

ROYAL OBSERVATORY
BULLETINS

JOINT PUBLICATIONS OF THE
ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX
ROYAL OBSERVATORY, CAPE OF GOOD HOPE

Number 40

Magnetic Results 1958
(Hartland)

Royal Greenwich Observatory
Herstmonceux Castle
Hailsham, Sussex

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Astronomer Royal



LONDON: HER MAJESTY'S STATIONERY OFFICE

1966

MAGNETIC RESULTS 1958 (HARTLAND)

INTRODUCTION

The Magnetic Observatory

For a brief description of this observatory see the Introduction to the Magnetic Results for 1957 (*Royal Observatory Bulletin* No. 21).

Position

	Geographic	Geomagnetic
North Latitude	+ 50° 59.'7	+54.°6
East Longitude	355 31.0	79.0
Height above m.s.l.	310 feet = 95 metres	

Variometers

La Cour	Time Scale	Element	Adopted Scale Value
Normal-run *	15 mm /hr.	D	1.'01/mm
		H	4.13γ/mm
		Z	Jan. 1-Apr.29 3.98γ/mm Apr.30-Dec.31 3.84γ/mm
Quick-run	3.1 mm /min.	D	1.'1/mm
		H	4.0γ/mm
		Z	4.4γ/mm
Wide-range	15 mm /hr.	D	2.'52/mm
		H	21.0γ/mm
		Z	12.2γ/mm

* The observed scale values are given in the following table:

	D '/mm	H γ/mm	Z γ/mm
Apr. 23	1.01	4.15	3.97
May 1	1.01	4.12	3.84
May 15	-	-	3.81
May 29	-	-	3.85
May 30	-	-	3.85
June 18	1.01	4.13	-
July 24	1.00	4.13	3.86
Aug. 13	1.01	4.11	3.85
Sept.12	1.01	4.11	3.84
Oct. 16	1.01	4.12	3.92

Observing Instruments

D, Declinometer with collimating magnet and theodolite
H, Schuster-Smith Coil Magnetometer
Z, Dye Coil Magnetometer.

The potentiometers used in circuit with the coils are submitted annually to a check calibration at the National Physical Laboratory, Teddington.

PUBLISHED RESULTS

Tables

In general these are self-explanatory, but it should be noted that Tables V to VII are not adjusted for non-cyclic change. The inequalities quoted for the north and west components and the inclination are computed from those of D, H and Z. Extreme values are printed in heavy type.

Magnetograms

These are reproduced on a scale approximately one-third of the originals. Base-line values to the nearest 5γ in H and Z and to the nearest minute of arc in D, with appropriate scale values and the directions of increase, are shown on the first reproduction on each left-hand page.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
JANUARY																	
	10° + Tabular Quantities																
1 **	6.0	9.1	9.6	1.8	2.5	6.0	13.9	12.1	11.1	11.2	11.9	12.8	16.4	17.6	16.4	15.4	
2	5.9	3.9	6.9	8.8	12.2	14.9	14.1	13.9	13.4	14.7	15.9	16.7	15.9	20.2	20.6	18.9	
3 *	11.1	12.6	12.9	12.9	13.8	13.2	12.9	12.1	11.7	11.6	11.7	11.1	13.9	17.9	17.9	16.9	
4 *	13.9	13.1	13.9	14.0	13.8	12.9	12.7	12.0	11.6	10.9	12.7	13.2	14.1	16.8	17.6	16.5	
5 *	13.1	11.1	10.7	12.0	12.5	12.3	12.0	11.9	11.2	11.8	13.7	14.0	15.8	18.7	18.3	16.9	
6	13.0	14.0	14.8	14.8	13.9	13.9	13.7	13.4	13.1	12.7	13.4	14.4	16.1	19.1	18.0	17.7	
7 *	11.7	13.0	13.9	13.8	14.9	14.1	13.0	12.4	12.3	12.5	13.9	15.3	17.2	19.1	19.2	18.1	
8 *	11.9	12.8	13.0	13.9	13.9	13.9	14.0	13.7	12.6	11.9	12.6	14.9	17.2	19.9	21.0	17.6	
9	13.7	13.1	14.2	13.9	13.9	13.6	13.2	13.1	11.8	12.1	13.5	14.1	17.0	20.8	21.0	24.0	
10	8.1	5.8	6.6	11.5	13.0	12.9	13.7	13.1	11.9	11.7	12.0	13.2	17.2	19.9	17.9	16.8	
11	12.9	11.2	9.9	12.1	13.9	12.9	14.0	13.0	12.0	12.9	13.5	12.1	14.0	17.0	16.7	16.3	
12	13.1	11.8	10.2	8.0	8.3	10.9	13.1	12.2	11.9	12.2	13.3	15.1	19.0	21.2	19.9	19.1	
13	11.9	10.1	11.2	12.1	12.7	11.8	12.7	11.9	11.2	12.1	13.9	13.9	16.7	19.0	18.9	17.2	
14	13.7	13.6	14.2	13.8	13.5	13.1	12.6	11.9	11.5	13.9	14.7	17.1	18.2	19.1	19.9	17.5	
15	14.1	13.5	12.9	11.9	11.5	11.9	10.9	9.8	9.1	11.3	14.2	15.3	20.1	21.9	22.1	19.1	
16	13.1	13.2	13.1	13.1	13.1	12.0	11.5	11.1	9.7	10.7	12.5	14.9	17.6	18.8	19.9	18.4	
17 **	12.2	13.9	12.9	11.5	10.4	11.1	11.3	11.2	9.6	10.6	14.7	16.3	19.1	19.1	21.9	17.7	
18 **	2.8	5.8	7.8	4.6	4.7	7.5	8.9	9.1	13.9	16.3	12.9	14.9	20.2	22.6	22.6	20.5	
19	9.1	11.5	11.9	12.1	13.2	12.0	11.9	11.5	10.4	10.5	12.3	14.5	17.3	19.7	19.9	19.7	
20	12.9	13.1	12.9	13.9	13.2	13.5	12.5	11.7	9.8	9.8	12.5	14.5	16.9	19.6	21.8	18.8	
21 **	- 0.9	- 0.3	1.6	4.0	10.5	10.1	11.1	10.9	9.6	8.8	12.0	13.1	16.2	18.1	17.3	16.7	
22	12.3	12.2	12.9	13.9	13.2	13.1	12.9	12.1	10.6	10.7	11.9	14.1	17.9	21.0	19.6	18.6	
23 **	12.2	9.8	11.2	10.5	10.6	11.1	11.3	12.1	11.7	11.2	11.9	15.1	18.9	20.2	21.3	19.9	
24	13.6	13.7	13.6	13.4	13.2	13.6	12.9	11.9	10.6	11.1	13.0	15.9	19.0	18.7	19.1	17.6	
25	12.8	12.7	12.9	10.2	11.5	11.9	12.8	11.9	10.5	11.0	12.2	16.2	18.7	22.2	22.4	21.8	
26	13.7	13.9	12.9	10.0	7.6	7.2	10.1	11.3	10.0	10.2	12.5	14.8	16.5	17.9	18.0	18.3	
27	10.9	12.1	11.8	10.9	10.5	11.5	12.1	11.7	10.7	11.5	13.0	15.1	16.1	16.9	17.3	17.2	
28	13.6	13.7	13.6	13.3	13.2	13.1	13.2	12.3	11.9	11.3	12.5	13.9	15.5	17.4	16.9	16.1	
29	13.2	12.0	10.9	12.8	8.1	9.5	11.7	13.6	13.8	13.6	14.2	15.5	16.9	17.5	17.1	16.5	
30	13.0	12.9	12.9	13.1	13.2	13.0	12.6	12.0	11.7	12.2	12.8	13.4	15.6	16.2	16.1	14.8	
31	13.5	11.3	12.7	13.7	14.1	14.7	13.9	13.2	12.9	12.9	15.0	15.9	17.5	16.9	16.0	15.7	
Mean	11.4	11.3	11.6	11.5	11.8	12.0	12.5	12.1	11.4	11.8	13.1	14.6	17.1	19.1	19.1	17.9	
Mean *	12.3	12.5	12.9	13.3	13.8	13.3	12.9	12.4	11.9	11.7	12.9	13.7	15.6	18.5	18.8	17.2	
Mean **	6.5	7.7	8.6	6.5	7.7	9.2	11.3	11.1	11.2	11.6	12.7	14.4	18.2	19.5	19.9	18.0	
FEBRUARY																	
	10° + Tabular Quantities																
1	9.4	11.9	12.8	13.0	12.9	13.1	12.9	12.1	12.7	13.9	14.3	16.9	18.4	17.1	17.6	17.2	
2	13.5	10.7	12.5	13.9	13.9	14.7	14.9	13.1	12.7	13.8	16.7	17.5	17.5	18.3	18.0	16.9	
3 *	13.9	13.9	13.9	13.9	14.4	13.9	13.7	12.9	12.1	12.7	14.5	15.5	17.0	15.9	15.9	15.6	
4	10.9	12.2	13.2	13.8	13.9	13.5	12.9	12.2	11.5	11.3	12.9	14.0	16.9	19.6	19.0	19.1	
5	7.1	6.5	5.5	8.7	8.5	10.1	11.8	11.1	11.7	12.7	15.9	17.1	19.9	17.6	18.5	22.0	
6 **	8.1	8.1	9.7	10.9	9.7	11.1	9.1	9.1	11.6	12.6	15.3	16.7	16.1	20.6	19.7	21.0	
7	7.8	8.9	10.6	9.0	8.4	11.1	11.9	10.9	11.6	11.7	13.5	17.9	17.2	17.9	18.9	18.5	
8	9.2	11.2	7.8	11.2	11.7	7.5	8.4	10.6	12.9	16.0	14.5	16.9	17.9	21.2	18.2	16.2	
9	11.5	13.2	12.0	12.3	11.3	11.7	11.3	11.6	12.8	14.0	16.1	18.5	18.7	20.3	20.0	17.7	
10	17.8	16.0	14.8	10.6	9.0	13.6	12.2	12.6	14.3	15.6	16.2	17.9	19.8	20.4	19.8	17.3	
11 **	14.1	24.4	70.3	3.3	13.2	14.9	10.0	25.0	20.6	12.7	13.9	17.9	26.0	20.1	21.4	16.1	
12 **	6.7	8.0	11.2	10.4	8.0	6.5	8.4	7.7	8.5	11.9	15.1	15.5	17.8	17.3	16.9	14.5	
13	13.2	13.1	12.3	12.1	12.6	12.2	12.2	12.1	12.8	14.2	15.8	18.2	19.9	18.9	20.6	17.7	
14	12.0	9.8	4.8	6.6	9.4	6.8	9.1	8.9	10.3	14.6	16.6	17.8	19.1	20.6	19.9	19.9	
15 *	12.8	12.7	12.1	11.2	11.9	11.9	11.8	12.4	12.6	12.6	13.8	13.9	16.0	16.6	17.5	16.5	
16	14.5	12.7	12.8	12.3	12.2	11.9	11.9	11.9	12.0	12.6	14.0	16.2	16.8	19.0	19.1	20.8	
17 **	14.0	12.0	11.7	9.8	7.6	8.0	10.4	9.8	11.8	12.5	14.6	17.9	20.2	23.7	20.3	15.8	
18 **	13.2	9.9	8.5	10.0	11.8	7.8	10.3	12.9	12.2	13.2	16.8	19.9	21.9	18.8	19.6	16.9	
19	12.0	13.3	10.2	10.6	11.1	9.8	10.4	9.5	9.5	10.9	12.9	16.2	18.4	18.7	17.9	17.9	
20	6.2	10.5	10.1	8.4	8.7	8.6	10.6	10.9	10.9	10.2	11.9	13.7	16.1	19.7	19.9	17.9	
21	11.2	10.4	8.8	10.1	6.8	11.2	11.3	12.3	12.7	11.7	12.2	15.5	16.7	21.6	20.2	22.3	
22	10.5	12.8	12.1	9.3	8.2	11.1	11.7	12.5	12.9	12.9	12.1	14.9	17.2	15.9	16.8	18.2	
23	5.8	9.7	11.2	11.2	10.1	11.2	10.9	13.2	15.3	15.1	15.7	16.2	15.6	16.2	17.1	15.1	
24 *	11.9	12.9	11.2	12.9	13.5	11.8	11.3	10.9	10.5	11.9	14.5	16.1	18.7	17.1	17.3	16.9	
25 *	12.0	12.0	12.0	11.8	11.2	10.3	12.6	11.5	9.8	11.0	14.9	17.2	18.1	17.6	16.8	15.5	
26 *	11.7	10.2	11.4	12.2	12.2	11.9	11.9	12.7	11.4	12.2	13.8	15.6	17.0	16.8	16.1	15.1	
27	10.4	12.7	11.6	12.3	12.2	11.9	11.6	11.7	11.9	13.0	14.6	15.9	18.1	18.1	17.5	16.0	
28	13.1	13.6	13.1	11.9	10.6	10.1	10.1	10.2	11.5	12.1	16.0	18.0	18.2	20.0	19.1	16.8	
Mean	11.2	11.9	13.2	10.8	10.9	11.0	11.3	11.9	12.2	12.8	14.6	16.6	18.3	18.8	18.6	17.5	
Mean *	12.5	12.3	12.1	12.4	12.6	12.0	12.3	12.1	11.3	12.1	14.3	15.7	17.4	16.8	16.7	15.9	
Mean **	11.2	12.5	22.3	8.9	10.1	9.7	9.6	12.9	12.9	12.6	15.1	17.6	20.4	20.1	19.6	16.9	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
10 ⁰ + Tabular Quantities														
16.9	19.4	21.9	22.7	15.5	12.9	9.2	7.8	12.5	19 56	30.7†	- 1.3	3 14	32.0	1 **
16.8	15.8	15.2	14.1	13.9	13.6	12.7	12.1	13.8	14 3	21.8	2.0	1 34	19.8	2
16.9	16.9	16.7	15.9	14.6	14.5	13.8	13.2	14.0	13 59	18.7	10.4	0 32	8.3	3 *
15.9	15.8	15.5	15.0	14.1	14.0	13.9	14.0	14.1	14 38	17.7	10.7	9 2	7.0	4 *
16.6	16.8	16.2	15.3	14.6	14.3	13.9	13.6	14.1	14 9	19.6	9.8	1 0	9.8	5 *
17.8	16.4	15.7	14.8	13.8	13.1	12.8	11.8	14.7	13 15	21.8	11.2	23 40	10.6	6
17.6	17.2	16.1	15.2	14.2	13.7	13.2	12.3	14.7	14 4	20.0	10.9	0 20	9.1	7 *
18.9	18.1	16.7	15.0	14.1	13.9	13.7	13.7	15.0	14 18	22.0	11.6	9 23	10.4	8 *
24.0	23.9	19.7	14.9	16.1	15.0	11.6	9.5	15.7	17 20	24.7	7.5	23 59	17.2	9
17.9	17.9	15.9	15.9	14.6	12.9	12.7	13.6	13.6	13 20	21.0	0.8	1 57	20.2	10
17.1	17.9	20.5	20.6	14.9	13.7	13.7	12.8	14.4	19 28	23.0	8.2	2 7	14.8	11
19.1	17.2	17.3	17.1	14.7	14.5	13.7	12.9	14.4	13 36	23.0	6.3	4 17	16.7	12
17.2	16.2	16.9	17.7	10.4	10.7	12.9	13.1	13.8	14 16	19.8	4.8	20 56	15.0	13
17.8	18.6	17.8	15.4	15.2	5.1	10.0	13.6	14.7	14 6	21.2	0.0	21 54	21.2	14
18.9	18.1	16.3	15.9	13.7	12.6	12.0	12.9	14.6	12 38	24.1	8.8	8 17	15.3	15
18.5	17.7	17.3	17.1	15.9	14.8	12.6	8.5	14.4	15 3	21.8	6.5	23 19	15.3	16
18.8	16.9	17.3	16.7	14.1	4.5	7.1	10.8	13.7	14 4	24.7	0.8	21 21	23.9	17 **
23.6	24.3	22.3	17.3	15.3	13.9	13.1	10.9	14.0	14 17	27.1	1.0	0 18	26.1	18 **
18.5	19.1	17.7	14.3	12.9	12.8	12.8	12.0	14.1	13 37	21.7	8.1	0 14	13.6	19
17.1	19.1	19.9	18.1	15.1	11.4	5.6	6.6	14.2	14 33	24.3	1.5	24 0	22.8	20
15.9	17.5	18.7	18.7	16.1	14.9	13.6	13.0	12.0	18 20	20.0	† 5.5	1 7	25.5	21 **
17.9	17.5	18.1	14.9	13.6	12.9	12.9	12.9	14.5	12 45	25.3	9.8	8 59	15.5	22
18.9	17.6	13.7	13.2	13.1	12.8	13.3	13.6	14.0	14 13	23.0	7.8	1 32	15.2	23 **
15.7	16.0	15.7	15.1	13.9	13.7	13.1	13.1	14.5	13 58	20.7	10.0	8 47	10.7	24
22.0	22.0	16.4	14.1	12.5	12.1	12.8	12.8	14.8	14 43	25.8	9.7	3 19	16.1	25
17.7	18.3	17.3	14.5	12.5	11.1	13.1	8.9	13.3	15 9	19.1	3.8	5 1	15.3	26
16.9	17.5	16.6	15.9	14.7	14.0	6.1	10.9	13.4	17 43	17.9	1.8	22 37	16.1	27
16.3	16.5	15.5	15.1	14.5	14.3	14.1	13.1	14.2	13 43	18.7	10.1	9 7	8.6	28
16.5	16.7	15.9	10.4	9.2	12.6	14.1	13.9	13.6	13 48	17.9	7.0	4 21	10.9	29
16.1	16.0	15.9	14.7	13.1	13.6	13.6	13.5	13.8	13 27	17.7	11.5	8 10	6.2	30
15.7	15.6	15.6	15.9	14.1	13.9	13.8	10.7	14.4	12 45	18.0	7.9	23 41	10.1	31
17.9	17.9	17.2	15.9	14.0	12.8	12.3	11.9	14.1	-	21.7	6.2	-	15.5	Mean
17.2	17.0	16.2	15.3	14.3	14.1	13.7	13.4	14.4	-	19.6	10.7	-	8.9	Mean *
18.8	19.1	18.8	17.7	14.8	11.8	11.3	10.8	13.2	-	25.1	0.6	-	24.5	Mean **

10 ⁰ + Tabular Quantities														
16.9	16.1	15.2	14.6	14.0	13.2	13.3	13.2	14.3	12 39	19.1	8.6	0 10	10.5	1
15.7	15.9	16.2	15.1	14.5	14.1	13.9	13.9	14.9	13 11	19.0	9.8	1 24	9.2	2
15.7	15.1	15.2	14.9	14.6	13.8	13.0	12.5	14.4	12 39	18.1	11.6	23 4	6.5	3 *
18.7	18.1	19.6	12.7	13.6	15.1	14.1	11.8	14.6	13 23	22.8	3.0	19 46	19.8	4
20.2	20.8	18.9	15.7	4.8	6.5	10.2	8.7	12.9	15 2	24.8	- 0.1	21 9	24.9	5
18.2	15.1	13.8	13.1	13.1	11.5	7.1	9.6	13.0	13 30	24.0	4.6	22 32	19.4	6 **
16.5	15.2	15.5	11.9	8.4	9.1	10.0	9.6	12.6	14 47	20.9	3.6	20 57	17.3	7
16.5	13.2	15.7	16.1	13.1	9.1	12.2	10.4	13.2	13 42	23.0	5.8	20 58	17.2	8
16.9	16.7	13.7	12.3	11.9	11.2	11.6	12.7	14.2	14 5	21.7	8.3	20 12	13.4	9
14.9	12.6	13.0	14.9	14.5	14.6	10.5	11.5	14.8	19 37	24.0	6.0	17 3	18.0	10
17.8	16.0	17.1	20.4	17.5	13.9	3.6	- 0.1	17.9	2 34	106.6†	† 10.2	3 50	116.8	11 **
14.8	12.9	0.4	7.8	10.7	12.9	12.9	13.2	11.3	12 18	21.4	- 9.5	18 16	30.9	12 **
15.9	16.1	12.7	11.0	11.6	11.7	10.3	9.0	14.0	14 41	22.9	5.8	19 53	17.1	13
13.9	13.9	14.8	14.0	13.9	13.6	11.1	12.7	13.1	14 10	22.4	1.0	2 55	21.4	14
15.2	15.7	15.9	15.3	14.9	14.0	13.7	12.2	13.9	13 31	18.8	11.1	3 40	7.7	15 *
20.2	19.5	18.9	17.2	15.2	14.6	13.1	13.3	15.1	15 47	22.0	11.1	9 19	10.9	16
19.1	17.2	17.9	14.9	8.1	9.9	10.0	11.3	13.7	13 25	28.4	6.0	5 6	22.4	17 **
16.6	16.1	12.2	8.8	9.5	9.9	7.2	8.0	13.0	12 7	24.0	3.7	19 57	20.3	18 **
16.6	15.0	14.9	13.9	10.6	8.6	11.9	11.5	13.0	13 0	20.1	6.0	24 0	14.1	19
18.0	17.2	15.1	10.9	9.8	9.7	6.8	8.6	12.1	14 3	22.7	0.8	20 47	21.9	20
20.1	18.9	11.5	9.4	11.2	7.9	3.8	9.6	12.8	13 33	24.0	- 4.6	21 56	28.6	21
16.5	14.3	12.1	14.7	11.7	12.0	9.9	5.5	12.7	15 28	19.7	1.6	23 52	18.1	22
13.8	11.6	14.0	14.6	14.3	12.5	11.7	11.3	13.1	15 40	18.7	2.0	0 0	16.7	23
16.1	15.1	12.2	14.1	14.5	13.1	12.6	12.0	13.7	12 37	19.8	9.8	8 34	10.0	24 *
15.1	15.1	14.9	14.4	13.8	13.0	12.5	12.5	13.6	12 31	18.7	9.5	8 30	9.2	25 *
14.9	15.2	15.0	14.6	14.1	13.0	12.8	12.2	13.5	12 42	18.5	10.0	8 40	8.5	26 *
15.0	14.3	14.8	14.9	13.1	8.0	11.5	12.2	13.5	13 1	19.7	4.3	21 16	15.4	27
15.1	15.1	13.5	13.6	14.0	13.8	13.2	11.9	13.9	13 47	22.2	8.8	8 40	13.4	28
16.6	15.6	14.5	13.8	12.5	11.8	10.9	10.7	13.7	-	24.6	4.6	-	20.0	Mean
15.4	15.2	14.6	14.7	14.4	13.4	12.9	12.3	13.8	-	18.8	10.4	-	8.4	Mean *
17.3	15.5	12.3	13.0	11.8	11.6	8.2	8.4	13.8	-	40.9	- 1.1	-	42.0	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
MARCH $10^\circ + \text{Tabular Quantities}$																	
1 *	8.4	9.7	11.6	11.8	11.1	10.9	10.3	9.8	9.8	10.8	14.4	17.6	19.9	20.6	18.9	17.3	
2 *	10.9	12.0	12.6	12.2	11.8	11.5	13.2	11.4	11.1	13.4	16.7	17.6	17.9	17.4	16.7	15.3	
3	12.1	12.3	12.2	12.0	12.6	12.3	11.8	11.8	10.5	10.5	14.6	18.2	18.0	18.6	17.8	15.8	
4	4.3	5.4	7.4	5.0	3.4	5.4	10.5	11.0	11.5	10.8	13.2	17.8	17.9	19.0	17.8	16.4	
5 **	10.0	9.6	9.3	10.4	9.6	8.8	13.0	12.5	9.8	9.4	11.2	15.5	15.1	17.6	17.7	17.4	
6	9.5	12.8	14.7	4.7	7.7	6.7	9.9	9.5	9.2	9.0	13.0	16.0	17.6	20.0	20.4	18.0	
7	12.0	14.9	11.3	11.4	10.8	9.5	8.4	7.7	7.8	8.9	11.0	17.5	22.0	22.9	24.7	21.7	
8	9.7	8.7	3.7	6.9	7.8	9.2	9.3	8.7	7.6	8.7	11.8	14.8	15.6	20.1	19.5	17.9	
9	6.8	6.5	4.8	10.5	10.4	11.5	13.8	11.6	8.9	10.0	14.0	17.9	18.1	20.4	24.0	21.1	
10	11.2	10.2	7.7	7.7	11.8	10.0	10.1	8.7	7.7	8.7	12.6	17.0	20.3	20.5	21.5	20.2	
11	3.6	6.1	10.6	11.6	10.9	11.5	10.9	10.3	10.0	11.6	13.3	19.0	20.9	22.1	21.0	22.7	
12 **	1.7	-5.7	-7.1	-6.0	-4.2	-0.5	4.4	10.0	13.7	9.9	13.4	19.4	21.6	21.9	21.9	19.8	
13 **	11.9	6.8	7.9	11.6	11.8	16.8	19.9	15.2	16.0	11.5	16.6	16.8	18.4	20.9	19.6	19.7	
14	11.0	10.2	9.3	11.1	10.5	9.9	9.7	9.3	8.9	9.7	11.8	14.1	20.1	17.7	22.1	20.7	
15	11.8	11.0	10.8	10.1	12.6	13.8	12.8	10.0	9.9	14.0	13.4	18.0	22.6	23.4	22.6	22.1	
16 *	13.0	11.5	4.5	7.0	8.9	7.7	8.8	7.4	7.2	9.7	12.1	15.8	18.8	20.1	19.8	17.6	
17	11.6	13.0	12.8	11.5	10.4	8.7	12.1	10.1	7.3	12.4	11.8	15.4	18.1	22.5	23.2	20.6	
18	12.8	11.0	12.8	10.8	9.0	7.6	7.5	9.8	7.9	9.6	11.8	14.1	20.9	21.1	22.9	23.9	
19 **	10.9	9.9	7.3	8.5	7.0	6.8	10.8	10.3	8.3	8.8	11.8	15.4	21.8	24.9	27.1	24.1	
20 **	4.0	5.1	4.3	13.2	9.0	9.3	10.4	8.4	6.5	7.3	10.9	14.8	20.1	23.3	24.6	21.6	
21	9.7	8.9	9.7	11.1	5.7	8.4	7.8	7.7	5.0	5.5	7.7	11.5	16.2	19.8	23.0	21.7	
22	9.9	-3.1	1.8	7.7	9.4	9.7	9.6	7.9	6.7	7.0	9.0	12.6	17.9	21.8	22.6	19.7	
23	6.8	6.4	8.0	8.9	9.6	10.0	8.9	7.0	5.4	5.4	5.4	13.4	17.8	21.7	23.4	21.7	
24	7.7	9.7	11.2	9.3	7.5	6.9	7.7	6.8	5.7	7.7	10.5	16.4	18.8	22.8	24.1	22.1	
25	4.6	5.9	3.6	7.4	8.1	8.0	9.7	6.7	4.0	4.6	8.7	12.9	20.6	21.5	23.0	21.0	
26	13.7	12.7	12.2	11.6	11.9	11.7	10.7	9.4	8.5	8.8	11.4	16.1	18.8	20.9	22.3	20.7	
27	17.2	13.5	13.2	12.0	11.4	10.7	10.0	7.9	5.4	5.8	8.9	11.9	15.1	18.2	19.8	19.6	
28 *	11.5	11.7	11.1	12.6	10.5	9.7	9.1	7.7	6.5	7.7	10.1	12.7	15.8	18.5	19.6	19.0	
29 *	13.6	8.1	9.6	9.7	9.9	10.9	10.9	8.8	5.8	5.5	8.6	13.8	18.5	21.2	21.2	19.2	
30	12.1	12.0	11.7	11.7	11.4	10.8	9.9	7.7	5.7	9.4	8.7	18.0	23.9	28.1	25.9	23.9	
31	11.9	10.1	8.9	7.9	7.1	6.1	8.3	6.4	5.9	7.8	11.7	15.8	20.4	21.7	21.0	20.8	
Mean	9.8	8.9	8.7	9.4	9.2	9.4	10.3	9.3	8.2	9.0	11.6	15.7	19.0	21.0	21.6	20.1	
Mean *	11.5	10.6	9.9	10.7	10.4	10.1	10.5	9.0	8.1	9.4	12.4	15.5	18.2	19.6	19.2	17.7	
Mean **	7.0	5.1	4.3	7.5	6.6	8.2	11.7	11.3	10.9	9.4	12.8	16.4	19.4	21.7	22.2	20.5	
APRIL $10^\circ + \text{Tabular Quantities}$																	
1	9.5	7.9	5.7	5.0	5.2	6.7	5.5	6.1	5.9	7.5	11.5	17.2	21.0	24.2	24.2	20.6	
2 **	10.9	9.5	7.5	5.9	3.7	6.8	3.7	2.4	4.4	5.4	11.0	14.7	17.9	20.8	21.0	19.9	
3	12.0	11.6	12.7	7.6	5.4	4.9	8.5	7.4	5.4	6.8	11.4	15.6	19.8	21.8	20.8	18.3	
4 **	12.7	14.8	14.4	13.6	8.5	8.7	8.3	6.7	4.4	7.2	13.4	17.8	25.8	30.2	29.4	27.4	
5	4.7	4.7	3.9	-1.0	2.8	4.1	6.7	8.9	8.9	11.4	13.5	17.8	19.8	22.6	22.0	20.6	
6	9.2	6.9	7.7	8.9	8.5	9.5	8.9	5.7	4.3	5.1	9.9	14.5	19.6	22.9	24.6	23.6	
7	7.8	8.7	7.6	5.6	6.5	6.7	7.9	5.7	5.9	7.1	11.5	15.3	19.6	23.4	22.6	22.9	
8	9.7	10.3	10.6	10.7	9.7	10.7	9.6	6.1	3.1	3.4	6.9	11.7	16.9	21.8	23.0	21.8	
9	9.0	8.1	6.2	7.0	8.4	7.1	7.5	6.0	4.8	5.7	8.8	12.5	16.0	19.1	20.1	18.5	
10 *	9.8	9.8	10.4	10.0	9.5	9.5	8.0	5.7	4.8	6.5	9.4	12.5	15.8	18.8	19.1	17.9	
11 *	11.8	11.8	12.9	11.1	9.7	8.8	7.9	6.7	5.4	6.7	8.4	11.6	15.7	18.8	19.6	18.9	
12 *	12.7	12.6	12.4	11.6	10.9	10.2	9.5	8.6	7.9	8.7	11.0	14.3	17.9	19.6	18.8	17.0	
13 *	12.7	12.6	12.1	11.1	9.7	8.7	7.3	6.7	5.9	7.3	9.4	12.0	15.5	17.8	17.4	16.0	
14	11.0	11.1	11.8	11.3	11.4	10.9	10.4	7.7	5.9	6.7	10.1	13.9	18.0	21.9	21.8	20.9	
15	5.8	4.2	1.3	3.5	8.7	6.8	6.3	5.4	9.6	10.3	11.0	15.3	18.0	20.8	19.1	17.8	
16 **	6.2	5.7	5.7	4.6	6.5	4.6	4.7	7.2	5.6	5.2	12.6	17.6	21.7	22.1	22.7	20.9	
17 **	6.5	0.1	-2.2	4.8	3.6	3.0	4.1	2.6	6.4	7.7	9.8	14.3	18.5	22.2	24.4	18.8	
18 **	4.9	8.5	11.4	6.1	4.5	7.1	7.7	7.8	6.4	8.2	13.0	18.8	22.9	22.8	20.9	22.1	
19	10.9	12.0	12.3	10.5	10.0	9.7	9.0	8.1	6.3	7.9	10.5	14.6	19.4	21.8	23.5	20.9	
20	9.6	10.5	10.9	12.3	10.4	8.8	6.8	6.7	6.4	6.8	9.8	14.3	18.8	21.7	21.8	18.9	
21	11.7	11.8	11.9	13.6	11.9	8.7	6.4	4.4	5.3	8.0	9.7	14.9	18.6	19.6	20.6	19.4	
22 *	9.9	11.5	11.4	10.9	10.4	10.5	7.5	3.9	4.9	7.0	10.0	12.1	14.5	17.0	17.8	16.8	
23	11.6	11.2	10.9	10.6	10.1	9.3	7.4	5.7	5.5	6.5	8.7	13.1	17.1	19.5	20.4	20.0	
24	8.9	8.2	6.8	1.4	3.3	4.6	1.8	3.9	7.3	9.7	12.7	16.0	19.9	21.8	22.0	21.0	
25	10.4	10.1	6.1	2.8	5.3	4.7	5.8	5.7	6.7	8.7	12.9	16.7	19.9	22.8	20.9	18.8	
26	11.9	11.7	11.5	10.8	9.9	8.7	7.5	6.2	5.9	7.7	10.7	12.7	15.3	16.3	16.3	15.2	
27	12.4	11.5	10.8	10.2	9.4	7.8	6.8	5.8	6.4	6.8	8.4	10.2	13.7	16.8	17.8	17.9	
28	8.8	7.5	5.3	3.8	6.9	5.3	5.4	4.5	4.7	11.8	14.7	16.1	20.2	22.7	20.9	20.6	
29	8.9	6.2	4.6	1.8	5.9	3.3	3.4	5.3	4.6	9.7	14.4	17.9	20.8	19.6	18.2	17.0	
30	10.3	6.5	10.5	9.5	6.3	6.1	9.0	7.3	8.7	11.7	15.0	17.6	23.3	22.6	21.2	20.6	
Mean	9.7	9.3	8.8	7.9	7.8	7.4	7.0	6.0	5.9	7.6	11.0	14.8	18.7	21.1	21.1	19.7	
Mean *	11.4	11.7	11.8	10.9	10.0	9.5	8.0	6.3	5.8	7.2	9.6	12.5	15.9	18.4	18.5	17.3	
Mean **	8.2	7.7	7.4	7.0	5.4	6.0	5.7	5.3	5.4	6.7	12.0	16.6	21.4	23.6	23.7	21.8	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
10° + Tabular Quantities														MARCH
/	/	/	/	/	/	/	/	/	/	h m	/	/	h m	
16.0	15.6	15.1	14.6	13.9	12.8	12.7	10.4	13.5	13 49	21.0	4.4	0 52	16.6	1 *
14.3	13.9	13.9	14.0	13.8	13.9	14.3	12.7	13.9	11 57	18.8	10.8	7 34	8.0	2 *
15.6	17.8	12.4	14.5	11.7	7.3	9.7	7.3	13.2	11 57	20.0	1.6	23 37	18.4	3
16.8	13.7	11.6	12.4	8.0	10.3	11.3	10.6	11.3	11 43	20.6	1.2	0 20	19.4	4
15.8	15.7	14.9	12.9	11.8	8.7	5.9	6.7	12.1	6 48	20.7	2.0	23 17	18.7	5 **
14.5	14.9	13.7	8.5	11.5	2.5	9.4	11.2	11.9	14 6	22.9	- 2.6	21 39	25.5	6
18.1	15.8	16.1	14.8	11.7	11.8	11.1	11.9	13.9	14 41	25.1	5.4	7 12	19.7	7
16.5	15.0	14.9	14.5	12.0	9.9	11.2	9.7	11.8	13 29	21.7	1.6	2 7	20.1	8
16.9	15.0	13.8	11.2	9.8	11.7	12.8	12.7	13.1	14 15	25.1	1.7	1 47	23.4	9
18.6	15.6	10.8	13.9	13.0	10.8	10.3	9.6	12.9	14 57	23.9	5.7	2 31	18.2	10
20.1	17.8	16.9	14.8	13.3	11.4	4.6	5.7	13.4	15 40	23.5	- 0.4	22 51	23.9	11
18.0	12.4	9.3	11.7	11.1	10.3	7.9	9.5	9.2	13 9	23.7	-12.4	2 23	36.1	12 **
18.9	17.5	13.5	16.6	14.8	12.9	13.8	12.4	15.1	14 33	23.7	5.2	1 30	18.5	13 **
17.8	18.9	18.1	17.7	17.2	16.4	14.6	12.9	14.2	12 24	27.8	8.1	2 3	19.7	14
19.1	17.6	14.9	14.4	12.9	12.5	12.2	12.0	14.8	13 14	24.1	7.8	8 47	16.3	15
16.1	15.2	15.5	15.5	14.8	12.1	9.4	10.8	12.5	13 3	21.0	2.8	2 29	18.2	16 *
17.6	16.7	12.8	7.9	9.5	12.0	12.6	12.8	13.5	14 29	24.9	- 0.4	19 51	25.3	17
18.3	17.4	15.6	9.5	13.1	11.0	11.8	11.1	13.4	15 40	26.0	6.0	5 27	20.0	18
23.7	19.8	17.0	12.6	4.1	7.5	6.8	3.5	12.9	14 39	28.1	- 6.6	23 59	34.7	19 **
19.5	14.3	15.5	12.2	1.9	0.5	1.8	7.3	11.1	13 52	25.9	- 6.3	0 0	32.2	20 **
20.2	17.1	14.3	12.1	13.8	12.1	6.8	1.9	11.6	13 53	25.5	- 1.4	23 33	26.9	21
17.2	14.7	12.9	10.9	12.1	11.9	8.0	7.0	11.0	14 10	23.2	†-12.5	1 32	35.7	22
19.2	17.5	14.5	11.7	12.5	9.8	10.9	10.3	11.9	14 39	23.9	- 1.6	10 14	25.5	23
18.8	12.7	14.7	12.7	8.7	12.2	5.5	3.0	11.8	13 52	24.8	- 2.9	20 40	27.7	24
25.6	21.9	22.7	22.7	19.8	17.5	14.9	13.0	13.7	16 42	30.1	1.9	2 18	28.2	25
18.8	18.3	17.3	16.0	11.9	14.0	13.1	14.5	14.4	14 36	22.9	6.5	9 19	16.4	26
17.9	16.0	14.9	12.7	14.1	12.6	7.8	10.7	12.8	0 19	19.8	2.4	22 12	17.4	27
17.6	13.7	12.9	14.7	15.0	14.7	10.5	11.4	12.7	15 5	20.0	4.6	8 17	15.4	28 *
16.8	13.9	12.8	14.0	15.0	15.2	13.7	12.6	12.9	13 48	22.9	4.9	8 51	18.0	29 *
20.8	15.8	11.9	14.1	13.3	12.7	11.0	12.8	14.3	13 43	32.2†	2.7	8 33	29.5	30
16.4	15.1	13.9	13.0	13.1	13.9	14.1	13.9	12.7	13 23	23.2	4.5	5 14	18.7	31
18.1	16.0	14.5	13.5	12.2	11.4	10.3	10.1	12.8	-	23.8	1.4	-	22.3	Mean
16.2	14.5	14.0	14.6	14.5	13.7	12.1	11.6	13.1	-	20.7	5.5	-	15.2	Mean *
19.2	15.9	14.0	13.2	8.7	8.0	7.2	7.9	12.1	-	24.4	- 3.6	-	28.0	Mean **
10° + Tabular Quantities														APRIL
/	/	/	/	/	/	/	/	/	/	h m	/	/	h m	
16.8	13.7	13.7	10.4	7.7	11.0	11.7	10.5	11.6	14 35	25.9	3.3	3 35	22.6	1
16.3	13.6	14.5	13.9	13.0	11.4	9.7	7.5	11.1	15 20	23.8	- 2.2	7 6	26.0	2 **
14.6	12.6	12.2	13.3	11.5	9.7	10.8	10.7	11.9	13 21	22.2	3.9	4 33	18.3	3
22.8	20.9	15.9	14.3	8.7	10.5	10.7	3.9	14.6	14 20	31.8†	2.6	23 56	29.2	4 **
18.1	15.0	11.8	9.9	9.5	11.5	11.6	9.5	11.2	13 55	23.6	- 3.1	3 6	26.7	5
21.0	17.8	15.4	13.9	11.9	14.3	13.4	7.7	12.7	14 57	24.9	2.9	8 48	22.0	6
19.8	16.8	12.7	12.2	12.5	12.9	12.0	8.0	12.2	13 46	24.8	4.9	7 45	19.9	7
18.8	15.8	13.9	13.9	13.7	8.5	11.2	11.1	12.2	14 10	23.6	2.2	8 57	21.4	8
17.0	15.4	13.1	14.0	14.6	13.0	11.9	10.7	11.4	14 37	20.8	4.6	8 30	16.2	9
15.7	13.7	13.7	14.4	14.7	13.9	11.0	10.9	11.9	13 53	19.8	4.5	8 27	15.3	10 *
17.5	15.0	14.5	14.7	14.9	14.3	13.5	13.0	12.6	13 44	19.8	4.9	8 50	14.9	11 *
15.0	13.8	13.5	13.7	13.7	14.4	12.1	12.3	13.0	13 29	19.8	7.8	8 12	12.0	12 *
14.5	12.9	12.5	12.7	13.5	13.5	13.0	12.1	12.0	13 47	17.8	5.7	8 22	12.1	13 *
22.8	18.7	15.3	11.1	11.6	11.8	9.9	8.5	13.1	14 13	24.8	4.7	9 20	20.1	14
15.7	14.5	12.6	10.7	5.9	10.2	10.0	10.9	10.6	13 47	21.2	- 0.7	2 25	21.9	15
19.4	18.6	14.5	9.4	8.5	7.5	6.4	2.9	10.9	14 38	25.0	- 1.5	23 4	26.5	16 **
17.2	19.5	14.9	5.9	11.5	10.5	8.1	3.7	9.8	14 49	27.7	†-7.3	23 12	35.0	17 **
16.7	14.7	10.8	11.7	9.7	6.0	8.1	10.5	11.7	12 50	25.2	- 1.5	4 7	26.7	18 **
17.9	13.7	12.4	7.8	4.8	7.9	11.5	5.7	12.0	14 24	24.9	2.7	23 27	22.2	19
17.0	14.7	10.5	9.9	11.0	7.8	8.9	10.4	11.9	14 13	22.8	3.6	21 46	19.2	20
15.1	13.7	12.7	12.6	12.4	8.7	7.1	9.9	12.0	14 33	21.0	4.1	21 54	16.9	21
15.4	13.9	12.0	11.7	12.1	11.9	12.1	11.9	11.5	14 12	18.4	3.2	8 3	15.2	22 *
19.0	16.5	13.5	12.7	11.8	12.7	8.7	8.3	12.1	15 22	21.4	5.2	7 50	16.2	23
19.9	15.9	13.8	12.7	11.9	11.5	9.5	10.6	11.5	14 15	22.9	0.8	3 8	22.1	24
17.0	14.8	13.7	13.9	14.1	13.7	13.1	12.4	12.1	13 14	24.9	2.4	3 27	22.5	25
14.7	14.5	13.8	12.7	9.8	11.7	12.8	12.9	11.7	14 34	17.8	4.9	8 14	12.9	26
17.8	16.5	14.2	14.2	10.1	11.7	13.1	11.6	11.7	15 42	18.7	5.5	20 32	13.2	27
17.2	15.6	12.6	11.2	12.3	12.2	8.8	8.9	11.6	13 37	23.9	3.0	2 56	20.9	28
17.5	12.7	12.2	12.8	11.1	6.6	9.3	8.3	10.5	12 48	21.9	- 0.6	5 36	22.5	29
17.9	12.2	12.3	9.4	9.6	12.2	13.5	10.5	12.7	12 57	24.8	3.5	1 35	21.3	30
17.5	15.3	13.3	12.1	11.3	11.1	10.8	9.5	11.9	-	22.9	2.5	-	20.4	Mean
15.6	13.9	13.2	13.4	13.8	13.6	12.3	12.0	12.2	-	19.1	5.2	-	13.9	Mean *
18.5	17.5	14.1	11.0	10.3	9.2	8.6	5.7	11.6	-	26.7	- 2.0	-	28.7	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
MAY 10° + Tabular Quantities																	
1	10.2	10.9	6.7	7.2	7.7	8.4	6.5	3.8	4.4	6.6	10.8	13.7	16.7	19.2	19.6	17.6	17.6
2	11.2	11.2	9.7	5.7	4.1	4.8	3.4	3.2	1.5	4.0	6.7	10.5	13.7	16.5	17.0	16.4	16.4
3	11.8	11.9	11.2	11.2	10.3	8.2	5.4	3.4	3.2	5.4	10.5	15.4	17.9	20.6	20.4	18.9	18.9
4	9.9	8.8	10.3	8.9	7.9	5.6	2.8	2.1	4.2	6.2	8.9	13.8	17.6	19.6	20.3	19.8	19.8
5	9.2	8.3	5.8	5.4	6.6	5.4	3.1	2.4	3.4	4.7	8.2	11.3	15.1	17.8	18.4	16.9	16.9
6	10.9	7.4	7.6	7.5	7.7	7.5	4.8	2.4	2.2	4.6	9.4	13.5	17.6	18.9	19.8	16.8	16.8
7 *	10.7	10.3	10.2	9.0	8.5	7.8	5.3	4.2	3.3	5.4	8.9	13.3	16.6	19.0	19.0	18.4	18.4
8	11.5	11.5	12.0	11.7	12.1	9.9	7.5	5.7	5.5	7.3	10.5	14.3	18.4	21.6	22.7	20.6	20.6
9	10.5	10.3	10.4	10.4	9.5	7.5	6.1	7.6	8.5	9.5	11.4	13.1	16.6	18.7	18.6	17.1	17.1
10	12.1	9.8	9.8	10.9	11.3	12.9	10.7	10.4	10.2	9.2	12.6	15.7	18.7	18.7	17.7	17.9	17.9
11	10.8	10.8	10.4	9.7	9.2	7.6	5.7	6.7	8.6	11.5	13.6	14.5	16.9	17.6	17.0	16.5	16.5
12	12.1	11.5	10.5	9.7	8.7	6.7	5.8	6.5	8.7	11.5	14.6	16.2	18.3	18.8	18.6	17.4	17.4
13 **	7.1	7.5	8.5	7.9	6.5	5.7	4.3	3.7	6.1	7.3	11.5	15.5	18.7	20.8	22.3	22.6	22.6
14 **	12.5	2.9	0.8	4.8	5.7	2.4	-0.6	1.5	5.4	6.5	10.4	14.5	17.8	22.5	20.6	17.6	17.6
15 **	10.6	6.7	8.5	9.6	11.6	8.8	5.7	4.6	7.5	8.6	12.5	15.5	18.7	21.4	20.8	18.7	18.7
16	8.0	8.6	7.9	9.1	8.9	7.0	5.2	3.3	-3.4	6.7	10.2	14.0	17.5	19.5	19.8	17.8	17.8
17	11.7	13.0	13.6	12.5	8.3	3.0	1.7	-0.2	-0.2	1.1	5.9	10.5	15.6	17.8	18.7	17.6	17.6
18	7.5	11.2	11.1	8.3	7.7	6.1	4.5	3.3	4.6	4.8	9.2	12.2	16.7	19.8	20.9	19.6	19.6
19	10.9	10.7	11.2	11.4	13.3	11.7	8.5	3.8	2.6	5.8	10.5	15.8	21.3	23.6	23.0	20.6	20.6
20 *	12.5	10.9	9.8	9.6	9.0	7.1	4.8	4.8	5.0	7.6	11.3	15.7	20.9	22.6	22.3	19.4	19.4
21	9.2	8.0	5.8	7.8	9.1	6.2	3.8	2.7	4.3	6.6	11.5	16.4	21.3	23.4	21.8	19.6	19.6
22 *	11.5	11.5	11.2	10.7	10.3	7.5	4.3	2.3	2.3	4.2	8.6	13.5	19.2	22.0	21.2	19.0	19.0
23 *	11.3	9.7	9.5	9.6	8.8	7.4	5.6	5.9	7.1	9.7	13.7	17.8	21.1	21.9	20.5	18.2	18.2
24 *	11.9	11.2	10.7	10.3	8.7	7.5	5.7	4.7	4.7	5.7	9.3	13.8	18.0	20.5	19.6	17.9	17.9
25	11.8	11.5	10.9	10.7	8.8	6.1	4.4	4.9	6.0	8.1	10.9	13.9	17.6	19.3	19.5	19.9	19.9
26 **	9.9	4.8	1.0	3.4	3.2	3.4	2.6	3.3	4.2	10.5	14.5	18.0	22.3	25.4	29.8	24.5	24.5
27	11.5	9.6	8.4	6.8	6.2	5.8	5.4	4.6	5.4	9.0	12.9	16.8	18.9	18.9	19.8	16.9	16.9
28	4.4	7.5	9.5	8.2	5.5	5.1	3.9	5.4	6.2	9.1	12.6	15.1	17.7	18.7	19.1	18.7	18.7
29 **	9.9	7.5	3.3	7.8	4.7	2.2	1.1	5.6	0.8	9.5	13.2	19.3	24.5	27.0	22.8	22.0	22.0
30	13.7	12.9	11.7	7.2	3.2	2.0	0.3	-1.1	-0.3	3.9	9.3	12.5	15.5	17.8	18.4	16.6	16.6
31 **	9.5	8.4	6.1	10.0	4.4	2.7	1.4	1.3	1.4	4.3	8.5	13.3	17.6	19.3	17.7	17.3	17.3
Mean	10.5	9.6	8.8	8.8	8.0	6.5	4.5	4.0	4.5	6.9	10.7	14.5	18.2	20.3	20.2	18.7	18.7
Mean *	11.6	10.7	10.3	9.8	9.1	7.5	5.1	4.4	4.5	6.5	10.4	14.8	19.2	21.2	20.5	18.6	18.6
Mean **	9.8	6.2	3.9	6.8	4.9	3.3	1.8	3.1	3.6	7.6	11.6	16.1	20.2	23.0	22.6	20.8	20.8
JUNE 10° + Tabular Quantities																	
1 **	7.5	-3.6	5.2	5.5	5.7	4.6	4.7	4.2	5.4	8.0	10.6	14.3	18.6	20.8	21.5	19.3	19.3
2	12.2	11.4	7.5	7.8	4.4	4.1	2.2	0.3	2.0	4.5	11.2	15.6	21.4	22.1	23.4	21.9	21.9
3 *	13.0	13.5	12.5	10.3	8.1	4.4	1.4	0.2	2.4	6.3	10.4	15.0	18.7	20.6	19.9	18.1	18.1
4 *	12.0	12.6	12.5	12.9	10.9	8.0	4.5	4.1	5.3	7.2	11.1	14.6	18.0	18.7	18.6	18.3	18.3
5	11.5	11.5	11.4	11.1	10.5	8.5	4.7	2.3	1.4	3.1	9.0	13.5	18.3	20.6	21.5	20.7	20.7
6	11.7	11.5	10.7	10.6	8.5	5.6	4.6	4.1	4.5	5.6	9.5	11.7	14.5	15.2	16.3	16.6	16.6
7 **	7.2	4.9	-6.5	-1.4	4.3	2.3	5.2	4.3	6.0	8.5	16.6	16.2	18.4	19.0	16.4	13.3	13.3
8	11.4	10.6	9.8	8.8	7.0	5.7	4.6	4.5	5.5	8.1	11.5	13.6	14.5	15.1	15.6	15.5	15.5
9	9.5	5.3	4.6	3.2	1.4	1.2	2.5	4.2	6.0	8.7	12.6	16.4	19.6	20.9	21.8	21.5	21.5
10	3.7	7.3	8.3	4.4	4.1	5.2	3.9	1.2	2.3	5.2	10.9	15.1	18.0	21.5	20.5	18.6	18.6
11	10.4	8.7	5.2	4.6	5.4	6.4	3.5	2.2	2.4	2.6	7.3	13.0	17.6	20.2	20.4	19.5	19.5
12	10.6	10.8	10.3	9.8	12.8	7.3	4.1	2.4	4.6	6.8	9.3	12.4	15.9	17.6	18.4	18.8	18.8
13	11.5	11.5	9.8	8.3	6.1	6.7	4.6	3.7	4.6	7.3	10.3	13.5	15.7	17.6	16.3	16.8	16.8
14	12.3	10.1	8.4	7.5	6.5	4.4	3.5	4.1	5.2	7.2	11.5	16.8	18.8	17.7	16.8	15.9	15.9
15	7.9	9.5	9.0	7.5	6.2	0.2	1.2	-0.4	4.6	8.8	14.2	15.7	18.3	19.7	19.9	17.6	17.6
16	12.1	12.0	9.7	9.4	7.5	6.3	5.5	7.8	8.5	9.5	13.2	15.7	17.8	18.8	16.9	16.6	16.6
17 *	10.2	9.7	9.7	8.4	7.7	5.6	4.5	4.5	5.2	7.5	12.5	16.4	18.3	18.6	18.6	17.0	17.0
18 *	11.1	10.5	9.6	8.6	7.5	5.2	2.8	2.4	4.2	7.8	12.8	16.9	20.8	22.6	21.4	19.6	19.6
19	11.3	10.9	10.7	9.5	8.8	6.5	5.7	4.7	5.5	7.5	10.5	14.0	16.0	18.6	20.4	19.5	19.5
20 *	9.7	10.2	7.5	7.4	6.3	4.4	3.1	2.8	3.4	5.4	9.2	12.5	14.5	15.0	16.4	16.1	16.1
21 **	9.7	8.6	12.4	4.0	3.8	1.0	1.7	-0.6	-2.5	1.5	6.0	12.3	19.5	20.9	25.9	25.9	25.9
22	6.7	6.2	12.5	10.5	4.6	4.6	3.7	4.6	7.7	11.2	13.5	16.6	20.0	21.0	21.3	19.5	19.5
23	6.7	6.3	8.9	9.5	9.5	7.5	4.8	3.0	3.5	5.4	9.5	13.7	16.4	17.0	17.9	16.2	16.2
24	12.0	10.3	6.9	5.2	6.4	5.4	4.1	3.6	7.5	7.1	10.4	14.4	17.8	19.9	20.6	18.5	18.5
25	11.3	11.6	10.8	9.4	6.4	3.4	1.8	2.2	3.7	7.3	11.5	13.2	14.5	15.6	17.1	16.1	16.1
26	8.8	9.2	6.5	5.2	4.2	4.2	2.9	2.1	3.2	4.4	6.4	10.1	11.7	13.5	14.7	14.5	14.5
27	8.9	7.7	8.2	8.7	8.5	6.2	4.6	5.2	7.1	7.5	10.7	14.5	18.6	20.7	20.3	19.2	19.2
28 **	8.8	9.7	10.1	9.4	8.5	5.5	3.0	1.1	4.6	5.2	9.2	13.4	17.4	19.6	20.3	18.1	18.1
29 **	-0.7	3.5	-0.7	3.5	8.2	7.3	4.8	7.5	8.3	11.9	14.5	17.6	19.5	20.6	18.4	18.8	18.8
30	12.0	11.8	11.2	8.5	5.7	3.6	2.4	3.6	4.8	7.5	10.5	13.8	17.4	17.7	17.8	17.2	17.2
Mean	9.7	9.1	8.4	7.6	6.9	5.0	3.7	3.2	4.6	6.8	10.9	14.4	17.6	18.9	19.2	18.2	18.2
Mean *	11.2	11.3	10.4	9.5	8.1	5.5	3.3	2.8	4.1	6.8	11.2	15.1	18.1	19.1	19.0	17.8	17.8
Mean **	6.5	4.6	4.1	4.2	6.1	4.1	3.9	3.3	4.4	7.0	11.4	14.8	18.7	20.2	20.5	19.1	19.1

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
10° + Tabular Quantities													MAY	
										h m		h m		
15.6	12.3	8.7	9.2	10.5	11.5	13.8	11.0	10.9	14 0	20.1	1.5	7 50	18.6	1
14.5	12.5	11.5	8.3	9.1	11.3	11.9	11.3	9.6	14 7	17.6	0.6	8 29	17.0	2
17.3	15.5	13.5	12.5	11.7	11.4	12.5	12.1	12.2	13 40	20.7	2.5	8 0	18.2	3
17.3	14.7	13.5	12.7	12.2	12.2	7.8	8.6	11.1	15 3	20.6	1.5	8 0	19.1	4
16.6	15.9	15.3	12.7	12.5	11.5	11.6	10.9	10.4	14 24	18.6	2.0	7 3	16.6	5
15.2	13.1	11.6	11.5	11.0	11.8	12.4	12.0	10.7	14 22	21.0	1.6	8 32	19.4	6
16.6	14.4	12.8	13.1	12.8	10.8	9.6	10.3	11.3	13 24	19.5	2.7	8 26	16.8	7 *
17.8	14.7	12.5	11.5	12.5	10.5	6.4	8.5	12.4	14 22	23.2	4.5	8 35	18.7	8
15.5	14.2	13.4	13.1	13.1	12.0	11.7	11.4	12.1	13 28	19.4	2.6	6 57	16.8	9
16.2	15.2	10.3	8.6	12.1	12.2	11.7	11.3	12.8	13 42	19.1	6.3	19 12	12.8	10
15.1	13.7	11.2	10.5	11.7	12.7	13.2	12.8	12.0	13 3	18.6	4.7	6 30	13.9	11
16.6	16.4	13.7	12.2	9.3	10.3	8.5	7.6	12.1	13 8	19.3	3.3	23 4	16.0	12
18.4	17.4	16.6	11.9	14.1	10.6	10.2	9.9	11.9	16 20	23.7	1.7	7 30	22.0	13 **
17.6	15.5	13.3	8.7	11.5	11.7	11.0	13.7	10.3	14 25	23.7	- 3.7	6 50	27.4	14 **
15.7	13.6	10.2	9.5	11.8	13.5	10.4	8.4	11.8	14 4	22.4	2.0	7 0	20.4	15
14.7	11.7	10.3	10.3	11.1	10.6	11.1	10.9	10.7	13 42	20.6	2.5	8 20	18.1	16
16.7	14.0	10.7	9.7	10.5	11.5	10.5	10.4	10.2	13 53	19.6	- 0.4	7 30	20.0	17
16.9	15.5	12.7	12.2	12.8	11.7	10.5	10.9	11.3	14 32	22.0	0.9	7 0	21.1	18
17.2	13.9	11.2	10.2	12.2	11.7	9.8	11.2	12.6	14 11	24.0	1.3	8 3	22.7	19
15.8	13.1	11.3	10.5	10.8	11.7	12.2	11.5	12.1	14 2	23.6	4.4	7 28	19.2	20 *
16.2	13.4	11.5	11.5	11.8	12.3	11.8	11.6	11.6	13 19	23.6	1.5	7 20	22.1	21
15.8	13.7	12.6	12.7	13.0	13.3	12.5	13.2	11.9	13 39	22.6	1.8	7 50	20.8	22 *
16.2	14.2	12.7	13.3	12.7	12.2	12.5	12.5	12.7	13 15	22.2	5.4	6 28	16.8	23 *
15.1	13.3	11.7	11.5	12.4	12.4	12.7	12.0	11.7	13 30	20.6	4.4	7 21	16.2	24 *
18.8	17.4	17.2	16.3	16.0	15.6	11.8	7.0	12.7	15 26	20.5	5.4	23 26	15.1	25
23.3	18.6	16.2	15.2	15.1	14.5	10.3	12.5	12.8	14 48	32.9	- 0.6	2 19	33.5	26 **
15.5	14.2	12.6	10.5	11.2	9.5	11.5	8.3	11.3	14 38	20.8	3.0	6 55	17.8	27
15.6	13.7	12.8	12.5	12.7	12.2	13.0	12.9	11.3	14 40	19.8	1.2	0 40	18.6	28
17.2	14.7	12.0	10.2	13.7	14.5	13.8	13.7	12.1	13 35	28.8	- 3.6	6 0	32.4	29 **
14.4	12.2	12.7	12.7	13.4	10.5	9.3	8.8	9.9	14 9	18.6	- 2.5	8 29	21.1	30
16.6	21.1	18.4	7.6	5.6	9.5	6.5	3.5	9.7	21 48	47.4†	† - 9.7	21 22	57.1	31 **
16.5	14.6	12.7	11.4	12.0	11.9	11.0	10.7	11.5	-	22.4	1.6	-	20.8	Mean
15.9	13.7	12.2	12.2	12.3	12.1	11.9	11.9	11.9	-	21.7	3.7	-	18.0	Mean *
18.6	17.5	15.3	10.7	12.0	12.2	10.4	10.7	11.4	-	31.3	- 3.2	-	34.5	Mean **
10° + Tabular Quantities													JUNE	
										h m		h m		
18.4	17.5	13.7	7.7	12.1	12.2	11.5	12.5	10.7	0 24	27.8	-10.2	0 49	38.0	1 **
19.6	15.5	12.1	12.5	12.1	12.6	12.6	12.6	11.7	14 57	24.7	- 1.8	7 10	26.5	2
15.6	11.7	10.5	10.5	11.4	11.5	12.0	11.9	11.2	13 57	20.9	- 0.6	7 38	21.5	3 *
16.2	14.1	11.8	11.1	10.7	10.7	10.7	11.3	11.9	13 52	18.9	3.5	7 0	15.4	4 *
18.6	14.2	12.5	12.0	12.0	12.3	12.3	12.1	11.9	15 10	21.8	0.3	8 59	21.5	5
15.8	15.2	13.5	11.7	11.7	13.0	5.4	7.6	10.6	15 19	16.6	† - 2.4	22 14	14.2	6
13.4	13.4	12.5	9.7	12.3	12.5	10.8	12.6	9.7	12 58	21.2	† - 12.2	2 57	33.4	7 **
15.1	14.8	13.5	12.7	11.4	13.1	13.1	10.6	11.1	14 13	15.9	3.8	7 43	12.1	8
21.2	18.6	16.5	14.7	11.5	6.7	9.1	7.4	11.0	15 32	22.7	0.4	5 30	22.3	9
17.6	16.5	14.2	12.9	13.3	10.2	8.4	9.7	10.5	13 51	23.2	- 1.3	7 28	24.5	10
18.6	14.8	13.5	12.2	12.5	11.5	11.1	11.2	10.6	13 22	21.1	- 0.1	7 1	21.2	11
15.8	14.0	13.7	12.3	11.4	13.2	13.5	11.5	11.6	15 56	19.5	1.5	7 30	18.0	12
15.3	14.8	12.8	13.7	13.5	13.2	11.8	12.8	11.4	14 27	18.5	3.0	6 10	15.5	13
14.5	12.3	13.4	13.7	10.2	11.0	13.3	8.5	11.0	12 39	19.4	2.7	6 30	16.7	14
16.3	13.4	11.5	10.6	11.5	12.0	11.7	11.5	10.8	14 10	21.1	- 5.6	5 23	26.7	15
14.7	13.4	11.6	10.5	11.2	11.5	11.5	11.2	11.8	13 28	19.6	3.8	6 10	15.8	16
15.6	13.1	11.5	11.8	11.5	10.7	11.5	11.5	11.3	14 4	18.7	4.4	6 59	14.3	17 *
17.6	16.2	14.5	13.1	12.1	10.8	11.3	11.6	12.1	13 19	22.9	2.0	7 21	20.9	18 *
19.3	16.8	14.2	13.4	12.1	12.6	12.2	10.5	12.1	14 48	20.9	3.8	7 1	17.1	19
14.9	14.2	12.6	12.1	12.4	12.5	10.5	8.4	10.1	14 56	16.6	2.4	7 50	14.2	20 *
22.2	16.2	15.7	14.3	11.1	8.6	2.4	3.8	10.2	15 39	28.8†	- 5.6	8 21	34.4	21 **
17.8	15.7	13.3	12.3	12.2	13.5	7.6	5.8	11.8	14 0	23.0	1.1	6 15	21.9	22
14.5	12.7	11.5	11.5	11.9	12.7	12.7	11.8	10.6	14 42	18.4	1.7	7 51	16.7	23
16.6	14.4	14.1	13.5	12.7	10.5	10.5	9.6	11.3	14 10	21.4	2.5	7 12	18.9	24
15.7	15.1	13.6	11.5	12.4	13.5	13.8	10.4	10.9	14 45	17.6	1.0	6 46	16.6	25
13.7	12.9	12.2	11.8	12.5	12.7	12.7	10.8	9.2	14 42	15.5	1.5	7 24	14.0	26
16.8	14.8	13.7	13.5	13.3	12.9	10.4	8.7	11.7	13 41	21.1	3.5	6 46	17.6	27
17.0	17.6	19.7	9.3	12.3	7.4	9.2	4.2	10.9	18 29	22.9	- 6.3	20 42	29.2	28 **
17.9	14.8	13.5	13.8	12.5	14.5	14.5	13.5	11.6	13 28	21.8	- 6.6	2 43	28.4	29 **
15.6	14.7	11.7	12.0	12.2	12.8	12.1	10.5	11.1	14 23	18.6	1.6	6 19	17.0	30
16.7	14.8	13.3	12.1	12.0	11.8	11.0	10.2	11.1	-	20.7	- 0.1	-	20.8	Mean
16.0	13.9	12.2	11.7	11.6	11.2	11.2	10.9	11.3	-	19.6	2.3	-	17.3	Mean *
17.8	15.9	15.0	11.0	12.1	11.0	9.7	9.3	10.6	-	24.5	- 8.2	-	32.7	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
JULY																	
10° + Tabular Quantities																	
1	11.1	14.5	7.8	7.4	7.4	7.5	6.8	5.4	6.0	5.4	7.2	11.4	13.2	13.8	14.5	14.4	
2 *	11.5	11.1	10.7	11.1	10.2	7.4	5.2	3.6	4.6	7.8	11.2	14.8	17.6	18.4	17.9	17.2	
3	10.2	9.6	7.6	7.2	5.7	4.4	3.5	3.2	3.3	3.5	5.5	10.7	13.5	14.9	15.3	15.5	
4	12.2	11.3	11.0	11.5	10.5	9.3	5.3	4.1	5.2	9.5	11.2	13.3	15.5	18.6	18.0	16.6	
5	10.5	11.5	11.9	9.0	8.4	7.5	7.5	7.5	7.6	7.6	8.5	9.7	12.2	15.5	14.9	15.5	
6 *	11.8	12.1	10.5	7.5	5.9	3.5	1.6	1.6	1.5	3.3	6.3	10.5	14.5	17.4	17.3	15.7	
7	10.7	11.1	10.5	10.2	9.5	6.8	4.3	4.2	3.4	5.4	9.2	13.4	15.8	18.6	19.5	19.9	
8 **	10.4	10.4	9.8	8.9	6.8	6.1	4.2	4.1	3.7	0.4	1.5	3.7	17.9	23.2	37.9	44.0	
9 **	5.2	2.3	3.8	7.4	2.8	4.4	3.4	0.4	3.7	5.1	6.5	9.6	12.2	12.5	15.1	15.3	
10	6.5	11.2	8.4	5.6	6.2	2.4	1.1	0.2	1.3	3.2	6.7	12.0	17.8	19.2	17.0	16.6	
11	7.2	4.7	9.5	6.2	5.2	4.2	2.4	1.8	3.9	5.4	8.2	11.0	15.9	19.7	19.6	17.6	
12	10.5	8.2	7.3	6.5	7.7	5.7	3.3	4.1	8.5	11.7	14.7	18.3	19.8	20.2	19.2	15.9	
13	10.7	10.7	12.7	12.5	8.5	9.7	7.8	4.0	1.4	2.6	6.1	10.5	14.6	15.3	14.3	12.5	
14	11.5	8.4	8.2	9.7	4.5	2.4	3.2	3.4	5.8	9.7	13.3	15.3	17.6	17.6	17.9	16.8	
15 *	10.5	9.5	8.7	8.5	9.1	6.0	3.5	3.3	3.6	5.5	8.2	10.8	13.5	13.5	13.6	13.4	
16 *	11.1	8.2	8.7	7.7	8.7	5.1	2.4	3.6	5.4	8.2	10.8	13.8	16.8	19.6	20.3	19.5	
17	11.4	7.5	9.5	8.7	12.5	13.5	10.2	5.2	1.8	4.1	6.6	11.7	15.5	16.1	15.1	14.4	
18 **	9.1	8.1	5.0	3.7	2.9	2.2	0.3	0.8	7.2	8.4	13.2	16.7	19.7	24.0	24.3	22.6	
19	8.5	8.4	8.5	8.7	9.7	5.2	2.4	6.4	6.6	6.9	7.4	10.8	14.6	17.4	18.6	16.7	
20	7.4	5.9	3.8	6.6	6.5	8.6	4.6	4.7	5.6	4.2	6.8	10.5	16.6	20.8	21.4	19.8	
21 **	9.7	9.8	8.1	8.6	5.6	6.5	5.6	3.3	3.6	5.5	8.6	11.5	15.1	17.7	18.6	17.3	
22	10.3	14.5	11.5	11.5	9.7	5.4	2.0	1.6	3.1	6.8	9.7	13.7	16.4	15.8	16.5	13.5	
23 *	9.7	8.8	8.5	8.5	7.7	5.4	4.0	4.2	3.7	5.6	9.2	11.7	14.5	17.2	16.6	16.6	
24	9.2	8.0	5.1	5.3	5.6	5.4	3.7	2.3	2.1	3.0	5.6	8.4	14.5	15.5	17.6	17.8	
25	9.2	8.7	8.6	8.3	7.3	6.9	4.5	5.4	6.9	7.5	10.6	12.5	15.8	19.3	20.3	19.4	
26	6.7	7.9	11.2	6.5	6.0	4.2	2.2	2.1	2.7	5.7	10.4	14.8	17.9	18.6	19.4	18.5	
27 **	11.5	11.7	10.9	7.6	4.0	2.6	1.0	0.4	5.2	7.7	10.2	13.2	19.0	19.6	20.6	18.5	
28	7.3	7.1	3.7	5.1	2.8	2.1	0.3	1.4	0.4	3.6	8.5	12.6	16.5	19.4	18.4	16.4	
29	10.3	9.5	9.3	7.6	6.2	4.8	3.7	3.4	3.4	5.0	9.2	12.5	15.4	17.6	16.8	15.2	
30	10.8	10.5	11.5	11.3	9.1	6.3	5.4	4.4	1.5	3.4	7.5	11.2	15.1	18.6	18.8	17.6	
31	11.4	11.7	11.2	10.5	9.1	7.8	6.6	5.2	5.4	7.4	9.9	12.5	16.2	19.1	18.6	17.7	
Mean	9.8	9.4	8.6	7.8	7.2	5.8	3.9	3.3	4.1	5.8	8.7	12.0	15.8	17.9	18.5	17.7	
Mean *	10.9	9.9	9.4	8.7	8.3	5.5	3.3	3.3	3.8	6.1	9.1	12.3	15.4	17.2	17.1	16.5	
Mean **	9.2	8.5	6.0	4.3	4.4	4.4	2.9	1.6	4.7	5.4	8.0	10.9	16.8	19.4	23.3	23.5	
AUGUST																	
10° + Tabular Quantities																	
1	10.2	8.6	8.5	7.5	6.7	4.4	2.2	1.4	2.6	4.0	8.5	12.5	14.4	17.6	18.6	17.9	
2	10.3	9.8	9.7	9.6	10.2	9.5	6.2	5.5	5.6	6.7	8.3	13.8	16.8	18.3	17.4	16.7	
3	12.2	15.7	12.8	11.2	11.3	8.2	4.7	2.1	0.6	3.2	7.6	11.5	13.5	16.7	17.7	16.6	
4 *	10.8	10.7	11.5	12.2	9.5	7.6	5.4	4.3	3.4	4.4	7.3	11.5	15.9	17.7	18.2	17.4	
5 *	10.7	10.6	10.6	10.1	9.4	6.6	4.4	4.6	5.4	6.5	9.3	12.5	15.3	16.6	15.9	14.4	
6 *	9.8	10.2	8.9	8.7	7.9	5.8	4.8	3.2	2.8	4.1	6.3	10.3	15.2	17.6	17.8	17.4	
7	10.4	9.5	8.6	7.7	7.5	6.4	4.1	2.7	3.9	6.5	11.4	15.6	19.6	18.5	19.2	19.0	
8 *	9.4	8.3	7.6	8.5	7.3	5.4	4.0	3.3	3.6	5.0	9.1	13.5	18.4	22.7	22.7	19.6	
9	9.9	7.6	7.7	8.3	8.5	5.9	3.5	2.3	2.4	4.3	7.2	11.5	16.6	20.0	20.8	19.9	
10	10.3	9.0	7.5	6.5	6.4	3.4	1.3	1.6	2.4	5.4	10.8	12.7	15.0	18.4	19.5	17.6	
11	8.3	9.3	10.1	10.3	7.6	6.5	3.5	4.6	7.3	9.1	12.5	14.6	16.6	17.5	17.3	15.6	
12	9.4	9.6	9.6	9.5	8.4	8.4	7.0	4.0	2.5	4.6	9.5	13.1	16.5	17.4	16.2	14.5	
13	8.5	7.2	6.5	6.3	4.4	3.2	8.0	7.7	5.6	8.2	12.3	14.7	16.6	16.5	15.6	14.2	
14	10.2	9.6	8.7	9.5	7.5	5.4	3.2	2.4	3.2	5.5	9.8	14.3	18.4	19.9	19.4	16.4	
15	7.5	8.6	7.9	6.3	6.7	6.0	3.4	2.2	2.2	5.4	10.3	14.5	17.4	19.1	18.5	15.5	
16	8.3	4.2	3.1	7.2	6.4	1.6	0.7	0.5	2.7	6.2	11.5	15.6	18.5	20.7	20.4	19.3	
17 **	9.3	9.4	9.3	8.5	7.5	6.1	3.4	0.1	0.7	6.5	12.5	14.7	17.0	18.9	19.3	20.0	
18 **	8.5	9.5	7.5	5.4	6.7	6.7	2.4	0.5	3.1	6.5	10.5	14.7	16.9	18.4	17.4	15.8	
19	10.7	10.6	11.5	11.1	6.8	5.2	3.4	1.6	2.0	5.1	10.4	15.4	19.6	21.0	19.8	16.6	
20 *	10.7	10.0	8.7	8.2	7.7	6.6	4.1	1.7	3.0	5.3	9.1	13.7	17.6	19.4	17.9	16.2	
21	9.6	9.5	9.5	9.3	8.6	6.2	4.2	3.1	3.2	4.6	8.3	13.2	17.9	19.5	17.9	16.6	
22 **	8.7	7.9	7.6	0.9	2.7	7.7	3.7	1.8	0.4	2.4	6.8	11.8	15.8	17.1	17.7	18.8	
23	8.3	8.0	7.7	7.3	5.4	3.1	5.6	4.6	6.2	7.9	10.5	13.4	15.5	16.2	16.1	15.5	
24 **	6.7	10.3	11.2	5.7	0.9	1.0	2.0	12.4	3.2	6.4	10.4	11.8	14.6	19.7	18.3	16.5	
25	9.7	10.0	9.5	9.8	13.2	8.5	7.2	6.2	4.2	5.2	8.7	12.5	15.8	18.3	16.8	15.2	
26	9.7	10.2	9.5	7.8	9.5	8.8	7.3	5.4	3.8	5.0	8.5	14.7	17.9	18.2	16.8	15.5	
27 **	9.5	10.9	11.5	9.9	14.4	12.3	4.7	5.2	12.8	9.8	17.2	19.7	21.8	22.6	21.6	16.2	
28	8.5	8.8	8.7	8.8	8.4	7.2	3.7	0.7	0.3	2.6	8.3	14.5	18.6	19.8	17.6	14.4	
29	10.3	10.5	10.7	10.5	8.3	6.7	5.2	4.4	4.9	9.6	13.2	18.6	21.6	21.4	18.4	14.8	
30	10.5	8.9	9.5	10.4	9.5	6.5	5.1	5.1	4.6	6.4	8.9	14.3	19.2	20.6	16.4	14.3	
31	9.5	9.8	10.7	10.7	8.4	7.0	5.4	4.1	5.2	7.7	11.0	14.7	18.8	20.6	18.5	15.5	
Mean	9.6	9.4	9.1	8.1	7.8	5.7	4.1	3.5	3.7	5.8	9.9	13.9	17.2	18.9	18.2	16.6	
Mean *	10.3	10.0	9.5	9.5	8.4	6.4	4.5	3.4	3.6	5.1	8.2	12.3	16.5	18.8	18.5	17.0	
Mean **	8.5	9.6	9.4	3.8	6.1	3.3	1.8	4.0	4.0	6.3	11.5	14.5	17.2	19.3	18.9	17.5	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date		
10° + Tabular Quantities														JULY	
										h m					
12.8	11.8	11.8	11.7	11.2	10.5	11.7	11.8	10.3	1	28	17.6	4.0	7 33	13.6	1
15.8	14.5	13.3	12.5	10.7	10.5	10.6	10.8	11.6	13	10	18.6	2.9	7 50	15.7	2 *
15.4	14.6	14.5	11.7	10.6	12.2	12.5	12.7	9.9	16	43	15.8	2.4	5 51	13.4	3
18.1	13.5	12.4	12.5	9.5	10.4	9.6	8.9	11.6	14	9	19.8	1.4	7 28	18.4	4
15.5	14.5	13.2	12.4	13.5	12.9	9.3	10.6	11.1	13	29	16.6	5.5	22 47	11.1	5
14.5	13.5	13.4	12.4	12.2	11.7	11.5	10.8	10.0	13	34	17.6	0.7	6 10	16.9	6 *
18.6	18.4	17.8	16.1	14.9	14.2	9.3	10.3	12.2	15	38	20.8	2.5	8 50	18.3	7
35.4	28.7	34.6	31.8	21.8	39.5	13.6	3.2	16.7	21	10	91.3	†-17.6	9 16	108.9	8 **
11.6	8.5	8.1	7.9	9.7	10.8	11.5	6.8	6.8	14	59	16.9	-8.9	3 49	25.8	9 **
14.7	12.6	11.3	9.3	9.3	10.5	9.5	9.7	9.3	13	2	19.9	-0.7	7 38	20.6	10
15.7	13.5	12.2	12.7	9.9	9.3	9.6	10.5	9.8	13	50	20.6	-0.6	7 8	21.2	11
14.2	14.0	10.9	10.5	12.1	12.2	11.2	11.3	11.6	13	40	20.5	1.5	6 36	19.0	12
9.6	10.5	10.2	10.7	11.7	12.5	12.2	11.2	10.1	3	1	17.0	-1.6	8 21	18.6	13
14.4	12.7	12.5	12.7	12.7	13.0	11.7	11.5	11.1	14	20	18.4	1.3	5 56	17.1	14
12.8	11.7	11.5	11.9	12.4	11.7	11.3	11.7	9.8	12	51	14.5	2.8	8 4	11.7	15 *
15.3	14.1	13.2	11.5	11.6	11.9	11.2	7.6	11.1	15	22	20.6	1.7	6 30	18.9	16 *
12.7	11.2	10.0	9.5	9.3	9.8	9.8	10.2	10.3	5	10	17.0	0.8	8 41	16.2	17
22.6	17.6	15.5	11.2	10.3	8.6	10.6	9.4	11.4	14	2	26.2	-3.7	7 18	29.9	18 **
15.7	14.5	12.2	10.7	4.4	6.6	5.2	6.4	9.7	14	23	19.6	1.1	6 42	18.5	19
16.2	14.2	12.8	12.5	12.7	11.1	9.7	8.8	10.5	14	20	22.7	1.5	6 58	21.2	20
18.4	21.8	19.2	11.2	9.1	12.2	8.3	10.8	11.1	16	56	23.9	-0.2	22 30	24.1	21 **
12.5	11.2	10.9	11.2	11.4	11.5	10.9	10.2	10.5	1	37	19.1	-1.1	7 31	20.2	22
15.5	13.8	13.0	11.5	11.2	10.9	10.5	10.4	10.4	13	50	18.2	2.5	6 17	15.7	23 *
16.8	16.6	12.5	13.2	12.5	9.5	11.6	9.8	9.7	14	51	19.7	1.5	8 0	18.2	24
16.6	14.5	11.1	10.2	11.9	12.8	11.7	6.5	11.1	14	41	21.3	1.5	7 9	19.8	25
15.9	12.6	11.2	10.8	9.8	11.6	12.5	12.5	10.5	14	16	19.6	0.9	7 33	18.7	26
16.8	15.6	14.3	13.7	14.4	13.1	12.5	11.2	11.4	14	22	21.0	-2.0	7 1	23.0	27 **
13.8	12.4	11.7	11.7	12.4	12.2	11.4	10.7	9.1	13	33	19.6	-2.5	6 54	22.1	28
13.6	12.1	12.2	10.9	11.4	11.2	10.6	11.6	10.1	13	40	18.0	2.6	8 18	15.4	29
14.4	10.1	8.6	7.6	8.7	7.5	10.4	11.6	10.1	14	28	19.4	0.7	9 1	18.7	30
16.1	10.2	8.8	10.2	11.0	11.3	11.0	8.8	11.2	15	34	19.6	4.5	8 14	15.1	31
15.9	14.0	13.1	12.1	11.4	12.1	10.7	9.9	10.6	-	-	21.7	0.2	-	21.5	Mean
14.8	13.5	12.9	12.0	11.6	11.3	11.0	10.3	10.6	-	-	17.9	2.1	-	15.8	Mean *
21.0	18.4	18.3	15.2	13.1	16.8	11.3	8.3	11.5	-	-	35.9	-6.5	-	42.3	Mean **
10° + Tabular Quantities														AUGUST	
										h m					
15.5	13.3	11.6	9.7	10.5	9.4	8.8	10.5	9.8	14	8	19.1	0.4	6 53	18.7	1
14.6	10.5	9.0	8.2	9.5	10.8	10.8	11.5	10.8	13	25	18.7	3.5	8 19	15.2	2
14.0	10.7	9.5	9.5	9.6	9.8	10.4	10.5	10.4	14	14	18.6	-0.5	8 4	19.1	3
15.6	13.6	12.3	11.2	11.8	11.6	11.5	11.2	11.1	14	22	18.5	2.9	8 31	15.6	4 *
12.6	11.3	11.5	11.5	11.3	10.7	10.8	10.7	10.6	14	3	17.1	3.8	6 35	13.3	5 *
14.6	13.1	11.9	11.8	11.6	10.7	9.6	10.5	10.2	14	22	18.1	2.4	8 10	15.7	6 *
16.8	14.3	11.5	10.6	10.3	10.7	10.7	10.3	11.1	12	30	21.0	1.7	7 46	19.3	7
16.3	13.6	12.5	12.6	12.2	11.6	10.8	11.5	11.2	14	0	23.7	2.6	7 26	21.1	8 *
17.4	14.5	13.2	12.3	12.1	10.5	9.2	10.5	10.6	13	51	21.7	1.5	8 18	20.2	9
15.5	12.8	10.3	10.5	10.4	11.7	9.7	6.5	9.8	14	30	20.8	0.4	6 19	20.4	10
13.5	10.5	9.8	12.3	12.4	11.0	9.1	9.5	10.8	13	32	17.8	2.0	6 41	15.8	11
12.5	11.3	11.0	12.2	11.7	11.3	11.1	10.6	10.5	13	10	17.7	1.7	8 23	16.0	12
11.7	11.5	11.1	10.7	11.2	10.8	10.8	10.6	10.2	12	20	16.9	2.3	5 27	14.6	13
13.7	10.8	7.5	8.6	10.3	10.3	10.3	6.7	10.1	13	42	20.2	1.6	6 58	18.6	14
13.5	11.9	10.7	10.8	11.5	11.0	10.7	10.1	10.1	13	49	19.7	0.5	7 30	19.2	15
17.6	12.7	10.8	9.7	10.5	10.4	10.1	9.5	9.9	14	9	21.8	-1.1	7 30	22.9	16
16.0	9.4	5.4	2.7	5.2	6.0	4.4	7.5	9.2	14	50	27.5	-7.5	19 57	35.0	17 **
13.8	11.7	10.6	9.9	9.6	10.7	10.3	9.3	9.9	13	30	18.7	-3.7	6 59	22.4	18 **
13.8	10.2	8.7	9.6	10.9	11.2	11.5	11.0	10.7	13	28	21.8	-0.4	7 40	22.2	19
13.8	12.5	11.4	11.7	11.5	10.9	10.6	9.7	10.5	13	51	19.6	0.4	7 39	19.2	20 *
14.4	12.5	12.5	11.8	11.9	11.8	12.2	10.4	10.8	13	8	19.7	2.5	7 52	17.2	21
14.4	12.4	10.9	12.7	12.2	11.4	10.1	9.4	8.4	15	12	19.7	-10.6	6 22	30.3	22 **
14.4	13.1	11.8	10.5	8.4	8.7	9.7	8.7	9.9	13	53	16.7	0.3	7 11	16.4	23
13.7	12.4	8.5	8.9	9.7	11.7	11.7	10.1	9.3	13	29	21.8	†-12.7	3 44	34.5	24 **
11.7	9.6	9.1	8.5	9.4	10.1	10.1	10.0	10.4	13	1	20.7	2.5	8 43	18.2	25
13.3	10.5	8.3	7.5	9.3	10.5	9.9	10.5	10.4	13	0	18.7	3.3	8 20	15.4	26
14.5	11.4	6.5	5.7	2.2	7.7	6.9	7.5	11.8	12	40	23.9	-6.6	20 8	30.5	27 **
11.4	7.5	4.5	4.3	7.3	8.4	9.5	10.4	8.9	12	59	20.6	-2.1	8 13	22.7	28
10.9	7.5	6.1	7.2	8.6	9.7	10.5	9.6	10.8	13	6	22.7	2.6	7 58	20.1	29
10.5	9.0	9.1	10.2	9.2	9.8	10.2	9.3	10.3	13	21	20.8	3.7	8 2	17.1	30
11.2	8.8	8.5	9.5	10.3	10.2	10.1	9.7	10.7	13	39	20.9	3.3	7 45	17.6	31
14.0	11.4	9.9	9.8	10.1	10.4	10.1	9.8	10.3	-	-	20.2	0.0	-	20.1	Mean
14.6	12.8	11.9	11.8	11.7	11.1	10.7	10.7	10.7	-	-	19.4	2.4	-	17.0	Mean *
14.5	11.5	8.4	8.0	7.8	9.5	8.7	8.8	9.7	-	-	22.3	-8.2	-	30.5	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
SEPTEMBER																	
10° + Tabular Quantities																	
1	9.6	9.5	9.2	8.8	8.1	6.5	5.6	4.6	5.0	7.2	11.5	16.8	20.5	21.5	18.6	16.1	
2	10.4	10.2	10.5	9.1	8.0	6.1	4.1	2.4	3.0	5.6	11.2	15.7	18.6	19.4	18.5	16.4	
3 **	8.9	7.3	6.1	7.7	7.7	6.2	5.2	3.4	1.8	3.2	9.7	16.2	21.5	24.7	24.9	28.0	
4 **	0.4	0.6	0.2	1.1	5.2	3.6	2.6	2.0	3.2	5.1	9.6	12.7	16.5	19.4	25.4	27.4	
5 **	-6.7	-9.7	-10.4	-4.9	5.3	2.3	0.5	1.2	1.2	2.2	7.5	11.4	13.5	12.7	11.5	9.6	
6	7.8	7.9	8.2	8.7	7.7	7.3	3.7	1.4	1.9	3.8	6.8	10.0	13.3	14.5	14.6	12.7	
7	9.5	9.4	8.9	7.8	7.6	5.4	4.6	4.1	3.6	5.4	10.3	14.5	16.3	18.0	19.9	15.5	
8	6.6	7.9	3.4	4.1	4.4	5.0	3.4	2.5	2.7	5.6	10.0	14.3	16.6	17.6	16.2	15.0	
9	6.0	2.6	2.4	5.4	4.9	5.5	5.0	3.7	2.7	4.6	10.0	15.6	18.4	22.8	19.8	14.2	
10	7.8	10.7	9.3	6.7	6.3	5.4	4.4	3.6	4.3	6.3	10.7	15.6	19.5	20.8	16.8	14.3	
11	8.2	7.9	7.7	7.9	6.0	5.2	2.7	1.8	1.5	4.2	9.0	14.7	19.6	19.7	18.5	14.9	
12	8.6	8.3	8.2	6.2	6.2	5.1	4.2	2.0	2.5	5.7	10.4	14.5	17.6	18.6	17.2	14.5	
13 *	9.2	9.2	8.7	8.5	7.8	7.1	5.8	4.2	3.4	4.9	9.5	13.6	17.6	20.3	19.1	15.1	
14 *	10.2	10.2	9.8	9.3	8.5	7.2	5.4	3.5	2.5	3.1	8.3	13.7	18.6	19.5	17.6	14.7	
15	9.9	9.7	9.6	9.3	8.4	7.3	5.3	3.2	2.3	4.2	8.4	14.9	21.5	23.8	21.7	17.8	
16 **	5.2	5.6	5.2	5.6	3.1	0.6	1.2	2.2	1.2	3.4	8.7	14.5	18.8	24.8	21.4	17.8	
17	4.8	6.4	6.7	6.6	6.1	7.2	6.7	5.5	4.8	8.0	12.4	16.6	20.5	18.6	18.2	14.7	
18 *	9.1	8.7	8.5	7.9	7.3	6.2	4.4	2.8	2.4	5.4	10.3	14.5	17.2	17.8	16.6	14.7	
19	9.5	8.9	8.5	8.4	7.7	7.3	6.5	5.2	3.5	4.7	8.1	12.5	16.1	16.6	16.2	14.7	
20	9.5	8.6	8.5	8.1	7.5	6.7	6.7	5.1	4.5	5.4	8.5	12.3	15.7	17.1	16.8	15.3	
21 *	9.3	8.7	8.2	8.3	8.3	7.5	6.6	5.2	3.6	4.2	6.3	9.5	13.2	15.5	15.3	13.7	
22 *	8.9	8.3	8.5	8.3	8.3	7.5	6.6	5.2	3.3	3.6	6.5	10.4	14.7	16.8	16.6	14.9	
23	9.8	8.8	8.2	6.4	6.1	5.6	5.5	5.7	5.1	5.6	7.5	11.1	15.3	16.3	16.3	15.5	
24	9.9	8.7	7.5	7.0	6.7	6.3	5.4	4.1	3.3	4.8	8.5	11.7	15.3	16.2	15.7	15.1	
25 **	7.8	4.7	5.8	2.5	3.2	2.1	4.6	11.3	13.5	8.2	16.2	18.6	18.7	19.5	18.6	16.7	
26	1.0	-0.7	2.6	1.5	4.6	7.2	7.2	7.7	9.2	8.0	10.4	12.4	15.5	15.8	15.7	14.4	
27	6.5	7.6	7.5	7.6	7.8	7.6	6.3	5.4	3.8	4.5	7.6	11.6	14.5	15.5	15.8	12.5	
28	5.1	8.7	8.9	7.4	9.2	10.4	9.1	6.1	5.4	6.4	9.8	15.5	17.0	17.3	16.4	14.5	
29	8.8	9.3	9.2	9.1	8.4	8.2	8.3	5.6	2.6	2.4	5.4	11.7	16.2	17.7	17.5	15.6	
30	8.9	9.1	8.6	8.7	8.6	8.3	7.6	6.0	3.9	4.2	7.7	14.5	19.4	21.8	20.6	19.8	
Mean	7.4	7.1	6.8	6.6	6.8	6.1	5.2	4.2	3.7	5.0	9.2	13.7	17.3	18.7	17.9	15.9	
Mean *	9.3	9.0	8.7	8.5	8.0	7.1	5.8	4.2	3.0	4.2	8.2	12.3	16.3	18.0	17.0	14.6	
Mean **	3.1	1.7	1.4	2.4	4.9	3.0	2.8	4.0	4.2	4.4	10.3	14.7	17.8	20.2	20.4	19.9	
OCTOBER																	
10° + Tabular Quantities																	
1	7.9	8.6	8.5	8.7	8.3	8.3	9.3	10.3	5.3	4.4	5.2	8.9	12.5	15.2	15.6	14.7	
2	-0.8	-0.2	3.4	5.7	4.7	4.4	6.7	6.0	3.5	2.4	4.4	8.5	12.5	14.5	15.6	15.2	
3	6.4	5.7	5.8	3.4	2.0	7.5	5.6	5.2	2.9	3.2	6.6	13.7	18.9	21.6	20.6	19.3	
4 *	8.3	8.5	9.1	8.2	8.2	7.8	7.0	6.4	4.5	5.1	7.3	10.9	15.2	16.8	16.2	14.5	
5	1.4	2.1	6.5	7.3	7.2	6.9	6.5	5.6	4.4	4.6	7.5	11.8	14.7	17.9	17.9	15.5	
6	8.3	8.5	7.5	7.5	7.5	7.5	6.4	5.2	3.4	4.6	6.7	10.2	13.9	17.9	16.3	14.9	
7	8.7	6.7	5.6	5.6	5.2	5.6	8.2	7.5	5.7	5.1	6.7	11.0	13.7	15.4	15.5	15.5	
8	2.7	0.5	-0.7	3.5	3.3	6.5	6.2	4.8	4.3	4.6	6.6	10.5	14.2	14.9	15.1	13.5	
9 *	8.3	7.4	7.3	7.2	6.8	6.7	6.9	5.8	4.4	4.3	6.7	9.5	12.4	14.7	14.7	13.7	
10 *	8.7	8.5	7.7	7.2	7.2	7.2	6.7	5.4	3.2	2.7	4.7	8.3	11.7	13.8	14.5	14.3	
11 *	7.3	7.5	7.9	8.2	7.5	7.3	6.5	4.8	2.5	2.3	5.5	9.5	13.3	15.5	15.7	15.0	
12 *	8.3	8.5	8.7	8.5	8.3	7.7	6.8	5.6	3.5	3.2	5.6	10.7	15.6	17.8	17.5	15.8	
13	9.5	9.1	9.3	9.2	8.7	8.3	8.3	6.1	3.6	4.0	6.4	11.9	18.6	20.1	19.6	16.6	
14	8.7	8.2	8.4	9.2	8.5	9.2	7.9	6.2	3.8	3.4	6.0	10.7	15.2	17.8	18.2	16.7	
15	6.5	7.7	8.8	8.5	7.7	8.5	7.5	5.7	4.4	4.2	7.3	11.5	15.2	15.5	16.4	15.5	
16	8.7	8.4	7.8	7.4	6.5	5.2	7.4	5.6	3.5	3.4	5.6	10.3	14.7	17.4	16.3	15.4	
17	8.3	7.7	8.2	6.7	7.7	6.2	5.2	5.0	2.4	2.4	5.6	11.5	14.8	17.4	16.8	15.4	
18	7.9	6.7	8.5	8.0	7.7	6.5	6.4	4.2	2.4	3.2	6.2	10.7	13.7	16.2	15.9	15.7	
19	8.1	8.5	9.4	9.1	8.5	7.6	6.8	5.4	3.4	4.2	8.2	14.3	16.7	17.8	18.4	18.3	
20	6.8	6.6	6.6	7.8	7.6	7.8	7.2	5.8	3.6	3.2	5.6	10.6	14.4	15.6	15.3	14.2	
21	8.6	8.2	7.4	6.0	6.4	6.6	6.4	5.2	3.0	3.2	6.8	11.8	14.4	15.0	15.2	13.2	
22 **	8.8	8.6	8.2	7.6	7.2	9.3	12.8	11.1	6.8	5.6	6.5	10.2	14.7	16.2	16.0	16.5	
23 **	3.6	6.0	5.6	7.7	6.6	7.4	6.4	9.0	7.0	7.0	8.4	11.6	11.6	11.5	12.2	9.8	
24 **	1.0	-0.4	1.7	3.6	4.3	7.6	10.4	8.1	9.5	4.4	6.2	9.8	14.0	18.8	18.8	17.4	
25	2.6	5.2	6.4	6.4	6.5	5.7	5.1	4.1	3.0	2.6	3.4	6.0	8.7	10.8	10.9	11.1	
26	8.1	7.8	7.6	7.8	7.6	7.4	7.4	6.6	6.0	5.6	6.4	10.6	12.8	14.0	14.4	13.1	
27 **	5.6	6.4	9.4	8.5	9.2	7.4	6.2	5.3	3.6	4.1	7.9	12.3	13.6	15.0	14.0	13.3	
28 **	4.4	7.4	8.2	8.0	8.1	7.1	6.1	4.5	4.5	5.6	9.0	15.9	16.7	15.5	15.1	15.2	
29	3.5	5.7	8.0	7.8	8.0	7.4	6.2	4.5	3.2	4.2	5.2	8.6	11.6	12.6	12.5	12.0	
30	5.8	6.4	7.6	7.2	7.3	6.7	6.8	5.5	4.0	4.8	7.5	11.4	14.8	16.6	14.7	13.1	
31	7.1	8.4	8.6	8.6	8.6	8.4	8.2	6.2	5.1	4.5	8.2	11.4	14.2	15.0	15.1	14.4	
Mean	6.4	6.6	7.2	7.3	7.1	7.2	7.1	6.0	4.2	4.1	6.4	10.8	14.2	16.0	15.8	14.8	
Mean *	8.2	8.1	8.1	7.9	7.6	7.3	6.8	5.6	3.6	3.5	6.0	9.8	13.6	15.7	15.7	14.7	
Mean **	4.7	5.6	6.6	7.1	7.1	7.8	8.4	7.6	6.3	5.3	7.6	12.0	14.1	15.4	15.2	14.4	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
10° + Tabular Quantities														
13.5	11.5	10.5	10.4	9.4	9.6	9.9	9.9	11.0	13 17	21.8	4.4	8 3	17.4	1
14.2	11.5	9.8	10.3	10.5	10.5	10.4	10.5	10.7	13 1	19.6	1.5	7 40	18.1	2
27.7	22.6	20.4	15.5	14.9	6.8	5.7	2.6	12.4	16 20	30.0	- 2.5	8 49	32.5	3 **
36.5	12.7	19.6	16.7	8.6	2.9	- 2.4	-18.0	8.8	16 57	58.2†	†-34.6	23 42	92.8	4 **
9.3	9.4	9.5	4.2	4.6	9.1	9.3	8.2	4.6	12 29	14.4	-20.8	2 34	35.2	5 **
10.6	9.3	8.3	7.8	8.3	9.5	9.6	9.5	8.5	14 24	15.0	0.4	7 56	14.6	6
13.1	9.5	10.4	8.7	5.6	8.8	6.8	6.1	9.6	14 16	20.6	0.4	20 5	20.2	7
12.6	11.5	10.9	11.5	11.2	10.2	4.8	4.2	8.8	13 15	18.1	- 2.2	22 58	20.3	8
10.3	9.5	9.5	9.3	8.9	8.3	8.5	7.2	9.0	13 50	24.1	- 0.5	1 56	24.6	9
11.6	8.8	9.5	10.7	10.9	10.8	10.2	9.7	10.2	13 33	22.6	2.5	8 13	20.1	10
11.8	10.4	10.1	10.4	9.5	9.4	9.5	9.9	9.6	12 45	20.2	0.7	8 33	19.5	11
12.3	10.5	10.5	10.2	10.5	10.1	9.6	8.8	9.7	13 4	18.7	0.9	7 55	17.8	12
11.2	9.6	10.3	10.2	10.1	8.6	9.0	9.5	10.1	13 38	20.4	2.5	8 8	17.9	13 *
12.5	11.1	10.7	10.5	9.9	10.5	10.6	10.2	10.3	13 16	19.7	0.5	9 6	19.2	14 *
13.8	11.8	11.5	12.5	11.7	11.3	10.6	8.7	11.2	13 21	24.7	1.7	8 9	23.0	15
17.9	13.5	7.2	11.7	8.0	2.4	2.3	4.5	8.6	13 48	32.8	- 2.6	5 45	35.4	16 **
12.2	9.9	9.4	10.1	10.1	9.5	10.2	9.4	10.2	12 20	20.9	2.3	0 19	18.6	17
13.2	11.5	11.2	8.5	9.2	9.5	9.7	9.5	9.8	13 35	17.8	1.6	8 10	16.2	18 *
12.7	11.0	10.8	10.9	10.6	9.9	10.3	9.6	10.0	13 28	17.1	2.6	8 16	14.5	19
13.4	11.5	10.8	10.5	10.8	10.8	9.4	9.2	10.1	13 57	17.5	3.4	7 51	14.1	20
12.3	11.5	11.5	10.7	10.6	10.3	10.3	10.2	9.6	13 40	15.7	2.9	8 35	12.8	21 *
12.8	11.8	11.5	10.8	10.8	10.7	10.3	10.3	9.9	13 35	17.5	2.5	8 58	15.0	22 *
13.6	12.3	11.5	11.3	10.9	10.7	9.8	11.3	10.0	13 56	16.6	4.5	8 10	12.1	23
12.8	12.1	11.7	10.7	10.6	10.7	10.3	12.7	9.9	13 18	16.7	2.6	8 40	14.1	24
15.0	11.5	6.8	8.1	5.9	7.7	10.5	5.4	10.1	22 54	26.8	- 6.5	20 48	33.3	25 **
12.2	9.5	9.0	8.7	6.8	6.6	8.5	7.5	8.4	13 21	16.9	- 2.2	1 19	19.1	26
11.2	10.2	7.9	7.5	8.5	5.8	7.3	8.2	8.7	13 47	16.5	3.0	9 1	13.5	27
12.8	11.3	10.3	9.6	9.5	8.8	8.7	8.6	10.3	12 57	17.7	3.6	0 45	14.1	28
13.5	11.5	10.5	10.0	10.2	9.5	9.2	8.8	10.0	14 10	17.7	1.3	9 9	16.4	29
15.7	14.9	10.9	6.9	9.7	5.3	1.4	6.7	10.4	13 30	22.7	- 3.6	23 10	26.3	30
14.1	11.5	10.8	10.2	9.6	8.8	8.3	7.6	9.7	-	21.3	- 1.0	-	22.3	Mean
12.4	11.1	11.0	10.1	10.1	9.9	10.0	9.9	10.0	-	18.2	2.0	-	16.2	Mean *
21.3	13.9	12.7	11.2	8.4	5.8	5.1	0.5	8.9	-	32.4	-13.4	-	45.8	Mean **

