15	E	E	12	13	14	15	16	19	23	25
28	14	11	E	E	E	11	14	15	18	19	23	26
29	13	13	E	E	E	13	14	15	18	21	23	26
30	17	C	C	C	C	C	C	14	16	19	21	26
Count	28	27	27	28	27	26	29	30	29	30	29	29
Median	14	14	12	11	12	13	13	15	17	20	23	25
Mean	14	14	13	14	14	13	13	15	17	20	23	24

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

Characteristic fmin
Unit Mc
Month June, 1962

TABLE 84
Ionospheric Data
75 E Mean Time

Latitude 10 2° N.
Longitude 77 5° E.

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

Sweep 1.0 Mc to 25.0 Mc, in 27 seconds

Characteristic fmin
Unit Mc
Month June, 1962

TABLE 84 (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	19	18	21	19	15	13	14	17	20	22	25	26
2	E	12	12	11	E	17	13	17	21	24	24	26
3	17	11	24	15	E	10	16	18	19	22	23	25
4	14	E	E	E	E	16	14	20	19	22	C	14
5	11	E	F	11	12	15	14	15	20	C	23	24
6	20	E	E	12	13	16	13	16	17	20	22	23
7	13	14	11	12	22	22	17	17	20	22	22	24
8	11	14	E	14	14	17	15	17	18	19	22	26
9	13	E	E	E	14	15	13	14	17	20	21	24
10	13	12	11	14	12	15	14	14	19	21	24	24
11	13	13	16	14	15	14	15	15	17	24	26	26
12	16	14	14	13	13	16	13	16	19	20	23	26
13	15	15	E	10	14	11	13	15	17	21	26	26
14	13	12	13	E	E	14	12	14	16	20	22	23
15	13	E	12	13	10	14	11	15	17	21	24	25
16	12	11	11	12	17	16	12	16	18	22	25	25
17	17	15	15	15	E	16	13	16	19	22	25	26
18	12	10	E	E	E	12	13	15	19	20	24	24
19	S	S	E	E	E	15	14	14	18	21	C	24
20	C	C	C	C	C	C	11	16	16	22	C	24
21	12	16	16	13	13	15	16	18	19	19	25	36
22	14	15	13	13	18	14	16	15	18	23	27	29
23	18	E	18	E	E	15	17	18	19	24	25	26
24	15	17	17	12	14	13	13	17	16	21	C	C
25	15	14	E	E	E	16	17	18	22	23	24	24
26	16	14	13	13	S	14	14	19	19	23	25	25
27	11	E	11	E	E	15	14	18	18	21	22	26
28	14	E	E	11	11	14	12	17	18	21	24	27
29	13	E	E	E	12	15	14	15	20	23	25	28
30	C	C	C	C	C	C	C	15	17	20	21	27
Count	27	27	28	28	27	28	29	30	30	29	26	29
Median	13	12	11	12	12	15	14	16	18	21	24	25
Mean	14	14	15	13	14	15	14	16	18	21	24	26

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic fmin
Unit Mc
Month June, 1962

TABLE 84 (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
2.5	2.6	2.2	2.2	2.1	1.7	1.5	E	1.4	1.0	E	1.2	1
2.6	2.5	2.0	2.7	2.4	2.8	2.0	1.3	1.5	1.2	2.0	1.5	2
2.3	2.3	2.3	2.1	2.0	2.5	2.2	1.8	1.9	1.8	1.6	1.7	3
2.5	2.4	2.2	2.0	2.5	1.7	2.4	1.6	1.2	1.4	1.3	1.0	4
2.5	2.3	2.3	2.1	2.0	1.8	1.8	1.7	1.5	1.5	1.7	1.3	5
2.4	2.4	2.3	2.3	1.7	1.3	1.5	2.0	1.4	1.6	1.7	1.3	6
2.4	2.2	2.0	1.8	1.8	1.6	1.6	1.3	2.6	1.7	1.5	1.2	7
2.4	2.4	2.2	2.2	2.0	1.6	1.6	1.4	1.3	1.3	1.1	E	8
2.4	2.3	2.2	2.2	1.6	1.5	1.3	1.4	1.3	1.7	2.2	1.5	9
2.4	2.3	2.1	2.6	2.3	C	1.6	1.5	1.4	1.7	1.4	1.0	10
2.6	2.6	2.6	2.4	2.0	1.3	2.1	1.8	2.0	2.3	1.8	1.7	11
3.2	2.8	2.8	2.6	3.0	2.4	1.6	1.3	1.6	1.3	1.5	S	12
2.4	2.3	2.3	2.2	1.9	1.4	2.0	1.7	1.8	1.4	2.0	1.7	13
2.3	2.2	2.4	2.5	1.8	1.6	1.4	1.1	1.6	1.5	1.1	E	14
2.5	2.5	2.2	2.3	1.9	1.5	1.6	1.4	1.5	1.8	1.3	1.3	15
2.6	2.4	2.0	2.0	2.2	1.8	1.7	1.5	1.4	1.5	1.3	1.5	16
2.6	2.4	2.5	2.8	2.1	1.6	1.3	1.3	2.0	2.2	1.9	1.3	17
2.3	2.2	1.8	2.2	2.2	2.0	1.5	2.2	1.6	1.9	1.6	1.4	18
C	2.5	2.4	C	2.0	1.6	1.2	1.5	1.7	1.3	1.3	C	19
2.6	2.4	2.2	1.9	1.7	1.5	1.2	E	1.9	1.9	1.5	1.1	20
2.5	2.6	2.4	1.8	1.6	1.4	1.2	1.7	2.1	C	C	C	21
2.5	2.5	2.5	2.4	2.1	1.7	2.0	2.4	1.9	2.2	1.9	1.5	22
2.6	2.4	2.3	2.3	1.5	1.2	1.7	1.5	1.3	1.2	1.0	1.7	23
C	2.3	2.1	1.8	1.5	1.6	1.4	1.5	1.8	2.5	2.1	1.3	24
2.5	2.5	2.3	2.0	2.0	2.8	1.9	2.2	1.7	1.6	1.5	1.1	25
2.6	2.5	2.4	2.3	2.5	1.7	1.8	1.4	1.1	1.3	1.3	1.7	26
2.5	2.5	2.4	2.5	2.4	2.2	1.9	2.0	1.8	1.7	1.4	1.4	27
2.9	2.5	2.0	2.9	2.2	1.8	1.7	1.8	1.8	1.8	1.4	1.4	28
2.5	2.6	2.3	2.4	2.0	1.9	1.7	1.5	1.6	1.4	1.9	1.6	29
2.7	2.2	C	2.6	2.0	1.8	2.3	1.8	1.8	1.7	1.6	1.4	30
28	30	29	29	30	29	30	30	30	29	29	27	Count
2.5	2.4	2.3	2.3	2.0	1.7	1.6	1.5	1.6	1.6	1.5	1.4	Median
2.5	2.4	2.3	2.3	2.0	1.8	1.7	1.6	1.6	1.6	1.5	1.4	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'F2
Unit Km
Month June, 1962,

TABLE 65
Ionospheric Data
75°E Mean Time

Latitude 10 2° N.
Longitude 77 5° E.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	400	360	320
2								L	L	L _H	360	375
3								L	L	335 _H	420	L
4								265	L	380 _H	380	420 _H
5								280	L	L _H	370	L
6							L	290	300	L	L	380
7								L	340	315	340 _L	360 _{UL}
8								L	300	L	380	400
9							L	L	300	L	360	L
10								260	L	L	390	380
11							L	L	310	330	355	390
12							L	L	300	335	340	370
13							L	L	L	350	L	L
14							L	L	L	L	380	400
15								L	L	L	350	395
16							L	L	L	L	L	390 _L
17							L	L	L	320	L	L
18							L	L	L	L	L	395 _L
19							L	L	L	340 _L	L	L
20								L	C	L	C	405
21								270	L	L	L	410
22								L	315	L	385	360
23								280	L	325 _L	385	360
24								L	L	L	L	C
25								L	L	340	L	420
26								L	L	L	L	420
27								L	L	380	380	405
28								L	L	L	390	400
29								L	L	L	L	395
30							C	L	L	350	L	400

Count	6	7	13	17	21
Median	275	300	340	380	395
Mean	275	310	345	370	390

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'F2
Unit Km
Month June, 1962

TABLE 85
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
340	L		350	310	290	L							1
L	375	L	L	L	300	280							2
400	380	380	345	L	L	275							3
L	460	L	L	300	L	L							4
395	400	340	L	L	L	L							5
360	L	360	L	L	L	L							6
360	L	380	L	L	L	L							7
400	L	L	370	L	L	L							8
L	400	370	350	300	L	L							9
L	340UL	360	340UL	300	L	L							10
370	380	360	330	L	L	L							11
380	A	365	325	300	L	L	L						12
360	400	L	L	L	L	L	L						13
L	A	330	325	300	300	300							14
405	400	370	335	340	305	305							15
L	L	A	340	L	L	L	L						16
400	395	365L	A	L	A	A							17
400	L	L	L	330	L	L							18
L	A	L	C	C	L	L							19
L	L	L	L	L	L	A							20
L	440	395	A	L	A	A							21
L	415	L	L	L	L	L							22
400	420	L	L	L	L	L							23
C	C	375	L	L	L	L							24
410	410	A	A	300	300	300							25
370	405	385	360	L	310	L							26
420	400	395	L	L	L	L							27
370	380	360	340	330L	L	L							28
400	400	360	330	L	L	L							29
375	380	360	335	L	L	L							30
19	19	19	14	11	6								Count
395	400	365	340	300	300								Median
385	400	365	340	310	295								Mean

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds

Characteristic . h'F2
 Unit Km
 Month June, 1962

TABLE 85 (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	400	350	L
2								L	L _H	400 _H	370	395
3							L	L	360	340	L	460
4								295	L	400	C	440
5							L	L	L _H	C	395	400
6							L	275	L	335	360	420
7							L	L	L	360	365	400
8							L	L	L	380 _{UL}	370	415
9							L	L	320	360	L	400
10							240	280	L	360	400	420
11							L	L	315	340	350	400
12							L	300	305	340	390	370
13							L	315	335	305	385	L
14							L	L	L	L	L	380
15								300	L	370	370	395
16							L	L	L	L	385	400
17							L	L	L	L	360	L
18							L	L	310	L	390	390
19							L	L	L	L	C	L
20							L	L	L	360	C	390
21								L	L	L	L	405
22							L	L	335	350	380	L
23							L	L	L	380	375	375
24							L	L	L	L	C	C
25								L	340	L	L	415
26							L	315	L	L	400	385
27							L	L	380	360	380	395
28							L	L	L	L	405	420 _H
29								L	L	L	390	385
30							C	L	320	L	400	360
Count							1	7	10	17	21	24
Median								300	330	360	380	400
Mean								295	330	360	380	400

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic h'F2
Unit Km
Month June, 1962