10° + Tabular Quantities														OCTOBER
13.7	12.7	12.3	11.5	10.8	8.4	6.8	0.7	9.5	14 14	16.1	- 1.5	23 15	17.6	1
13.4	12.3	11.6	10.8	10.7	10.5	6.0	5.5	7.8	14 41	16.2	- 2.5	0 8	18.7	2
15.8	15.3	9.5	8.6	8.7	8.6	8.2	8.5	9.7	12 56	23.5	0.5	4 13	23.0	3
12.9	11.7	10.9	10.0	9.8	10.2	10.2	9.8	10.0	14 0	18.3	3.5	8 58	14.8	4 *
13.1	12.4	12.4	13.5	11.7	10.6	6.8	8.4	9.4	13 28	18.7	- 1.5	0 22	20.2	5
13.3	11.7	11.1	11.3	11.3	9.3	9.4	9.3	9.7	13 12	20.4	2.5	8 30	17.9	6
14.5	11.5	10.7	10.5	9.7	7.6	0.2	0.4	8.6	13 31	16.6	- 2.6	22 48	19.2	7
11.7	10.8	10.6	10.5	10.3	9.8	8.9	7.1	7.9	14 11	15.7	- 2.5	2 13	18.2	8
12.3	11.2	10.6	10.6	10.8	9.7	9.7	9.5	9.2	13 59	15.5	3.4	9 5	12.1	9 *
12.4	11.5	10.6	10.5	10.3	9.5	9.5	9.4	9.0	14 35	14.9	2.5	9 10	12.4	10 *
13.0	11.9	11.3	11.3	10.5	8.3	7.3	7.3	9.9	14 1	16.6	1.5	9 2	15.1	11 *
14.3	12.7	11.3	10.5	10.2	8.9	9.1	9.5	9.9	13 48	18.4	2.5	9 10	15.9	12 *
13.8	12.2	10.6	10.5	9.5	9.7	9.6	9.1	10.6	13 41	20.5	2.6	8 43	17.9	13
14.3	12.7	11.8	11.3	10.2	9.5	8.2	7.9	10.2	14 1	21.7	2.5	8 59	19.2	14
14.5	12.7	12.3	11.5	9.5	7.8	8.6	8.3	9.8	15 2	17.6	3.0	9 5	14.6	15
13.5	12.5	11.7	11.3	10.8	9.7	9.3	8.5	9.6	13 17	18.6	2.5	8 50	16.1	16
13.5	12.5	11.9	11.0	9.9	9.5	7.5	6.5	9.3	13 41	18.5	1.5	9 10	17.0	17
13.4	10.7	11.3	11.2	10.5	9.5	7.4	7.5	9.2	13 29	17.5	1.5	8 31	16.0	18
13.6	13.2	13.2	11.4	10.7	9.3	7.4	7.5	10.5	14 34	19.6	2.4	8 41	17.2	19
12.8	11.8	11.4	11.2	10.5	10.2	6.6	8.6	9.2	13 44	16.5	2.5	9 2	14.0	20
11.4	10.6	10.8	11.0	10.6	9.8	8.8	9.0	9.1	14 20	15.9	1.6	8 52	14.3	21
15.6	8.3	12.0	9.1	0.6	3.0	0.8	3.2	9.1	16 48	24.7†	- 6.7	22 31	31.4	22 **
10.1	12.6	12.3	4.8	4.0	3.2	3.6	6.6	7.9	17 58	17.6	- 2.3	0 10	19.9	23 **
11.7	2.8	8.6	1.3	- 2.7	3.0	- 5.7	- 1.8	6.4	13 49	22.9	†-16.6	22 19	39.5	24 **
10.8	10.0	8.8	8.4	8.2	8.3	7.4	7.6	7.0	13 39	11.6	- 0.4	0 0	12.0	25
12.4	13.0	10.8	6.6	5.2	5.0	5.0	5.6	8.6	14 10	14.9	2.9	19 40	12.0	26
12.6	12.3	5.4	9.6	1.4	- 1.8	3.4	2.4	7.8	19 22	22.7	-12.6	21 1	35.3	27 **
15.4	8.8	8.1	8.1	7.6	2.4	1.4	2.6	8.6	12 13	21.7	- 5.6	22 3	27.3	28 **
9.7	10.4	10.1	9.4	- 2.8	- 2.6	1.7	4.6	6.7	14 38	13.8	- 7.7	20 37	21.5	29
12.4	9.8	11.4	9.2	8.7	4.8	- 3.5	6.4	8.3	13 1	17.5	- 7.7	22 24	25.2	30
11.7	12.0	11.5	11.0	8.7	8.2	8.6	8.5	9.7	13 0	15.8	3.9	8 2	11.9	31
13.0	11.4	10.9	9.9	8.3	7.4	6.1	6.6	8.9	-	18.1	- 0.9	-	18.9	Mean
13.0	11.8	10.9	10.6	10.3	9.3	9.2	9.1	9.4	-	16.7	2.7	-	14.1	Mean *
13.1	9.0	9.3	6.6	2.2	2.0	0.7	2.6	7.9	-	21.9	- 8.8	-	30.7	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
NOVEMBER																	
10° + Tabular Quantities																	
1	8.5	8.5	8.6	8.7	8.6	8.5	8.2	7.1	4.4	3.2	5.9	9.2	12.5	14.5	14.3	14.2	
2 **	8.5	7.9	7.5	7.9	8.4	8.1	8.1	7.4	5.6	5.5	7.5	12.2	15.0	16.5	18.6	18.4	
3 **	3.2	4.9	7.6	4.2	5.4	6.7	7.4	6.6	5.4	4.5	5.6	9.2	12.2	14.2	16.2	15.1	
4	5.6	6.8	5.3	7.2	6.3	6.2	6.9	7.0	6.5	6.2	7.5	10.8	13.9	13.2	12.5	11.3	
5 *	8.5	7.7	7.9	8.4	8.2	7.7	7.3	6.7	5.4	4.4	6.2	9.7	12.5	13.1	13.0	11.8	
6 *	8.7	8.5	7.9	8.4	7.7	7.5	7.2	6.5	5.3	5.2	7.1	9.3	11.5	12.2	12.4	11.7	
7	8.5	8.0	7.9	7.6	7.5	6.7	6.6	6.5	6.0	6.1	7.9	10.7	14.1	16.3	16.5	16.1	
8 *	8.5	8.6	8.3	7.9	7.6	7.1	6.7	6.2	4.6	4.4	6.4	9.5	12.9	14.5	14.4	12.6	
9	8.5	8.9	9.2	9.1	8.7	8.5	7.2	6.5	5.0	4.4	6.6	9.3	11.5	12.8	13.4	12.6	
10 **	9.6	9.6	9.7	9.7	9.5	9.5	8.7	7.6	6.4	6.0	10.5	9.3	11.6	13.5	13.7	12.7	
11 **	4.4	-0.6	-1.6	5.4	4.5	7.5	9.2	6.9	5.4	6.2	7.5	10.3	12.2	12.7	12.5	11.5	
12	8.1	8.5	8.1	7.6	7.5	7.5	7.4	6.8	6.3	6.4	7.8	9.7	12.5	14.2	11.8	11.5	
13	7.1	6.5	6.4	5.9	5.6	5.2	5.5	6.7	6.8	6.5	8.6	11.2	12.5	13.2	12.2	11.5	
14	8.1	8.2	8.1	8.5	8.5	7.8	7.2	6.5	5.3	5.0	6.5	8.7	11.2	12.0	11.5	11.5	
15	5.4	7.1	7.8	8.3	7.1	7.0	7.0	6.5	6.2	7.0	8.8	12.0	13.5	15.4	14.0	12.9	
16	7.2	7.0	7.7	8.4	8.5	7.5	8.4	7.5	5.6	5.7	7.5	11.7	14.3	15.2	16.2	14.7	
17	6.8	7.1	7.5	7.7	8.5	7.4	8.4	7.8	6.5	6.5	8.4	10.5	12.4	13.0	12.6	12.0	
18	7.5	7.8	8.3	7.9	8.5	8.4	8.2	7.4	7.4	6.5	8.5	10.7	12.2	14.1	15.1	14.2	
19	8.1	8.5	8.3	8.6	8.5	8.0	7.5	7.5	6.8	6.1	7.2	9.3	11.5	12.5	13.4	12.5	
20	8.5	8.3	9.2	7.7	7.3	7.0	7.0	6.7	6.3	6.3	7.7	9.5	11.5	12.5	12.7	12.5	
21	8.6	7.3	8.1	8.5	8.4	7.5	7.3	7.4	6.9	7.1	8.6	10.4	12.7	13.5	13.3	13.0	
22 *	7.5	6.4	6.5	6.7	7.5	7.5	7.5	6.7	6.5	7.2	9.0	10.8	11.8	11.5	12.0	11.7	
23	8.1	7.2	7.6	8.3	8.6	8.3	7.9	8.0	8.2	7.9	9.6	10.8	11.2	11.8	11.0	10.6	
24	8.6	8.7	8.8	8.6	8.5	8.4	8.2	8.6	8.7	7.9	10.0	12.9	12.5	13.4	12.1	10.7	
25	7.8	8.0	8.1	7.6	7.6	7.5	7.3	6.8	6.5	6.8	8.7	10.7	12.5	13.7	13.6	14.5	
26	4.8	6.5	6.8	8.6	8.5	8.1	7.3	6.6	5.6	6.1	8.5	10.4	11.5	13.2	13.6	14.4	
27	6.6	7.4	7.5	8.0	9.4	8.6	7.3	6.8	6.5	6.1	8.6	10.1	12.2	13.6	13.5	13.4	
28 **	5.4	7.6	8.5	6.1	4.5	6.5	7.6	11.4	10.3	8.3	10.0	11.5	14.8	13.3	13.3	12.4	
29	6.6	8.1	6.5	5.1	6.3	8.5	7.5	7.5	7.1	7.6	7.5	9.7	12.5	14.4	15.0	14.8	
30 *	7.6	8.3	8.4	8.2	7.6	8.0	7.8	7.5	7.5	7.6	8.9	10.5	11.8	11.7	11.8	11.8	
Mean	7.4	7.4	7.6	7.7	7.6	7.6	7.5	7.2	6.4	6.2	8.0	10.4	12.5	13.5	13.5	13.0	
Mean *	8.2	7.9	7.8	7.9	7.7	7.6	7.3	6.7	5.9	5.8	7.5	10.0	12.1	12.6	12.7	11.9	
Mean **	6.2	5.9	6.3	6.7	6.5	7.7	8.2	8.0	6.6	6.1	8.2	10.5	13.2	14.0	14.9	14.0	
DECEMBER																	
10° + Tabular Quantities																	
1 *	7.6	8.3	8.4	8.2	8.4	8.1	7.6	7.2	7.2	7.2	8.4	9.3	10.2	10.5	10.8	11.2	
2	7.6	7.5	6.5	6.5	6.5	7.5	7.5	7.5	7.7	7.5	8.6	10.9	12.7	14.2	14.6	17.6	
3	5.8	3.7	0.6	5.1	7.2	6.9	7.7	7.6	8.3	8.2	9.8	11.2	12.3	12.2	12.1	11.7	
4 **	8.2	8.2	7.5	7.4	8.0	7.5	7.3	6.8	7.2	6.8	8.5	12.1	13.9	15.1	15.1	12.4	
5 **	-12.1	-22.1	-6.4	-4.7	2.5	6.1	6.8	8.2	8.5	8.3	9.5	10.2	10.5	11.4	10.7	10.4	
6	7.1	6.5	6.6	7.0	6.6	6.5	6.5	6.6	6.7	7.5	8.2	11.0	13.1	12.6	13.5	13.4	
7 *	7.9	7.7	7.6	7.7	7.3	7.3	7.5	6.7	6.5	5.6	7.5	9.5	10.6	11.5	11.4	10.6	
8	7.9	7.7	7.5	7.2	7.3	7.0	6.8	6.8	7.3	7.1	8.3	11.1	12.2	13.5	12.8	13.5	
9	4.2	2.8	4.5	7.0	7.8	7.5	6.1	7.8	8.4	6.9	8.6	11.3	11.8	11.5	11.5	11.3	
10 *	8.1	8.2	7.5	6.4	5.2	5.5	5.6	6.5	6.5	6.5	8.8	11.3	12.3	12.2	11.5	10.8	
11	8.5	8.1	7.8	7.1	5.7	6.4	6.4	6.2	6.4	7.3	8.7	10.6	11.5	12.5	11.2	11.2	
12 *	7.6	6.7	5.1	5.6	7.2	7.3	7.0	6.5	6.2	6.5	7.2	9.4	10.6	12.4	11.6	11.5	
13 **	4.0	2.2	0.1	-4.9	2.4	4.1	5.9	6.0	6.5	7.2	8.8	11.5	15.7	17.7	16.2	15.4	
14	5.0	6.7	7.7	8.6	9.3	8.2	7.5	7.3	7.0	8.3	9.4	9.6	10.5	10.7	11.5	12.1	
15	6.4	7.2	7.4	7.5	7.8	8.0	7.5	7.2	7.3	7.0	8.5	10.4	10.4	11.5	11.9	12.9	
16	6.6	6.5	6.3	7.2	8.3	5.9	7.3	7.5	7.6	6.5	8.4	11.9	11.5	11.8	11.5	10.5	
17 **	7.7	8.2	8.6	8.8	8.9	8.8	8.5	8.0	8.2	7.6	8.3	9.5	9.4	10.0	10.6	10.6	
18 **	-3.8	-6.5	-3.6	-4.8	6.8	9.4	6.5	6.4	6.7	7.2	7.3	8.5	9.6	9.2	9.1	10.2	
19	6.5	-1.6	-4.6	1.3	4.6	7.5	9.4	8.3	7.7	7.7	7.4	9.5	9.9	10.3	10.7	10.8	
20	6.6	7.5	8.2	9.8	8.1	8.5	8.7	8.1	6.8	5.6	8.9	10.3	11.5	13.1	12.1	10.5	
21	7.3	7.2	7.7	6.4	6.8	7.2	7.6	7.2	5.4	6.5	8.3	9.1	10.7	11.4	11.8	10.6	
22	7.5	8.8	7.7	7.7	7.5	7.5	8.0	7.6	6.5	6.4	6.7	8.6	9.6	10.7	10.3	10.5	
23	7.5	8.0	8.4	8.2	7.6	7.6	7.5	6.9	7.7	8.4	10.3	11.3	11.5	13.1	13.4	10.7	
24	7.4	6.7	7.5	7.5	8.6	8.5	7.5	7.1	5.4	5.0	6.5	8.1	10.7	12.1	11.9	10.8	
25 *	7.5	8.0	8.4	8.5	8.5	8.3	7.6	6.8	5.6	5.5	6.7	7.7	9.2	11.8	11.7	9.9	
26	7.2	6.6	6.5	6.2	7.2	6.7	7.2	6.6	6.1	6.4	8.3	10.2	11.9	12.8	12.2	11.3	
27	5.3	6.4	6.6	6.3	5.3	6.6	6.2	6.5	5.6	6.4	9.2	9.5	10.5	13.1	12.0	10.6	
28	2.4	5.4	5.4	7.2	7.0	7.2	7.8	6.7	7.2	7.5	10.2	9.6	11.2	13.2	13.8	11.6	
29	6.5	6.7	7.4	8.2	8.0	7.2	8.0	7.1	5.9	6.3	7.5	7.4	8.7	13.3	12.6	11.7	
30	4.2	6.4	7.3	7.7	8.3	8.3	7.4	7.4	6.7	7.5	8.4	9.4	11.7	12.7	13.2	12.2	
31	7.3	8.5	8.3	8.5	7.7	6.6	6.5	6.2	5.5	5.6	7.5	8.5	11.4	13.3	12.8	11.3	
Mean	5.7	5.2	5.7	6.4	7.0	7.3	7.3	7.1	6.8	6.9	8.3	10.0	11.2	12.3	12.1	11.6	
Mean *	7.7	7.8	7.4	7.3	7.3	7.3	7.1	6.7	6.4	6.3	7.7	9.4	10.6	11.7	11.4	10.8	
Mean **	0.8	-2.0	1.2	2.5	5.7	7.2	7.0	7.1	7.4	7.4	8.5	10.4	11.8	12.7	12.3	11.8	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
10° + Tabular Quantities														NOVEMBER
										h m		h m		
13.5	13.5	13.5	12.1	11.0	8.6	6.9	8.5	9.7	15 9	15.4	2.4	9 5	13.0	1
18.6	20.6	12.5	9.2	8.4	8.1	6.5	5.4	10.5	17 23	24.8†	3.5	23 59	21.3	2 **
13.7	13.2	11.7	11.1	10.5	8.3	7.5	5.4	8.7	14 20	17.6	1.5	1 0	16.1	3 **
10.7	10.5	11.2	10.5	9.1	6.6	8.5	8.5	8.7	12 2	19.0	4.5	2 36	14.5	4
11.0	10.5	10.1	10.2	9.7	8.8	8.4	8.5	9.0	13 19	13.6	4.0	9 9	9.6	5 *
11.5	11.5	11.7	11.2	10.5	10.3	7.5	8.8	9.2	13 43	12.6	4.5	8 54	8.1	6 *
13.4	11.5	10.6	10.1	9.7	7.3	7.4	7.8	9.6	14 5	17.5	4.8	9 5	12.7	7
11.5	10.9	10.5	10.1	9.2	9.2	8.5	8.5	9.1	14 21	14.6	3.6	9 9	11.0	8 *
11.7	10.7	10.5	10.5	10.1	9.6	9.6	9.6	9.4	14 38	13.4	3.5	9 10	9.9	9
12.5	13.4	13.3	12.1	8.3	8.5	7.4	6.7	10.0	13 58	16.4	4.7	9 9	11.7	10 **
11.4	10.6	10.2	10.3	9.3	8.2	8.0	8.1	7.9	13 34	14.7	†-6.7	2 7	21.4	11 **
11.4	11.3	11.5	7.4	7.5	6.5	6.5	7.2	8.8	13 35	16.4	4.3	19 31	12.1	12
11.3	10.7	10.6	9.9	9.1	8.5	8.3	8.5	8.7	13 11	13.6	3.5	4 9	10.1	13
11.4	11.1	10.5	10.2	9.5	8.6	5.9	7.3	8.7	13 40	12.4	4.2	9 4	8.2	14
12.4	11.3	11.0	10.3	9.4	8.7	8.2	7.8	9.4	13 12	17.5	4.2	0 9	13.3	15
13.0	11.3	10.5	9.7	9.4	8.7	8.1	7.2	9.6	14 34	16.7	3.7	8 54	13.0	16
11.7	10.5	10.4	9.6	8.5	6.9	7.5	6.5	8.9	14 8	13.6	4.6	8 57	9.0	17
14.3	11.5	11.5	9.8	6.5	5.4	5.7	7.4	9.4	14 19	15.6	2.7	21 28	12.9	18
11.0	10.2	9.5	8.8	8.8	8.7	8.5	8.5	9.1	13 53	13.9	5.5	9 25	8.4	19
12.2	10.7	9.9	9.5	9.3	9.2	8.7	8.5	9.1	14 26	13.3	5.7	9 15	7.6	20
12.6	10.8	9.5	9.5	9.5	9.3	8.8	8.4	9.5	16 0	13.6	6.5	1 20	7.1	21
10.9	10.2	9.9	9.7	9.5	9.2	8.9	8.2	8.9	14 39	12.6	5.9	1 53	6.7	22 *
11.6	10.9	9.6	9.4	8.7	8.5	8.4	8.5	9.2	13 4	14.1	7.0	1 10	7.1	23
9.5	8.4	7.7	7.7	6.2	6.5	7.5	7.6	9.1	13 39	14.6	5.4	20 20	9.2	24
12.3	10.9	10.1	8.5	6.6	5.6	4.3	1.3	8.6	13 52	16.2	-0.6	23 23	16.8	25
13.5	13.3	10.3	7.9	8.7	7.7	6.7	5.4	8.9	15 2	14.8	2.6	0 1	12.2	26
13.6	10.5	9.5	10.7	8.9	6.5	6.2	4.0	9.0	13 7	14.7	3.4	23 38	11.3	27
11.2	10.5	9.8	9.3	8.0	7.3	4.6	5.6	9.1	12 32	17.6	2.8	4 30	14.8	28 **
12.4	10.4	8.9	8.4	7.7	7.5	7.5	7.2	8.9	15 20	15.8	3.4	2 54	12.4	29
11.4	10.5	9.7	9.3	8.7	8.4	8.1	7.7	9.1	12 45	12.6	7.4	0 26	5.2	30 *
12.2	11.4	10.5	9.8	8.9	8.0	7.5	7.3	9.1	-	15.3	3.8	-	11.5	Mean
11.3	10.7	10.4	10.1	9.5	9.2	8.3	8.3	9.1	-	13.2	5.1	-	8.1	Mean *
13.5	13.7	11.5	10.4	8.9	8.1	6.8	6.2	9.2	-	18.2	1.2	-	17.1	Mean **

10° + Tabular Quantities														DECEMBER
										h m		h m		
11.5	11.2	10.6	9.7	8.7	8.3	7.8	7.7	8.9	15 56	11.8	6.6	9 7	5.2	1 *
17.6	18.3	17.3	10.9	11.4	2.9	4.0	6.5	10.0	18 6	26.7	-10.9	21 52	37.6	2
11.6	10.8	10.4	9.6	9.2	8.5	8.4	8.1	8.6	14 11	12.7	-0.6	2 3	13.3	3
14.2	18.9	5.7	-0.9	6.7	3.5	-6.1	-4.0	7.9	17 24	25.7	-15.0	18 50	40.7	4 **
10.5	10.1	9.5	9.5	8.2	7.5	7.2	7.6	5.3	13 3	12.6	†-31.9	1 20	44.5	5 **
14.5	10.5	9.5	8.7	8.1	7.5	5.5	4.9	8.7	16 34	15.6	-0.4	23 0	16.0	6
10.3	9.5	9.4	8.5	8.4	8.3	8.5	7.6	8.5	13 3	12.8	5.5	9 10	7.3	7 *
13.7	10.5	9.7	11.2	5.1	7.6	7.5	4.4	8.9	16 8	15.7	-1.6	20 40	17.3	8
10.8	9.9	9.2	8.6	8.2	7.9	8.5	8.4	8.4	11 42	13.5	1.5	1 11	12.0	9
10.2	9.4	9.0	8.6	8.4	8.3	8.2	8.4	8.5	13 0	12.6	4.5	6 40	8.1	10 *
11.1	10.5	9.9	9.6	9.4	8.5	2.6	7.2	8.5	13 22	14.7	-3.9	22 31	18.6	11
10.6	9.6	10.3	9.7	8.7	7.3	4.1	5.9	8.1	13 1	15.2	3.3	22 35	11.9	12 *
16.6	18.8	22.1	14.0	10.6	3.8	-0.3	4.1	8.7	18 14	27.5†	-7.6	3 9	35.1	13 **
12.2	12.6	11.5	7.1	5.6	6.2	4.0	3.0	8.4	16 59	15.6	0.6	19 53	15.0	14
12.2	9.1	10.9	9.7	8.2	7.7	6.2	6.1	8.7	15 25	13.2	4.5	9 38	8.7	15
9.8	9.7	9.9	9.0	8.4	7.5	7.5	7.5	8.5	11 51	14.2	3.6	5 20	10.6	16
11.5	13.6	1.7	7.5	8.3	5.5	6.2	-1.7	8.1	17 24	15.9	-15.8	18 50	31.7	17 **
9.5	8.8	8.5	8.7	8.3	6.2	6.5	7.3	6.3	2 16	13.6	-17.9	2 42	31.5	18 **
7.7	9.8	8.7	7.8	4.5	6.4	6.8	7.2	6.9	13 51	12.3	-5.6	2 19	17.9	19
9.2	9.3	9.5	8.1	4.3	4.5	7.5	7.5	8.5	13 21	14.7	1.7	20 48	13.0	20
9.6	9.4	8.8	5.5	7.4	7.5	6.8	6.6	8.0	14 42	12.6	4.5	19 36	8.1	21
10.4	9.5	10.0	6.3	7.5	5.5	6.4	7.4	8.1	13 20	13.1	3.5	21 34	9.6	22
10.5	9.4	4.4	8.1	6.8	5.6	4.5	6.4	8.5	12 51	15.4	0.6	18 9	14.8	23
9.8	9.6	8.5	8.3	7.5	7.6	5.5	6.4	8.1	13 19	13.4	4.0	9 50	9.4	24
10.1	9.6	9.5	8.6	7.6	7.6	7.2	7.6	8.3	14 8	12.6	4.5	9 6	8.1	25 *
11.9	12.8	8.7	8.1	7.6	4.1	1.2	4.6	8.0	17 25	14.6	-0.7	22 8	15.3	26
10.3	10.4	9.5	8.5	7.8	7.2	7.3	6.9	8.1	13 51	15.6	3.0	0 2	12.6	27
11.5	10.4	9.7	5.9	6.2	6.0	6.0	4.8	8.1	14 0	15.9	0.4	0 30	15.5	28
12.0	11.5	10.5	9.0	9.7	6.2	4.2	3.2	8.3	14 20	13.8	2.4	23 21	11.4	29
11.4	11.7	11.3	8.8	6.1	6.2	7.1	5.1	8.6	12 57	17.0	3.0	0 0	14.0	30
11.1	10.9	10.7	8.7	8.4	8.2	7.9	7.8	8.7	14 5	13.7	4.5	9 0	9.2	31
11.4	11.2	9.8	8.4	7.8	6.6	5.6	5.8	8.2	-	15.3	-1.6	-	16.9	Mean
10.5	9.9	9.8	9.0	8.4	8.0	7.2	7.4	8.5	-	13.0	4.9	-	8.1	Mean *
12.5	14.0	9.5	7.8	8.4	5.3	2.7	2.7	7.3	-	19.1	-17.6	-	36.7	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
JANUARY																	
18000 γ + Tabular Quantities (in γ)																	
1 **	546	543	606	575	594	561	601	624	594	575	574	582	579	574	579	593	
2	595	583	604	610	612	618	624	620	612	608	617	607	590	590	597	597	
3 *	644	639	639	643	644	644	643	643	643	639	633	625	616	615	619	626	
4 *	644	648	648	650	652	653	656	655	651	645	639	631	624	623	626	634	
5 *	649	635	640	639	644	655	656	656	656	651	644	637	634	638	641	640	
6	652	652	657	663	673	672	673	669	666	665	657	651	643	640	643	632	
7 *	653	652	653	652	660	663	665	669	665	664	659	649	639	632	632	640	
8 *	661	658	661	664	665	669	672	672	666	657	649	647	640	634	629	637	
9	656	656	657	661	665	669	674	674	669	664	658	646	639	637	624	628	
10	635	656	639	636	641	643	643	646	647	640	631	621	624	626	624	636	
11	648	660	651	649	648	650	651	654	656	648	642	640	644	644	640	650	
12	649	650	641	643	649	651	646	643	639	630	626	621	618	630	635	643	
13	653	656	650	649	658	663	659	659	654	642	632	631	633	634	640	647	
14	646	645	650	653	655	656	653	650	637	630	635	625	621	631	638	652	
15	648	646	645	649	649	650	659	657	631	621	615	615	619	620	620	632	
16	645	646	648	649	650	653	648	644	640	633	626	625	631	641	650	653	
17 **	645	645	646	649	674	662	653	650	636	613	597	603	608	615	608	615	
18 **	628	623	623	652	646	645	631	624	621	608	597	600	586	578	595	612	
19	638	632	636	637	638	647	644	635	633	621	607	595	590	593	609	623	
20	645	644	642	643	645	649	652	650	642	635	624	609	612	621	626	636	
21 **	628	655	616	587	617	630	618	614	626	620	608	596	587	591	603	616	
22	643	637	636	638	643	646	642	641	644	644	637	621	608	591	602	623	
23 **	648	656	640	641	672	672	665	645	639	628	615	611	602	618	633	626	
24	648	647	645	647	648	645	648	646	642	635	632	619	607	630	640	635	
25	656	649	652	658	660	657	654	652	652	628	629	640	637	637	619	628	
26	647	647	656	652	669	672	633	625	622	608	601	600	607	617	624	626	
27	636	640	642	648	648	648	647	645	639	631	627	627	628	634	639	640	
28	653	655	657	657	660	661	665	669	656	637	632	632	627	636	637	643	
29	661	663	658	677	669	674	681	673	657	657	649	643	643	648	648	639	
30	659	661	661	660	666	670	677	674	661	652	648	647	643	641	644	640	
31	665	665	660	661	668	670	672	672	665	660	652	649	651	659	657	656	
Mean	643	643	644	645	651	652	652	650	644	635	629	624	620	623	626	632	
Mean *	650	646	648	650	653	657	658	659	656	651	645	638	631	628	629	635	
Mean **	619	624	626	621	641	634	634	631	623	609	598	598	592	595	604	612	
FEBRUARY																	
18000 γ + Tabular Quantities (in γ)																	
1	664	653	659	662	665	669	671	671	658	653	648	647	640	643	643	643	
2	669	676	666	664	668	673	685	683	672	660	640	640	641	643	643	652	
3 *	665	666	667	668	670	671	674	676	672	662	654	654	652	647	649	648	
4	680	668	667	671	675	677	681	682	681	677	672	660	657	670	658	640	
5	638	633	635	638	657	649	660	659	653	656	651	645	624	635	647	646	
6 **	628	619	628	631	645	657	657	653	652	652	640	623	630	632	615	621	
7	630	626	637	649	647	635	640	649	648	642	644	629	621	629	638	632	
8	644	661	647	641	657	665	656	648	648	628	639	639	645	652	653	633	
9	632	641	639	637	640	642	641	637	637	628	620	620	629	647	649	642	
10	648	653	643	644	644	643	647	640	636	628	621	621	631	640	645	642	
11 **	627	667	782	587	602	580	475	372	273	259	279	301	428	461	507	521	
12 **	560	553	574	578	578	593	599	585	576	566	550	550	553	561	569	578	
13	636	640	627	626	628	628	628	628	628	615	623	623	600	611	620	619	
14	635	646	652	633	623	662	646	628	619	613	614	606	615	619	619	622	
15 *	643	639	643	643	644	647	648	651	651	642	626	618	614	619	624	625	
16	668	661	657	660	661	665	666	665	660	651	646	641	629	628	630	639	
17 **	678	672	674	657	639	646	654	660	659	651	648	651	648	646	618	622	
18 **	647	648	651	640	640	635	639	644	641	632	610	626	623	618	618	618	
19	658	639	638	640	646	653	644	642	635	627	622	626	622	625	636	640	
20	637	639	640	644	651	658	651	651	656	653	646	652	651	646	631	632	
21	639	635	627	638	651	651	652	640	638	644	644	634	618	617	613	625	
22	639	643	637	634	633	636	647	648	651	652	640	635	629	626	636	635	
23	632	642	641	644	639	639	646	646	640	629	624	615	633	635	631	623	
24 *	655	652	652	648	648	651	651	651	641	634	619	615	618	628	638	643	
25 *	669	669	666	666	667	663	660	668	656	642	630	637	640	637	640	643	
26 *	667	666	664	666	667	666	667	666	662	654	644	637	638	639	644	649	
27	676	666	660	666	670	672	669	667	665	660	654	648	646	642	646	652	
28	657	662	665	675	667	665	665	660	652	637	639	627	614	638	645	639	
Mean	647	648	651	645	647	650	647	642	634	627	621	619	621	626	629	629	
Mean *	660	658	658	658	659	660	660	662	656	647	635	632	632	634	639	642	
Mean **	628	632	662	619	621	622	605	583	560	552	545	550	576	584	585	592	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date		
18000 γ + Tabular Quantities (in γ)													JANUARY		
										h m		h m	γ		
611	611	596	592	610	594	586	595	587	6	56	636	†528	1 28	108	1 **
608	620	628	627	623	623	627	634	611	23	20	637	571	1 17	66	2
628	631	636	636	636	636	639	642	635	3	55	647	614	13 17	33	3 *
641	648	652	656	659	661	661	658	646	22	40	665	622	14 0	43	4 *
643	648	657	661	660	659	656	655	648	19	8	662	631	1 27	31	5 *
636	647	656	662	665	662	661	663	657	4	14	674	627	15 29	47	6
644	645	652	655	656	656	657	657	653	7	37	670	626	14 9	44	7 *
644	641	648	656	661	664	662	661	655	7	10	673	627	13 59	46	8 *
639	641	646	659	659	653	639	636	652	6	38	676	621	14 7	55	9
639	640	655	657	656	660	661	656	642	1	43	664	615	11 28	49	10
651	655	653	629	632	654	655	654	648	1	46	663	606	19 50	57	11
643	645	656	659	660	659	650	640	643	20	37	665	613	11 55	52	12
652	652	659	663	662	634	632	639	648	20	28	675	620	21 43	55	13
651	649	649	655	658	635	638	645	644	20	7	664	618	12 3	46	14
637	637	646	646	649	651	637	642	638	6	7	662	609	10 56	53	15
658	655	663	660	640	644	652	653	646	18	58	670	621	10 54	49	16
642	646	641	645	650	646	624	628	635	4	30	688	591	14 58	97	17 **
618	617	621	627	624	632	633	633	620	3	23	666	572	13 23	94	18 **
627	631	628	631	644	641	640	649	628	23	18	653	589	13 5	64	19
656	667	659	660	663	664	644	619	642	21	51	703†	600	11 28	103	20
628	635	635	640	644	645	649	645	622	1	12	686	561	3 44	125	21 **
633	636	647	649	655	653	653	645	636	20	3	660	584	13 33	76	22
628	628	632	623	623	638	646	644	636	5	0	678	586	12 51	92	23 **
640	646	652	657	661	659	658	656	643	22	16	660	600	12 26	60	24
621	608	625	637	642	647	646	649	641	4	47	662	593	17 27	69	25
620	619	628	643	650	644	632	643	633	4	37	687	598	10 40	89	26
644	648	651	657	657	656	665	661	644	22	37	678	623	11 2	55	27
648	653	657	658	661	665	665	665	652	7	30	670	627	12 14	43	28
632	636	642	641	624	626	659	659	652	3	30	685	629	16 51	56	29
649	652	653	648	650	652	652	655	655	7	38	679	637	15 10	42	30
657	657	660	660	648	656	657	668	660	23	50	686	644	20 40	42	31
638	640	645	647	648	647	646	647	640	-	-	669	607	-	62.6	Mean
640	643	649	653	654	655	655	655	647	-	-	663	624	-	39.4	Mean *
625	627	625	625	630	631	628	629	620	-	-	671	568	-	103.2	Mean **
18000 γ + Tabular Quantities (in γ)													FEBRUARY		
										h m		h m	γ		
641	647	655	662	662	653	653	661	655	7	20	672	637	12 7	35	1
651	652	656	665	665	666	665	664	661	6	47	692	638	11 10	54	2
650	657	665	670	673	673	669	664	663	20	14	679	641	12 56	38	3 *
646	657	664	640	623	632	641	640	661	0	26	690	612	20 50	78	4
632	636	643	652	657	621	614	647	643	20	39	673	591	22 8	82	5
608	633	642	647	655	648	666	665	639	23	16	693	599	16 32	94	6 **
609	632	640	663	685	658	646	647	641	20	4	692	600	16 19	92	7
616	633	645	652	635	633	643	645	644	1	57	671	612	16 25	59	8
618	616	638	662	633	623	627	633	635	19	32	680	611	17 33	69	9
636	654	626	624	623	609	607	634	635	17	12	702	593	19 42	109	10
537	546	550	545	564	558	534	547	504	2	10	1050†	†143	8 54	907	11 **
610	611	618	606	611	623	614	625	585	18	19	666	530	11 4	136	12 **
623	619	632	637	638	632	628	623	626	19	57	649	583	13 2	66	13
622	626	629	641	639	637	649	644	631	5	17	667	600	11 35	67	14
632	653	663	668	668	659	661	671	644	23	22	698	611	12 53	87	15 *
636	655	662	671	665	658	669	674	655	22	33	680	625	16 17	55	16
631	624	636	647	648	632	637	640	647	1	8	691	605	14 20	86	17 **
625	627	642	654	642	646	653	643	636	19	10	689	599	10 43	90	18 **
635	639	641	639	648	658	648	647	640	0	23	675	611	13 10	64	19
641	639	638	624	615	625	629	641	641	5	34	668	592	20 37	76	20
628	627	618	626	633	645	647	632	634	22	1	691	607	14 9	84	21
634	639	660	650	642	656	658	665	643	23	8	691	606	13 9	85	22
641	639	651	651	660	657	650	654	640	20	30	679	608	11 22	71	23
646	645	656	659	656	666	672	670	646	22	20	679	611	12 3	68	24 *
646	652	660	662	662	664	666	666	655	23	5	672	629	10 30	43	25 *
652	656	660	663	667	663	664	664	658	20	33	668	631	11 39	37	26 *
656	655	664	654	646	660	651	658	658	0	28	686	639	20 34	47	27
640	646	651	663	666	665	665	660	653	3	27	679	603	12 5	76	28
630	636	643	646	646	644	644	647	638	-	-	694	592	-	102.0	Mean
645	653	661	664	665	665	666	667	653	-	-	679	625	-	54.6	Mean *
602	608	618	620	624	621	621	624	602	-	-	758	495	-	262.6	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
MARCH																	
18000 γ + Tabular Quantities (in γ)																	
1 *	676	651	655	654	656	655	655	653	645	634	633	632	633	637	637	646	
2 *	659	659	659	662	664	666	676	670	664	659	650	642	641	638	639	642	
3	665	666	666	668	667	669	671	679	673	662	649	637	624	641	645	655	
4	620	623	632	647	646	637	638	655	656	652	635	629	631	634	637	638	
5 **	641	631	646	646	662	654	669	634	642	632	620	617	613	617	620	627	
6	639	628	650	642	626	632	632	635	628	626	629	608	607	609	625	617	
7	649	653	654	648	674	658	647	633	621	612	608	608	597	605	621	628	
8	675	667	653	654	656	649	637	634	616	612	603	595	606	616	624	630	
9	656	653	650	634	639	646	646	642	637	618	599	594	606	617	628	622	
10	664	682	654	645	650	653	648	641	634	623	610	606	611	619	632	632	
11	641	645	644	648	648	648	646	646	647	644	643	643	633	624	628	644	
12 **	629	615	604	662	640	618	600	577	588	590	565	560	558	551	565	594	
13 **	639	648	647	653	640	653	656	625	618	593	578	577	569	580	579	594	
14	640	634	631	631	632	632	628	624	617	607	598	595	612	618	640	624	
15	666	662	665	669	664	669	681	664	640	620	618	606	607	612	622	621	
16 *	670	657	645	636	652	651	641	633	621	612	601	591	599	612	626	633	
17	648	653	656	653	657	656	646	661	639	617	631	623	612	611	611	616	
18	652	649	650	659	648	653	648	653	657	638	624	620	628	607	619	647	
19 **	644	643	631	638	643	648	638	650	643	631	616	593	573	584	612	634	
20 **	660	633	632	638	644	647	644	639	623	620	608	611	627	634	633	619	
21	667	653	641	659	648	639	648	644	625	611	595	605	621	629	638	645	
22	655	633	614	612	624	629	629	628	621	607	592	582	584	594	614	624	
23	658	649	638	652	672	658	653	649	636	624	592	610	610	612	619	626	
24	646	645	649	652	668	654	666	658	642	628	618	622	619	636	643	643	
25	642	645	640	644	644	652	658	644	642	638	627	612	617	612	624	640	
26	668	658	668	663	662	668	670	671	668	658	646	634	624	648	668	659	
27	666	654	654	650	650	658	662	660	643	632	616	606	602	608	618	626	
28 *	656	657	655	659	661	664	666	664	646	628	616	610	615	626	636	642	
29 *	668	664	661	659	663	667	668	669	663	644	628	616	617	623	641	653	
30	678	674	673	678	676	678	679	676	651	633	618	620	616	624	622	618	
31	646	641	638	646	645	658	661	650	642	622	606	603	606	626	639	654	
Mean	654	649	647	650	652	652	652	647	638	627	615	610	610	616	626	632	
Mean *	666	658	655	654	659	661	661	658	648	635	626	618	621	627	636	643	
Mean **	643	634	632	647	646	644	641	625	623	613	597	592	588	593	602	614	
APRIL																	
18000 γ + Tabular Quantities (in γ)																	
1	661	648	656	652	648	645	640	638	630	619	604	605	606	618	642	652	
2 **	658	655	657	656	665	668	669	650	652	635	607	581	596	600	616	629	
3	645	658	660	665	663	656	644	651	642	628	618	611	614	620	624	636	
4 **	655	659	659	659	673	661	662	657	648	632	616	608	629	633	639	652	
5	632	616	620	637	647	643	616	617	623	612	591	582	594	600	606	620	
6	638	657	642	644	646	647	656	653	643	627	605	605	614	617	636	646	
7	653	649	651	643	645	654	649	648	636	616	595	595	608	615	615	625	
8	645	647	649	663	652	655	657	655	643	624	606	595	598	611	627	643	
9	661	655	655	649	661	655	657	658	652	637	624	621	629	638	646	653	
10 *	653	657	657	656	658	660	663	663	654	634	617	613	618	628	642	655	
11 *	681	679	681	689	682	680	682	679	677	657	642	624	623	628	645	656	
12 *	682	682	681	679	677	677	680	683	683	676	667	655	651	655	663	671	
13 *	681	681	681	678	673	673	677	675	674	667	659	651	651	658	659	666	
14	680	678	679	678	681	678	679	684	685	679	653	645	656	675	654	667	
15	676	662	668	658	677	665	661	641	635	643	633	628	615	629	635	645	
16 **	653	658	661	668	655	663	656	655	661	642	625	611	621	629	637	644	
17 **	669	636	631	642	659	652	655	642	629	628	621	607	608	606	618	670	
18 **	642	652	657	645	629	628	627	620	610	603	587	577	605	598	611	639	
19	654	655	651	648	643	647	639	641	633	603	599	606	622	632	653	657	
20	656	652	651	652	649	643	655	658	661	655	642	634	627	638	643	645	
21	664	660	663	664	665	664	664	665	655	646	643	645	643	649	665	677	
22 *	654	656	656	657	659	665	669	669	667	649	639	631	631	637	645	649	
23	667	667	667	663	664	665	665	662	661	659	657	656	649	648	655	675	
24	667	663	667	669	655	664	655	638	636	637	637	635	633	630	636	642	
25	676	674	697	679	666	666	666	666	663	656	645	640	645	643	646	659	
26	683	679	677	677	677	677	676	670	663	654	649	644	645	647	658	681	
27	674	672	671	670	667	668	667	664	662	654	640	632	633	634	642	657	
28	662	651	664	654	656	652	656	650	642	641	640	627	620	618	614	642	
29	646	648	664	661	644	664	654	641	627	608	604	594	592	618	622	623	
30	665	671	655	669	665	655	655	656	641	628	617	607	624	627	647	667	
Mean	661	659	661	661	660	660	658	655	650	638	626	619	623	629	638	651	
Mean *	670	671	671	672	670	671	674	674	671	657	645	635	635	641	651	659	
Mean **	655	652	653	654	656	654	654	645	640	628	611	597	612	613	624	647	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
18000 γ + Tabular Quantities (in γ)														
										h m	h m		γ	
650	654	655	659	656	650	650	663	650	650	0 32	685	630 11 33	55	1 *
646	652	659	665	669	670	670	669	658	658	6 41	685	637 13 8	48	2 *
659	666	634	655	649	652	626	654	656	656	17 2	685	614 12 13	71	3
641	635	637	637	667	663	655	642	641	641	20 52	676	608 2 19	68	4
625	632	638	652	646	649	671	654	639	639	6 18	700	604 11 59	96	5 **
629	634	638	662	641	660	642	641	780	633	21 42	674	597 11 48	77	6
648	638	642	649	642	634	649	657	636	636	4 43	690	590 12 34	100	7
640	644	649	657	656	656	650	647	639	639	0 34	679	590 11 38	89	8
633	644	650	662	671	664	658	659	639	639	1 52	679	589 11 10	90	9
642	648	641	649	649	636	645	649	640	640	1 18	695	599 12 0	96	10
637	632	641	644	633	631	629	643	640	640	19 41	688	607 22 39	81	11
607	602	615	625	618	624	632	627	603	603	3 10	687	544 14 42	143	12 **
589	605	612	624	610	625	628	629	615	615	5 37	675	562 10 40	113	13 **
627	653	661	662	669	670	662	665	635	635	20 27	678	568 12 12	110	14
622	635	631	642	645	645	644	646	642	642	6 42	694	591 10 6	103	15
644	653	653	651	658	661	648	644	637	637	0 27	684	587 11 25	97	16 *
630	648	640	649	644	648	649	650	640	640	19 54	673	596 14 6	77	17
641	653	656	655	621	628	628	643	641	641	15 57	685	590 13 20	95	18
631	600	608	631	639	632	615	632	625	625	20 28	663	560 12 46	103	19 **
636	656	651	648	644	635	614	634	635	635	0 9	689	605 10 53	84	20 **
662	664	636	643	646	650	663	630	640	640	22 18	688	593 10 23	95	21
638	642	645	649	657	660	653	660	627	627	24 0	686	578 11 33	108	22
648	645	639	659	659	657	652	654	640	640	20 3	695	569 10 18	126	23
659	693	647	641	644	644	638	643	646	646	17 12	726	614 10 52	112	24
712	678	670	678	686	684	684	670	652	652	16 42	736†	599 13 11	137	25
666	626	652	652	649	658	650	658	656	656	14 59	684	616 12 10	68	26
642	648	664	660	666	660	669	657	645	645	22 18	692	599 12 0	93	27
662	656	660	660	665	669	662	659	650	650	17 7	692	608 10 48	84	28 *
668	664	657	672	672	674	671	682	657	657	23 6	686	613 13 47	73	29 *
658	653	638	639	634	643	639	640	648	648	17 8	699	586 13 52	113	30
646	662	662	668	663	658	655	653	644	644	19 59	680	599 12 27	81	31
643	646	645	652	651	651	648	650	640	640	-	688	595 -	93.1	Mean
654	656	657	661	664	665	660	663	650	650	-	686	615 -	71.4	Mean *
618	619	625	636	631	633	632	635	623	623	-	683	575 -	107.8	Mean **
18000 γ + Tabular Quantities (in γ)														
										h m	h m		γ	
658	659	671	676	682	656	653	658	645	645	20 20	706	597 10 53	109	1
645	664	678	670	663	654	646	637	644	644	17 57	703	575 10 59	128	2 **
650	660	667	673	684	668	664	665	649	649	20 44	713	608 11 55	105	3
654	665	670	636	636	646	659	647	648	648	18 28	707	603 11 17	104	4 **
618	638	645	655	661	663	657	643	628	628	20 36	666	575 11 42	91	5
634	639	655	656	661	653	663	681	642	642	23 18	699	589 10 52	110	6
636	649	674	663	657	662	663	656	640	640	18 45	683	589 10 23	94	7
657	655	653	668	673	664	660	658	644	644	20 43	684	593 11 50	91	8
663	673	678	677	667	653	647	654	653	653	19 31	682	617 11 17	65	9
663	668	666	674	683	683	676	676	655	655	21 2	690	612 11 40	78	10 *
665	667	675	679	683	685	678	682	667	667	21 38	704	619 11 54	85	11 *
678	687	684	687	683	687	685	685	677	677	17 26	697	649 12 53	48	12 *
675	678	678	685	680	682	683	683	673	673	2 2	688	647 11 51	41	13 *
674	663	681	671	672	669	667	667	671	671	16 1	704	636 11 7	68	14
654	668	678	671	680	665	658	668	655	655	20 48	702	610 12 34	92	15
653	673	659	682	680	658	654	686	654	654	20 2	708	604 11 16	104	16 **
664	668	681	677	652	650	665	649	645	645	18 37	705	593 13 57	112	17 **
671	666	675	667	661	638	629	654	633	633	18 21	717	572 11 58	145	18 **
656	669	661	687	677	657	669	666	647	647	19 46	702	591 10 17	111	19
659	673	672	677	674	694	678	657	656	656	21 52	712	624 12 46	88	20
677	685	668	667	672	687	697	659	664	664	22 8	710	634 12 7	76	21
658	664	668	669	675	673	669	668	657	657	20 37	677	626 11 40	51	22 *
679	654	657	673	677	673	667	672	664	664	16 18	688	645 11 53	43	23
663	654	672	677	678	675	674	674	655	655	2 53	688	627 13 36	61	24
675	675	679	683	683	683	683	683	668	668	2 42	708	631 13 46	77	25
693	673	698	691	684	684	676	676	672	672	18 23	727†	644 12 3	83	26
674	694	694	685	679	678	667	662	664	664	18 24	704	632 11 36	72	27
647	654	690	671	660	661	662	652	649	649	18 47	696	603 14 38	93	28
665	658	677	691	688	677	671	659	646	646	20 1	702	583 11 10	119	29
683	681	683	683	680	678	679	655	657	657	22 2	705	595 10 58	110	30
661	666	673	674	673	669	667	664	654	654	-	699	611 -	88.5	Mean
668	673	674	679	681	682	678	679	666	666	-	691	631 -	60.6	Mean *
657	667	673	666	658	649	651	655	645	645	-	708	589 -	118.6	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
MAY																	
18000 γ + Tabular Quantities (in γ)																	
1	653	669	658	645	650	654	651	647	639	623	625	618	612	619	629	650	
2	657	671	678	672	667	649	647	644	642	633	617	604	596	603	619	644	
3	662	664	659	660	656	660	657	650	640	630	623	612	617	630	646	656	
4	691	667	660	662	666	674	666	655	650	640	624	614	614	629	650	667	
5	663	671	669	658	658	661	657	648	644	634	628	628	634	642	655	657	
6	671	673	658	656	658	661	665	665	653	640	629	624	623	626	640	644	
7 *	676	672	667	672	672	674	679	681	669	664	657	652	640	644	645	653	
8	689	691	691	688	687	687	685	685	679	670	669	669	666	668	676	652	
9	676	676	677	682	686	690	684	682	668	663	656	658	663	660	673	675	
10	678	672	666	670	676	675	675	660	665	667	656	640	632	642	648	662	
11	667	668	670	672	672	672	665	644	639	636	645	652	647	640	644	654	
12	676	676	674	675	678	676	672	662	654	649	645	645	646	663	673	675	
13 **	671	655	662	664	664	667	665	660	657	656	644	642	644	646	680	687	
14 **	671	660	636	646	655	654	634	616	615	622	610	616	625	627	635	661	
15	675	670	658	663	667	637	644	627	624	624	627	625	624	632	645	664	
16	661	673	658	653	649	653	650	645	632	611	615	617	623	639	655	670	
17	665	669	669	675	669	671	661	651	649	649	639	635	627	626	650	661	
18	673	665	672	657	661	659	653	643	640	638	619	623	636	647	655	670	
19	666	661	664	665	663	664	670	658	646	633	623	611	623	640	651	675	
20 *	673	680	671	668	671	670	662	653	639	621	612	615	630	645	661	673	
21	683	692	674	665	669	666	663	653	641	626	614	611	618	627	648	669	
22 *	683	682	678	676	682	683	677	664	653	643	638	638	639	641	650	677	
23 *	693	679	677	683	683	685	679	671	663	661	661	657	657	661	671	689	
24 *	690	690	690	691	693	695	692	687	676	660	646	643	647	663	665	671	
25	688	692	688	690	690	692	685	672	668	662	664	664	659	664	675	689	
26 **	697	691	658	667	678	674	671	660	643	629	630	639	633	634	703	691	
27	658	658	662	652	649	643	633	623	623	626	631	615	610	632	651	645	
28	647	640	667	665	657	649	643	637	634	633	634	635	633	639	651	676	
29 **	716	707	670	650	676	669	640	626	599	583	567	598	607	619	595	615	
30	657	645	639	654	659	657	646	637	639	627	624	622	620	619	622	632	
31 **	654	657	653	653	658	663	653	646	635	617	611	612	623	638	620	641	
Mean	674	672	667	666	668	667	662	653	646	638	632	630	631	639	651	663	
Mean *	683	681	677	678	680	681	678	671	660	650	643	641	643	651	658	673	
Mean **	682	674	656	656	666	665	653	642	630	621	612	621	626	633	647	659	
JUNE																	
18000 γ + Tabular Quantities (in γ)																	
1 **	594	612	592	620	614	617	617	606	595	584	582	590	592	593	597	615	
2	642	644	660	640	654	661	636	619	622	613	620	600	590	597	617	622	
3 *	660	659	653	652	653	653	647	636	624	612	602	600	601	616	628	641	
4 *	673	681	682	682	683	683	674	666	654	643	627	623	623	632	641	652	
5	681	680	679	680	682	683	679	664	660	647	642	632	629	640	656	678	
6	685	686	683	684	687	676	675	656	652	651	652	655	654	653	655	660	
7 **	665	660	634	630	623	618	612	591	520	509	527	584	605	593	602	640	
8	661	661	660	661	662	660	651	636	625	630	635	634	638	636	636	647	
9	664	674	676	674	675	665	644	644	648	644	638	632	644	638	660	682	
10	622	616	624	631	636	637	626	614	608	602	602	614	618	644	632	648	
11	659	675	661	640	652	656	646	629	614	607	605	611	624	630	628	644	
12	671	672	676	675	665	675	665	647	632	635	627	631	639	638	642	665	
13	675	675	674	670	665	669	664	650	646	638	634	645	657	661	662	663	
14	679	680	673	672	672	672	668	665	656	652	660	666	670	664	660	663	
15	673	675	672	671	690	691	697	674	663	653	642	642	652	652	649	642	
16	671	674	670	669	666	661	648	643	641	639	641	641	652	659	647	658	
17 *	672	665	663	663	662	673	670	654	643	644	647	649	651	661	671	673	
18 *	683	683	686	685	688	685	674	664	655	650	649	658	669	668	663	679	
19	685	685	685	683	689	690	682	675	665	653	643	641	638	649	667	675	
20 *	689	694	688	691	691	687	682	677	671	662	655	653	654	653	663	673	
21 **	691	691	700	705	673	663	672	664	659	659	669	614	611	644	681	667	
22	640	657	646	651	679	664	619	599	609	603	597	601	623	614	617	639	
23	661	657	663	663	651	660	651	639	628	621	624	628	623	629	644	644	
24	687	694	681	670	657	659	655	632	634	625	625	639	635	633	631	641	
25	672	669	671	682	682	669	651	644	627	614	621	650	660	651	654	648	
26	664	666	671	671	675	671	664	655	642	632	629	641	645	653	667	668	
27	684	672	671	678	681	682	674	662	650	643	633	631	638	643	652	672	
28 **	666	669	673	692	682	684	666	656	657	650	628	622	646	653	666	669	
29 **	572	575	618	633	614	552	613	573	540	512	523	509	518	540	601	610	
30	660	655	659	659	654	652	640	627	612	601	596	601	608	618	632	652	
Mean	663	665	665	666	665	662	655	642	632	624	623	625	630	635	644	654	
Mean *	675	676	674	675	675	676	669	659	649	642	636	637	640	646	653	664	
Mean **	638	641	643	656	641	627	636	618	594	583	586	584	594	605	629	640	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
18000 γ + Tabular Quantities (in γ)													MAY	
									h m		h m		γ	
679	674	704	685	675	669	676	662	653	18 30	721	604	10 57	117	1
659	667	677	685	688	667	669	668	651	20 12	700	595	12 25	105	2
667	678	680	681	690	676	675	678	656	20 20	694	604	11 52	90	3
674	680	682	677	683	684	672	670	660	0 2	701	610	12 10	91	4
681	695	698	691	687	691	677	670	662	17 59	714	625	10 29	89	5
664	673	674	681	684	682	679	675	658	20 40	686	620	12 18	66	6
664	673	677	684	693	693	695	689	670	22 31	699	637	12 30	62	7 *
657	673	683	694	697	703	695	674	680	21 55	709	644	15 12	65	8
674	674	678	670	673	677	675	677	674	5 29	693	647	11 36	46	9
647	679	684	702	677	675	676	667	666	19 20	720	623	12 31	97	10
673	693	694	686	677	674	675	676	664	18 0	698	630	9 8	68	11
696	705	694	708	688	677	680	677	674	17 9	733	642	12 16	91	12
692	704	691	700	680	664	669	664	668	17 12	720	633	10 45	87	13 **
675	680	685	699	675	665	656	664	649	19 18	713	603	10 30	110	14 **
706	725	723	677	652	660	675	671	658	18 31	740	614	12 14	126	15
708	689	671	669	675	669	671	673	655	16 39	717	605	9 29	112	16
682	693	703	685	675	679	691	700	666	18 49	718	606	13 12	112	17
713	713	691	679	671	671	674	675	662	16 50	732	612	10 42	120	18
689	695	697	693	679	683	669	665	662	18 16	703	609	11 31	94	19
687	693	686	679	678	676	680	686	663	17 19	695	608	10 50	87	20 *
677	689	685	682	682	683	683	683	662	1 32	697	611	11 20	86	21
686	686	690	695	695	696	696	695	673	21 58	698	633	11 39	65	22 *
699	697	695	689	696	694	691	691	680	18 11	701	653	12 41	48	23 *
680	688	691	690	692	690	690	688	680	5 20	696	642	11 54	54	24 *
697	717	733	725	717	723	703	701	690	18 7	747	658	12 33	89	25
714	671	665	673	670	672	676	661	667	14 43	733	606	13 15	127	26 **
660	679	697	691	684	683	679	670	652	22 22	710	596	12 36	114	27
667	678	698	696	689	683	675	683	659	18 18	705	626	10 5	79	28
609	666	662	656	665	661	658	656	640	1 2	749	553	10 38	196	29 **
652	679	679	681	683	684	673	665	650	21 20	694	613	13 30	81	30
665	755	731	690	653	646	615	585	649	17 4	809 [†]	†544	23 56	265	31 **
677	689	690	687	681	679	676	673	663	-	714	616	-	98.0	Mean
683	687	688	687	691	690	690	690	673	-	698	635	-	63.2	Mean *
671	695	687	684	669	662	655	646	655	-	745	588	-	157.0	Mean **
18000 γ + Tabular Quantities (in γ)													JUNE	
									h m		h m		γ	
650	678	674	684	679	659	650	662	623	20 16	694	542	0 37	152	1 **
622	642	646	654	658	661	661	661	635	2 10	677	573	11 42	104	2
660	655	680	680	683	682	676	672	647	20 29	685	593	12 19	92	3 *
665	672	688	690	685	683	682	681	665	18 20	692	619	11 43	73	4 *
702	681	684	684	686	689	685	686	671	16 28	722	622	12 46	100	5
671	697	712	711	719	704	696	662	677	20 22	725	639	7 54	86	6
642	634	641	662	672	667	671	666	620	0 49	720	†486	9 28	234	7 **
666	684	708	705	684	679	685	679	659	19 6	723	623	9 1	100	8
683	662	705	710	703	696	668	640	665	18 43	724	619	11 44	105	9
639	662	672	676	680	678	674	660	638	22 2	707	592	10 21	115	10
664	653	684	682	692	688	673	668	649	20 49	702	599	10 32	103	11
662	688	695	700	700	692	684	678	665	19 17	710	618	10 51	92	12
676	698	689	686	693	684	676	678	668	17 39	704	632	10 31	72	13
667	673	705	730	704	694	702	693	677	18 33	752	650	9 59	102	14
654	663	665	678	683	681	674	673	667	6 12	721	632	11 1	89	15
657	669	683	679	681	679	672	671	661	18 51	689	631	9 15	58	16
675	676	682	690	693	692	685	682	668	20 28	699	641	8 37	58	17 *
682	698	710	711	704	693	687	687	680	19 30	720	644	10 5	76	18 *
711	699	690	707	693	695	691	688	678	17 13	723	637	11 45	86	19
685	699	709	703	704	710	713	685	683	22 32	721	649	13 31	72	20 *
659	729	715	707	669	653	643	641	670	17 40	780	564	11 42	216	21 **
645	653	664	693	691	691	683	673	644	19 59	707	581	10 13	126	22
659	680	687	685	691	683	681	681	656	20 5	700	619	10 29	81	23
667	671	689	697	692	695	689	672	661	21 10	705	616	9 21	89	24
671	704	710	710	690	673	682	674	666	19 41	721	604	10 11	117	25
687	705	689	689	687	688	689	685	668	17 32	712	624	10 40	88	26
673	680	690	701	708	695	678	668	669	20 37	711	625	11 26	86	27
690	710	790	760	717	700	638	591	674	18 22	832 [†]	579	23 37	253	28 **
600	623	625	633	650	651	656	657	592	3 40	670	493	9 52	177	29 **
660	671	676	672	682	682	678	676	647	18 13	699	591	10 14	108	30
665	677	689	692	689	684	677	670	658	-	715	605	-	110.3	Mean
673	680	694	695	694	692	689	681	669	-	703	629	-	74.2	Mean *
648	675	689	689	677	666	652	643	636	-	739	533	-	206.4	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
JULY																	
18000 γ + Tabular Quantities (in γ)																	
1	672	661	642	664	658	659	659	668	650	628	616	613	617	621	620	650	
2 *	661	661	662	661	668	669	665	659	641	630	620	621	630	640	660	670	
3	680	671	667	666	668	667	660	660	660	658	648	634	630	631	634	660	
4	677	671	672	675	679	680	680	661	632	630	622	629	651	659	670	651	
5	662	669	668	665	670	672	670	660	661	666	663	652	654	645	638	654	
6 *	680	682	684	676	671	671	662	653	651	645	640	641	648	651	656	664	
7	681	682	680	680	680	684	686	679	671	660	650	654	671	671	658	682	
8 **	677	669	665	676	672	677	660	621	527	649	622	540	666	692	786	1020	
9 **	480	509	507	506	515	522	517	497	516	520	510	508	518	517	517	565	
10	621	612	618	631	617	612	618	606	590	587	586	590	601	620	626	634	
11	652	637	643	640	641	639	632	624	611	596	587	594	614	618	628	630	
12	688	674	676	664	654	654	649	634	609	612	618	628	635	636	638	657	
13	663	661	653	653	662	666	656	653	643	632	619	618	631	642	647	658	
14	687	680	677	680	689	681	666	646	622	622	629	641	643	641	645	653	
15 *	659	653	657	661	669	670	667	658	641	630	631	636	639	645	657	659	
16 *	672	659	658	666	662	669	659	655	645	636	637	643	647	650	653	668	
17	669	671	679	682	686	689	685	661	650	642	638	639	642	652	660	672	
18 **	670	672	679	689	688	672	661	631	651	649	656	651	629	657	638	646	
19	662	661	660	659	662	669	650	609	638	636	637	630	624	629	644	655	
20	657	670	663	649	650	647	659	639	620	615	613	603	603	613	621	659	
21 **	669	672	665	664	669	665	669	655	643	635	627	622	637	642	645	652	
22	675	675	679	679	671	672	670	653	640	621	621	631	653	658	629	635	
23 *	669	668	667	668	669	667	661	658	649	647	642	642	642	645	641	652	
24	678	675	680	665	667	671	669	667	657	646	637	637	651	637	667	686	
25	677	678	679	681	679	676	661	644	645	631	628	615	633	651	652	661	
26	649	657	671	663	660	653	641	621	609	605	607	621	631	637	640	653	
27 **	673	677	682	687	689	697	671	644	629	640	643	631	637	633	663	683	
28	644	641	663	656	665	665	662	642	617	609	610	610	613	621	638	655	
29	676	673	677	673	671	669	661	659	649	637	630	628	640	651	660	670	
30	687	680	686	683	688	688	683	677	669	658	645	635	622	621	637	648	
31	679	677	671	673	677	676	661	651	645	637	630	621	620	627	639	677	
Mean	663	661	662	662	663	663	657	643	632	629	625	621	631	637	645	667	
Mean *	668	665	666	666	668	669	663	657	645	638	634	637	641	646	653	663	
Mean **	634	640	640	644	647	647	636	610	593	619	612	590	617	628	650	713	
AUGUST																	
18000 γ + Tabular Quantities (in γ)																	
1	677	673	675	669	674	675	668	658	649	642	635	608	616	639	647	653	
2	681	678	670	676	672	676	668	657	639	636	637	643	628	638	635	651	
3	689	694	685	673	677	660	660	653	640	637	631	628	636	638	655	659	
4 *	676	677	678	678	674	675	668	655	645	632	619	618	621	629	641	658	
5 *	682	679	679	679	680	679	668	656	647	638	636	636	641	648	654	653	
6 *	685	683	680	681	685	683	678	670	661	646	641	647	653	659	669	682	
7	686	689	688	690	689	692	687	677	656	634	630	635	647	644	652	659	
8 *	680	683	678	684	685	680	670	658	647	638	629	631	640	659	656	655	
9	687	680	668	668	683	677	670	658	647	645	636	636	642	655	660	679	
10	685	680	688	683	687	687	677	684	676	666	647	634	643	651	659	675	
11	685	681	675	677	676	678	683	674	657	646	626	632	651	657	661	665	
12	681	677	676	677	669	667	669	658	644	630	629	640	648	655	657	664	
13	700	686	675	671	670	667	658	657	638	629	613	621	625	637	644	651	
14	675	675	676	677	675	672	661	648	628	621	623	625	637	647	659	672	
15	668	665	666	673	671	679	669	655	640	626	625	628	641	650	650	655	
16	697	699	669	666	675	672	662	647	629	620	617	625	638	659	650	673	
17 **	679	677	677	677	678	679	686	659	625	635	634	649	678	669	676	704	
18 **	641	647	650	635	639	627	628	625	616	609	594	598	597	610	620	636	
19	667	663	653	651	652	647	637	626	613	600	590	609	620	631	641	650	
20 *	678	678	672	670	667	664	659	650	637	631	624	618	621	643	657	670	
21	676	678	677	677	679	675	667	658	649	642	635	641	651	653	661	679	
22 **	686	685	720	715	701	669	650	663	649	634	624	609	611	623	647	675	
23	673	673	673	671	665	659	663	657	647	637	639	643	649	649	647	655	
24 **	679	704	725	667	604	616	627	609	597	589	593	607	592	613	651	649	
25	661	670	684	661	675	680	663	648	643	638	614	613	635	645	651	662	
26	670	669	669	663	656	668	655	631	627	607	586	587	601	621	627	639	
27 **	664	661	662	688	664	649	605	571	584	579	615	624	632	632	636	623	
28	647	648	650	651	655	653	651	630	615	603	599	607	617	628	635	641	
29	653	655	663	669	660	657	647	630	623	614	620	629	647	657	659	663	
30	675	668	676	676	677	667	662	652	638	628	629	637	656	674	653	666	
31	676	673	674	676	677	676	666	653	648	636	628	628	638	643	652	668	
Mean	676	676	676	673	671	668	661	649	637	628	623	625	634	644	650	661	
Mean *	680	680	677	678	678	676	669	658	647	637	630	630	635	648	655	664	
Mean **	670	675	687	676	657	648	639	625	614	609	612	617	622	629	646	657	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
18000 γ + Tabular Quantities (in γ)													JULY	
										h m		h m	γ	
650	661	680	684	688	679	670	669	653	20 18	690	603	12 7	87	1
672	690	700	693	694	690	679	680	663	19 58	708	618	10 20	90	2 *
700	698	691	681	687	683	680	680	666	16 49	722	623	12 50	99	3
697	701	699	689	688	679	671	662	668	16 51	730	609	10 59	121	4
670	678	682	689	691	703	690	684	669	21 50	709	625	14 10	84	5
681	688	691	689	689	689	688	682	670	18 14	695	638	10 20	57	6 *
677	694	732	708	699	702	694	685	682	18 38	755	636	11 3	119	7
1012	857	756	658	626	488	415	462	671	15 45	1167†	†180	21 11	987	8 **
609	637	623	620	621	634	653	646	553	22 40	666	479	14 8	187	9 **
640	647	668	662	660	662	667	658	626	22 24	685	579	10 34	106	10
646	646	658	682	688	681	666	666	638	20 10	700	580	10 59	120	11
658	682	666	672	677	670	670	666	654	0 37	701	582	9 11	119	12
679	682	670	671	670	673	692	688	658	17 2	713	610	11 6	103	13
671	658	679	679	670	669	669	662	661	0 0	692	614	9 0	78	14
662	675	683	681	675	681	675	668	660	18 44	687	628	9 40	59	15 *
683	682	681	681	678	677	674	671	663	16 52	691	636	10 25	55	16 *
669	667	669	674	677	678	675	672	667	0 59	700	628	9 49	72	17
687	685	698	684	682	693	686	683	668	16 41	719	609	14 50	110	18 **
674	677	685	707	687	672	663	661	656	19 49	718	594	7 34	124	19
689	667	664	672	683	681	677	676	650	16 21	704	590	13 4	114	20
705	762	778	755	681	693	701	671	674	19 31	840	616	11 4	224	21 **
664	665	677	686	681	677	671	671	661	19 10	696	612	10 20	84	22
662	669	678	676	675	679	677	673	662	19 0	683	635	12 10	48	23 *
678	723	672	689	682	685	687	673	670	17 36	740	629	13 21	111	24
682	699	709	695	670	672	669	671	665	18 40	729	608	11 30	121	25
665	667	680	688	693	681	675	672	652	20 20	697	599	9 40	98	26
696	701	709	687	676	657	657	653	667	18 40	725	611	13 17	114	27 **
669	673	680	682	691	691	681	686	653	20 40	700	608	9 25	92	28
681	681	699	690	698	685	682	688	668	18 48	731	621	11 11	110	29
695	693	692	687	687	685	677	678	671	17 7	716	617	12 46	99	30
719	721	696	691	681	687	690	688	668	16 3	738	617	11 48	121	31
685	688	689	684	679	673	668	666	658	-	727	595	-	132.7	Mean
672	681	687	684	682	683	679	675	663	-	693	631	-	61.8	Mean *
742	728	713	681	657	633	622	623	647	-	823	499	-	324.4	Mean **
18000 γ + Tabular Quantities (in γ)													AUGUST	
										h m		h m	γ	
657	668	681	698	680	682	679	678	662	19 19	710	593	12 9	117	1
670	682	688	700	690	686	686	691	666	19 40	707	618	14 10	89	2
667	678	678	670	674	675	677	673	663	1 37	700	622	11 30	78	3
681	688	688	686	687	687	687	684	664	18 6	690	611	12 8	79	4 *
668	672	687	689	688	689	690	688	668	19 51	694	630	11 29	64	5 *
686	687	688	696	700	697	688	682	676	21 22	703	639	9 59	64	6 *
675	691	692	697	686	684	679	680	672	18 2	707	622	12 58	85	7
670	686	688	689	692	690	690	688	669	20 1	696	627	11 29	69	8 *
687	680	689	695	703	687	677	679	670	20 51	707	632	11 31	75	9
691	679	685	706	699	703	696	696	678	19 30	719	627	11 29	92	10
678	677	677	696	699	698	698	688	672	22 20	707	618	11 6	89	11
670	677	686	694	706	705	696	696	670	20 39	717	620	10 28	97	12
660	671	687	685	682	680	677	675	661	0 21	716	600	10 39	116	13
687	702	697	691	697	695	695	692	668	17 32	710	619	9 14	91	14
677	686	688	697	690	689	688	688	665	19 3	702	618	11 2	84	15
693	667	690	697	689	686	680	680	666	19 0	715	613	10 9	102	16
731	779	735	681	646	619	621	610	671	17 51	847†	595	23 27	252	17 **
651	655	662	661	664	662	663	664	636	21 0	668	579	12 49	89	18 **
671	684	685	683	677	676	679	679	649	19 2	691	577	10 18	114	19
681	692	679	677	679	679	681	679	662	17 43	695	616	11 31	79	20 *
689	681	693	688	691	690	697	690	672	22 54	705	631	11 27	74	21
665	667	667	679	681	679	673	673	664	2 44	768	597	11 47	171	22 **
664	671	675	683	677	682	683	678	663	19 49	692	631	9 48	61	23
639	651	657	656	662	663	661	657	640	1 55	794	547	12 1	247	24 **
663	659	657	667	665	669	669	667	657	2 28	698	607	11 7	91	25
645	653	653	671	671	671	666	667	645	21 42	678	574	10 32	104	26
651	655	677	656	667	649	660	655	640	18 28	728	†546	7 24	182	27 **
654	675	671	680	665	667	662	660	644	18 59	688	596	10 29	92	28
663	662	661	673	682	675	676	685	655	23 49	697	607	10 6	90	29
666	667	672	675	685	689	682	676	664	21 2	692	627	9 57	65	30
673	656	668	676	678	678	677	677	662	5 5	680	623	11 8	57	31
672	677	681	684	682	680	678	677	662	-	710	608	-	101.9	Mean
677	685	686	687	689	688	687	684	668	-	696	625	-	71.0	Mean *
667	681	680	667	664	654	656	652	650	-	761	573	-	188.2	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
SEPTEMBER																	
18000 γ + Tabular Quantities (in γ)																	
1	675	674	671	670	670	668	664	647	635	628	636	651	666	679	679	672	
2	683	677	676	675	675	676	675	666	652	642	632	631	638	636	652	655	
3 **	684	679	674	674	678	682	674	667	659	636	627	640	633	656	634	637	
4 **	609	607	620	638	646	644	634	625	617	614	612	603	609	633	650	719	
5 **	466	542	524	538	546	554	560	548	550	548	539	548	550	564	564	578	
6	628	623	624	624	627	632	625	622	615	602	584	570	578	595	612	618	
7	654	656	655	654	654	650	643	642	630	618	602	606	610	625	639	639	
8	647	654	679	635	640	644	643	636	628	616	608	616	628	640	644	656	
9	664	667	656	654	657	659	656	646	639	630	620	622	630	660	654	638	
10	660	668	666	662	664	658	652	642	633	622	616	622	624	637	634	650	
11	667	670	672	673	668	664	658	646	641	626	610	615	626	637	649	654	
12	677	667	675	676	668	667	659	649	636	628	631	636	638	642	649	657	
13 *	675	675	675	677	679	677	674	666	652	633	625	627	640	657	666	675	
14 *	678	678	678	679	679	681	675	666	655	633	631	639	653	660	667	675	
15	685	683	682	683	685	683	677	668	651	629	619	626	643	661	667	675	
16 **	702	691	687	688	699	703	682	662	648	639	638	651	668	688	662	668	
17	655	669	652	655	651	643	641	630	613	599	602	605	612	620	637	638	
18 *	671	671	669	665	663	658	653	645	632	624	624	627	635	645	649	654	
19	677	675	675	675	675	675	674	668	656	639	631	635	641	648	656	663	
20	686	683	681	686	685	682	678	676	667	655	643	641	644	654	663	671	
21 *	682	682	682	681	681	680	678	674	668	658	647	648	646	654	663	670	
22 *	685	682	682	684	684	684	682	680	672	661	650	642	647	655	664	670	
23	686	684	687	690	683	685	689	687	678	666	654	654	660	664	666	668	
24	701	689	689	689	687	687	684	676	668	664	654	648	656	658	664	666	
25 **	689	680	681	688	686	707	642	657	632	616	613	586	575	588	613	613	
26	625	623	629	649	638	633	643	625	616	615	595	590	587	587	589	604	
27	654	652	654	653	653	653	649	644	635	621	601	597	604	614	625	635	
28	662	655	664	667	663	656	664	644	645	634	615	617	624	626	637	635	
29	673	673	674	674	674	672	669	672	665	646	625	615	618	632	645	655	
30	673	676	674	675	676	679	680	680	672	654	644	638	632	634	637	650	
Mean	662	664	664	664	664	665	659	653	642	630	621	622	627	638	644	652	
Mean *	678	678	677	677	677	676	672	666	656	642	635	637	644	654	662	669	
Mean **	630	640	637	645	651	658	638	632	621	611	606	606	607	626	625	643	
OCTOBER																	
18000 γ + Tabular Quantities (in γ)																	
1	666	664	665	667	672	686	690	682	668	650	628	618	617	628	643	652	
2	660	652	657	658	674	662	657	661	660	645	627	625	626	630	644	652	
3	674	673	674	686	682	679	680	663	646	633	624	626	627	644	655	660	
4 *	676	675	676	676	674	676	678	675	666	654	642	636	640	646	650	652	
5	683	664	666	671	673	671	670	671	663	649	635	630	629	646	663	669	
6	675	675	673	675	671	679	675	674	669	656	645	643	645	653	657	673	
7	679	679	683	685	685	675	676	686	677	654	644	635	631	640	650	660	
8	670	681	671	663	676	663	671	665	651	647	635	631	631	634	642	652	
9 *	678	675	675	683	677	676	675	674	668	655	637	632	633	639	652	662	
10 *	682	680	681	681	682	682	682	681	672	655	644	636	637	644	654	669	
11 *	685	677	678	679	681	679	680	676	669	655	646	636	633	641	651	666	
12 *	682	682	683	684	685	685	685	681	671	655	640	635	643	653	659	670	
13	689	689	688	691	693	692	697	697	689	663	650	641	647	651	663	666	
14	685	683	682	684	691	690	690	684	672	654	636	634	645	654	662	671	
15	685	678	680	683	686	686	689	690	678	658	642	640	651	660	670	673	
16	689	686	691	684	691	679	673	673	660	639	631	628	634	648	658	665	
17	688	681	682	682	689	686	675	666	654	639	629	625	630	643	655	666	
18	686	684	684	688	680	684	678	672	656	640	628	631	635	649	660	670	
19	686	685	684	684	685	685	684	681	670	655	644	637	630	644	663	673	
20	694	685	682	679	677	680	681	677	667	651	639	636	639	649	661	669	
21	687	685	685	695	691	685	685	677	667	656	651	643	639	645	655	656	
22 **	687	689	687	701	713	687	686	654	635	631	620	613	603	605	617	636	
23 **	631	639	646	660	651	647	656	635	611	602	597	577	576	575	593	594	
24 **	629	635	622	655	662	657	635	612	583	559	530	524	523	537	543	561	
25	597	604	604	606	611	616	620	625	616	596	579	574	575	585	594	606	
26	646	646	647	651	653	659	655	655	641	635	619	609	603	613	619	625	
27 **	647	646	653	657	655	665	659	661	652	643	636	629	627	635	635	647	
28 **	638	627	627	631	637	647	654	671	657	631	618	627	617	621	621	621	
29	647	633	630	636	645	647	648	655	644	632	616	614	614	616	625	629	
30	662	658	648	649	655	660	659	664	649	636	619	608	612	619	630	638	
31	663	663	663	665	675	672	673	674	669	650	635	624	637	639	648	663	
Mean	669	667	667	671	673	672	671	668	656	641	628	622	624	632	642	651	
Mean *	681	678	679	681	680	680	680	677	669	655	642	635	637	645	653	664	
Mean **	646	647	647	661	664	661	658	647	628	613	600	594	589	595	602	612	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
18000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
667	663	674	678	685	686	686	685	667	13 17	686	626	9 50	60	1
663	674	680	686	689	689	688	689	667	20 35	692	627	10 51	65	2
676	689	680	669	671	628	622	614	658	20 55	731	578	14 52	153	3 **
841	776	710	569	526	439	468	504	621	16 51	927†	†372	22 17	555	4 **
599	619	640	628	633	629	634	638	572	18 41	674	436	1 1	238	5 **
630	641	649	647	650	653	653	656	623	23 20	659	566	11 30	93	6
644	658	654	662	686	650	646	647	643	20 11	698	598	10 34	100	7
648	660	662	669	669	679	721	664	649	22 35	740	603	10 37	137	8
648	661	664	656	662	657	674	675	652	22 42	704	606	10 49	98	9
667	668	668	669	670	674	668	690	654	23 19	699	612	10 2	87	10
658	664	675	678	676	677	674	675	656	20 1	686	606	10 52	80	11
667	673	676	678	677	678	678	677	661	0 20	684	626	9 27	58	12
676	676	678	682	688	685	685	683	668	20 52	691	621	10 58	70	13 *
683	687	681	688	683	685	686	683	671	19 30	693	627	10 11	66	14 *
683	693	693	693	695	698	702	705	674	18 2	713	615	10 16	98	15
708	673	661	654	649	656	650	639	669	16 18	723	625	11 1	98	16 **
645	653	663	671	671	672	671	673	643	1 12	685	594	9 30	91	17
661	665	672	677	677	673	677	678	657	19 50	685	622	9 50	63	18 *
671	676	679	687	687	682	683	685	667	20 8	693	625	10 56	68	19
677	681	687	691	688	687	687	682	674	20 15	695	638	11 40	57	20
679	684	686	686	686	686	686	687	674	19 4	695	641	12 24	54	21 *
675	682	687	690	688	686	688	686	675	18 47	694	639	11 29	55	22 *
671	674	680	687	692	692	690	690	678	3 4	693	652	10 32	41	23
667	676	684	686	688	688	690	697	677	0 10	709	644	11 9	65	24
591	607	614	615	624	629	632	627	634	5 33	716	559	13 6	157	25 **
622	627	636	646	652	653	655	664	625	23 42	676	579	14 16	97	26
642	653	656	663	663	663	654	665	642	23 41	684	594	11 29	90	27
646	662	667	669	673	673	673	673	653	21 11	674	613	10 52	61	28
663	667	673	675	676	675	676	674	661	20 30	677	614	12 10	63	29
657	660	651	658	665	662	648	663	660	1 29	680	618	18 44	62	30
664	668	669	667	668	663	665	666	654	-	702	590	-	102.7	Mean
675	679	681	685	684	683	684	683	669	-	692	630	-	61.6	Mean *
683	673	661	627	621	596	601	604	631	-	754	514	-	240.2	Mean **

18000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
662	666	670	682	671	662	672	686	661	23 16	721	614	12 31	107	1
656	664	672	673	676	675	703	681	658	22 17	715	623	11 21	92	2
654	645	634	645	664	673	674	676	658	5 58	693	616	10 32	77	3
662	665	672	675	676	681	684	684	666	22 31	688	634	11 39	54	4 *
668	683	673	679	669	673	666	672	664	0 23	694	615	12 7	79	5
677	678	675	684	683	670	673	681	669	20 18	692	636	11 45	56	6
656	660	665	662	673	681	665	657	665	4 42	691	623	12 51	68	7
662	668	674	675	675	677	681	680	661	1 35	690	624	12 32	66	8
673	680	683	683	682	681	682	682	668	18 56	686	631	11 52	55	9 *
675	683	680	685	682	685	685	686	672	19 45	689	632	11 44	57	10 *
673	683	691	691	684	699	695	685	672	21 51	708	631	12 11	77	11 *
677	684	691	695	693	693	691	691	675	19 30	698	634	11 39	64	12 *
667	673	672	684	691	693	694	689	678	6 41	702	634	11 20	68	13
671	681	688	692	694	694	686	689	676	21 32	698	630	11 40	68	14
672	679	689	689	685	691	691	690	676	7 0	697	633	11 47	64	15
671	678	682	688	685	687	689	690	671	2 20	693	624	11 32	69	16
670	688	685	684	682	688	692	698	670	23 14	703	622	11 28	81	17
670	674	680	684	688	684	689	690	670	3 3	702	625	10 20	77	18
669	659	665	673	675	681	679	680	670	0 11	689	625	12 23	64	19
675	679	685	685	687	689	695	691	673	0 27	704	633	11 10	71	20
664	673	673	681	683	682	682	685	672	3 18	701	636	12 41	65	21
637	615	619	619	599	609	616	616	641	4 9	723†	583	20 46	140	22 **
608	606	601	593	609	615	621	617	615	3 38	681	570	14 2	111	23 **
573	591	585	589	570	573	582	573	588	4 48	664	†511	12 50	153	24 **
621	632	637	637	641	643	645	644	613	23 59	648	570	11 12	78	25
625	636	633	645	642	633	638	644	636	19 59	668	597	12 36	71	26
651	651	634	591	577	609	610	634	638	5 20	672	542	20 58	130	27 **
613	635	638	622	643	646	660	651	636	7 43	702	594	19 10	108	28 **
636	655	664	659	659	662	643	659	640	23 33	684	607	11 50	77	29
645	644	642	655	669	660	665	664	646	0 31	675	601	11 46	74	30
662	674	675	681	678	683	685	687	664	22 22	692	616	11 32	76	31
655	661	662	664	664	667	669	669	657	-	692	612	-	80.5	Mean
672	679	683	686	683	688	687	686	671	-	694	632	-	61.4	Mean *
616	620	615	603	600	610	618	618	623	-	688	560	-	128.4	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
NOVEMBER																	
18000 γ + Tabular Quantities (in γ)																	
1	680	676	676	673	676	679	682	680	664	645	643	640	642	656	670	684	
2 **	680	679	675	677	680	682	685	684	680	669	658	661	664	664	668	665	
3 **	662	654	660	668	660	646	650	655	658	649	638	637	637	632	649	653	
4	673	669	665	661	670	670	662	665	660	650	648	653	651	652	663	665	
5 *	676	678	676	676	676	675	672	670	666	657	647	643	649	657	661	663	
6 *	680	680	680	680	682	681	680	676	668	658	651	651	658	666	671	671	
7	682	681	680	680	680	682	681	679	672	662	651	650	650	655	656	651	
8 *	680	680	680	681	683	688	688	685	672	653	637	631	637	643	656	662	
9	680	681	681	685	691	698	701	694	681	668	650	643	648	654	662	671	
10 **	699	696	698	700	702	711	720	719	707	681	651	635	643	640	641	656	
11 **	671	678	652	650	658	681	681	670	660	652	634	624	622	632	648	660	
12	672	671	673	671	670	680	681	680	679	670	658	652	650	659	646	660	
13	674	664	669	676	679	681	678	672	668	659	650	651	656	659	660	661	
14	683	681	681	677	680	683	681	679	672	662	654	649	651	660	666	669	
15	681	678	681	683	682	685	686	686	676	668	662	652	650	655	665	672	
16	689	681	686	687	689	692	692	685	677	673	659	650	641	644	655	657	
17	686	683	687	685	686	691	682	688	672	667	660	654	654	665	667	669	
18	687	687	687	687	689	689	691	688	674	665	656	651	649	657	660	661	
19	678	679	680	680	682	681	681	683	681	669	659	651	650	652	652	658	
20	679	680	684	690	688	688	688	682	679	672	667	655	654	661	664	664	
21	687	691	689	691	696	697	694	688	683	679	669	660	661	669	672	670	
22 *	687	687	683	683	688	689	689	688	687	676	664	660	659	665	674	678	
23	690	687	687	690	695	698	699	698	693	698	689	679	667	661	660	666	
24	683	685	686	687	688	689	688	686	676	666	660	661	654	638	641	650	
25	677	677	676	682	687	689	689	686	686	678	672	668	666	668	666	658	
26	650	657	665	658	660	667	668	668	668	665	654	647	647	648	648	646	
27	670	675	677	677	676	688	677	677	680	670	649	647	651	656	650	654	
28 **	665	676	683	698	693	673	681	685	690	678	664	657	647	641	659	664	
29	671	677	688	679	685	693	687	687	676	666	664	655	644	645	645	635	
30 *	675	676	674	673	671	672	675	673	670	668	665	664	663	667	668	668	
Mean	678	678	679	680	681	684	684	682	676	666	656	651	651	654	659	662	
Mean *	680	680	679	679	680	681	681	678	673	662	653	650	653	660	666	668	
Mean **	675	677	674	679	679	679	683	683	679	666	649	643	643	642	653	660	
DECEMBER																	
18000 γ + Tabular Quantities (in γ)																	
1 *	684	684	683	680	682	685	686	684	679	675	668	668	670	673	675	676	
2	687	686	684	682	680	678	678	684	685	684	674	657	654	646	639	644	
3	661	655	660	658	662	664	659	658	659	657	655	650	652	657	660	665	
4 **	685	695	686	687	688	695	689	694	684	653	638	648	639	623	615	604	
5 **	617	582	566	574	581	582	584	593	596	598	597	602	597	602	608	617	
6	642	643	647	655	658	659	656	655	651	641	623	627	637	628	630	631	
7 *	656	661	666	670	677	681	673	661	658	653	647	647	648	647	651	655	
8	672	675	676	676	676	677	677	674	672	668	660	657	662	665	659	656	
9	672	658	649	649	658	661	668	665	664	657	653	649	656	658	667	670	
10 *	676	672	673	670	668	667	669	667	659	656	656	658	662	670	675	672	
11	684	685	679	679	687	685	686	684	685	684	680	675	669	672	669	673	
12 *	680	678	679	671	676	678	680	679	678	677	673	668	668	671	669	669	
13 **	689	668	682	675	667	677	677	685	689	688	686	685	686	663	628	634	
14	628	630	639	645	652	643	647	652	650	648	645	640	642	632	622	611	
15	655	657	657	659	664	666	666	666	666	666	667	661	657	660	660	660	
16	687	683	685	664	675	687	679	683	682	676	684	688	672	669	669	656	
17 **	679	679	679	679	682	686	689	687	682	676	670	677	675	673	668	667	
18 **	615	609	618	626	634	637	634	636	642	643	631	625	628	634	633	638	
19	654	668	653	663	638	647	661	662	654	624	632	633	626	623	633	629	
20	666	670	665	670	680	688	686	674	661	653	650	646	656	655	653	659	
21	673	669	676	676	678	676	675	671	661	658	648	646	646	657	656	655	
22	668	681	675	674	679	685	684	684	676	664	655	656	657	664	657	661	
23	676	675	676	677	685	687	694	697	685	676	670	664	656	656	649	661	
24	674	676	674	672	675	677	677	675	672	668	666	660	655	652	662	670	
25 *	680	681	681	682	685	687	689	689	686	678	666	667	668	672	671	670	
26	688	686	685	678	685	687	688	688	685	675	668	675	677	661	673	676	
27	668	674	673	675	684	680	683	674	667	656	646	643	653	655	660	668	
28	682	674	673	669	676	684	693	684	683	674	666	666	666	669	661	649	
29	686	675	668	668	670	677	675	675	673	666	664	667	666	667	666	674	
30	667	670	675	672	674	676	683	677	673	665	666	674	669	675	685	677	
31	676	687	678	675	677	683	684	681	676	670	666	663	659	665	676	679	
Mean	669	667	666	666	669	672	673	672	669	662	657	656	656	655	655	656	
Mean *	675	675	676	675	678	680	679	676	672	668	662	662	663	667	668	668	
Mean **	657	647	646	648	650	655	655	659	659	652	644	647	645	639	630	632	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
18000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
685	685	682	681	683	680	681	681	672	17 12	690	632	11 35	58	1
665	642	620	661	660	661	662	661	667	6 49	688	†597	18 18	91	2 **
652	656	660	668	668	672	670	673	655	21 31	680	628	13 45	52	3 **
669	670	671	678	673	679	674	674	665	19 29	680	642	10 40	38	4
670	671	676	679	680	681	681	680	669	21 36	684	641	11 10	43	5 *
676	680	682	684	687	683	683	683	675	20 33	690	649	11 21	41	6 *
663	671	677	680	683	680	678	679	671	20 19	689	646	11 14	43	7
670	678	681	681	682	684	681	681	671	5 54	690	630	11 11	60	8 *
684	692	694	699	701	704	701	699	682	21 44	707	641	11 16	66	9
671	673	664	670	667	665	667	670	677	6 47	724†	631	11 2	93	10 **
668	670	674	678	680	680	678	673	661	5 49	700	618	12 20	82	11 **
667	675	678	676	678	664	667	675	669	20 15	690	633	14 17	57	12
665	670	679	681	685	686	684	684	670	21 49	690	648	10 48	42	13
673	680	685	688	690	689	675	678	674	21 25	692	648	11 55	44	14
677	682	683	687	690	692	692	692	677	22 21	695	648	12 30	47	15
669	677	682	685	683	682	687	687	675	5 41	699	636	13 4	63	16
669	673	679	681	688	689	691	691	677	5 25	698	648	11 57	50	17
661	669	669	662	659	668	668	670	671	7 25	691	646	12 54	45	18
667	672	677	679	679	680	679	678	672	8 5	688	649	12 10	39	19
667	678	681	687	687	686	683	684	677	3 13	694	647	11 51	47	20
669	680	690	691	689	689	687	684	682	5 40	699	659	11 33	40	21
686	691	695	695	694	693	694	691	683	20 0	697	657	11 51	40	22 *
667	669	681	684	684	681	676	679	682	9 30	701	653	13 51	48	23
663	668	669	669	671	674	680	680	671	5 56	690	637	14 0	53	24
646	648	637	629	637	640	649	652	665	5 40	692	621	19 20	71	25
649	654	664	680	679	678	676	670	661	19 20	687	641	15 29	46	26
652	657	670	674	660	661	657	663	665	5 33	694	645	11 44	49	27
667	676	676	670	670	669	667	669	672	3 38	707	635	13 29	72	28 **
646	660	670	675	677	677	677	677	669	5 34	698	629	15 31	69	29
669	676	679	685	685	686	685	685	674	20 11	687	659	12 12	28	30 *
667	671	674	678	678	678	678	678	672	-	694	640	-	53.9	Mean
674	679	683	685	686	685	685	684	674	-	690	647	-	42.4	Mean *
665	663	659	669	669	669	669	669	666	-	700	622	-	78.0	Mean **

18000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
677	685	690	688	689	691	690	687	681	18 5	696	666	11 28	30	1 *
639	659	639	641	647	652	658	667	664	0 20	689	620	18 39	69	2
674	677	682	679	679	683	682	680	665	21 31	686	647	1 32	39	3
600	578	532	534	538	530	582	543	628	0 42	706	†496	18 37	210	4 **
633	637	643	645	646	645	648	641	610	22 26	660	545	1 51	115	5 **
624	635	645	649	658	653	643	648	643	5 31	661	616	10 38	45	6
662	670	676	678	677	676	675	672	664	6 35	686	645	11 41	41	7 *
664	673	679	675	674	670	670	668	670	17 58	687	647	15 16	40	8
677	678	679	683	685	685	682	678	667	20 40	687	647	11 14	40	9
675	677	679	684	684	684	685	685	672	22 30	687	655	10 33	32	10 *
676	681	686	687	686	679	682	678	680	22 39	702	666	12 48	36	11
672	678	680	685	684	675	667	668	675	19 45	689	646	13 1	43	12 *
647	627	611	587	612	628	625	627	656	0 7	709†	560	19 16	149	13 **
621	627	631	615	619	636	673	657	638	22 30	698	584	19 45	114	14
657	667	674	677	685	677	677	685	666	20 24	706	650	12 8	56	15
660	668	680	680	682	683	683	681	677	2 5	702	654	15 9	48	16
678	662	626	624	639	625	615	609	664	16 55	696	589	21 56	107	17 **
647	655	659	662	658	655	646	652	638	19 19	664	558	2 10	106	18 **
638	651	647	661	664	668	667	666	648	1 32	679	608	13 21	71	19
648	656	661	666	667	673	669	672	664	6 2	698	638	11 13	60	20
657	664	664	670	676	676	676	675	666	5 3	684	640	11 37	44	21
668	677	676	657	668	684	677	676	671	1 42	694	652	10 12	42	22
674	656	656	659	663	666	660	668	670	7 20	700	645	18 1	55	23
676	677	683	686	687	685	686	680	674	22 40	690	649	12 45	41	24
673	677	678	683	687	688	690	696	680	23 37	707	662	10 50	45	25 *
668	656	660	681	684	679	669	664	677	0 0	697	635	17 50	62	26
658	667	676	681	683	683	680	680	669	4 27	689	636	11 42	53	27
663	675	675	686	676	671	684	681	674	6 18	697	645	15 19	52	28
671	676	675	669	666	674	664	666	671	0 34	692	655	22 50	37	29
677	676	668	668	667	674	677	676	673	14 31	696	661	19 31	35	30
683	683	686	684	691	693	692	690	679	20 59	695	657	12 33	38	31
659	662	661	662	665	666	667	665	664	-	691	628	-	63.1	Mean
672	677	681	684	684	683	682	682	674	-	693	655	-	38.2	Mean *
641	632	614	610	619	617	623	614	639	-	687	550	-	137.4	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
JANUARY																	
43000 γ + Tabular Quantities (in γ)																	
1 **	491	477	444	452	448	446	447	450	456	462	467	466	457	469	485	483	
2	502	499	487	473	466	459	463	463	463	458	458	461	458	463	476	479	
3 *	472	468	469	468	465	464	465	465	465	465	468	464	451	453	467	469	
4 *	467	467	465	464	464	464	463	463	461	455	453	459	457	449	457	463	
5 *	462	465	464	462	461	459	456	456	455	451	449	451	448	447	452	459	
6	460	459	459	459	456	455	453	451	448	444	444	444	440	445	456	456	
7 *	455	455	455	456	455	456	455	455	451	445	444	444	442	448	458	459	
8 *	455	454	454	453	454	454	453	453	449	445	445	441	440	444	455	462	
9	453	455	453	453	454	456	455	453	452	448	446	444	436	443	456	454	
10	476	470	457	456	456	458	458	461	460	454	449	444	433	443	453	452	
11	459	460	458	455	455	458	458	459	458	453	460	459	449	449	458	457	
12	463	463	462	463	461	457	455	459	459	457	458	451	440	448	457	459	
13	465	460	457	456	457	454	454	454	454	454	458	456	442	446	456	461	
14	463	460	459	459	459	459	459	460	461	460	465	456	455	456	459	465	
15	462	462	461	461	459	457	453	453	454	456	460	462	453	464	468	472	
16	467	466	465	463	461	461	460	462	464	457	455	452	454	460	464	467	
17 **	468	465	465	464	454	446	450	455	460	455	454	457	456	456	464	478	
18 **	474	466	465	462	454	448	450	454	450	444	450	448	444	449	471	477	
19	474	470	470	468	466	466	464	462	464	458	455	453	452	457	472	475	
20	464	464	465	464	465	464	462	461	461	457	449	450	452	454	456	467	
21 **	472	448	440	427	424	435	446	455	457	456	452	454	454	455	465	473	
22	465	467	467	465	466	464	464	462	464	462	461	461	459	473	478	477	
23 **	466	464	462	464	457	448	446	449	453	456	457	452	447	457	465	471	
24	465	464	465	465	466	465	466	467	463	455	451	447	453	459	462	465	
25	462	462	461	460	459	458	459	461	460	457	452	449	447	454	463	469	
26	461	460	462	458	451	434	435	449	460	463	461	459	456	460	465	466	
27	465	464	466	465	463	461	462	464	465	464	463	462	458	459	459	460	
28	456	458	458	459	460	460	459	460	460	461	455	450	447	450	455	457	
29	458	458	456	448	444	440	439	438	439	442	447	452	455	458	458	458	
30	458	456	454	454	453	452	451	451	455	455	456	455	449	451	455	455	
31	455	452	451	450	450	450	450	450	448	446	445	444	444	451	455	454	
Mean	466	463	461	459	457	455	455	457	457	455	454	453	449	454	462	465	
Mean *	462	462	461	461	460	459	458	458	456	452	452	452	448	448	458	462	
Mean **	474	464	455	454	447	445	448	453	455	455	456	455	452	457	470	476	
FEBRUARY																	
43000 γ + Tabular Quantities (in γ)																	
1	453	453	452	452	452	451	450	451	450	448	445	440	442	448	450	453	
2	453	450	448	448	449	448	445	443	443	445	450	452	453	452	457	455	
3 *	452	453	452	452	451	450	450	448	447	446	443	445	446	447	445	447	
4	450	445	448	449	450	449	448	444	439	432	429	431	428	428	438	449	
5	478	474	471	464	454	453	451	449	449	446	439	438	437	448	447	452	
6 **	464	465	465	466	463	455	453	449	446	447	446	447	452	453	468	478	
7	456	461	458	457	455	451	457	456	451	452	451	447	451	453	455	465	
8	454	449	453	450	447	449	447	445	444	445	451	447	445	449	468	477	
9	465	462	465	461	462	463	464	461	456	456	452	448	445	444	450	460	
10	453	450	449	458	462	458	458	456	456	459	459	456	452	457	465	473	
11 **	473	445	228	372	413	399	413	395	378	390	445	490	542	559	542	551	
12 **	505	509	501	490	497	497	491	490	488	475	472	479	474	475	481	490	
13	475	470	472	473	473	475	476	473	470	468	466	461	464	472	468	485	
14	477	474	471	456	454	451	447	452	453	453	454	455	462	465	464	466	
15 *	472	473	473	471	470	469	467	466	470	470	473	474	472	471	466	469	
16	459	459	461	462	462	461	458	458	459	459	458	453	454	455	460	463	
17 **	465	466	463	463	464	460	455	454	453	453	454	453	457	467	473	482	
18 **	471	470	465	456	454	459	458	454	450	450	446	450	454	465	470	480	
19	450	449	463	464	467	463	458	460	462	456	451	448	452	463	466	470	
20	471	468	470	471	468	464	461	459	459	452	450	446	448	455	468	469	
21	470	471	471	466	462	446	447	442	450	455	452	448	450	452	466	470	
22	467	458	451	460	466	465	463	460	459	460	462	457	454	460	460	463	
23	458	458	456	454	459	462	466	464	460	463	460	460	460	459	461	469	
24 *	464	463	465	463	464	465	467	465	467	466	462	460	459	459	453	458	
25 *	453	455	455	455	455	456	455	457	457	457	452	447	445	449	454	458	
26 *	458	458	457	457	455	457	458	455	457	455	455	452	451	452	453	456	
27	459	453	457	456	456	456	457	458	458	456	453	449	448	449	453	459	
28	461	456	459	457	456	458	459	461	461	459	451	449	451	451	459	465	
Mean	464	461	454	457	459	457	456	454	453	453	453	453	455	459	463	469	
Mean *	460	460	460	460	459	459	459	458	460	459	457	456	455	456	454	458	
Mean **	476	471	424	449	458	454	454	448	443	443	453	464	476	484	487	496	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
43000 γ + Tabular Quantities (in γ)													JANUARY	
										h m	h m	γ		
475	476	485	505	531	517	518	507	476	20 24	543 [†]	429	2 58	114	1 **
481	479	476	477	475	476	476	474	473	0 11	510	450	12 48	60	2
469	467	467	468	470	470	469	468	466	0 5	474	446	12 50	28	3 *
462	460	460	460	461	460	460	460	461	1 17	467	449	13 22	18	4 *
460	459	459	459	457	457	457	458	457	1 0	467	446	13 2	21	5 *
460	461	461	460	459	456	456	456	454	17 25	461	437	12 57	24	6
460	461	463	462	460	459	457	456	455	18 57	462	440	12 50	22	7 *
460	461	464	465	461	457	454	453	454	19 8	466	439	12 48	27	8 *
456	466	475	477	470	473	478	479	458	19 8	491	436	12 39	55	9
454	460	465	463	463	461	458	456	457	0 0	479	431	12 37	48	10
457	458	459	470	486	478	470	467	460	20 30	488	447	12 29	41	11
462	464	464	465	467	466	466	467	460	20 36	469	439	12 15	30	12
458	461	460	461	473	466	468	466	458	20 23	481	439	12 29	42	13
463	460	464	468	467	482	469	465	462	21 41	489	451	11 51	38	14
465	467	468	468	472	471	472	470	463	15 14	478	446	12 40	32	15
460	456	458	463	468	472	473	474	463	23 9	479	449	12 34	30	16
470	469	470	469	473	484	472	475	464	21 18	495	444	5 5	51	17 **
469	472	479	485	484	481	477	477	464	19 20	487	436	9 28	51	18 **
472	472	476	478	473	468	468	466	467	18 35	482	449	12 26	33	19
465	461	464	463	466	471	471	477	462	21 51	483	444	11 3	39	20
472	465	469	468	470	470	468	466	457	0 0	480	†419	4 30	61	21 **
477	474	473	476	471	468	464	465	468	13 54	482	450	12 43	32	22
476	475	483	483	480	477	469	466	463	18 46	490	444	12 37	46	23 **
468	465	466	467	466	463	462	460	462	4 54	468	443	10 53	25	24
478	486	492	484	478	471	466	463	465	18 16	493	443	12 43	50	25
467	470	475	478	474	471	469	469	461	19 28	478	427	5 49	51	26
459	461	463	466	467	466	475	458	463	22 26	481	457	12 42	24	27
456	457	461	462	463	460	459	459	458	9 54	463	447	12 5	16	28
458	460	466	474	468	458	456	457	454	19 29	478	438	8 21	40	29
452	453	458	461	463	462	460	459	455	20 39	463	446	12 31	17	30
452	454	453	455	460	460	459	462	452	23 42	465	442	11 57	23	31
464	465	468	470	471	469	468	466	461	-	480	442	-	38.4	Mean
462	462	463	463	462	461	459	459	458	-	467	444	-	23.2	Mean *
472	471	477	482	488	486	481	478	465	-	499	434	-	64.6	Mean **
43000 γ + Tabular Quantities (in γ)													FEBRUARY	
										h m	h m	γ		
452	456	457	457	455	457	458	456	452	21 52	460	438	11 41	22	1
453	454	452	454	454	454	452	452	451	14 47	459	442	8 39	17	2
448	450	448	449	449	450	450	450	449	0 13	453	442	10 32	11	3 *
454	452	455	482	480	480	479	481	451	19 43	502	422	13 16	80	4
463	461	468	473	482	469	474	467	459	20 13	492	429	11 59	63	5
480	485	480	475	467	468	469	449	462	17 44	495	440	11 41	55	6 **
477	477	472	473	465	451	453	455	458	16 34	484	442	11 9	42	7
476	481	472	471	475	476	468	467	459	20 59	489	439	9 12	50	8
469	480	485	475	468	473	473	470	463	18 27	495	442	13 10	53	9
487	495	496	495	485	487	493	477	468	17 3	519	443	1 59	76	10
540	528	528	551	569	547	544	536	474	13 6	613 [†]	†135	2 35	478	11 **
492	501	524	502	489	486	485	481	491	18 16	555	466	10 47	89	12 **
495	488	490	489	480	480	481	479	476	16 21	497	460	11 47	37	13
496	496	484	479	477	477	475	471	467	16 40	510	446	6 20	64	14
469	465	462	462	463	466	466	464	468	11 6	476	462	19 37	14	15 *
462	463	466	466	466	467	469	467	461	22 28	471	451	11 49	20	16
478	483	482	481	484	478	474	474	467	20 4	492	447	9 43	45	17 **
486	485	492	484	473	473	466	461	466	18 37	513	441	10 33	72	18 **
477	475	478	480	479	474	467	466	464	20 47	485	446	11 23	39	19
472	476	483	493	498	479	475	472	468	20 41	514	441	11 38	73	20
477	483	507	503	493	487	468	464	467	18 47	516	438	7 13	78	21
466	470	475	472	482	473	472	464	464	20 37	495	446	2 10	49	22
479	479	475	474	470	466	466	464	464	16 54	485	453	3 30	32	23
460	464	470	465	467	463	455	454	462	18 29	472	453	14 25	19	24 *
461	461	463	464	465	464	461	458	457	20 30	466	445	12 4	21	25 *
457	457	459	460	458	461	462	461	457	7 45	466	447	12 43	19	26 *
460	460	461	465	472	471	464	463	458	21 12	484	447	12 39	37	27
471	465	468	467	463	461	461	462	460	16 15	473	448	13 31	25	28
473	475	477	477	476	473	471	467	463	-	494	434	-	60.0	Mean
459	459	460	460	460	461	459	457	459	-	467	450	-	16.8	Mean *
495	496	501	499	496	490	488	480	472	-	534	386	-	147.8	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
MARCH																	
43000 γ + Tabular Quantities (in γ)																	
1 *	462	454	457	458	460	460	462	465	465	458	451	442	440	445	452	458	
2 *	461	460	459	459	458	458	453	449	448	443	443	448	445	449	455	457	
3	459	458	457	456	456	455	454	455	456	453	449	447	454	456	462	468	
4	464	460	458	460	457	452	447	452	454	454	450	448	456	463	471	469	
5 **	470	473	468	467	458	454	444	438	434	436	446	445	449	454	462	466	
6	452	450	426	442	447	457	456	461	465	464	456	450	452	456	470	485	
7	461	454	459	454	447	447	451	454	452	454	449	441	443	458	461	473	
8	462	452	449	443	443	447	453	459	457	453	448	439	441	446	459	465	
9	466	464	453	454	461	461	454	458	459	457	451	447	454	451	459	474	
10	459	451	448	452	450	454	458	466	465	452	436	431	435	441	447	464	
11	478	467	462	463	465	465	466	467	461	451	442	431	438	443	451	463	
12 **	460	451	450	399	406	419	427	436	437	449	447	447	451	457	478	490	
13 **	463	448	447	435	427	427	426	446	450	454	454	466	478	495	525	542	
14	483	478	476	475	477	477	476	478	476	474	468	460	451	453	447	468	
15	474	471	470	467	463	460	455	462	461	461	457	452	457	470	480	487	
16 *	466	454	452	451	448	452	455	464	462	461	450	440	441	444	450	459	
17	469	468	465	467	467	464	457	457	450	444	442	435	438	445	461	471	
18	469	471	464	456	457	462	461	457	452	442	439	435	435	448	461	482	
19 **	480	474	470	461	461	456	449	456	462	459	456	451	448	457	477	510	
20 **	451	455	456	443	454	460	457	464	455	450	441	430	426	438	456	466	
21	445	448	452	448	453	458	464	468	470	469	459	451	448	450	464	485	
22	451	442	443	447	457	466	471	474	475	469	461	452	443	446	460	469	
23	450	454	454	456	450	450	454	461	464	460	453	438	440	446	456	469	
24	470	468	467	469	462	456	458	462	462	454	438	428	430	437	452	474	
25	446	442	437	448	459	463	463	464	462	454	443	431	428	441	456	473	
26	465	459	456	461	463	465	468	471	468	458	447	437	437	438	454	475	
27	447	450	457	461	465	467	469	475	471	462	455	444	443	443	444	453	
28 *	464	464	462	458	460	462	466	473	470	460	444	430	426	428	436	446	
29 *	458	455	455	456	458	456	460	469	468	456	443	430	426	426	436	450	
30	460	459	459	458	457	458	460	464	458	449	444	428	426	438	465	476	
31	474	470	471	468	465	459	450	458	463	458	453	445	438	443	451	466	
Mean	463	459	457	455	455	456	456	461	460	455	449	442	442	449	460	473	
Mean *	462	457	457	456	457	458	459	464	463	456	446	438	436	438	446	454	
Mean **	465	460	458	441	441	443	441	448	448	450	449	448	450	460	480	495	
APRIL																	
43000 γ + Tabular Quantities (in γ)																	
1	476	470	469	460	459	457	466	469	461	450	443	438	437	440	455	473	
2 **	469	469	471	469	461	453	451	452	447	435	424	425	427	434	449	463	
3	464	461	450	452	451	451	454	456	454	451	447	443	416	434	463	481	
4 **	460	458	456	457	463	458	461	463	462	445	431	423	436	443	453	465	
5	464	463	462	463	461	453	455	454	448	439	437	438	443	445	462	477	
6	469	461	462	466	471	471	470	471	465	454	439	433	426	429	446	473	
7	453	461	464	464	462	455	457	461	458	453	443	435	432	442	460	473	
8	466	466	465	461	462	464	472	475	474	463	443	429	420	424	437	451	
9	469	467	467	465	459	457	465	469	466	456	443	431	425	423	433	444	
10 *	475	470	467	467	466	465	467	469	463	453	442	433	426	428	437	445	
11 *	461	460	457	455	455	455	457	462	457	452	443	435	429	433	442	444	
12 *	458	456	456	456	456	457	457	457	454	449	440	426	418	421	433	442	
13 *	457	456	456	457	458	461	463	460	456	447	443	434	428	434	440	446	
14	458	457	454	454	455	455	458	461	458	449	442	436	427	437	448	456	
15	460	456	458	451	438	441	442	446	440	440	438	422	421	430	443	456	
16 **	463	461	455	449	453	457	456	451	448	438	428	427	432	441	449	459	
17 **	433	435	441	439	435	434	438	444	445	441	440	436	439	443	455	507	
18 **	455	450	429	426	437	448	451	454	455	450	441	437	448	465	472	483	
19	455	453	453	461	462	463	465	468	466	450	441	429	426	438	457	471	
20	455	461	462	459	456	457	461	461	459	451	441	431	426	436	452	463	
21	459	461	463	459	458	459	463	463	456	447	439	419	413	424	441	463	
22 *	453	458	461	463	463	461	461	457	445	431	428	429	429	433	445	457	
23	459	461	461	461	461	462	463	461	457	444	432	420	417	426	440	457	
24	462	463	463	463	456	447	449	448	444	437	428	415	415	425	442	455	
25	462	461	459	451	450	455	456	455	449	438	425	416	413	423	436	447	
26	455	456	456	456	458	459	458	455	448	440	426	423	420	424	435	448	
27	460	459	458	458	461	464	463	461	462	457	446	433	422	422	431	441	
28	468	467	463	459	451	451	459	461	463	449	441	438	439	451	465	481	
29	469	467	461	451	446	436	431	439	446	437	435	436	437	447	451	456	
30	463	457	449	452	451	452	453	459	453	449	441	437	430	442	457	463	
Mean	461	460	458	457	456	455	457	459	455	447	438	430	427	435	448	461	
Mean *	461	460	459	460	460	460	461	461	455	446	439	431	426	430	439	447	
Mean **	456	455	450	448	450	450	451	453	451	442	433	430	436	445	456	475	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date			
43000 γ + Tabular Quantities (in γ)																
										h m		h m		γ		
460	459	461	461	462	465	466	465	458	23	2	469	439	12	30	30	1 *
460	457	457	457	457	457	457	459	454	0	0	462	440	9	32	22	2 *
468	463	485	482	493	472	472	468	462	20	34	508	445	11	42	63	3
470	482	484	480	475	460	457	466	462	20	8	490	445	11	7	45	4
470	474	473	474	474	476	464	454	459	19	43	479	425	8	27	54	5 **
499	487	483	485	476	481	458	460	463	16	19	504	421	2	40	83	6
490	489	482	481	486	480	474	465	463	16	38	499	437	4	53	62	7
471	471	468	467	469	470	466	467	457	20	50	474	437	11	37	37	8
478	474	473	475	470	461	458	458	461	15	53	480	444	11	40	36	9
469	487	498	483	481	484	478	474	461	18	13	504	430	11	29	74	10
491	506	510	500	486	490	489	471	469	19	32	525	428	11	42	97	11
495	507	514	502	497	493	484	472	461	17	59	522	392	3	14	130	12 **
543	542	534	507	503	496	489	488	479	15	49	555†	421	4	20	134	13 **
483	474	471	472	474	473	476	475	472	0	8	491	440	14	35	51	14
500	500	493	484	478	475	474	473	472	16	46	505	450	11	7	55	15
465	468	471	470	470	474	476	473	459	22	28	478	439	11	42	39	16 *
483	498	507	507	483	476	472	470	467	19	31	517	432	11	28	85	17
508	497	508	506	501	506	496	486	471	18	56	520	430	12	16	90	18
523	521	521	512	505	490	477	465	477	16	40	528	442	6	30	86	19 **
480	491	484	489	501	484	477	468	462	20	34	509	425	12	11	84	20 **
507	516	514	503	488	488	479	471	471	18	35	520	438	0	52	82	21
475	478	478	478	473	471	471	456	463	19	17	481	433	2	0	48	22
488	494	494	494	478	476	472	472	463	19	17	498	437	11	19	61	23
502	523	514	509	506	473	479	470	469	17	9	533	426	11	31	107	24
498	500	481	474	474	474	468	466	460	17	8	518	425	12	16	93	25
499	494	492	495	496	482	478	469	468	16	37	503	434	13	13	69	26
465	470	473	477	473	475	472	464	461	22	11	489	440	0	42	49	27
460	480	480	473	468	466	470	468	459	17	49	484	425	12	10	59	28 *
460	468	466	465	461	462	464	463	455	7	58	472	419	13	48	53	29 *
502	522	514	495	494	488	482	476	468	17	3	532	422	11	48	110	30
472	478	480	481	479	476	476	475	465	19	52	484	437	12	29	47	31
485	489	489	485	482	477	473	469	464	-	-	501	432	-	-	68.9	Mean
461	466	467	465	464	465	467	466	457	-	-	473	432	-	-	40.6	Mean *
502	507	505	497	496	488	478	469	467	-	-	519	421	-	-	97.6	Mean **

43000 γ + Tabular Quantities (in γ)														APRIL		
										h m		h m		γ		
481	480	481	487	477	470	475	469	464	19	47	493	435	12	43	58	1
467	472	469	465	470	476	481	475	457	22	17	482	418	10	49	64	2 **
496	512	521	509	513	500	474	472	468	20	39	476	435	12	30	41	3
475	476	473	467	468	463	461	462	457	18	27	535†	413	12	30	122	4 **
486	495	496	492	483	473	471	471	464	18	39	498	436	9	47	62	5
487	502	505	501	492	481	476	455	467	18	26	509	426	12	58	83	6
485	493	501	485	476	472	471	472	464	18	23	509	431	12	21	78	7
467	475	473	471	473	474	466	467	460	21	16	477	419	12	40	58	8
453	462	471	471	475	480	480	477	459	22	3	483	422	13	15	61	9
454	460	459	457	459	462	466	463	456	0	1	476	425	12	50	51	10 *
451	455	456	456	456	457	459	459	452	0	22	462	429	12	56	33	11 *
451	459	460	460	460	458	460	459	450	22	40	464	416	12	23	48	12 *
452	458	458	458	458	458	458	458	452	6	55	464	428	12	18	36	13 *
459	465	470	480	477	474	476	474	458	19	30	485	423	12	49	62	14
464	467	474	478	480	463	464	460	451	20	10	485	418	12	0	67	15
473	489	496	504	479	474	472	456	459	19	18	522	424	10	46	98	16 **
506	502	515	509	481	478	465	455	459	15	50	528	416	0	52	112	17 **
505	508	501	483	474	474	463	448	461	18	17	525	415	2	49	110	18 **
483	491	481	481	474	462	453	455	460	17	10	495	424	12	9	71	19
471	478	485	478	473	468	454	456	458	18	13	485	425	12	22	60	20
479	481	480	471	469	469	452	446	456	17	48	484	413	11	57	71	21
461	465	469	465	461	461	459	459	453	18	40	470	426	10	33	44	22 *
470	481	487	485	482	475	477	466	459	18	23	488	416	12	28	72	23
469	476	478	476	475	471	469	464	454	18	32	479	411	11	59	68	24
456	462	462	459	457	456	456	456	448	18	10	464	410	12	30	54	25
464	461	474	475	476	465	463	460	452	20	8	478	418	12	49	60	26
451	465	477	481	487	472	466	467	457	20	30	496	418	12	50	78	27
492	495	503	498	488	483	478	470	467	18	46	508	435	11	40	73	28
470	488	487	482	483	480	466	465	457	17	45	497	429	6	32	68	29
481	496	492	495	479	469	448	448	459	19	50	498	428	12	28	70	30
472	479	482	479	475	471	466	462	458	-	-	491	423	-	-	67.8	Mean
454	459	460	459	459	459	460	460	453	-	-	467	425	-	-	42.4	Mean *
485	489	491	486	474	473	468	459	459	-	-	518	417	-	-	101.2	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
MAY 43000 γ + Tabular Quantities (in γ)																	
1	458	447	450	454	454	455	459	456	446	441	432	431	435	444	456	469	
2	463	461	455	453	451	453	458	457	460	454	442	436	435	437	446	456	
3	462	464	465	465	464	465	465	460	452	437	423	418	422	429	439	446	
4	458	456	460	464	464	464	460	455	447	437	430	421	422	432	442	450	
5	460	461	458	458	463	469	468	464	457	446	435	425	420	425	436	427	
6	460	461	455	458	462	466	465	462	452	433	417	410	417	429	450	460	
7 *	459	459	460	461	460	465	464	459	453	442	422	406	402	409	424	439	
8	452	452	452	455	457	460	460	459	450	438	424	413	408	415	433	443	
9	454	456	458	459	460	461	458	449	448	441	427	420	418	421	433	443	
10	460	454	453	454	457	460	460	458	451	444	431	421	420	433	445	457	
11	461	461	461	461	463	465	461	452	442	434	428	419	412	422	437	454	
12	461	461	461	461	463	464	462	460	454	441	430	422	421	429	435	442	
13 **	454	457	462	462	465	466	463	456	445	434	424	421	427	435	449	466	
14 **	437	435	439	439	437	441	439	440	439	437	427	427	433	447	478	496	
15	448	447	440	435	435	432	441	446	445	446	437	428	429	441	462	474	
16	457	445	447	445	456	464	468	470	465	457	448	437	433	442	457	473	
17	465	462	457	455	453	456	456	457	457	446	439	426	429	440	457	470	
18	447	443	443	449	455	457	454	446	438	435	425	423	423	434	451	466	
19	456	460	462	462	457	453	449	448	440	431	425	422	423	433	445	462	
20 *	459	456	455	459	462	467	468	463	457	444	433	422	422	433	445	457	
21	459	453	450	452	453	462	466	461	451	437	426	418	417	424	437	451	
22 *	459	460	461	462	465	469	470	466	458	442	423	409	408	419	434	450	
23 *	455	454	456	458	460	462	460	454	447	435	428	423	423	431	440	454	
24 *	455	455	456	458	463	463	463	455	446	434	421	418	419	421	432	444	
25	456	455	455	457	460	463	458	450	444	436	424	411	412	423	430	441	
26 **	448	450	448	449	452	456	457	451	438	427	418	423	426	437	471	519	
27	463	463	460	462	463	463	462	456	450	438	428	423	428	434	442	454	
28	446	440	442	438	445	453	455	451	445	440	428	422	426	438	446	461	
29 **	452	422	421	411	430	440	440	424	417	401	408	412	444	479	502	506	
30	470	473	473	469	467	469	467	463	457	450	444	443	444	451	463	473	
31 **	463	465	463	446	445	453	456	454	451	437	425	423	434	457	464	466	
Mean	457	454	454	454	456	459	459	455	448	439	428	422	424	434	448	460	
Mean *	457	457	458	460	462	465	465	459	452	439	425	416	415	423	435	449	
Mean **	451	446	447	441	446	451	451	445	438	427	420	421	433	451	473	491	
JUNE 43000 γ + Tabular Quantities (in γ)																	
1 **	364	431	436	438	480	480	462	470	473	472	471	467	460	462	470	478	
2	465	475	463	464	471	463	461	458	460	454	445	434	436	458	479	503	
3 *	471	473	473	480	485	487	482	467	457	442	433	426	433	446	456	467	
4 *	470	466	466	467	471	477	476	467	462	452	446	444	444	451	462	467	
5	465	465	466	467	473	476	476	473	466	453	436	418	409	419	436	456	
6	463	464	463	466	472	476	476	467	457	443	441	435	430	434	443	451	
7 **	448	372	370	363	426	457	457	456	444	443	439	443	448	458	475	504	
8	476	475	476	478	482	482	479	476	466	457	449	443	440	449	460	469	
9	451	457	457	462	464	466	466	461	453	442	431	426	433	439	451	469	
10	463	448	426	439	455	460	468	479	477	464	457	447	451	463	478	491	
11	466	465	455	451	457	464	471	474	478	464	451	440	437	443	452	462	
12	470	468	468	468	460	457	457	459	457	454	450	443	442	443	451	465	
13	466	464	464	464	464	462	466	464	452	440	434	434	436	440	455	467	
14	466	466	465	466	466	467	469	469	464	451	430	426	428	432	444	456	
15	458	461	463	464	458	460	444	439	429	419	420	428	431	442	458	467	
16	466	460	460	464	466	467	465	460	455	446	438	435	443	454	467	476	
17 *	465	465	466	467	466	463	462	458	449	443	434	430	430	441	454	466	
18 *	462	462	463	466	468	470	469	465	456	442	432	431	436	441	447	459	
19	463	462	462	465	467	467	465	460	456	450	435	427	427	431	445	457	
20 *	460	459	461	461	466	469	464	457	447	437	432	429	432	433	440	449	
21 **	453	452	439	437	431	436	437	443	443	437	429	418	428	439	462	476	
22	440	448	430	424	414	415	432	440	447	446	447	450	456	456	463	470	
23	452	448	445	444	448	451	458	466	465	460	450	430	429	435	446	458	
24	460	451	450	450	454	451	450	451	448	446	436	432	438	448	463	474	
25	460	458	457	450	450	454	453	448	446	440	430	427	428	431	441	453	
26	466	464	460	462	467	462	460	460	454	447	438	436	432	436	444	453	
27	463	461	461	462	463	465	460	453	447	441	434	431	428	433	442	455	
28 **	465	465	463	453	452	452	454	453	449	442	433	431	431	435	447	455	
29 **	450	434	432	390	365	350	370	392	409	441	466	461	475	497	532	553	
30	490	488	488	490	492	495	490	484	479	470	459	461	463	466	480	489	
Mean	459	458	455	454	458	460	460	459	455	448	441	436	438	445	458	471	
Mean *	466	465	466	468	471	473	471	463	454	443	435	432	435	442	452	462	
Mean **	436	431	428	416	431	435	436	443	444	447	448	444	448	458	477	493	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
43000 γ + Tabular Quantities (in γ)													MAY	
										h m	h m	γ		
485	492	497	486	476	473	459	461	459	18 20	501	426	10 51	75	1
462	466	470	476	470	464	462	461	456	19 37	478	433	12 56	45	2
453	458	462	462	462	462	460	462	452	6 18	467	415	11 21	52	3
456	463	464	463	462	461	466	459	452	22 28	467	417	11 59	50	4
458	464	472	480	476	470	460	460	455	19 56	483	418	12 42	65	5
466	466	466	466	466	460	458	458	453	6 12	467	408	11 33	59	6
450	459	460	459	459	459	458	455	448	5 52	465	401	11 50	64	7 *
457	462	466	469	463	463	460	453	448	19 27	469	406	12 25	63	8
450	456	460	463	466	467	466	466	450	21 35	470	414	12 9	56	9
460	471	486	486	476	470	466	461	456	19 1	494	416	12 14	78	10
461	469	477	478	471	465	463	461	453	18 32	478	409	12 28	69	11
459	465	472	482	484	473	470	458	455	20 50	490	418	12 10	72	12
499	511	504	508	494	484	462	445	462	19 26	514	418	11 20	96	13 **
495	495	496	499	480	474	472	462	457	19 8	511	425	10 36	86	14 **
492	498	500	488	472	466	468	461	455	18 19	502	421	5 3	81	15
491	491	480	468	466	466	466	466	461	16 39	495	429	12 20	66	16
476	482	489	484	473	466	462	452	459	18 40	493	421	11 40	72	17
487	495	492	485	473	466	462	456	454	17 51	498	421	11 48	77	18
472	475	478	475	464	464	462	460	453	19 4	482	419	11 50	63	19
467	474	473	470	465	460	459	459	455	17 50	475	418	12 0	57	20 *
462	469	471	464	461	458	457	457	451	18 1	471	414	12 9	57	21
462	467	467	463	461	458	456	454	452	6 23	469	404	11 56	65	22 *
463	470	469	463	460	458	456	455	451	18 1	472	419	11 54	53	23 *
452	462	467	463	458	458	456	456	449	18 32	466	415	11 50	51	24 *
448	454	458	460	460	460	460	456	447	21 11	463	407	11 40	56	25
533	525	510	493	481	477	473	464	464	16 42	538	415	10 43	123	26 **
460	470	486	495	489	481	463	456	458	19 19	497	419	11 20	78	27
471	479	481	479	477	470	464	460	452	18 24	483	419	11 49	64	28
518	517	508	500	481	469	467	469	456	17 17	521	398	9 30	123	29 **
482	485	481	480	477	475	466	463	466	17 16	487	441	11 20	46	30
473	495	527	549	532	451	458	444	464	19 17	557†	†277	21 48	280	31 **
472	478	480	479	473	466	462	458	455	-	488	412	-	75.5	Mean
459	466	467	464	461	459	457	456	451	-	469	411	-	58.0	Mean *
504	509	509	510	494	471	466	457	460	-	528	387	-	141.6	Mean **
43000 γ + Tabular Quantities (in γ)													JUNE	
										h m	h m	γ		
486	499	518	530	506	494	483	462	471	19 7	536	†277	0 29	259	1 **
512	521	510	492	478	472	471	470	471	17 33	522	429	11 40	93	2
481	490	493	484	474	469	466	467	467	18 13	493	424	11 32	69	3 *
477	484	487	484	472	466	465	465	466	18 20	487	440	12 10	47	4 *
476	486	487	481	472	465	464	463	460	18 12	489	407	12 22	82	5
461	472	482	483	485	474	466	455	461	20 20	488	429	12 20	59	6
511	515	512	509	497	488	484	476	458	17 55	516	337	3 22	179	7 **
474	481	489	492	489	479	474	467	471	19 28	493	437	12 20	56	8
479	482	489	484	484	481	464	463	461	18 41	501	421	11 34	80	9
488	490	498	494	488	483	472	465	469	18 29	498	421	2 21	77	10
475	484	488	486	480	478	473	472	465	18 32	488	433	12 41	55	11
478	488	486	486	484	469	461	465	464	17 22	488	438	12 48	50	12
469	475	479	473	471	467	468	466	460	18 11	480	432	11 0	48	13
459	465	468	468	475	472	466	464	458	18 31	481	421	11 39	60	14
475	482	481	474	468	467	466	467	455	17 49	482	409	9 30	73	15
475	473	476	474	467	465	463	465	462	18 59	476	432	11 20	44	16
468	469	468	464	461	461	460	460	457	17 35	469	426	12 0	43	17 *
466	472	478	478	475	471	466	464	460	18 41	479	427	11 4	52	18 *
461	466	468	469	469	465	462	461	457	19 46	471	424	11 57	47	19
453	459	463	465	460	457	456	453	453	4 36	470	425	11 30	45	20 *
500	535	525	516	509	486	478	472	462	17 39	552	401	11 38	151	21 **
476	483	487	486	479	469	466	458	453	19 23	489	405	4 39	84	22
466	472	478	479	475	469	466	464	456	20 2	482	423	11 50	59	23
480	481	479	478	477	472	463	462	458	17 20	483	429	11 3	54	24
462	477	483	489	478	469	467	469	455	19 38	494	424	11 4	70	25
455	461	467	467	467	464	464	465	456	4 42	467	430	12 39	37	26
463	469	471	469	466	467	469	468	456	22 29	474	424	12 10	50	27
465	472	481	502	492	492	435	457	457	21 36	518	407	22 34	111	28 **
568	578	566	537	520	502	499	492	470	17 42	581†	333	5 36	248	29 **
490	490	490	487	481	477	476	477	481	5 12	495	456	10 35	39	30
478	486	488	486	480	474	468	466	462	-	495	414	-	80.7	Mean
469	475	478	475	468	465	463	462	461	-	480	428	-	51.2	Mean *
506	520	520	519	505	492	476	472	464	-	541	351	-	189.6	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
JULY																	
43000 γ + Tabular Quantities (in γ)																	
1	476	469	470	472	474	469	468	466	462	458	459	457	460	463	470	483	
2 *	470	471	472	473	472	476	477	476	468	452	443	441	445	461	469	474	
3	468	469	472	475	474	476	473	472	469	459	444	436	441	449	458	471	
4	470	471	471	472	474	477	480	471	463	453	449	446	445	456	484	496	
5	470	470	471	473	478	479	475	471	463	453	442	434	442	452	466	472	
6 *	463	463	463	465	471	477	480	474	469	462	456	443	435	440	450	464	
7	464	464	465	466	468	468	468	462	452	442	431	427	428	426	432	449	
8 **	463	458	454	453	458	461	465	461	458	445	427	428	428	426	440	485	726
9 **	510	482	476	465	442	442	447	460	469	471	465	479	501	522	528	536	
10	469	450	449	467	465	475	491	497	486	479	471	460	458	470	479	486	
11	473	471	459	465	477	485	491	489	481	473	458	450	448	455	470	478	
12	476	474	475	474	476	482	481	474	465	457	451	450	452	457	461	480	
13	479	478	472	467	473	469	475	477	474	461	452	437	432	439	454	472	
14	472	473	473	465	460	461	460	461	456	453	451	448	451	454	463	476	
15 *	480	480	480	478	476	478	476	473	467	462	456	452	455	458	471	480	
16 *	476	476	478	478	476	476	474	470	463	458	451	443	444	452	468	484	
17	474	472	469	472	469	463	461	466	465	455	453	441	443	452	467	475	
18 **	475	475	474	468	469	474	469	462	454	446	442	428	427	440	453	468	
19	461	467	471	474	475	477	473	462	457	454	446	433	425	434	454	468	
20	463	457	451	449	466	469	471	466	463	457	448	433	431	439	450	475	
21 **	468	466	464	468	470	472	473	475	468	460	444	433	431	437	450	463	
22	473	466	467	470	475	482	484	482	475	464	459	458	458	460	468	475	
23 *	471	472	471	472	476	480	478	478	475	469	459	449	445	447	455	461	
24	472	469	464	463	468	470	472	474	471	463	448	437	432	437	447	465	
25	473	471	469	469	472	475	477	475	467	455	445	442	445	461	480	496	
26	464	467	454	458	467	475	476	472	468	459	446	437	437	443	453	469	
27 **	473	469	464	463	466	464	461	458	453	455	447	437	436	451	481	510	
28	494	491	479	477	482	483	480	477	472	464	456	447	437	438	450	466	
29	472	475	475	477	477	478	476	469	465	460	452	442	439	448	458	470	
30	470	471	470	471	477	479	478	481	476	467	454	441	439	442	458	474	
31	470	469	470	474	479	484	483	480	470	454	439	429	430	438	450	468	
Mean	473	470	468	469	471	473	474	472	467	459	450	443	443	450	464	485	
Mean *	472	472	473	473	474	477	477	474	468	461	453	446	445	452	463	473	
Mean **	478	470	466	463	461	463	463	463	460	455	445	441	444	458	479	541	
AUGUST																	
43000 γ + Tabular Quantities (in γ)																	
1	469	470	471	476	478	485	477	467	459	456	446	439	433	437	449	462	
2	468	466	468	470	471	476	477	473	465	456	441	430	425	437	449	466	
3	464	458	450	459	465	474	478	478	469	458	443	443	442	444	458	466	
4 *	467	467	467	467	469	476	475	469	462	454	439	426	427	431	441	458	
5 *	465	464	466	469	470	476	472	470	460	451	446	431	422	432	450	462	
6 *	464	462	463	465	471	476	474	470	462	454	446	430	420	421	437	452	
7	462	461	460	460	465	470	470	462	455	449	441	440	440	443	444	451	
8 *	468	467	466	465	469	471	472	471	469	462	450	437	425	427	442	459	
9	464	461	461	460	459	462	468	463	457	448	439	434	435	435	439	449	
10	465	464	462	462	465	471	471	468	460	445	434	438	431	433	449	469	
11	463	463	461	458	459	463	463	458	453	444	441	438	437	441	454	467	
12	463	464	464	465	469	467	464	468	460	445	437	437	438	442	453	464	
13	461	461	461	463	468	466	456	460	462	453	447	448	451	456	462	472	
14	468	467	470	466	471	472	471	464	454	442	435	431	429	431	446	462	
15	455	460	466	470	468	468	470	469	460	446	436	432	430	435	442	452	
16	462	460	457	461	466	472	471	463	454	442	437	433	431	436	451	470	
17 **	462	462	464	467	469	470	468	459	447	435	426	426	426	435	451	485	
18 **	460	464	470	479	482	474	481	481	467	458	451	447	450	455	463	476	
19	467	465	466	470	477	482	482	479	469	454	443	440	440	447	458	470	
20 *	465	464	467	468	471	476	479	476	465	453	440	432	430	432	442	456	
21	466	466	466	466	468	472	476	472	466	455	441	427	425	435	444	451	
22 **	461	460	453	426	408	428	427	434	446	447	444	439	441	446	451	452	
23	470	469	467	468	469	470	465	461	458	453	446	442	439	442	446	452	
24 **	468	460	409	370	365	398	443	458	456	452	449	452	450	453	474	485	
25	477	472	460	453	450	454	459	465	468	466	460	453	448	455	461	472	
26	471	471	469	470	469	463	462	461	459	454	447	444	451	459	468	478	
27 **	475	472	467	458	442	438	441	439	433	430	435	443	450	462	482	502	
28	476	480	481	482	482	483	486	486	475	450	439	435	441	454	475	493	
29	475	475	476	475	478	480	480	478	467	452	441	440	447	456	473	486	
30	466	468	470	470	471	476	479	479	477	468	454	437	438	449	465	478	
31	468	468	468	468	471	473	476	478	469	465	455	445	444	454	471	487	
Mean	466	466	463	462	463	467	469	467	461	452	443	438	437	442	455	468	
Mean *	466	465	466	467	470	475	474	471	464	455	444	431	425	429	420	457	
Mean **	465	464	453	440	433	442	452	454	450	444	441	441	443	450	464	480	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
43000 γ + Tabular Quantities (in γ)													JULY	
h m													Y	
490	490	491	484	482	478	472	470	472	17 57	492	453	11 24	39	1
480	480	482	480	482	477	471	470	469	20 10	483	437	11 50	46	2 *
480	491	498	500	496	483	474	470	471	19 15	500	433	11 24	67	3
502	518	520	511	505	488	470	470	478	18 10	520	443	11 36	77	4
471	478	481	480	473	472	471	465	467	18 50	481	432	11 27	49	5
472	477	475	475	471	469	465	464	464	6 25	480	434	12 22	46	6 *
456	459	466	470	471	469	469	466	456	20 32	476	423	13 21	53	7
762	619	628	608	670	363	423	526	504	15 59	917†	† 71	21 9	846	8 **
534	536	516	506	501	496	496	489	490	16 53	546	434	4 48	112	9 **
488	491	500	502	499	492	485	477	479	19 30	504	434	1 55	70	10
488	487	485	481	495	489	481	478	475	20 38	499	444	12 58	55	11
488	497	507	501	490	487	482	479	476	18 28	507	446	11 3	61	12
492	491	484	479	475	474	474	474	469	16 50	501	428	12 30	73	13
492	492	490	486	483	481	480	480	469	17 9	493	446	11 20	47	14
487	491	494	488	483	480	476	475	475	18 25	494	451	11 39	43	15 *
499	500	499	497	489	482	480	478	475	17 8	501	439	11 59	62	16 *
481	482	481	478	475	473	473	473	467	16 59	482	435	11 48	47	17
475	491	495	498	490	478	470	456	466	19 10	500	419	12 17	81	18 **
475	481	485	492	497	481	470	453	465	20 30	505	423	12 24	82	19
501	497	492	485	477	475	475	475	465	16 22	502	427	12 30	75	20
475	480	504	513	501	487	472	463	468	19 29	538	426	12 2	112	21 **
480	475	477	480	477	474	473	472	472	6 00	490	449	12 18	41	22
469	475	479	478	476	476	475	472	469	5 39	481	443	12 53	38	23 *
470	486	492	489	484	482	471	473	467	18 14	495	429	12 35	66	24
509	516	518	506	489	482	478	474	477	18 20	522	437	11 5	85	25
478	484	485	484	480	471	470	473	465	18 9	485	433	11 50	52	26
521	529	527	519	512	502	494	491	478	17 38	531	428	11 30	103	27 **
476	481	477	471	469	468	469	470	470	0 47	496	431	12 50	65	28
477	479	476	471	472	470	470	469	467	5 24	480	438	12 26	42	29
493	507	511	500	488	479	470	470	474	18 20	512	436	12 20	76	30
497	527	512	491	477	475	472	472	471	17 40	539	424	11 38	115	31
495	496	498	494	491	476	473	474	472	-	515	423	-	91.2	Mean
481	485	486	484	480	477	473	472	470	-	488	441	-	47.0	Mean *
553	531	534	529	535	465	471	485	481	-	606	356	-	250.8	Mean **
43000 γ + Tabular Quantities (in γ)													AUGUST	
h m													Y	
475	480	478	481	478	476	470	469	466	19 19	484	428	12 52	56	1
481	493	492	488	478	471	469	466	466	17 37	495	421	12 30	74	2
478	488	482	478	476	471	469	469	465	17 35	488	439	12 58	49	3
471	478	482	479	474	470	468	466	462	18 30	483	420	11 41	63	4 *
471	472	473	473	471	471	469	466	461	5 20	476	418	12 16	58	5 *
461	467	467	466	468	468	463	462	458	5 40	477	417	12 29	60	6 *
464	479	483	482	479	473	470	469	461	18 10	485	437	11 40	48	7
469	474	473	470	469	470	468	465	462	17 50	474	421	12 47	53	8 *
463	471	467	462	467	469	470	468	457	21 50	473	433	11 30	40	9
479	479	480	474	472	464	467	465	461	18 18	483	426	12 59	57	10
478	480	479	472	469	470	468	463	460	17 9	482	434	11 6	48	11
468	467	461	459	461	461	461	462	458	7 23	469	434	10 57	35	12
470	463	464	463	464	464	464	466	461	15 17	472	443	10 29	29	13
470	478	483	476	471	470	464	460	460	18 53	485	427	12 50	58	14
462	462	462	462	460	460	461	461	456	7 0	472	427	12 20	45	15
487	491	485	478	472	463	462	462	461	17 11	492	429	12 19	63	16
522	542	535	531	491	498	497	497	474	17 50	561	421	10 50	140	17 **
484	487	485	482	481	475	473	473	471	6 59	489	444	11 58	45	18 **
479	486	485	480	474	471	467	465	467	17 44	488	437	11 49	51	19
466	471	472	469	468	467	466	466	461	6 25	480	428	12 36	52	20 *
460	464	467	470	470	468	467	458	459	6 31	476	422	11 51	54	21
469	477	481	476	474	473	472	470	452	18 5	481	396	4 39	85	22 **
459	464	468	473	477	472	469	469	461	21 10	477	437	11 46	40	23
490	489	495	487	480	476	476	478	455	18 20	499	† 345	4 20	154	24 **
478	476	474	476	474	472	472	471	465	19 18	479	447	13 1	32	25
483	484	483	483	477	475	474	473	468	19 0	484	442	11 29	42	26
512	522	529	510	498	487	480	472	470	18 19	572†	418	5 42	154	27 **
502	515	509	500	486	480	477	476	478	17 38	517	431	11 14	86	28
490	490	487	481	476	472	470	469	471	17 19	492	436	11 10	56	29
481	479	478	473	472	468	467	468	468	16 40	482	429	11 49	53	30
499	491	484	478	472	470	468	469	470	16 20	500	440	12 10	60	31
478	483	482	478	474	471	470	468	463	-	489	427	-	62.6	Mean
468	472	473	471	470	469	467	465	461	-	478	421	-	57.2	Mean *
495	503	505	497	485	482	480	478	464	-	520	405	-	115.6	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
SEPTEMBER																	
43000 γ + Tabular Quantities (in γ)																	
1	470	470	471	474	476	479	479	476	468	458	447	438	442	456	470	480	
2	467	468	469	470	473	479	481	479	470	461	450	443	442	453	464	470	
3 **	466	468	466	466	469	472	476	476	468	445	442	431	435	460	475	463	
4 **	479	496	490	490	486	488	491	490	481	470	465	462	460	462	493	578	
5 **	426	425	408	376	386	475	516	529	519	515	511	509	508	516	527	534	
6	493	495	496	495	496	499	505	504	498	489	479	472	469	469	475	482	
7	485	483	483	485	485	488	488	486	481	467	457	449	446	454	475	501	
8	479	481	465	469	481	487	492	490	484	471	457	450	453	462	470	480	
9	469	465	465	472	475	477	481	482	477	467	457	449	449	462	486	494	
10	474	471	468	473	476	478	483	486	480	468	455	449	453	466	481	491	
11	475	478	478	474	476	478	484	484	482	468	450	435	435	449	466	479	
12	476	477	478	478	476	478	479	477	470	458	442	438	440	450	461	474	
13 *	473	476	477	477	476	474	473	473	468	457	443	433	437	443	452	465	
14 *	469	470	471	472	474	476	476	472	463	450	441	434	437	444	452	466	
15	466	467	470	471	472	473	475	475	469	460	448	436	434	441	453	469	
16 **	465	465	466	468	468	460	455	462	459	449	436	421	419	424	443	452	
17	479	469	473	479	479	479	482	483	476	467	456	446	442	450	461	477	
18 *	471	471	472	475	476	479	481	479	473	461	446	434	440	446	454	463	
19	470	470	470	470	472	472	473	476	470	462	447	438	429	433	441	451	
20	466	466	466	465	465	466	467	470	467	460	450	442	435	439	447	454	
21 *	465	466	465	464	464	465	467	470	468	461	454	445	439	442	445	452	
22 *	467	466	465	465	464	465	466	468	467	459	450	438	435	436	444	453	
23	465	466	465	463	461	461	461	463	463	458	450	436	432	436	446	455	
24	458	460	462	463	462	462	463	465	464	454	444	436	437	441	450	460	
25 **	460	464	463	458	443	424	424	421	427	446	450	465	489	523	561	589	
26	477	481	473	452	454	464	469	469	473	479	474	478	482	492	493	502	
27	479	480	481	481	482	482	483	483	482	473	467	466	469	469	478	492	
28	473	470	471	472	468	468	472	476	473	465	454	447	451	461	469	477	
29	473	474	474	474	474	474	474	476	474	468	454	442	442	448	458	472	
30	470	471	471	471	471	472	473	474	472	464	443	431	438	449	455	469	
Mean	470	471	470	469	469	473	476	477	473	464	454	446	447	456	468	481	
Mean *	469	470	470	471	471	472	473	472	468	458	447	437	438	442	449	460	
Mean **	459	464	459	452	450	464	472	476	471	465	461	458	462	477	500	523	
OCTOBER																	
43000 γ + Tabular Quantities (in γ)																	
1	477	476	477	476	476	477	475	474	476	472	463	457	457	456	464	471	
2	466	461	458	455	459	463	466	471	476	469	456	443	436	446	455	467	
3	466	467	468	466	465	456	459	465	475	474	463	446	443	453	455	473	
4 *	472	470	468	468	471	474	476	476	476	472	459	449	445	445	451	460	
5	470	461	462	464	468	469	472	474	474	468	458	443	440	443	450	459	
6	473	470	470	469	468	466	466	469	466	459	455	449	443	445	449	455	
7	471	472	471	467	465	463	461	463	464	462	458	450	447	448	450	459	
8	466	464	458	456	456	456	463	468	471	469	460	457	456	456	457	465	
9 *	468	469	468	466	465	465	466	468	469	467	455	451	451	454	457	460	
10 *	470	470	469	469	468	467	466	469	473	470	460	451	449	451	455	459	
11 *	468	466	466	465	464	462	462	466	466	461	451	441	437	441	449	457	
12 *	463	466	467	468	466	465	464	465	463	456	440	430	431	439	449	458	
13	464	464	465	466	464	464	459	460	458	452	442	429	428	437	446	457	
14	464	465	465	465	465	464	466	468	468	457	446	433	428	433	447	458	
15	462	462	462	464	464	463	464	464	460	451	439	433	435	444	448	457	
16	458	462	462	462	462	460	461	466	466	466	454	435	431	433	444	456	
17	462	463	462	464	462	461	464	470	473	467	451	435	433	435	443	456	
18	459	461	461	459	463	466	469	475	473	465	459	449	444	446	454	461	
19	465	464	463	463	465	465	468	473	471	463	450	438	442	444	450	460	
20	465	464	465	463	465	465	466	470	471	467	454	440	436	438	447	457	
21	462	463	464	462	458	460	462	465	469	464	456	448	450	452	457	465	
22 **	465	463	463	462	457	450	447	450	458	463	460	462	465	471	474	483	
23 **	479	469	465	455	445	442	442	449	462	469	478	483	502	508	522	528	
24 **	479	480	465	445	450	452	456	465	467	474	479	480	506	534	540	559	
25	485	498	500	501	500	498	497	499	496	494	487	479	477	482	486	488	
26	488	488	488	487	485	483	482	484	481	473	465	462	468	474	481	494	
27 **	488	486	479	474	470	472	475	478	479	471	459	456	463	470	480	486	
28 **	474	482	488	490	490	490	488	486	479	472	465	460	465	478	485	504	
29	468	476	482	486	488	485	488	486	485	480	476	472	477	481	490	499	
30	460	461	470	479	482	482	482	483	481	473	466	463	467	473	491	499	
31	477	478	480	483	482	481	482	485	482	474	465	461	458	464	472	477	
Mean	469	470	469	468	468	467	468	471	472	468	459	451	452	457	464	474	
Mean *	468	468	468	467	467	467	467	469	469	465	463	444	443	446	452	459	
Mean **	477	476	472	465	462	461	462	466	469	470	468	468	480	492	500	512	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date	
43000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
485	485	480	476	476	472	469	468	469	16 40	485	435	11 23	50	1
480	483	478	472	471	469	468	466	468	17 34	482	439	12 4	43	2
489	517	523	518	515	503	504	480	476	20 54	527	426	11 59	101	3 **
728	759	680	640	613	476	430	431	522	17 0	931†	†238	22 39	693	4 **
532	522	522	540	524	508	503	499	493	19 53	561	355	4 9	206	5 **
488	490	494	495	493	490	488	486	489	7 5	505	467	13 2	38	6
518	528	511	506	496	487	485	482	484	17 22	530	446	11 51	84	7
480	477	477	477	480	481	479	455	474	6 21	495	444	23 28	51	8
488	485	483	486	488	487	481	470	475	15 14	497	446	12 4	51	9
496	496	486	479	478	478	481	476	476	16 49	502	447	11 20	55	10
480	479	477	473	475	475	474	475	471	7 32	484	431	12 0	53	11
478	476	471	471	470	471	471	472	468	5 46	478	435	11 20	43	12
471	469	467	467	467	469	469	469	464	7 41	475	430	11 40	45	13 *
472	473	467	468	467	466	466	467	463	5 39	475	432	11 35	43	14 *
473	472	467	465	463	464	463	466	463	7 49	475	430	12 10	45	15
481	507	530	511	516	498	483	480	467	18 25	536	415	12 45	121	16 **
485	486	483	481	477	475	471	471	472	7 26	487	436	12 5	51	17
467	472	473	481	477	473	471	470	467	19 29	482	432	11 20	50	18 *
460	464	466	467	468	470	468	467	461	7 38	475	427	12 8	48	19
460	462	464	466	467	467	468	466	460	7 10	471	433	12 46	38	20
458	460	462	466	466	466	464	465	460	7 38	470	437	12 35	33	21 *
456	458	460	463	463	464	464	464	458	7 24	469	432	12 18	37	22 *
461	464	465	463	463	463	465	462	458	1 34	465	430	12 10	35	23
466	468	469	470	469	469	469	459	459	19 20	471	434	11 33	37	24
580	559	541	535	532	497	480	452	487	15 52	607	405	22 54	202	25 **
504	508	502	494	492	485	484	483	482	16 55	509	443	3 15	66	26
493	492	492	489	484	484	478	475	481	15 55	497	463	11 18	34	27
483	482	480	475	473	473	473	472	470	16 50	484	444	11 39	40	28
476	476	475	474	472	472	471	470	468	7 40	479	437	11 46	42	29
490	499	514	507	494	493	493	480	474	18 58	534	428	11 14	106	30
493	496	492	489	486	478	474	470	473	-	511	427	-	84.7	Mean
465	466	466	469	468	468	467	467	463	-	474	433	-	41.6	Mean *
562	573	559	549	540	496	480	468	489	-	632	368	-	264.6	Mean **

43000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
476	477	475	476	478	485	484	468	473	22 56	489	454	13 39	35	1
474	475	475	475	475	475	473	466	464	22 8	485	433	12 15	52	2
493	503	515	504	493	485	479	474	472	18 20	523	440	12 52	83	3
470	472	474	474	473	472	471	470	467	7 10	478	442	12 2	36	4 *
466	472	474	474	478	479	483	477	466	22 15	486	437	11 43	49	5
464	468	468	469	470	476	474	472	464	21 12	477	438	13 10	39	6
478	482	479	480	478	477	481	471	467	16 54	487	443	12 24	44	7
468	467	467	467	467	468	470	471	463	8 16	473	453	13 30	20	8
466	467	466	466	467	468	469	469	464	1 23	470	449	11 35	21	9 *
464	465	465	464	464	465	465	466	464	8 43	473	446	12 39	27	10 *
461	462	462	462	464	468	462	464	459	0 20	468	435	12 30	33	11 *
461	463	463	461	461	463	464	464	458	3 0	467	428	11 50	39	12 **
466	471	470	466	465	463	460	462	457	18 39	470	426	12 4	44	13
464	464	463	463	462	460	463	462	458	8 0	472	†425	12 41	47	14
466	465	464	465	467	466	463	461	458	7 40	470	427	11 33	43	15
464	466	467	466	467	466	464	463	458	8 50	470	430	12 58	40	16
465	469	469	472	472	469	468	462	460	7 57	475	431	12 13	44	17
467	471	468	469	470	472	472	466	463	7 29	477	442	12 51	35	18
481	483	481	481	479	477	476	473	466	16 49	490	436	11 25	54	19
461	463	463	465	465	466	467	462	460	22 8	476	436	12 24	40	20
470	469	468	467	467	468	469	467	463	8 32	471	447	11 50	24	21
504	527	518	520	512	504	499	501	478	19 30	537	442	6 40	95	22 **
522	528	537	538	516	496	494	482	488	18 42	542	438	5 9	104	23 **
565	574	540	547	530	535	514	485	501	17 27	619†	438	3 21	181	24 **
490	493	490	488	488	488	488	488	491	3 42	502	475	12 15	27	25
499	500	503	504	491	490	492	490	486	19 39	509	459	11 1	50	26
496	500	526	557	548	515	495	478	488	19 37	614	452	11 20	162	27 **
512	520	507	511	505	500	482	472	488	17 39	534	455	12 15	79	28 **
504	494	488	489	505	487	480	469	485	20 26	517	456	23 42	61	29
501	503	503	501	492	493	494	478	482	17 28	508	456	0 50	52	30
477	477	477	477	480	479	475	474	476	8 1	490	455	11 51	35	31
481	484	483	484	482	480	477	472	470	-	497	443	-	54.7	Mean
464	466	466	465	466	467	466	467	462	-	471	440	-	31.2	Mean *
520	530	526	535	522	510	497	484	488	-	569	445	-	124.2	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h
NOVEMBER																	
43000 γ + Tabular Quantities (in γ)																	
1	473	474	475	475	477	477	477	479	479	470	462	453	451	454	462	471	
2 **	472	472	473	473	473	472	472	474	476	469	455	450	454	461	472	488	
3 **	485	481	479	481	471	471	475	477	479	472	466	461	461	463	471	479	
4	478	474	477	473	471	471	471	473	475	471	463	458	460	462	469	473	
5 *	473	473	472	472	472	473	474	476	480	473	461	454	453	459	465	471	
6 *	472	471	471	471	470	470	471	473	474	469	461	455	453	456	461	469	
7	471	471	470	470	469	469	469	471	471	469	461	457	456	460	463	469	
8 *	471	471	470	470	469	468	467	469	471	465	459	455	457	461	468	471	
9	471	470	469	468	466	462	461	462	469	463	456	451	452	455	461	465	
10 **	463	463	463	463	463	462	457	454	454	452	450	459	456	456	466	473	
11 **	484	481	471	470	475	470	463	466	468	463	464	465	471	474	480	482	
12	472	472	473	473	473	472	470	467	466	462	461	460	459	462	473	478	
13	473	474	473	472	472	471	467	464	465	463	461	462	465	469	475	476	
14	468	468	467	469	471	472	471	471	472	467	459	453	454	458	465	465	
15	467	466	465	466	468	469	467	468	468	463	458	453	452	455	462	466	
16	466	466	466	466	467	468	466	468	469	461	454	449	454	461	465	469	
17	466	465	463	463	463	463	463	466	467	468	463	460	459	462	467	469	
18	462	461	462	464	464	465	465	466	468	464	457	454	453	454	459	464	
19	469	467	466	466	466	467	466	467	466	463	460	456	456	460	464	468	
20	468	466	464	463	463	464	463	464	466	463	459	454	456	457	459	462	
21	467	466	463	463	462	462	461	462	463	461	459	455	456	461	463	460	
22 *	467	467	463	463	463	462	461	460	459	458	457	456	454	456	459	461	
23	465	466	464	463	462	462	461	461	461	455	447	447	452	456	461	464	
24	465	465	465	465	464	464	462	459	458	461	457	458	465	470	475	479	
25	467	469	468	467	464	464	462	459	456	451	447	447	452	456	466	475	
26	474	472	471	469	472	472	469	468	465	459	454	456	456	463	466	472	
27	472	472	472	471	468	464	463	463	463	462	454	453	453	461	466	472	
28 **	474	466	462	457	455	456	457	454	451	452	452	453	454	460	464	470	
29	466	463	457	461	461	456	457	456	456	455	451	451	451	455	460	469	
30 *	466	466	468	469	470	468	467	465	463	460	457	454	452	455	457	461	
Mean	470	469	468	468	467	467	466	466	467	463	458	455	456	460	465	470	
Mean *	470	470	469	469	469	468	468	469	469	465	459	455	454	457	462	467	
Mean **	476	473	470	469	467	466	465	465	466	462	457	458	459	463	471	478	
DECEMBER																	
43000 γ + Tabular Quantities (in γ)																	
1 *	464	464	465	465	466	466	466	466	465	464	464	461	458	456	457	459	
2	463	463	464	465	465	465	465	463	459	458	456	458	466	473	474	474	
3	479	481	480	473	472	473	473	473	468	466	465	465	463	465	467	469	
4 **	467	465	465	463	463	463	464	464	465	465	471	471	473	486	502	514	
5 **	493	471	476	480	485	487	492	496	497	497	492	488	486	488	490	492	
6	492	489	486	486	484	483	483	482	484	480	481	478	481	485	489	491	
7 *	485	484	481	478	476	474	473	473	474	473	466	464	466	471	471	475	
8	477	476	475	474	473	471	470	469	469	469	465	463	466	468	474	481	
9	484	480	480	479	478	476	476	469	467	464	455	455	461	466	469	473	
10 *	475	476	477	477	477	475	474	469	469	468	459	463	466	471	474	476	
11	470	472	474	475	474	470	468	466	462	459	459	459	465	467	469	471	
12 *	468	471	475	474	473	471	469	468	467	460	455	452	454	456	460	465	
13 **	467	465	459	455	457	460	462	465	461	451	440	440	447	463	479	491	
14	492	488	485	483	483	486	488	486	483	478	468	467	471	475	483	491	
15	483	483	483	483	482	481	481	479	476	473	464	461	461	465	468	474	
16	470	469	468	468	469	468	468	468	467	465	456	449	456	460	463	469	
17 **	468	467	466	467	468	468	469	470	471	470	468	464	465	466	467	470	
18 **	439	442	405	433	459	471	480	483	481	476	476	472	472	478	478	480	
19	489	479	460	454	458	466	466	470	478	479	481	480	479	484	488	490	
20	479	473	469	468	469	468	467	468	471	469	463	461	462	469	479	481	
21	477	475	473	473	471	471	472	473	477	472	471	479	479	480	481	487	
22	477	469	468	471	474	471	470	471	473	468	468	468	468	469	472	477	
23	476	475	472	471	470	469	468	468	467	468	469	470	469	475	476	480	
24	479	477	473	472	470	470	470	471	472	469	464	463	462	469	473	477	
25 *	471	471	471	471	470	469	469	469	469	464	463	464	458	459	469	475	
26	469	470	470	470	470	469	468	467	467	462	460	461	459	466	476	473	
27	476	475	475	476	472	469	470	470	471	470	469	473	471	472	483	482	
28	477	471	473	472	475	474	472	471	468	464	460	465	460	465	473	483	
29	469	467	470	472	475	476	475	476	473	469	470	469	454	457	470	473	
30	478	474	473	472	472	473	473	472	470	468	466	460	452	461	468	468	
31	471	467	466	468	471	472	472	471	471	470	468	463	460	467	473	473	
Mean	475	473	470	471	472	472	472	472	471	469	466	465	465	469	475	479	
Mean *	473	473	474	473	472	471	470	469	469	468	461	461	460	463	466	470	
Mean **	467	462	454	460	466	470	473	476	475	472	469	467	469	476	483	489	

* International Quiet Day. ** International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum	Minimum	Range	Date		
43000 γ + Tabular Quantities (in γ)															
										h m	h m	γ			
471	471	473	478	479	481	479	472	471	471	22 1	483	449	12 39	34	1
500	513	521	505	495	491	488	485	479	479	17 46	536†	446	11 36	90	2 **
482	483	484	483	485	488	483	482	477	477	21 31	490	459	12 45	31	3 **
475	475	473	478	480	481	475	474	472	472	20 59	484	449	12 2	35	4
471	472	471	471	472	474	474	472	470	470	8 21	482	451	12 0	31	5 *
471	470	470	471	471	472	476	472	468	468	22 46	479	450	12 5	29	6 *
471	471	471	472	471	475	475	472	468	468	21 32	479	452	11 50	27	7
472	471	470	470	470	470	471	471	468	468	0 15	472	454	11 15	18	8 *
468	463	461	461	461	461	461	461	462	462	0 20	471	449	11 33	22	9
475	473	475	478	483	482	482	482	466	466	20 43	487	447	10 40	40	10 **
480	478	474	472	472	472	471	471	472	472	0 22	490	460	9 32	30	11 **
476	475	473	480	475	480	479	475	471	471	19 32	485	454	11 52	31	12
477	475	475	473	471	470	468	466	470	470	16 7	477	457	10 58	20	13
466	469	469	469	468	468	472	470	467	467	8 1	472	452	11 50	20	14
469	471	469	469	469	468	467	466	465	465	17 10	472	450	11 50	22	15
471	474	472	471	471	471	470	468	466	466	17 50	475	447	11 30	28	16
470	472	471	472	472	471	467	464	466	466	21 2	473	456	12 11	17	17
470	473	476	481	484	473	472	470	466	466	20 43	489	453	12 16	36	18
470	470	470	470	470	469	469	469	466	466	18 35	471	453	12 13	18	19
464	468	466	464	465	466	467	468	463	463	0 0	468	453	12 14	15	20
464	468	466	464	465	466	467	468	463	463	0 56	466	453	11 42	13	21
463	462	461	462	462	463	463	464	461	461	0 20	468	453	12 40	15	22 *
467	468	466	464	464	464	465	465	461	461	17 0	469	443	10 11	26	23
477	476	474	472	472	471	466	467	467	467	15 11	479	456	10 41	23	24
485	487	493	497	495	489	483	475	470	470	19 39	502	446	11 10	56	25
480	483	484	482	474	474	474	474	470	470	19 4	489	452	10 32	37	26
476	482	482	476	479	482	482	481	470	470	17 53	487	451	12 45	36	27
474	473	472	470	471	470	472	468	463	463	0 0	478	447	11 1	31	28 **
477	479	475	473	470	468	466	467	463	463	17 10	479	449	11 40	30	29
464	467	469	466	466	465	464	464	463	463	18 20	469	450	12 3	19	30 *
473	474	474	474	473	473	472	471	467	467	-	481	451	-	29.3	Mean
468	468	468	468	468	469	470	469	466	466	-	474	452	-	22.4	Mean *
482	484	485	482	481	481	479	478	471	471	-	496	452	-	44.4	Mean **

43000 γ + Tabular Quantities (in γ)

DECEMBER

										h m	h m	γ			
464	466	466	466	466	465	464	463	464	464	7 2	468	456	13 2	12	1 *
476	486	496	509	507	512	493	482	475	475	21 48	529	452	10 10	77	2
468	470	472	473	473	473	471	469	471	471	1 59	486	463	11 1	23	3
521	541	581	554	542	563	549	508	497	497	18 49	631†	458	9 40	173	4 **
493	493	490	490	492	492	491	491	489	489	0 11	525	457	1 30	68	5 **
493	500	498	494	492	490	493	492	488	488	22 59	503	475	11 20	28	6
476	476	476	476	476	476	476	478	475	475	0 7	487	463	11 28	24	7 *
478	478	476	476	486	479	481	485	474	474	20 39	498	459	11 12	39	8
475	475	474	473	473	472	472	474	472	472	0 0	488	449	10 59	39	9
477	476	474	473	471	469	468	468	472	472	3 45	478	457	10 52	21	10 *
475	474	473	471	471	475	479	468	469	469	22 29	492	455	9 45	37	11
470	474	470	471	473	477	478	473	468	468	22 6	480	441	13 0	39	12 *
511	504	536	545	534	524	516	499	480	480	21 1	565	435	12 2	130	13 **
499	501	506	515	515	509	496	483	489	489	19 52	534	465	10 51	69	14
478	484	478	479	481	478	478	474	476	476	17 8	486	458	11 50	28	15
476	478	475	475	476	475	472	470	468	468	17 16	478	446	11 41	32	16
475	477	523	528	516	508	516	496	480	480	18 50	569	439	23 59	130	17 **
486	486	486	486	488	490	496	495	472	472	22 47	498	438	2 16	112	18 **
495	488	490	488	489	482	479	479	479	479	16 10	498	451	3 58	47	19
484	486	485	486	489	484	479	478	474	474	20 43	491	455	12 2	36	20
484	481	482	488	481	479	479	479	478	478	19 24	490	469	10 20	21	21
478	477	475	483	481	479	478	477	473	473	19 32	487	464	11 10	23	22
480	482	490	483	485	484	484	480	475	475	18 10	497	467	9 39	30	23
478	477	476	472	471	471	474	471	472	472	0 10	479	460	12 20	19	24
476	474	472	472	471	469	469	469	469	469	16 4	475	455	12 47	20	25 *
472	478	487	480	476	479	479	475	471	471	18 11	491	456	12 37	35	26
484	483	481	479	477	475	474	474	475	475	16 32	486	464	9 59	22	27
481	480	480	484	478	478	475	474	473	473	19 5	486	457	10 35	29	28
476	477	480	482	481	483	482	482	473	473	22 20	485	452	12 54	33	29
470	472	479	483	484	481	478	477	472	472	19 53	486	447	12 56	39	30
470	471	473	479	474	470	470	468	470	470	19 50	480	456	12 2	24	31
481	483	487	488	486	485	484	479	475	475	-	501	454	-	47.1	Mean
473	473	472	472	471	471	471	470	469	469	-	478	454	-	23.2	Mean *
497	500	523	521	514	515	514	498	484	484	-	558	435	-	122.6	Mean **

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.

TABLE IV. - K-INDICES

Date	January			February			March			April			May		June			
	Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum	Indices	Sum		
1	5543	3353	31	3022	2113	14	4101	2112	12	3323	3343	24	3233	2444	25	6543	3443	32
2	4323	3222	21	3122	2111	13	1222	2002	11	3344	4543	30	3323	2231	19	4334	4430	25
3	2102	2111	10	0102	3112	10	0123	3354	21	4332	2344	25	1212	2223	15	0111	2311	10
4	1102	2002	8	3002	3353	19	4443	3343	28	3333	4355	29	3222	2123	17	1312	1210	11
5	3202	2100	10	3433	4355	30	3353	3334	27	4433	2333	25	2211	1434	18	0122	3411	14
6	1112	3211	12	3334	4424	27	4433	3345	29	4223	3334	24	3322	1311	16	0232	2434	20
7	2212	2011	11	3333	3444	27	3433	3333	25	2322	3333	21	1221	1123	13	5555	3343	33
8	1011	3211	10	3443	3344	28	4332	3132	21	2222	3323	19	2221	3323	18	1112	2443	18
9	1112	3243	17	3222	3443	23	4333	3332	24	2311	2222	15	2143	2221	17	4233	3455	29
10	4112	3212	16	4323	2544	27	4322	3333	23	1012	1122	10	3224	3443	25	4333	3334	26
11	3213	3342	21	9787	7445	51	4123	3355	26	2213	2123	16	0023	3330	14	3333	3333	24
12	2323	3223	20	5454	3463	34	5553	3433	31	0012	1222	10	0022	2444	18	1433	3422	22
13	3323	2244	23	3123	4343	23	4443	3342	27	1121	1211	10	3233	4434	26	2321	2332	18
14	1123	2335	20	4432	3423	25	3102	5422	19	2133	4433	23	5342	3344	28	2122	3154	20
15	1133	3233	19	1023	2324	17	1344	2322	21	4442	2343	26	3432	2453	26	2443	3320	21
16	0222	3233	17	3013	3433	20	4323	2223	21	3333	3444	27	3321	3422	20	3132	3321	18
17	2333	3434	25	3332	4443	26	3234	4352	26	5333	4455	32	3423	3343	25	1211	1111	9
18	4444	4342	29	3433	3343	26	2342	4443	26	4543	3445	32	4233	3433	25	0011	3332	13
19	3222	2232	18	4333	3244	26	3344	4455	32	3223	3344	24	1342	2233	20	1121	2432	16
20	1123	3335	21	3333	4254	27	5433	3455	32	3332	2324	22	2111	2122	12	2001	2223	12
21	5534	2221	24	3333	4245	27	4432	4435	29	1322	2324	19	3320	1121	13	3445	5654	36
22	2234	4232	22	3334	3244	26	6322	3224	24	2121	2110	10	1111	3201	10	5444	3244	30
23	3333	3333	24	4333	3333	25	4324	3352	26	0012	2433	15	2100	0120	6	3321	2331	18
24	0113	3312	14	2212	2221	14	3322	3554	27	3341	2322	20	0001	2100	4	3333	2333	23
25	2223	4432	22	0232	2000	9	4333	3544	29	4321	3210	16	0222	1444	19	3224	4433	25
26	2422	1333	20	2223	2210	14	2223	4533	24	0011	2542	15	4333	5424	28	2222	2322	17
27	2111	0124	12	3112	2234	18	3222	2324	20	0121	2343	16	3323	4434	26	2122	1223	15
28	1023	2212	13	2233	3221	18	2232	3433	22	3333	3334	25	4332	3333	24	2343	3566	32
29	2432	2333	22				3223	3332	21	4433	3434	28	5444	4542	32	6653	5432	34
30	1223	2222	16				1034	4534	24	4343	3334	27	3322	2313	19	2221	1332	16
31	2012	2123	13				3333	3332	23				3312	3667	31			

FOR THE YEAR 1958

Date	July			August			September			October			November			December		
	Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum	
1	4333	3311	21	2214	4333	22	0013	3310	11	1343	2234	22	1022	3222	14	0001	1110	4
2	0111	2332	13	2223	3322	19	1112	2110	9	3332	1113	17	1012	2542	17	1012	3355	20
3	3133	2432	21	3322	2210	15	2244	5555	32	2433	3442	25	3322	3122	18	3211	0000	7
4	1333	3533	24	1111	1210	8	4433	5878	42	1121	2002	9	2213	4132	18	3234	4565	32
5	3223	3323	21	1101	2211	9	6643	2453	33	4122	3223	19	0010	0000	1	6422	1112	19
6	2220	1210	10	1201	1222	11	2222	3211	15	1212	3233	17	0000	0002	2	1013	3313	15
7	0123	4343	20	1122	3331	16	1222	2343	19	2222	2334	20	0012	2212	10	1122	1101	9
8	2287	7979	51	1111	3301	11	4223	2315	22	3322	1113	16	0111	1101	6	0002	2243	13
9	5544	5534	35	2211	2323	16	3223	4334	24	1111	2111	9	0221	0101	7	3232	2101	14
10	4322	2223	20	2233	3433	23	3222	3323	20	0011	1211	7	0223	2332	17	0121	1000	5
11	3222	2243	20	3333	2233	22	2222	1221	14	2121	2123	14	4421	2110	15	1112	2114	13
12	4334	3431	25	2223	1133	17	2112	1210	10	1011	1111	7	0102	3232	13	2101	3113	12
13	3342	1414	22	3233	2311	18	0011	1211	7	0123	1221	12	2211	1101	9	5532	5565	36
14	3333	2321	20	2221	1333	17	0022	1111	8	1212	3212	14	1000	0103	5	3212	4344	23
15	1211	2222	13	2322	2321	17	0013	2232	13	3222	2222	17	2121	2001	9	1102	1333	14
16	2221	2323	17	4332	3431	23	3334	4444	29	1322	2111	13	2222	1201	12	3323	3220	18
17	4443	2210	20	0164	6674	34	3323	3211	18	1221	2222	14	1222	1212	13	1002	2564	20
18	3343	5543	30	3343	3321	22	0002	1221	8	2321	2212	15	1021	2233	14	6522	3123	24
19	2342	2244	23	3323	2322	20	0012	2011	7	1222	2322	16	1101	1100	5	4323	3332	23
20	4433	3432	26	1121	2221	12	1111	1122	10	3111	1123	13	1101	1100	5	2333	3333	23
21	3332	3665	31	1103	2222	13	1011	1121	8	1221	1111	10	1001	0101	4	2122	2131	14
22	4332	5431	25	5553	4332	30	1001	1121	7	1443	3555	30	1101	1000	4	3011	2133	14
23	1122	3112	13	0333	3323	20	1122	0013	10	4443	3454	31	1102	3201	10	0012	3342	15
24	3311	4533	23	6655	5432	36	2001	2113	10	3454	4655	36	0012	3222	12	2112	1012	10
25	2233	3444	25	4332	4221	21	4454	5556	38	3232	1211	15	0110	2333	13	0001	1113	7
26	4223	2122	18	1333	3232	20	4433	3333	26	0122	1242	14	3201	2232	15	2111	3443	19
27	2333	4243	24	3555	4453	34	2112	2223	15	3211	1365	22	1211	2332	15	2222	3301	15
28	4231	1123	17	1132	2332	17	3322	2200	14	3244	4444	29	3333	3222	21	3223	3332	21
29	2201	2242	15	2233	3233	21	0123	2000	8	3222	2354	23	3312	2301	15	2112	3122	14
30	2123	3434	22	2223	3222	18	2013	3354	21	3223	2335	23	0001	1000	2	2102	3332	16
31	2122	2532	19	1221	2310	12				2222	2322	17				2102	2120	10

TABLE V. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

All Days													
DECLINATION WEST (Unit 0'.01)													
Month and Season, 1958	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-274	-280	-247	-260	-233	-206	-160	-203	-268	-229	-97	+46	+296
February	-243	-176	-51	-282	-277	-266	-239	-180	-148	-82	+95	+296	+460
March	-306	-388	-412	-340	-361	-345	-249	-354	-461	-379	-120	+292	+620
April	-212	-261	-303	-401	-410	-445	-489	-583	-594	-422	-86	+292	+687
May	-96	-191	-264	-268	-350	-503	-698	-752	-696	-455	-76	+301	+674
June	-138	-196	-266	-348	-423	-604	-740	-789	-652	-426	-20	+333	+647
July	-84	-120	-207	-288	-349	-486	-673	-736	-651	-487	-198	+139	+520
August	-72	-84	-121	-215	-248	-459	-621	-676	-663	-448	-41	+358	+692
September	-233	-258	-288	-305	-285	-355	-451	-546	-596	-469	-46	+404	+757
October	-253	-235	-176	-166	-189	-174	-181	-293	-475	-489	-251	+184	+521
November	-176	-168	-157	-143	-148	-150	-160	-193	-276	-297	-115	+123	+338
December	-251	-300	-257	-188	-119	-95	-96	-116	-139	-133	+11	+172	+297
Year	-195	-221	-229	-267	-283	-341	-396	-452	-468	-360	-79	+245	+542
Winter	-236	-231	-178	-218	-194	-179	-164	-173	-208	-185	-27	+159	+348
Equinox	-251	-285	-295	-303	-311	-330	-342	-444	-531	-440	-126	+293	+646
Summer	-97	-148	-215	-280	-343	-513	-683	-738	-665	-454	-84	+283	+633
INCLINATION (Unit 0'.01)													
January	-2	-13	-24	-36	-83	-95	-92	-76	-35	+17	+60	+87	+101
February	-56	-67	-114	-59	-72	-94	-78	-47	-1	+48	+87	+103	+93
March	-99	-75	-67	-97	-107	-103	-101	-57	-1	+65	+122	+138	+137
April	-39	-29	-45	-49	-46	-45	-30	-4	+22	+72	+129	+156	+117
May	-65	-63	-28	-24	-33	-16	+18	+65	+96	+121	+131	+124	+122
June	-42	-60	-65	-75	-57	-33	+12	+99	+156	+186	+177	+151	+117
July	-29	-26	-38	-38	-38	-31	+13	+99	+162	+154	+161	+162	+95
August	-87	-87	-94	-80	-61	-31	+22	+94	+156	+191	+203	+169	+109
September	-63	-68	-71	-79	-78	-68	-23	+24	+81	+139	+168	+143	+108
October	-86	-69	-69	-98	-117	-112	-104	-74	+6	+96	+160	+174	+169
November	-35	-37	-44	-51	-64	-83	-84	-71	-29	+23	+76	+103	+109
December	-34	-31	-32	-30	-48	-67	-72	-66	-45	-8	+17	+21	+23
Year	-53	-52	-58	-60	-67	-65	-43	-1	+47	+92	+124	+128	+108
Winter	-32	-37	-54	-44	-67	-85	-82	-65	-28	+20	+60	+78	+82
Equinox	-72	-60	-63	-81	-87	-82	-64	-28	+27	+93	+145	+153	+133
Summer	-56	-59	-56	-54	-47	-28	+16	+89	+142	+156	+168	+152	+111
HORIZONTAL INTENSITY (Unit 0.1γ)													
January	+23	+29	+34	+45	+106	+117	+113	+96	+35	-53	-117	-164	-201
February	+89	+94	+131	+64	+90	+114	+89	+35	-40	-116	-173	-197	-172
March	+141	+90	+68	+102	+121	+121	+117	+70	-18	-135	-249	-302	-299
April	+71	+52	+69	+68	+60	+56	+43	+9	-44	-157	-280	-352	-307
May	+106	+92	+39	+31	+54	+43	-9	-97	-172	-252	-312	-328	-317
June	+53	+72	+68	+79	+72	+42	-26	-160	-263	-338	-355	-335	-278
July	+46	+31	+41	+43	+53	+53	-11	-148	-265	-288	-336	-369	-268
August	+143	+140	+141	+114	+89	+62	-10	-125	-245	-337	-392	-364	-278
September	+83	+94	+94	+102	+103	+104	+51	-16	-121	-243	-332	-326	-270
October	+124	+100	+98	+138	+164	+153	+146	+113	-4	-156	-289	-344	-333
November	+64	+63	+68	+77	+96	+121	+118	+100	+40	-54	-157	-208	-213
December	+49	+35	+27	+24	+57	+86	+94	+84	+51	-16	-67	-76	-79
Year	+83	+74	+73	+74	+89	+89	+60	-3	-87	-179	-254	-280	-251
Winter	+56	+55	+65	+53	+87	+109	+103	+79	+21	-60	-129	-161	-166
Equinox	+105	+84	+82	+103	+112	+109	+89	+44	-47	-173	-287	-331	-302
Summer	+87	+84	+72	+67	+67	+50	-14	-133	-236	-304	-349	-349	-285

DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

All Days

DECLINATION WEST (Unit 0.'01)

											Month and Season, 1958	
											Range	
											Universal Time. Hour commencing	
13	14	15	16	17	18	19	20	21	22	23		
+497	+503	+386	+383	+380	+308	+176	- 6	-126	-179	-216	7. 83	January
+511	+490	+389	+294	+198	+ 79	+ 11	-113	-187	-279	-292	8. 03	February
+819	+879	+729	+530	+323	+167	+ 69	- 58	-143	-248	-275	13. 40	March
+926	+923	+784	+567	+339	+144	+ 19	- 59	- 75	-108	-234	15. 20	April
+881	+876	+719	+503	+315	+125	- 10	+ 48	+ 38	- 44	- 82	16. 33	May
+783	+816	+709	+566	+371	+222	+100	+ 92	+ 68	- 8	- 88	16. 05	June
+725	+787	+705	+523	+340	+242	+143	+ 78	+141	+ 10	- 71	15. 23	July
+865	+796	+629	+369	+116	- 41	- 51	- 20	+ 7	- 22	- 48	15. 41	August
+900	+825	+619	+439	+177	+107	+ 48	- 12	- 86	-134	-205	14. 96	September
+701	+688	+585	+406	+248	+191	+ 96	- 70	-154	-288	-237	11. 90	October
+440	+442	+383	+312	+227	+142	+ 64	- 25	-108	-164	-184	7. 39	November
+407	+390	+337	+318	+293	+160	+ 20	- 45	-160	-260	-241	7. 07	December
+705	+701	+581	+434	+277	+154	+ 57	- 16	- 65	-144	-181	12. 40	Year
+464	+456	+374	+327	+275	+172	+ 68	- 47	-145	-220	-233	7. 58	Winter
+837	+829	+679	+485	+272	+152	+ 58	- 50	-115	-195	-238	13. 87	Equinox
+813	+819	+691	+490	+285	+137	+ 45	+ 49	+ 63	- 16	- 72	15. 75	Summer

INCLINATION (Unit 0.'01)

+ 95	+ 96	+ 67	+ 28	+ 13	- 9	- 17	- 21	- 22	- 20	- 27	1. 96	January
+ 70	+ 63	+ 77	+ 85	+ 47	+ 8	- 13	- 12	- 7	- 14	- 47	2. 17	February
+115	+ 83	+ 79	+ 40	+ 35	+ 42	- 16	- 20	- 37	- 29	- 54	2. 45	March
+ 98	+ 77	+ 27	- 9	- 19	- 58	- 72	- 76	- 60	- 61	- 57	2. 32	April
+100	+ 59	+ 14	- 47	-109	-110	- 90	- 72	- 76	- 68	- 56	2. 41	May
+106	+ 83	+ 50	+ 3	- 57	-127	-159	-155	-139	-112	- 65	3. 45	June
+ 78	+ 63	- 22	-114	-129	-129	-110	- 83	- 91	- 65	- 47	2. 91	July
+ 60	+ 51	+ 19	- 25	- 49	- 73	-103	-107	- 99	- 94	- 86	3. 10	August
+ 57	+ 53	+ 40	- 9	- 27	- 46	- 38	- 53	- 42	- 66	- 85	2. 53	September
+129	+ 84	+ 51	+ 45	+ 13	+ 1	- 7	- 15	- 40	- 62	- 80	2. 91	October
+ 97	+ 81	+ 74	+ 50	+ 22	+ 4	- 23	- 26	- 28	- 25	- 33	1. 93	November
+ 40	+ 58	+ 64	+ 47	+ 33	+ 51	+ 24	+ 47	+ 14	+ 2	+ 2	1. 36	December
+ 87	+ 71	+ 45	+ 8	- 19	- 37	- 52	- 49	- 52	- 51	- 53	2. 46	Year
+ 76	+ 74	+ 70	+ 52	+ 29	+ 14	- 7	- 3	- 11	- 14	- 26	1. 85	Winter
+100	+ 74	+ 49	+ 17	0	- 15	- 33	- 41	- 45	- 54	- 69	2. 55	Equinox
+ 86	+ 64	+ 15	- 46	- 86	-110	-116	-104	-101	- 85	- 64	2. 97	Summer

HORIZONTAL INTENSITY (Unit 0.1Y)

											Y	Month and Season, 1958
-172	-139	- 82	- 27	- 3	+ 42	+ 63	+ 74	+ 69	+ 59	+ 63	31. 8	January
-120	- 95	- 88	- 82	- 20	+ 48	+ 81	+ 75	+ 53	+ 55	+ 90	32. 8	February
-239	-142	- 81	+ 30	+ 55	+ 44	+114	+104	+111	+ 83	+100	44. 3	March
-247	-160	- 26	+ 73	+118	+189	+200	+188	+145	+126	+104	55. 2	April
-241	-119	- 2	+142	+261	+273	+239	+184	+161	+134	+ 99	60. 1	May
-229	-140	- 37	+ 68	+189	+305	+343	+311	+259	+194	+116	68. 1	June
-210	-128	+ 89	+271	+298	+304	+258	+207	+153	+103	+ 78	67. 3	July
-180	-114	- 10	+100	+156	+189	+219	+206	+183	+167	+149	61. 1	August
-158	- 98	- 22	+100	+139	+152	+128	+138	+ 87	+107	+115	48. 4	September
-250	-152	- 63	- 22	+ 39	+ 53	+ 70	+ 72	+100	+120	+126	50. 8	October
-178	-131	- 98	- 51	- 4	+ 23	+ 61	+ 65	+ 66	+ 58	+ 63	33. 4	November
- 85	- 89	- 81	- 45	- 17	- 26	- 17	+ 14	+ 21	+ 32	+ 13	18. 3	December
-192	-126	- 42	+ 46	+101	+133	+147	+137	+117	+103	+ 93	47. 6	Year
-139	-113	- 87	- 51	- 11	+ 22	+ 47	+ 57	+ 52	+ 51	+ 57	29. 1	Winter
-223	-138	- 48	+ 45	+ 88	+110	+128	+125	+111	+109	+111	49. 7	Equinox
-215	-125	+ 10	+145	+226	+268	+265	+227	+189	+149	+111	64. 1	Summer

TABLE V. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL

All Days

Month and Season, 1958	NORTH COMPONENT (Unit 0.1Y)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 49	+ 55	+ 57	+ 69	+127	+135	+127	+114	+ 60	- 30	-106	-166	-226
February	+111	+109	+134	+ 90	+115	+138	+110	+ 52	- 25	-106	-179	-222	-213
March	+168	+125	+106	+133	+154	+152	+139	+103	+ 27	- 96	-234	-325	-354
April	+ 90	+ 76	+ 97	+105	+ 98	+ 98	+ 89	+ 65	+ 14	-114	-267	-374	-368
May	+114	+109	+ 64	+ 56	+ 87	+ 91	+ 58	- 23	-103	-204	-300	-352	-377
June	+ 65	+ 90	+ 92	+111	+111	+ 99	+ 45	- 82	-196	-292	-347	-362	-336
July	+ 53	+ 42	+ 60	+ 70	+ 86	+ 99	+ 54	- 75	-198	-237	-312	-376	-314
August	+148	+146	+150	+133	+111	+105	+ 50	- 58	-177	-289	-382	-393	-340
September	+104	+117	+120	+130	+129	+136	+ 93	+ 37	- 62	-194	-322	-360	-338
October	+146	+121	+113	+152	+180	+167	+161	+139	+ 42	-107	-260	-356	-378
November	+ 80	+ 78	+ 82	+ 89	+109	+133	+131	+117	+ 66	- 25	-143	-216	-242
December	+ 72	+ 63	+ 51	+ 42	+ 68	+ 94	+102	+ 94	+ 64	- 3	- 67	- 91	-106
Year	+100	+ 94	+ 94	+ 98	+115	+121	+ 97	+ 40	- 41	-141	-243	-299	-299
Winter	+ 78	+ 76	+ 81	+ 72	+105	+125	+118	+ 94	+ 41	- 41	-124	-174	-197
Equinox	+127	+110	+109	+130	+140	+138	+120	+ 86	+ 5	-128	-271	-354	-360
Summer	+ 95	+ 97	+ 92	+ 92	+ 99	+ 98	+ 52	- 60	-168	-256	-335	-371	-342
	WEST COMPONENT (Unit 0.1Y)												
January	-142	-144	-126	-131	-106	- 89	- 65	- 91	-137	-132	- 73	- 4	+123
February	-114	- 77	- 4	-139	-132	-122	-112	- 90	- 86	- 64	+ 20	+123	+215
March	-138	-191	-208	-164	-171	-163	-112	-177	-249	-226	-108	+103	+278
April	-101	-130	-150	-202	-208	-228	-254	-310	-325	-253	- 95	+ 94	+313
May	- 33	- 84	-134	-138	-177	-261	-374	-419	-402	-288	- 96	+103	+304
June	- 64	- 92	-130	-172	-213	-315	-400	-450	-380	-287	- 74	+119	+296
July	- 37	- 59	-103	-146	-177	-250	-361	-419	-395	-311	-165	+ 9	+230
August	- 13	- 20	- 40	- 95	-117	-234	-333	-383	-397	-299	- 91	+127	+320
September	-110	-121	-137	-145	-134	-171	-231	-294	-340	-294	- 83	+158	+357
October	-113	-108	- 77	- 64	- 72	- 66	- 71	-136	-254	-289	-185	+ 37	+219
November	- 83	- 79	- 72	- 63	- 62	- 59	- 65	- 85	-140	-168	- 80	+ 29	+143
December	-125	-154	-132	- 96	- 53	- 36	- 35	- 47	- 65	- 74	- 6	+ 78	+145
Year	- 89	-105	-109	-130	-135	-166	-201	-242	-264	-224	- 86	+ 81	+245
Winter	-116	-113	- 84	-107	- 88	- 77	- 69	- 78	-107	-110	- 35	+ 57	+157
Equinox	-116	-138	-143	-144	-146	-157	-167	-229	-292	-266	-118	+ 98	+292
Summer	- 37	- 64	-102	-138	-171	-265	-367	-418	-394	-296	-106	+ 90	+288
	VERTICAL COMPONENT (Unit 0.1Y)												
January	+ 47	+ 22	- 4	- 20	- 41	- 59	- 58	- 43	- 39	- 63	- 65	- 78	-117
February	+ 9	- 15	- 93	- 56	- 43	- 61	- 65	- 84	- 96	-102	-100	- 99	- 76
March	- 16	- 53	- 74	- 96	- 90	- 78	- 79	- 34	- 44	- 87	-153	-222	-217
April	+ 31	+ 21	+ 3	- 11	- 21	- 27	- 5	+ 8	- 26	-114	-203	-277	-307
May	+ 17	- 5	- 8	- 10	+ 12	+ 43	+ 41	0	- 65	-164	-268	-332	-313
June	- 24	- 41	- 67	- 76	- 32	- 16	- 17	- 27	- 68	-137	-208	-255	-238
July	+ 7	- 18	- 38	- 31	- 9	+ 15	+ 20	0	- 54	-132	-221	-294	-294
August	+ 28	+ 21	0	- 13	- 4	+ 37	+ 54	+ 36	- 27	-119	-206	-257	-268
September	- 25	- 17	- 29	- 39	- 33	+ 5	+ 37	+ 45	+ 2	- 83	-187	-262	-253
October	- 11	- 8	- 12	- 22	- 25	- 33	- 24	+ 5	+ 13	- 30	-115	-194	-186
November	+ 27	+ 17	+ 5	+ 3	- 1	- 7	- 17	- 15	- 9	- 47	-100	-126	-116
December	- 3	- 27	- 50	- 47	- 36	- 35	- 32	- 34	- 39	- 66	- 97	-105	-104
Year	+ 7	- 9	- 31	- 35	- 27	- 19	- 12	- 12	- 38	- 95	-160	-208	-207
Winter	+ 20	- 1	- 35	- 30	- 30	- 41	- 43	- 44	- 46	- 69	- 91	-102	-103
Equinox	- 5	- 14	- 28	- 42	- 42	- 33	- 18	+ 6	- 14	- 79	-165	-239	-241
Summer	+ 7	- 11	- 28	- 33	- 8	+ 20	+ 25	+ 2	- 53	-138	-226	-285	-278

COMPONENTS OF MAGNETIC INTENSITY

All Days

NORTH COMPONENT (Unit 0.1γ)

Universal Time. Hour commencing											Range	Month and Season, 1958
13	14	15	16	17	18	19	20	21	22	23	γ	
-217	-185	-118	- 63	- 39	+ 12	+ 45	+ 73	+ 80	+ 75	+ 83	36.1	January
-167	-140	-124	-109	- 39	+ 40	+ 79	+ 85	+ 70	+ 83	+117	36.0	February
-314	-224	-150	- 21	+ 23	+ 27	+106	+108	+123	+105	+125	52.2	March
-332	-246	-101	+ 17	+ 84	+172	+195	+191	+150	+134	+125	56.9	April
-322	-201	- 71	+ 91	+227	+257	+236	+176	+155	+136	+105	63.4	May
-300	-216	-104	+ 13	+150	+279	+328	+297	+248	+192	+123	69.0	June
-276	-201	+ 21	+217	+260	+276	+231	+196	+137	+100	+ 84	65.2	July
-260	-189	- 70	+ 63	+142	+190	+220	+205	+179	+166	+151	61.3	August
-242	-176	- 81	+ 56	+120	+139	+121	+137	+ 94	+118	+133	49.9	September
-313	-216	-118	- 61	+ 15	+ 34	+ 60	+ 78	+113	+146	+147	55.8	October
-217	-171	-133	- 80	- 19	+ 9	+ 54	+ 66	+ 75	+ 73	+ 80	37.5	November
-123	-125	-112	- 75	- 45	- 41	- 19	+ 18	+ 36	+ 56	+ 36	22.7	December
-257	-191	- 97	+ 4	+ 73	+116	+138	+136	+122	+115	+109	50.5	Year
-181	-155	-122	- 82	- 36	+ 5	+ 40	+ 60	+ 65	+ 72	+ 79	33.1	Winter
-300	-216	-112	- 2	+ 60	+ 93	+120	+128	+120	+126	+132	53.7	Equinox
-290	-202	- 56	+ 96	+195	+250	+254	+218	+180	+148	+116	64.7	Summer

WEST COMPONENT (Unit 0.1γ)

											γ	
+235	+244	+192	+200	+202	+172	+105	+ 10	- 55	- 85	-104	38.8	January
+252	+245	+192	+143	+102	+ 51	+ 20	- 49	- 90	-139	-140	39.2	February
+395	+444	+375	+288	+182	+ 97	+ 57	- 13	- 57	- 18	-129	69.3	March
+451	+465	+414	+316	+202	+110	+ 46	+ 2	- 14	- 35	-107	79.0	April
+428	+447	+384	+294	+214	+115	+ 37	+ 58	+ 49	0	- 26	86.6	May
+365	+411	+372	+314	+232	+173	+114	+104	+ 82	+ 30	- 26	86.1	June
+350	+398	+392	+327	+234	+183	+122	+ 78	+102	+ 24	- 24	81.7	July
+430	+391	+334	+215	+ 90	+ 12	+ 12	+ 26	+ 36	+ 18	+ 1	82.7	August
+453	+423	+327	+252	+119	+ 84	+ 48	+ 18	- 31	- 53	- 89	79.3	September
+330	+341	+301	+213	+139	+111	+ 64	- 25	- 65	-133	-104	63.0	October
+203	+213	+187	+158	+121	+ 80	+ 45	- 2	- 46	- 77	- 87	38.1	November
+202	+193	+166	+162	+153	+ 81	+ 8	- 22	- 82	-133	-126	35.6	December
+341	+351	+303	+240	+166	+106	+ 56	+ 15	- 14	- 50	- 80	64.9	Year
+223	+224	+184	+166	+145	+ 96	+ 45	- 16	- 68	-109	-114	37.9	Winter
+407	+418	+354	+267	+160	+100	+ 54	- 4	- 42	- 60	-107	72.6	Equinox
+393	+412	+370	+288	+192	+121	+ 71	+ 66	+ 67	+ 18	- 19	84.3	Summer