TABLE 85—Cont'd
Ionospheric Data
75 E Mean Time

Latitude 10 2' N
Longitude 77 5'

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
340	360	320	300	300	L							1
375	L	360	320	280	26D							2
440	360ff	360	A	295								3
400	L	390	L	L	L							4
390	380	L	L	L								5
360	380	L	L	L								6
410	400	360	L	L								7
L	410	L	L	L								8
400	400	L	L	300								9
380	L	340UL	300UL	L	C							10
350	360	360	315	L								11
370	A	365	300	280								12
340	385	A	L	L	L							13
405	L	320	315	300	L							14
370	370	355	345	L								15
L	L	360	L	L								16
380	A	A	L	A	L							17
390	L	L	L	A								18
C	355	370	C	L								19
L	L	L	L	A	L							20
400	420	395	L	A	A							21
405	L	L	L	L	L							22
L	390	L	L	L								23
C	345	A	L	L	L							24
L	370	A	330	310								25
A	380	380	L	L								26
420	395	390	L	L								27
370	380	380	L	335								28
390	360	370	L	L								29
385	380	C	315	L	L							30
<hr/>												
22	20	17	9	8	1							Count
390	380	360	315	300								Median
385	380	365	315	300								Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

TABLE 86
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Characteristic	h'F											
Unit	Km											
Month	June, 1962											
Date	00	01	02	03	04	05	06	07	08	09	10	11
1	250	250	250	270	260	290	255	225	215	200	200	200
2	280	280	300	A	260	E	245	220	200	200	180H	180
3	A	A	A	A	A	E	240	220	200	185H	180H	180H
4	195	F	F	L	F	L	240	220	180H	180H	195	195
5	280	270	270	F	F	270H	210	220	200	200	200	190
6	250	250	250	270	260	290	255	225	215	200	200	200
7	250	250	250	270	260	290	255	225	215	200	200	200
8	250	250	250	270	260	290	255	225	215	200	200	200
9	250	250	250	270	260	290	255	225	215	200	200	200
10	250	250	250	270	260	290	255	225	215	200	200	200
11	250	250	250	270	260	290	255	225	215	200	200	200
12	250	250	250	270	260	290	255	225	215	200	200	200
13	250	250	250	270	260	290	255	225	215	200	200	200
14	270	270	270	270	270	270	270	270	270	270	270	270
15	290	290	290	290	290	290	290	290	290	290	290	290
16	160	160	160	160	160	160	160	160	160	160	160	160
17	275	280	280	280	280	280	280	280	280	280	280	280
18	265	260	265	265	265	265	265	265	265	265	265	265
19	140H	F	F	F	F	F	240	220	200	200	195	190
20	C	C	C	C	C	C	240	220	C	180H	C	200
21	115	110	110	110	110	110	110	110	110	110	110	110
22	300	300	300	300	300	300	300	300	300	300	300	300
23	315	A	A	A	A	A	240	215	200	185	180	180H
24	370	370	370	370	370	370	260	245	210	205	195	185
25	270	260	260	260	260	260	240	230	210	205	200	180H
26	320	F	F	F	F	F	265	245	230	210	200	195
27	300	300	285	260	260	230	240	225	220	205	205	200
28	270	280	290	310	300	340	245	215	200	200	190H	190H
29	265	295	340	F	F	300	A	250	225	200H	200H	195H
30	250	F	F	F	F	F	F	230	A	200	185	180
Count	28	23	24	23	24	24	29	30	28	30	29	29
Median	285	300	300	310	275	270	240	220	200	200	195	190
Mean	295	300	315	320	285	270	240	220	205	195	190	190

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h' F
 Unit Km.
 Month June, 1962