VERTICAL COMPONENT (Unit 0.1γ)

											γ	
- 71	+ 10	+ 42	+ 33	+ 39	+ 67	+ 87	+ 99	+ 84	+ 67	+ 53	21.6	January
- 37	0	+ 62	+106	+118	+140	+143	+132	+ 99	+ 79	+ 45	24.5	February
-156	- 42	+ 85	+208	+252	+250	+209	+175	+131	+ 91	+ 45	47.4	March
-234	-103	+ 34	+140	+210	+239	+214	+172	+127	+ 80	+ 42	54.6	April
-213	- 72	+ 53	+167	+226	+253	+243	+178	+111	+ 75	+ 34	58.5	May
-165	- 35	+ 89	+167	+241	+266	+244	+183	+120	+ 61	+ 42	52.1	June
-216	- 80	+129	+235	+244	+257	+217	+193	+ 40	+ 13	+ 17	55.1	July
-210	- 89	+ 44	+146	+191	+186	+150	+107	+ 80	+ 62	+ 47	45.9	August
-168	- 45	+ 88	+200	+230	+193	+165	+137	+ 55	+ 18	- 27	49.2	September
-133	- 61	+ 32	+106	+136	+128	+139	+117	+ 93	+ 65	+ 13	33.3	October
- 78	- 21	+ 28	+ 57	+ 69	+ 67	+ 63	+ 59	+ 56	+ 47	+ 32	19.5	November
- 58	- 6	+ 33	+ 60	+ 75	+118	+123	+108	+ 99	+ 83	+ 38	22.8	December
-145	- 45	+ 60	+135	+169	+180	+166	+138	+ 91	+ 62	+ 32	40.4	Year
- 61	- 4	+ 41	+ 64	+ 75	+ 98	+104	+ 99	+ 85	+ 69	+ 42	22.1	Winter
-173	- 63	+ 60	+163	+207	+203	+182	+150	+101	+ 63	+ 18	46.1	Equinox
-201	- 69	+ 79	+179	+225	+241	+213	+165	+ 88	+ 53	+ 35	52.9	Summer

TABLE VI. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

International Quiet Days													
DECLINATION WEST (Unit 0.01)													
Month and Season, 1958	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-203	-185	-149	-105	-59	-109	-145	-195	-249	-263	-145	-67	+127
February	-134	-146	-168	-140	-116	-184	-154	-172	-252	-172	+50	+186	+356
March	-160	-248	-320	-242	-264	-294	-262	-406	-500	-366	-70	+242	+510
April	-83	-55	-37	-127	-217	-267	-417	-589	-643	-497	-257	+29	+367
May	-35	-121	-165	-209	-287	-447	-679	-755	-745	-541	-157	+289	+723
June	-13	-3	-97	-181	-323	-581	-807	-853	-723	-449	-13	+375	+673
July	+33	-65	-117	-193	-227	-511	-725	-733	-683	-451	-145	+173	+479
August	-44	-76	-126	-118	-236	-432	-618	-730	-708	-566	-250	+158	+576
September	-62	-94	-122	-150	-192	-286	-420	-578	-692	-572	-178	+238	+630
October	-125	-135	-129	-157	-183	-209	-265	-383	-581	-591	-347	+35	+421
November	-89	-115	-125	-113	-133	-149	-175	-233	-319	-329	-153	+91	+305
December	-72	-68	-106	-118	-114	-116	-140	-172	-206	-220	-74	+98	+212
Year	-82	-109	-138	-154	-196	-299	-401	-483	-525	-418	-145	+154	+448
Winter	-125	-129	-137	-119	-105	-139	-153	-193	-257	-246	-81	+77	+250
Equinox	-107	-133	-152	-169	-214	-264	-341	-489	-604	-507	-213	+136	+482
Summer	-15	-66	-126	-175	-268	-493	-707	-768	-715	-502	-141	+249	+613
INCLINATION (Unit 0.01)													
January	-7	+17	+4	-7	-32	-59	-73	-77	-64	-42	-1	+46	+82
February	-40	-29	-29	-30	-38	-40	-42	-62	-18	+44	+120	+132	+128
March	-89	-48	-32	-27	-61	-68	-67	-31	+32	+95	+133	+159	+134
April	-6	-14	-17	-20	-7	-14	-32	-30	-28	+43	+102	+146	+130
May	-48	-33	-4	-8	-16	-15	+9	+37	+91	+122	+129	+113	+100
June	-31	-39	-24	-18	-15	-14	+23	+68	+110	+127	+146	+132	+121
July	-28	-3	-8	-13	-19	-19	+22	+56	+114	+144	+146	+107	+74
August	-68	-70	-49	-53	-42	-15	+34	+97	+145	+189	+207	+168	+115
September	-43	-37	-34	-32	-32	-21	+6	+46	+103	+167	+179	+142	+94
October	-49	-30	-38	-52	-48	-47	-49	-26	+31	+115	+166	+187	+167
November	-25	-29	-21	-20	-30	-39	-38	-20	+21	+76	+123	+131	+106
December	+5	+7	0	+10	-12	-29	-30	-11	+15	+35	+61	+62	+50
Year	-36	-26	-21	-22	-29	-32	-20	+4	+46	+93	+126	+127	+108
Winter	-17	-8	-12	-12	-28	-42	-46	-43	-11	+28	+76	+93	+92
Equinox	-47	-32	-30	-33	-37	-37	-36	-10	+35	+105	+145	+159	+131
Summer	-44	-36	-21	-23	-23	-16	+22	+65	+115	+145	+157	+130	+103
HORIZONTAL INTENSITY (Unit 0.1γ)													
January	+27	-11	+7	+21	+55	+93	+109	+115	+87	+37	-27	-97	-169
February	+65	+51	+51	+49	+59	+63	+67	+91	+31	-65	-187	-211	-209
March	+156	+74	+48	+38	+90	+104	+110	+76	-24	-148	-246	-320	-292
April	+44	+52	+54	+60	+40	+52	+84	+80	+52	-92	-210	-310	-310
May	+99	+75	+35	+49	+71	+83	+47	-19	-131	-233	-303	-321	-305
June	+68	+78	+58	+60	+68	+76	+8	-92	-192	-264	-326	-320	-290
July	+49	+13	+23	+31	+45	+59	-5	-67	-179	-257	-293	-267	-221
August	+124	+122	+96	+106	+104	+84	+8	-100	-204	-308	-380	-378	-326
September	+93	+87	+83	+83	+83	+71	+35	-27	-131	-271	-335	-323	-247
October	+98	+70	+78	+98	+90	+88	+92	+66	-16	-160	-290	-358	-336
November	+53	+59	+43	+43	+57	+67	+65	+41	-17	-119	-215	-245	-211
December	+7	+7	+19	+1	+31	+51	+49	+15	-25	-67	-125	-129	-113
Year	+74	+56	+50	+53	+66	+74	+56	+15	-62	-162	-245	-273	-252
Winter	+38	+27	+30	+29	+51	+69	+73	+65	+19	-53	-139	-171	-175
Equinox	+98	+71	+66	+70	+76	+79	+80	+49	-30	-168	-270	-328	-296
Summer	+85	+72	+53	+61	+72	+75	+15	-69	-177	-265	-326	-321	-285

DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

International Quiet Days

DECLINATION WEST (Unit 0.01)

											Range	Month and Season, 1958
Universal Time. Hour commencing												
13	14	15	16	17	18	19	20	21	22	23		
+411	+443	+283	+281	+259	+187	+ 91	- 5	- 29	- 67	-101	7.06	January
+300	+292	+212	+160	+144	+ 84	+ 86	+ 58	- 42	- 88	-152	6.08	February
+648	+616	+460	+308	+138	+ 96	+148	+142	+ 66	- 96	-150	11.48	March
+619	+633	+511	+341	+165	+103	+123	+157	+139	+ 13	- 17	12.76	April
+927	+859	+665	+397	+181	+ 29	+ 29	+ 41	+ 15	- 3	- 3	16.82	May
+777	+765	+649	+465	+253	+ 85	+ 39	+ 29	- 9	- 13	- 39	16.30	June
+663	+655	+589	+419	+293	+229	+137	+103	+ 75	+ 43	- 33	13.96	July
+808	+778	+628	+386	+210	+120	+104	+ 96	+ 38	- 6	0	15.38	August
+802	+708	+466	+244	+114	+108	+ 18	+ 16	- 4	+ 2	- 2	14.94	September
+629	+629	+523	+355	+237	+151	+115	+ 89	- 11	- 27	- 33	12.20	October
+355	+367	+287	+221	+167	+133	+105	+ 47	+ 13	- 77	- 71	6.96	November
+322	+294	+234	+208	+140	+130	+ 56	- 10	- 50	-130	-102	5.42	December
+605	+587	+459	+315	+192	+121	+ 88	+ 64	+ 17	- 37	- 59	11.61	Year
+347	+349	+254	+217	+177	+133	+ 85	+ 23	- 27	- 91	-107	6.38	Winter
+675	+647	+490	+312	+163	+115	+101	+101	+ 47	- 27	- 51	12.85	Equinox
+794	+764	+633	+417	+234	+116	+ 77	+ 67	+ 30	+ 5	- 19	15.61	Summer

INCLINATION (Unit 0.01)

+ 99	+119	+ 93	+ 61	+ 42	+ 2	- 22	- 36	- 45	- 47	- 45	1.96	January
+128	+ 83	+ 75	+ 55	+ 7	- 45	- 70	- 74	- 72	- 87	- 95	2.27	February
+100	+ 64	+ 38	- 14	- 10	- 15	- 51	- 73	- 75	- 39	- 63	2.48	March
+ 99	+ 62	+ 26	- 10	- 27	- 34	- 68	- 83	- 90	- 61	- 67	2.36	April
+ 67	+ 52	- 3	- 45	- 51	- 52	- 59	- 91	- 90	- 98	- 98	2.27	May
+ 99	+ 78	+ 37	- 8	- 35	-119	-133	-146	-144	-128	- 82	2.92	June
+ 60	+ 44	+ 11	- 27	- 76	-111	-100	- 98	-115	- 94	- 73	2.61	July
+ 43	+ 30	+ 19	- 43	- 81	- 85	-100	-116	-113	-112	- 97	3.23	August
+120	+ 10	- 7	- 33	- 55	- 70	- 86	- 87	- 80	- 91	- 84	2.70	September
+128	+ 88	+ 36	- 3	- 45	- 74	- 92	- 75	-100	-100	- 87	2.87	October
+ 73	+ 44	+ 41	+ 7	- 26	- 49	- 65	- 70	- 66	- 60	- 58	2.01	November
+ 34	+ 33	+ 43	+ 28	- 8	- 34	- 54	- 59	- 50	- 41	- 45	1.21	December
+ 81	+ 59	+ 34	- 3	- 30	- 57	- 75	- 84	- 87	- 80	- 75	2.41	Year
+ 84	+ 70	+ 63	+ 38	+ 4	- 31	- 53	- 60	- 58	- 59	- 61	1.86	Winter
+ 92	+ 56	+ 23	- 15	- 34	- 48	- 74	- 80	- 86	- 73	- 75	2.60	Equinox
+ 67	+ 51	+ 16	- 31	- 61	- 92	- 98	-113	-115	-108	- 87	2.76	Summer

HORIZONTAL INTENSITY (Unit 0.1γ)

											Y	
-191	-181	-121	- 75	- 49	+ 15	+ 53	+ 69	+ 77	+ 75	+ 71	30.6	January
-193	-143	-117	- 81	- 7	+ 75	+111	+119	+117	+131	+137	34.8	February
-230	-144	- 70	+ 38	+ 56	+ 66	+112	+138	+146	+100	+132	47.6	March
-246	-150	- 64	+ 20	+ 70	+ 84	+130	+150	+162	+124	+130	47.2	April
-223	-147	- 5	+101	+143	+147	+143	+177	+167	+173	+167	49.8	May
-226	-154	- 50	+ 48	+114	+252	+262	+252	+234	+200	+128	58.8	June
-171	- 99	- 7	+ 87	+175	+233	+207	+189	+199	+153	+115	52.6	July
-202	-124	- 42	+ 94	+172	+182	+196	+214	+206	+194	+164	59.4	August
-147	- 71	- 1	+ 59	+ 99	+119	+157	+155	+141	+155	+145	49.2	September
-262	-176	- 70	+ 12	+ 82	+126	+150	+126	+170	+166	+148	52.8	October
-147	- 83	- 59	- 1	+ 49	+ 83	+105	+113	+111	+105	+ 97	35.8	November
- 79	- 63	- 61	- 27	+ 29	+ 61	+ 91	+ 97	+ 83	+ 69	+ 71	22.6	December
-193	-128	- 56	+ 23	+ 78	+120	+143	+150	+151	+137	+125	45.1	Year
-153	-117	- 89	- 46	+ 5	+ 59	+ 90	+ 99	+ 97	+ 95	+ 94	30.9	Winter
-221	-135	- 51	+ 32	+ 77	+ 99	+137	+142	+155	+136	+139	49.2	Equinox
-206	-131	- 26	+ 83	+151	+203	+202	+208	+201	+180	+143	55.1	Summer

TABLE VI. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL
International Quiet Days

Month and Season, 1958	NORTH COMPONENT (Unit 0.1γ)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 46	+ 7	+ 21	+ 31	+ 60	+102	+121	+132	+109	+ 62	- 13	- 89	-178
February	+ 77	+ 64	+ 66	+ 62	+ 69	+ 80	+ 81	+106	+ 55	- 47	-189	-225	-240
March	+169	+ 97	+ 78	+ 61	+114	+131	+133	+114	+ 24	-111	-235	-338	-336
April	+ 51	+ 56	+ 57	+ 71	+ 60	+ 77	+123	+135	+113	- 43	-182	-308	-340
May	+101	+ 85	+ 50	+ 68	+ 97	+125	+111	+ 54	- 57	-177	-283	-344	-369
June	+ 68	+ 77	+ 66	+ 76	+ 98	+131	+ 85	- 9	-120	-217	-320	-351	-350
July	+ 45	+ 19	+ 34	+ 49	+ 66	+107	+ 65	+ 4	-111	-210	-274	-279	-263
August	+126	+127	+107	+116	+125	+124	+ 67	- 28	-133	-249	-350	-387	-376
September	+ 97	+ 95	+ 93	+ 96	+100	+ 97	+ 75	+ 29	- 63	-212	-313	-341	-303
October	+108	+ 82	+ 89	+112	+106	+107	+116	+102	+ 40	-101	-252	-356	-371
November	+ 61	+ 69	+ 54	+ 53	+ 69	+ 80	+ 81	+ 63	+ 14	- 86	-197	-250	-237
December	+ 14	+ 13	+ 29	+ 12	+ 41	+ 61	+ 62	+ 31	- 5	- 45	-116	-136	-132
Year	+ 80	+ 66	+ 62	+ 67	+ 84	+102	+ 93	+ 61	- 11	-120	-227	-284	-291
Winter	+ 49	+ 38	+ 43	+ 39	+ 60	+ 81	+ 86	+ 83	+ 43	- 29	-129	-175	-197
Equinox	+106	+ 83	+ 79	+ 85	+ 95	+103	+112	+ 95	+ 28	-117	-245	-336	-338
Summer	+ 85	+ 77	+ 64	+ 77	+ 97	+122	+ 82	+ 5	-105	-213	-307	-340	-339
	WEST COMPONENT (Unit 0.1γ)												
January	-104	-101	- 78	- 52	- 22	- 42	- 58	- 84	-118	-134	- 82	- 53	+ 38
February	- 60	- 69	- 81	- 66	- 52	- 87	- 70	- 76	-129	-104	- 6	+ 62	+153
March	- 58	-119	-162	-123	-125	-139	-120	-203	-271	-222	- 81	+ 73	+221
April	- 37	- 20	- 10	- 57	-109	-133	-208	-300	-334	-282	-174	- 39	+141
May	- 1	- 51	- 82	-103	-141	-224	-354	-407	-421	-330	-137	+ 98	+332
June	+ 5	+ 12	- 42	- 86	-160	-297	-430	-472	-420	-287	- 65	+144	+308
July	+ 26	- 32	- 58	- 98	-113	-262	-388	-403	-396	-286	-129	+ 45	+217
August	- 2	- 19	- 50	- 44	-108	-216	-329	-408	-414	-357	-201	+ 17	+250
September	- 17	- 35	- 50	- 65	- 88	-140	-218	-313	-393	-353	-154	+ 70	+293
October	- 50	- 60	- 53	- 67	- 82	- 96	-125	-193	-313	-344	-237	- 45	+165
November	- 38	- 51	- 59	- 53	- 61	- 68	- 82	-117	-173	-197	-120	+ 5	+126
December	- 37	- 35	- 53	- 63	- 55	- 53	- 66	- 89	-114	-129	- 62	+ 30	+ 93
Year	- 31	- 48	- 65	- 73	- 93	-146	-204	-255	-291	-252	-121	+ 34	+195
Winter	- 60	- 64	- 68	- 59	- 47	- 62	- 69	- 91	-133	-141	- 68	+ 11	+102
Equinox	- 41	- 58	- 69	- 78	-101	-127	-168	-252	-328	-300	-162	+ 15	+205
Summer	+ 7	- 23	- 58	- 83	-131	-250	-375	-423	-413	-315	-133	+ 76	+277
	VERTICAL COMPONENT (Unit 0.1γ)												
January	+ 39	+ 35	+ 31	+ 23	+ 15	+ 11	+ 1	+ 1	- 21	- 61	- 65	- 65	-107
February	+ 12	+ 18	+ 18	+ 10	+ 4	+ 8	+ 8	- 4	+ 10	+ 2	- 16	- 30	- 40
March	+ 52	+ 4	0	- 6	- 2	+ 6	+ 22	+ 70	+ 56	- 14	-108	-190	-214
April	+ 81	+ 73	+ 67	+ 69	+ 69	+ 71	+ 83	+ 83	+ 23	- 63	-135	-213	-267
May	+ 64	+ 58	+ 66	+ 86	+110	+142	+140	+ 84	+ 12	-116	-256	-354	-362
June	+ 51	+ 45	+ 53	+ 77	+107	+127	+101	+ 23	- 63	-173	-251	-285	-255
July	+ 16	+ 20	+ 24	+ 28	+ 38	+ 70	+ 66	+ 38	- 20	- 98	-174	-248	-256
August	+ 51	+ 41	+ 51	+ 61	+ 93	+143	+137	+105	+ 29	- 59	-165	-295	-359
September	+ 65	+ 73	+ 75	+ 81	+ 83	+ 93	+101	+ 99	+ 53	- 49	-157	-257	-249
October	+ 57	+ 57	+ 51	+ 47	+ 43	+ 41	+ 43	+ 63	+ 69	+ 27	- 95	-181	-199
November	+ 37	+ 35	+ 27	+ 29	+ 27	+ 21	+ 19	+ 25	+ 33	- 11	- 71	-113	-123
December	+ 33	+ 39	+ 45	+ 37	+ 31	+ 17	+ 9	- 3	- 5	- 35	- 79	- 85	- 89
Year	+ 47	+ 42	+ 42	+ 45	+ 52	+ 63	+ 61	+ 49	+ 15	- 54	-131	-193	-210
Winter	+ 30	+ 32	+ 30	+ 25	+ 19	+ 14	+ 9	+ 5	+ 4	- 26	- 58	- 73	- 90
Equinox	+ 64	+ 52	+ 48	+ 48	+ 48	+ 53	+ 62	+ 79	+ 50	- 25	-124	-210	-232
Summer	+ 45	+ 41	+ 49	+ 63	+ 87	+121	+111	+ 63	- 10	-112	-212	-295	-308

COMPONENTS OF MAGNETIC INTENSITY

International Quiet Day

NORTH COMPONENT (Unit 0.1Y)

Universal Time. Hour commencing											Range	Month and Season, 1958
13	14	15	16	17	18	19	20	21	22	23	Y	
-227	-221	-146	-101	- 73	- 3	+ 43	+ 68	+ 79	+ 80	+ 80	35.9	January
-219	-169	-135	- 95	- 21	+ 66	+101	+111	+119	+137	+149	38.9	February
-288	-201	-113	+ 8	+ 42	+ 56	+ 96	+122	+137	+108	+144	50.7	March
-301	-208	-112	- 13	+ 53	+ 73	+116	+133	+146	+121	+130	48.6	April
-308	-227	- 69	+ 61	+123	+142	+138	+170	+163	+171	+165	54.0	May
-297	-225	-111	+ 3	+ 88	+240	+254	+245	+231	+198	+130	60.5	June
-232	-160	- 63	+ 45	+144	+207	+191	+176	+189	+146	+116	48.6	July
-276	-197	-102	+ 55	+149	+168	+183	+201	+199	+191	+161	58.8	August
-222	-138	- 46	+ 35	+ 86	+107	+153	+151	+139	+152	+143	49.4	September
-318	-234	-119	- 22	+ 58	+110	+137	+116	+168	+166	+149	53.9	October
-179	-117	- 86	- 22	+ 32	+ 69	+ 93	+107	+108	+111	+102	36.1	November
-109	- 90	- 82	- 47	+ 15	+ 48	+ 84	+ 96	+ 87	+ 80	+ 80	23.2	December
-248	-182	- 99	- 8	+ 58	+107	+132	+141	+147	+138	+129	46.6	Year
-183	-149	-112	- 66	- 12	+ 45	+ 80	+ 95	+ 98	+102	+103	33.5	Winter
-282	-195	- 97	+ 2	+ 60	+ 87	+126	+130	+147	+137	+142	50.7	Equinox
-278	-202	- 86	+ 41	+126	+189	+191	+198	+195	+177	+143	55.5	Summer

WEST COMPONENT (Unit 0.1Y)

											Y	
+186	+205	+130	+137	+130	+103	+ 58	+ 10	- 2	- 23	- 41	33.9	January
+126	+131	+ 93	+ 71	+ 76	+ 58	+ 66	+ 52	- 2	- 24	- 57	28.2	February
+305	+304	+233	+171	+ 84	+ 63	+ 99	+100	+ 61	- 34	- 57	57.6	March
+287	+312	+262	+186	+101	+ 70	+ 89	+110	+103	+ 29	+ 14	64.6	April
+456	+433	+354	+230	+122	+ 42	+ 41	+ 53	+ 38	+ 29	+ 28	87.7	May
+375	+381	+338	+257	+155	+ 90	+ 67	+ 60	+ 37	+ 28	+ 2	85.3	June
+324	+332	+313	+239	+187	+164	+110	+ 88	+ 75	+ 50	+ 3	73.5	July
+396	+394	+328	+223	+143	+ 96	+ 90	+ 89	+ 57	+ 31	+ 29	81.0	August
+402	+366	+249	+141	+ 78	+ 79	+ 37	+ 36	+ 23	+ 29	+ 25	79.5	September
+290	+305	+267	+192	+141	+103	+ 88	+ 70	+ 24	+ 15	+ 9	64.9	October
+164	+181	+143	+118	+ 98	+ 86	+ 75	+ 45	+ 27	- 23	- 21	37.8	November
+158	+146	+114	+106	+ 80	+ 80	+ 46	+ 12	- 12	- 57	- 42	28.7	December
+289	+291	+235	+173	+116	+ 86	+ 72	+ 60	+ 36	+ 4	- 9	60.2	Year
+158	+166	+120	+108	+ 96	+ 82	+ 61	+ 30	+ 3	- 32	- 40	32.1	Winter
+321	+322	+253	+173	+101	+ 79	+ 78	+ 79	+ 53	+ 10	- 2	66.7	Equinox
+388	+385	+333	+237	+152	+ 98	+ 77	+ 73	+ 52	+ 35	+ 15	81.9	Summer

VERTICAL COMPONENT (Unit 0.1Y)

											Y	
-101	- 5	+ 41	+ 39	+ 33	+ 43	+ 45	+ 35	+ 23	+ 11	+ 7	15.2	January
- 30	- 44	- 10	+ 4	+ 8	+ 18	+ 14	+ 18	+ 22	+ 2	- 12	6.6	February
-186	-112	- 30	+ 40	+ 94	+100	+ 82	+ 66	+ 78	+ 96	+ 86	31.4	March
-229	-133	- 59	+ 11	+ 67	+ 77	+ 65	+ 61	+ 65	+ 77	+ 69	35.0	April
-284	-160	- 22	+ 78	+154	+162	+126	+ 96	+ 76	+ 60	+ 48	52.4	May
-181	- 87	+ 11	+ 85	+143	+173	+145	+ 79	+ 43	+ 21	+ 13	45.8	June
-188	- 78	+ 22	+110	+142	+154	+132	+ 98	+ 64	+ 30	+ 14	41.0	July
-321	-183	- 33	+ 69	+117	+127	+107	+ 93	+ 85	+ 61	+ 43	50.2	August
-203	-131	- 27	+ 23	+ 39	+ 33	+ 65	+ 55	+ 51	+ 43	+ 45	35.8	September
-165	-103	- 37	+ 19	+ 33	+ 35	+ 29	+ 33	+ 47	+ 37	+ 41	26.8	October
- 87	- 41	+ 5	+ 21	+ 23	+ 21	+ 19	+ 21	+ 27	+ 35	+ 25	16.0	November
- 67	- 31	+ 7	+ 33	+ 39	+ 23	+ 23	+ 21	+ 19	+ 17	+ 9	13.4	December
-170	- 92	- 11	+ 44	+ 74	+ 80	+ 71	+ 56	+ 50	+ 41	+ 32	30.8	Year
- 71	- 30	+ 11	+ 24	+ 26	+ 26	+ 25	+ 24	+ 23	+ 16	+ 7	12.8	Winter
-196	-120	- 38	+ 23	+ 58	+ 61	+ 60	+ 54	+ 60	+ 63	+ 60	32.3	Equinox
-243	-127	- 6	+ 85	+139	+154	+128	+ 92	+ 67	+ 43	+ 29	47.3	Summer

TABLE VII. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

International Disturbed Days													
DECLINATION WEST (Unit 0.01)													
Month and Season, 1958	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-676	-556	-460	-674	-548	-406	-192	-214	-204	-160	-54	+122	+494
February	-254	-128	+852	-488	-370	-410	-412	-86	-82	-118	+138	+382	+664
March	-503	-691	-771	-451	-541	-381	-35	-77	-119	-267	+73	+433	+735
April	-338	-390	-426	-462	-626	-558	-592	-628	-618	-488	+34	+502	+974
May	-158	-514	-742	-458	-646	-808	-960	-828	-778	-374	+26	+476	+882
June	-411	-599	-651	-641	-451	-647	-673	-731	-625	-359	+77	+415	+807
July	-231	-303	-549	-721	-707	-713	-859	-985	-681	-607	-349	-55	+529
August	-116	-10	-28	-590	-362	-642	-794	-570	-566	-338	+178	+484	+752
September	-580	-722	-754	-652	-402	-596	-610	-490	-474	-450	+142	+576	+888
October	-326	-234	-132	-86	-86	-18	+44	-34	-166	-260	-34	+402	+618
November	-303	-337	-291	-259	-279	-159	-105	-127	-263	-315	-103	+125	+391
December	-648	-928	-604	-480	-156	-10	-28	-20	+14	+14	+120	+308	+454
Year	-379	-451	-380	-497	-431	-446	-435	-399	-380	-310	+21	+347	+682
Winter	-470	-487	-126	-475	-338	-246	-184	-112	-134	-145	+25	+234	+501
Equinox	-437	-509	-521	-413	-414	-388	-298	-307	-344	-366	+54	+478	+804
Summer	-229	-357	-493	-603	-541	-703	-821	-779	-663	-419	-17	+330	+743
INCLINATION (Unit 0.01)													
January	+35	-30	-68	-36	-186	-150	-138	-110	-48	+47	+122	+119	+148
February	-162	-200	-534	-174	-164	-185	-69	+62	+198	+252	+324	+324	+183
March	-136	-91	-84	-236	-225	-207	-197	-66	-53	+17	+120	+156	+188
April	-79	-60	-79	-93	-102	-99	-96	-91	-172	+115	+63	+150	+257
May	-209	-171	-48	-64	-119	-99	-14	+43	+101	+126	+167	+109	+109
June	-92	-133	-154	-272	-131	-23	-76	+58	+219	+305	+287	+290	+232
July	+75	+13	+4	-37	-59	-54	+20	+195	+296	+112	+129	+259	+88
August	-127	-165	-277	-244	-135	-49	+39	+138	+200	+218	+189	+154	+129
September	-80	-133	-130	-203	-245	-254	-98	-45	+12	+66	+86	+79	+82
October	-186	-194	-204	-316	-343	-326	-308	-220	-83	+15	+98	+139	+205
November	-48	-66	-53	-89	-93	-96	-133	-127	-101	-24	+76	+118	+124
December	-170	-113	-133	-131	-126	-150	-134	-157	-156	-119	-77	-104	-84
Year	-98	-112	-147	-158	-161	-140	-99	-20	+50	+90	+139	+157	+130
Winter	-86	-102	-197	-107	-142	-145	-119	-83	-27	+39	+111	+114	+93
Equinox	-120	-119	-124	-212	-229	-219	-171	-87	-28	+40	+113	+153	+158
Summer	-88	-114	-119	-154	-111	-56	-8	+109	+204	+190	+193	+203	+139
HORIZONTAL INTENSITY (Unit 0.1γ)													
January	-11	+43	+61	+7	+205	+139	+135	+113	+31	-113	-219	-217	-277
February	+258	+296	+596	+164	+186	+200	+26	-194	-420	-502	-568	-520	-258
March	+192	+106	+86	+240	+224	+206	+180	+16	-6	-102	-260	-318	-354
April	+107	+73	+83	+93	+115	+97	+91	+1	-47	-167	-335	-479	-329
May	+272	+194	+12	+14	+116	+108	-20	-130	-248	-332	-422	-332	-282
June	+20	+58	+78	+204	+56	-88	+4	-176	-414	-528	-498	-518	-412
July	-128	-68	-70	-22	0	0	-110	-370	-534	-280	-350	-562	-292
August	+195	+245	+365	+261	+69	-23	-111	-249	-361	-411	-383	-329	-283
September	-9	+89	+63	+143	+201	+271	+75	+9	-97	-203	-251	-253	-239
October	+229	+237	+235	+373	+401	+371	+345	+231	+41	-103	-233	-295	-343
November	+90	+102	+72	+122	+122	+122	+170	+162	+126	-6	-174	-236	-238
December	+180	+76	+72	+92	+114	+164	+156	+200	+196	+126	+54	+84	+60
Year	+116	+121	+138	+141	+151	+131	+78	-32	-144	-218	-303	-331	-271
Winter	+129	+129	+200	+96	+157	+156	+122	+70	-17	-124	-227	-222	-178
Equinox	+130	+126	+117	+212	+235	+236	+173	+64	-27	-144	-270	-336	-316
Summer	+90	+107	+96	+114	+60	-1	-59	-231	-389	-388	-413	-435	-317

DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

International Disturbed Days

DECLINATION WEST (Unit 0.01)

Universal Time. Hour commencing											Range	Month and Season, 1958
13	14	15	16	17	18	19	20	21	22	23		
+630	+668	+482	+560	+592	+556	+450	+160	-142	-196	-240	13.44	January
+634	+582	+310	+354	+170	-148	-76	-198	-214	-560	-536	14.12	February
+967	+1013	+847	+713	+389	+199	+115	-331	-407	-481	-417	17.84	March
+1200	+1206	+1020	+686	+584	+250	-58	-134	-244	-302	-592	18.34	April
+1164	+1128	+944	+726	+610	+394	-64	+64	+80	-100	-70	21.24	May
+957	+989	+847	+717	+529	+441	+35	+145	+43	-93	-129	17.20	June
+791	+1181	+1205	+947	+695	+685	+367	+157	+535	-19	-321	21.90	July
+964	+916	+776	+478	+176	-132	-172	-192	-20	-102	-94	17.58	August
+1130	+1144	+1098	+1236	+502	+378	+232	-52	-314	-384	-838	20.74	September
+746	+728	+650	+514	+102	+134	-136	-576	-598	-724	-534	14.70	October
+479	+561	+477	+423	+441	+225	+115	-35	-117	-245	-301	8.98	November
+540	+506	+452	+518	+676	+222	+48	+114	-198	-458	-462	16.04	December
+850	+885	+759	+656	+455	+267	+71	-73	-133	-305	-378	16.84	Year
+571	+579	+430	+464	+470	+214	+134	+10	-168	-365	-385	13.15	Winter
+1011	+1023	+904	+787	+394	+240	+38	-273	-391	-473	-595	17.90	Equinox
+969	+1053	+943	+717	+503	+347	+41	+43	+159	-79	-153	19.48	Summer

INCLINATION (Unit 0.01)

+145	+126	+85	-13	-29	+3	+15	-1	-12	-4	-20	3.34	January
+158	+155	+138	+67	+30	-19	-41	-75	-75	-79	-122	8.58	February
+181	+179	+144	+139	+143	+99	0	+29	-6	-26	-73	4.24	March
+172	+128	+34	-8	-62	-94	-67	-46	+11	-11	-64	3.39	April
+119	+89	+57	+14	-133	-76	-52	+2	-16	+16	+47	3.76	May
+192	+81	+49	+38	-100	-193	-199	-161	-120	-72	-28	5.77	June
+56	-27	-275	-429	-404	-291	-92	+82	+44	+132	+168	7.25	July
+99	+29	-2	-25	-95	-79	-14	-32	+23	+9	+30	4.95	August
-1	+73	+17	-139	-40	0	+197	+215	+253	+172	+118	5.07	September
+204	+179	+146	+137	+145	+161	+271	+256	+149	+62	+21	6.14	October
+140	+87	+66	+43	+56	+90	+9	+11	+6	+6	-1	2.73	November
-22	+56	+63	+25	+95	+279	+297	+224	+240	+191	+205	4.67	December
+120	+96	+43	-13	-33	-10	+27	+42	+41	+33	+23	4.99	Year
+119		+44	-12	-32	-8	+29	+44	+43	+33	+23		
+105	+106	+88	+31	+38	+88	+70	+40	+40	+29	+15	4.83	Winter
+139	+140	+85	+32	+47	+41	+100	+113	+102	+49	+1	4.71	Equinox
+116	+43	-43	-101	-183	-160	-89	-27	-17	+21	+54	5.43	Summer

HORIZONTAL INTENSITY (Unit 0.1γ)

											Y	
-249	-165	-77	+53	+73	+49	+53	+101	+109	+75	+89	48.2	January
-186	-168	-102	0	+60	+154	+176	+218	+192	+186	+218	116.4	February
-302	-216	-98	-58	-44	+14	+126	+80	+96	+86	+118	59.4	March
-315	-205	+21	+127	+225	+279	+217	+137	+45	+59	+99	75.8	April
-218	-80	+44	+164	+406	+322	+290	+140	+70	+2	-86	82.8	May
-310	-62	+46	+126	+392	+534	+536	+418	+304	+160	+78	106.4	June
-184	+32	+666	+952	+818	+662	+342	+106	-136	-242	-236	151.4	July
-209	-43	+71	+171	+311	+293	+163	+137	+41	+53	+15	77.6	August
-51	-63	+121	+521	+419	+301	-39	-103	-347	-297	-265	86.8	September
-289	-217	-117	-71	-39	-81	-207	-239	-131	-57	-53	74.4	October
-246	-134	-68	-18	-30	-76	+30	+26	+30	+24	+28	41.6	November
0	-86	-70	+20	-72	-248	-286	-204	-224	-158	-246	48.6	December
-213	-117	+36	+166	+210	+184	+117	+68	+4	-9	-20	80.8	Year
-170	-138	-79	+14	+8	-30	-7	+35	+27	+32	+22	63.7	Winter
-239	-175	-18	+130	+140	+128	+24	-31	-84	-52	-25	74.1	Equinox
-230	-38	+207	+353	+482	+453	+333	+200	+70	-7	-57	104.5	Summer

TABLE VII. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL
International Disturbed Days

Month and Season, 1958	NORTH COMPONENT (Unit 0.1Y)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 54	+ 96	+104	+ 72	+254	+176	+151	+132	+ 50	- 96	-210	-225	-320
February	+278	+304	+505	+208	+219	+236	+ 65	-183	-405	-483	-572	-548	-318
March	+237	+171	+159	+279	+272	+239	+180	+ 17	+ 6	- 75	-263	-354	-419
April	+138	+109	+123	+136	+173	+149	+146	+ 61	+ 13	-118	-333	-519	-417
May	+283	+240	+ 83	+ 58	+176	+184	+ 72	- 49	-169	-291	-418	-372	-367
June	+ 59	+115	+139	+262	+ 98	- 25	+ 68	-103	-347	-485	-497	-550	-483
July	-104	- 38	- 16	+ 47	+ 68	+ 68	- 26	-270	-460	-217	-311	-548	-338
August	+203	+242	+362	+313	+103	+ 39	- 33	-190	-301	-372	-394	-370	-351
September	+ 47	+157	+134	+203	+236	+324	+132	+ 56	- 50	-157	-261	-304	-320
October	+257	+256	+244	+375	+403	+367	+335	+231	+ 56	- 77	-226	-329	-397
November	+118	+133	+ 99	+145	+147	+135	+177	+172	+149	+ 24	-161	-244	-272
December	+239	+164	+129	+137	+127	+162	+156	+199	+192	+123	+ 42	+ 52	+ 16
Year	+151	+162	+172	+186	+190	+171	+119	+ 6	-106	-185	-300	-359	-332
Winter	+172	+174	+209	+141	+187	+177	+137	+ 80	- 4	-108	-225	-241	-223
Equinox	+170	+173	+165	+248	+271	+270	+198	+ 91	+ 6	-107	-271	-377	-388
Summer	+110	+140	+142	+170	+111	+ 67	+ 20	-153	-319	-341	-405	-460	-383
	WEST COMPONENT (Unit 0.1Y)												
January	-361	-289	-235	-359	-256	-192	- 79	- 94	-103	-105	- 68	+ 27	+215
February	- 90	- 16	+561	-232	-165	-184	-215	- 80	-118	-152	- 27	+112	+310
March	-235	-350	-397	-198	-249	-167	+ 13	- 38	- 65	-161	- 7	+175	+330
April	-162	-195	-213	-230	-314	-281	-300	-335	-338	-290	- 41	+173	+462
May	- 36	-240	-394	-242	-325	-412	-516	-465	-459	-259	- 61	+195	+421
June	-216	-310	-334	-306	-231	-361	-359	-422	-407	-285	- 47	+130	+358
July	-146	-174	-306	-389	-378	-381	-478	-592	-458	-374	-248	-129	+231
August	- 27	+ 38	+ 50	-269	-181	-347	-444	-349	-366	-253	+ 27	+200	+352
September	-311	-370	-392	-323	-179	-270	-313	-260	-270	-276	+ 31	+263	+432
October	-134	- 83	- 29	+ 20	+ 25	+ 56	+ 85	+ 23	- 81	-157	- 59	+163	+269
November	-146	-162	-143	-117	-127	- 63	- 26	- 39	-118	-169	- 86	+ 25	+167
December	-314	-482	-310	-240	- 63	+ 24	+ 13	+ 25	+ 42	+ 30	+ 74	+179	+253
Year	-181	-219	-179	-240	-204	-215	-218	-219	-228	-204	- 43	+126	+317
Winter	-228	-237	- 32	-237	-153	-104	- 77	- 47	- 74	- 99	- 27	+ 86	+236
Equinox	-210	-249	-258	-183	-179	-165	-129	-153	-189	-221	- 19	+194	+373
Summer	-106	-171	-246	-301	-279	-375	-449	-457	-423	-293	- 82	+ 99	+341
	VERTICAL COMPONENT (Unit 0.1Y)												
January	+ 96	- 6	- 94	-108	-172	-200	-168	-120	- 94	-100	- 86	- 92	-130
February	+ 37	- 9	-475	-225	-137	-179	-179	-235	-289	-289	-193	- 81	+ 39
March	- 26	- 72	- 92	-264	-262	-242	-268	-194	-198	-178	-186	-196	-170
April	- 26 ⁴⁷	- 40 ⁶¹	- 82 ¹⁰³	-106 ¹²⁷	- 88 ¹⁰⁹	- 86 ¹⁰⁷	- 72 ⁹³	- 58 ⁷⁹	- 72 ⁹³	-168 ¹⁸⁹	-258 ²⁷⁹	-290 ³¹¹	-222 ²⁸³
May	- 96	-146	-138	-190	-146	- 92	- 94	-154	-224	-332	-400	-392	-276
June	-275	-327	-355	-473	-327	-285	-275	-207	-199	-165	-159	-195	-151
July	- 36	-114	-150	-180	-204	-188	-184	-182	-210	-260	-364	-404	-372
August	+ 10	- 6	-116	-242	-310	-226	-122	-100	-144	-198	-232	-228	-208
September	-299	-255	-305	-375	-387	-253	-167	-135	-183	-241	-283	-315	-269
October	-115	-125	-165	-233	-261	-273	-269	-229	-195	-187	-203	-203	- 83
November	+ 42	+ 12	- 18	- 26	- 40	- 52	- 66	- 64	- 58	- 98	-140	-138	-122
December	-170	-218	-296	-242	-174	-140	-104	- 82	- 88	-120	-144	-168	-152
Year	- 72	-109	-191	-222	-209	-185	-164	-147	-163	-195	-221	-225	-176
Winter	+ 1	- 55	-221	-224	-131	-143	-129	-125	-132	-152	-141	-120	- 91
Equinox	-117	-123	-161	-245	-249	-213	-194	-154	-162	-193	-233	-251	-186
Summer	- 99	-148	-190	-271	-247	-198	-169	-161	-194	-239	-289	-305	-252

COMPONENTS OF MAGNETIC INTENSITY

International Disturbed Days

NORTH COMPONENT (Unit 0.1γ)

Universal Time. Hour commencing											Range	Month and Season, 1958
13	14	15	16	17	18	19	20	21	22	23	γ	
-305	-226	-122	- 2	+ 15	- 5	+ 9	+ 84	+121	+ 93	+111	57.4	January
-244	-221	-130	- 34	+ 43	+166	+180	+234	+209	+237	+266	107.7	February
-390	-310	-178	-125	- 81	- 5	+113	+110	+133	+131	+156	69.8	March
-425	-317	- 77	+ 59	+165	+251	+219	+148	+ 68	+ 87	+154	77.0	April
-326	-187	- 47	+ 92	+341	+279	+291	+132	+ 61	+ 12	- 78	75.9	May
-397	-156	- 36	+ 55	+335	+483	+524	+397	+295	+166	+ 89	107.4	June
-257	- 82	+540	+846	+738	+586	+301	+ 89	-185	-236	-201	139.4	July
-298	-130	- 5	+122	+289	+301	+177	+153	+ 42	+ 62	+ 24	75.6	August
-159	-172	+ 14	+394	+364	+260	- 61	- 96	-311	-255	-180	71.4	September
-356	-283	-177	-119	- 48	- 93	-191	-180	- 72	+ 13	- 1	80.0	October
-288	-186	-113	- 58	- 72	- 96	+ 19	+ 29	+ 41	+ 47	+ 57	46.5	November
- 52	-133	-112	- 30	-136	-265	-286	-212	-201	-112	-198	52.5	December
-291	-200	- 37	+100	+163	+155	+108	+ 74	+ 17	+ 20	+ 17	80.0	Year
-222	-192	-119	- 31	- 38	- 50	- 19	+ 34	+ 43	+ 66	+ 59	66.0	Winter
-332	-271	-105	+ 52	+100	+103	+ 20	- 4	- 46	- 6	+ 32	74.5	Equinox
-319	-139	+113	+279	+426	+412	+323	+193	+ 53	+ 1	- 42	99.6	Summer

WEST COMPONENT (Unit 0.1γ)

											γ	Month and Season, 1958
+292	+328	+244	+308	+329	+306	+250	+103	- 57	- 91	-112	69.0	January
+306	+281	+147	+189	+101	- 52	- 9	- 67	- 80	-266	-248	82.7	February
+463	+503	+435	+370	+200	+ 66	+ 84	-163	-200	-242	-202	90.0	March
+595	+608	+548	+389	+352	+183	+ 7	- 47	-122	-151	-299	94.6	April
+583	+598	+512	+417	+398	+267	+ 17	+ 59	+ 55	- 53	- 53	111.4	May
+456	+517	+460	+405	+352	+330	+114	+151	+ 77	- 21	- 55	93.9	June
+390	+636	+761	+674	+516	+483	+257	+103	+261	- 53	-213	135.3	July
+478	+482	+427	+286	+149	- 19	- 63	- 78	- 3	- 45	- 48	92.6	August
+595	+600	+608	+752	+342	+255	+117	- 46	-229	-258	-494	124.6	September
+347	+350	+326	+262	+ 48	+ 57	-109	-350	-343	-397	-295	74.7	October
+212	+276	+243	+223	+230	+107	+ 67	- 14	- 57	-127	-156	44.5	November
+288	+255	+229	+280	+348	+ 75	- 25	+ 25	-145	-273	-290	83.0	December
+417	+453	+412	+380	+280	+171	+ 59	- 27	- 70	-165	-205	91.4	Year
+275	+285	+216	+250	+252	+109	+ 71	+ 12	- 85	-189	-201	69.8	Winter
+500	+515	+479	+443	+236	+140	+ 25	-151	-223	-262	-323	96.0	Equinox
+477	+558	+540	+445	+354	+265	+ 81	+ 59	+ 97	- 43	- 92	108.3	Summer

VERTICAL COMPONENT (Unit 0.1γ)

											γ	Month and Season, 1958
- 74	+ 54	+118	+ 78	+ 68	+126	+174	+230	+212	+162	+136	43.0	January
+119	+149	+243	+233	+245	+293	+267	+245	+185	+157	+ 83	76.8	February
- 72	+122	+274	+348	+396	+378	+294	+286	+204	+108	+ 20	66.4	March
-134 173	-303 1	+168 179	+266 287	+308 359	+322 397	+270 333	+158 227	+144 197	+ 98 103	+ 65 v	61.2 70.8	April
- 94	+124	+302	+432	+482	+486	+494	+332	+106	+ 60	- 36	89.4	May
- 53	+137	+297	+425	+563	+569	+553	+413	+289	+123	+ 83	104.2	June
-234	- 20	+592	+720	+496	+526	+474	+534	-162	-104	+ 36	112.4	July
-140	0	+158	+312	+392	+408	+330	+206	+176	+154	+138	71.8	August
-121	+107	+341	+729	+837	+701	+597	+509	+ 73	- 91	-207	122.4	September
+ 37	+117	+235	+313	+413	+371	+461	+337	+215	+ 83	- 49	73.4	October
- 86	- 8	+ 70	+108	+126	+138	+102	+ 98	+ 92	+ 78	+ 62	27.8	November
- 76	- 6	+ 56	+134	+164	+394	+368	+306	+316	+298	+140	69.0	December
967	745	2865	4119	4541	4727	4447	3723	1903	1121	411	5172	Year
- 77	+ 62	+238	+342	+374	+393	+365	+305	+154	+ 94	+ 34	76.5	January
- 81	+ 62	+239	+343	+378	+399	+371	+310	+159	+ 94	+ 34	77.3	February
- 29	+ 47	+122	+138	+151	+238	+228	+220	+201	+174	+105	54.1	March
- 329	+315	1029	1677	2005	1847	1685	1359	689	203	-231	3370	Equinox
- 73	+ 79	+254	+414	+489	+443	+405	+322	+159	+ 49	- 57	80.9	April
- 82	+ 79	+257	+419	+504	+462	+421	+349	+172	+ 51	- 58	83.3	May
-130	+ 60	+337	+472	+483	+497	+463	+371	+102	+ 58	+ 55	94.5	Summer

TABLE VIII. - NON-CYCLIC CHANGE (24^h minus 0^h)

Month 1958	All Days			Quiet Days			Disturbed Days		
	Declina- tion West	Hori- zontal Inten- sity	Vertical Inten- sity	Declina- tion West	Hori- zontal Inten- sity	Vertical Inten- sity	Declina- tion West	Hori- zontal Inten- sity	Vertical Inten- sity
	'	Y	Y	'	Y	Y	'	Y	Y
January	+0.18	+3.6	-1.4	+0.74	+3.0	-3.2	+2.60	+9.6	-0.4
February	0.00	+0.1	+0.2	-0.38	+9.6	-3.2	-0.60	-3.0	-4.0
March	+0.05	-0.4	+0.4	+0.44	+2.0	-0.8	+1.00	+2.6	-4.2
April	-0.05	-0.1	-0.7	+0.60	+7.6	-1.6	-1.24	-9.0	-2.6 -0.4
May	-0.15	-2.1	-1.6	-0.32	+7.0	-1.6	+1.40	-31.4	-7.2
June	+0.18	+2.8	+2.4	-0.32	+6.8	-3.2	+2.32	+1.6	+22.2
July	-0.04	+0.3	-0.2	-0.66	+5.6	-0.8	-1.16	-14.0	+3.6
August	+0.01	-0.2	-0.1	-0.12	+2.8	-1.8	+0.04	-12.6	+5.4
September	-0.08	-0.4	+0.3	+0.42	+3.4	-1.4	-2.20	-35.4	+10.0
October	+0.04	+0.6	-0.2	-0.20	+3.6	-1.6	-2.20	-19.4	0.0
November	-0.03	+0.1	-0.3	+0.22	+5.0	-1.4	-0.62	-5.6	+1.4
December	+0.00	+0.1	+0.1	-0.10	+8.4	-3.8	-0.38	-24.2	+14.2 40.6
Year	..	..	..	+0.03	+5.4	-2.0	-0.09	-11.7	+3.2 +3.4

TABLE IX. - MEAN MONTHLY AND ANNUAL VALUES OF GEOMAGNETIC ELEMENTS

Month 1958	Declination West	Inclination	Horizontal Intensity	North Intensity	West Intensity	Vertical Intensity	Total Intensity
	° '	° '	c.g.s.	c.g.s.	c.g.s.	c.g.s.	c.g.s.
January	10 14.1	66 47.1	.18640	.18344	.03312	.43461	.47290
February	10 13.7	66 47.3	.18638	.18342	.03309	.43463	.47291
March	10 12.8	66 47.2	.18640	.18345	.03305	.43464	.47293
April	10 11.9	66 46.1	.18654	.18359	.03303	.43458	.47292
May	10 11.5	66 45.5	.18663	.18368	.03302	.43455	.47293
June	10 11.1	66 46.0	.18658	.18364	.03299	.43462	.47297
July	10 10.6	66 46.3	.18658	.18365	.03296	.43472	.47307
August	10 10.3	66 45.8	.18662	.18368	.03296	.43463	.47300
September	10 9.7	66 46.5	.18654	.18357	.03291	.43473	.47306
October	10 8.9	66 46.3	.18657	.18365	.03288	.43470	.47305
November	10 9.1	66 45.2	.18672	.18379	.03291	.43467	.47308
December	10 8.2	66 46.0	.18664	.18372	.03285	.43475	.47312
Year	10 11.0	66 46.3	.18655	.18361	.03298	.43465	.47299

TABLE X(A). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS
DETERMINED AT THE ROYAL OBSERVATORY, GREENWICH,
BETWEEN THE YEARS 1818 AND 1925

Year	Declination West	Horizontal Intensity	Vertical Intensity	Dip	Year	Declination West	Horizontal Intensity	Vertical Intensity	Dip
	° /	c.g.s.	c.g.s.	° /		° /	c.g.s.	c.g.s.	° /
1818	24 19 †	..	..	..	1882	18 22.3	0.1806	0.4375	67 34.2
1819	24 21	..	..	..	1883	18 15.0	0.1812	0.4381	67 31.7
1820	24 21	..	..	..	1884	18 7.6	0.1814	0.4379	67 29.7
1841	23 16.2	..	..	..	1885	18 1.7	0.1817	0.4380	67 28.0
1842	23 14.6	..	..	..	1886	17 54.5	0.1818	0.4377	67 27.1
1843	23 11.7	..	..	69 0.6	1887	17 49.1	0.1819	0.4380	67 26.6
1844	23 15.3	..	..	69 0.3	1888	17 40.4	0.1822	0.4383	67 25.6
1845	22 56.7	..	..	68 57.5	1889	17 34.9	0.1823	0.4380	67 24.3
1846	22 49.6	0.1731	..	68 58.1	1890	17 28.6	0.1825	0.4381	67 23.0
1847	22 51.3	0.1736	..	68 59.0	1891	17 23.4	0.1827	0.4380	67 21.5
1848	22 51.8	0.1731	..	68 54.7	1892	17 17.4	0.1829	0.4379	67 20.0
1849	22 37.8	0.1733	..	68 51.3	1893	17 11.4	0.1831	0.4373	67 17.9
1850	22 23.5	0.1738	..	68 46.9	1894	17 4.6	0.1831	0.4374	67 17.4
1851	22 18.3	0.1744	..	68 40.4	1895	16 57.4	0.1834	0.4378	67 16.1
1852	22 17.9	0.1745	..	68 42.7	1896	16 51.7	0.1835	0.4382	67 15.1
1853	22 10.1	0.1748	..	68 44.6	1897	16 45.8	0.1838	0.4377	67 13.5
1854	22 0.8	0.1749	..	68 47.7	1898	16 39.2	0.1840	0.4377	67 12.1
1855	21 48.4	0.1756	..	68 44.6	1899	16 34.2	0.1843	0.4380	67 10.5
1856	21 43.5	0.1759	..	68 43.5	1900	16 29.0	0.1846	0.4380	67 8.8
1857	21 35.4	0.1769	..	68 31.1	1901	16 26.0	0.1850	0.4381	67 6.4
1858	21 30.3	0.1762	..	68 28.3	1902	16 22.8	0.1852	0.4377	67 3.8
1859	21 23.5	0.1761	..	68 26.9	1903	16 19.1	0.1852	0.4368	67 1.2
1860	21 14.3	..	..	68 30.1	1904	16 15.0	0.1854	0.4359	66 57.6
1861	21 5.5	0.1773	..	68 24.6	1905	16 9.9	0.1854	0.4355	66 56.3
					1906	16 3.6	0.1854	0.4353	66 55.6
1861		0.1759	..	68 15.8	1907	15 59.8	0.1855	0.4357	66 56.2
1862	20 52.6	0.1763	0.4403	68 9.6	1908	15 53.5	0.1854	0.4356	66 56.3
1863	20 45.9	0.1764	0.4396	68 7.0	1909	15 47.6	0.1854	0.4348	66 54.1
1864	..	0.1767	0.4393	68 4.1	1910	15 41.2	0.1855	0.4345	66 52.8
1865	20 33.9	0.1767	0.4388	68 2.7	1911	15 33.0	0.1855	0.4342	66 52.1
1866	20 28.0	0.1773	0.4397	68 1.3	1912	15 24.3	0.1855	0.4340	66 51.8
1867	20 20.5	0.1777	0.4392	67 57.2	1913	15 15.2	0.1853	0.4333	66 50.5
1868	20 13.1	0.1779	0.4395	67 56.5					
1869	20 4.1	0.1782	0.4396	67 54.8					
1870	19 53.0	0.1784	0.4392	67 52.5	1914	15 6.3	0.1853	0.4333	66 50.8
1871	19 41.9	0.1786	0.4389	67 50.3	1915	14 56.5	0.1851	0.4331	66 51.6
1872	19 36.8	0.1789	0.4383	67 47.8	1916	14 46.9	0.1848	0.4326	66 52.2
1873	19 33.4	0.1793	0.4386	67 45.8	1917	14 37.1	0.1848	0.4330 ††	66 53.0
1874	19 28.9	0.1797	0.4387	67 43.6	1918	14 27.8	0.1846	0.4325	66 52.8
1875	19 21.2	0.1797	0.4383	67 42.4	1919	14 18.2	0.1845	0.4324	66 53.3
1876	19 8.3	0.1799	0.4383	67 41.0	1920	14 8.6	0.1845	0.4325	66 53.6
1877	18 57.2	0.1800	0.4381	67 39.7	1921	13 57.6	0.1845	0.4322	66 53.0
1878	18 49.3	0.1802	0.4382	67 38.2	1922	13 46.7	0.1844	0.4318	66 52.3
1879	18 40.5	0.1805	0.4382	67 37.0	1923	13 35.1	0.1843	0.4314	66 51.9
1880	18 32.6	0.1805	0.4380	67 35.7	1924	13 22.8	0.1843	0.4311	66 51.6
1881	18 27.1	0.1807	0.4379	67 34.7	1925	13 9.9	0.1841	0.4308	66 51.4

† Mean of seven months June to December.

†† Mean of ten months, March to December.

In 1818, 1819 and 1820 numerous observations of Declination were made with a Dollond needle.

In 1861 new Unifilar Apparatus for absolute Horizontal Intensity and the Airy Dip-Circle were introduced, both sets of apparatus being used in that year. In 1864 the excavation of the Magnetic Basement caused a suspension of Declination Observations. From 1914 the Dip was determined with an Inductor.

TABLE X(B). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS
DETERMINED AT THE ABINGER MAGNETIC STATION,
FOR THE YEARS 1925-1956

Year	Declination		Horizontal	Vertical	Dip	Year	Declination		Horizontal	Vertical	Dip		
	West		Intensity	Intensity			West		Intensity	Intensity			
	°	'	c.g.s.	c.g.s.	°	'	°	'	c.g.s.	c.g.s.	°	'	
1925	13	22.7	0.18597	0.42946	66	35.1	1941	10	33.8	0.18539	0.43128	66	44.3
1926	13	10.4	0.18581	0.42947	66	36.3	1942	10	24.8	0.18554	0.43146	66	43.9
1927	12	58.4	0.18575	0.42932	66	36.2	1943	10	16.2	0.18556	0.43172	66	44.5
1928	12	47.0	0.18564	0.42941	66	37.3	1944	10	7.8	0.18566	0.43189	66	44.3
1929	12	35.8	0.18555	0.42918	66	37.2	1945	9	59.5	0.18573	0.43207	66	44.3
1930	12	24.6	0.18542	0.42924	66	38.2	1946	9	51.1	0.18569	0.43235	66	45.4
1931	12	13.7	0.18543	0.42923	66	38.1	1947	9	43.1	0.18577	0.43246	66	45.2
1932	12	2.6	0.18536	0.42940	66	39.1	1948	9	35.4	0.18593	0.43255	66	44.4
1933	11	51.7	0.18532	0.42942	66	39.4	1949	9	27.5	0.18607	0.43273	66	44.0
1934	11	41.1	0.18533	0.42955	66	39.7	1950	9	19.7	0.18628	0.43288	66	43.0
1935	11	30.3	0.18527	0.42981	66	40.9	1951	9	12.2	0.18648	0.43305	66	42.1
1936	11	20.0	0.18524	0.43007	66	41.8	1952	9	4.7	0.18670	0.43316	66	41.0
1937	11	10.4	0.18522	0.43031	66	42.7	1953*	8	57.5	0.18695	0.43321	66	39.5
1938*	11	1.4	0.18522	0.43050	66	43.2	1954	8	50.9	0.18720	0.43332	66	38.1
1939	10	51.9	0.18528	0.43074	66	43.5	1955*	8	43.6	0.18738	0.43348	66	37.3
1940	10	43.0	0.18533	0.43099	66	43.9	1956	8	36.8	0.18750	0.43376	66	37.4

TABLE X(C). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS
DETERMINED AT THE HARTLAND MAGNETIC STATION,
FOR THE YEARS 1957-1960

Year	Declination		Horizontal	Vertical	Dip	
	West		Intensity	Intensity		
	°	'	c.g.s.	c.g.s.	°	'
1957†	10	17.2	0.18627	0.43451	66	47.8
1958	10	11.0	0.18655	0.43465	66	46.3
1959	10	5.0	0.18681	0.43484	66	45.1
1960	9	58.8	0.18707	0.43504	66	43.9

* Discontinuities of -1.7γ in H and -3.9γ in Z were introduced in 1938.
" " -0.6γ " H " -1.3γ " Z " " 1953.
" " -0.4γ " H " -1.2γ " Z " " 1955.

† Comparisons of the mean hourly values obtained at Abinger and Hartland during the first quarter of 1957 gave the following mean differences for Hartland minus Abinger:-

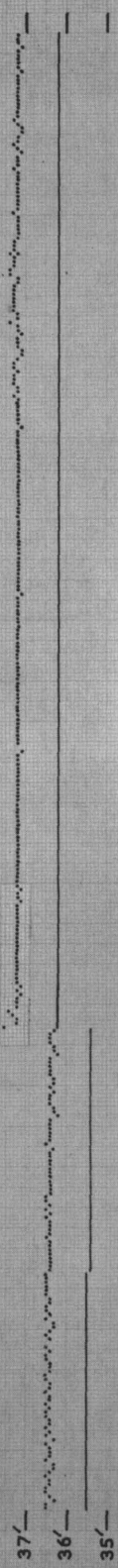
D (west)	H	Z	I		
°	'	c.g.s.	c.g.s.	°	'
1	46.6	-0.00146	+0.00056	+0	11.4

HARTLAND 1958

Declination base-line values

ADOPTED — OBSERVED PLUS 1'