TABLE 86
 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
185H	200H	210H	220	210	240	260	240	230	230	250	280	1
180	180	180H	A	A	240	240	240	240	220	265	320	2
180H	180	185	A	A	230	255	235	240	255	300	360	3
180H	185	180H	200	220	240	245	220	240	260	255	260	4
180H	195	200	210	220	230	250	230	220	220	245	285	5
200	200	200	180	215	A	260	230	220	225	240	240	6
200	200	200	190	220	250	260	240	240	260	260	250	7
200	180	185	200	200	230	240	220	230	220	240	240	8
180	180	185	210	220	220	260	240	240	260	240	240	9
200	200	200	220	205	220	260	240	240	240	270	240	10
200	180	180	215	215	235	260	245	260	285	300	A	11
180	A	225	215	220	225	260	240	240	240	240	260	12
190	180	215	200	A	270	250	230	240	240	270	275	13
180	A	190H	205	210	215	255	280	275	250	275	290	14
200H	185H	195	200	200	235	260	260	240	240	270	365	15
180	190	A	210	215	230	240	220	245	245	240	280	16
175H	180	185	A	240	A	240	240	240	240	255	260	17
190	185	180H	200	220	215	250	225	235	240	280	345	18
170	A	200	C	C	220	250	220	210	220	230	C	19
190	190	180H	205	205	A	260	260	240	240	270	275	20
180	185	180H	A	A	A	270	260	260	C	C	C	21
180H	180H	190H	210	215	235	255	230	240	260	260	300	22
215	200	200	205	205	235	A	215	240	245	290	370	23
C	C	210	A	220	230	260	255	240	255	250	230	24
180H	180H	A	A	220	A	270	260	260	270	265	295	25
185H	A	200H	215	220	220	245	240	235	260	300	310	26
200	185H	200	185H	220	240	260	240	235	240	250	260	27
180	190H	175H	A	220	230	260	260	240	240	250	270	28
195	190	180H	200	220	225	260	240	220	235	235	240	29
180H	200H	200	200H	200H	235	260	260	255	260	280	310	30
29	25	28	22	25	25	29	30	30	29	29	27	Count
180	185	190	205	220	230	260	240	240	245	265	280	Median
185	190	195	205	215	235	255	245	240	250	270	285	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h' F TABLE 86—Contd Latitude 10 2° N
 Unit Km Ionospheric Data Longitude 77 5° E
 Month June, 1962 75°E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	260	240	270	270	270	280	235	200 _U	220	200 _H	180 _H	200
2	280	300	A	A	E	260	220	210	200	180 _H	180	180
3	A	A	230	A	E	260	225	200	190 _H	185 _H	180 _H	180 _H
4	400	E	E	E	E	240	225	220 _H	215	180 _H	C	190
5	280	260	240	240	255	260	230	220	220	C	200	185
6	300	335	360	300	220	240	240	220	220	220	200	195
7	280	300	320	A	A	260	235	215	205	195	200	200
8	260	280	300	300	280	260	230	220	210	200	200	200
9	320	270	380 _U	360	310	260	230	200	210	200	180 _H	180
10	240	310	380	400	290	240	225	205	180 _H	200	210	200
11	235	260	280	260	250	265	230	210	210	200	200	200
12	320	335	320	250	250	260	230	220	200	190	210	200
13	340	300	240	320	260	265	200	200	185 _H	200	190	180
14	280	290	300 _F	260	220	250	220	195 _H	175 _H	180	180	180 _H
15	300	280	260	230	240	260	225	180 _H	215	205	190	200
16	360	355 _F	305 _F	280	260	260	200	200	185	175 _H	175 _H	175 _H
17	270	260	280	280	F	255	235	180 _H	200	180	170 _H	175 _H
18	270	320	335	290	220	250	235	200	200	180 _H	190	190
19	F	F	F	E	E	255	220	210	200	200	C	185
20	C	C	C	C	C	C	220	200	200	180 _H	C	200
21	340	400	F	460	355	250	220	200	205	200	180	185
22	345	380	425	360	280	245	230	A	200	200	205	180
23	F	E	300	E	L	250	225	230 _{UA}	200	185 _H	180 _H	180 _H
24	360	385	445	370	260	265	230	205	200	190	C	C
25	225	265	320	A	320	270	235	A	220	200	185	180 _H
26	360 _{UF}	F	F	F	F	260	230	220	205	195	205	195 _H
27	280	285	275	260	255	240	230	215 _H	215	200	200	195
28	280	290	295	370	F	280	230	210	200	200	190	190 _H
29	280	315	345	F	A	280	240	230	210	190 _H	190 _H	205
30	C	C	C	C	C	C	C	240	195	190 _H	180	180 _H
Count	25	25	24	22	24	28	29	28	30	29	26	29
Median	280	300	300	300	275	260	230	210	200	195	190	190
Mean	300	305	315	310	265	260	225	210	205	195	190	190

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic . h' F
Unit . Km.
Month June, 1962.

TABLE 86—*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
180 _H	AH	220	220	220	240	260	235	230	230	270	260		1
180	190	A	220	A	240	240	230	230	235	315	240		2
185 _H	200	200	A	220	240	240	240	240	275	340	380		3
180	180	180 _H	200	220 _H	245	235	240	240	260	255	280		4
200	195	200 _H	215	220	A	240	220	215	240	260	300		5
205	200	200	205	235	A	250	220	220	235	240	240		6
200	200	190	A	220	250	240	240	260	260	260	250		7
200	180	195	195	205	240	240	220	220	240	240	250		8
180	180	180	220	210	240	260	280	300	300	265	260		9
200	180 _H	200	220	220	C	250	230	260	270	260	235		10
185	190	220	220	210	240	260	250	280	300	290	320		11
180	A	220	215	220	240	255	265	300	330	345	340		12
180	180 _H	A	190	210	250	240	235	240	265	280	270		13
180	A	200	200	210	230	270	290	255	260	305	300		14
175 _H	200	200	205	200	240	250	270	280	355	380	360		15
170 _H	200	200	215	225	240	240	230	250	240	265	260		16
200	A	A	240	A	260	235	240	240	250	255	275		17
180	185	180 _H	A	A	290	230	240	235	265	310	400 _H		18
C	200	195	C	215	240	230	220	220	220	235	C		19
185	180 _H	180 _H	210	A	A	260	245	235	250	270	295		20
180 _H	180	215	A	A	A	260	255	270	C	C	C		21
180 _H	180 _H	210	210	250	245	245	240	255	260	285	305		22
205	200	200	200	A	240	A	235	240	255	310	380		23
C	200	A	A	220	240	255	245	240	255	240	230		24
180 _H	175 _H	A	A	220 _H	270	A	255	270	260	280	300		25
A	A	220	220	220	235	250	240	245	260	320	315		26
195	200	190 _H	215	230	255	245	240	230	240	270	260		27
190	180 _H	220	215	215	240	260 _{UA}	240	240	235	260	270		28
185 _H	180 _H	200 _H	200	215	245	240	225	220	230	240	240		29
190	A	C	200	220	240	255	250	255	275	300	290		30
27	25	24	23	24	25	28	30	30	29	29	28		Count
185	190	200	215	220	240	250	240	240	260	270	285		Median
185	180	200	210	220	245	250	240	245	260	280	295		Mean

Sweep 1.0 Mc to 25.0 Mc. in 27 seconds.

Characteristic $h' E$
Unit Km
Month June, 1962

TABLE 87
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

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

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic h'E
Unit Km
Month June, 1962

TABLE 87
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 3° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	105	A	105	110	120							1
A	A	A	A	A	A							2
A	A	A	A	A	A							3
A	A	A	105	115	120H							4
A	A	A	105	120	120							5
A	A	A	120	120	A							6
A	A	A	110	110	115							7
A	A	A	A	120	120							8
A	A	105	110	110	120							9
A	A	A	A	120	120							10
A	A	A	120	120								11
A	A	120	125	120								12
A	A	A	A	A								13
A	A	105	110	110	115							14
A	A	110	110	110	120							15
A	A	A	110	115	120							16
A	A	A	A	110								17
A	A	A	A	A	A							18
A	A	105	C	C	115							19
A	A	A	A	A	A							20
A	A	A	A	A	A							21
A	A	A	115	115	120							22
A	A	A	105	105	A							23
C	C	110	A	A	115							24
A	A	A	A	A	A							25
A	A	A	110	120	120							26
A	A	A	A	115	170							27
A	A	A	A	120	115							28
A	A	A	A	A	120							29
A	A	A	A	125	125							30
1	6	14	20	18								Count
	110	110	115	120								Median
	110	110	115	120								Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic : h'E
 Unit : Km
 Month : June, 1962.

TABLE 87—*contd.*
 Ionospheric Data
 75°E Mean Time

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

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

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

Characteristic h'E
Unit Km
Month June, 1962

TABLE 87 (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	105	105	110	135							1
A	A	A	A	A	A							2
A	A	A	A	A	A							3
A	A	A	105	130	130H							4
A	A	A	115	120	120							5
A	115	120	120	A								6
A	A	A	110	120	120							7
A	A	A	120	120	120							8
A	A	105	110	110	120							9
A	A	A	120	120	C							10
A	A	120	120	120								11
A	A	120	120	B								12
A	A	A	A	115								13
A	A	110	115	110								14
A	A	A	115	120								15
A	A	A	110	120								16
A	A	A	110	110								17
A	A	A	A	A								18
C	A	105	C	115								19
A	A	A	A	A	A							20
A	A	A	A	A	A							21
A	A	A	115	120	A							22
A	A	A	110	A	A							23
C	110	110	A	A	125							24
A	A	A	A	A								25
A	A	A	115	130	125							26
A	A	A	115	110								27
A	A	A	120	120	125							28
A	A	A	A	120	125							29
A	A	C	120	120								30
	2	8	20	20	10							Count
		110	115	120	125							Median
		110	115	120	125							Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
Unit Km
Month June, 1962

TABLE 88
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	115	120	110	115			100	100	100	100	100	100
2		115		110			G	100	100	100	100	100
3	115	110	115	110	110		100	100	100	100	100	100
4							G	G	100	100	100	100
5			120				G	105	100	100	100	100
6	100						140	105	140	100	100	100
7		110	115	120	105		120	110	100	100	100	100
8	110	120	115	110			120	110	100	100	100	100
9		120	100	120	100		G	100	100	100	100	100
10							140	140	100	100	100	100
11							135	100	100	100	100	100
12			120				G	125	100	100	100	100
13							110	100	100	100	100	100
14	100	105					115	100	100	100	100	100
15	135		115				105	110	100	100	100	100
16	120			105			100	100	100	100	100	100
17	110	100	105				G	110	100	100	100	100
18				120			100	100	100	100	100	100
19							100	100	100	100	100	100
20							100	100	C	100	C	100
21	110	120					G	G	100	100	100	100
22							G	100	100	100	100	100
23		115					G	105	100	100	100	100
24							120	105	100	100	100	C
25		130		120	115		G	100	100	100	100	100
26	120						100	100	100	100	100	100
27							G	100	100	100	100	100
28							G	100	100	100	100	100
29				110	110	105	G	100	100	100	100	100
30	130							100	100	100	100	100

Count	11	11	9	10	5	1	16	28	29	30	29	29
Median	115	115	115	110	110		110	100	100	100	100	100
Mean	115	115	115	115	110		115	105	100	100	100	100

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
Unit Km
Month June, 1962

TABLE 88
Ionospheric Data
75°E Mean Time

Latitude 10 2° N
Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
 Unit Km
 Month June, 1962

TABLE 88 (contd)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic h'Es
Unit Km
Month June, 1962

TABLE 88 (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	Data
100	100	G	G	G	G		100			120	120	1
100	100	100	105	100	100							2
100	100	100	100	100	100							3
100	100	100	100	G	G						120	4
100	100	100	G	G	130						105	5
100	100	100	105	100	100	100						6
100	100	100	100	110	G				120		115	7
100	100	100	100	G	G							8
100	100	100	G	G	G		100	100	100			9
100	100	100	110	120	C	120					120	10
100	100	G	G	125	100	120					115	11
100	100	G	G	G	130							12
100	100	100	115	G	100			120				13
100	100	G	G	115	125	100	100			110	115	14
100	100	100	G	G	125							15
100	100	100	G	G	120			100		105		16
100	100	100	115	115	105	100	100	100			100	17
100	100	100	100	100	100	100						18
C	100	100	C	G	110	100					C	19
100	100	120	100	100	115	110	110			115	105	20
100	100	100	100	100	100	100			C	C	C	21
100	100	100	105	125	115	100		120	115	115		22
100	100	100	100	100	100	100	100			120		23
C	100	100	100	100	G	120	110					24
100	100	100	100	100		100				120	120	25
100	100	100	G	G	G			110		115		26
100	100	100	G	110								27
100	100	100	G	G	G	115						28
100	100	100	100	100	100							29
100	100	C	G	110	115							30
28	30	25	17	18	17	15	7	6	3	8	10	Count
100	100	100	100	100	105	100	100	105		115	115	Median
100	100	100	105	105	110	110	105	110		115	115	Mean