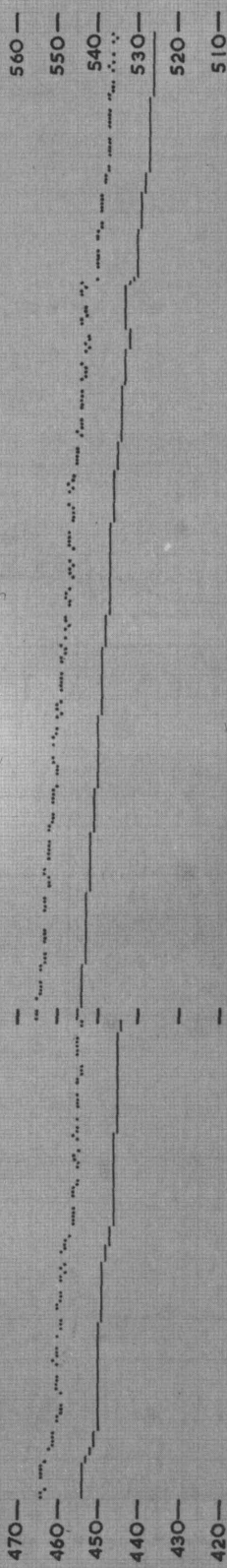
9° WEST +



Horizontal Intensity base-line values

ADOPTED — OBSERVED PLUS 10γ

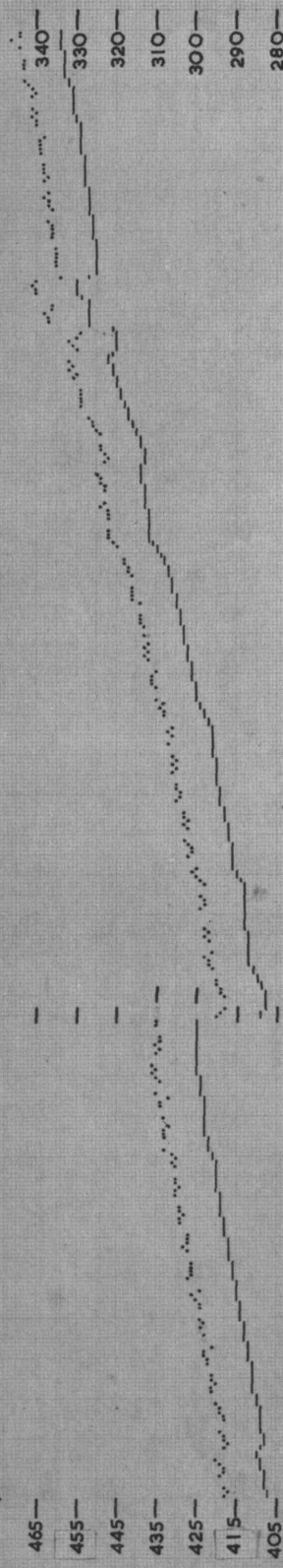
18000γ+



Vertical Intensity base-line values

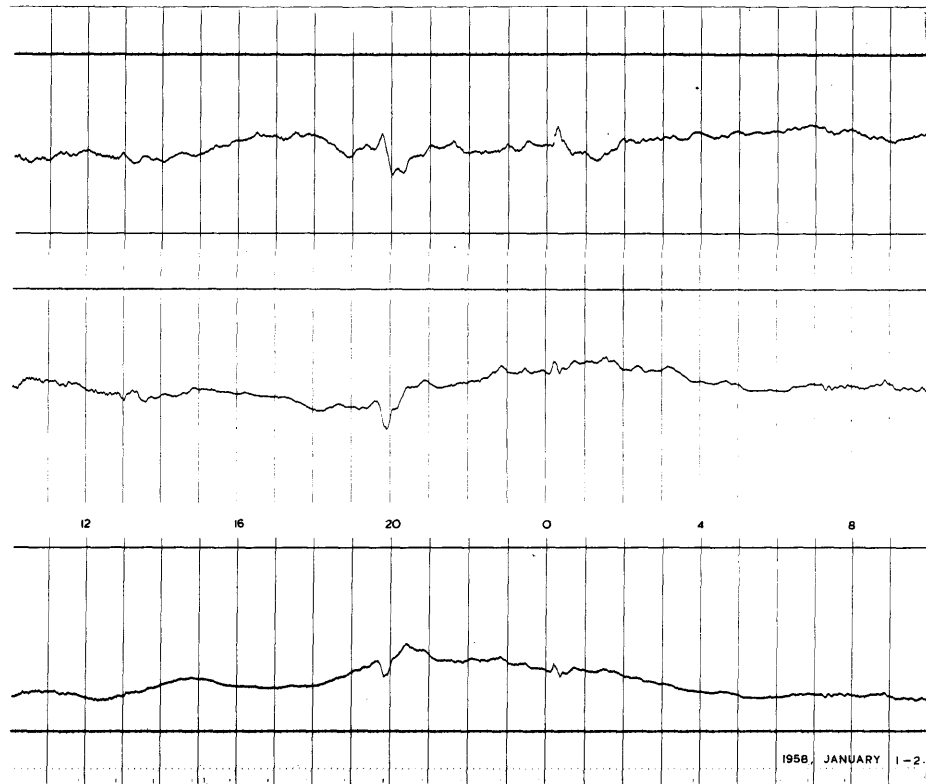
ADOPTED — OBSERVED PLUS 10γ

43000γ+

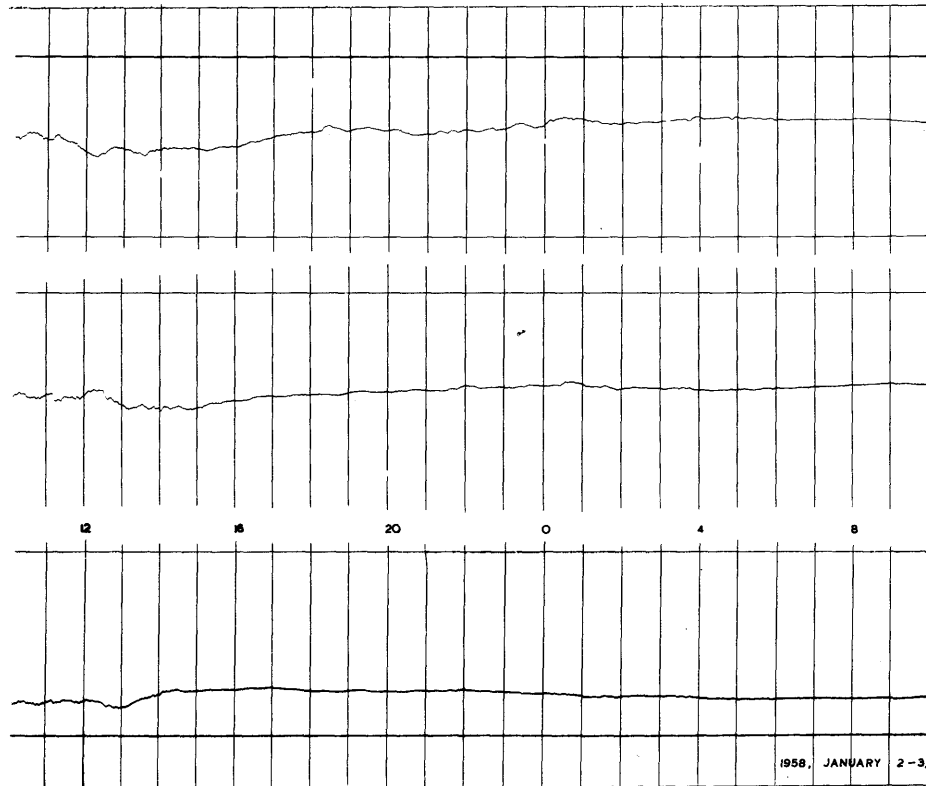


JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |

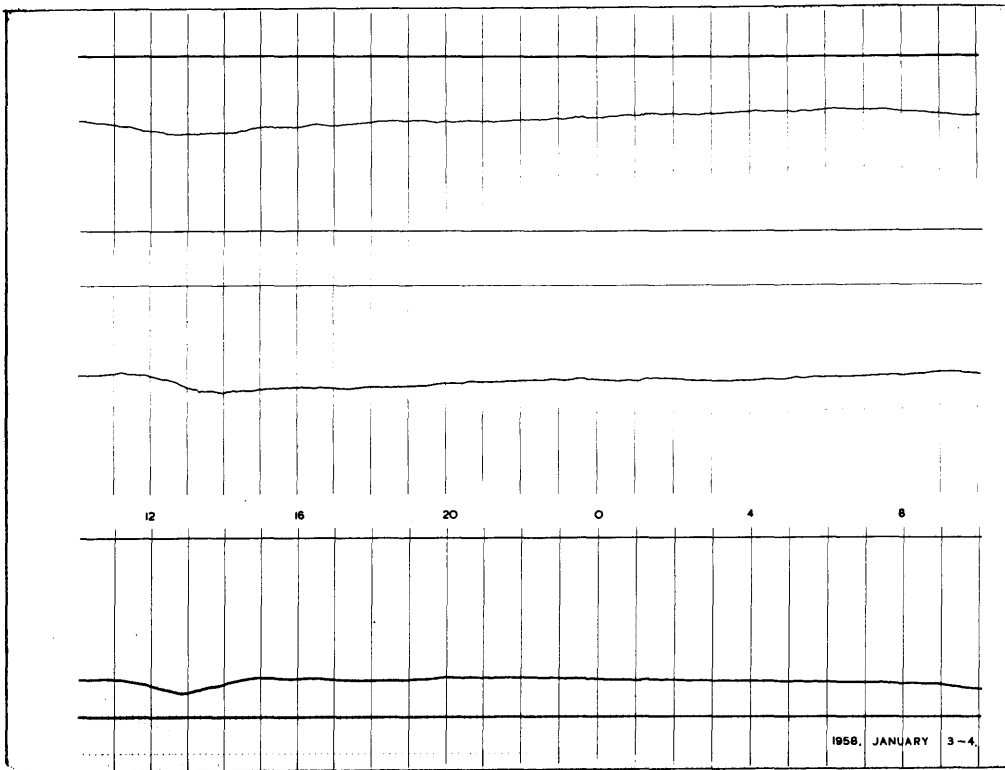
1958



JANUARY 1-2

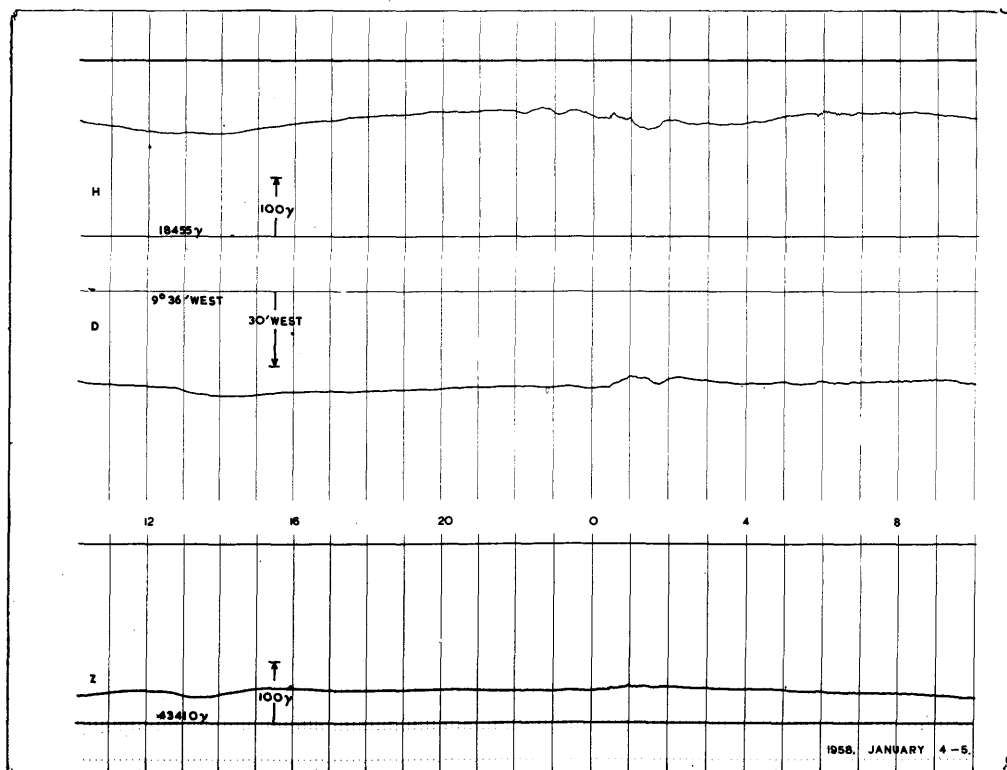


JANUARY 2-3



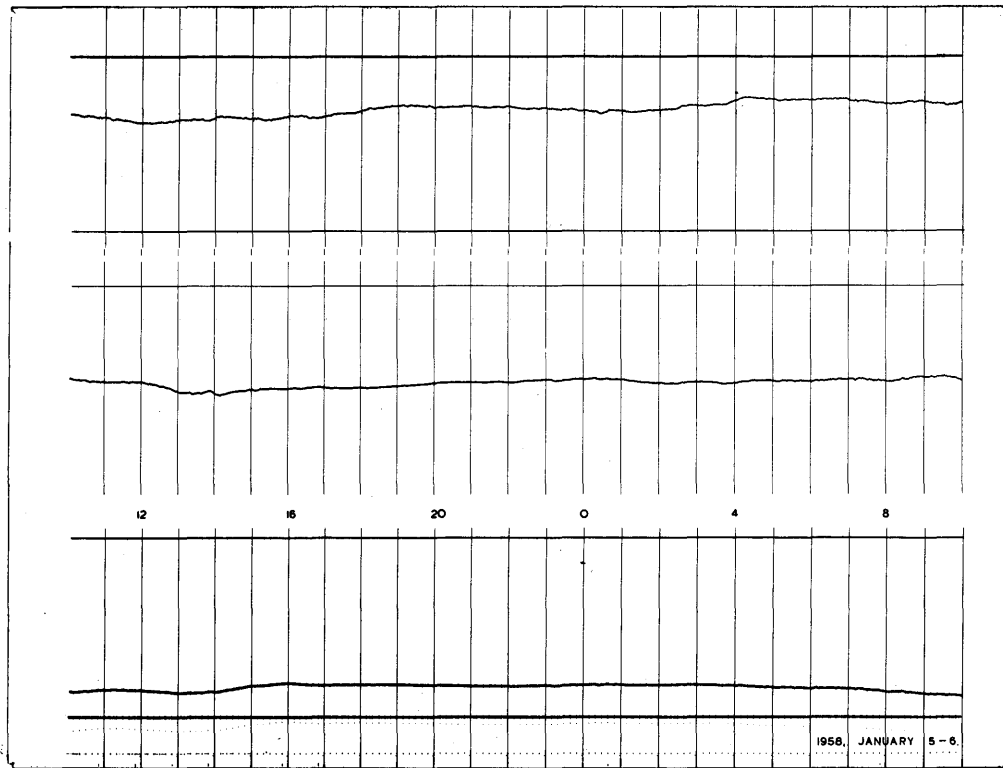
1958

JANUARY 3-4

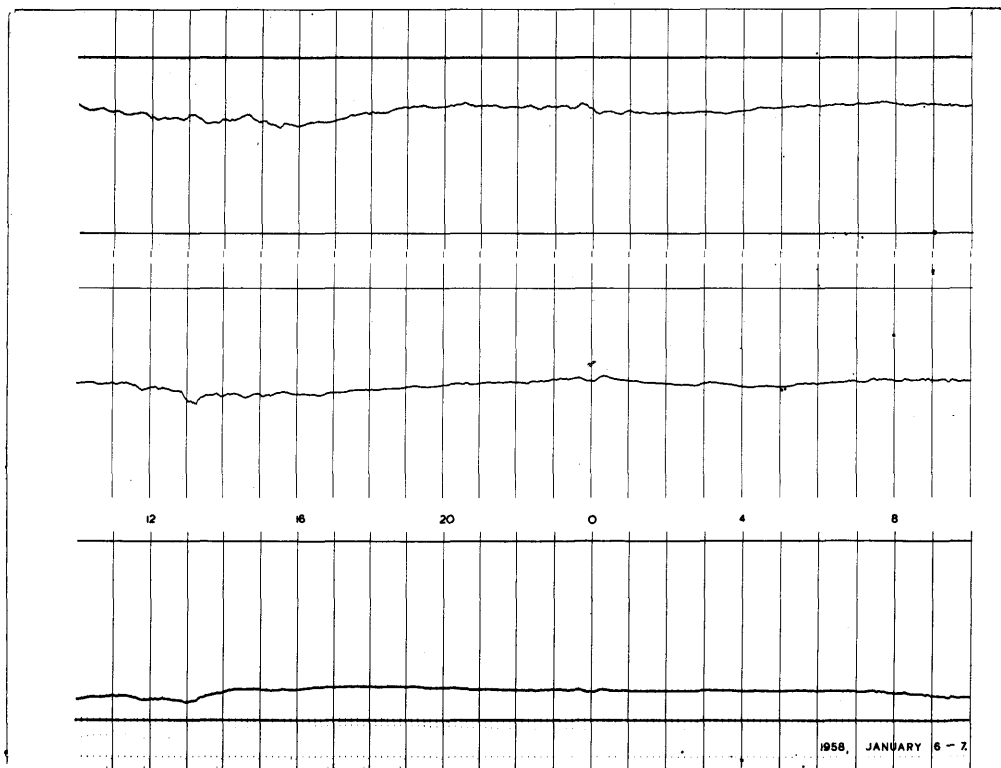


JANUARY 4-5

1958

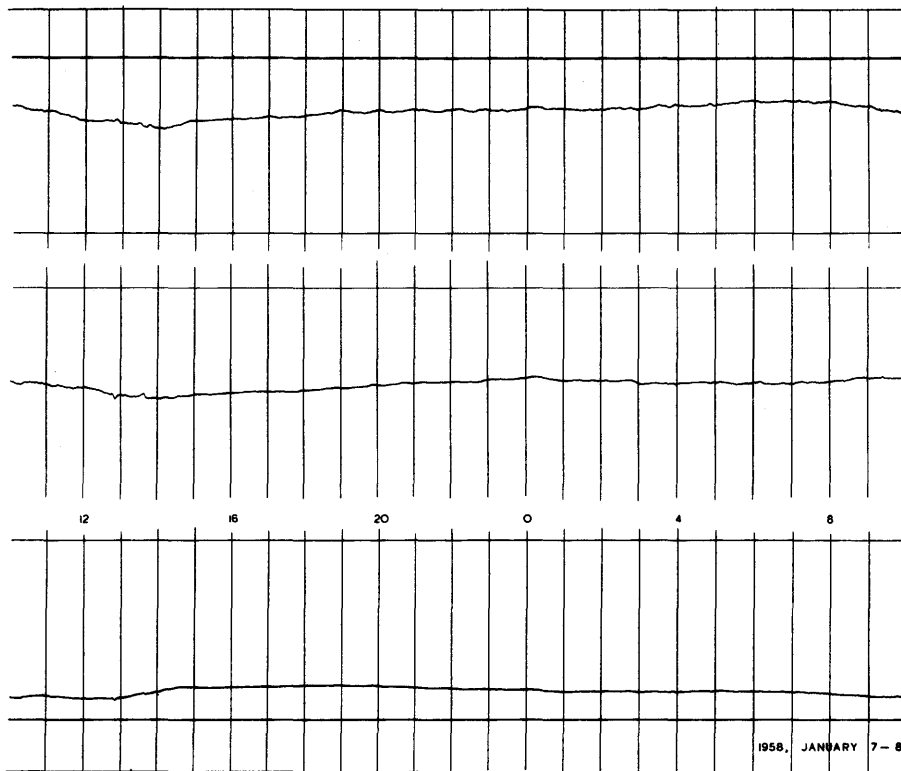


JANUARY 5-6

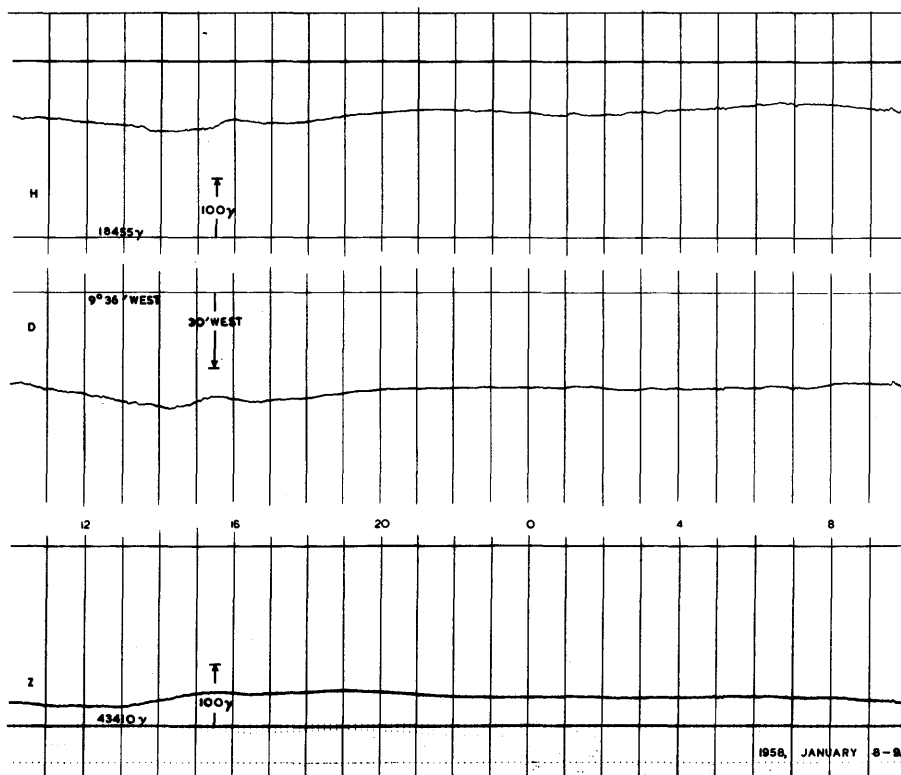


JANUARY 6-7

1958

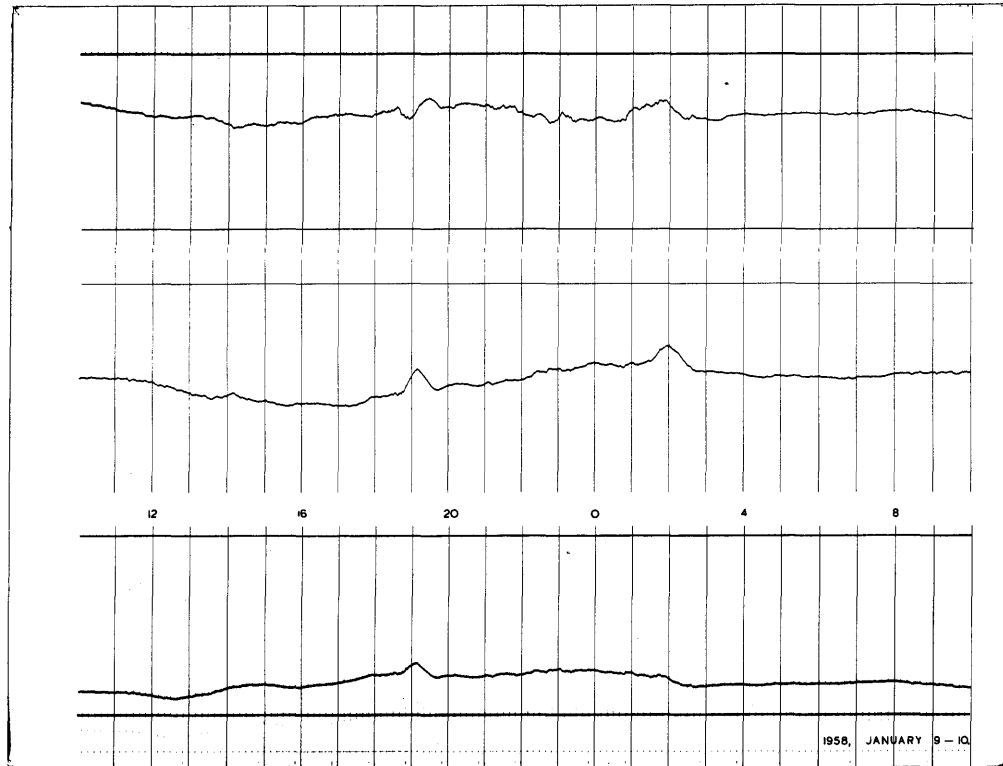


JANUARY 7-8

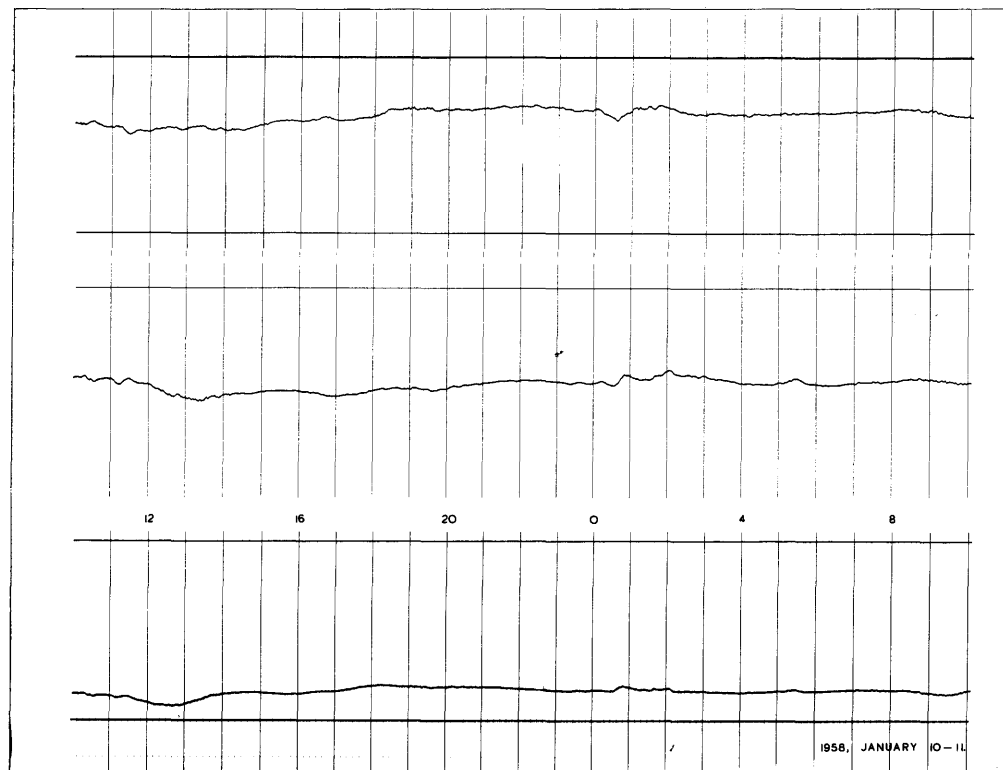


JANUARY 8-9

1958

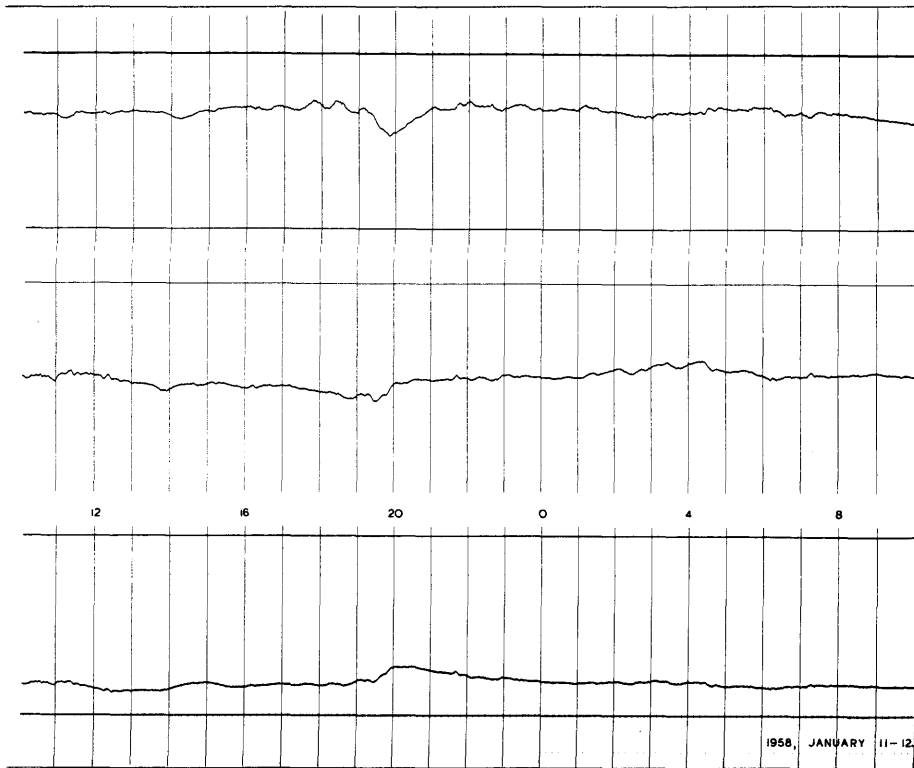


JANUARY 9-10

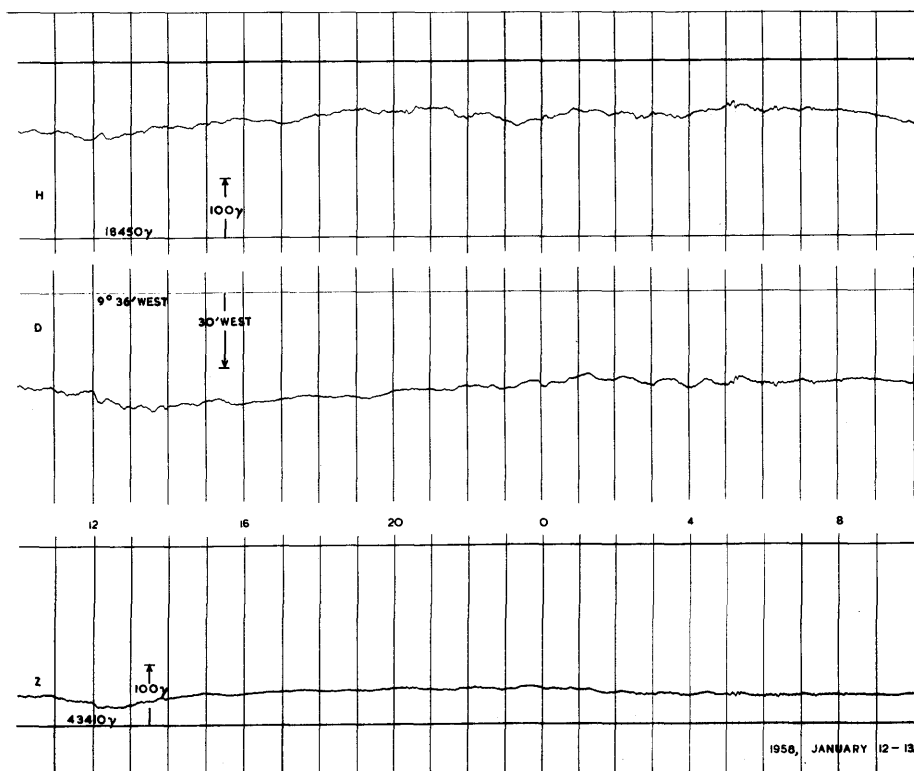


JANUARY 10-11

1958

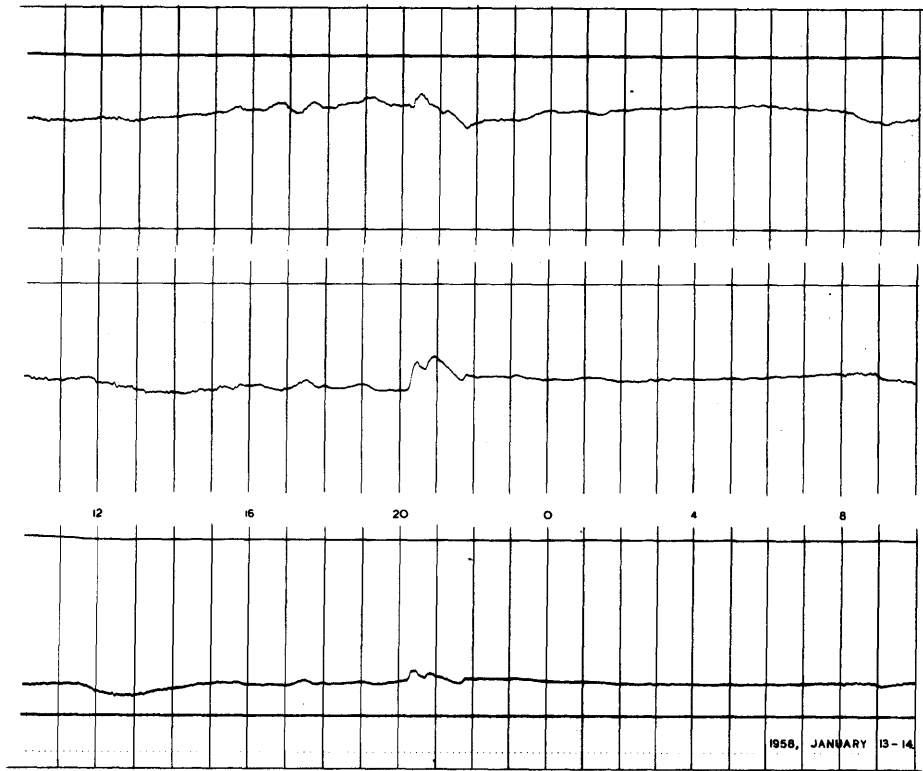


JANUARY 11-12

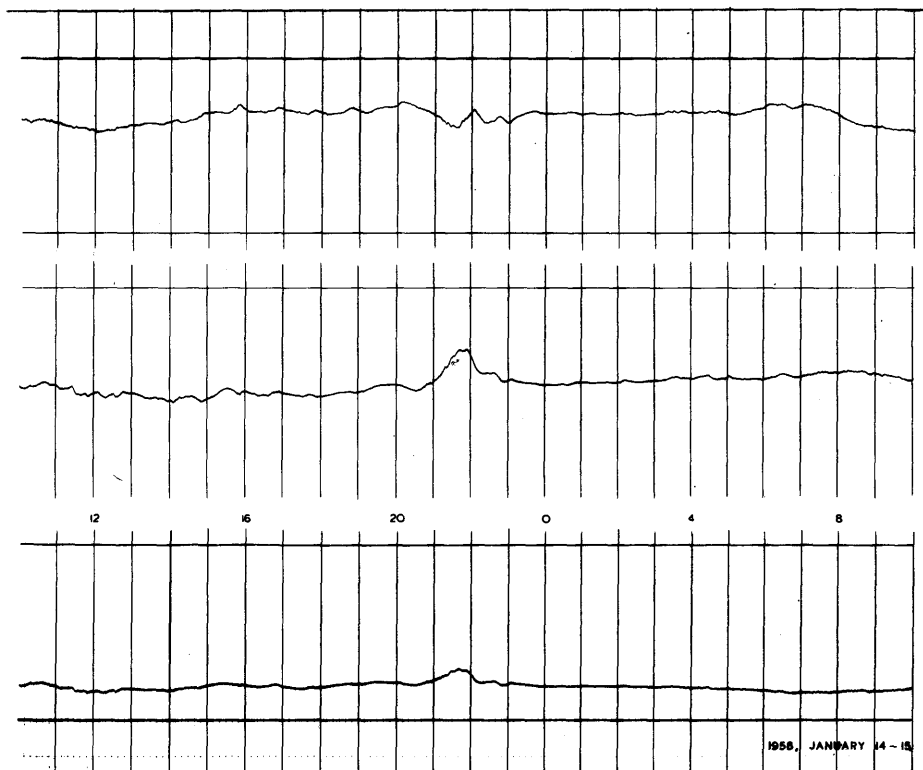


JANUARY 12-13

1958

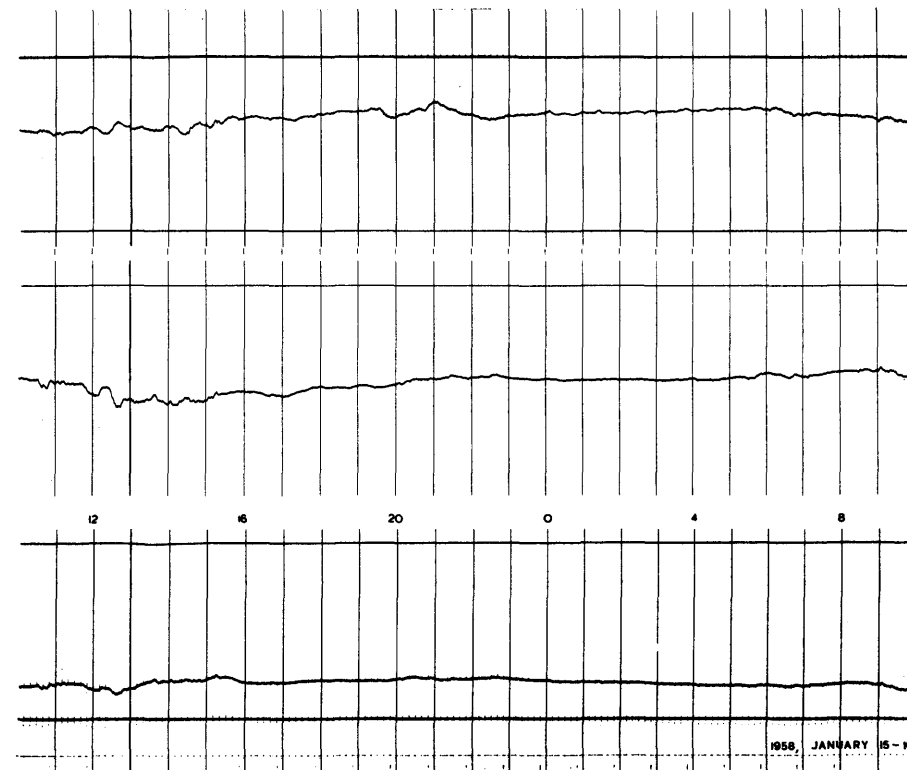


JANUARY 13-14

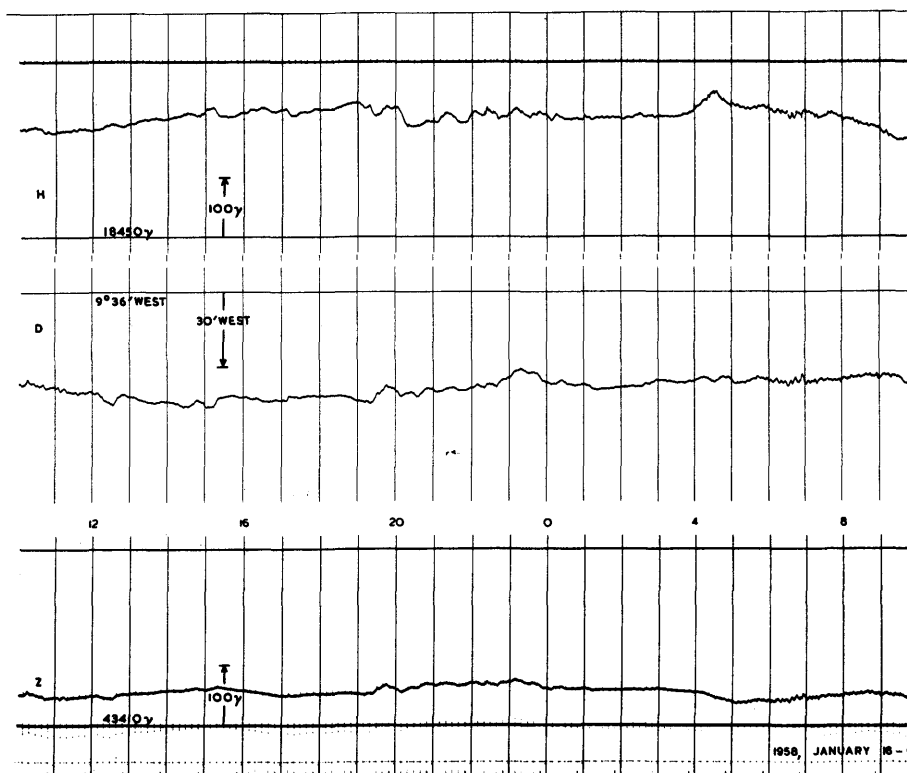


JANUARY 14-15

1958

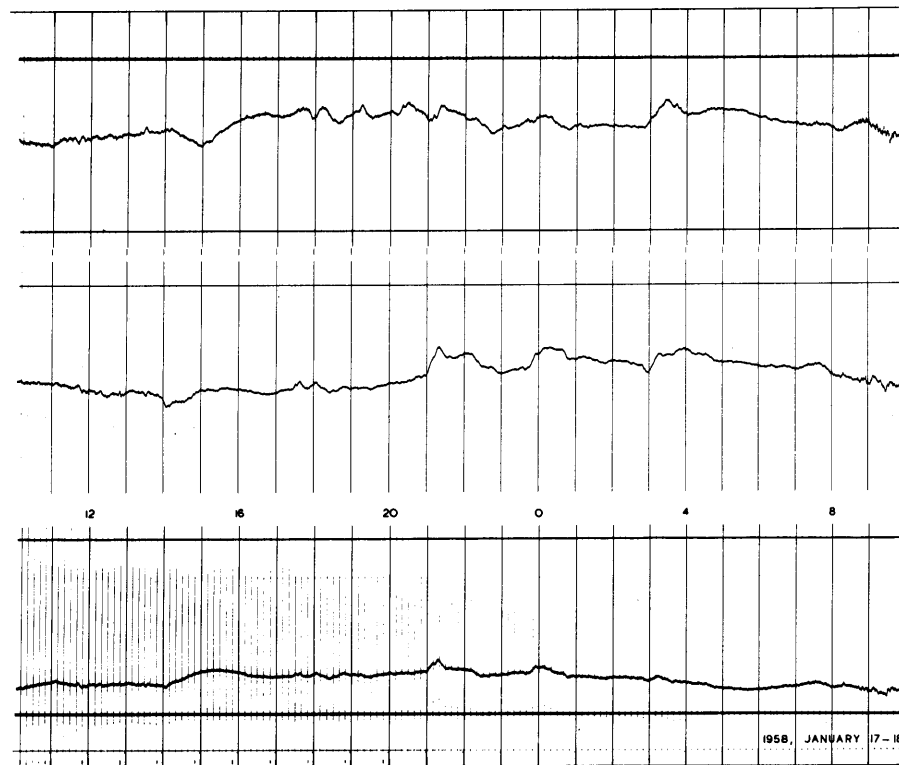


JANUARY 15-16

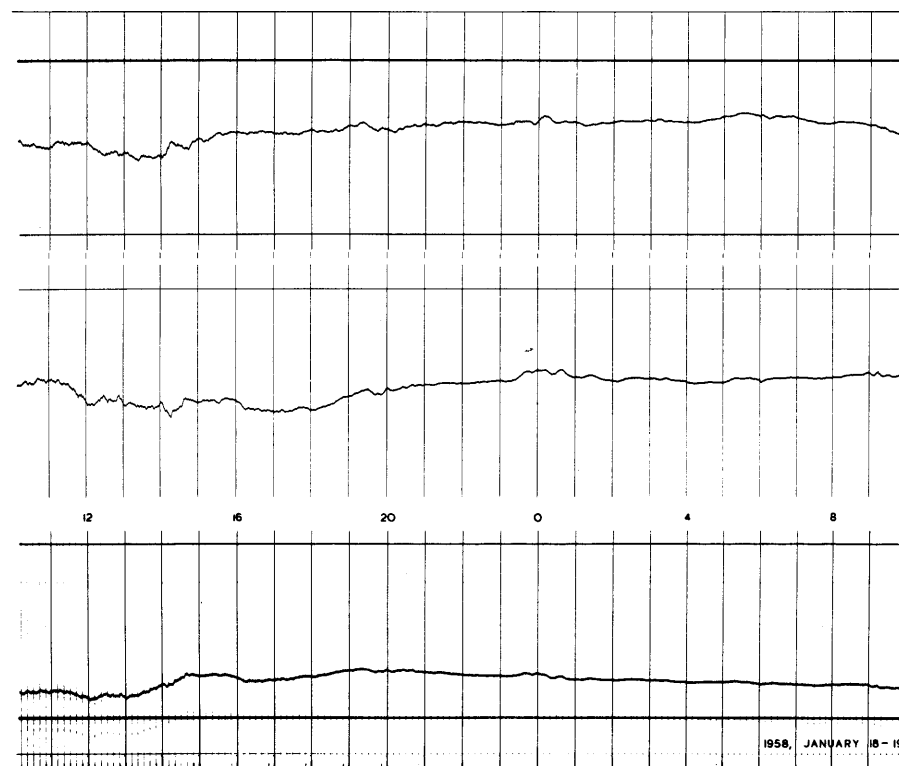


JANUARY 16-17

1958

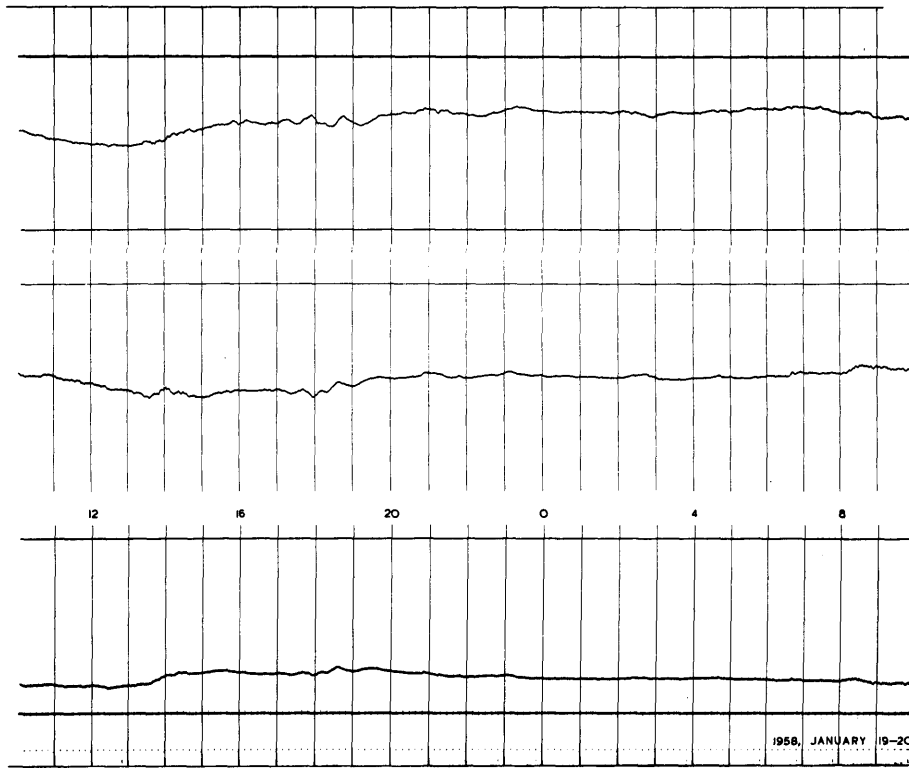


JANUARY 17-18

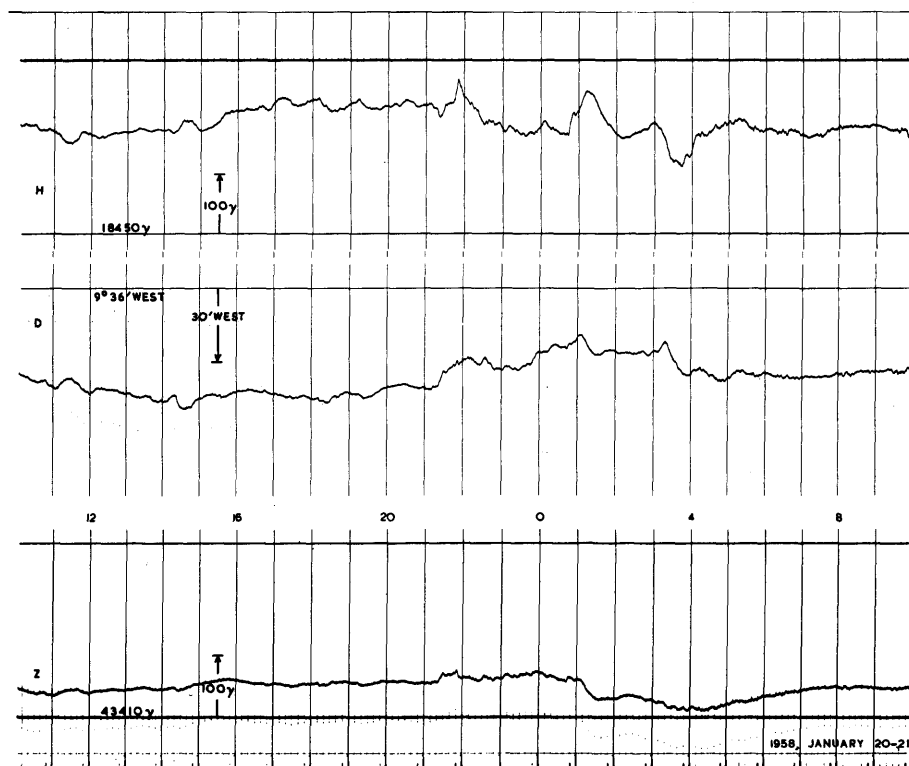


JANUARY 18-19

1958



JANUARY 19-20

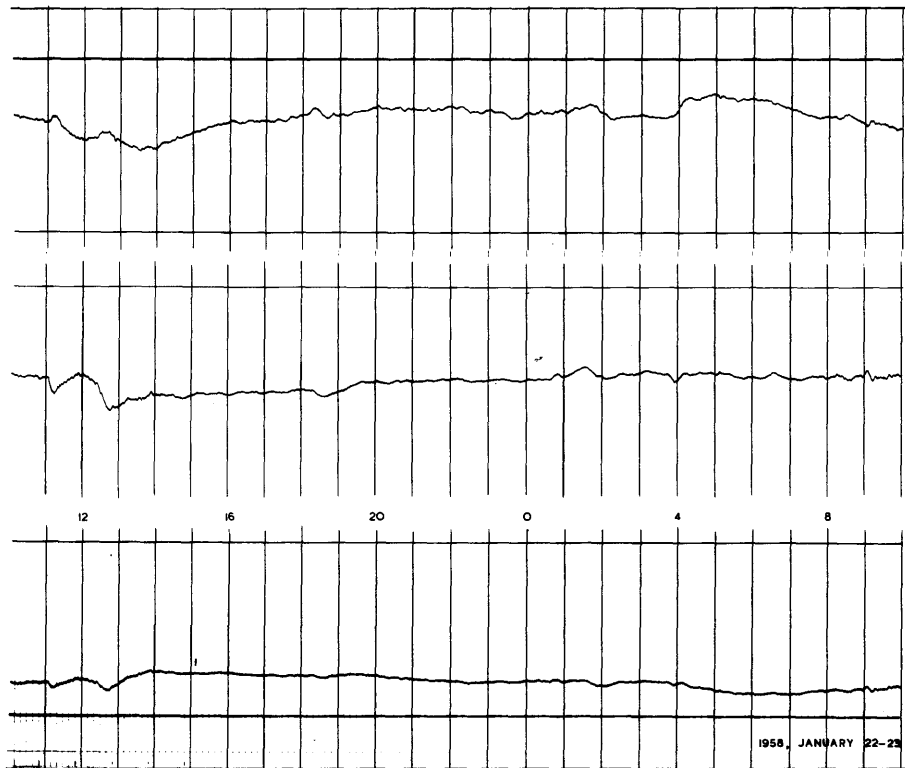


JANUARY 20-21

1958

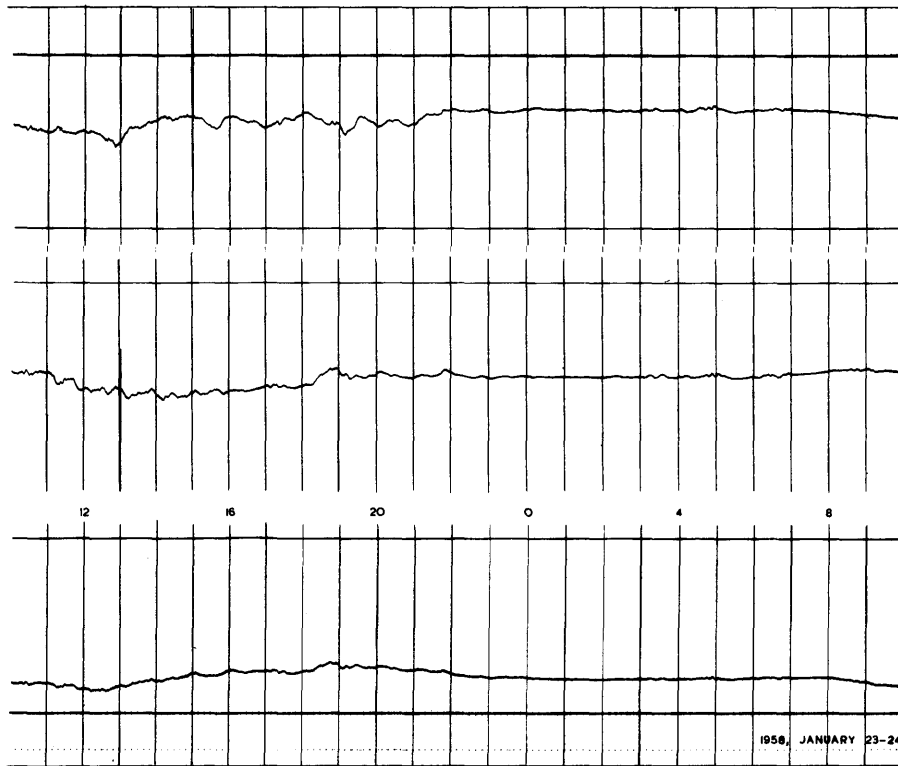


JANUARY 21-22

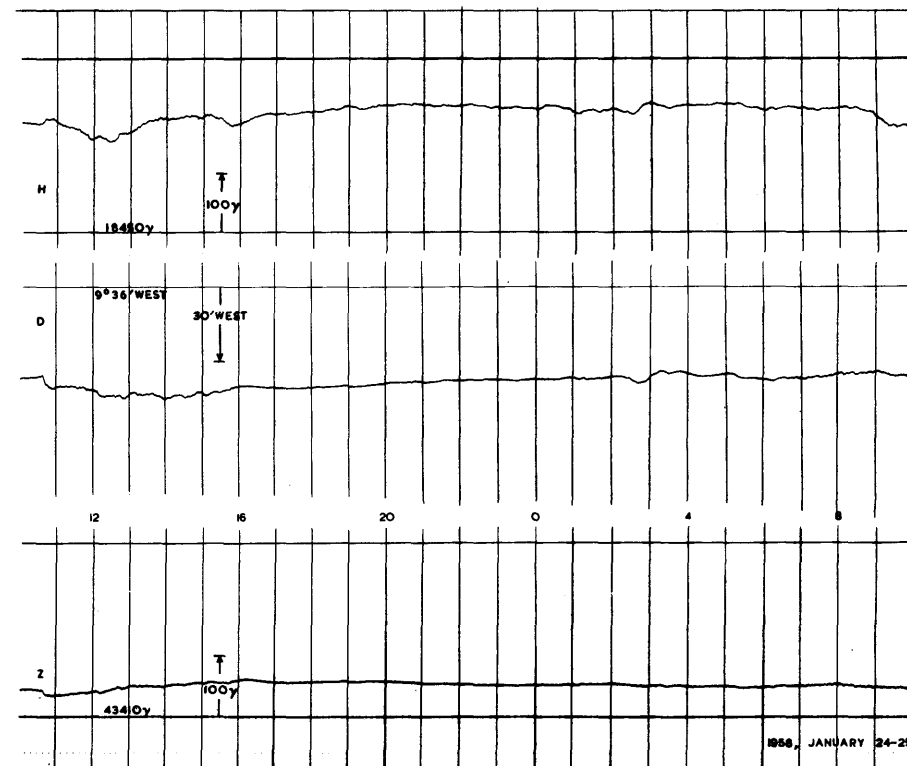


JANUARY 22-23

1958

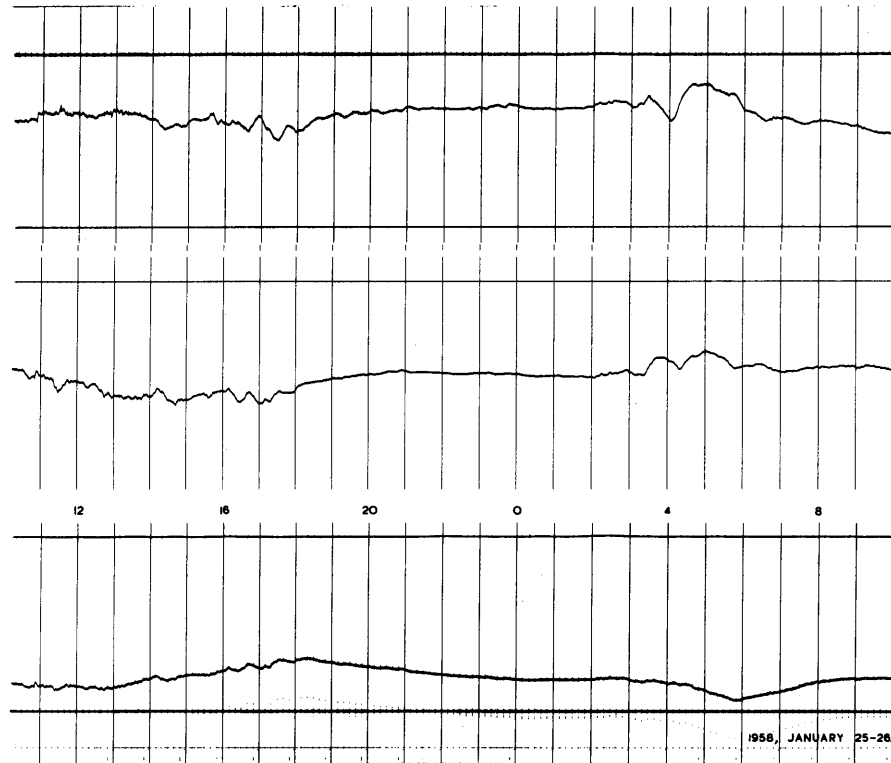


JANUARY 23-24

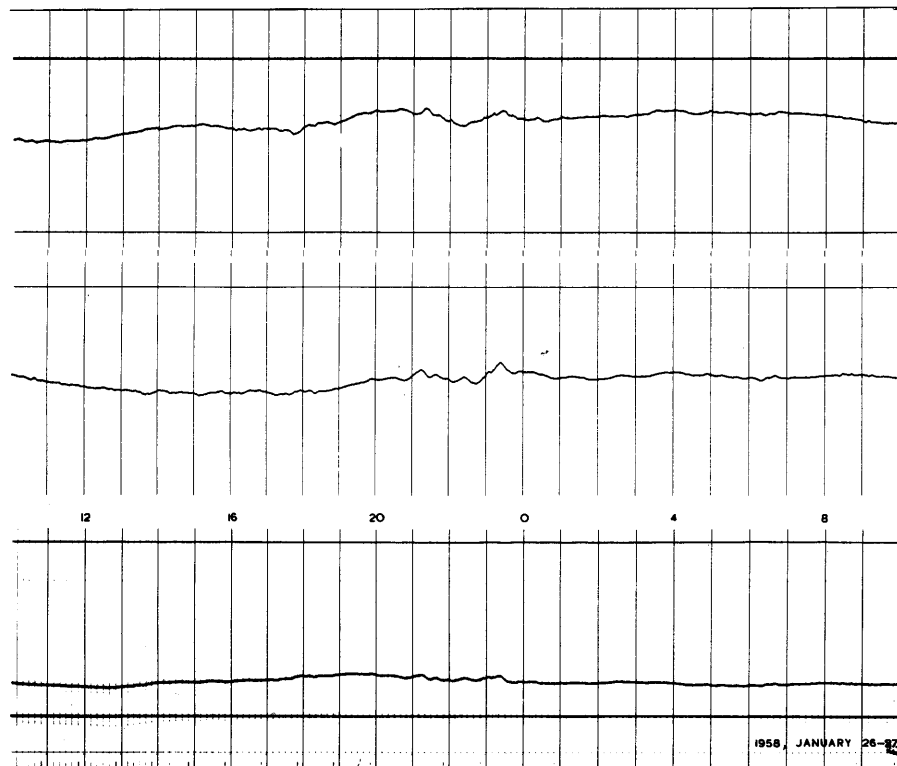


JANUARY 24-25

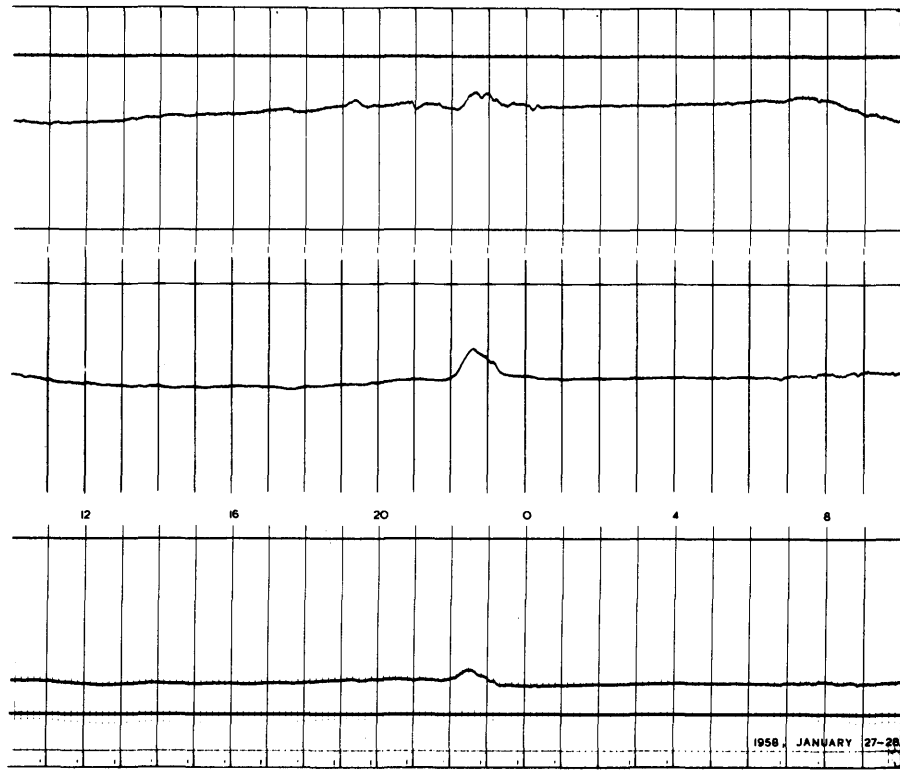
1958



JANUARY 25-26

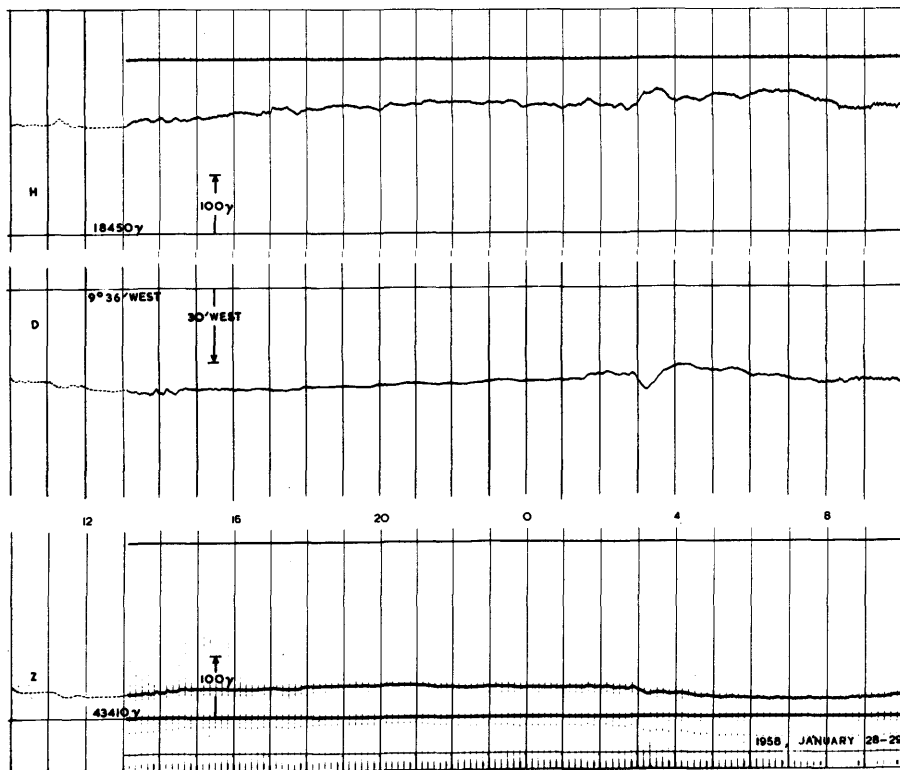


JANUARY 26-27



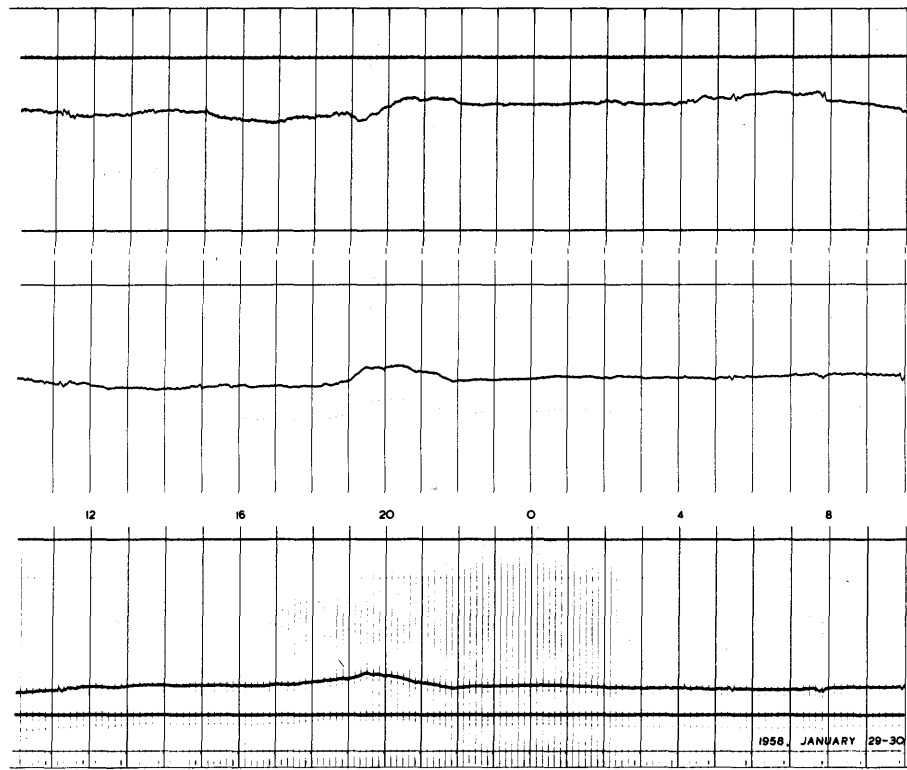
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JANUARY 27-28

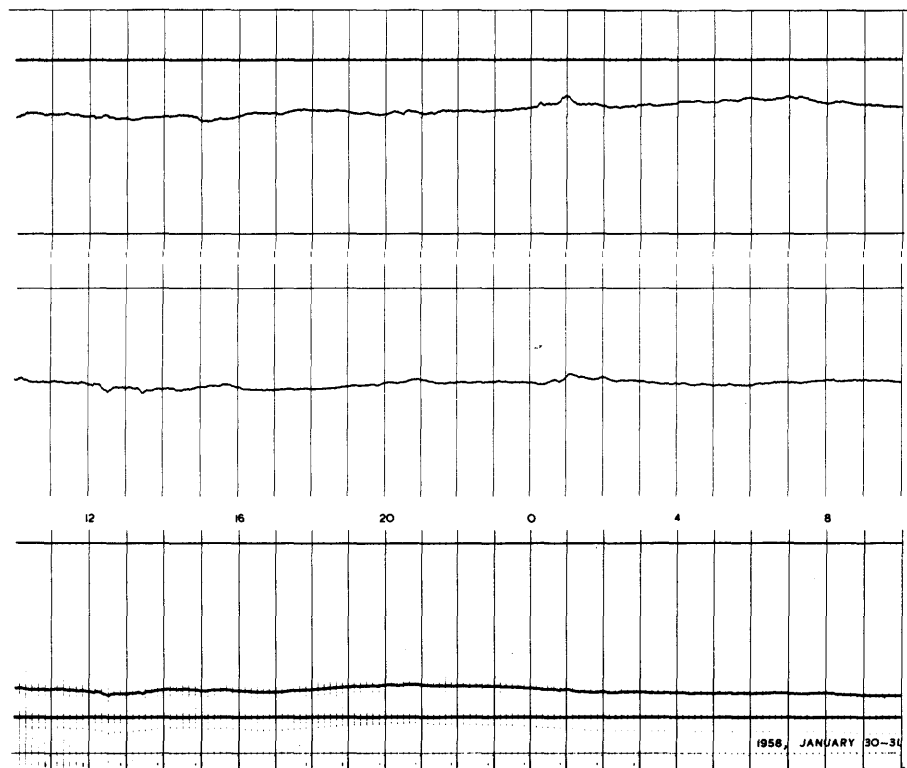


JANUARY 28-29

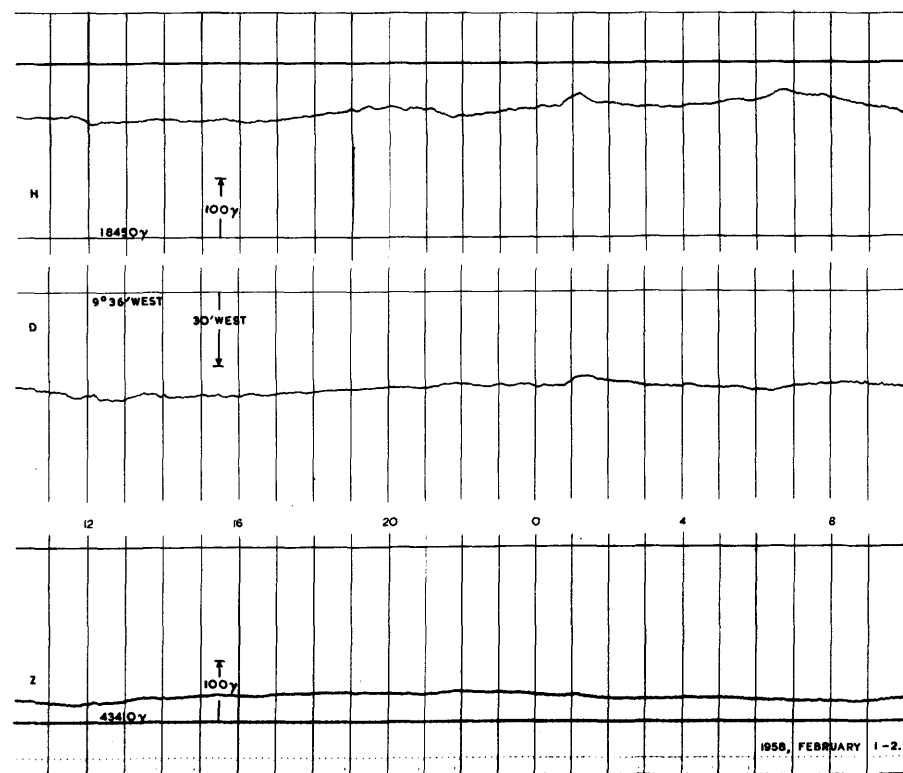
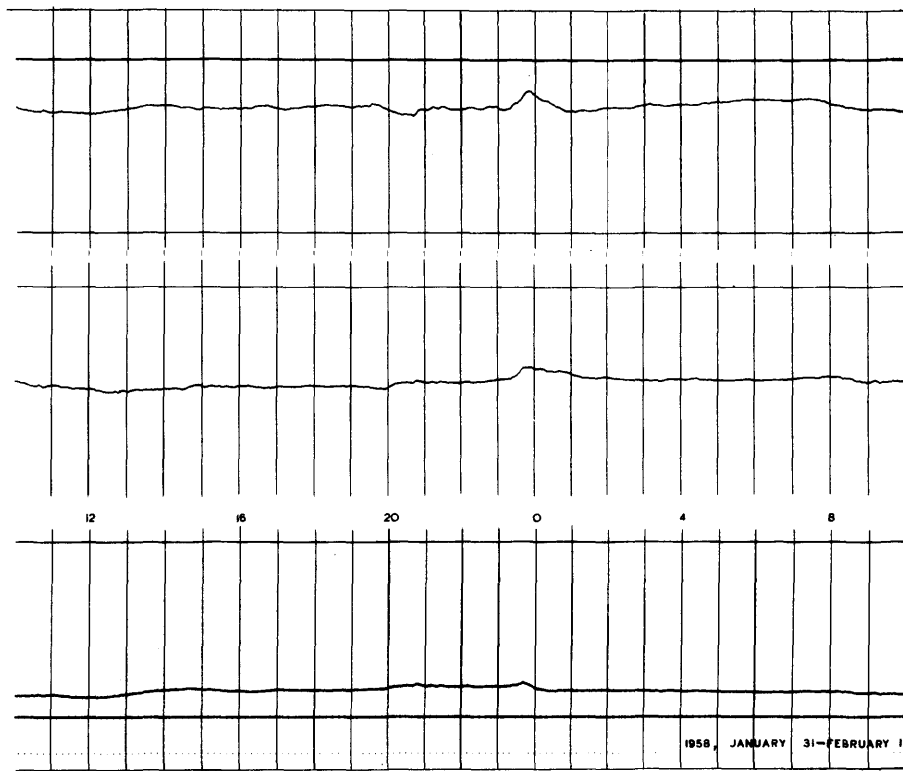
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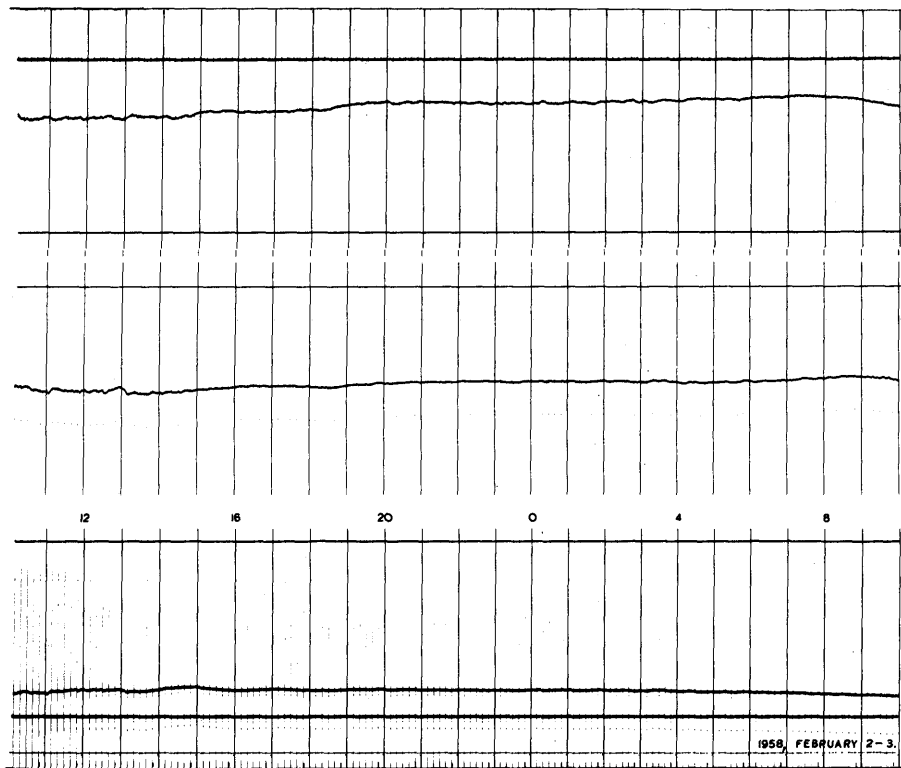
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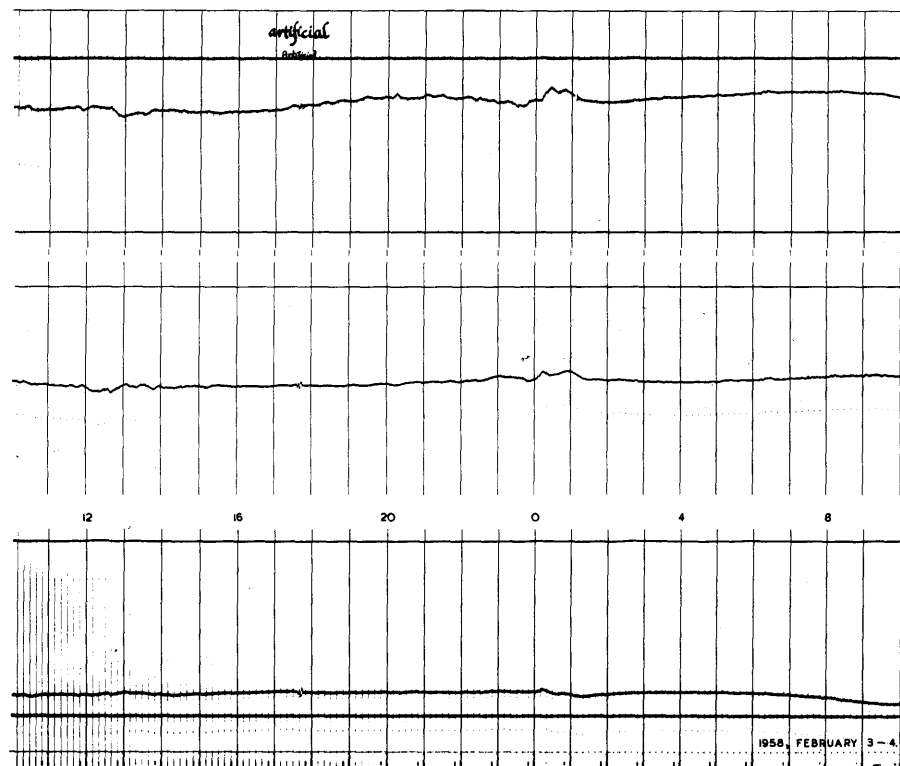
JANUARY 30-31



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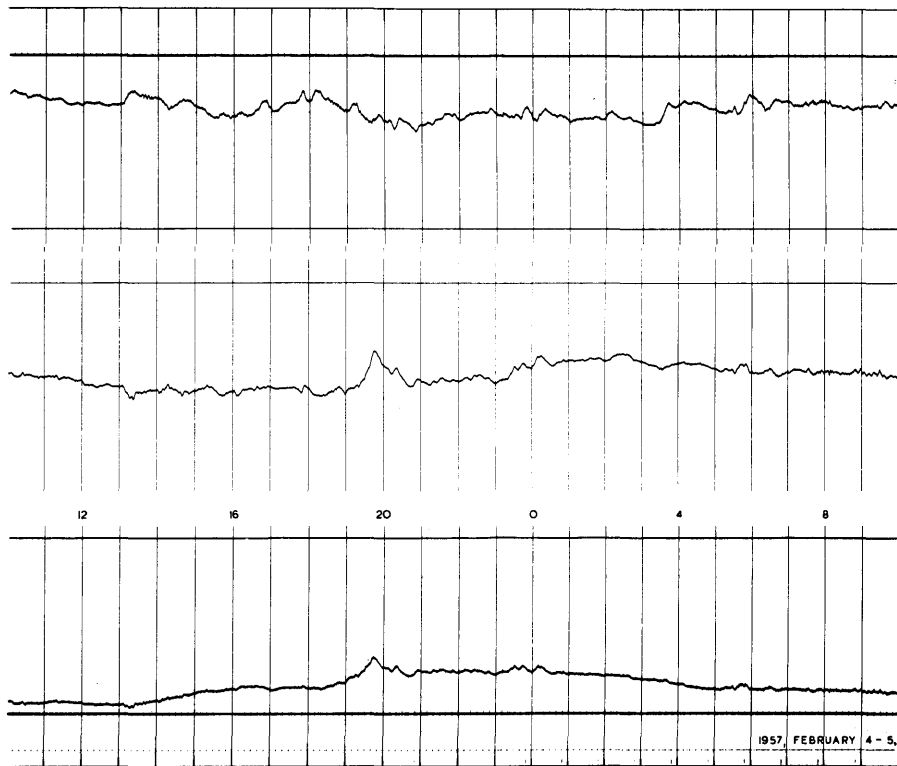


FEBRUARY 2-3

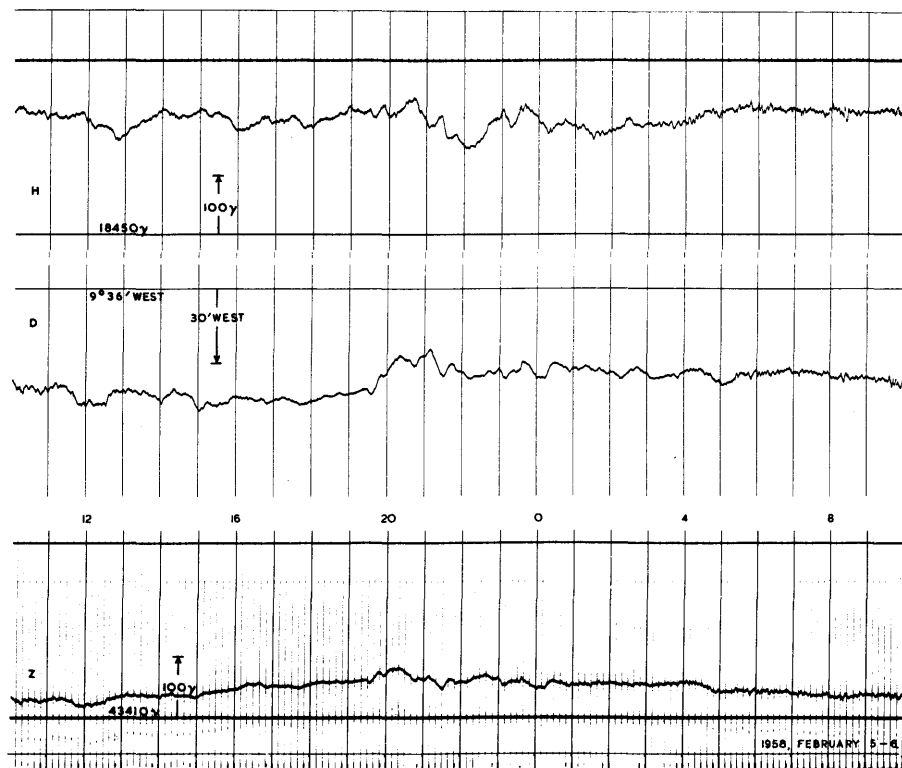


FEBRUARY 3-4

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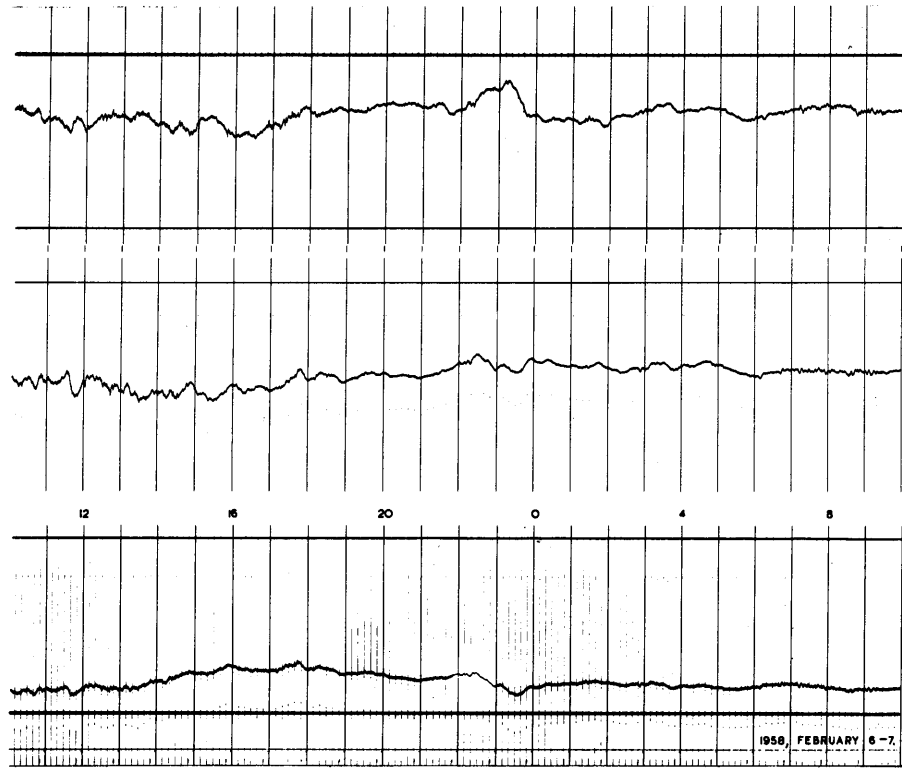


FEBRUARY 4-5

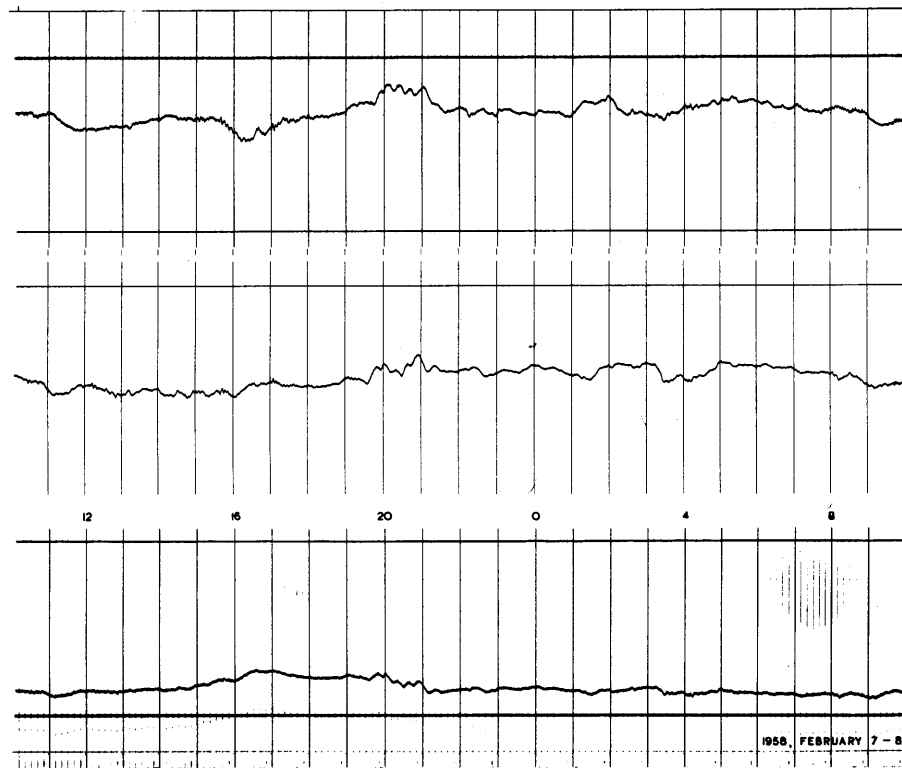


FEBRUARY 5-6

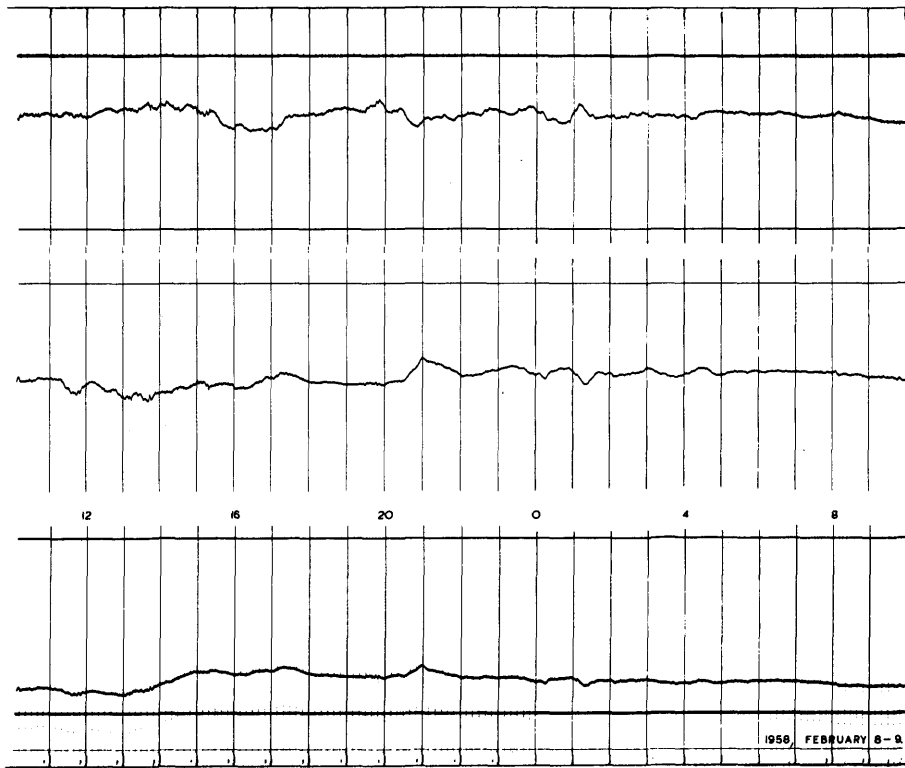
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FEBRUARY 6-7

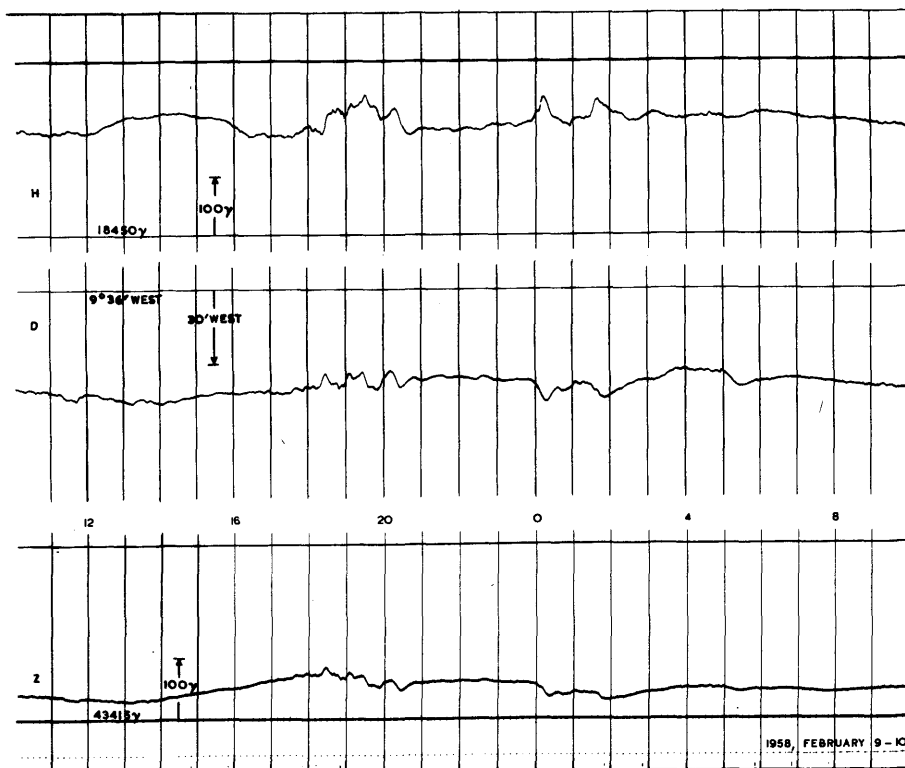


FEBRUARY 7-8



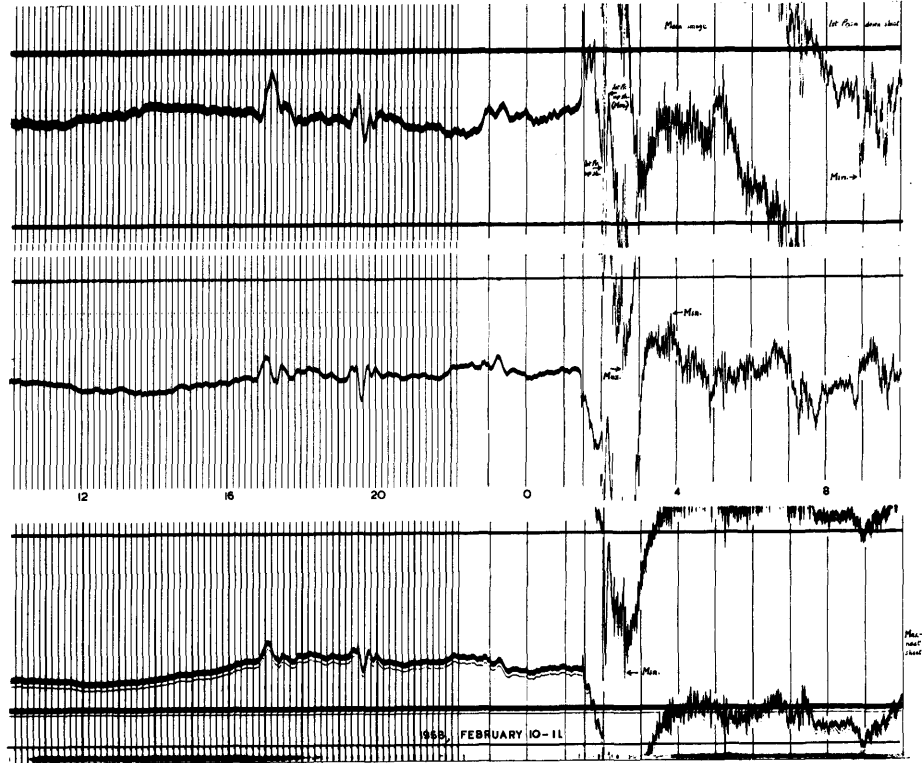
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FEBRUARY 8-9

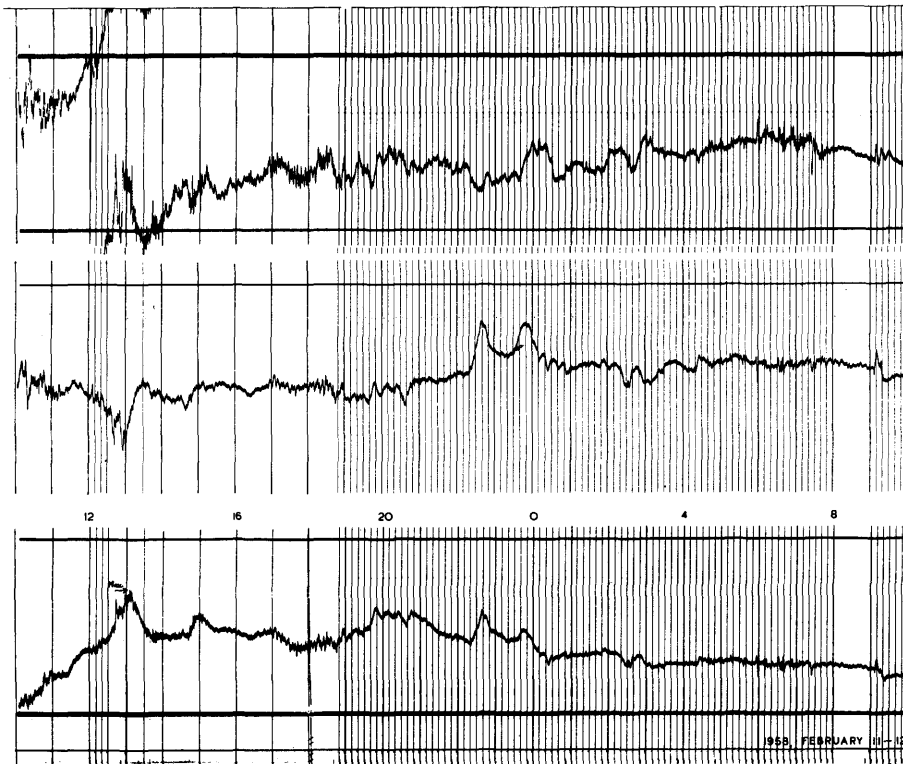


FEBRUARY 9-10

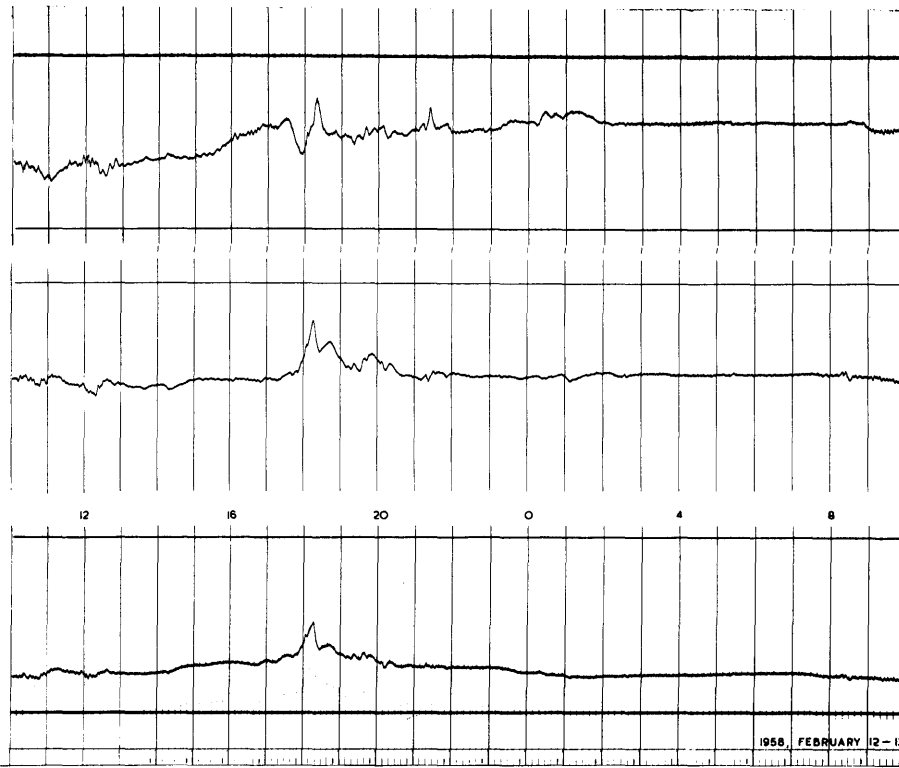
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FEBRUARY 10-11

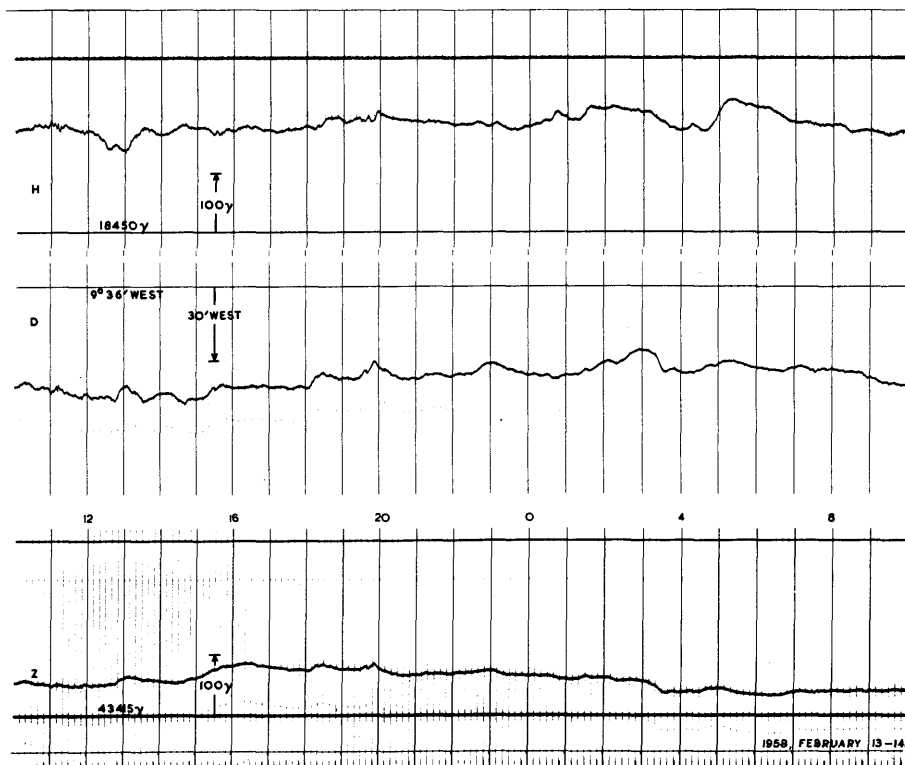


FEBRUARY 11-12



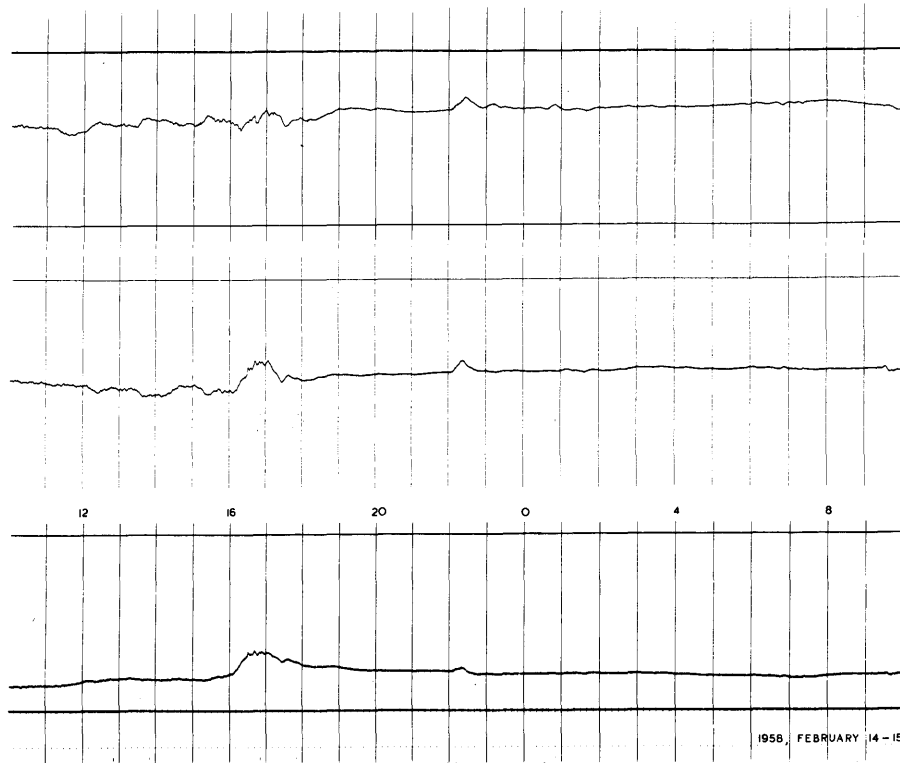
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FEBRUARY 12-13

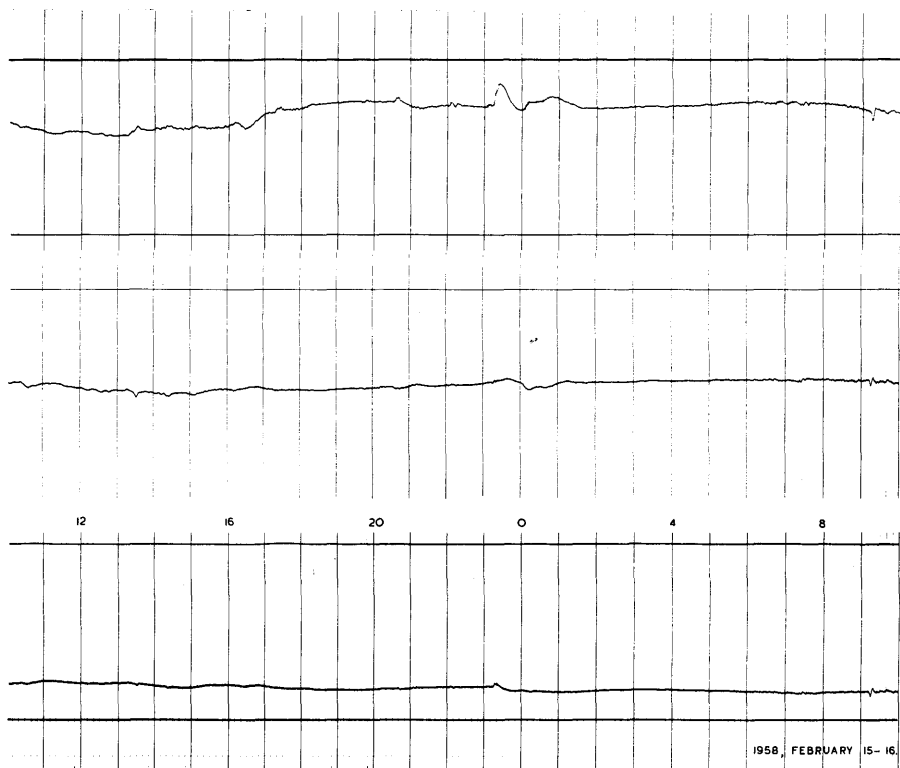


FEBRUARY 13-14

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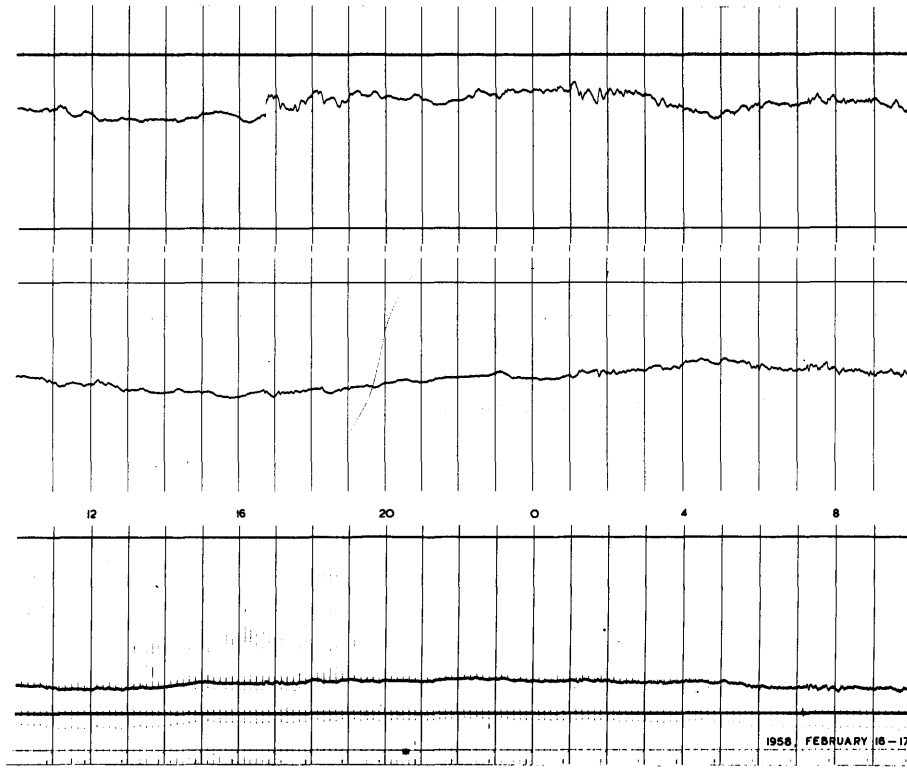


FEBRUARY 14-15

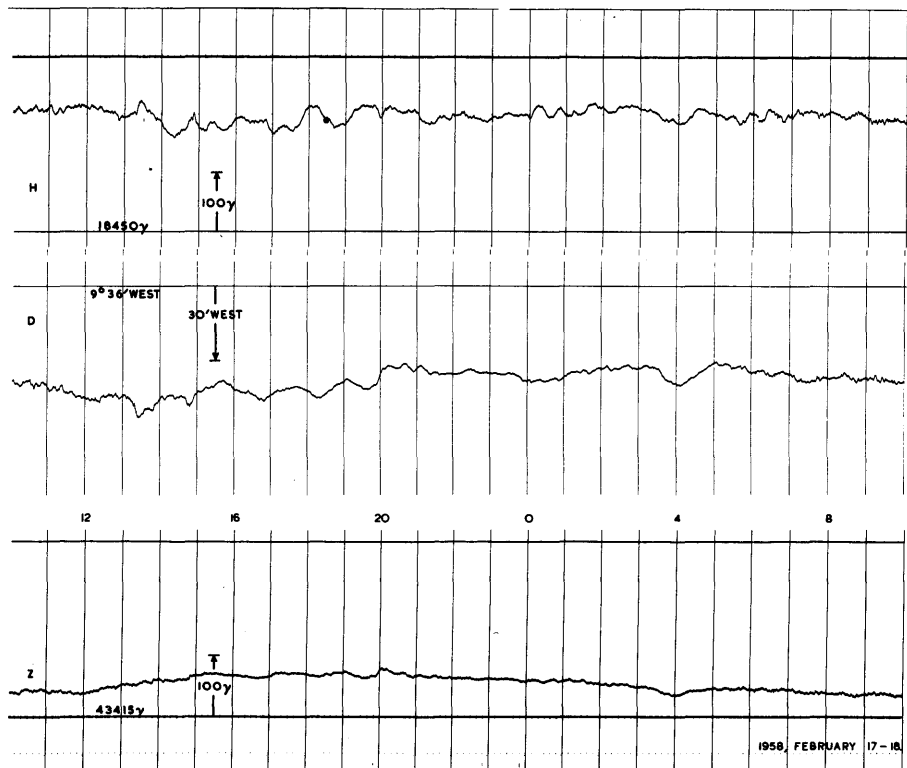


FEBRUARY 15-16

1958

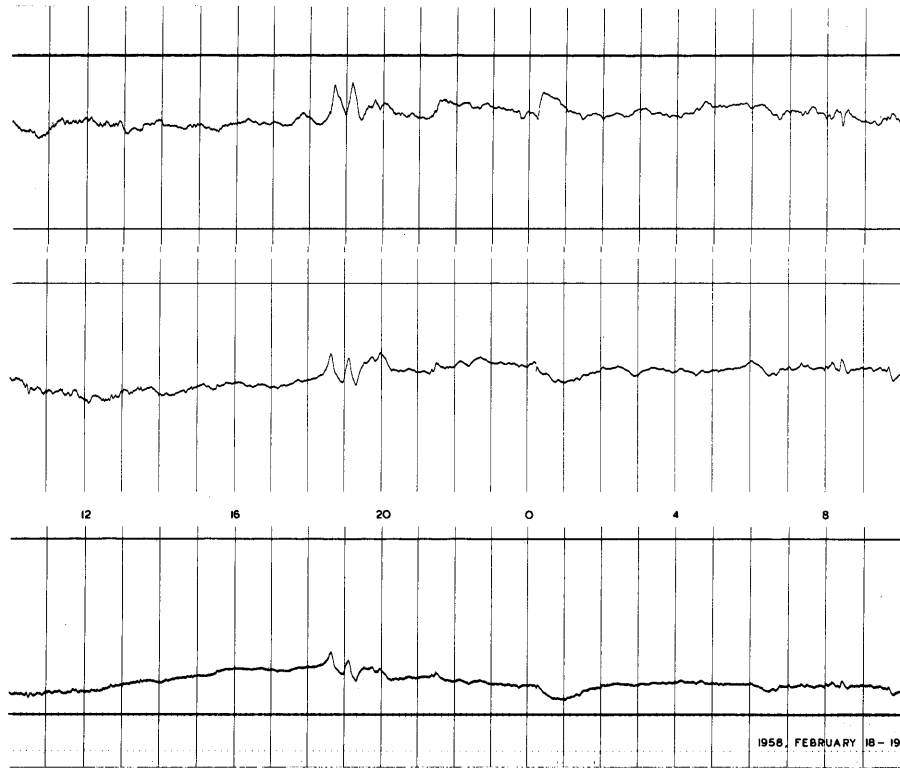


FEBRUARY 16-17

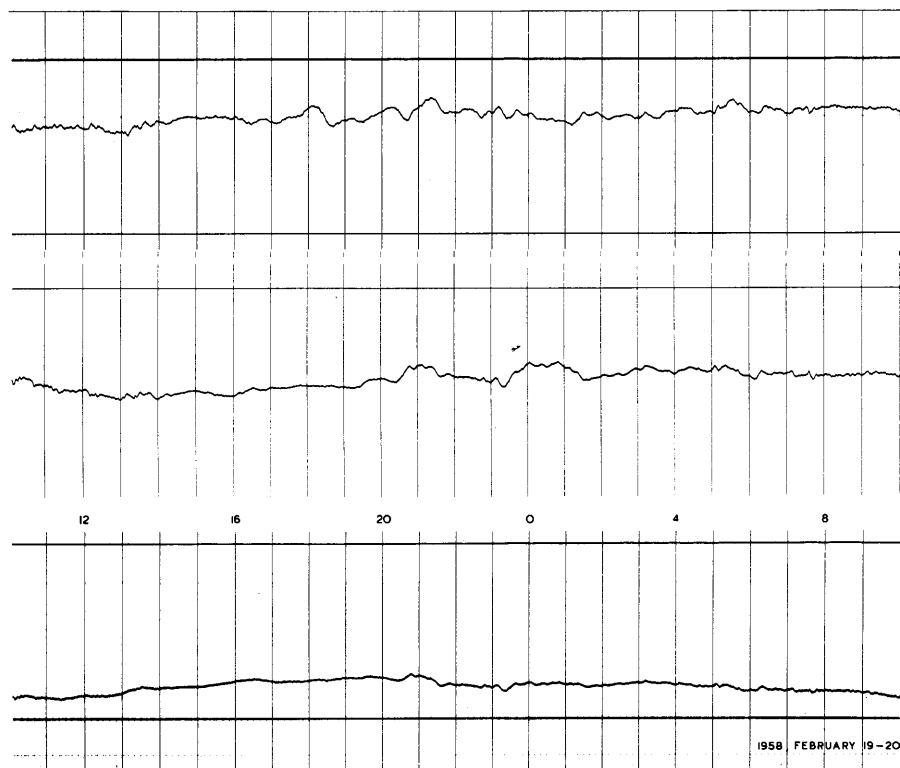


FEBRUARY 17-18

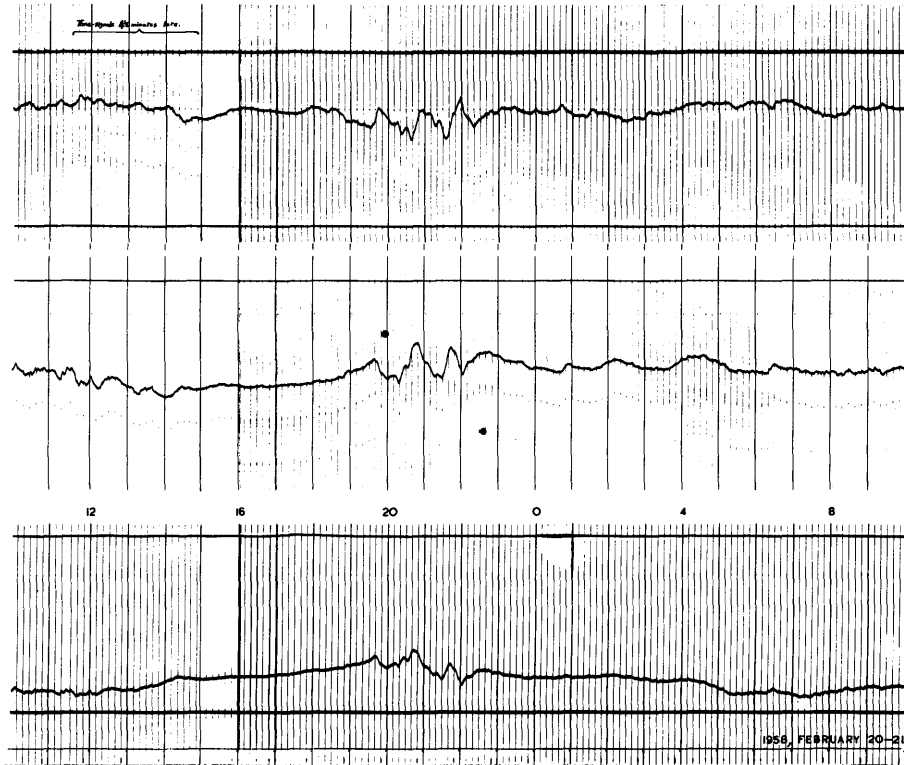
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FEBRUARY 18-19

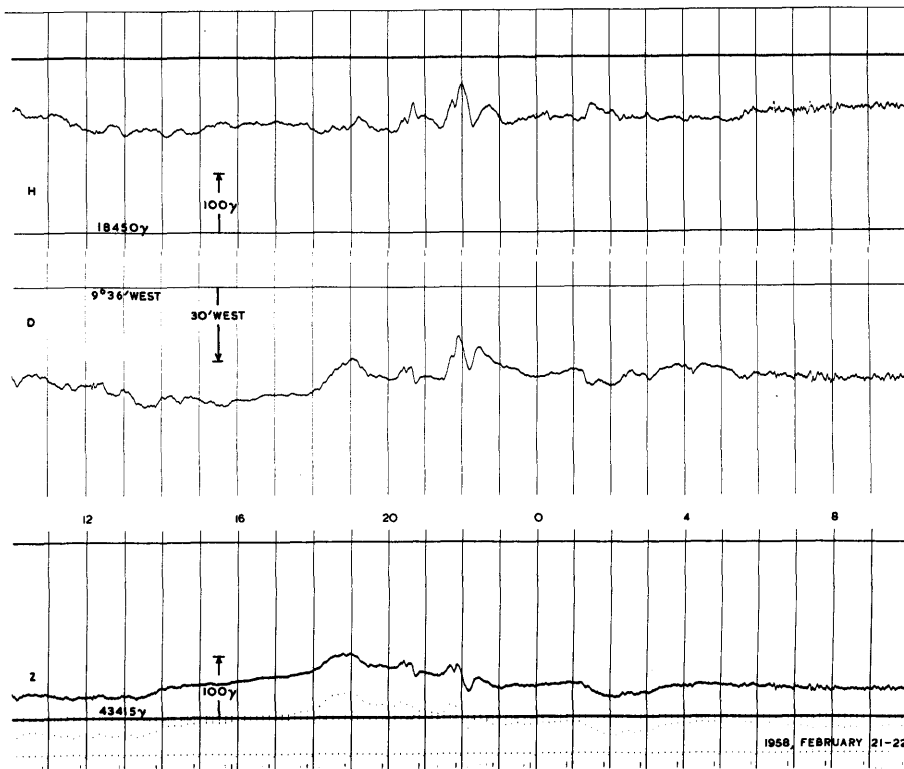


FEBRUARY 19-20



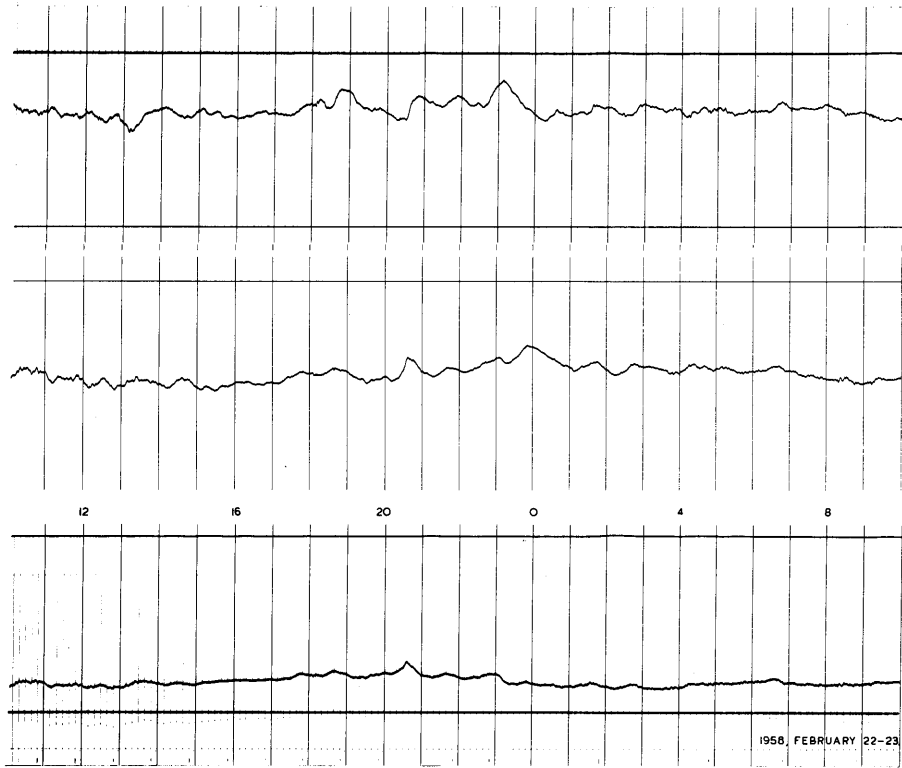
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FEBRUARY 20-21

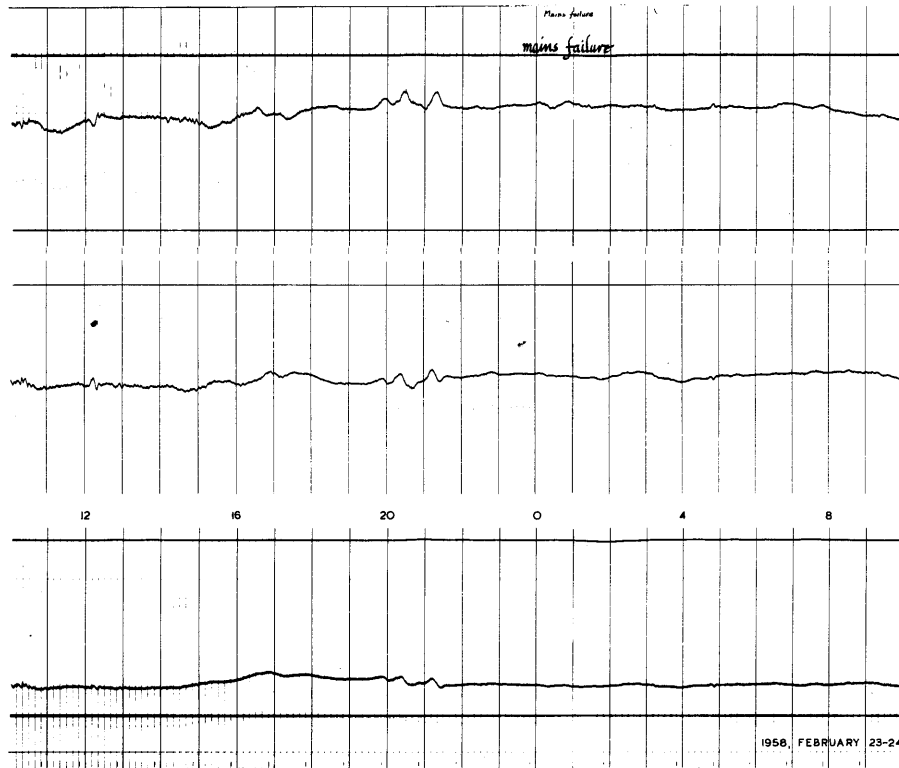


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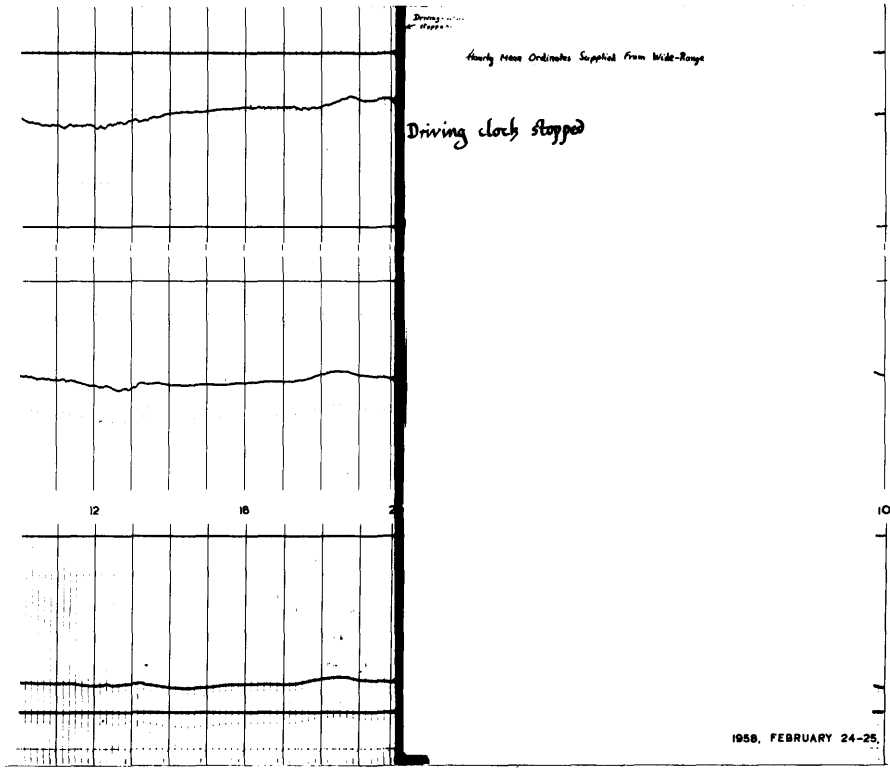
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FEBRUARY 22-23

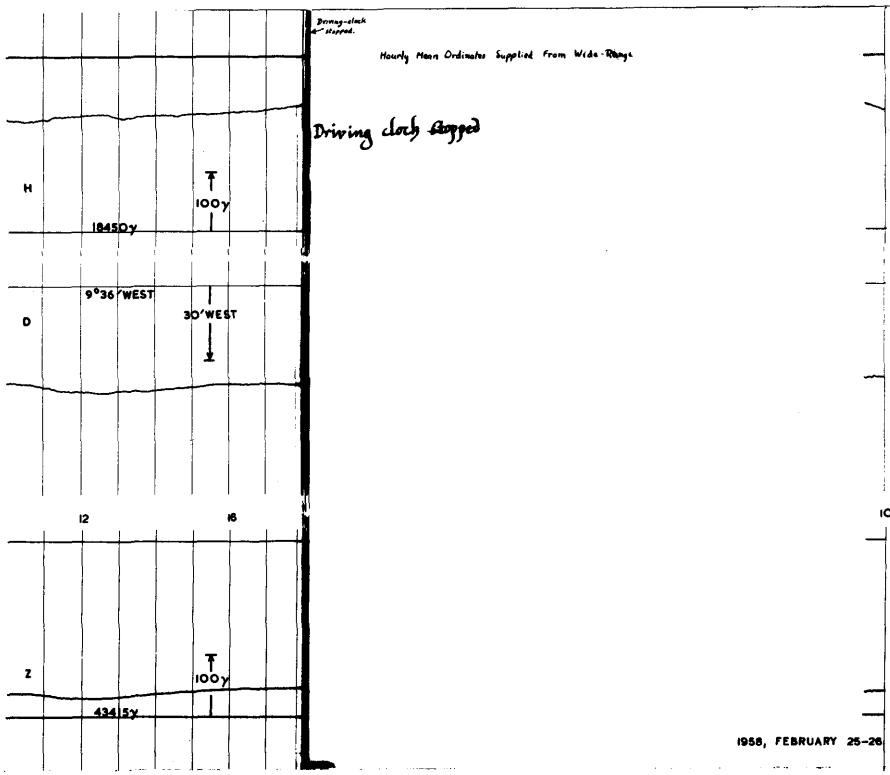


FEBRUARY 23-24



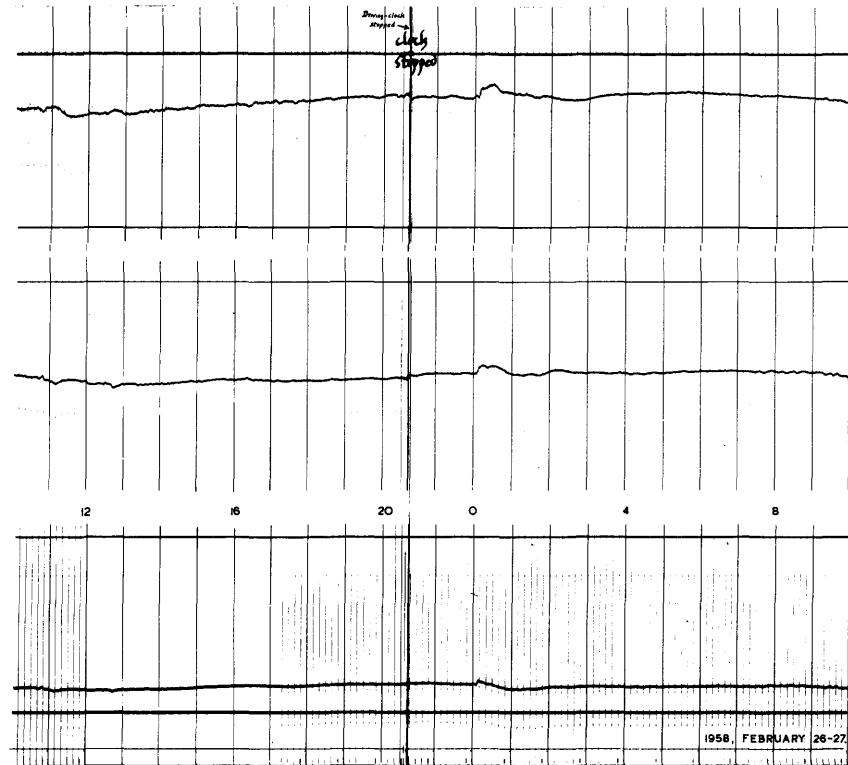
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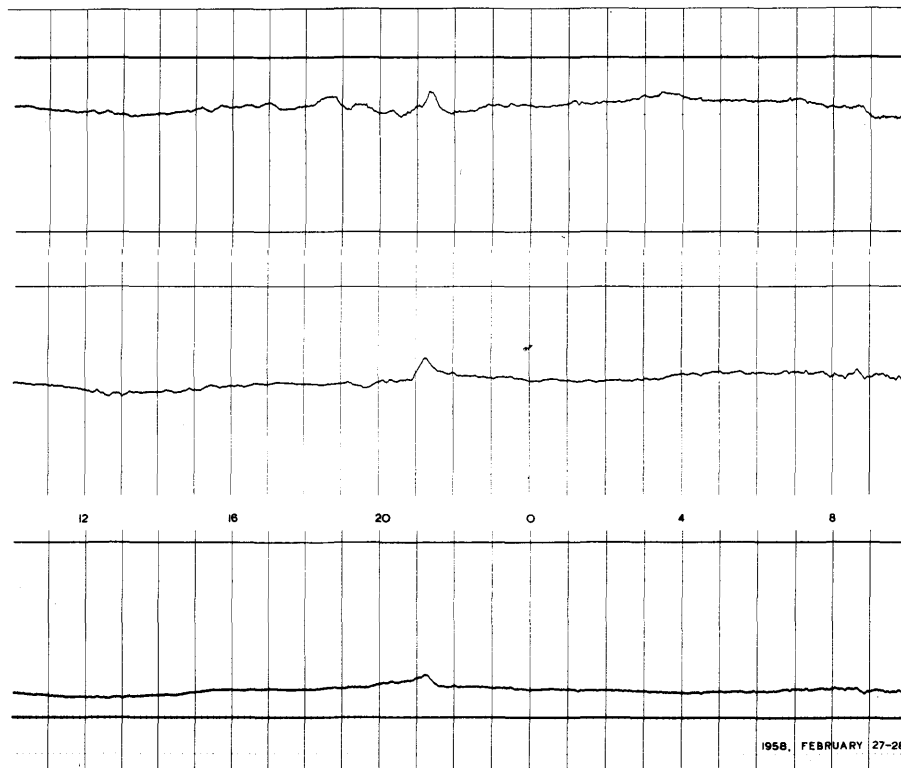


FEBRUARY 25-26

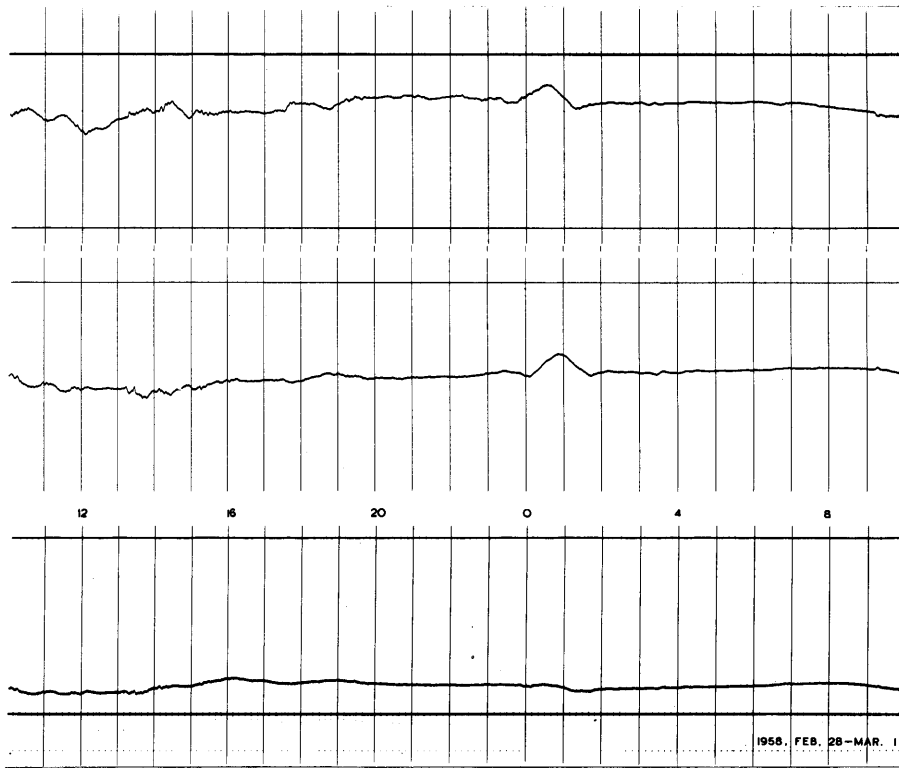
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FEBRUARY 26-27