Sweep 1.0 Mc to 25.0 Mc in 27 seconds

Characteristic (M 3000) F2
 Unit —
 Month June, 1962

TABLE 89
 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 40	3 30	3 40	3 35	3 30	3 00	2 90	3 00	2 70	2 45	2 50	2 50
2	2 90	2 95	R	A	3 30	E	3 30	3 00	2 70	2 15	2 50	2 50
3	A	A	A	A	A	E	3 10	2 70	2 60	2 45	2 45	2 30
4	2 70	F	E	E	E	E	3 50	3 50	3 00	2 55	2 20	2 45
5	2 80	3 20	3 20	3 30	3 30	2 75 ^H	3 30	3 20	2 90	2 50	2 50	2 30
6	3 10	2 90	2 80	2 90	3 40	R	3 50	3 40	3 20	2 90	2 25	2 45
7	3 25	3 05	3 00	3 10 ^{UR}	A	C	3 30	3 20	3 00	2 70	2 40	2 45
8	3 30	3 10	3 10	3 00	3 10	3 20	3 30	3 20	3 00	2 60	2 40	2 55
9	2 85	F	F	F	R	R	3 30	3 10	3 00	2 80	2 30	2 50
10	3 35 ^{us}	3 10	2 80	2 60	2 85	3 30 ^H	3 50	3 50	3 10	2 80	2 15 ^H	2 50
11	3 40	3 30	3 10	3 20	3 45	3 60	3 30	3 20	3 00	2 65	2 35	2 70
12	2 90	2 90	2 90	3 10	3 40	3 40	3 40	3 25	3 15	2 95	2 50	2 50
13	F	F	F	S	S	3 60	3 15	2 95	2 65	2 50	2 50	2 35
14	3 05	3 05	3 00 ^F	F	3 50	F	3 30	3 10	2 80	2 40	2 40	2 45
15	2 90	2 85	3 00	3 30	3 45	2 70	3 00	3 15	2 75	2 55	2 50	2 35
16	F	F	F	F	3 50	3 50	3 20	3 00	2 75	2 50	2 50	2 50
17	3 10	3 30	3 40	3 40	3 50	E	3 40	3 25	2 90	2 65	2 50	2 45
18	3 15	F	2 80	3 00	3 30	3 55	3 20	3 00	2 80	2 50	2 35	2 50
19	F	F	F	F	E	C	3 30	2 90	2 60	2 70	2 55	2 80
20	C	C	C	C	C	C	3 05	3 00	C	2 50	C	2 50
21	2 70	2 50	F	F	F	F	3 40	3 40	3 05	2 65	2 45 ^H	2 40
22	2 85	F	F	F	F	F	3 25	3 20	3 00	2 60	2 15	2 60
23	2 60	A	F	F	R	E	3 35	3 20	2 75	2 50 ^H	2 40	2 55
24	F	F	F	F	F	F	3 10	3 05	2 80	2 25	2 40	C
25	3 35	3 25	F	2 90	A	3 10	3 25	3 10	2 80	2 45	2 50	2 40
26	2 85	F	F	F	F	3 20 ^F	3 25	3 00	2 60	2 40	2 25	2 40
27	3 00	3 05 ^r	F	3 25 ^F	3 20	3 50	3 30	3 10	2 65	2 50	2 55	2 50
28	3 20	3 20	3 15 ^{ur}	2 95 ^{ur}	R	R	3 05	3 00	2 75	2 55	2 50	2 45
29	3 15	3 05	R	F	3 25	A	3 15	2 85	2 85 ^{us}	2 60	2 55	2 60
30	F	C	C	C	C	C	C	3 20	2 90	2 50	2 40	2 45
Count	23	17	13	14	15	13	29	30	29	30	29	29
Median	3 05	3 05	3 00	3 10	3 30	3 30	3 30	3 10	2 80	2 50	2 45	2 50
Mean	3 05	3 05	3 05	3 10	3 30	3 25	3 25	3 10	2 85	2 55	2 40	2 50

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic (M 3000) F2
 Unit —
 Month June, 1962