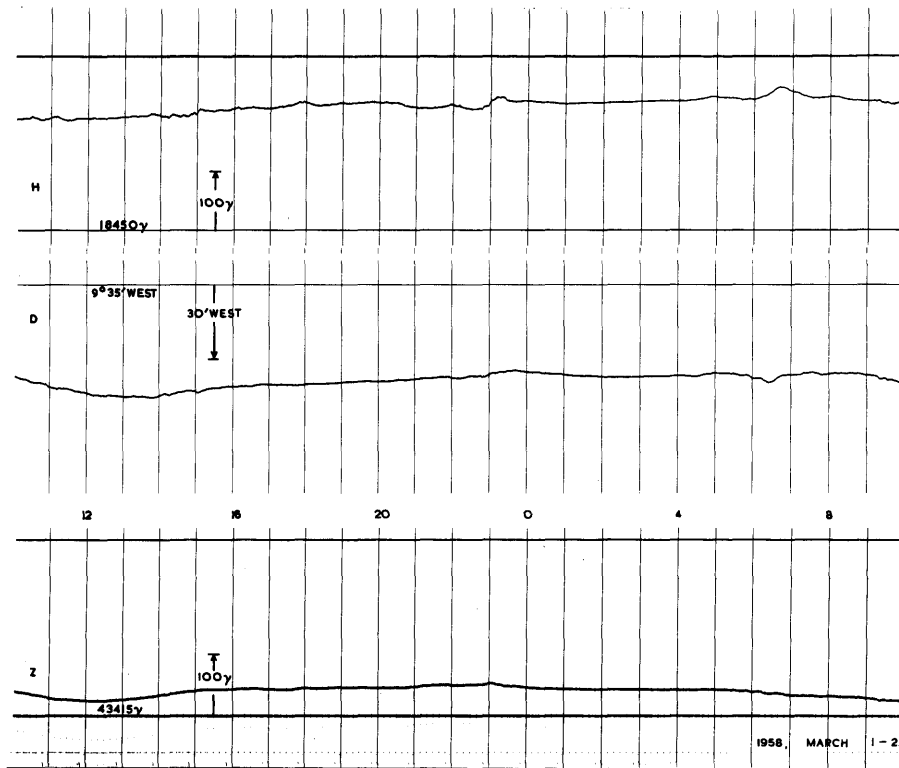
FEBRUARY 27-28



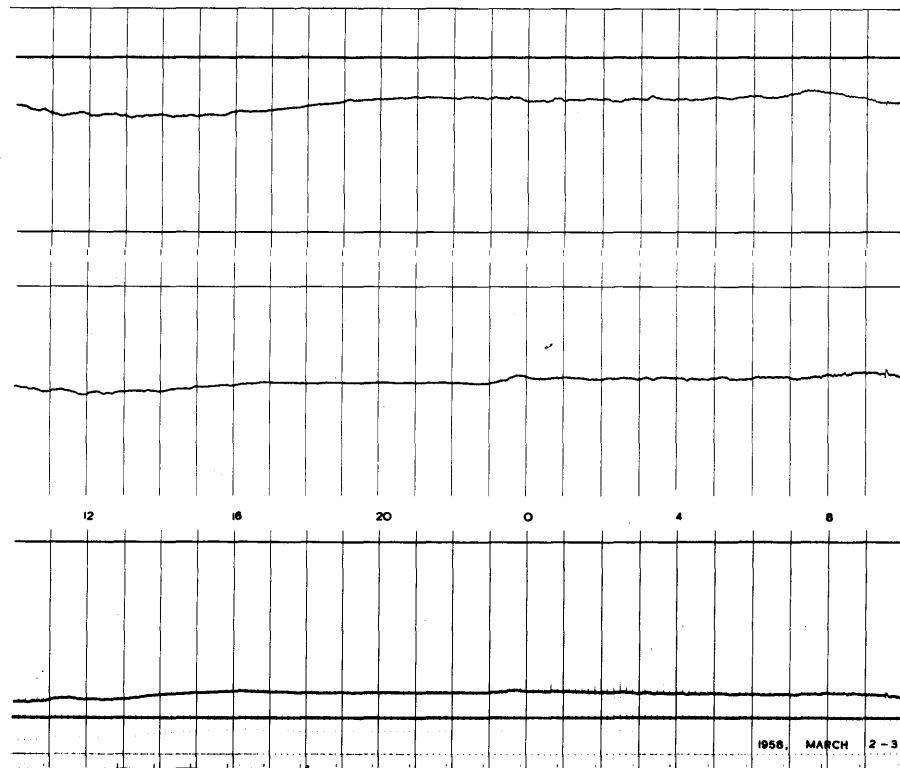
1958

FEB. 28-MAR. 1

1958

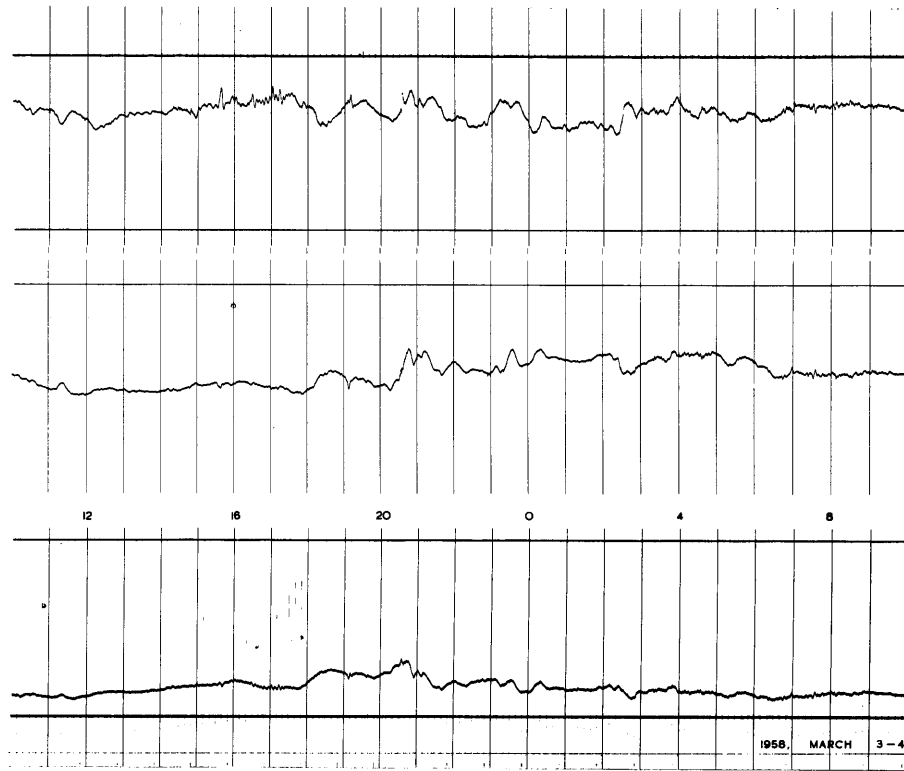


MARCH 1-2

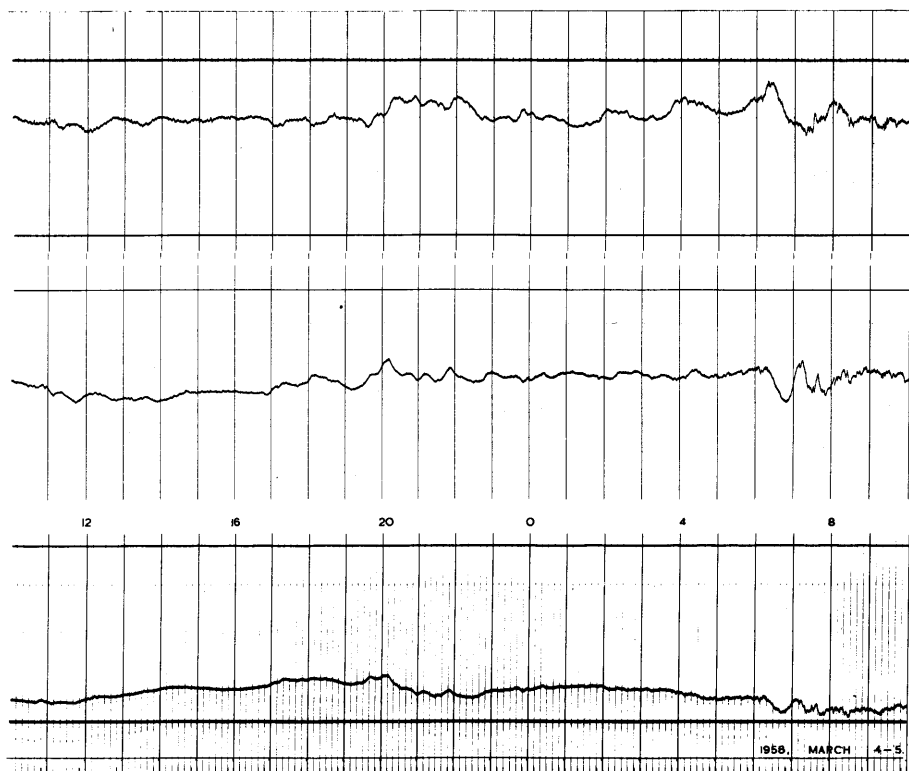


MARCH 2-3

1958

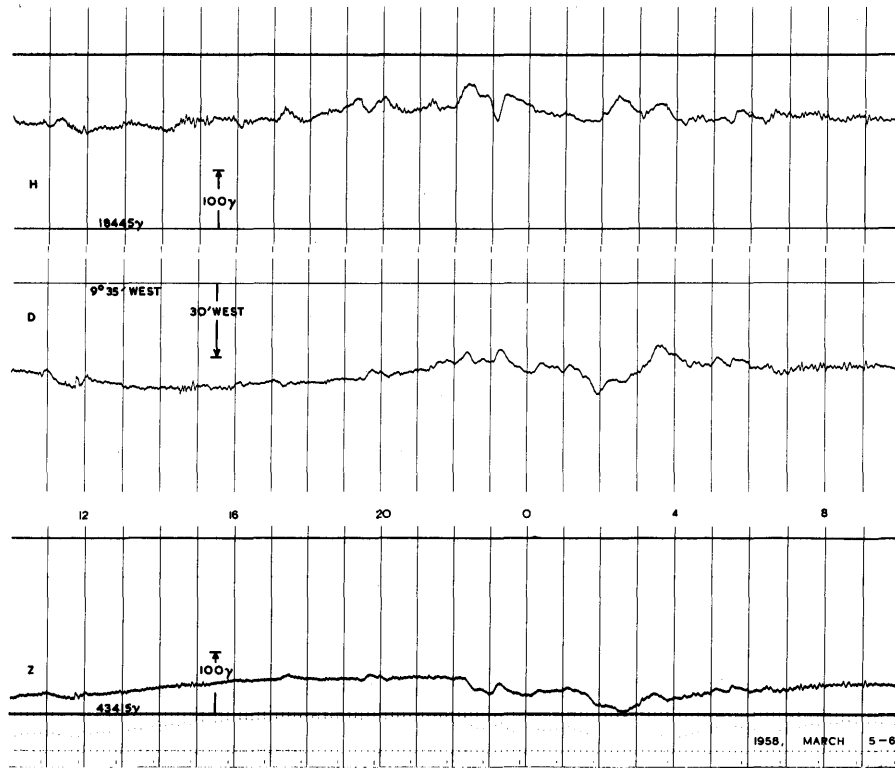


MARCH 3-4

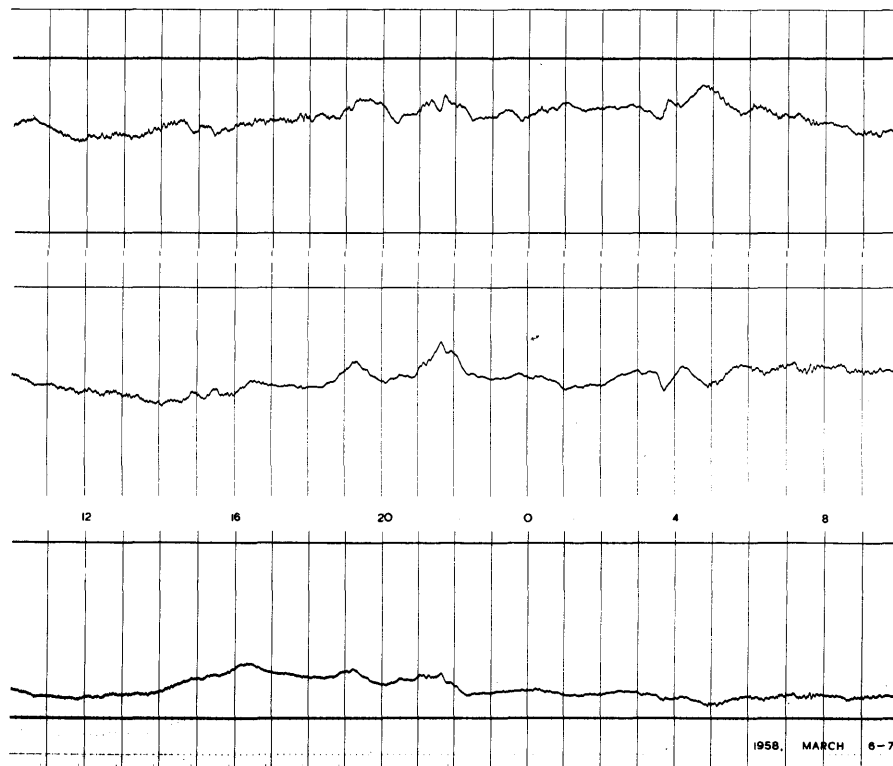


MARCH 4-5

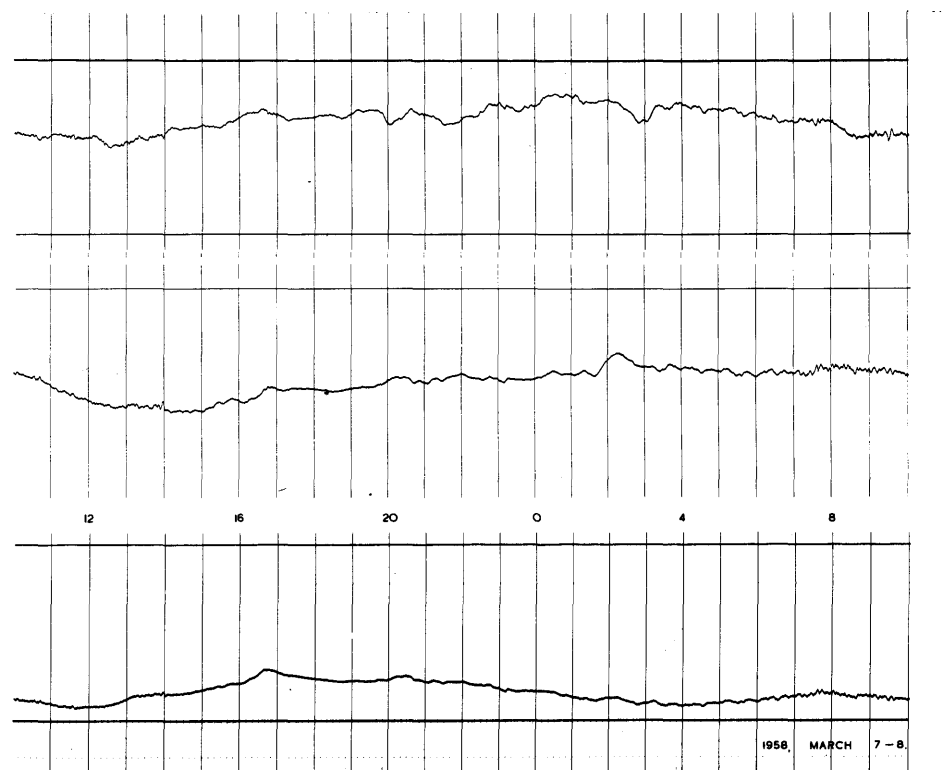
1958



MARCH 5-6

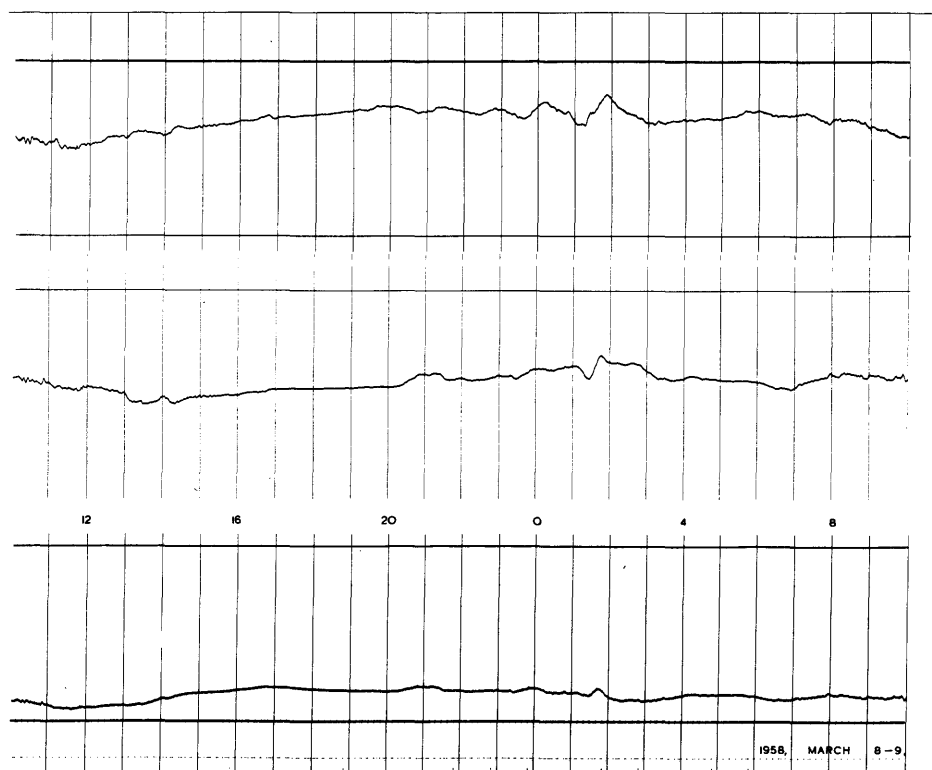


MARCH 6-7



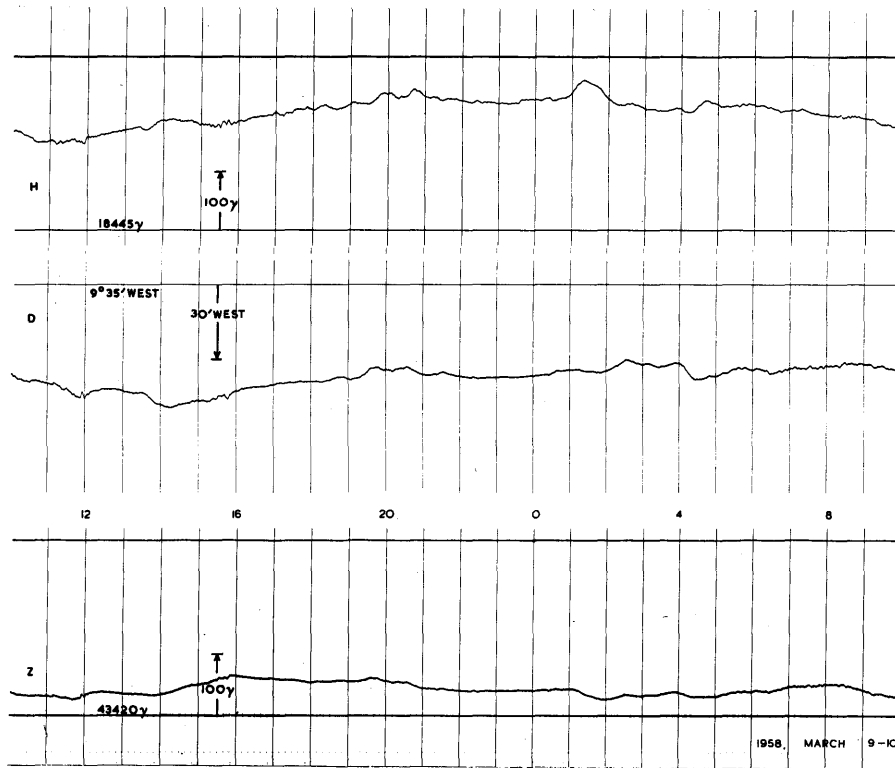
1958

MARCH 7-8

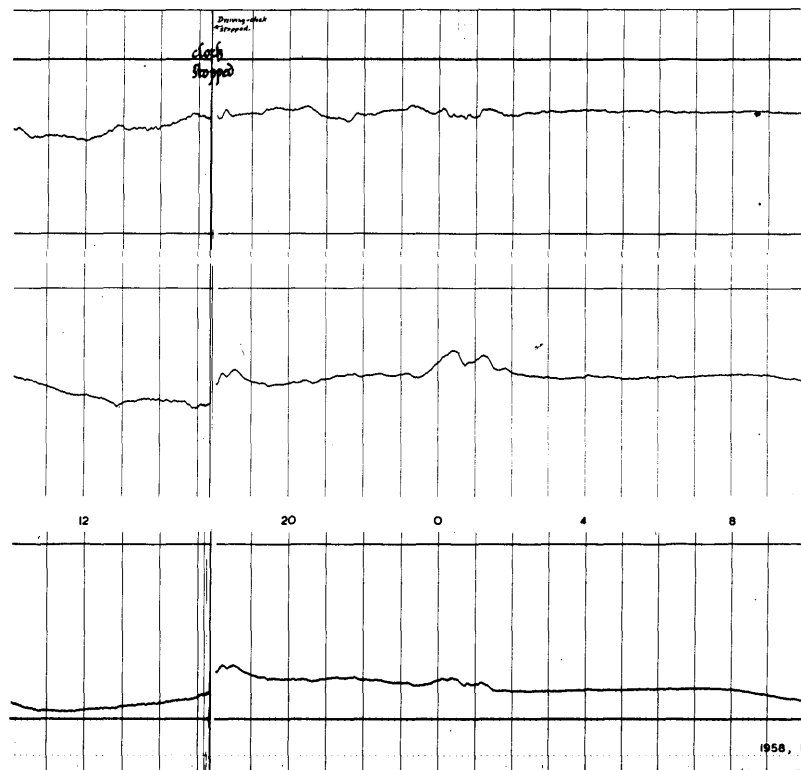


MARCH 8-9

1958

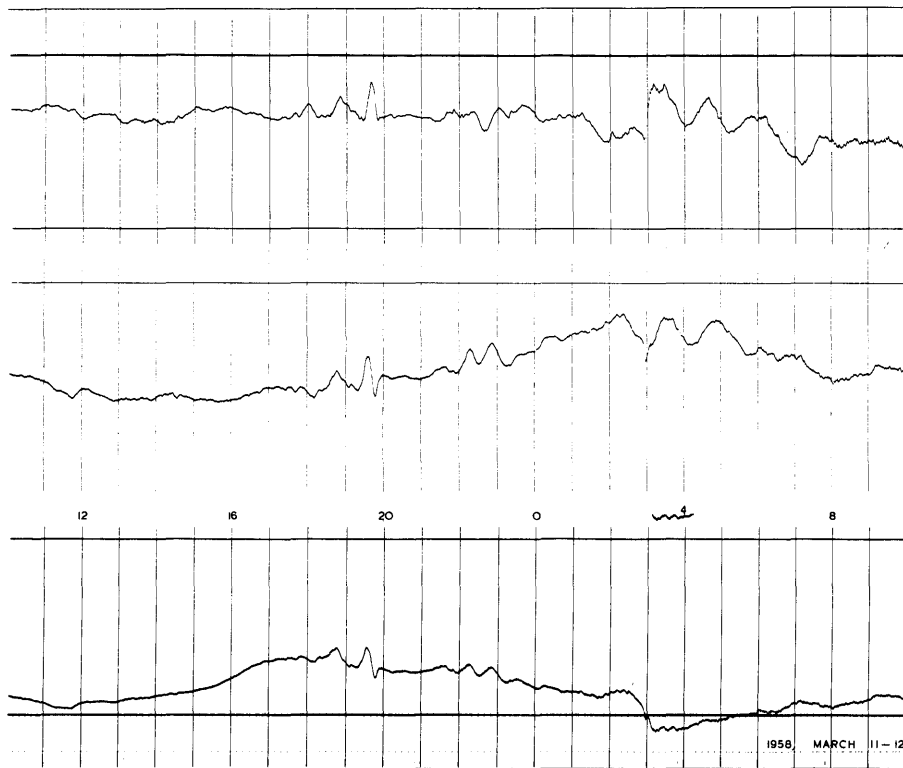


MARCH 9-10

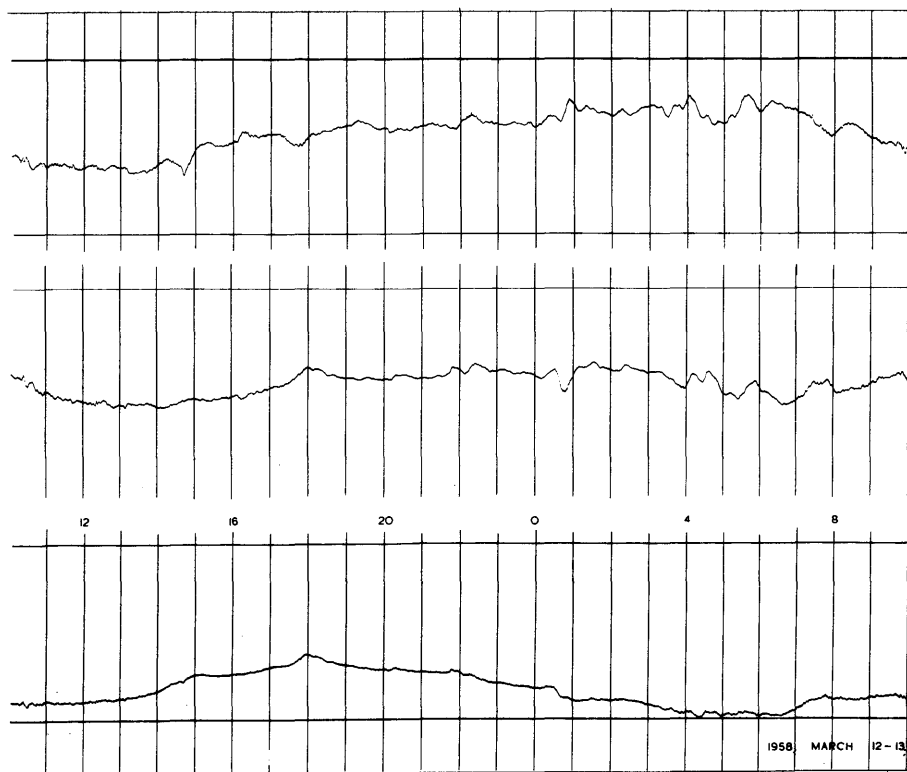


MARCH 10-11

1958



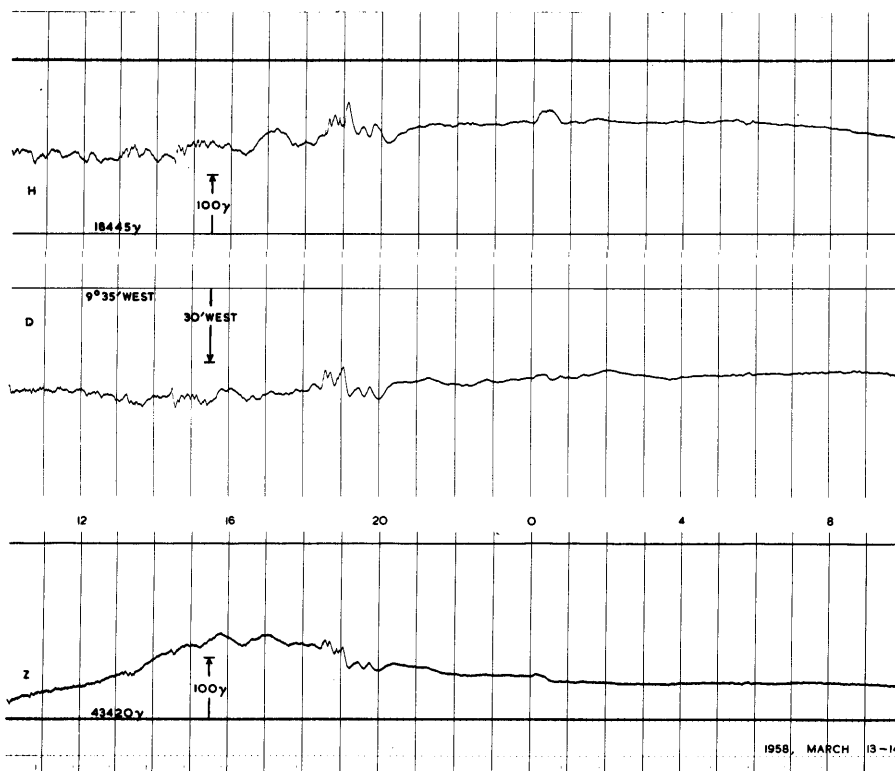
MARCH 11-12



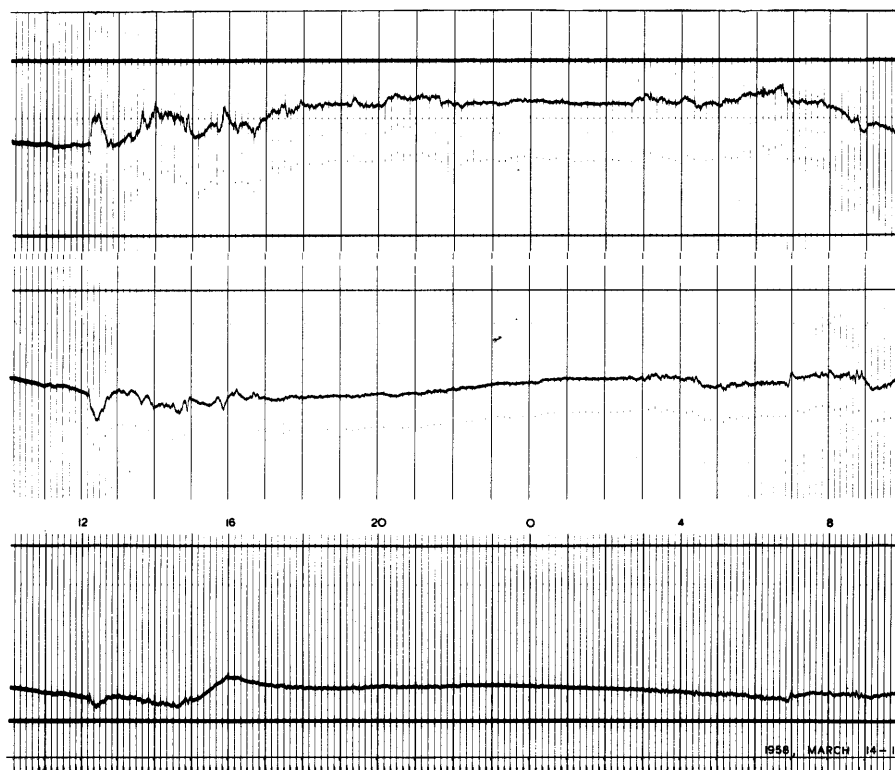
MARCH 12-13

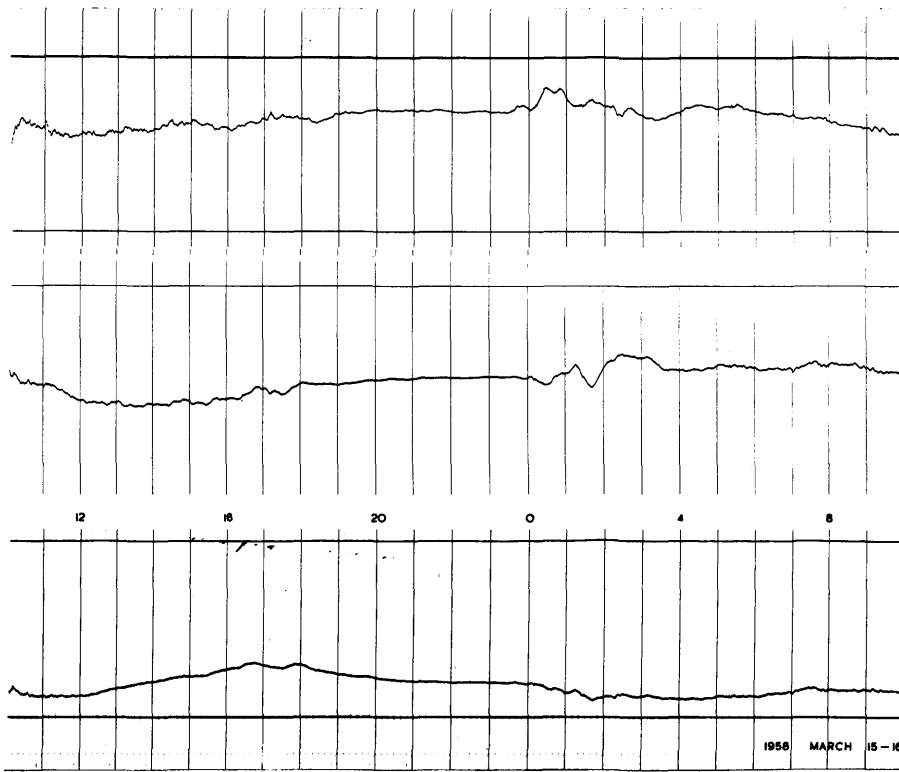
1958

MARCH 13-14



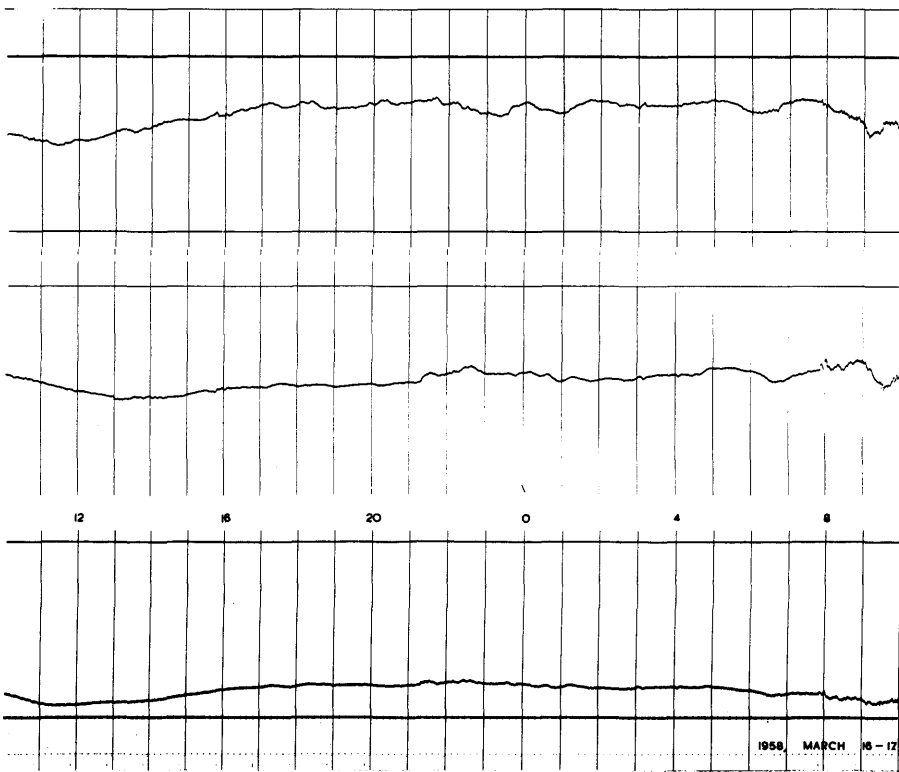
MARCH 14-15





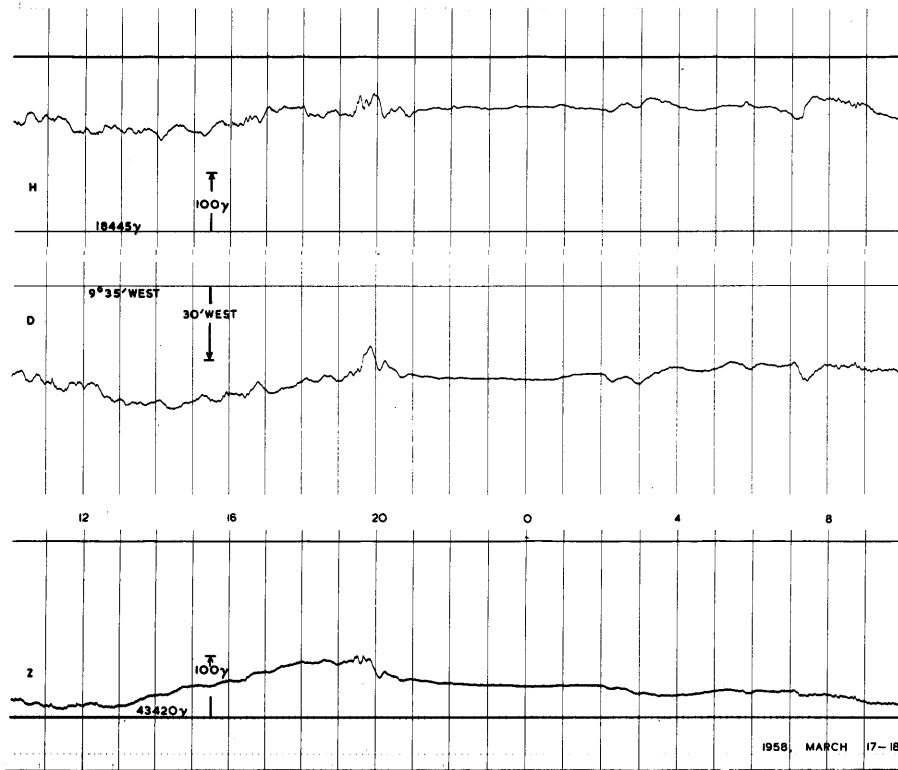
1958

MARCH 15-16

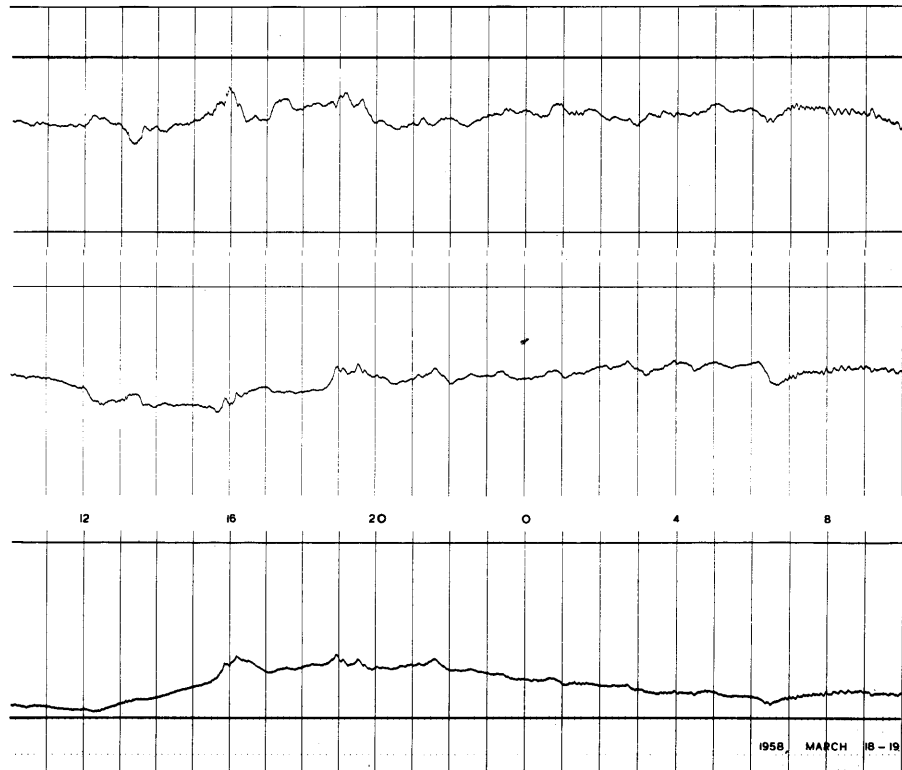


MARCH 16-17

1958

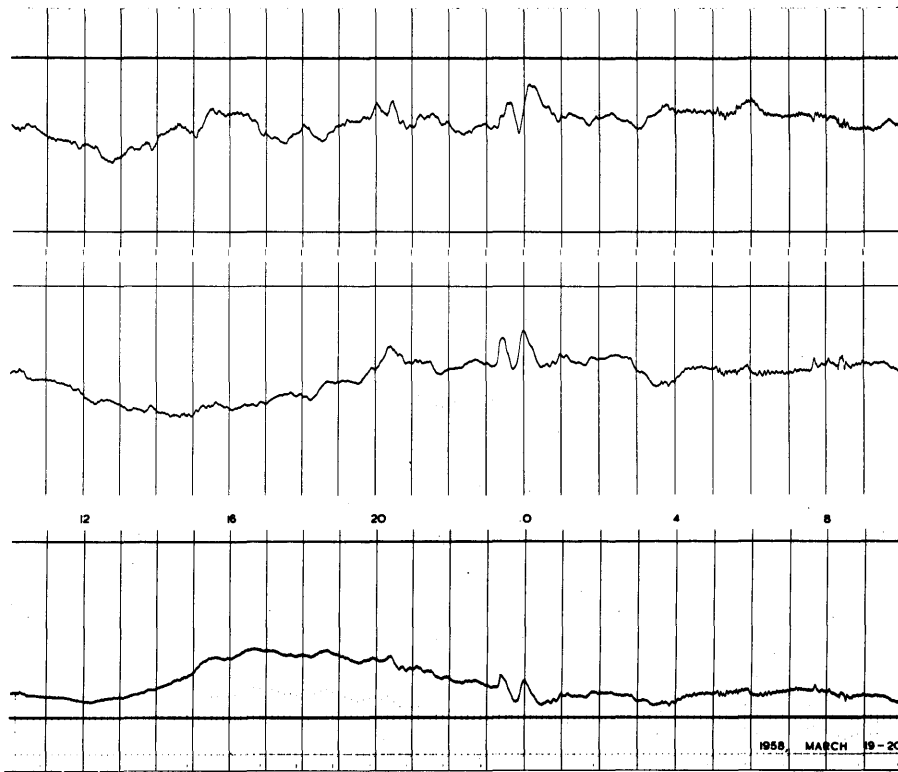


MARCH 17-18

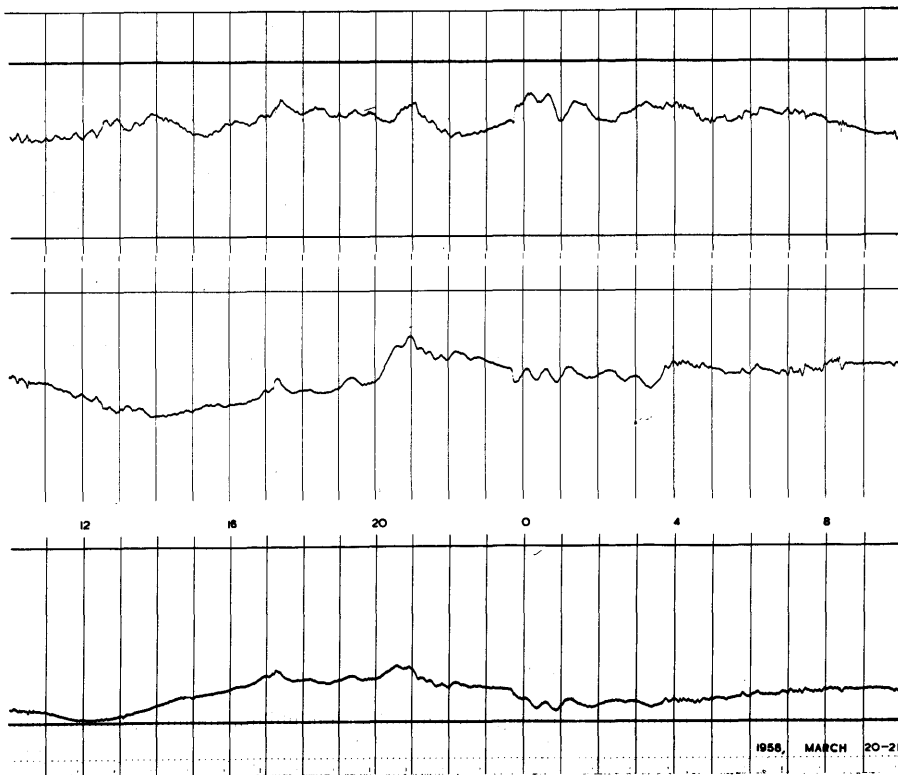


MARCH 18-19

1958

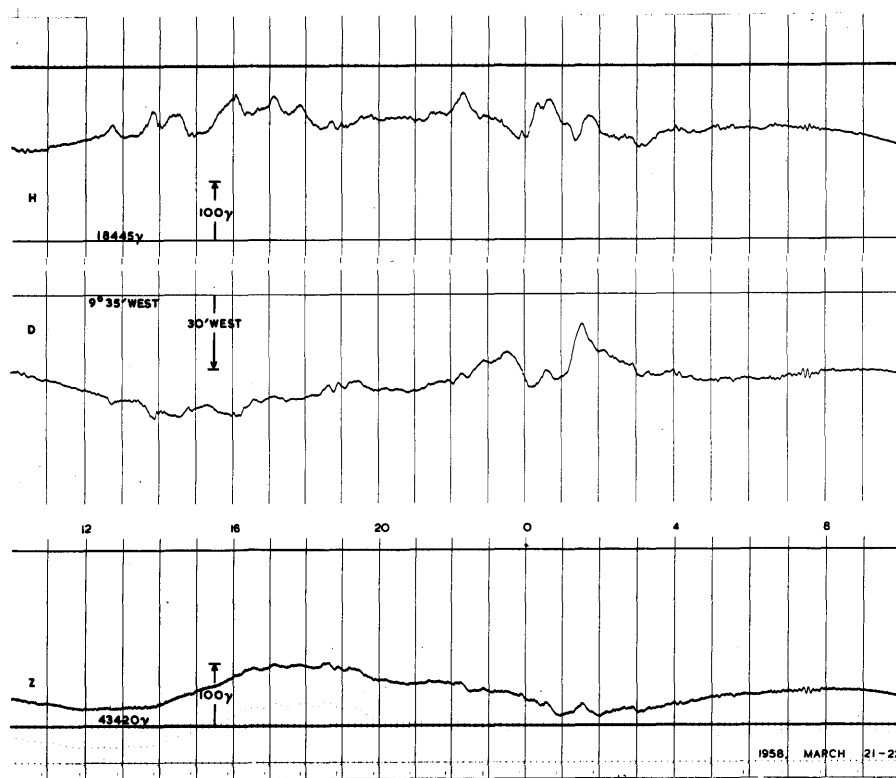


MARCH 19-20

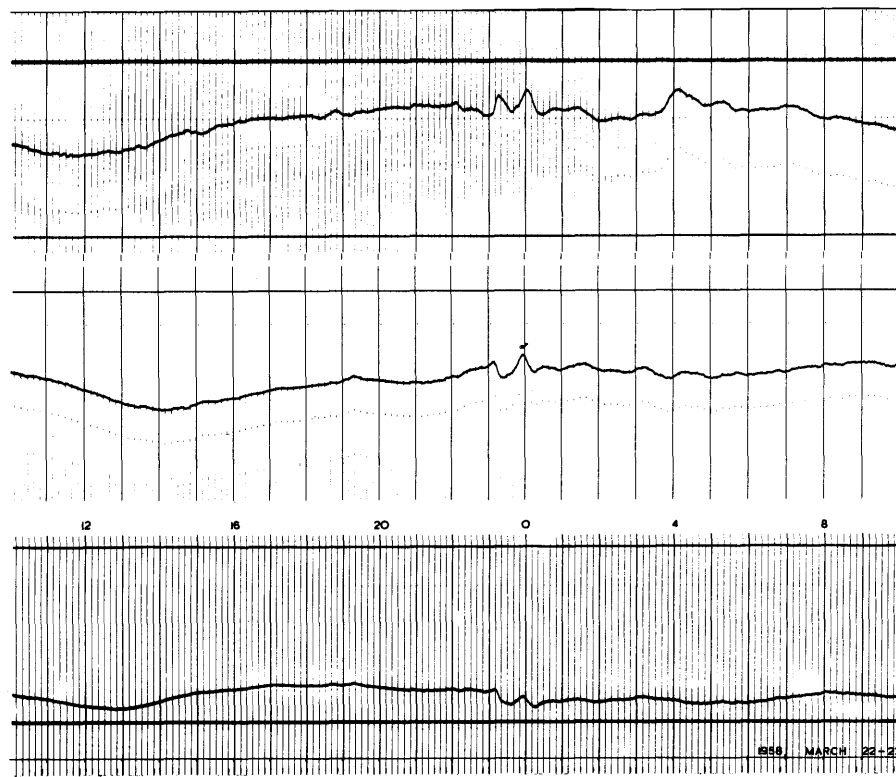


MARCH 20-21

1958

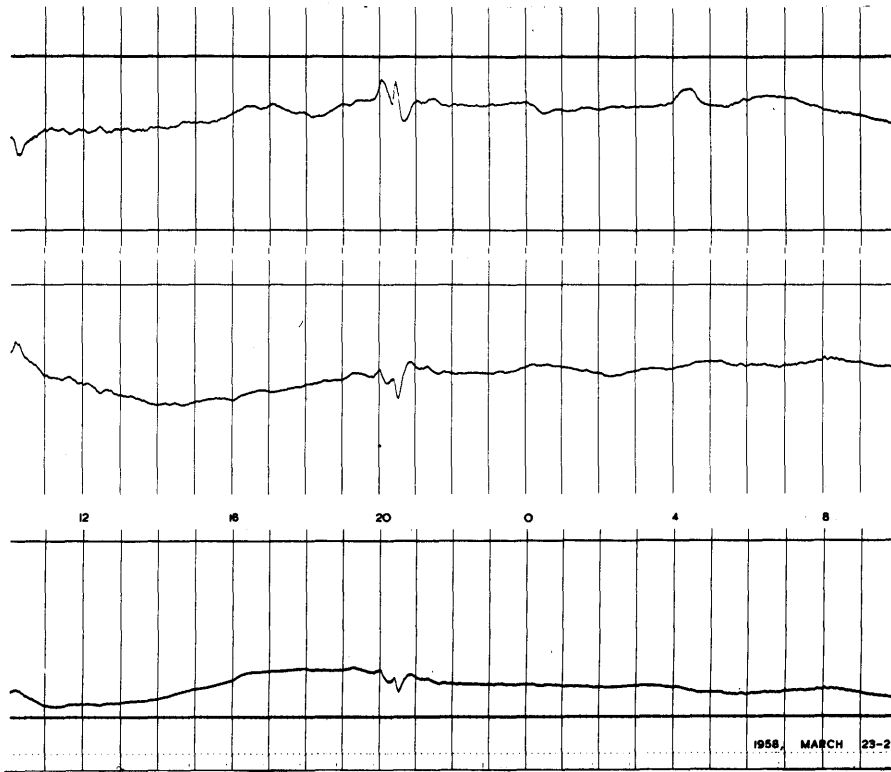


MARCH 21-22

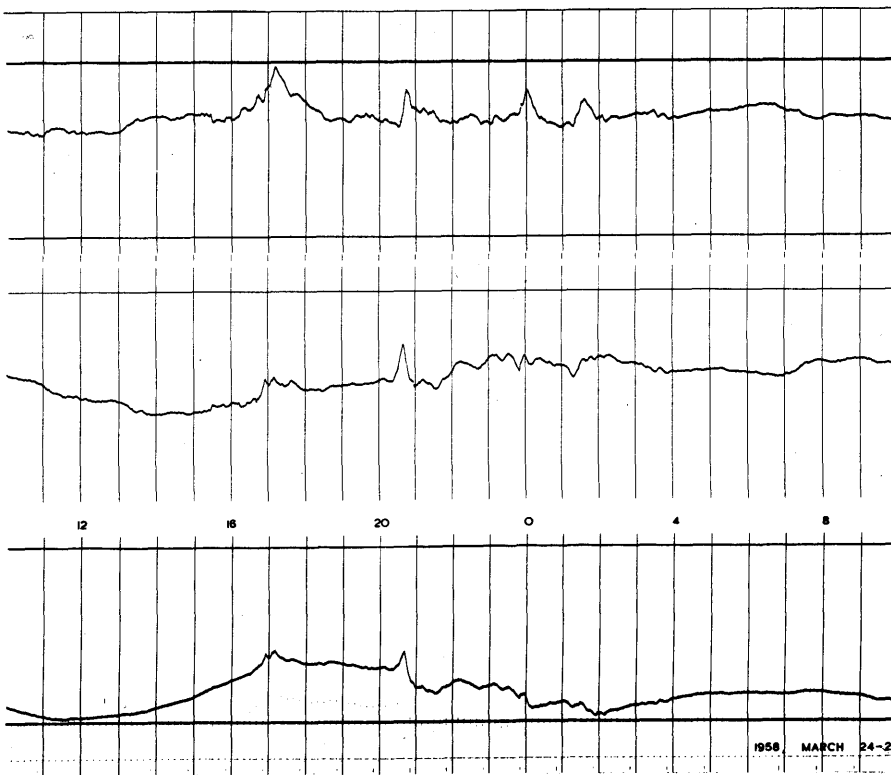


MARCH 22-23

1958

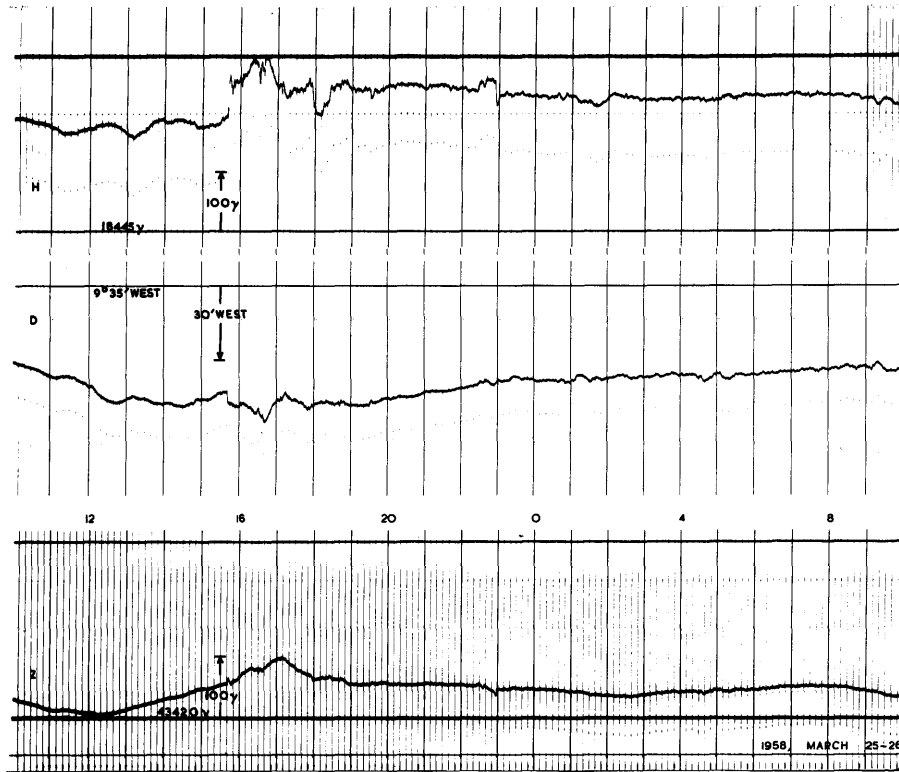


MARCH 23-24

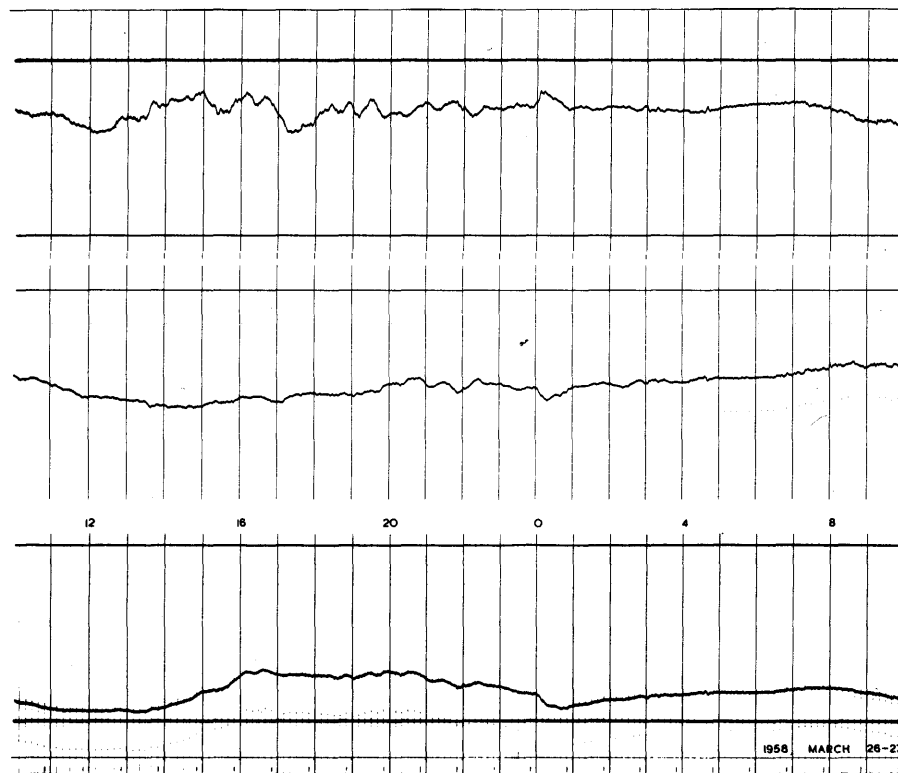


MARCH 24-25

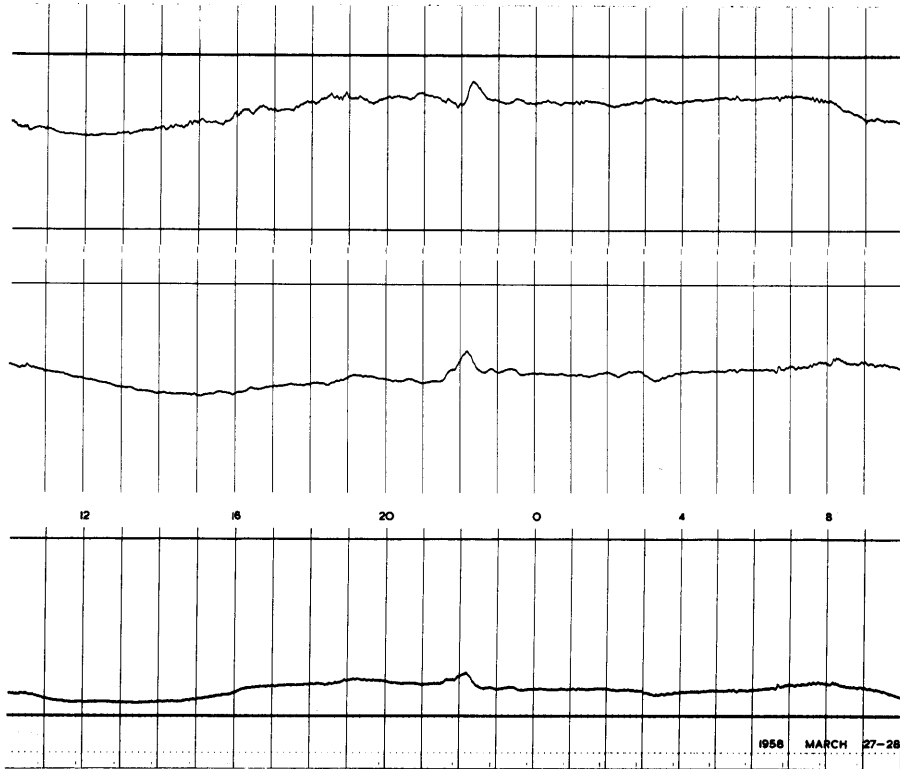
1958



MARCH 25-26

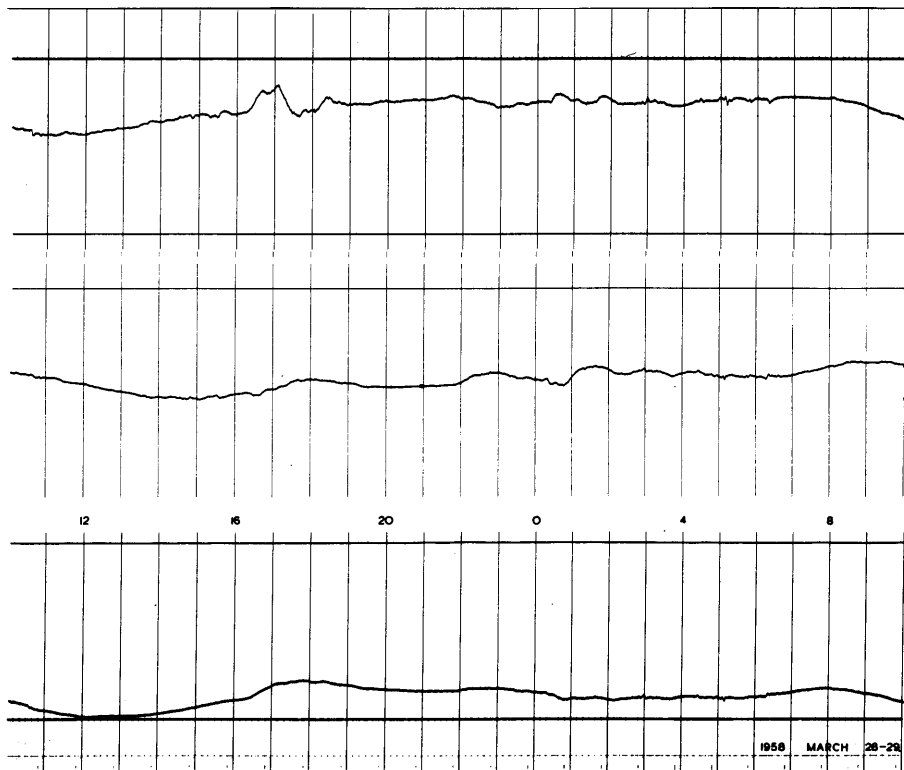


MARCH 26-27



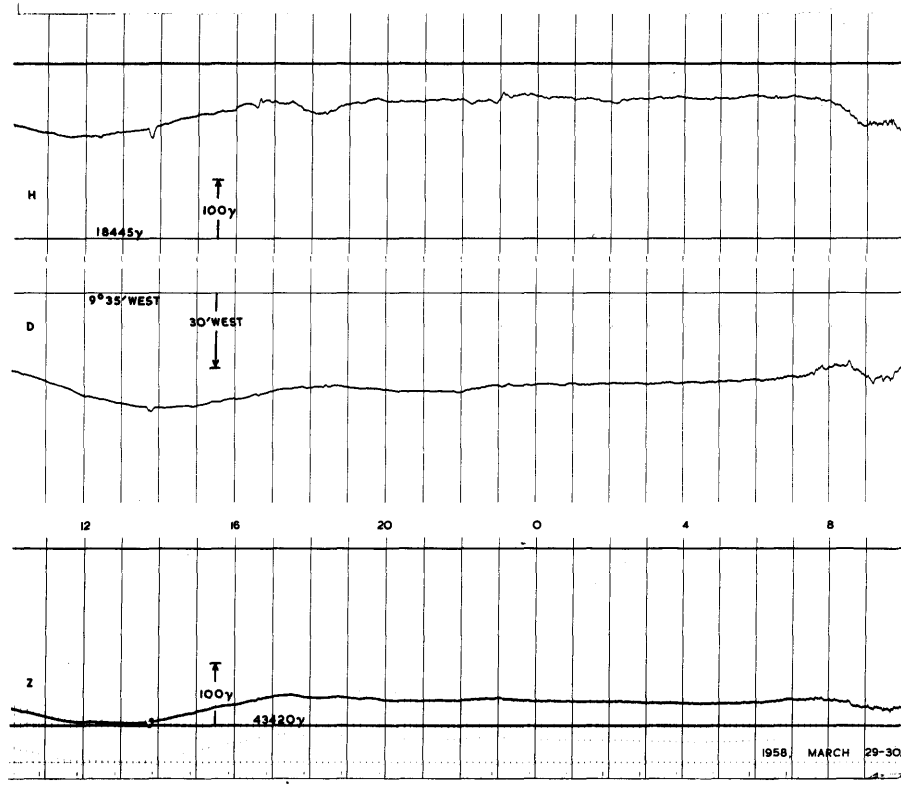
1958

MARCH 27-28

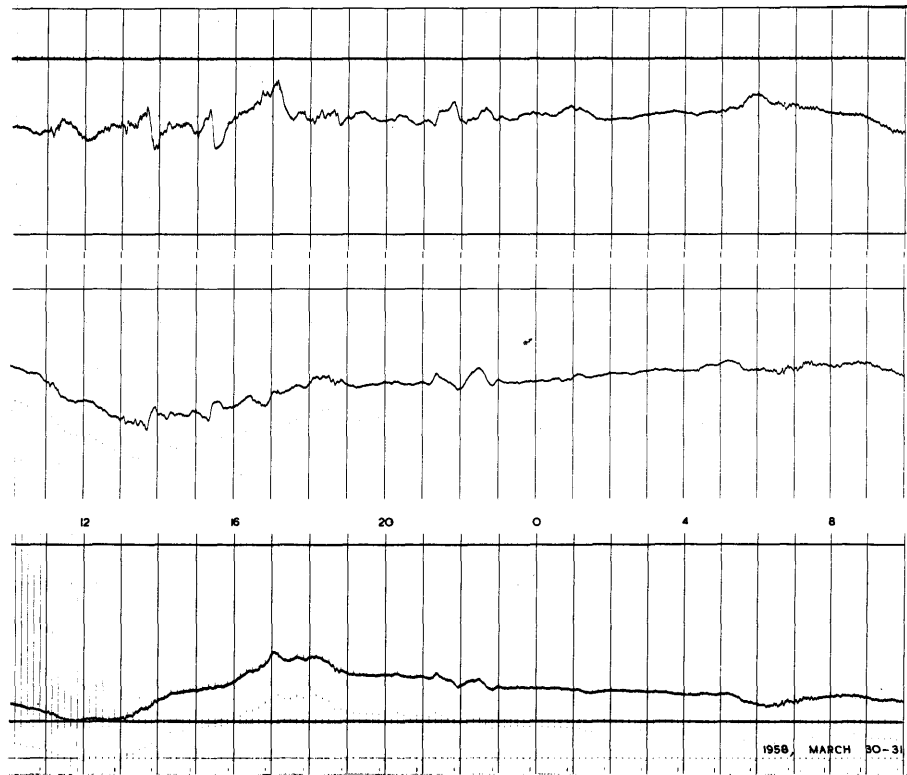


MARCH 28-29

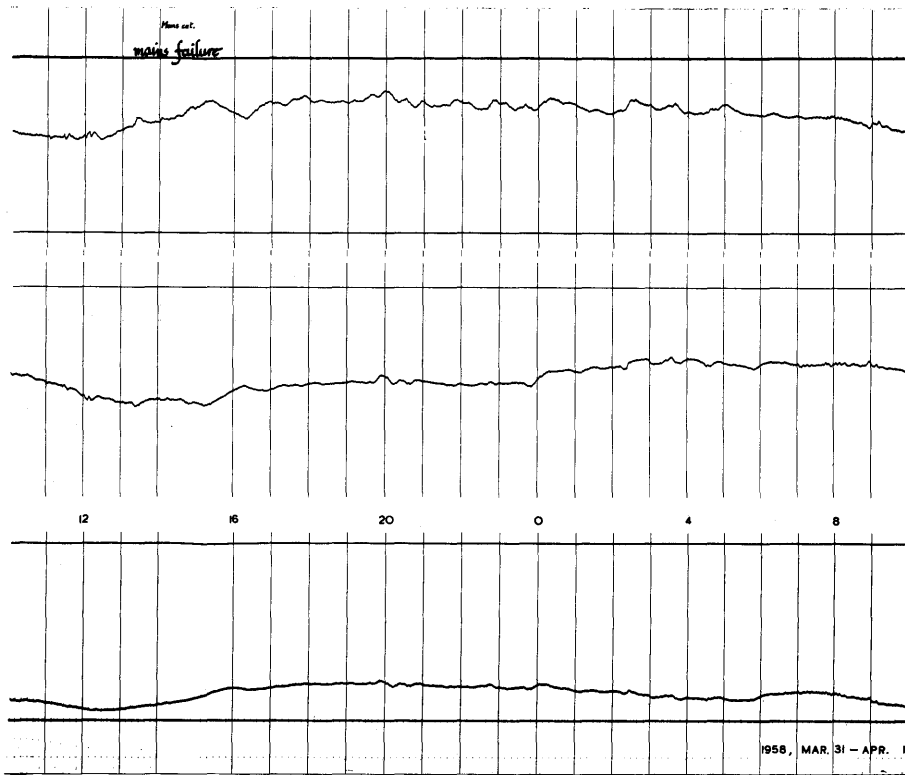
1958



MARCH 29-30

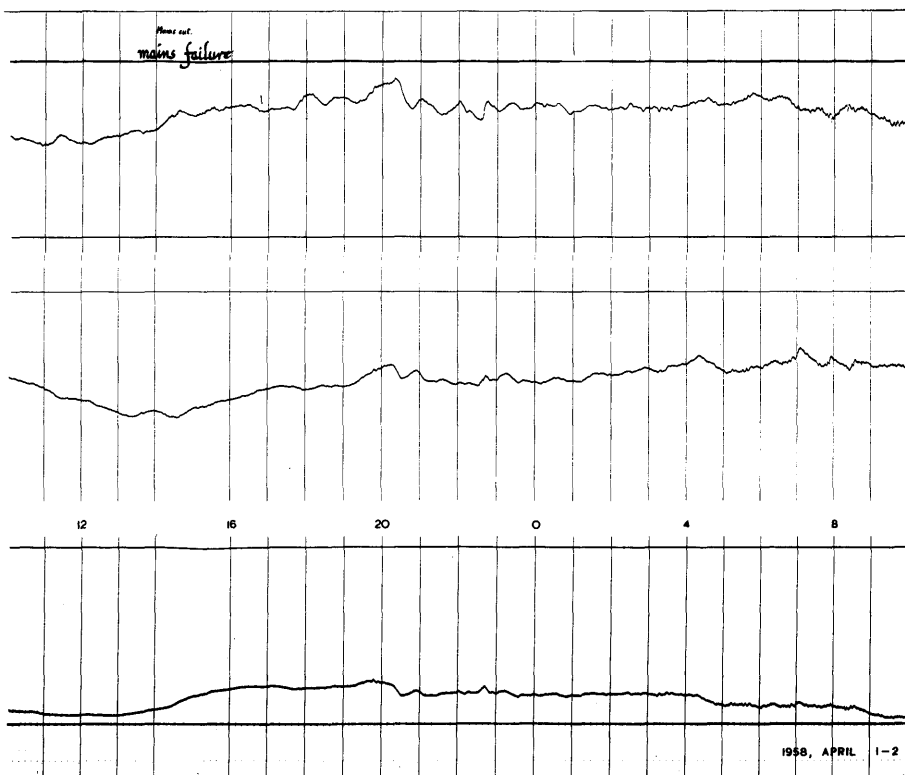


MARCH 30-31



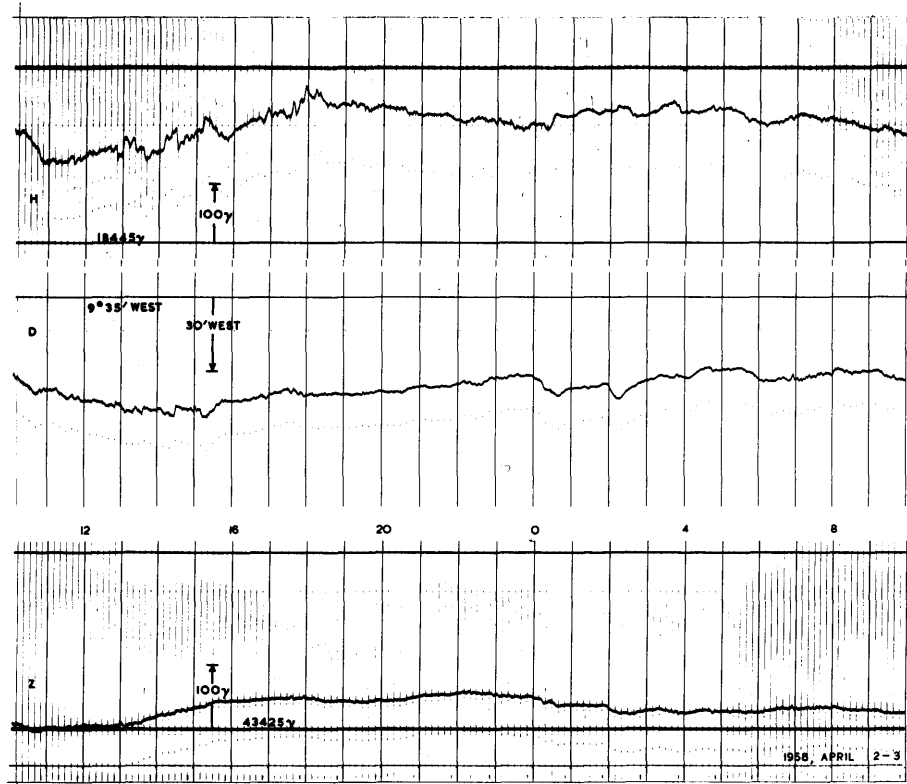
1958

MAR. 31-APR. 1

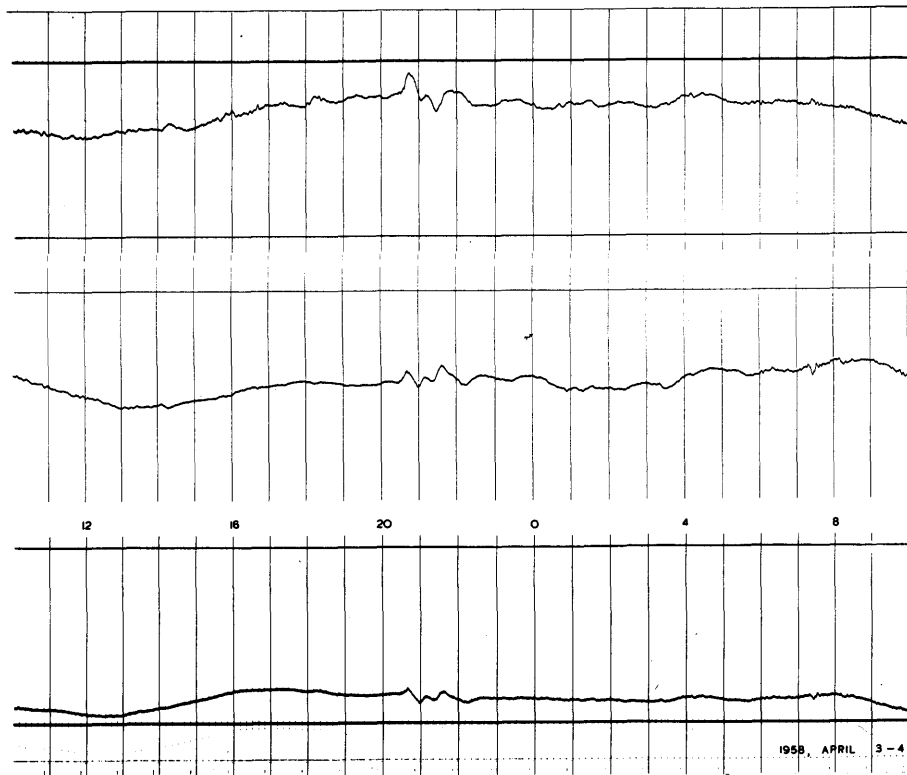


APRIL 1-2

1958

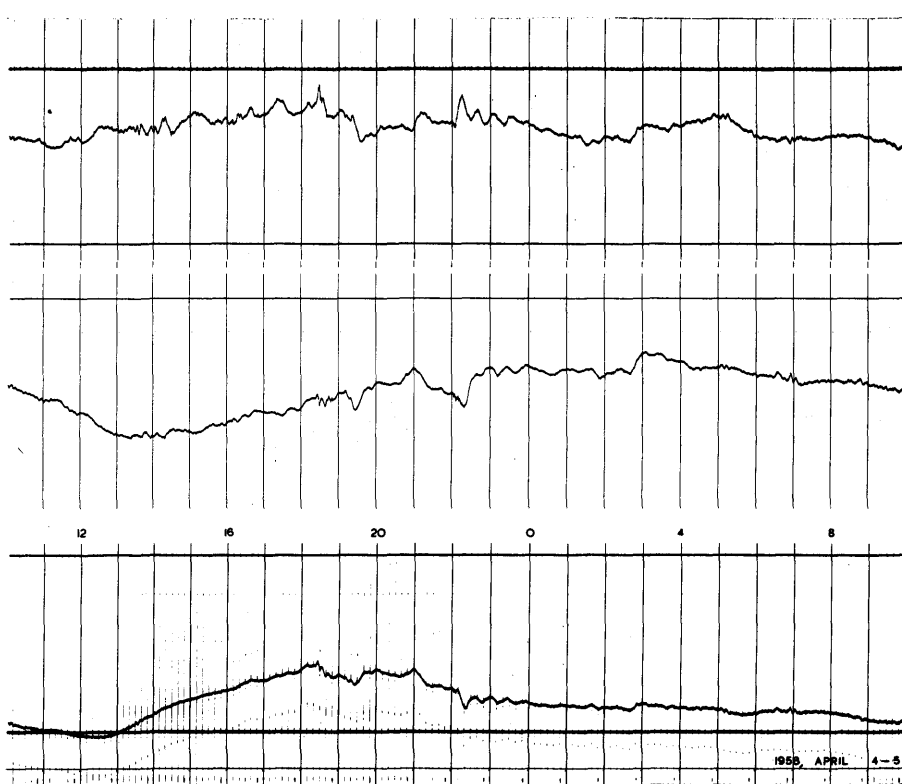


APRIL 2-3

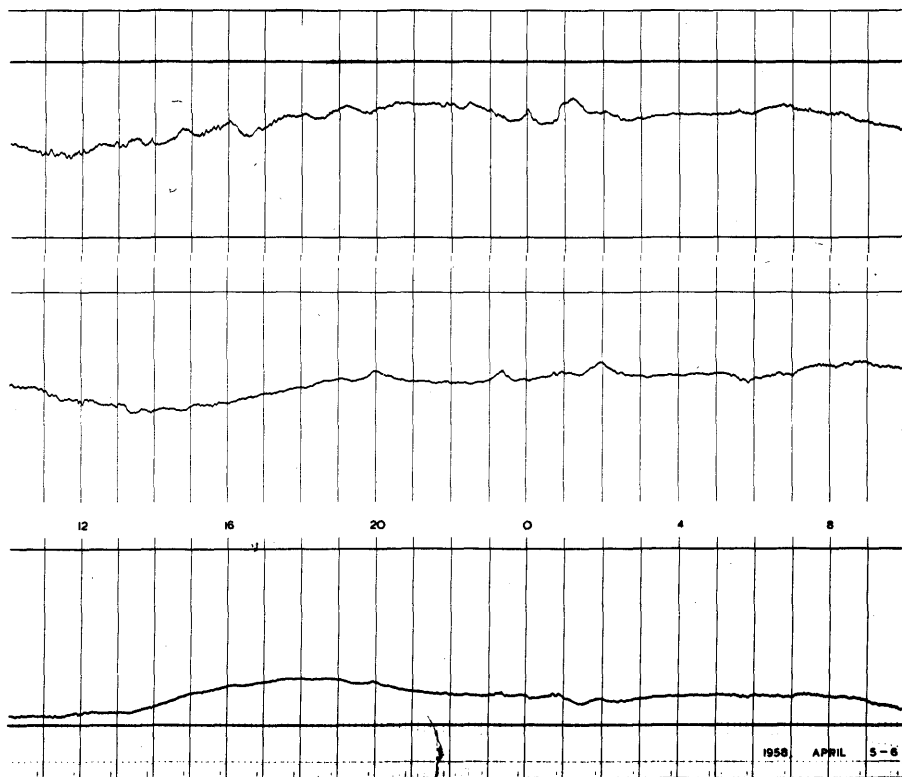


APRIL 3-4

1958

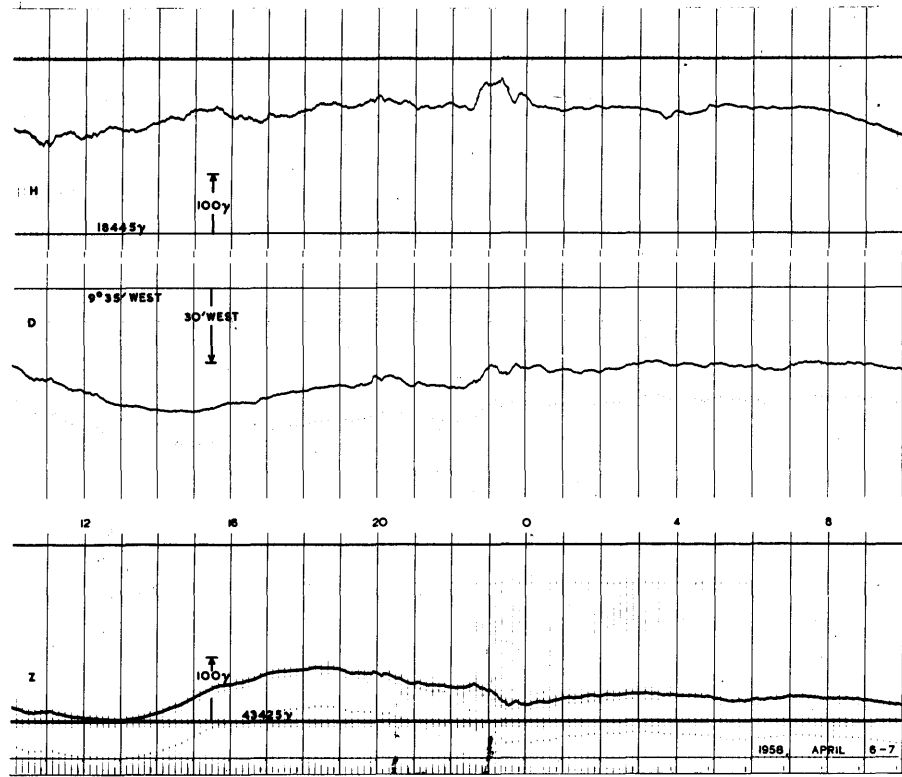


APRIL 4-5

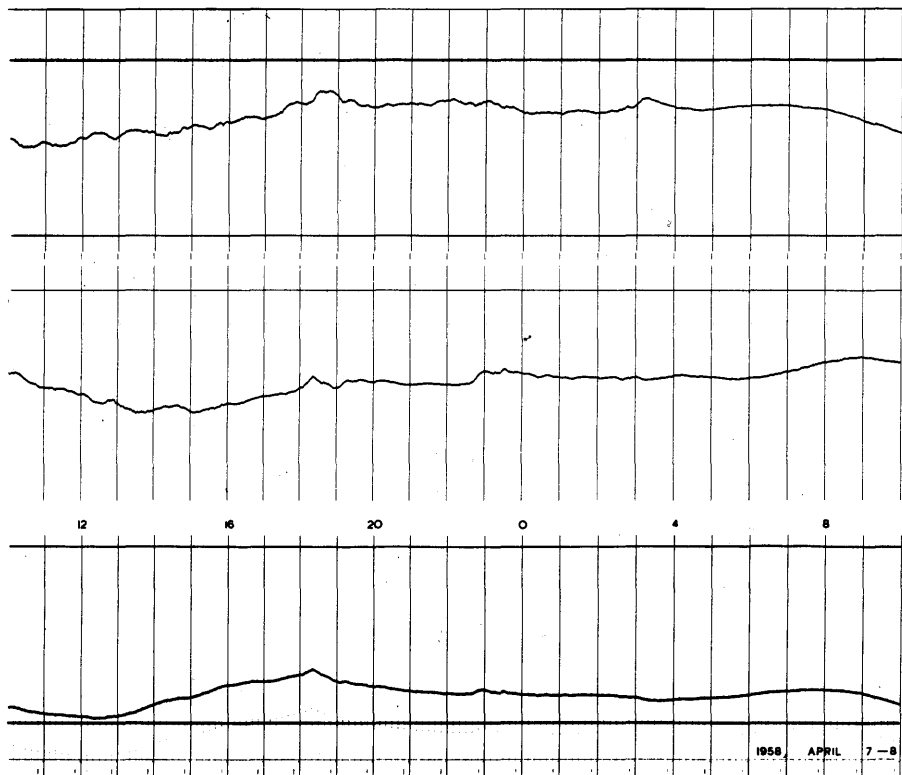


APRIL 5-6

1958

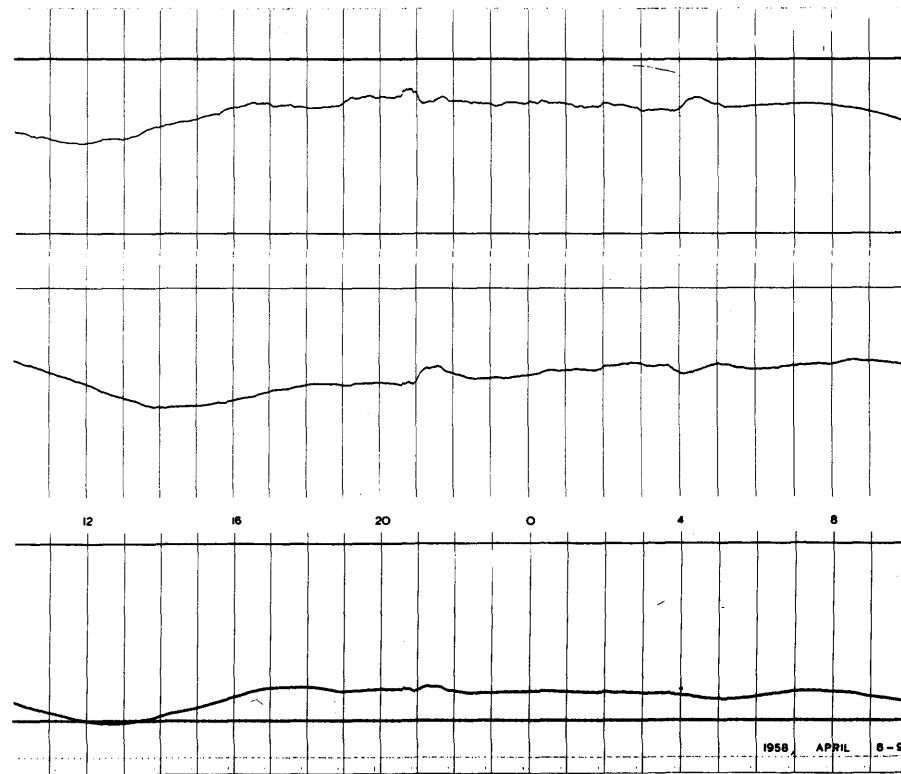


APRIL 6-7

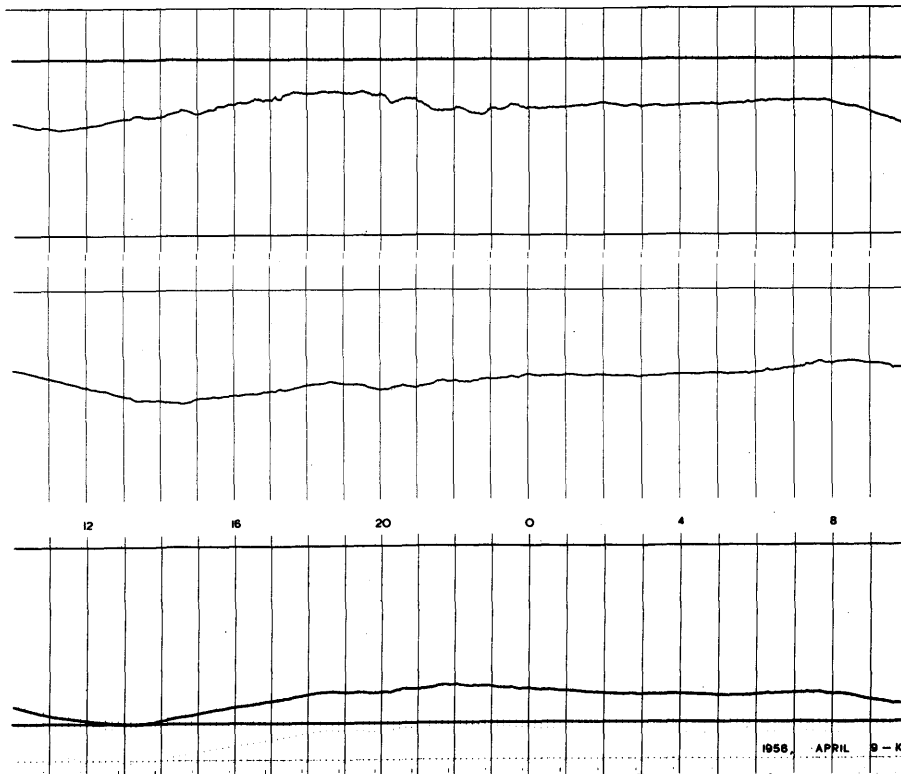


APRIL 7-8

1958

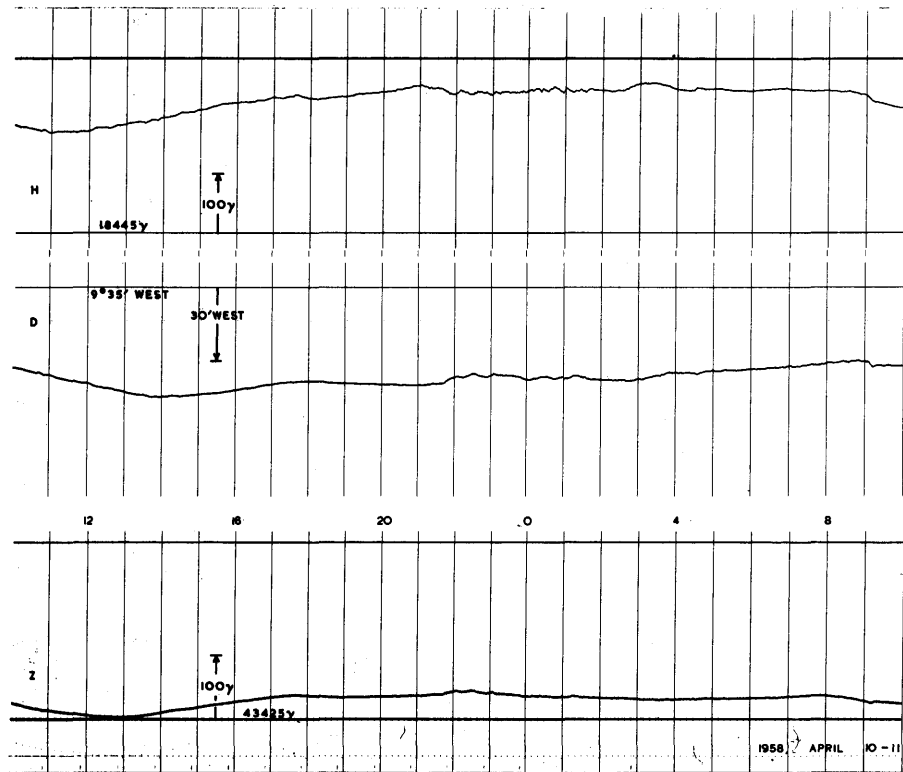


APRIL 8-9

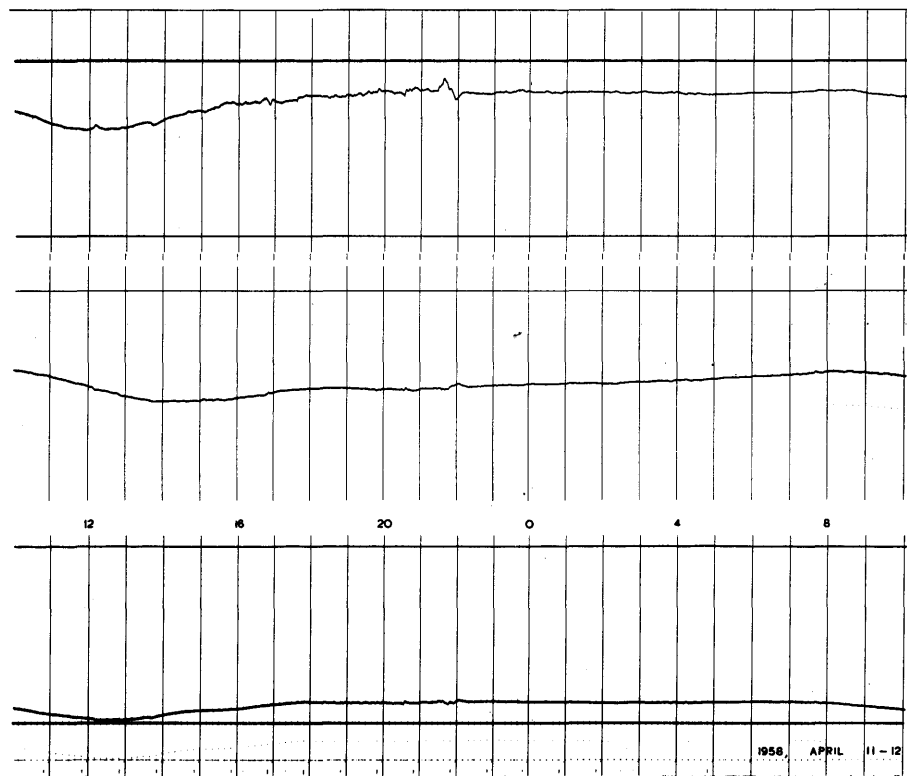


APRIL 9-10

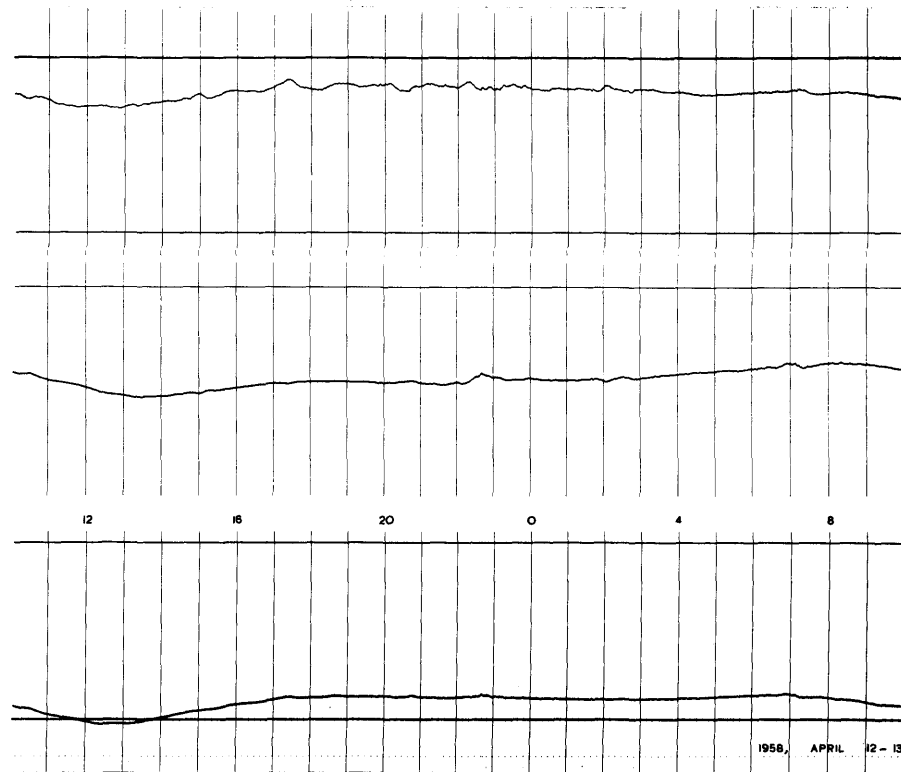
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APRIL 10-11

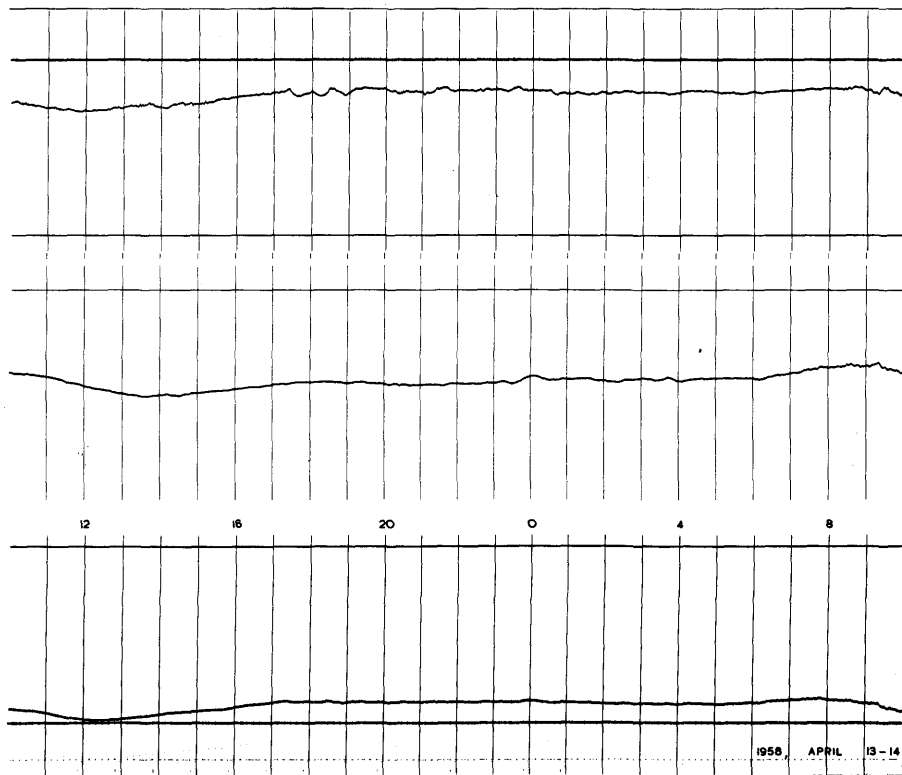


APRIL 11-12



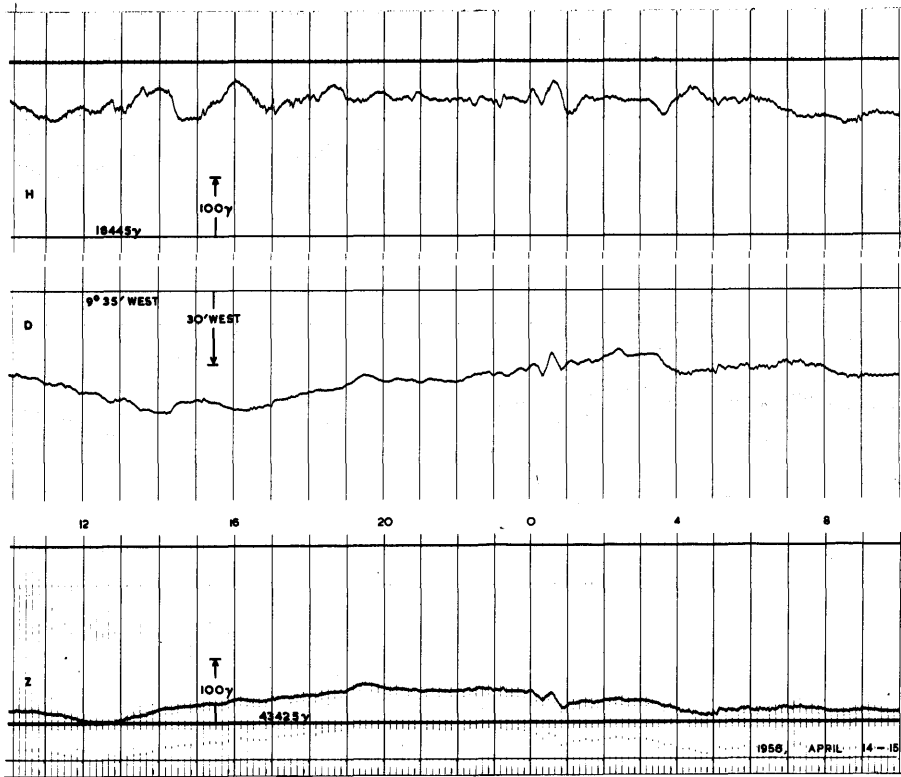
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APRIL 12-13

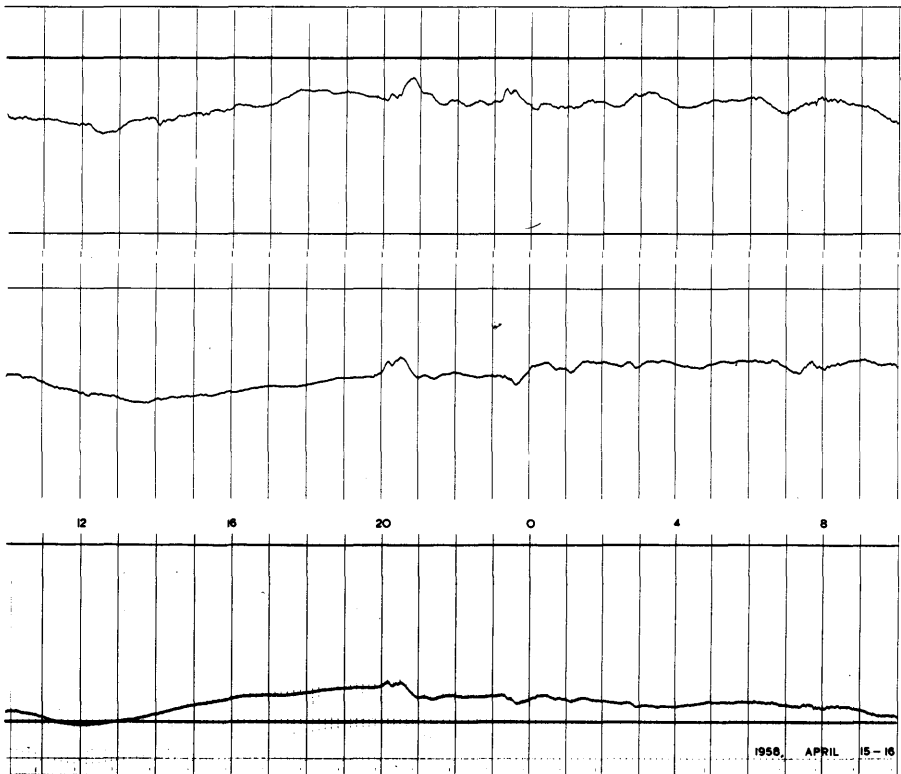


APRIL 13-14

1958

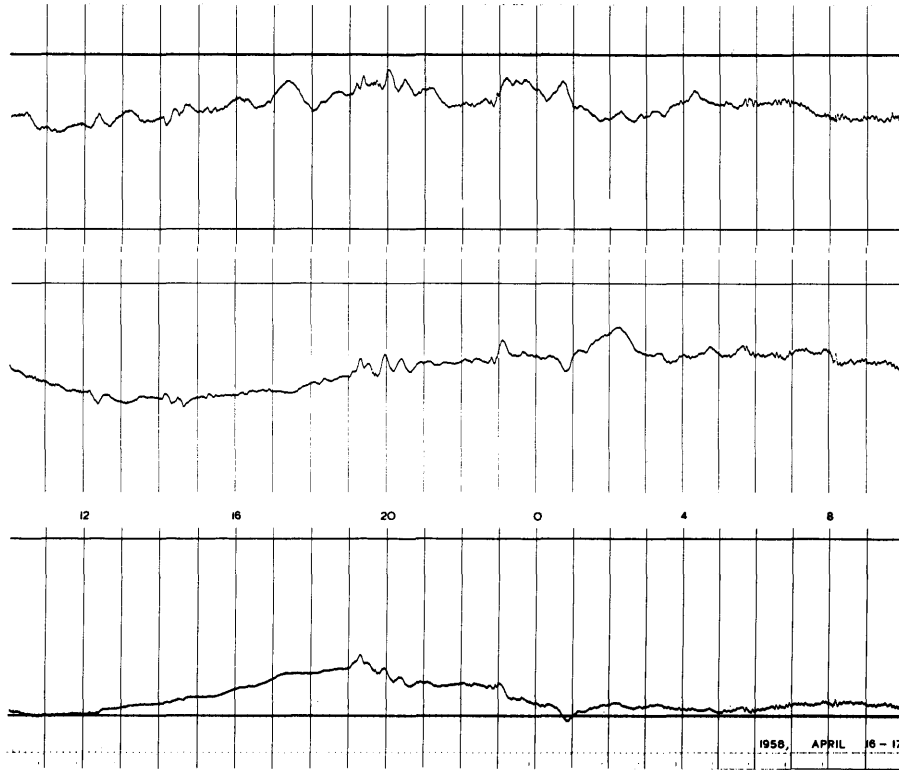


APRIL 14-15

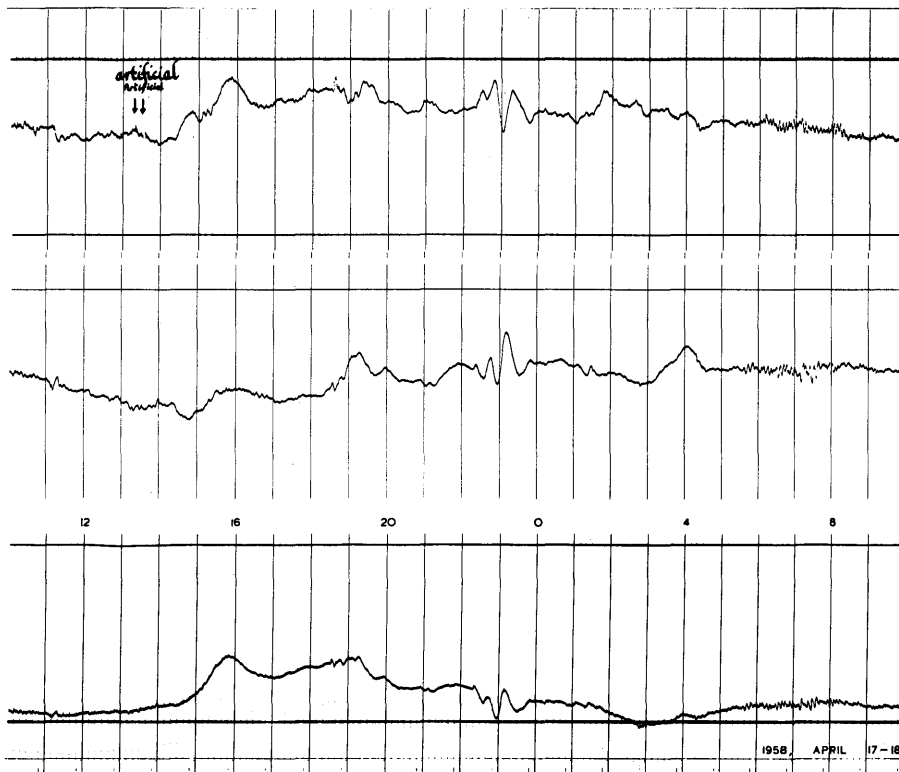


APRIL 15-16

1958



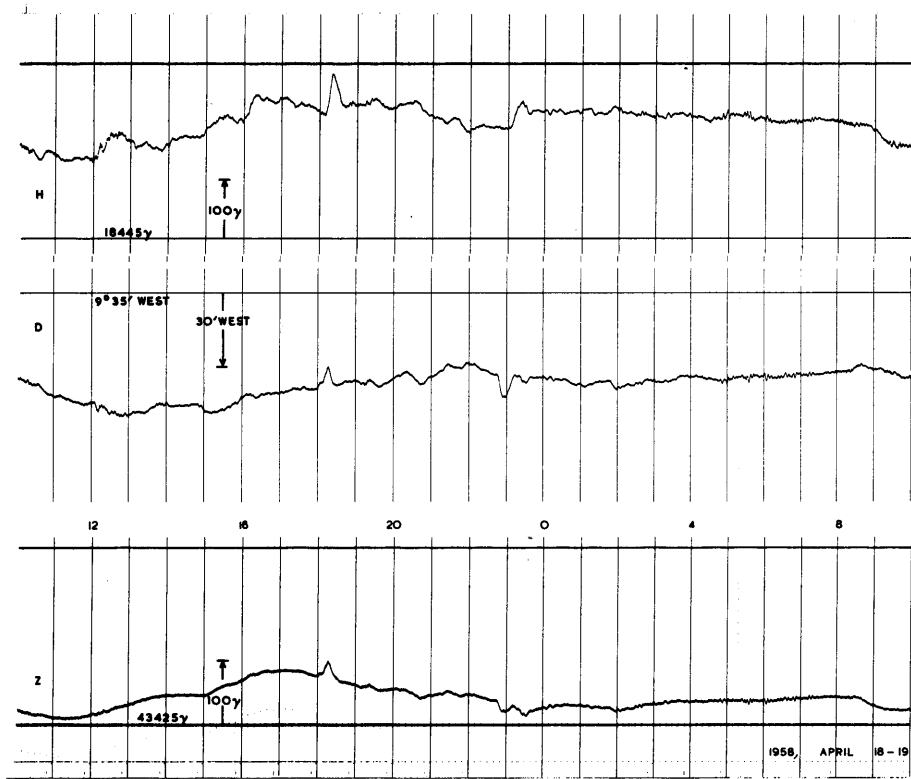
APRIL 16-17



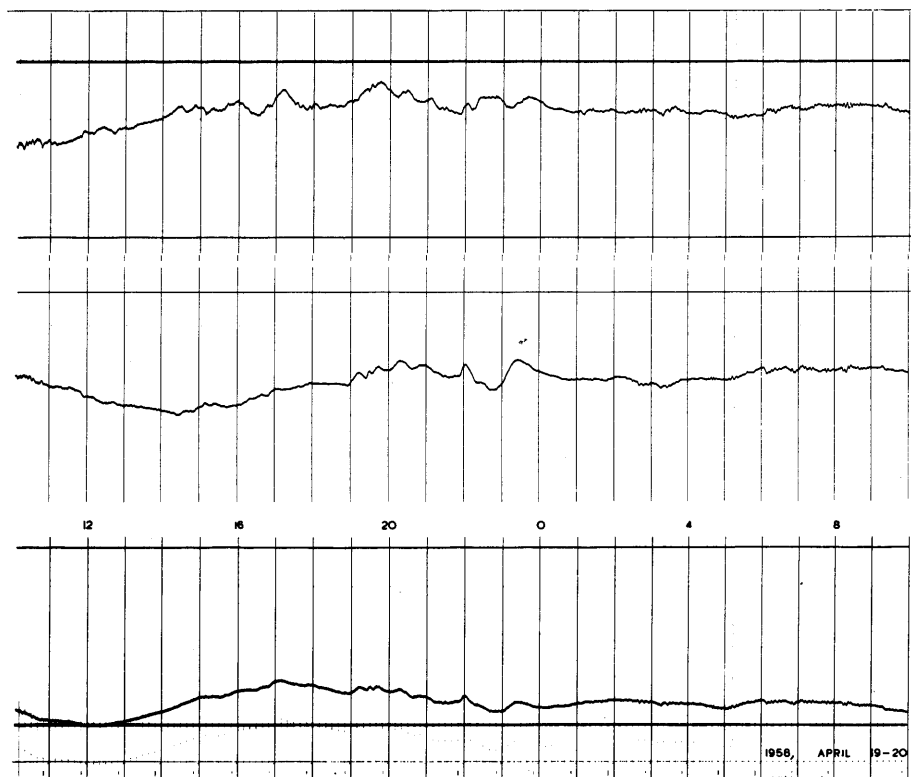
APRIL 17-18

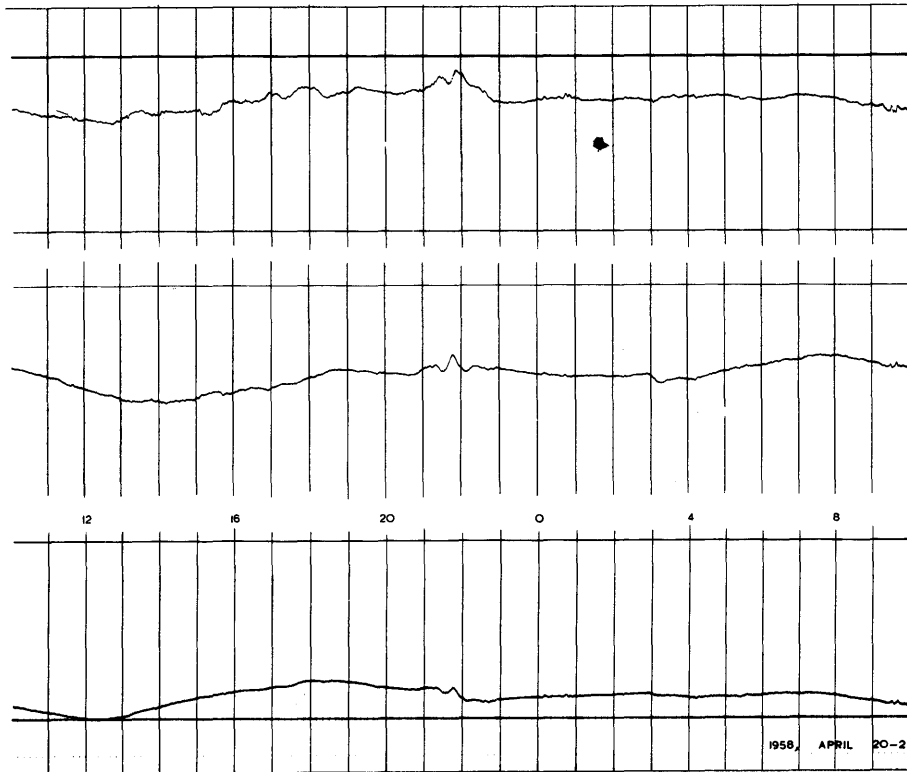
1958

APRIL 18-19



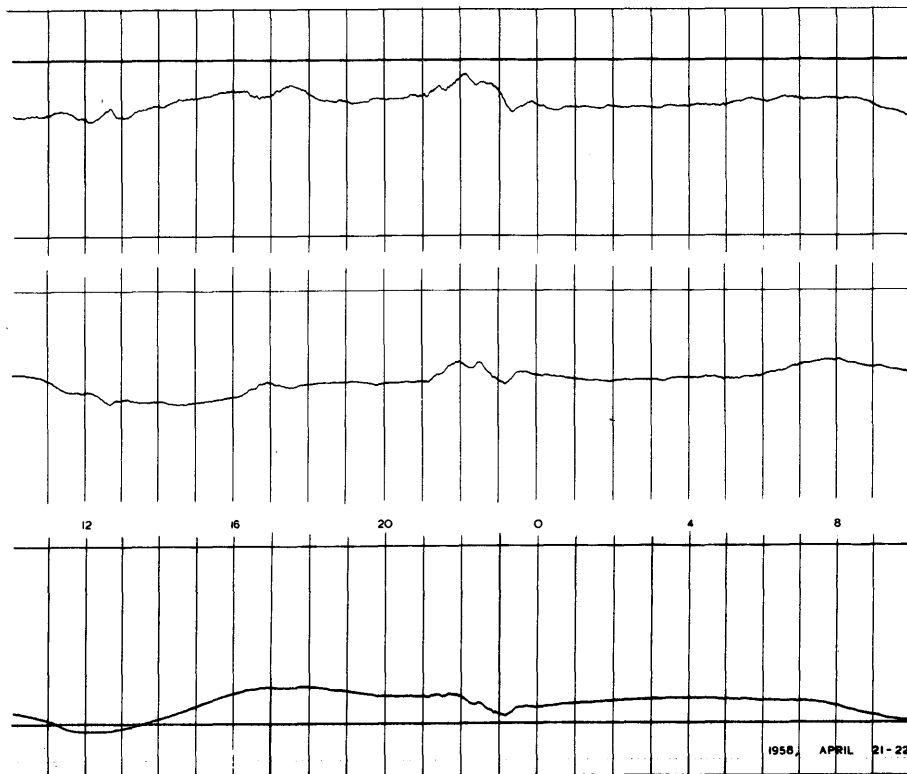
APRIL 19-20





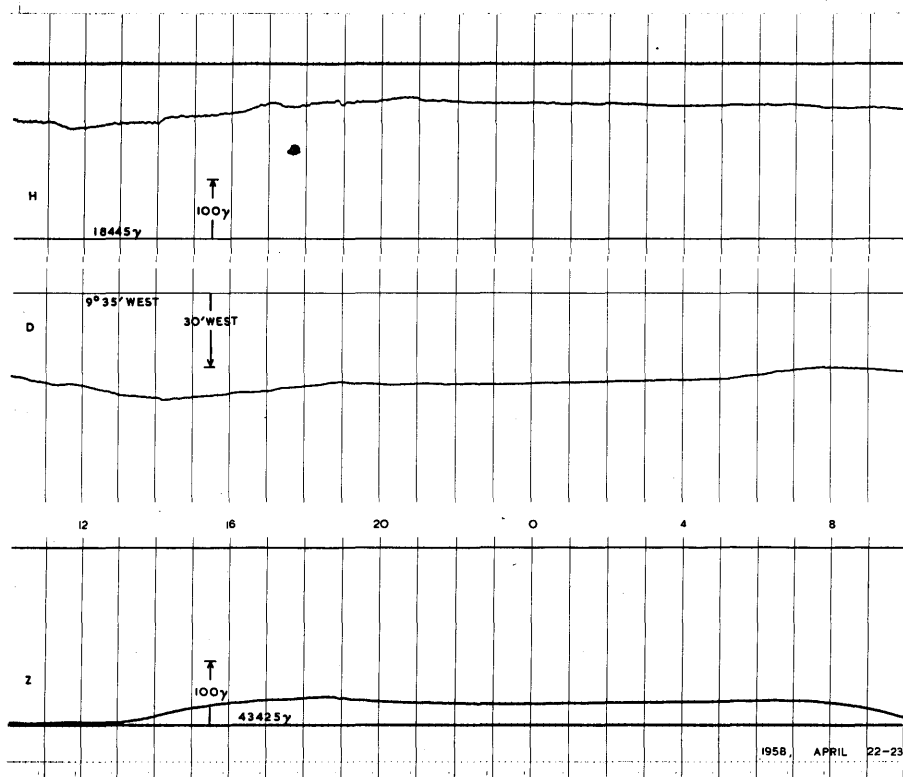
1958

APRIL 20-21

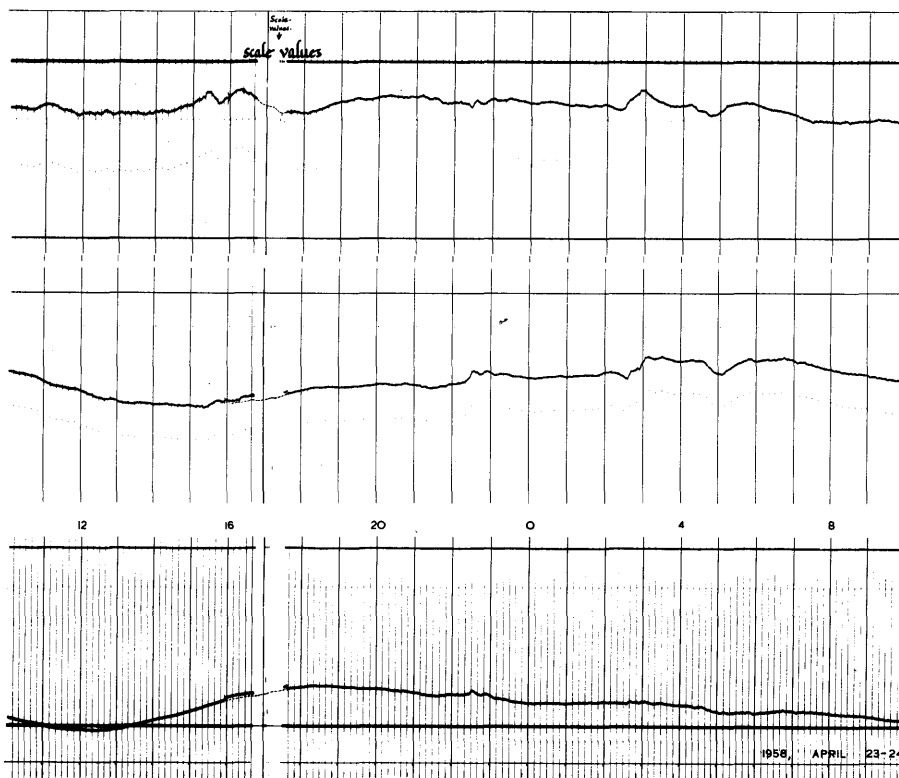


APRIL 21-22

1958

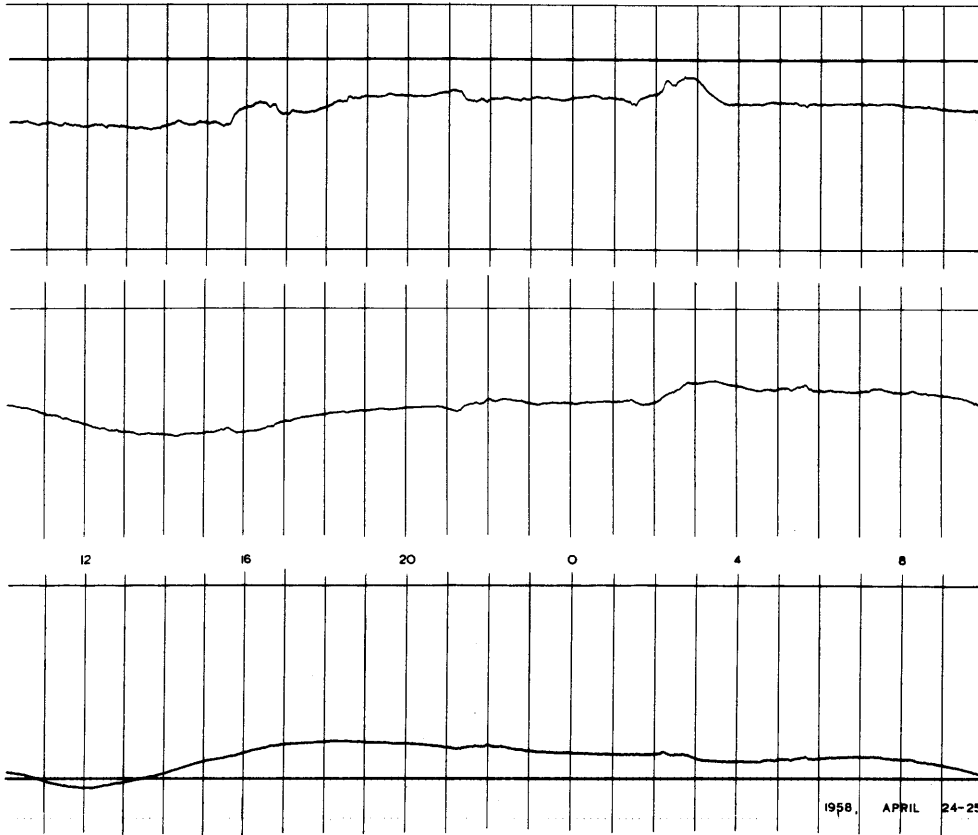


APRIL 22-23

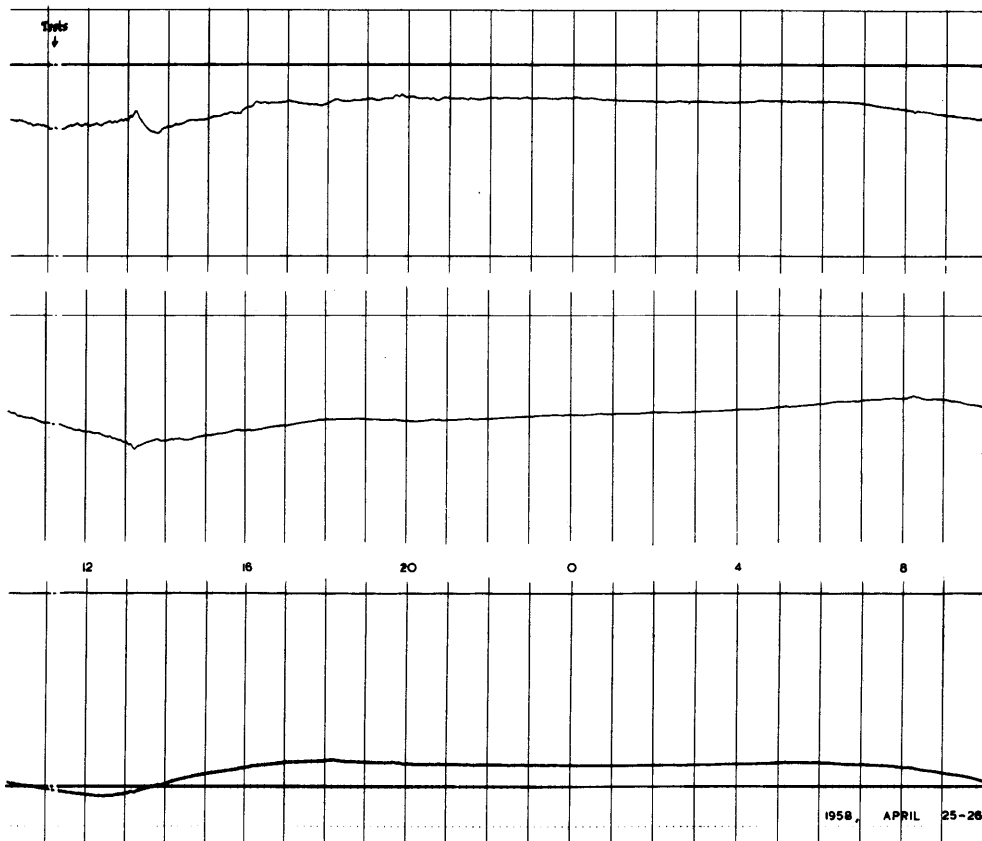


APRIL 23-24

1958

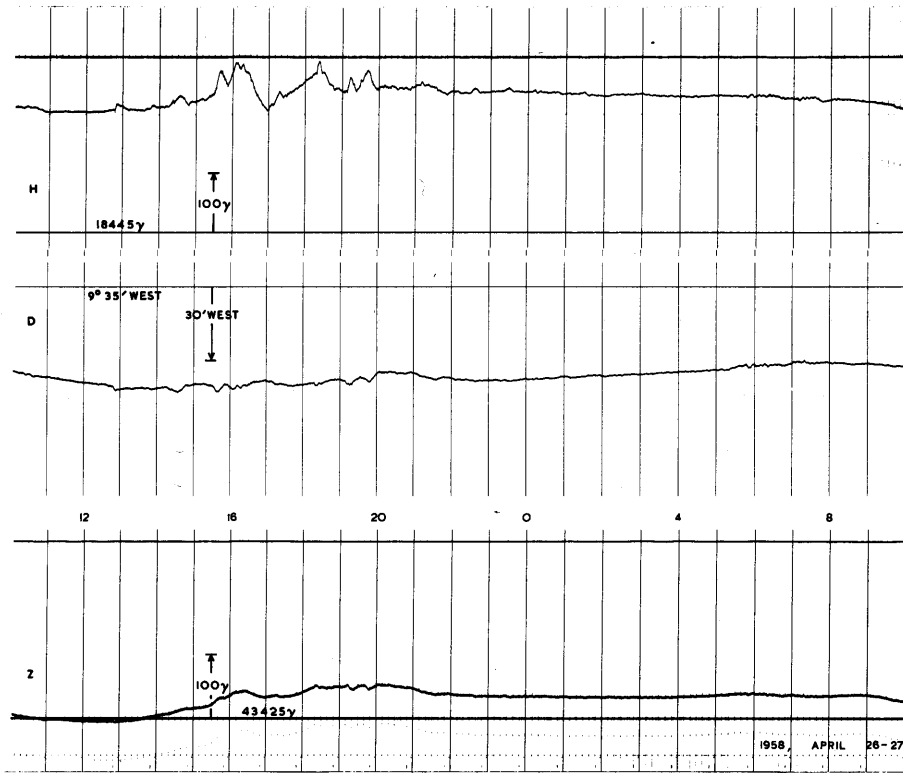


APRIL 24-25

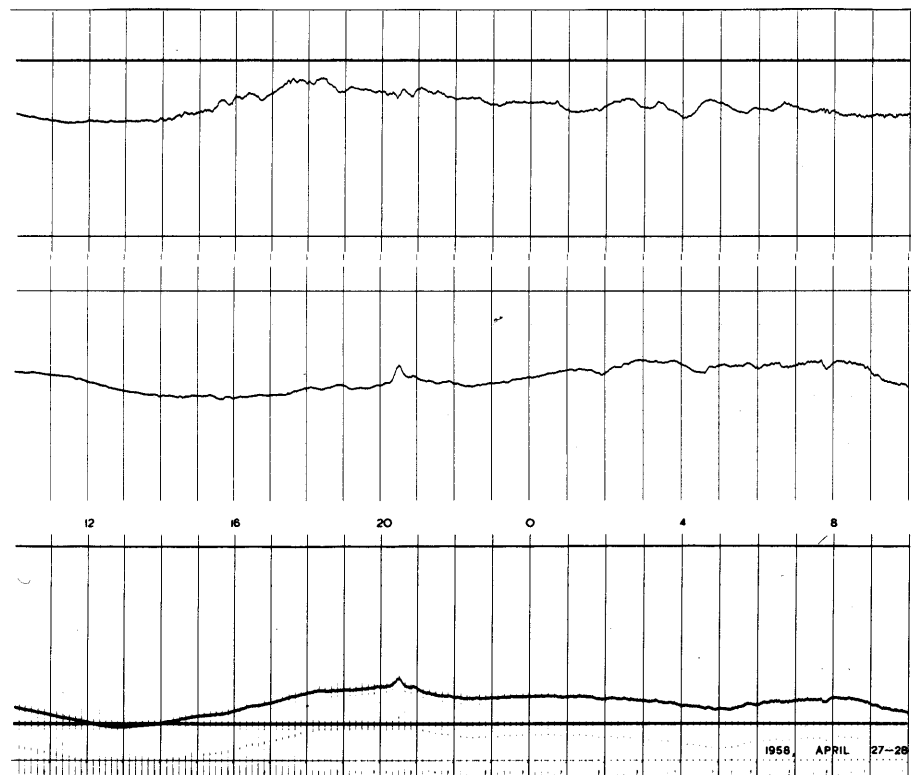


APRIL 25-26

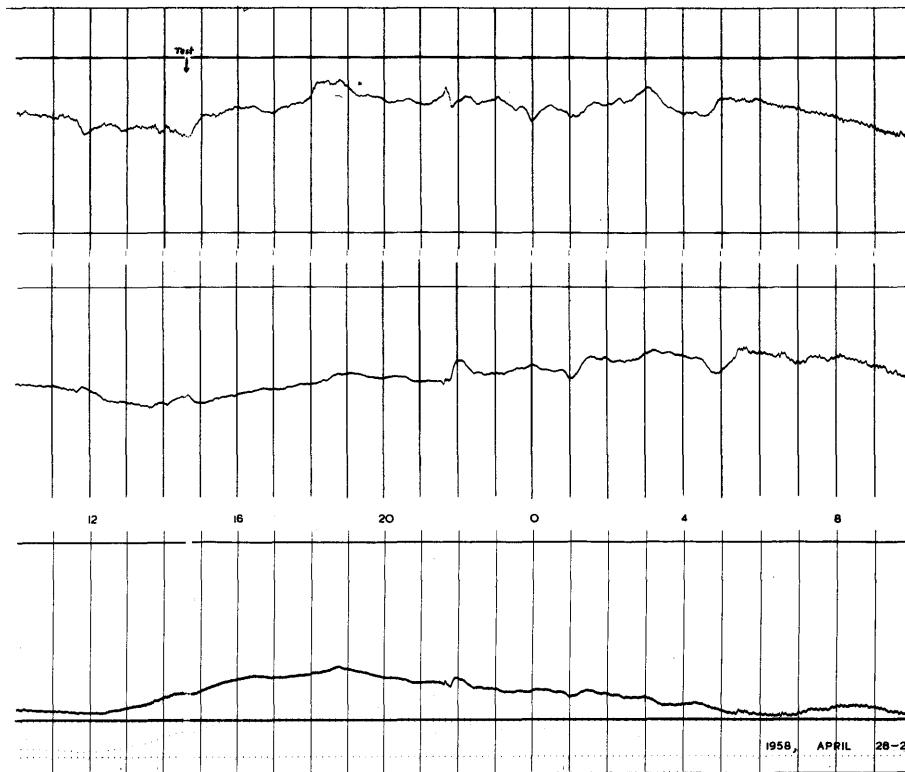
1958



APRIL 26-27

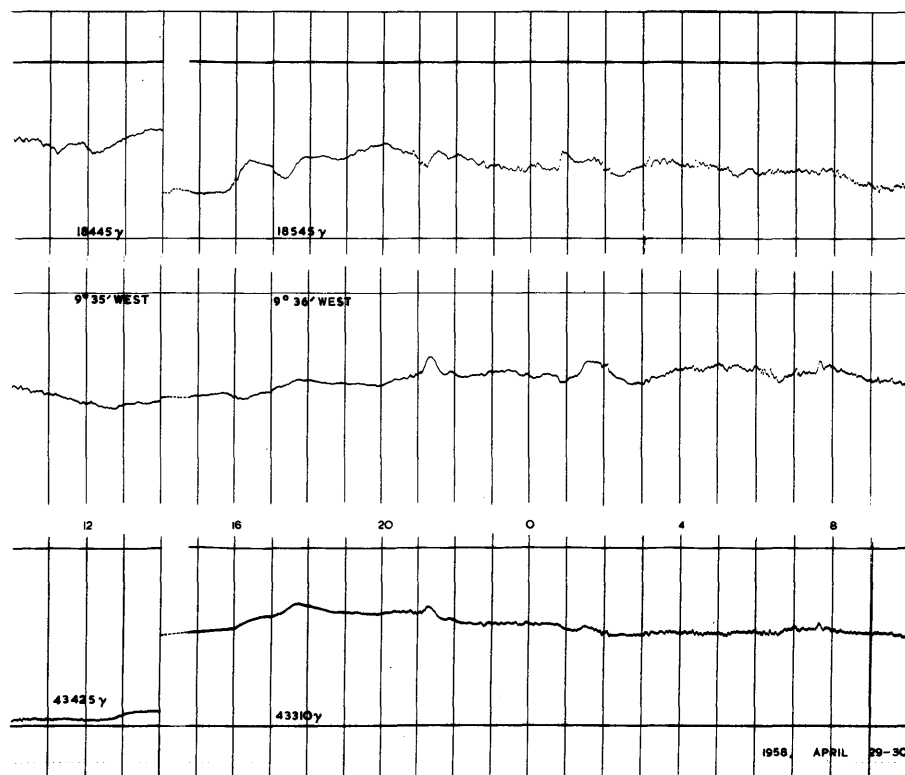


APRIL 27-28



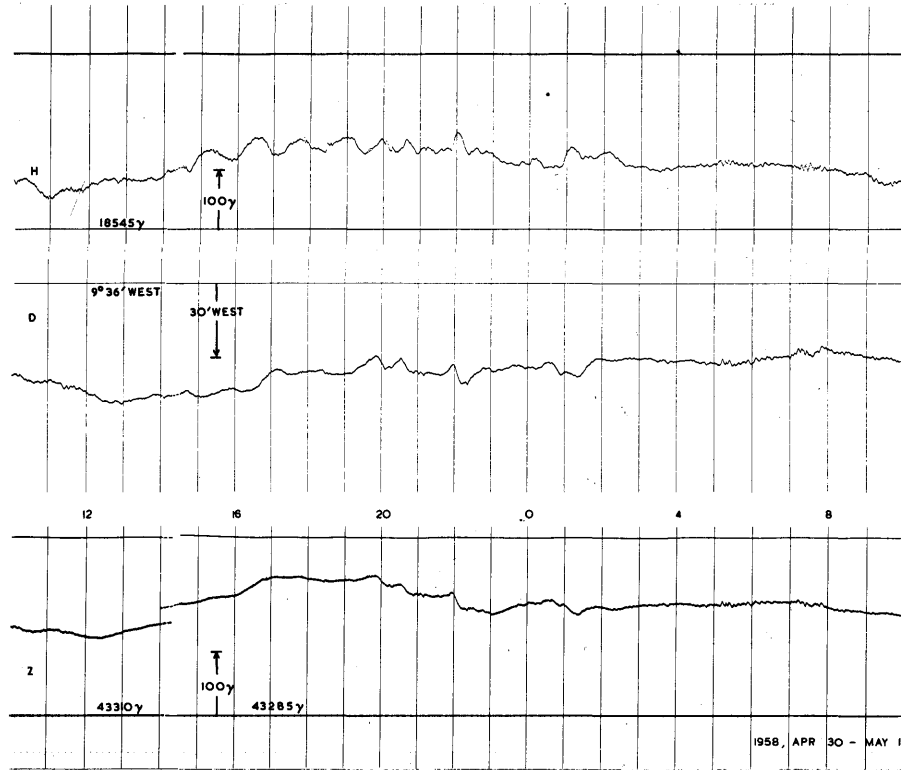
1958

APRIL 28-29

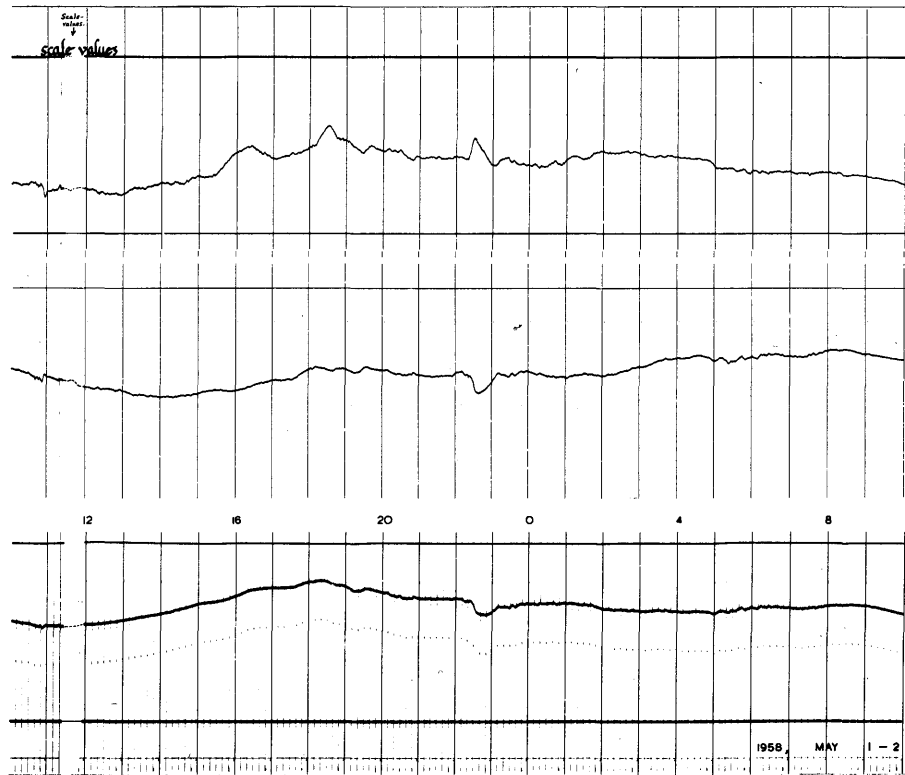


APRIL 29-30

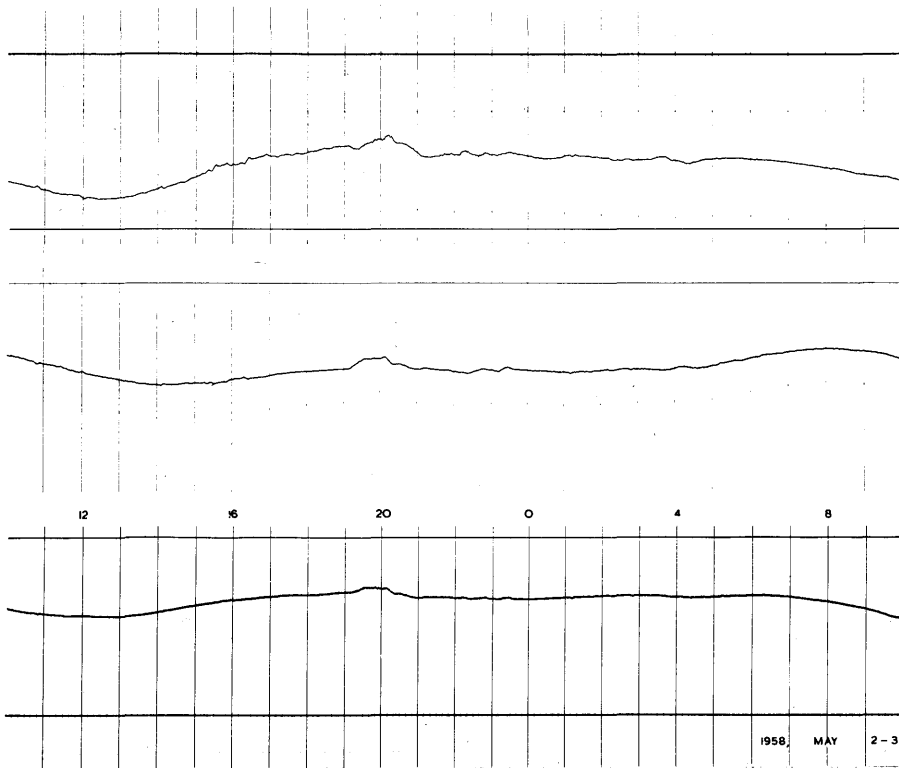
1958



APR. 30-MAY 1

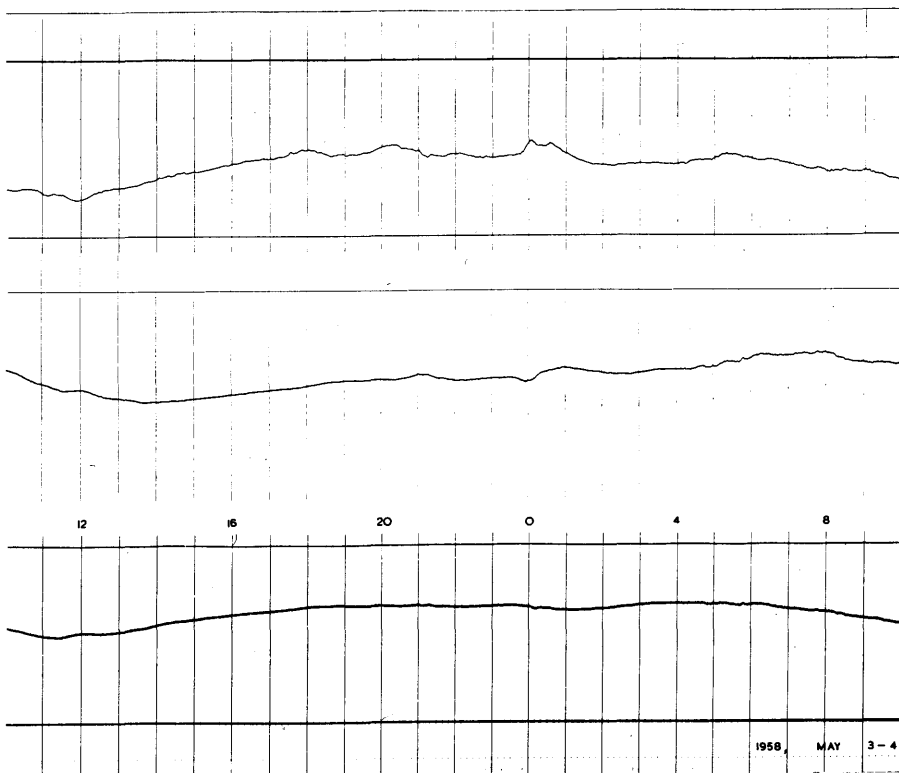


MAY 1-2



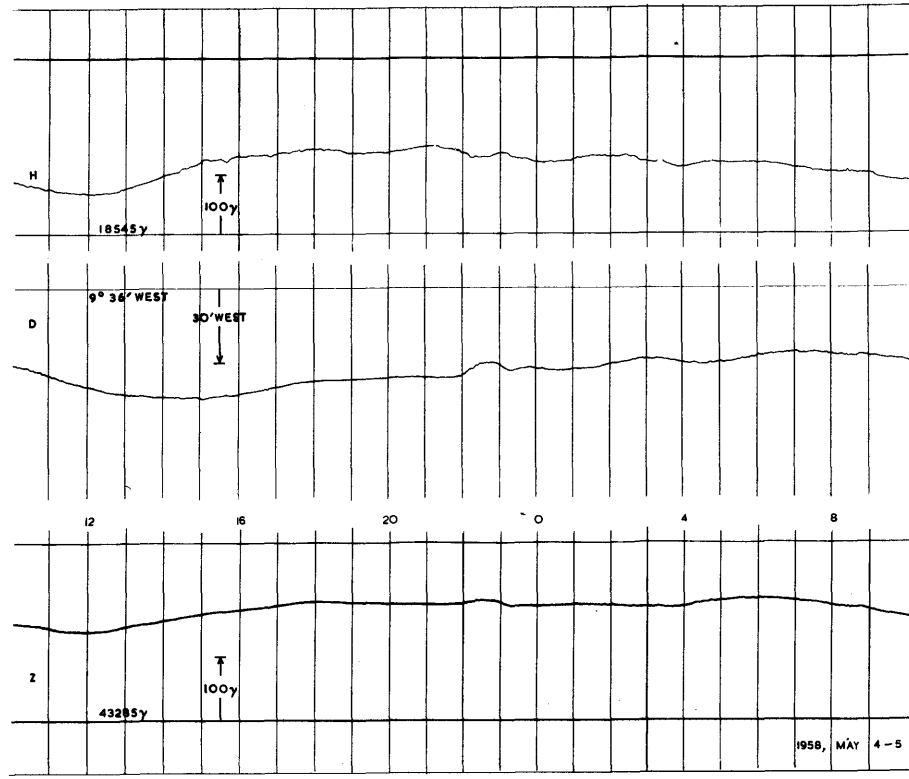
1958

MAY 2-3

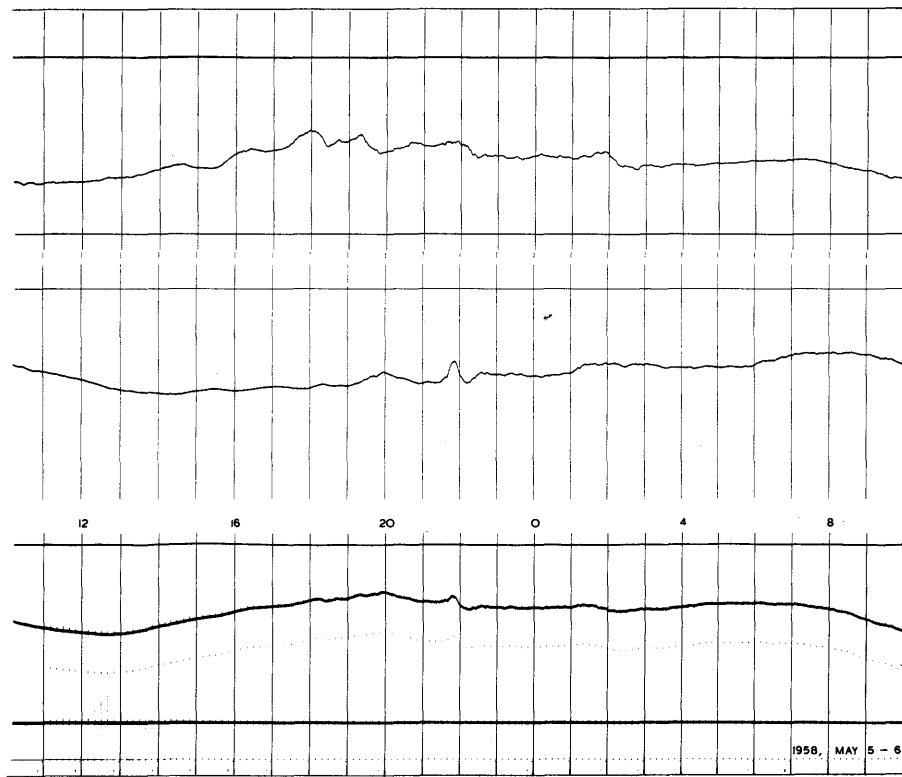


MAY 3-4

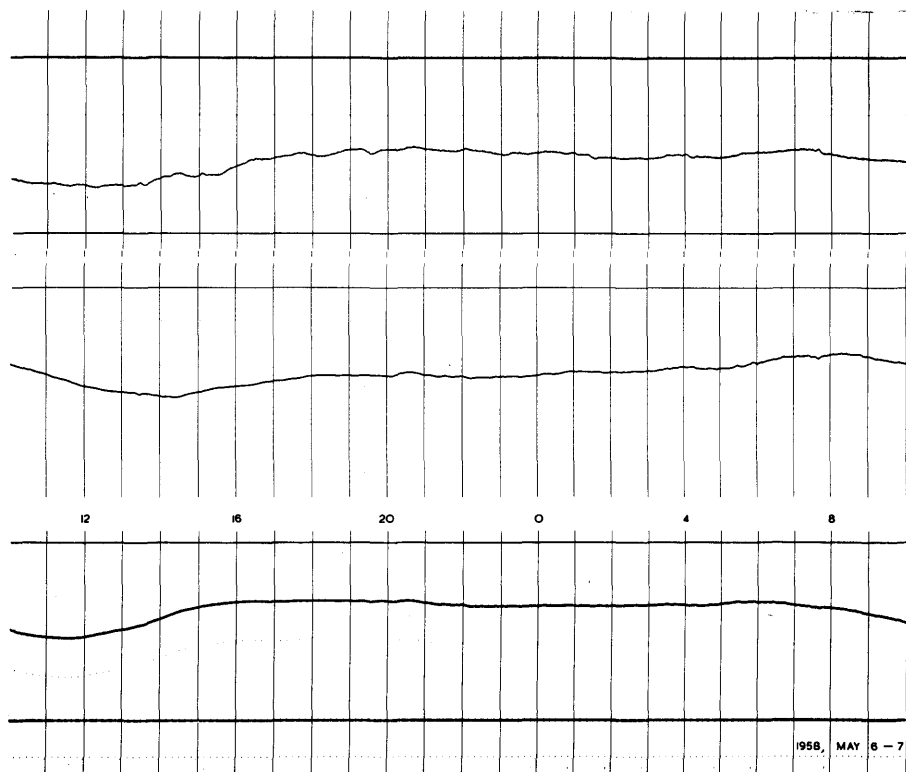
1958



MAY 4-5

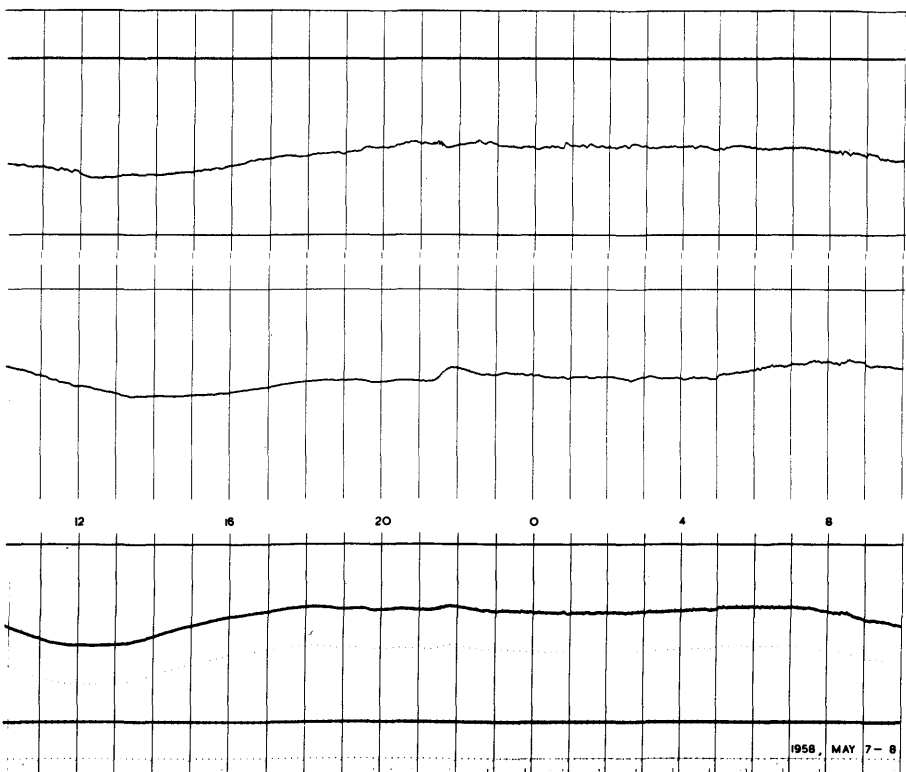


MAY 5-6



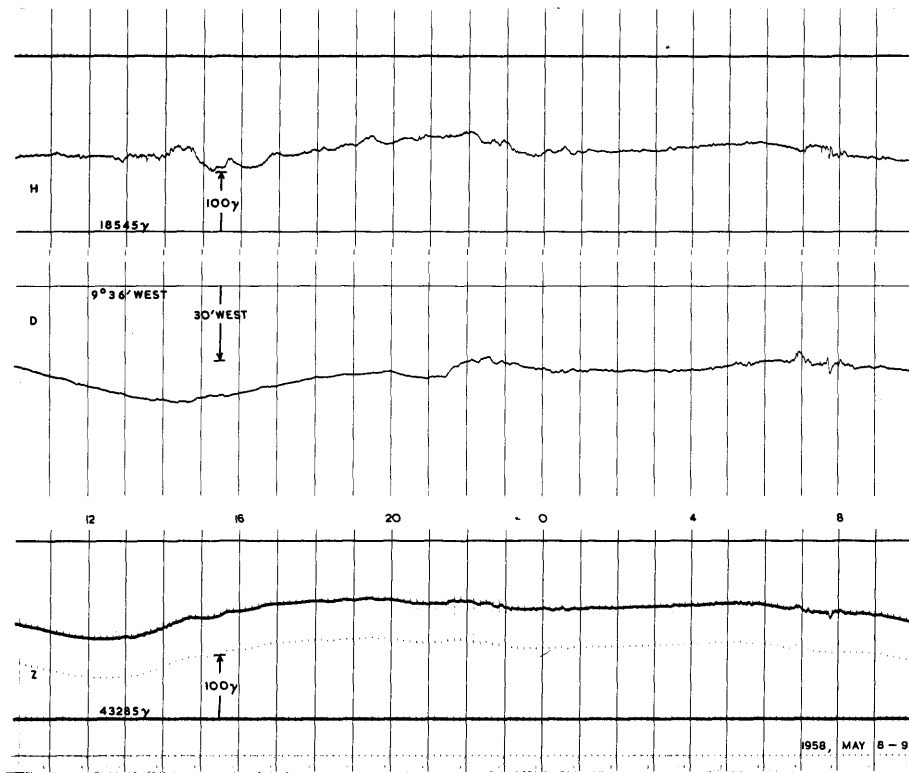
1958

MAY 6-7

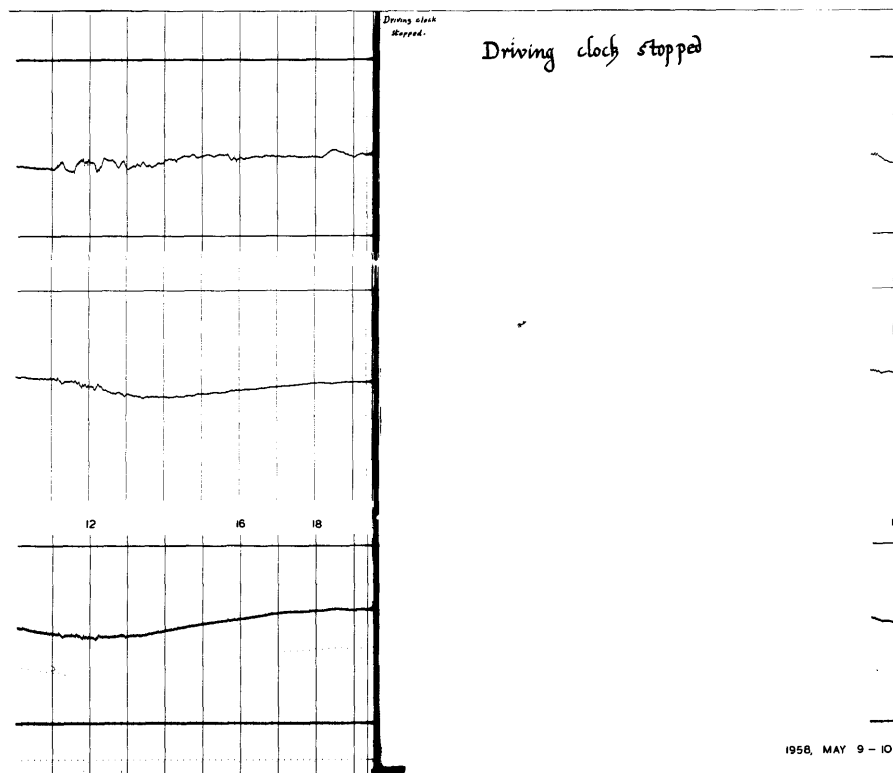


MAY 7-8

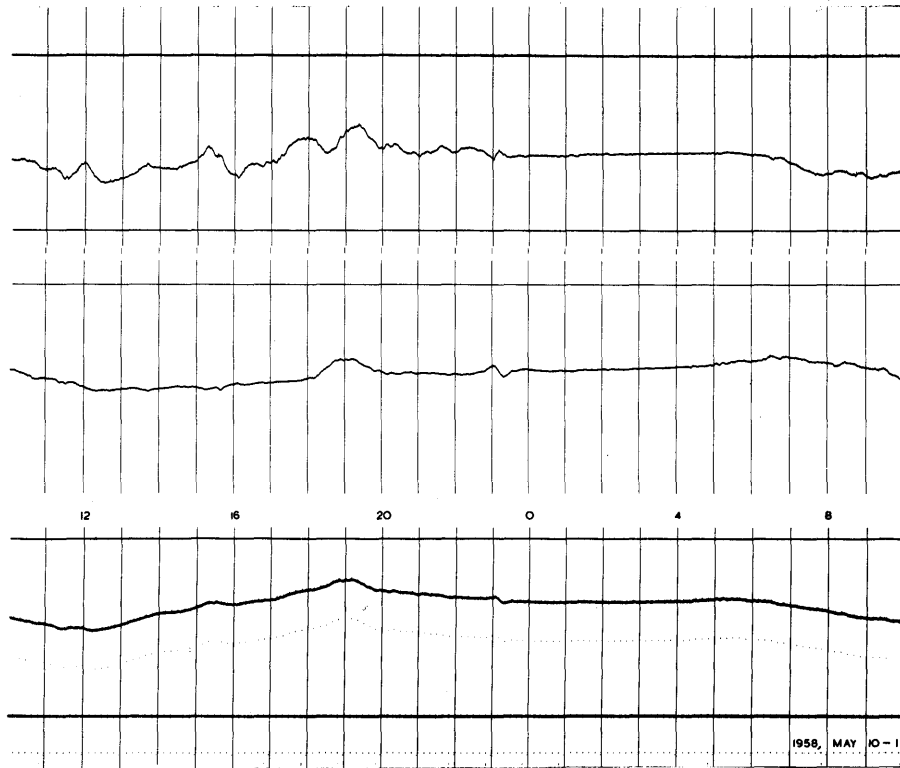
1958



MAY 8-9

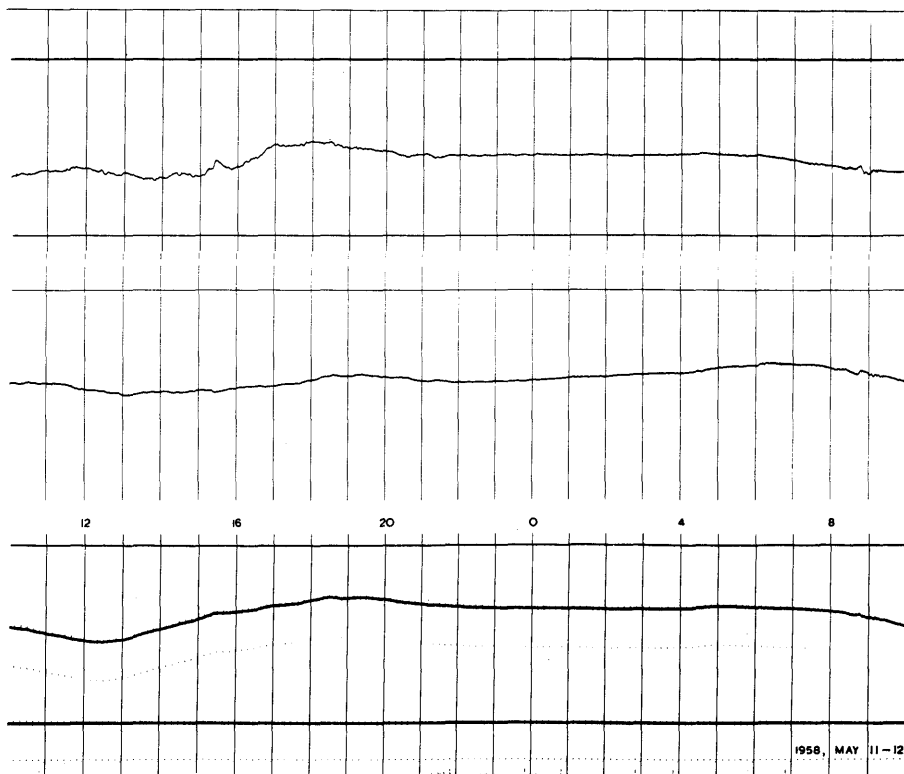


MAY 9-10



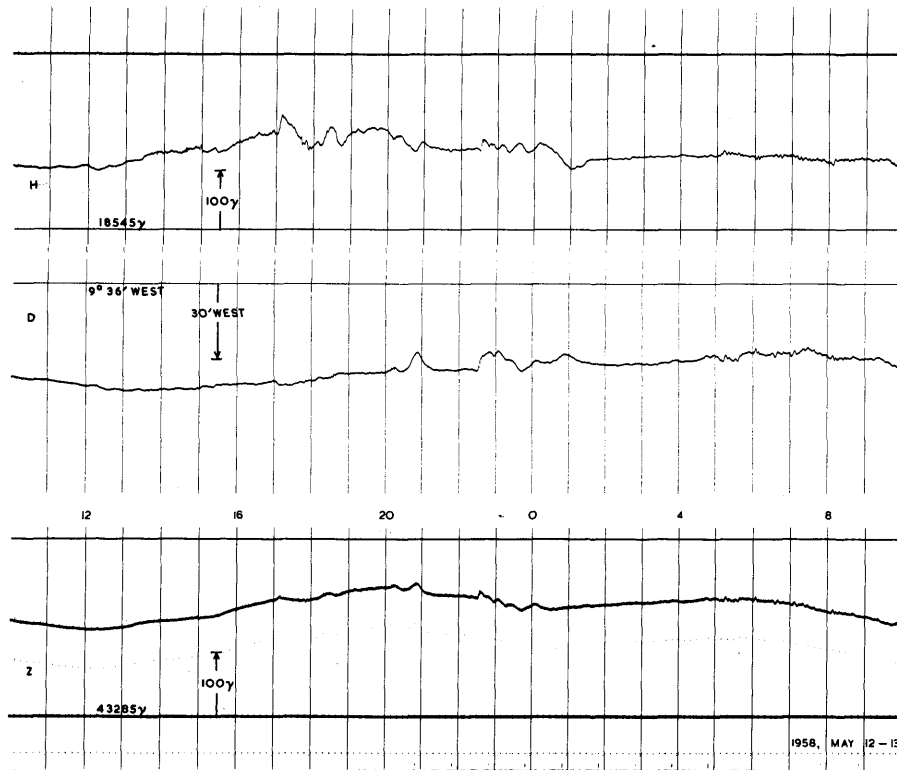
1958

MAY 10-11

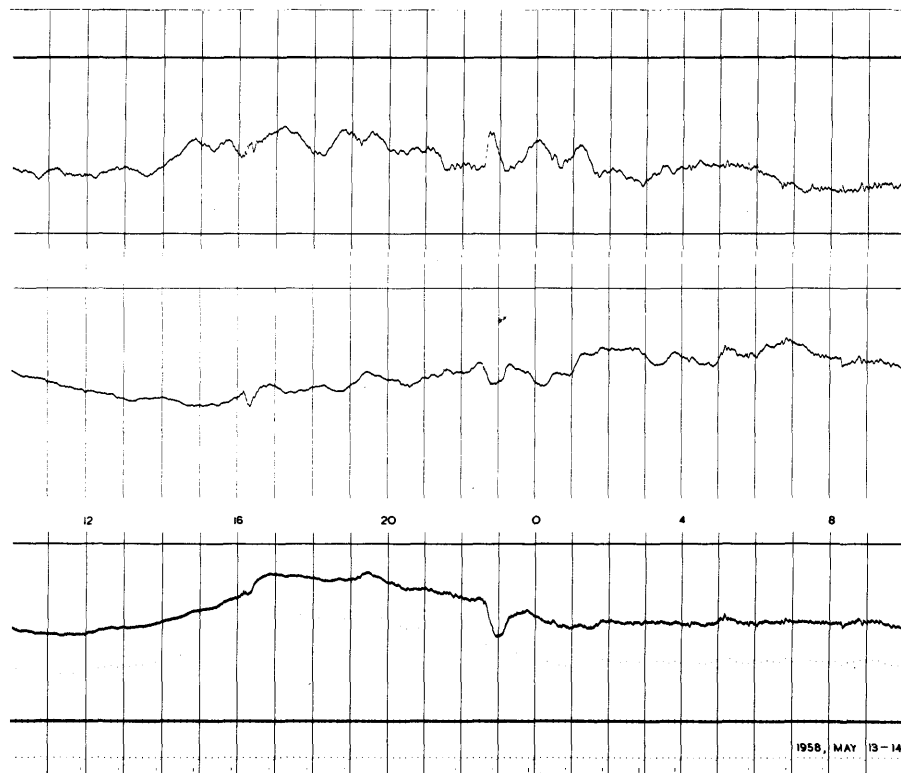


MAY 11-12

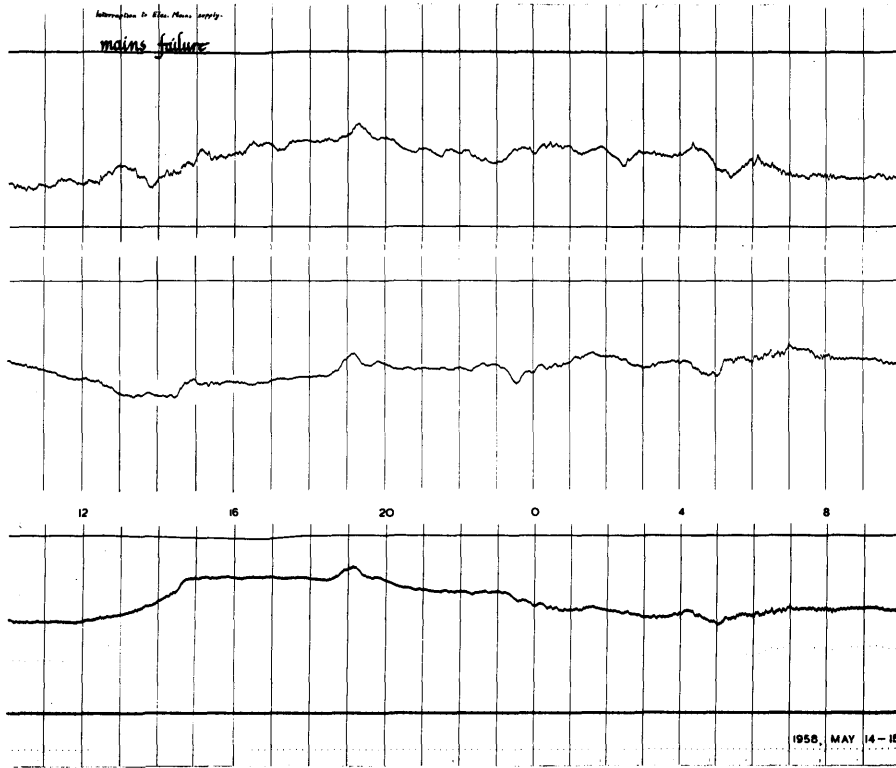
1958



MAY 12-13

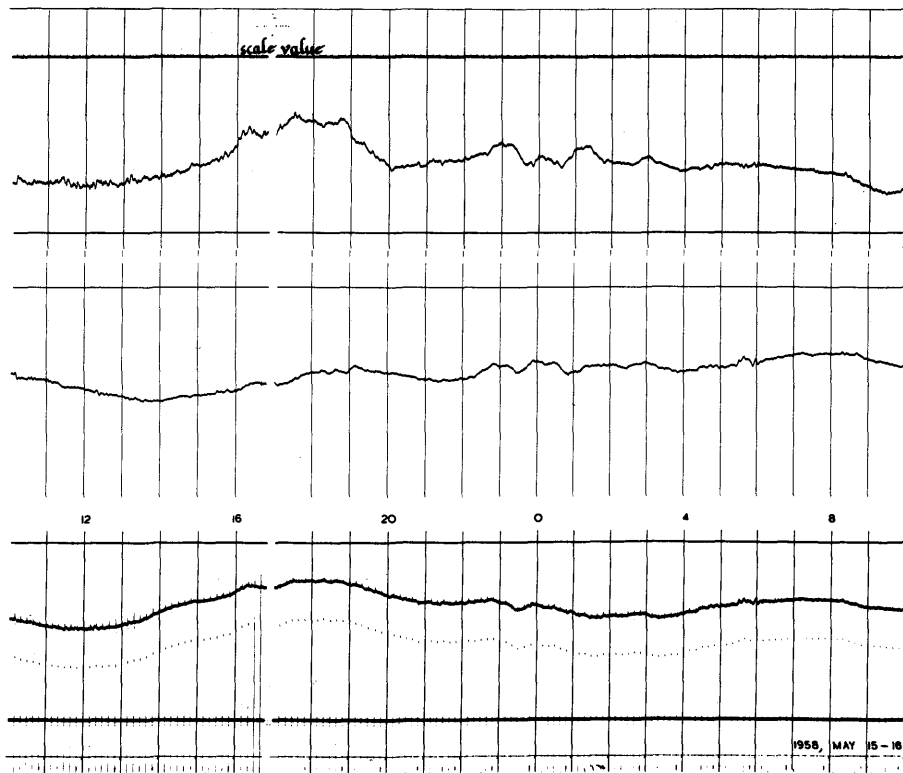


MAY 13-14



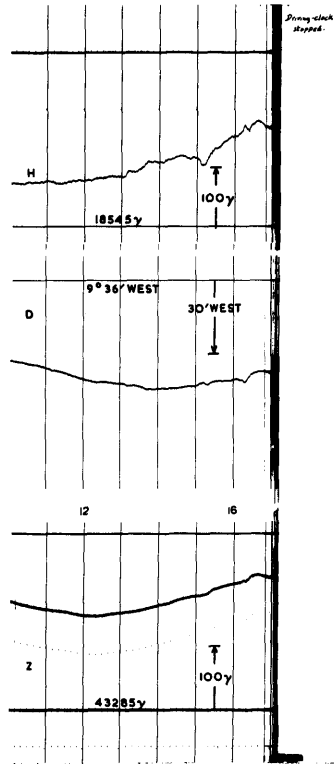
1958

MAY 14-15



MAY 15-16

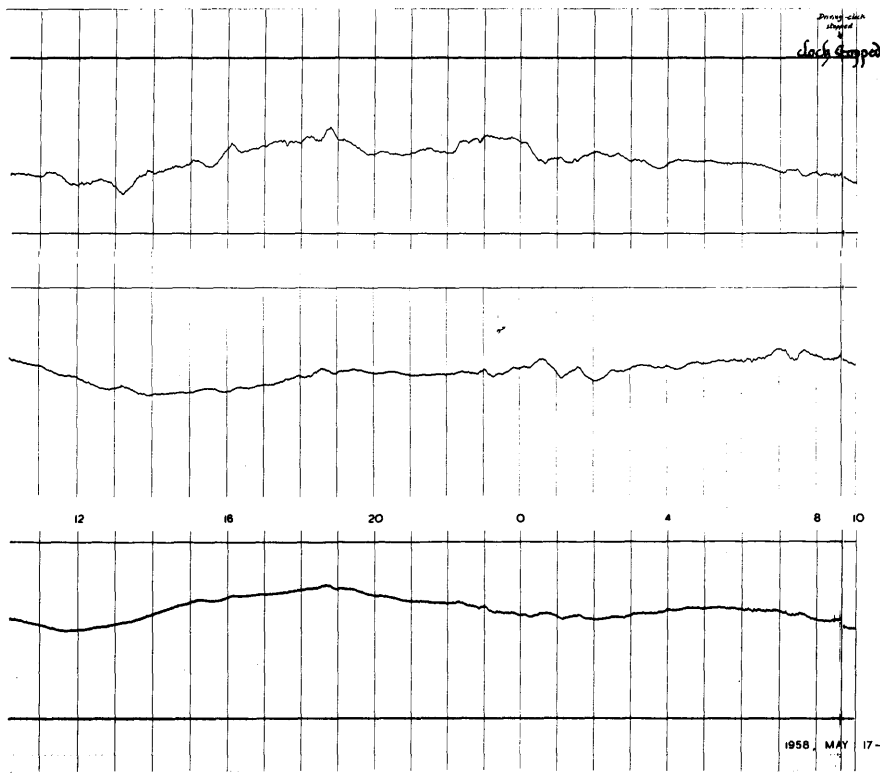
1958



Driving clock stopped

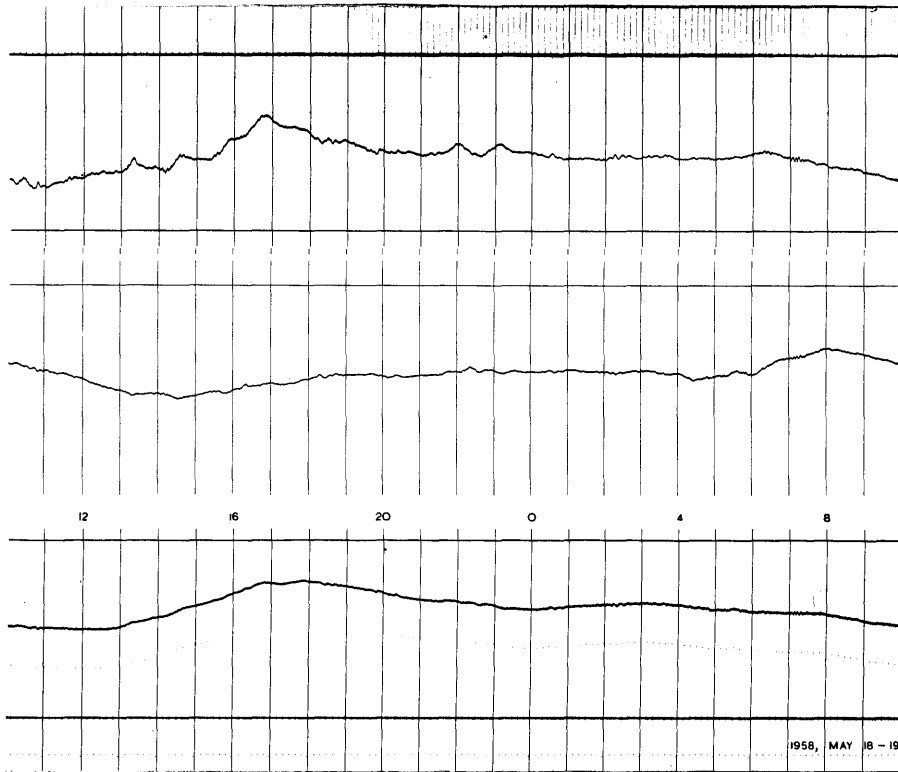
MAY 16-17

1958, MAY 16 - 17



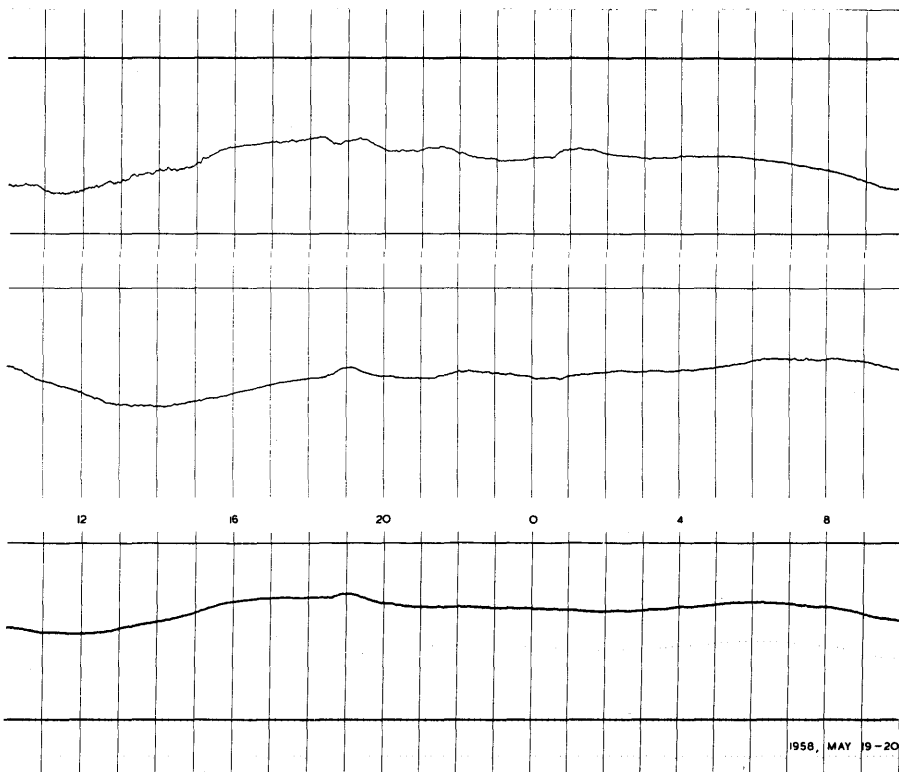
1958, MAY 17-18

MAY 17-18



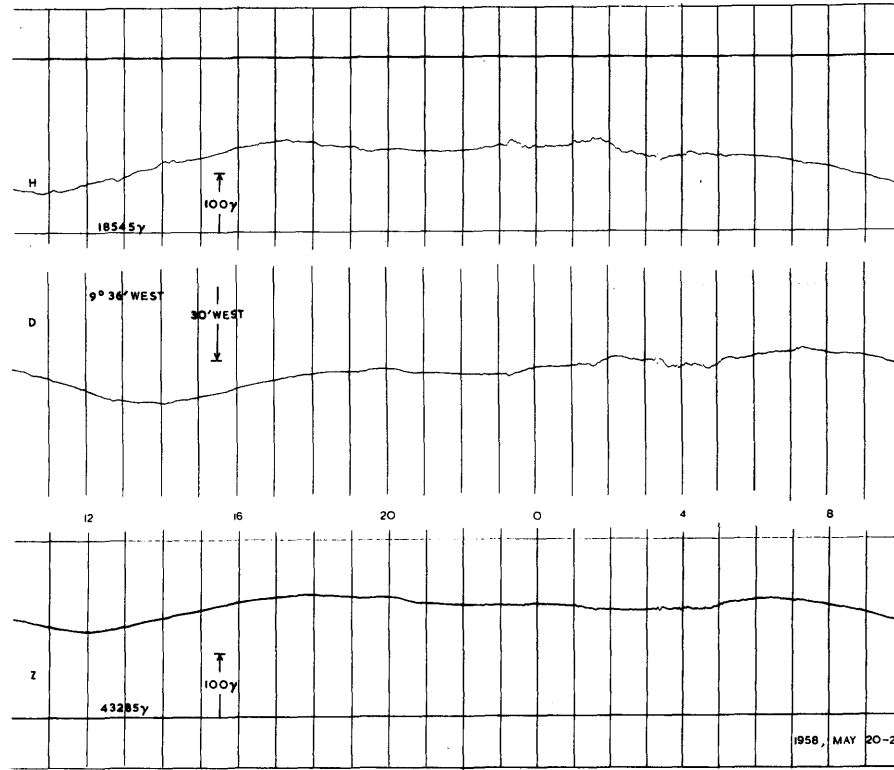
1958

MAY 18-19

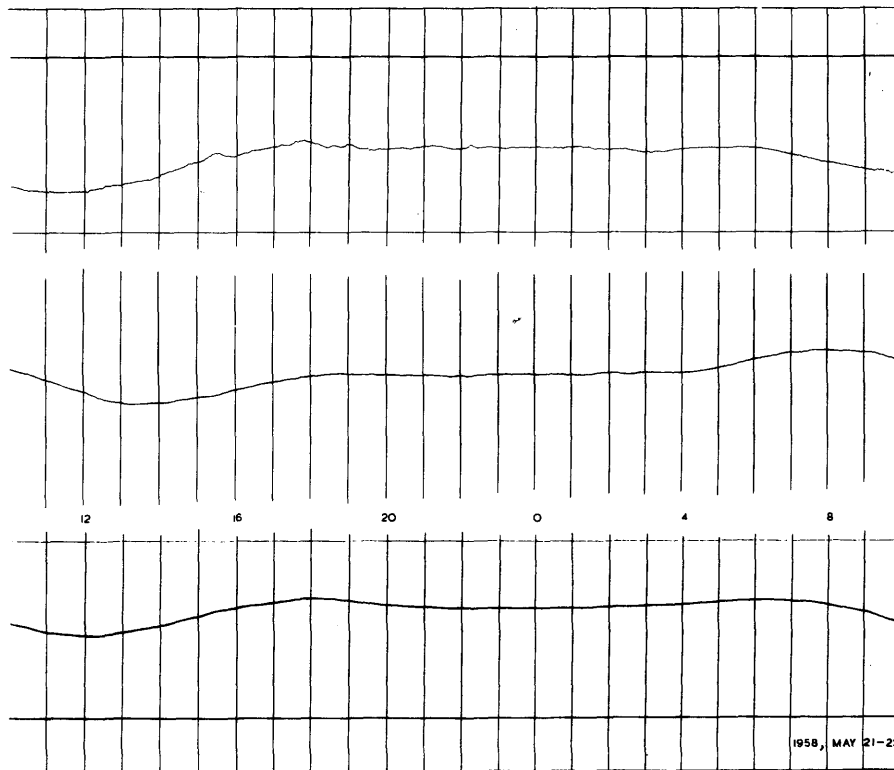


MAY 19-20

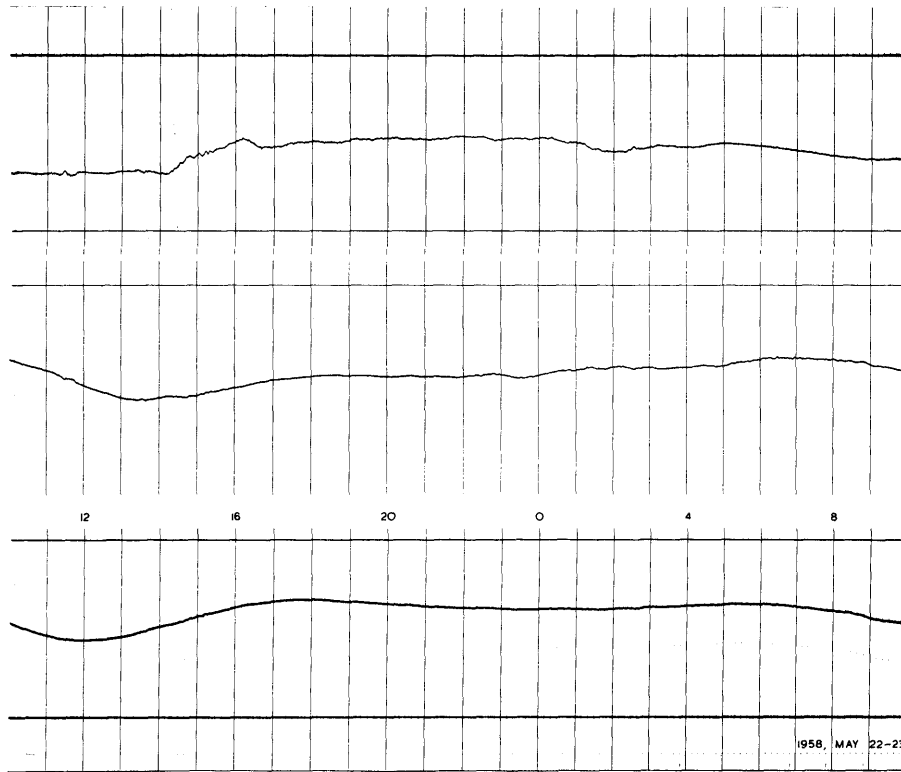
1958



MAY 20-21

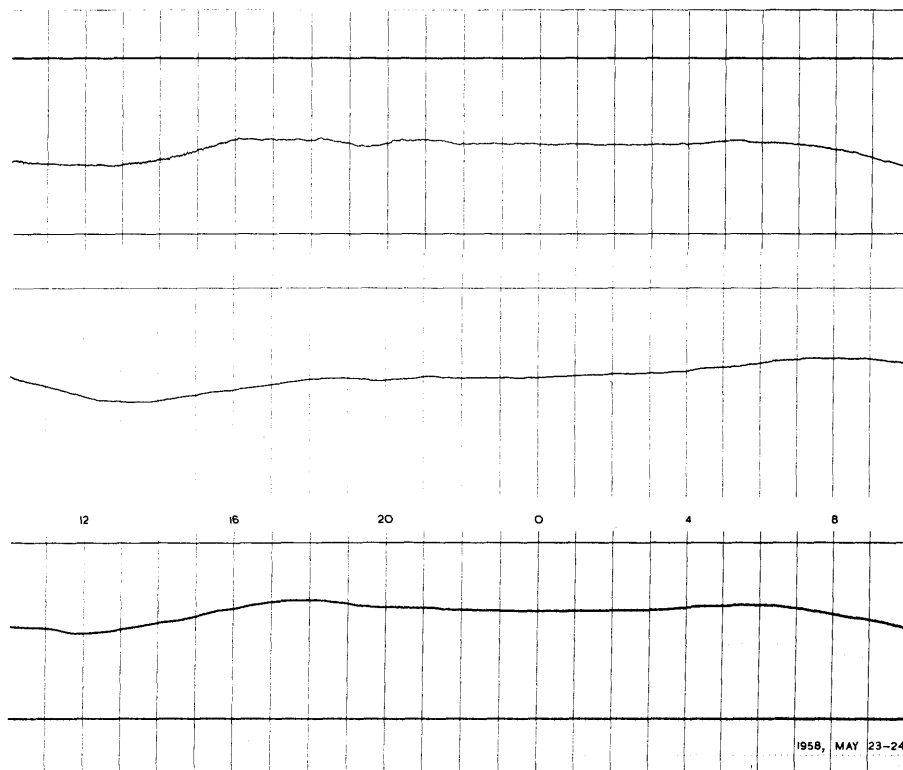


MAY 21-22



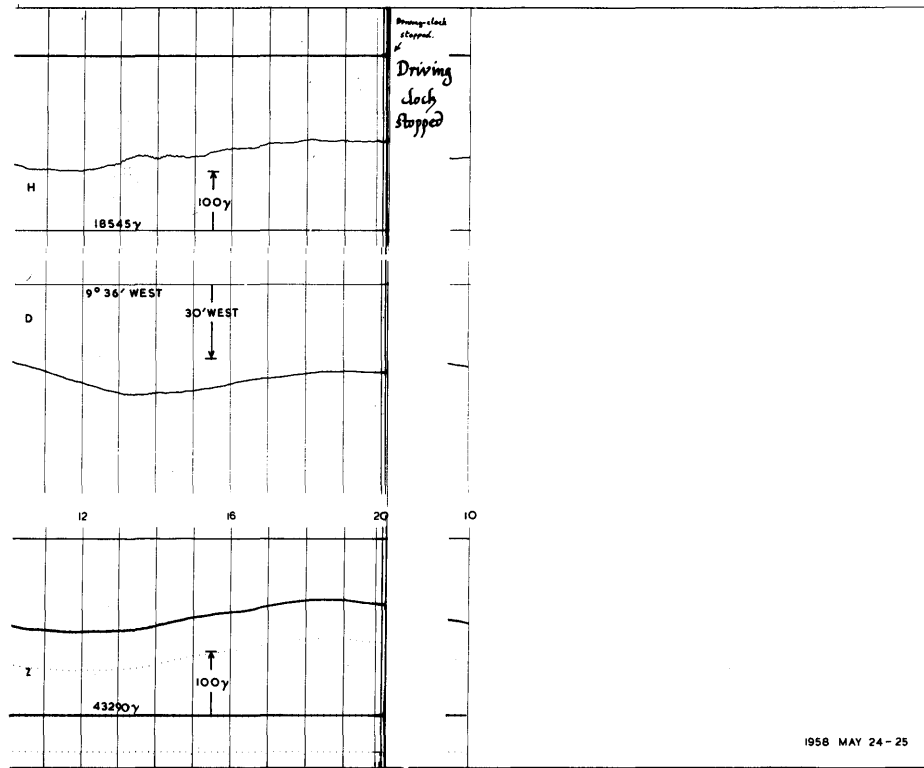
1958

MAY 22-23

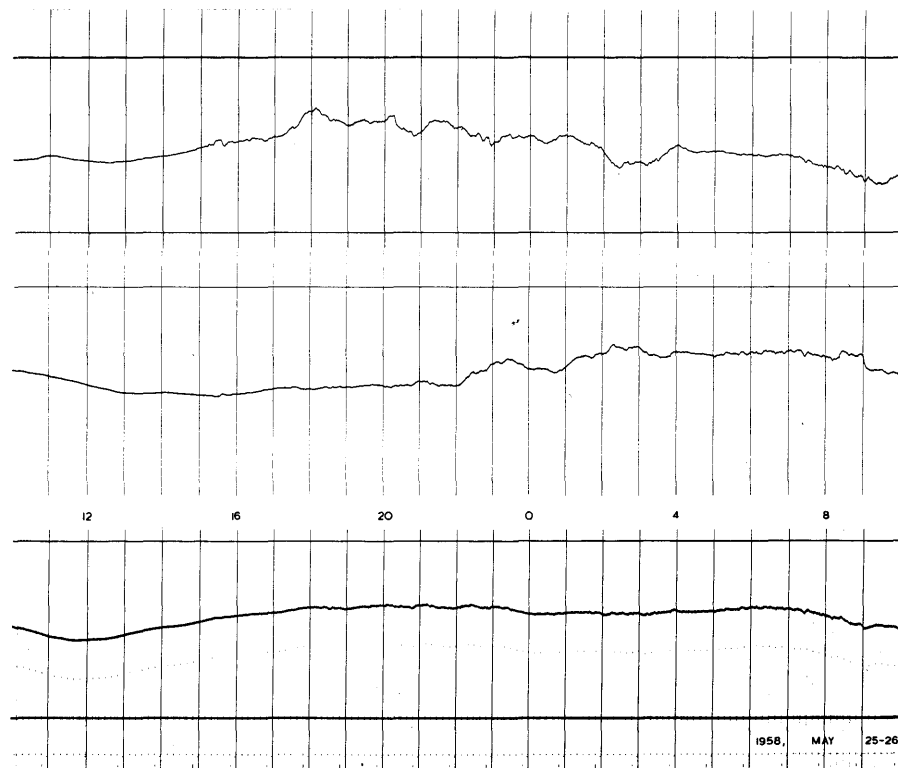


MAY 23-24

1958

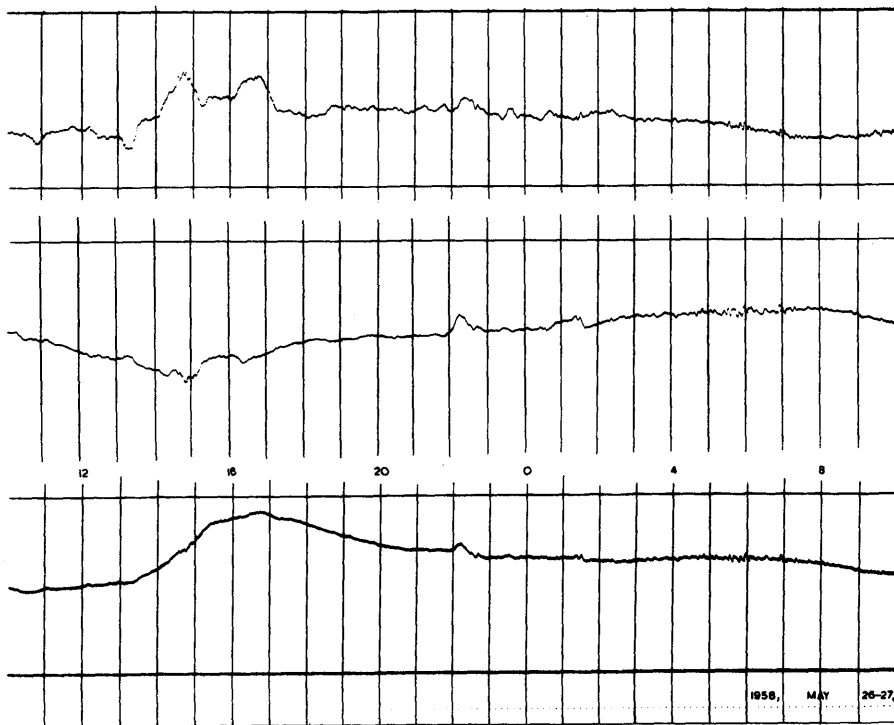


MAY 24-25

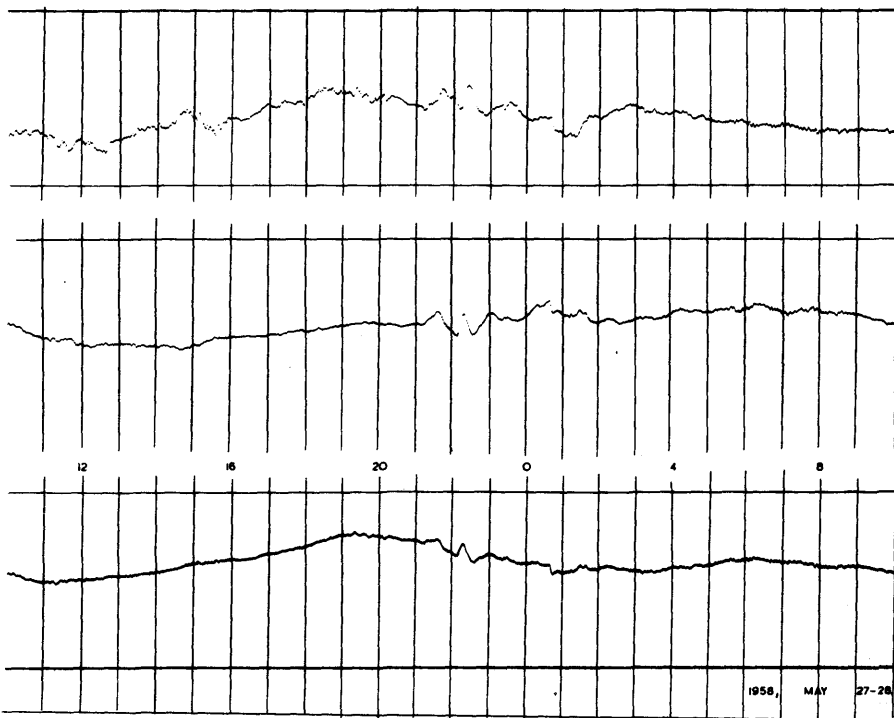


MAY 25-26

1958