TABLE 89
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2 65	2 60	2 75	2 90	3 00	3 00	2 95	3 10	3 20	3 25	3 00	3 00	1
2 45	2 40	2 40	2 70	3 00	3 20	3 35	3 25	3 30	3 35	3 00	2 90	2
2 40	2 50	2 50	2 75	3 00	3 20	3 20	3 20	3 30	3 10	2 90	2 50	3
2 25	2 40	2 40	2 60	3 00	3 10	3 30	3 25	3 20	3 10	3 10	3 10	4
2 40	2 35	2 50	2 60	2 70	2 90	3 05	3 25	3 35	3 40	3 15	2 80	5
2 50	2 50	2 50	2 50	2 50	2 50	3 00	3 30	3 40	3 45	3 40	3 50	6
2 50	2 30	2 60	2 50	2 55	2 70	3 00	3 20	3 20	3 20	3 00	3 15	7
2 50	2 40	2 40	2 50	2 60	3 00	3 20	3 40	3 30	3 50	3 30	3 20	8
2 45	2 45	2 45	2 65	2 95	3 05	3 10	3 05 _{us}	3 00	3 00 _{us}	3 10	3 10	9
2 25	2 40	2 65	2 85	3 10	3 10	3 20	3 30	3 10	3 10	3 10	3 35 _{us}	10
2 60	2 55	2 60	2 80	2 90	2 85	2 95	3 00	3 00	2 90	2 95	2 90	11
2 55	2 55	2 85	3 10	3 30	3 30	3 25	3 05	2 85	2 70	2 70	2 65	12
2 55	2 45	2 55	2 70	2 80	2 85	2 95	3 15	3 10	2 95	3 05	2 95	13
2 50	2 45	2 70	2 90	3 00	3 05	2 85	2 75	2 90	3 00	2 90	2 80	14
2 40	2 40	2 50	2 60	2 75	2 85	2 90	2 95	2 95	2 75	2 55	F	15
2 40	2 50	2 70	2 70	2 80	2 80	2 90	3 20	3 20	3 20	3 10	2 95	16
2 45	2 40	2 40	2 40	2 60	2 75	3 00	3 20	3 25	3 30	3 20	3 10	17
2 50	2 45	2 45	2 50	2 70	2 80	3 10	3 20	3 30	3 20	2 90	2 60	18
2 50	2 70	2 70	C	C	2 90	2 95	3 20	3 30	3 50	3 40	C	19
2 50	2 45	2 45	2 50	2 55	2 60	2 80	3 00	3 20	3 30	3 10	3 15	20
2 40	2 35	2 50	2 40	2 55	2 60	2 90	2 90	2 90	C	C	C	21
2 55	2 40	2 20	2 45	2 55	2 80	3 00	3 15	3 20	3 05	3 05	2 85	22
2 60	2 45	2 25	2 50	2 60	2 75	3 00	3 10	3 10	3 05	2 80	2 80	23
C	C	2 50	2 50	2 75	2 95	3 00	3 10	3 05	3 20	3 15	3 25	24
2 50	2 55	2 55	2 70	2 95	3 05	3 00	3 05	3 10	3 10	3 00	2 85	25
2 50	2 50	2 60	2 70	2 70	2 90	2 95	3 05	3 05	2 95	2 75	2 75	26
2 45	2 45	2 50	2 55	2 45	2 50	2 85	3 10	3 20	3 25	3 20	3 20	27
2 55	2 70	2 65	2 80	2 80	2 90	3 05	3 10	3 25	3 25	3 25	3 20	28
2 50	2 45	2 65	2 60	2 60	2 65	2 85	3 10	3 25	3 25	3 25	F	29
2 65	2 65	2 60	2 70	2 80	2 80	2 75	2 90	3 05	3 10	3 05	2 90	30
29	29	30	29	29	30	30	30	30	29	29	26	Count
2 50	2 45	2 50	2 60	2 75	2 90	3 00	3 10	3 20	3 20	3 05	2 95	Median
2 50	2 50	2 55	2 65	2 80	2 90	3 00	3 10	3 15	3 15	3 05	3 00	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic (M 3000) F2
 Unit —
 Month June, 1962

TABLE 89 (contd.)
 Ionospheric Data
 75°E Mean Time

Latitude 10 2° N
 Longitude 77 5° E

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

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

Characteristic (M 3000) F2
 Unit —
 Month June, 1962

TABLE 89 (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 60	2 65	2 80	2 95	2 95	3 00	3 00	3 20	3 25	3 25	3 00	3 00	1
2 50	2 55	2 60	2 90	3 20	3 30	3 25	3 20	3 25	3 10	2 95 _R	2 70	2
2 50	2 50	2 60	2 80	3 00	3 10	3 20	3 20	3 25	3 10	2 70	2 65	3
2 45	2 40	2 60	2 80	3 00	3 00	3 30	3 25	3 20	3 20	3 00	2 85	4
2 35	2 40	2 50	2 65	2 80	3 00	3 10	3 20	3 50	3 30	3 10	3 00	5
2 50	2 50	2 60	2 60	2 55	2 75	3 20	3 40	3 45	3 45	3 30	3 40	6
2 50	2 50	2 60	2 50	2 55	2 90	3 15	3 20	3 15	3 25	2 90	3 30	7
2 35	2 50	2 45	2 60	2 80	3 15	3 30	3 40 _{U^a}	3 35	3 40	3 30 _{U^a}	3 25	8
2 50	2 40	2 50	2 80	2 90	3 05	3 05 _{US}	3 00	3 00	2 95	3 20	3 10	9
2 50	2 55	2 75	3 00	3 10	C	3 20	3 35	3 00	3 10	3 20	3 35	10
2 55	2 60	2 70	2 80	2 90	2 30	3 00	2 95	2 90	2 95	3 00	2 60	11
2 60	2 70	2 90	3 10	3 50	3 35	3 15	3 00	2 80	2 70	2 60	F	12
2 40	2 50	2 70	2 70	2 80	2 90	3 15	3 10	3 00	2 95	3 00	3 15	13
2 45	2 55	2 80	3 00	3 10	3 00	2 80	2 80	3 00	3 00	2 95	2 85	14
2 35	2 55	2 50	2 70	2 80	2 85	3 00	2 95	2 80	2 65	F	F	15
2 45	2 55	2 70	2 80	2 80	2 80	3 10	3 25	3 10	3 25	3 05	3 05	16
2 40	2 40	2 45	2 50	2 70	2 80	3 00	3 25	3 35	3 10	3 30	3 10	17
2 50	2 60	2 45	2 50	2 80	3 00	3 25	3 20	3 20	3 00	2 90	2 50	18
C	2 80	2 70	C	2 80	2 90	3 10	3 10	3 40	3 40	3 20	C	19
2 60	2 50	2 50	2 50	2 60	2 70	2 90	3 30	3 35	3 10	3 15	2 95	20
2 55	2 35	2 40	2 50	2 60	2 75	2 90	2 90	2 95	C	C	C	21
2 45	2 30	2 30	2 50	2 60	2 85	3 15	3 20	3 15	3 15	2 90	2 60	22
2 45	2 30	2 35	2 55	2 70	2 90	3 05	3 00	3 10	2 90	2 80	F	23
C	2 55	2 50	2 60	2 85	2 95	3 10	3 10	3 00	3 10	3 40	3 40	24
2 60	2 55	2 70	2 85	3 00	3 00	2 95	3 10	3 10	3 00	2 90	3 05	25
2 50	2 60	2 60	2 70	2 80	2 90	3 05	3 10	2 95	2 95	2 65	3 00	26
2 40	2 45	2 50	2 50	2 55	2 75	2 95	3 10	3 25	3 20	3 10	3 30	27
2 60	2 70	2 70	2 85	2 85	2 95	3 10	3 15	3 20	3 30	3 20	3 15	28
2 40	2 55	2 60	2 60	2 60	2 70	3 00	3 15	3 30	3 30	3 20	F	29
2 70	2 60	C	2 75	2 70	2 80	2 85	3 00	3 05	3 05	3 00	3 00	30
28	30	29	29	30	29	30	30	30	29	28	24	Count
2 50	2 55	2 60	2 70	2 80	2 90	3 10	3 15	3 15	3 10	3 00	3 00	Median
2 50	2 50	2 60	2 70	2 85	2 95	3 10	3 15	3 15	3 10	3 05	3 00	Mean

Sweep 1 0 Mc to 25 0 Mc in 27 seconds

ERRATA FOR MODAIWANAL OBSERVATORY BULLETIN NO. CLXVIII

Part I.

Page No.	Table No.	Column	For	Read
9	II 12th March	9	B	0
9	II 16th March	9	G	L

Part II.

Magnetic Data.

Page No.	Table No.	Date/Line	hour/Column	read	For
13	5	9	12	37.9	37.3
13	5	9	12	37.3	37.9
13	5	10	12	34.5	37.3
13	5	11	12	36.7	34.5
13	5	12	12	37.5	36.7
13	5	14	12	38.4	37.3
13	5	17	12	33.7	38.2
13	5	20	12	38.3	38.8
13	5	21	12	37.6	38.3
19	8	20	05	39.5	34.5
24	10	27	20	35.8	36.2
31	14	mean	11	552	522
	15	14	6	611	11
33	15	23	05	645	545
37	18	2	14	212	217
37	18	3	14	213	212
38	18	4	14	188	133
39	18	5	14	219	213
39	18	6	07	210	214
39	18	13	06	225	215
39	18	14	14	220	214
39	18	28	14	229	217

Part III
Ionospheric Data

Page No	Table No.	Date	Column/ Hour	Read	For.
74	29 (Contd)	7	0730	1.4	1.
76	30	10	09	430	340
82	31 (Contd)	11	0330	280	280UF
82	"	12	0330	250UF	250
95	34 (Contd)	27	2330	335	335UF
95	"	28	2330	320UF	320
96	35	24	07	7.3	7.3S
108	38	14	08	7.6UG	7.6US
140	46	5	04	4.0	4.0US
141	46	9	13	7.8	7.5
157	50	Count	12	29	39
159	50 (Contd)	26	1630	2.8	2.1
163	51 (Contd)	Count	1230	29	2.9
169	53	Mean	22	255	265
176	55	Characteristic	-	h'Es	h'E
176	55	11	01	120	120
176	55	13	01	-	120
177	55	9	14	120	100
177	55	29	18	120	100
178	55 (Contd)	31	0930	110	100
180	56	30	01	3.25	3.35

Page No.	Table No.	Date	Column/Hours	Read	For
131	56	12	21	2.75	3.75
131	56	12	23	3.20	2.20
135	57	16	17	11.2	11.4
137	57(contd)	15	1930	10.5	10.5
137	"	26	1830	11.0	10.0
138	58	29	11	4.0	4.0
192	59	Count	07	6	2.5
196	60	8	00	2.1	-
199	60(contd)	7	2330	2.4	-
199	"	22	2130	2.3	-
199	"	22	2230	-	2.3
207	62(contd)	3	1530	2.6	2.1
207	"	2	1930	1.9	2.9
207	"	7	2330	1.7	2.7
207	"	8	2230	2.4	1.4
209	63	7	13	330	320
212	64	10	09	200	220
213	64	18	19	240	340
213	64	20	21	235	245
214	64(contd)	23	0530	2355	2455
227	67(contd)	Count	1330	29	20
244	72	29	03	-	1.8
244	72	30	03	1.8	-
251	73(contd)	17	2330	1.5	15
268	73	5	02	2.90	3.90
253	73	5	03	3.30	2.30
271	73(contd)	Median	1330	3.00	300
274	82	13	11	12.0	22.2
284	82	14	11	12.2	22.1
235	82(contd)	1	0330	10.0	1.0
235	"	27	0730	7.8	9.8
290	83(contd)	2	0630	2.5	2.8
291	"	20	1930	1.6	1.8
293	84	12	17	2.3	1.6
294	84(contd)	4	1130	2.4	1.4
299	85(contd)	2	1730	230	230
302	85(contd)	23	0430	2	2
303	"	2	2330	340	240
309	88	Count	12	29	2
309	88	"	15	24	4
309	83	30	12	100	--
314	89(contd)	13	1130	2.40	2.60