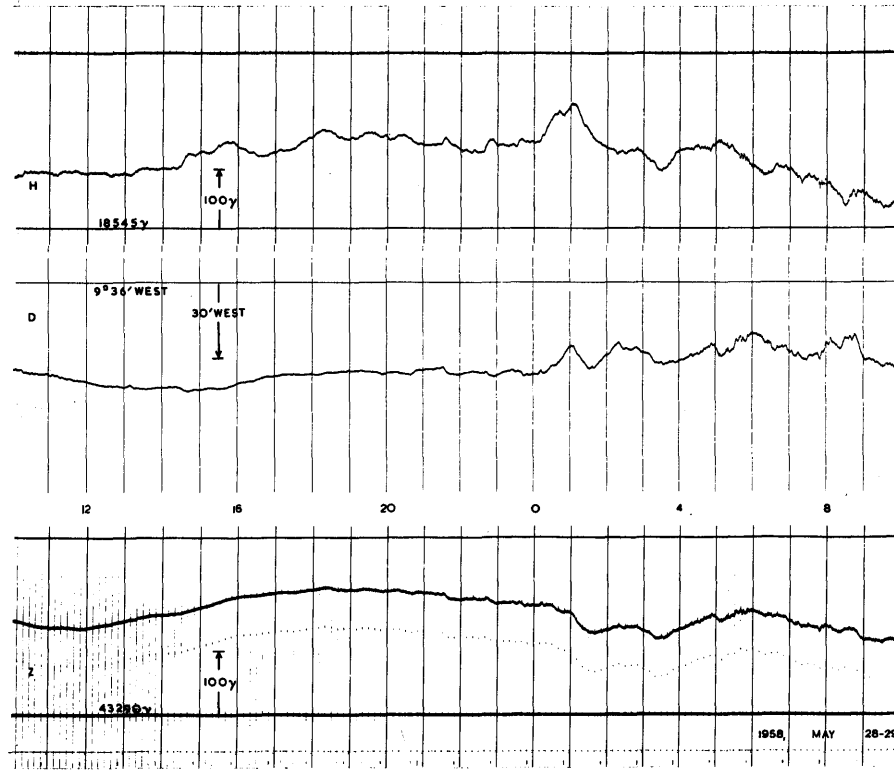


MAY 26-27

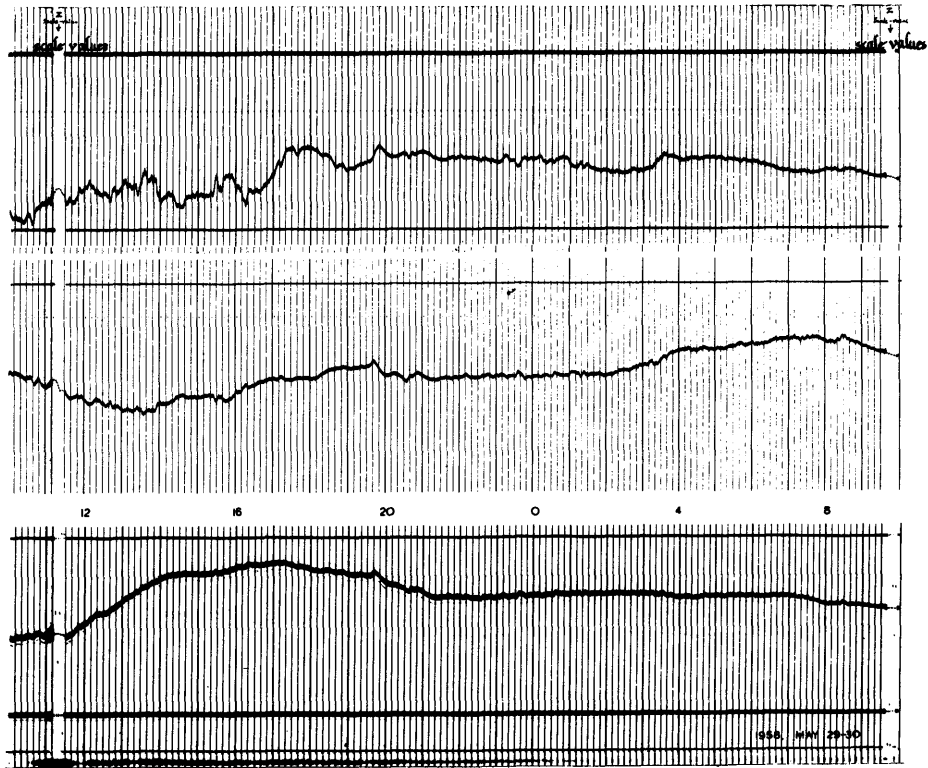


MAY 27-28

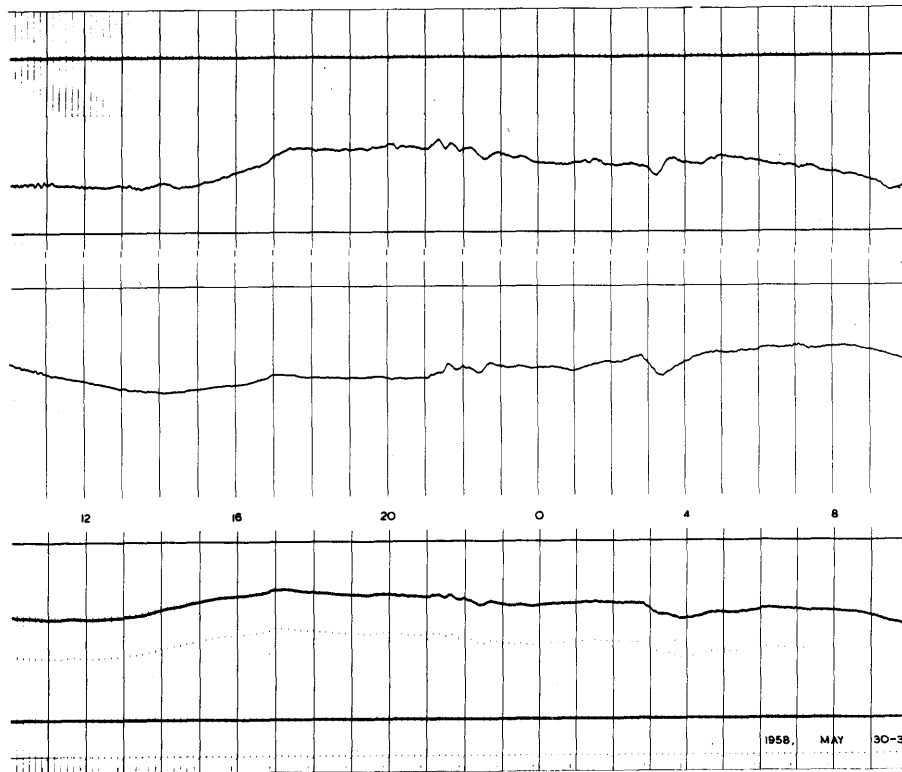
1958



MAY 28-29

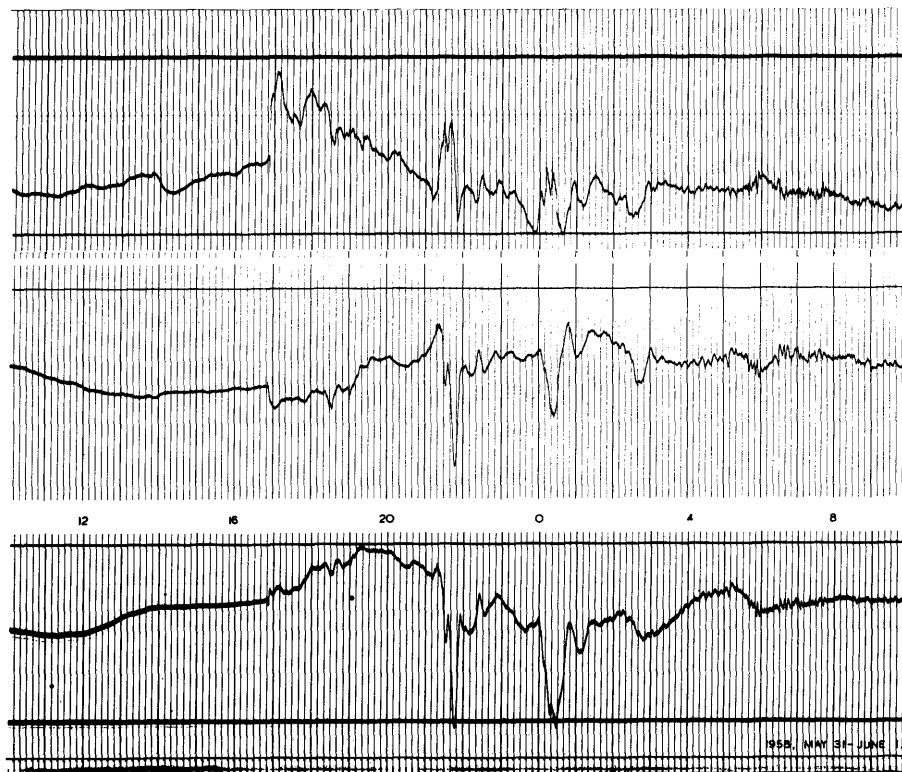


MAY 29-30



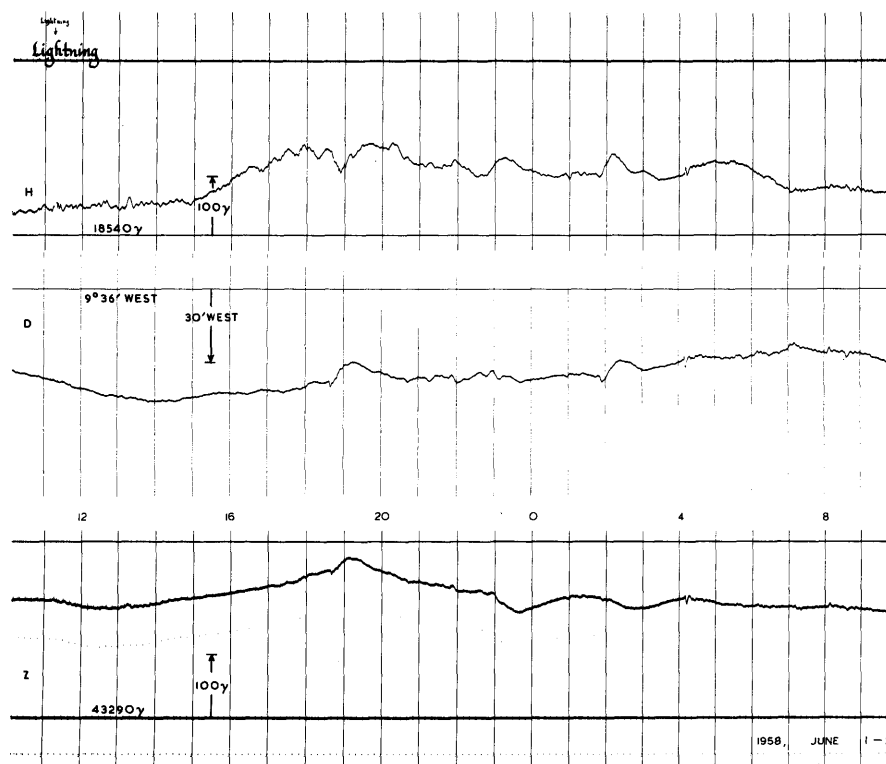
1958

MAY 30-31

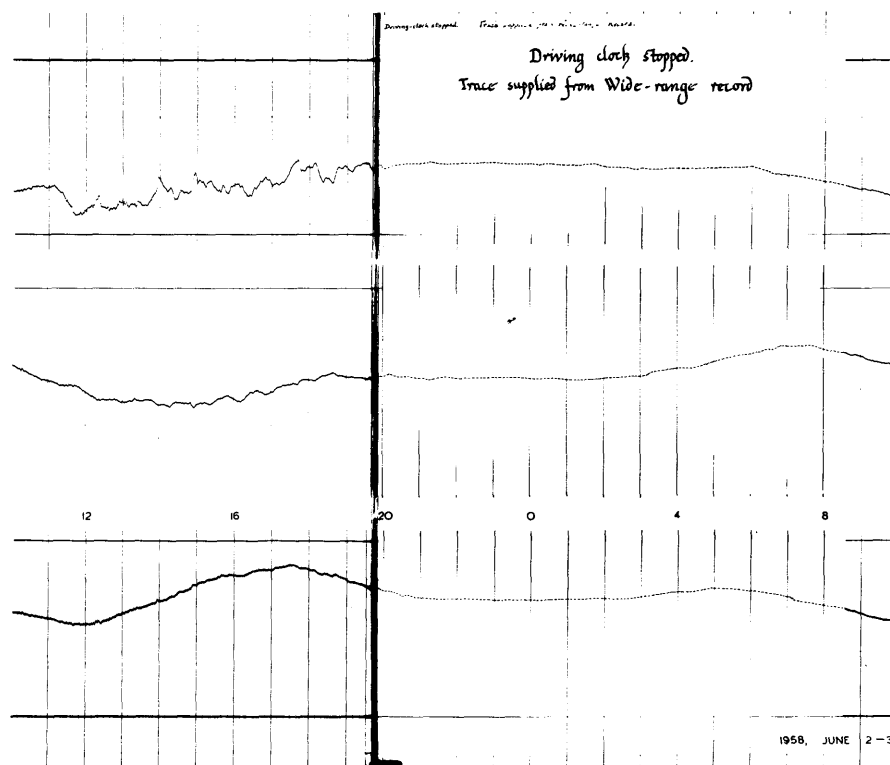


MAY 31-JUN 1

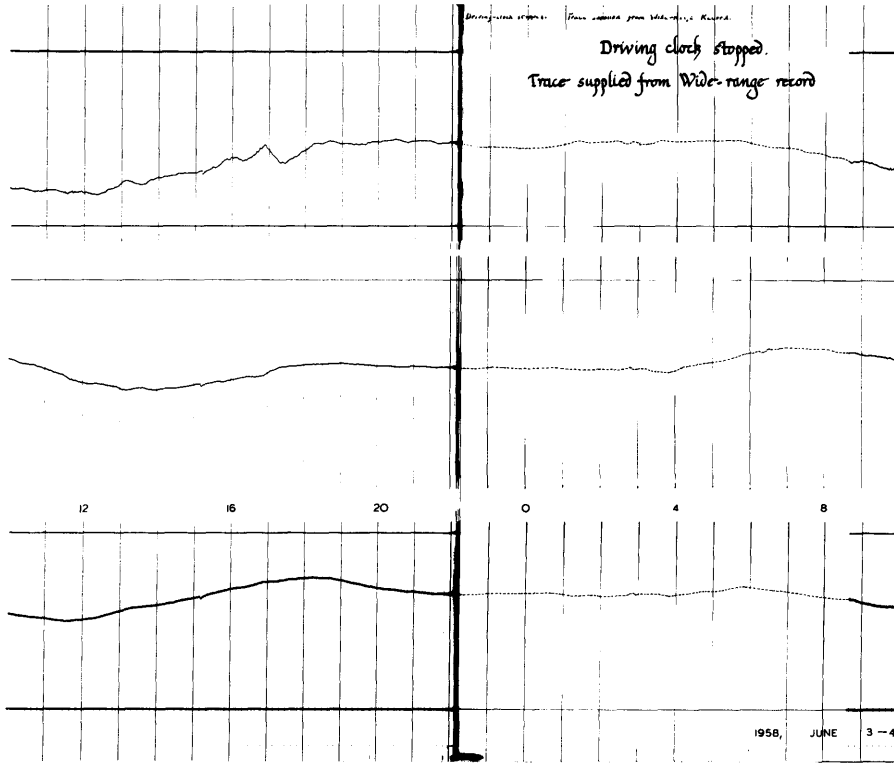
1958



JUNE 1-2

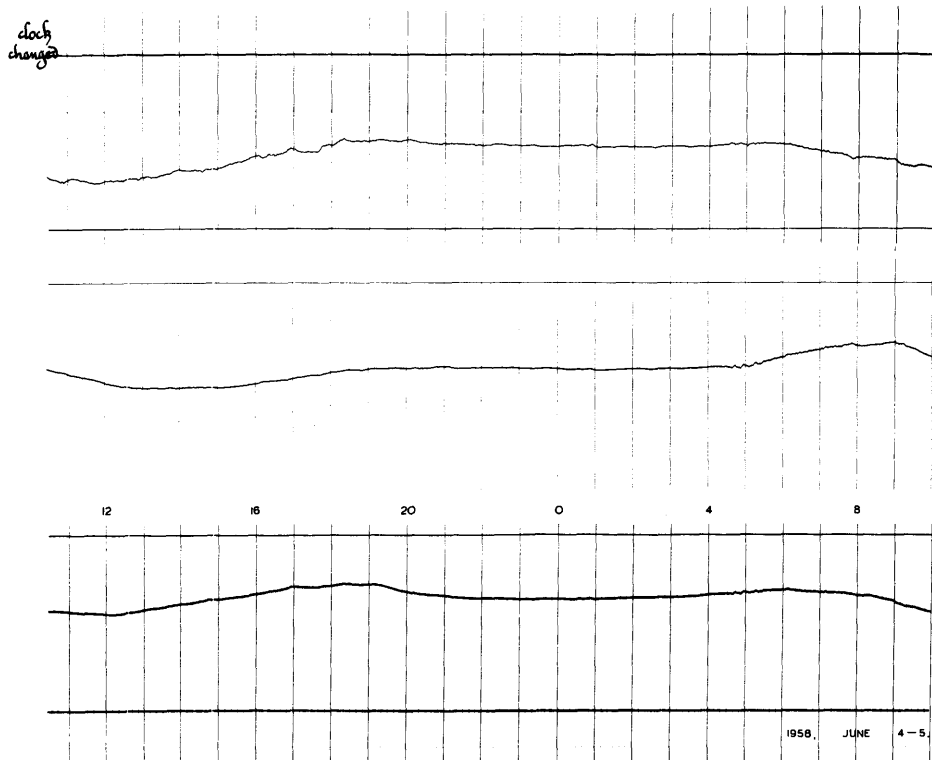


JUNE 2-3



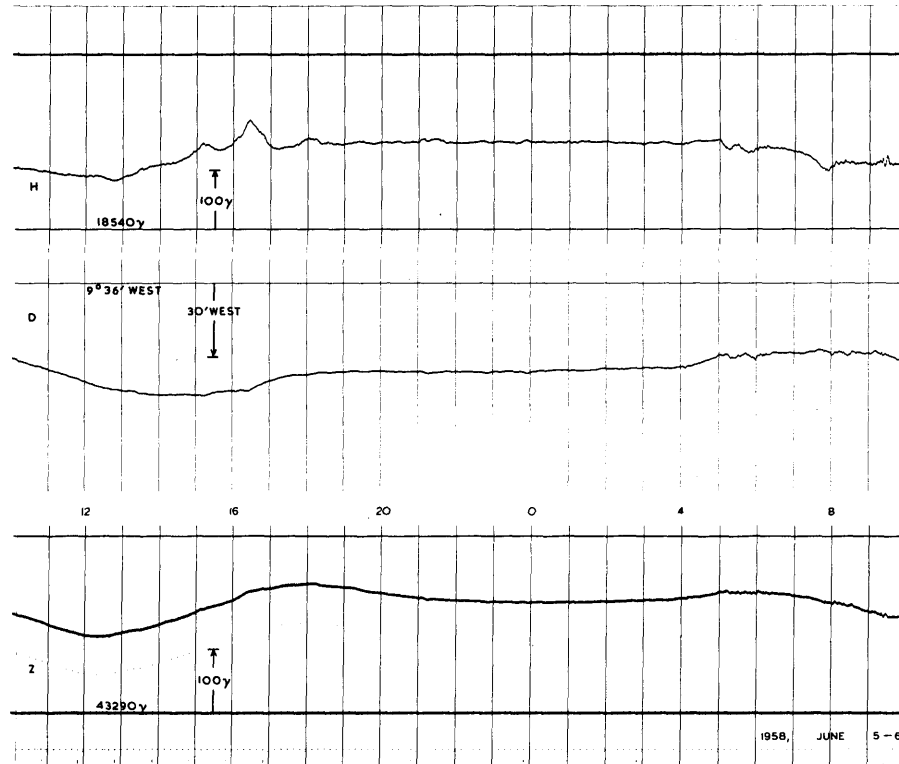
1958

JUNE 3-4

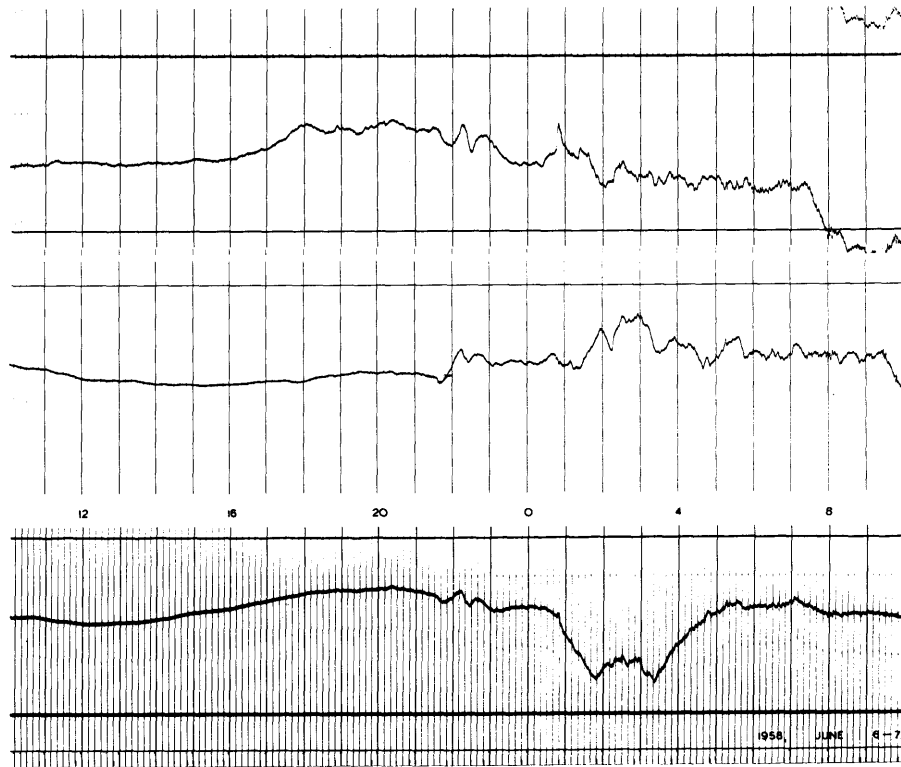


JUNE 4-5

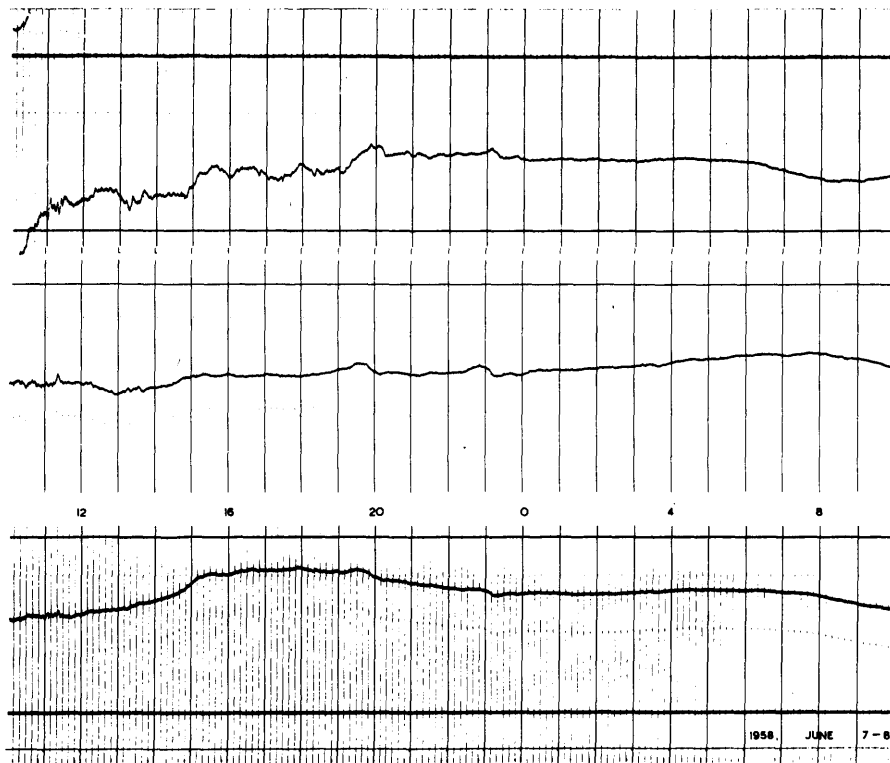
1958



JUNE 5-6

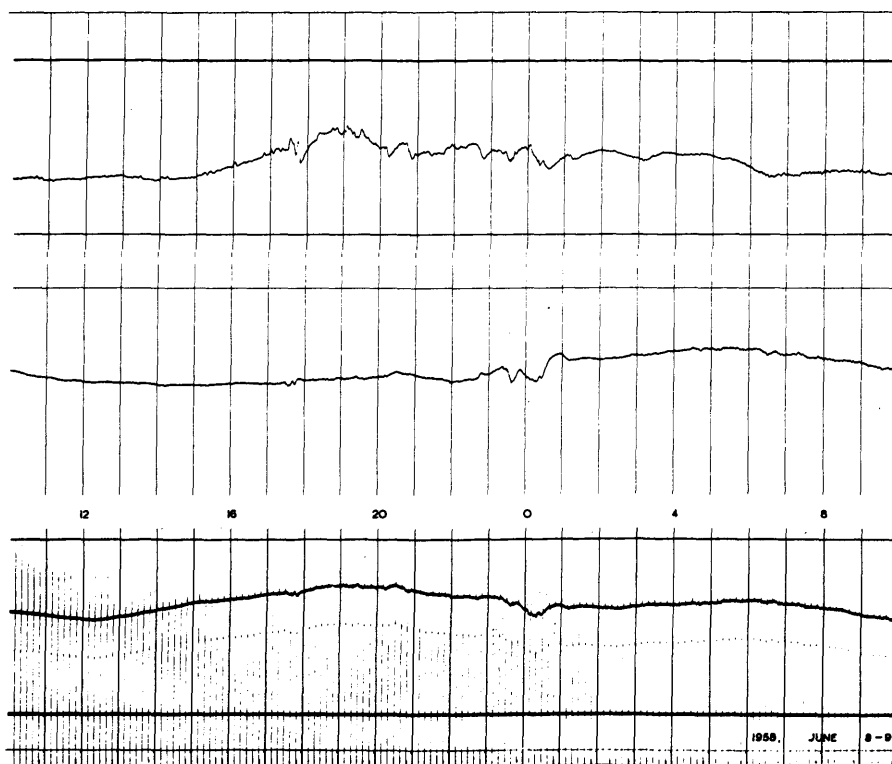


JUNE 6-7



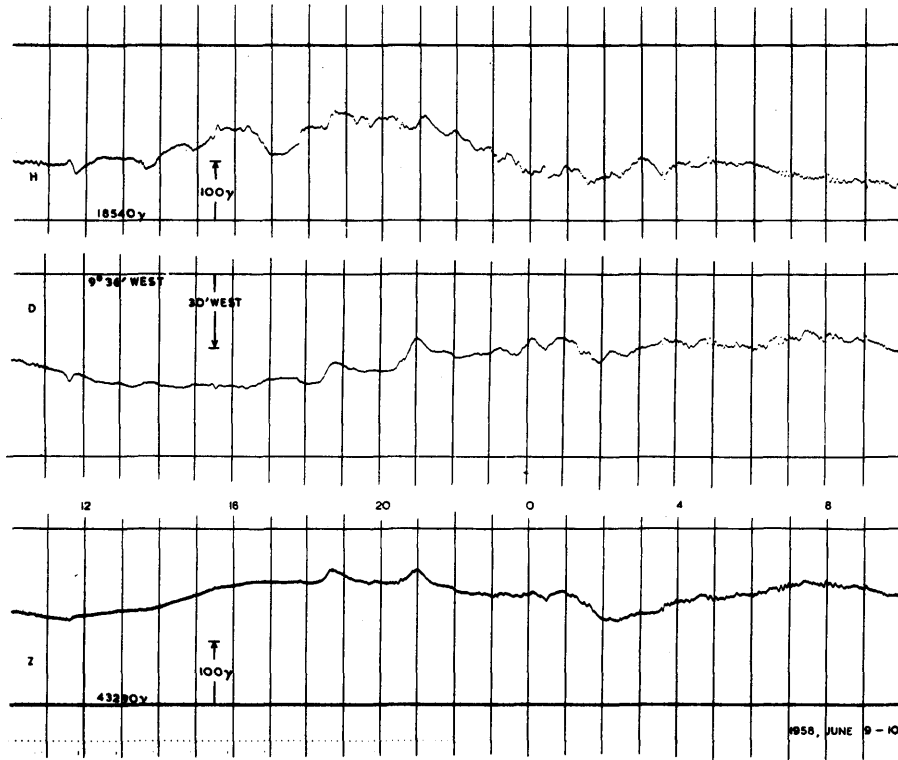
1958

JUNE 7-8

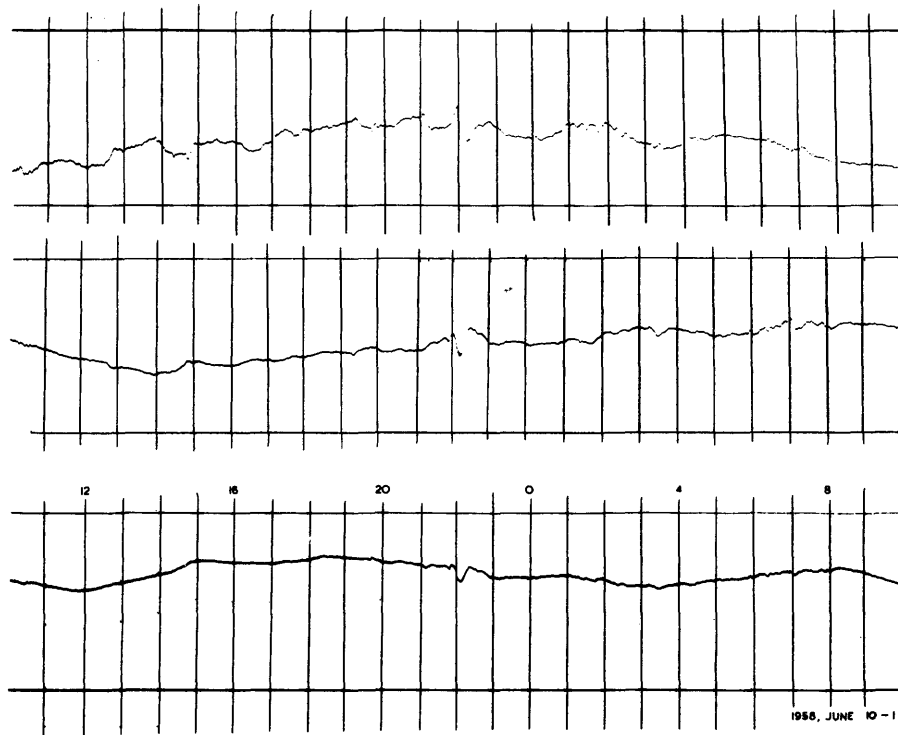


JUNE 8-9

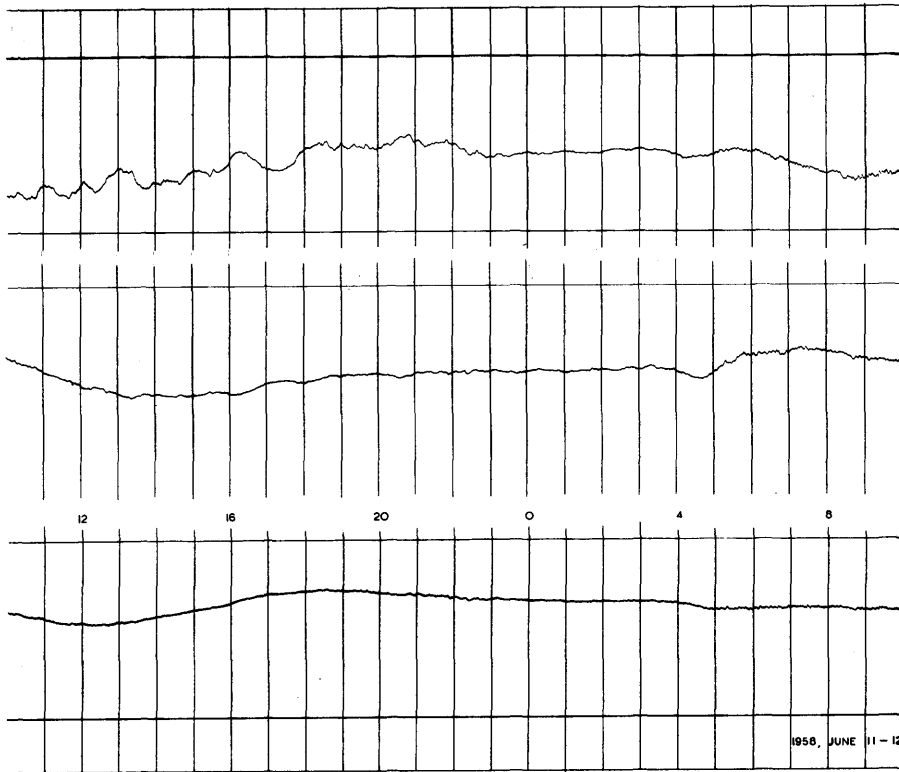
1958



JUNE 9-10



JUNE 10-11



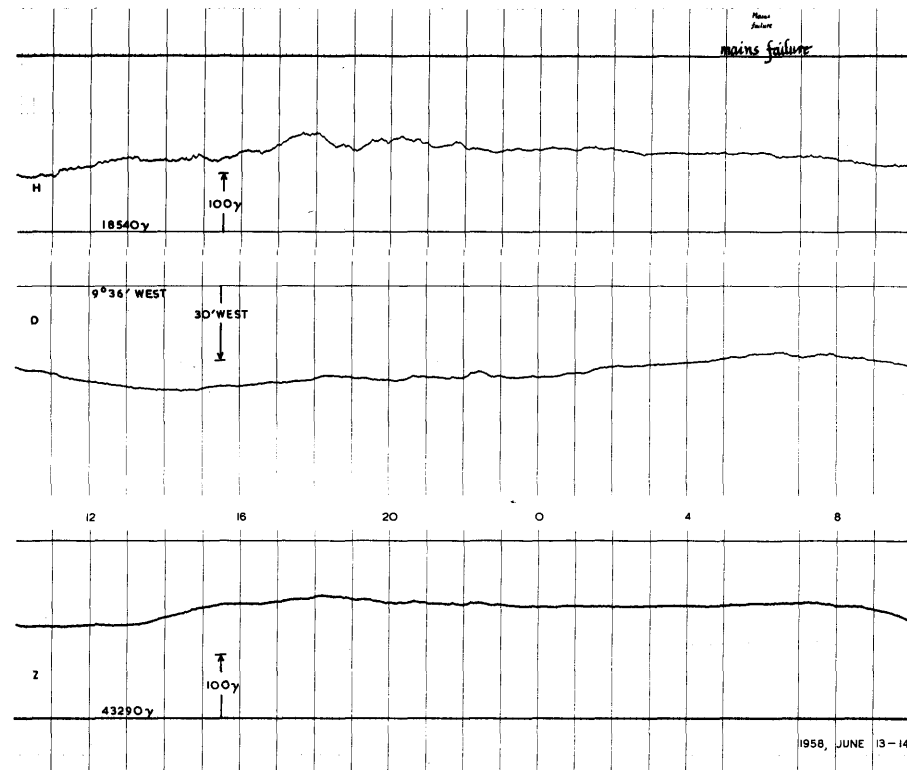
1958

JUNE 11-12

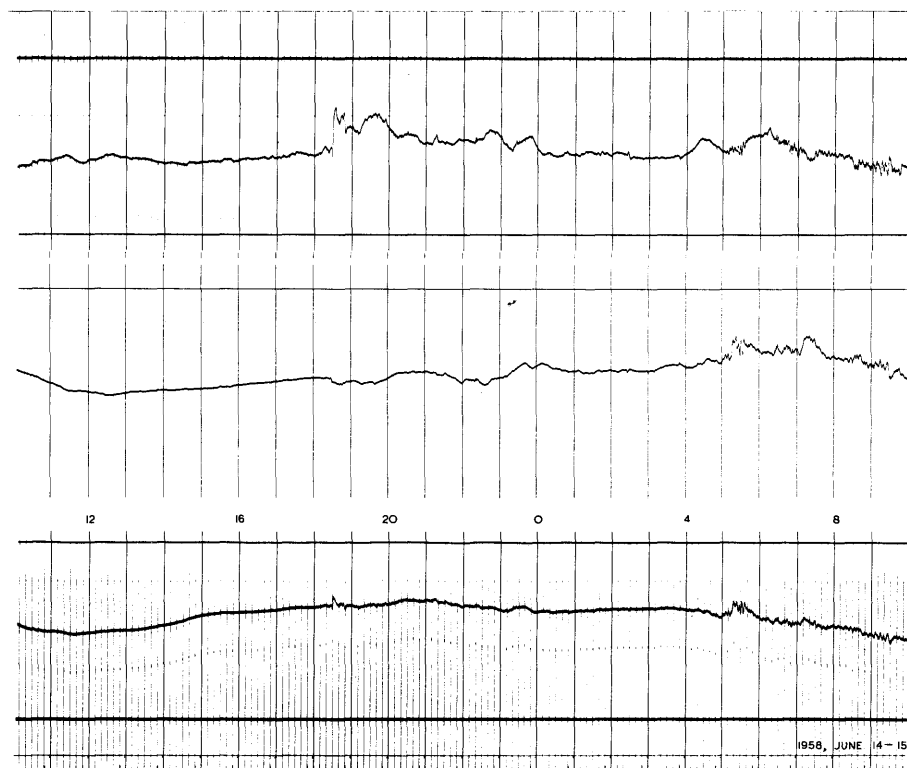


JUNE 12-13

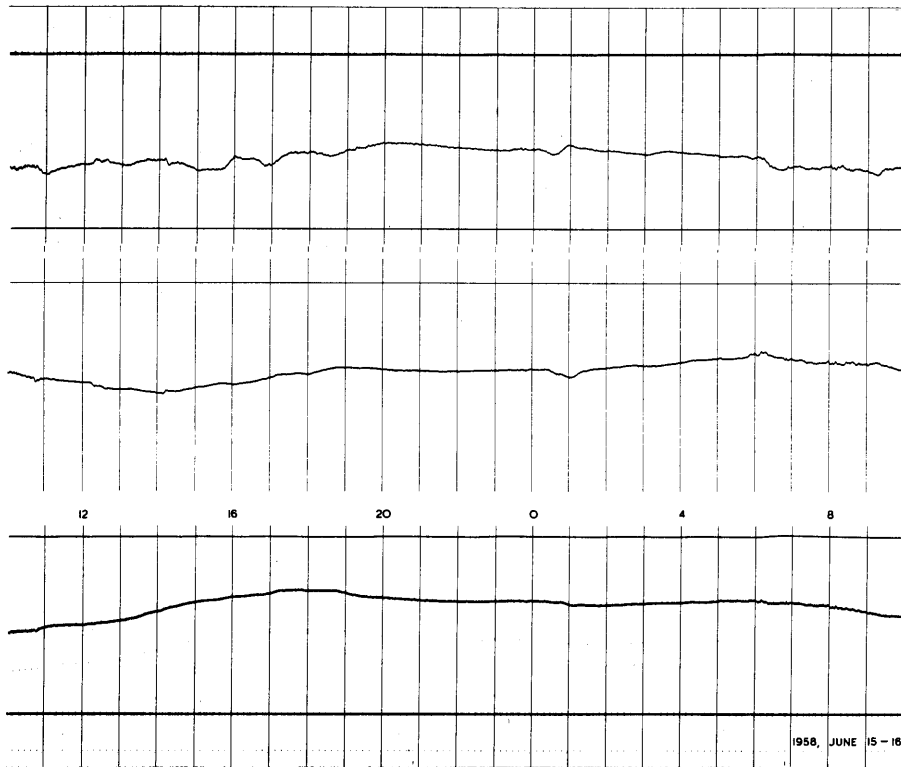
1958



JUNE 13-14

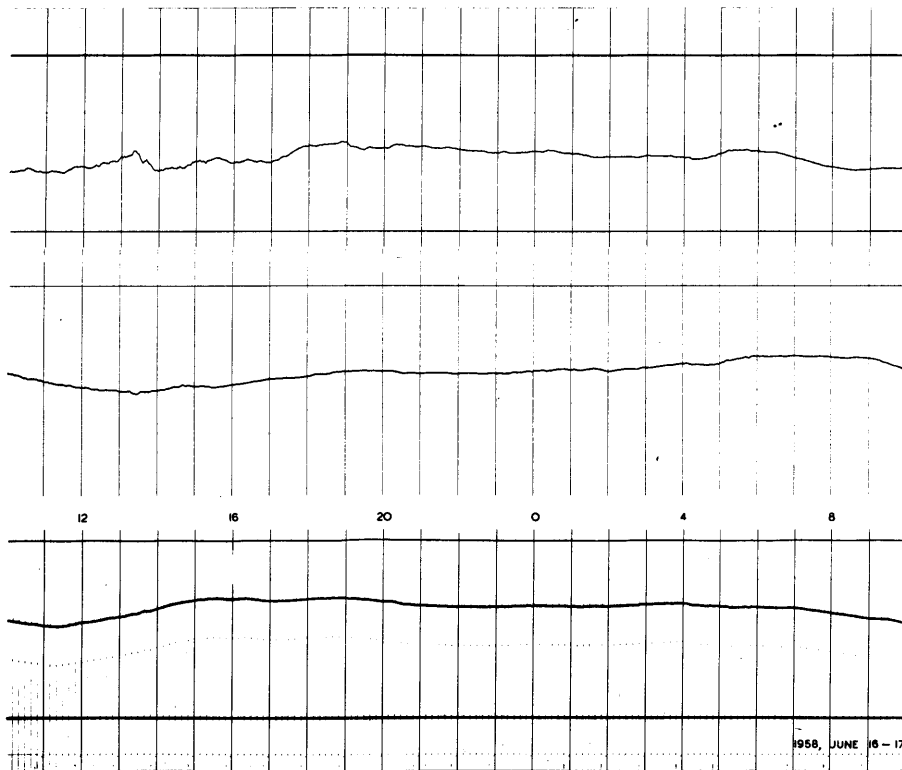


JUNE 14-15



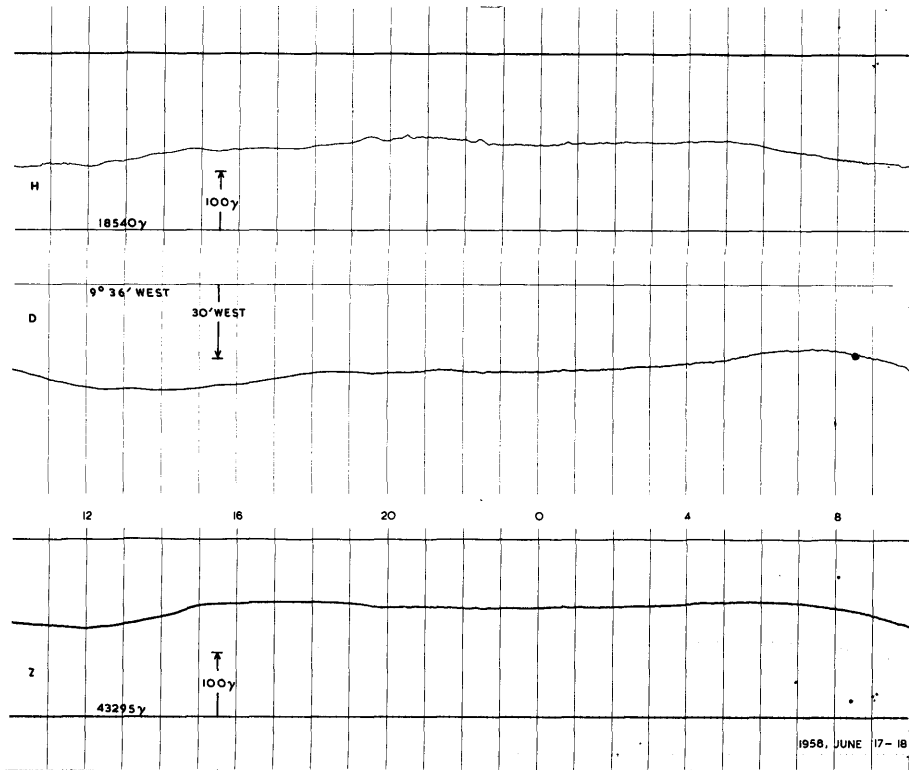
1958

JUNE 15-16

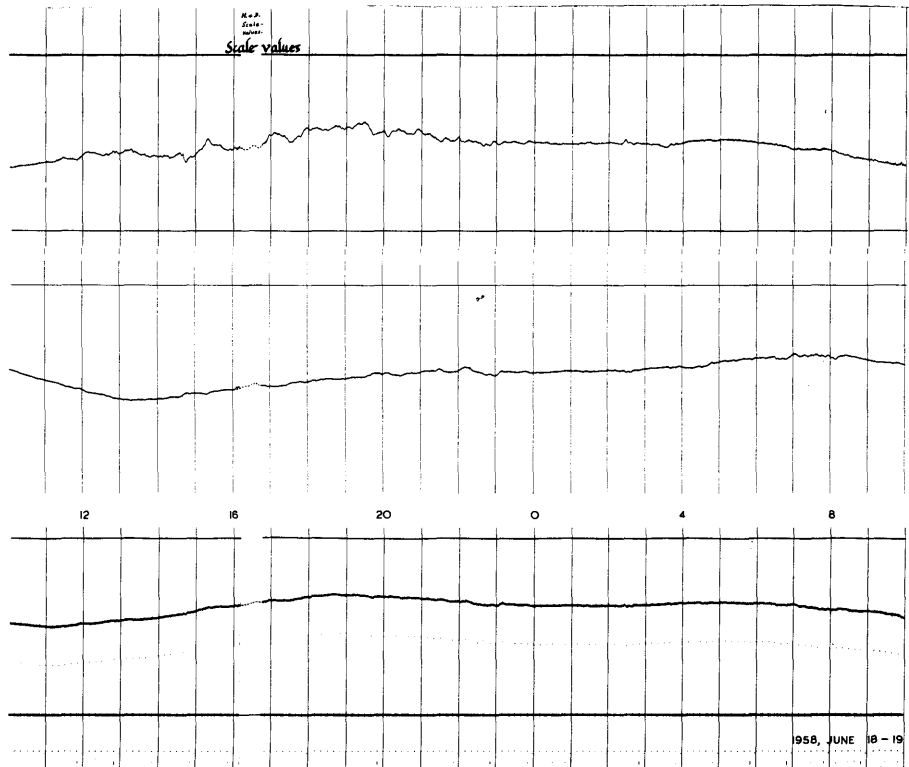


JUNE 16-17

1958

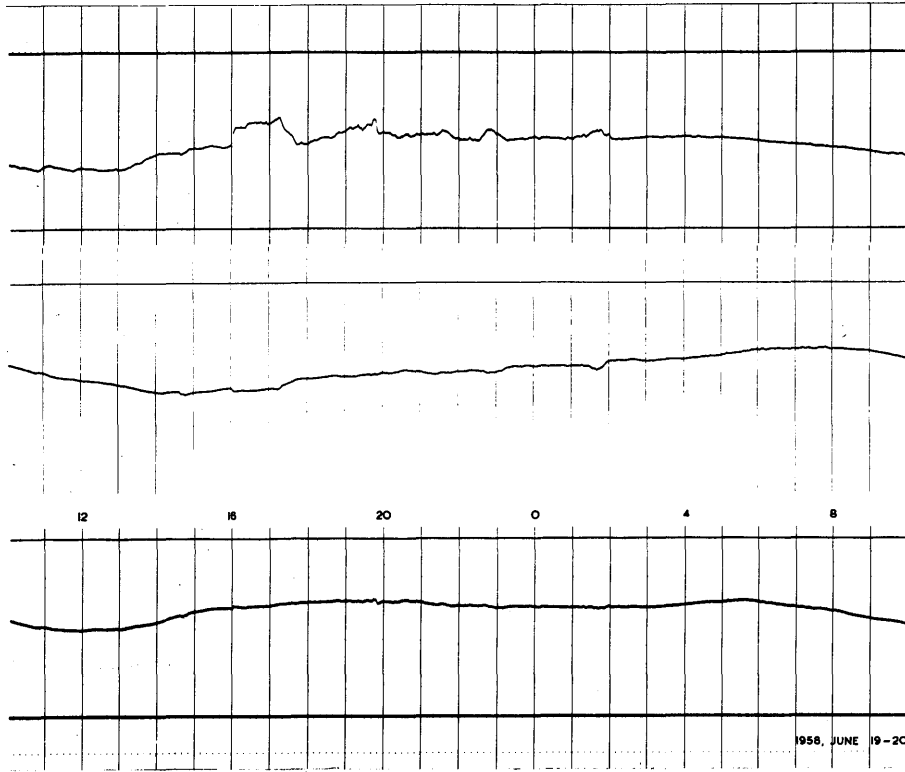


JUNE 17-18

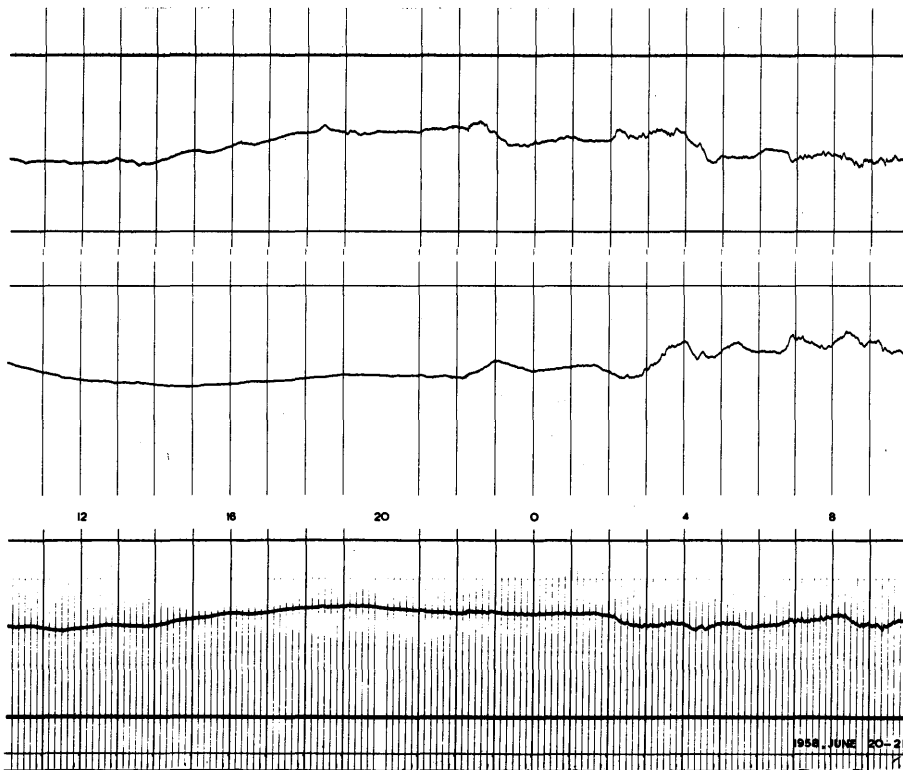


JUNE 18-19

1958

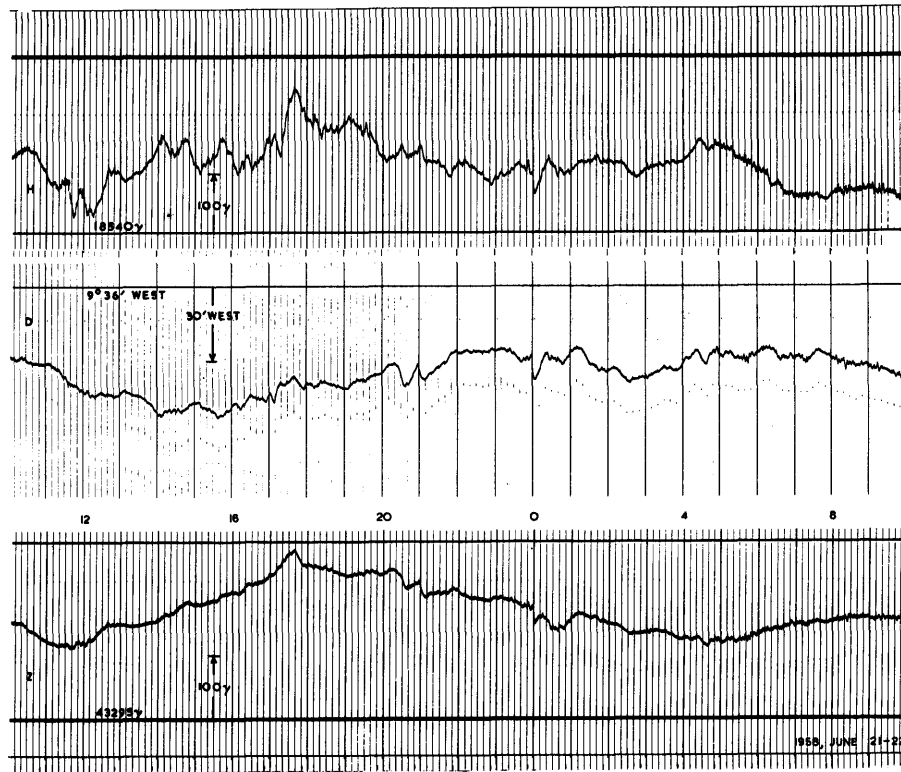


JUNE 19-20

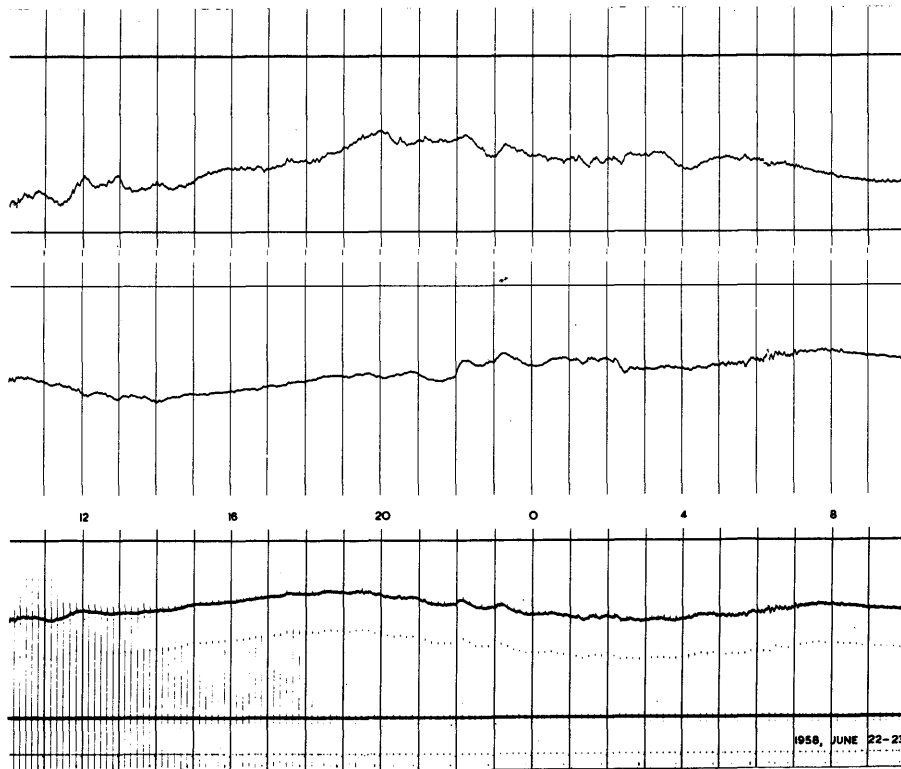


JUNE 20-21

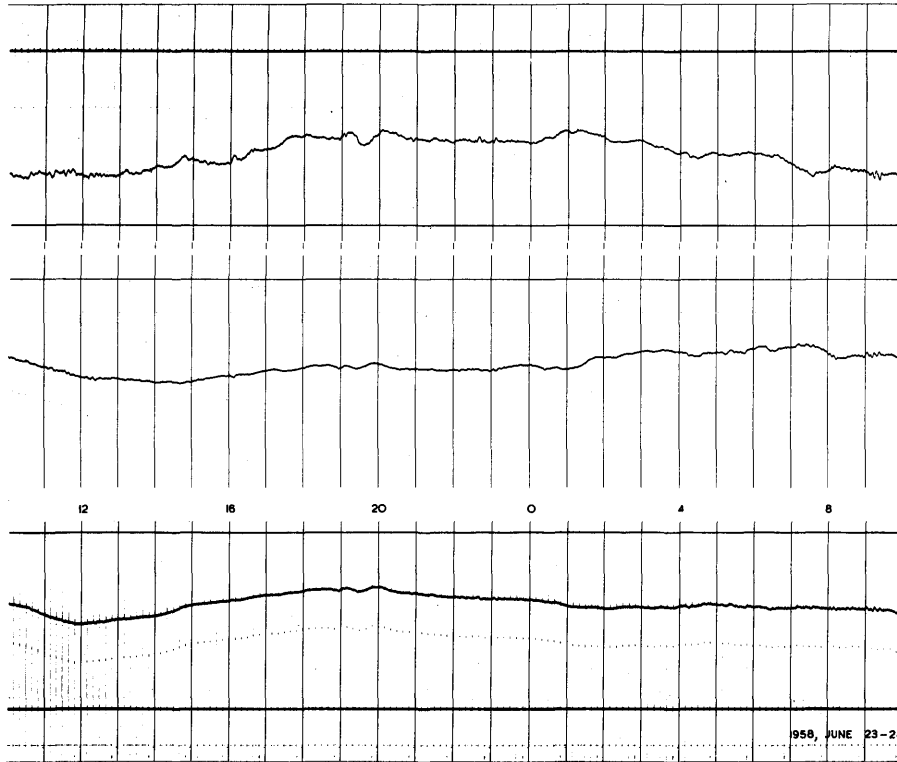
1958



JUNE 21-22

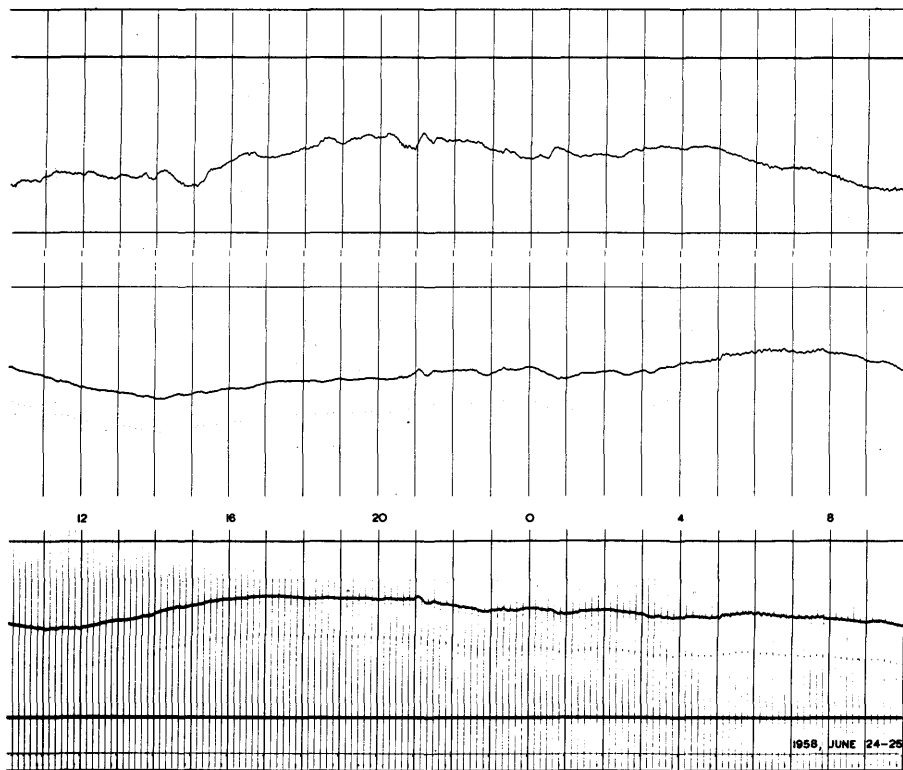


JUNE 22-23



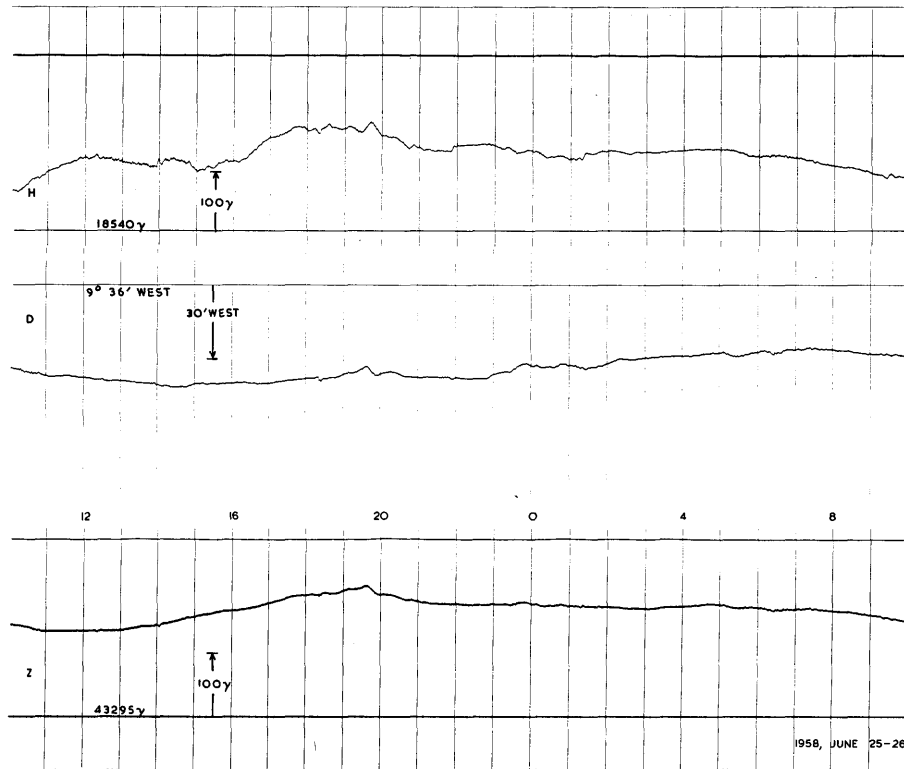
1958

JUNE 23-24

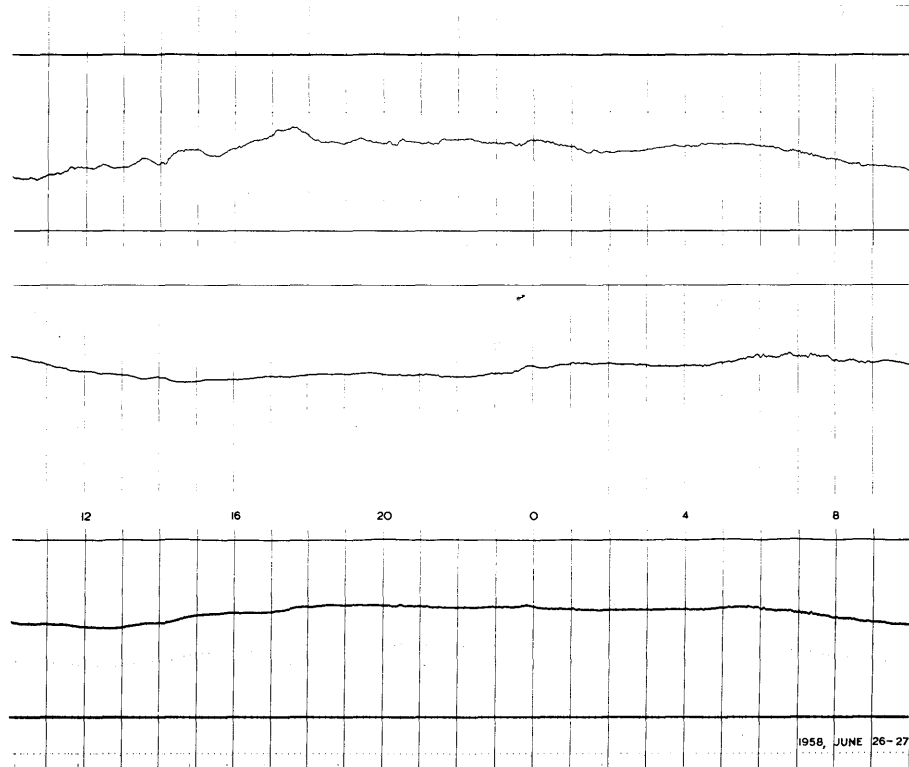


JUNE 24-25

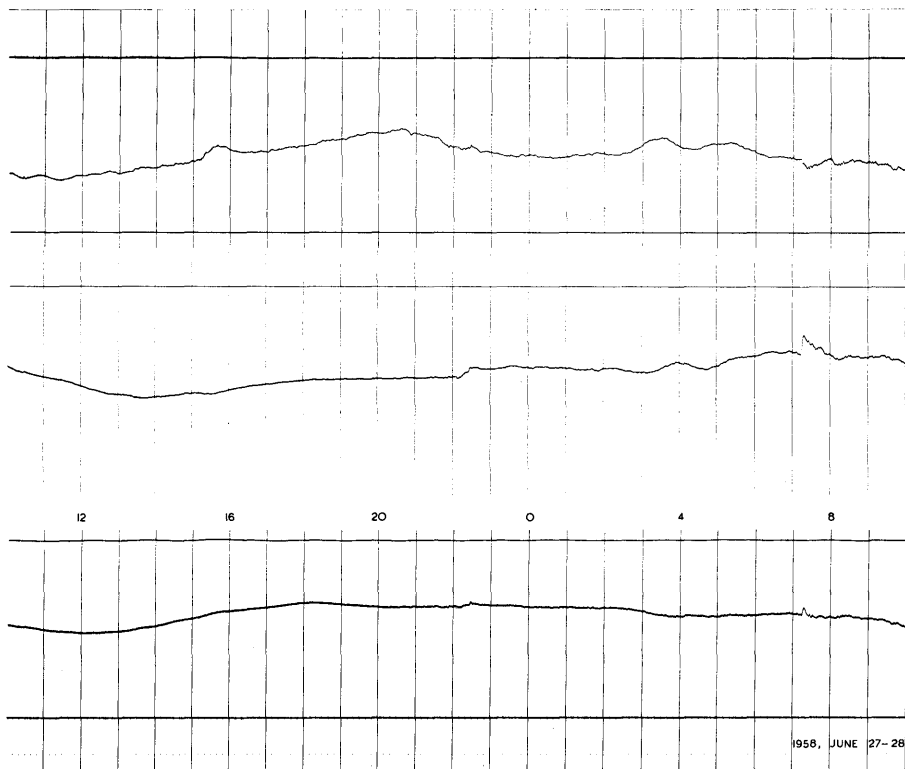
1958



JUNE 25-26

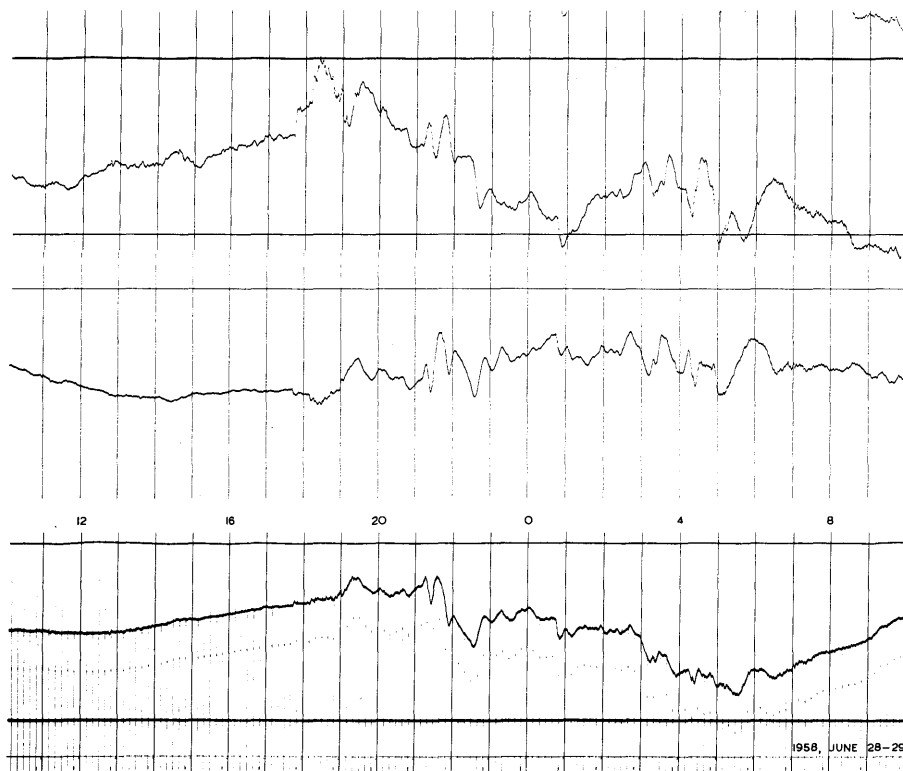


JUNE 26-27



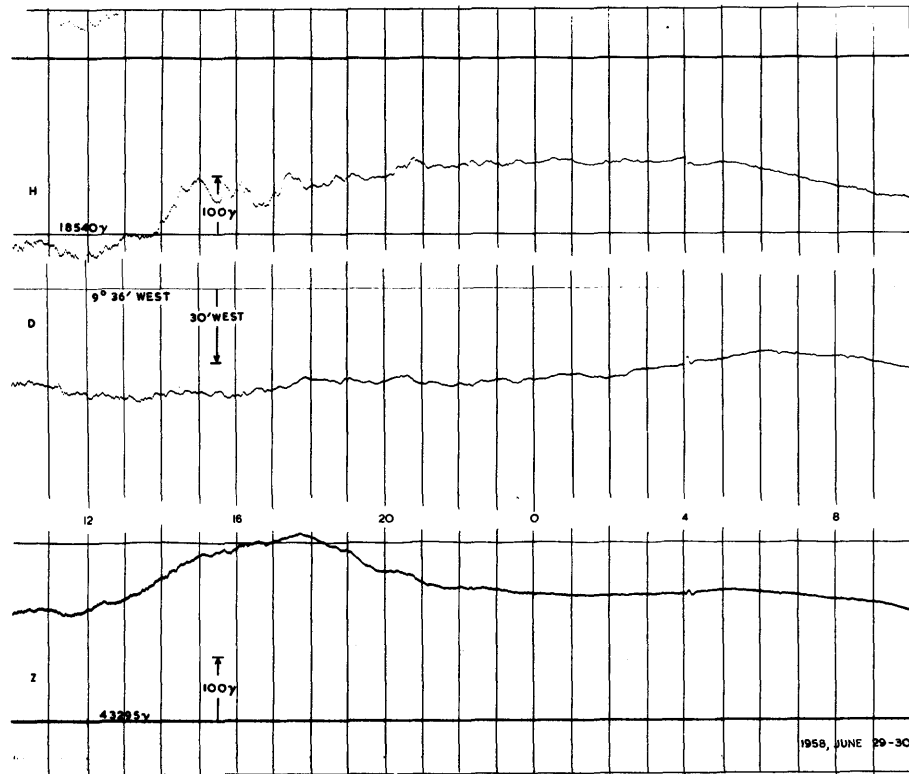
1958

JUNE 27-28

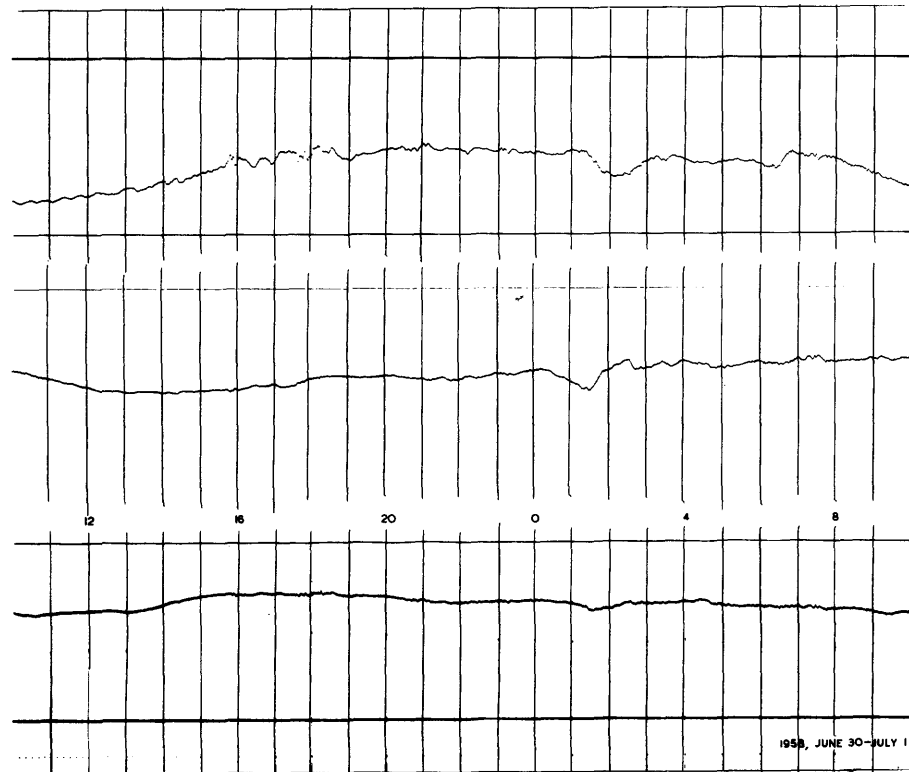


JUNE 28-29

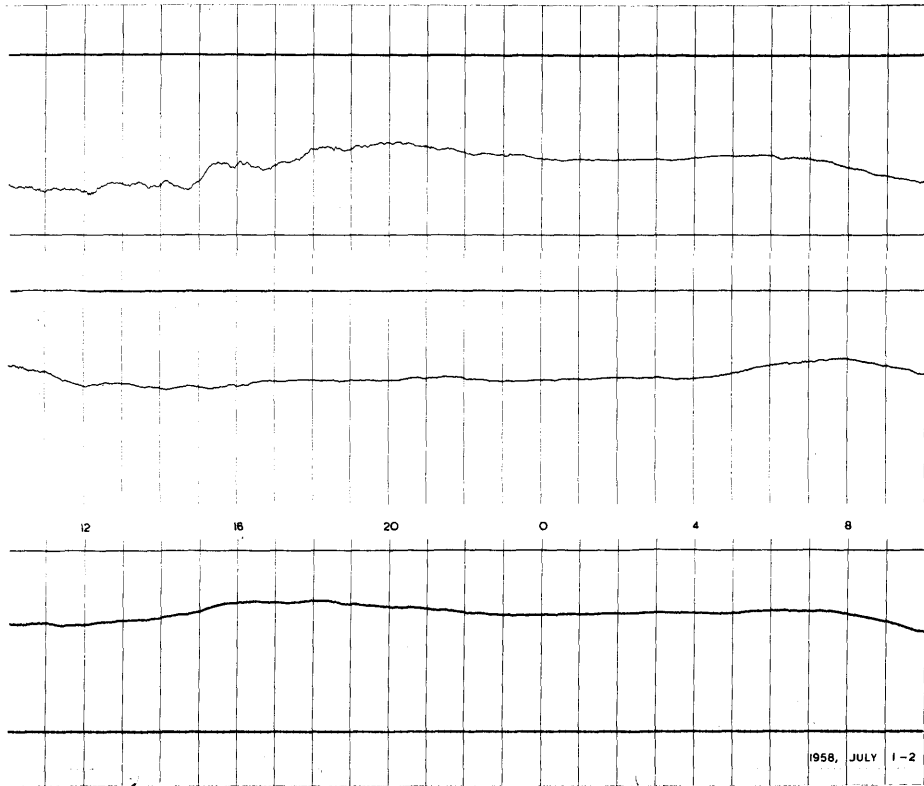
1958



JUNE 29-30

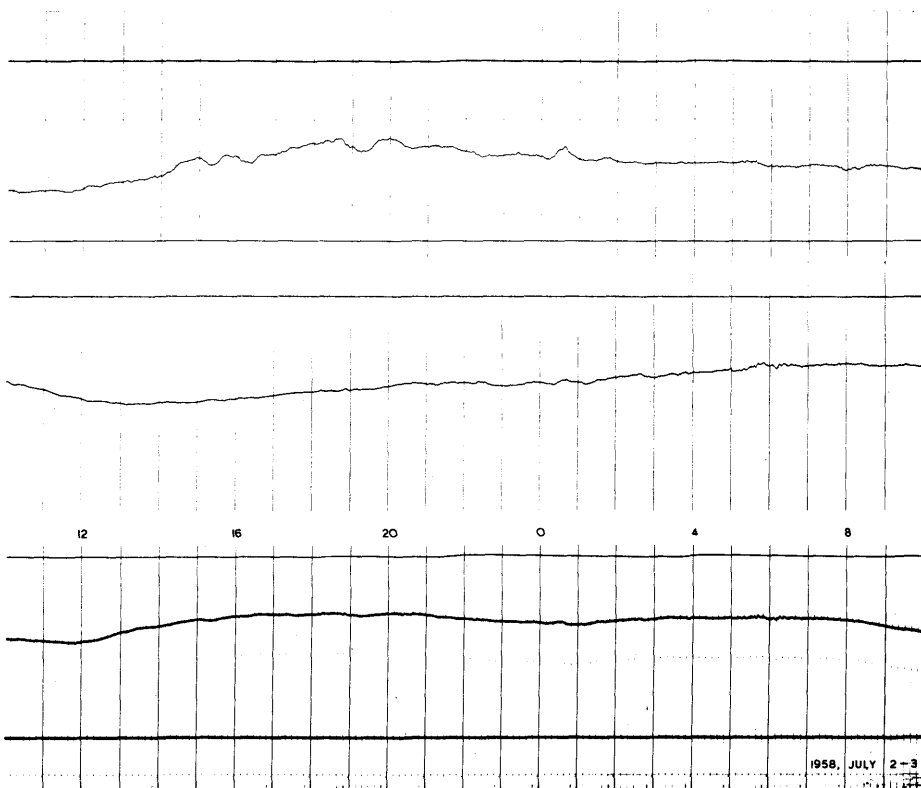


JUN. 30-JUL. 1



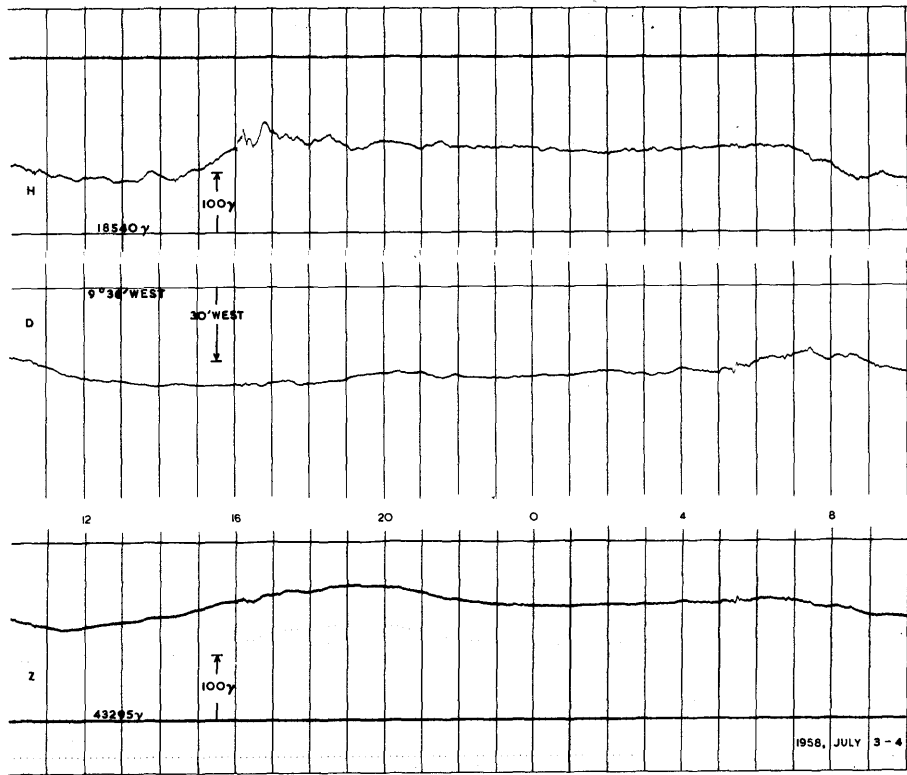
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JULY 1-2

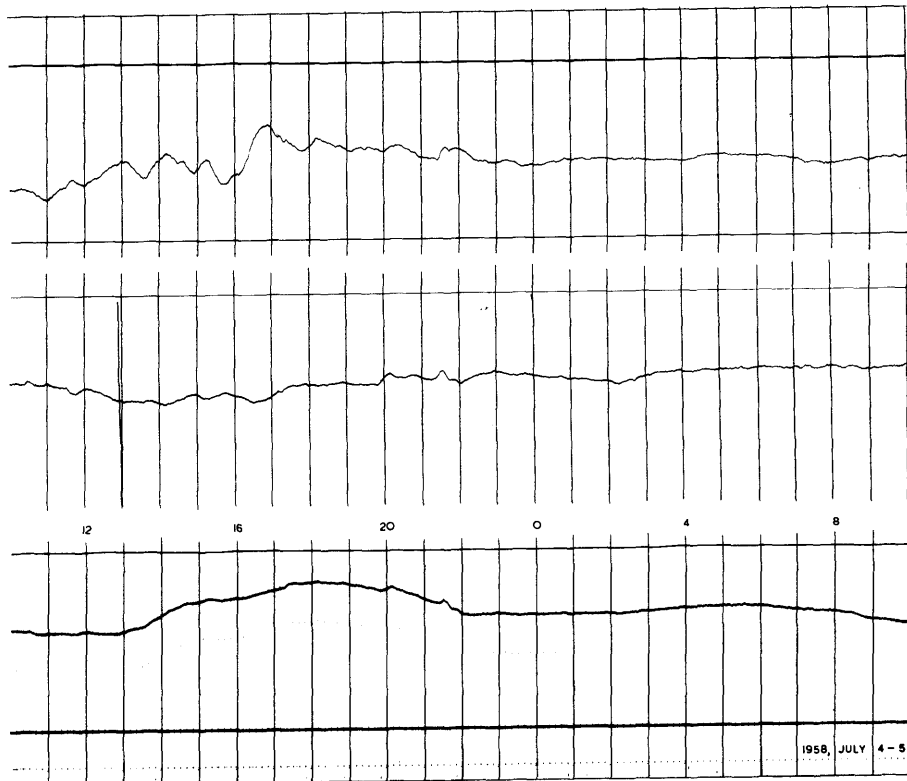


JULY 2-3

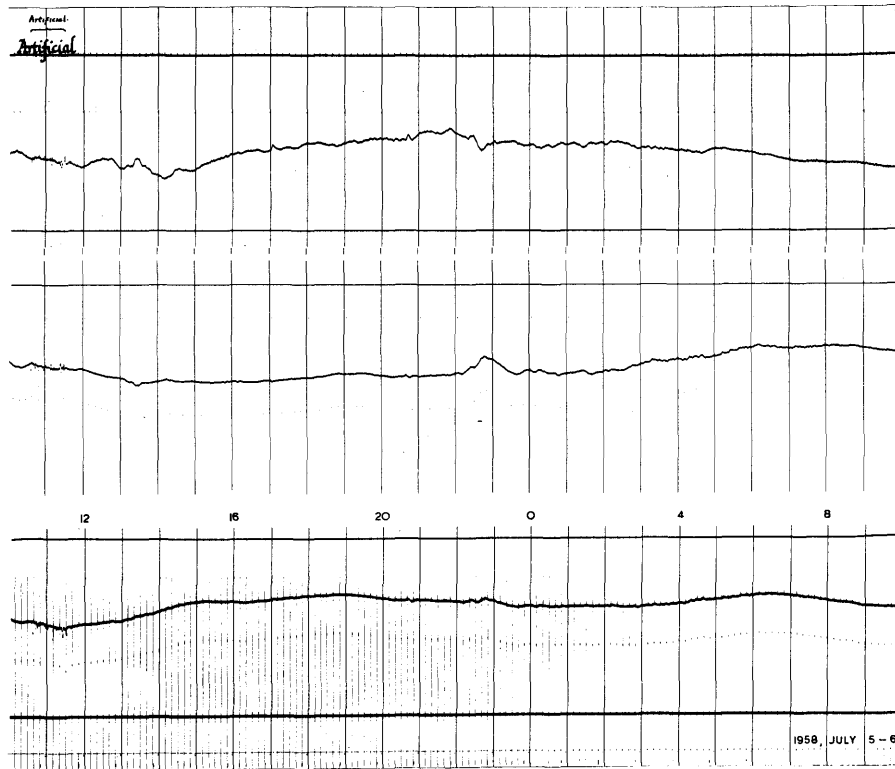
1958



JULY 3-4

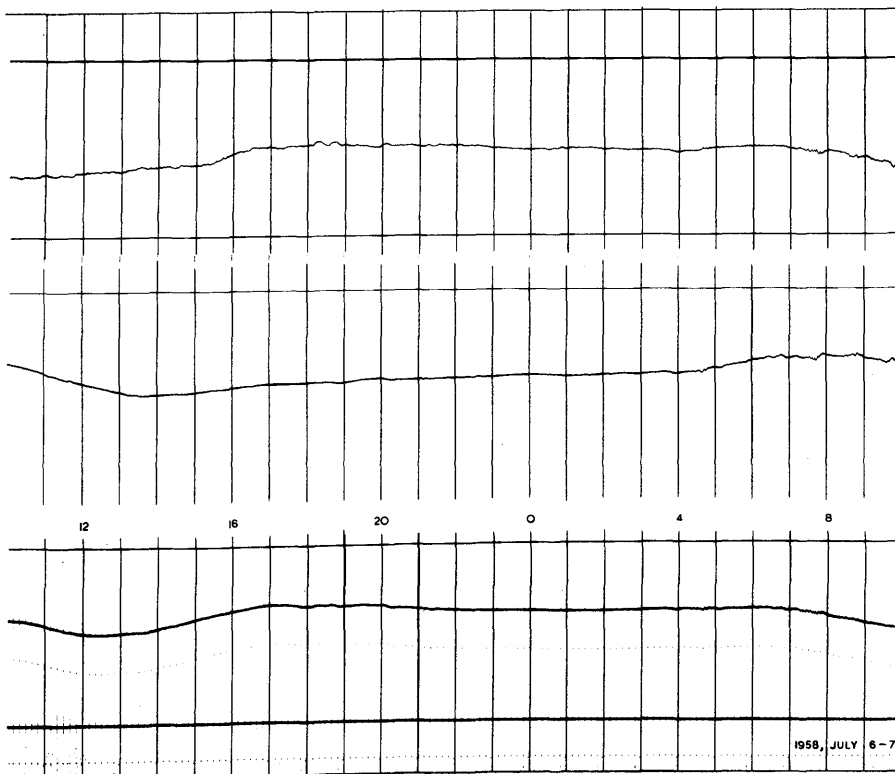


JULY 4-5



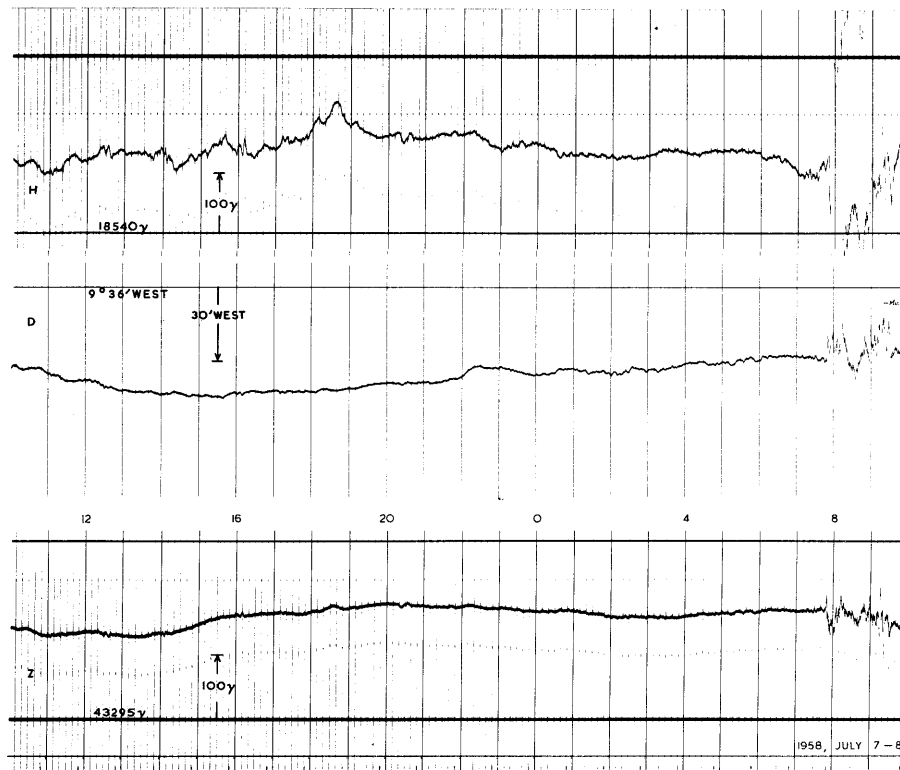
1958

JULY 5-6

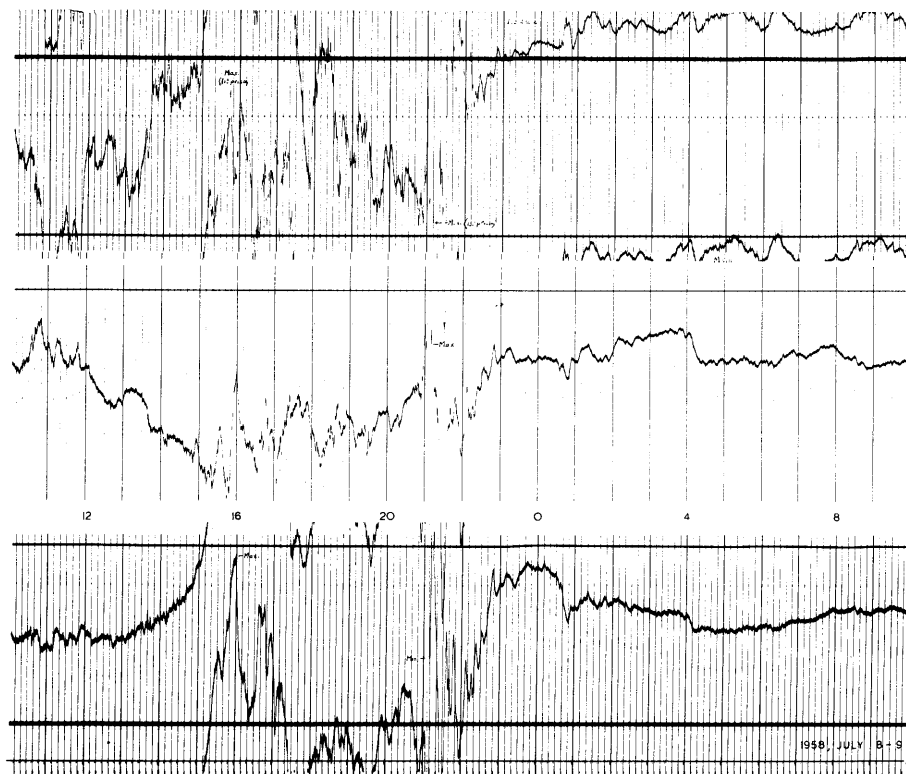


JULY 6-7

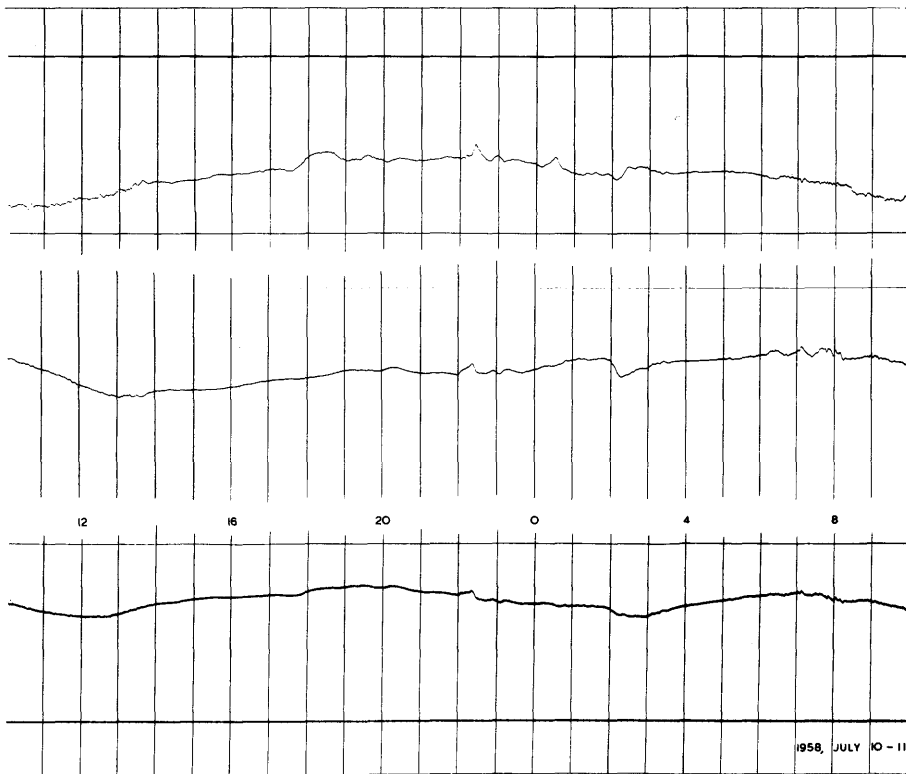
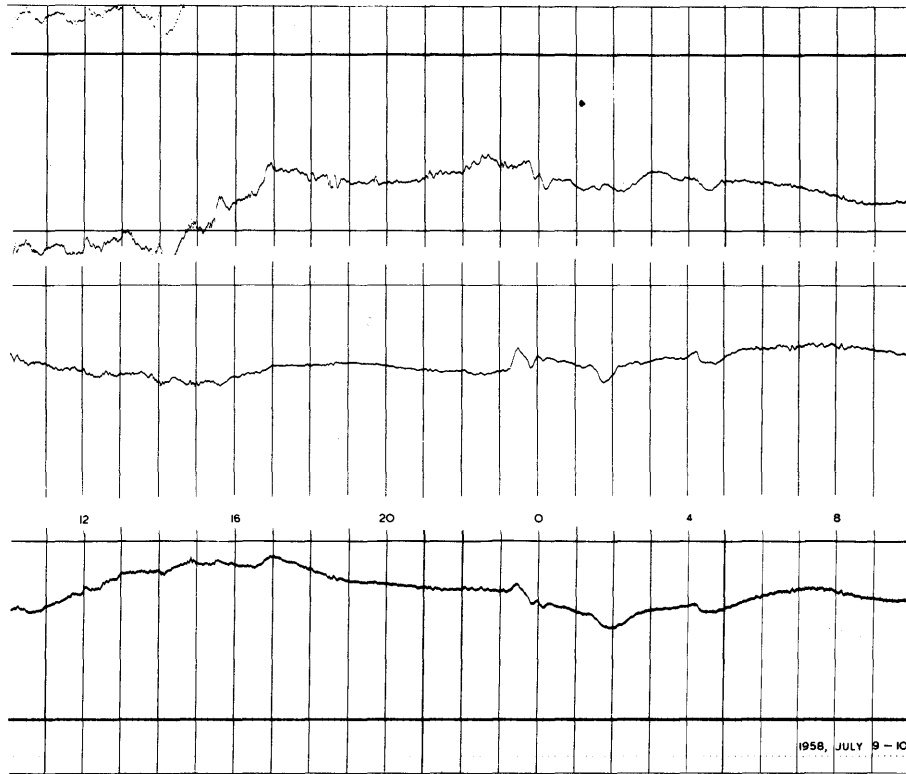
1958



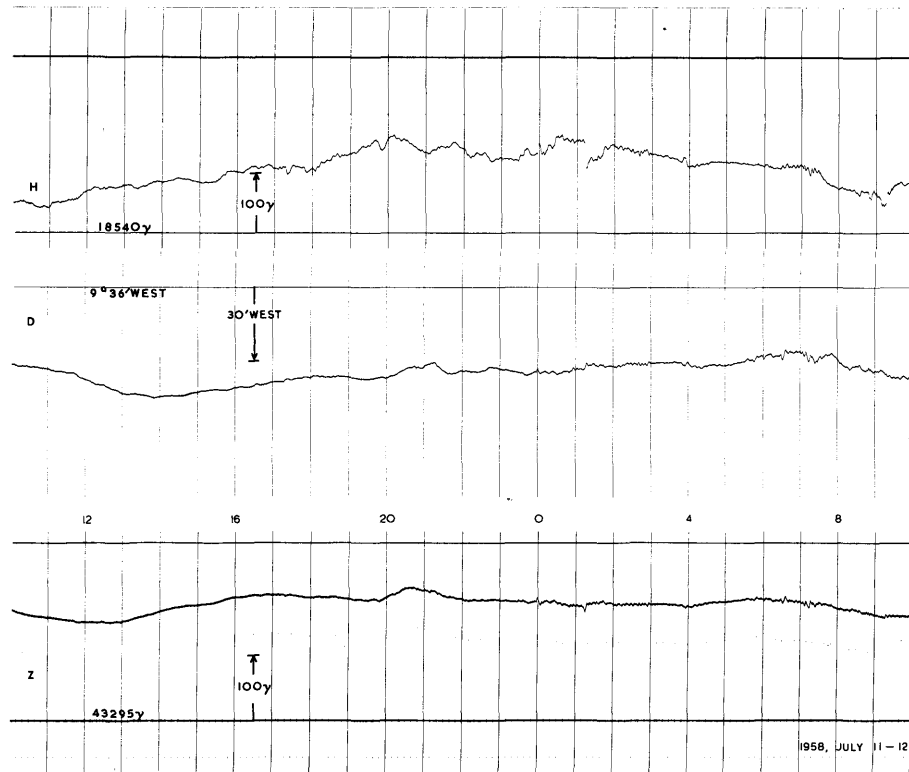
JULY 7-8



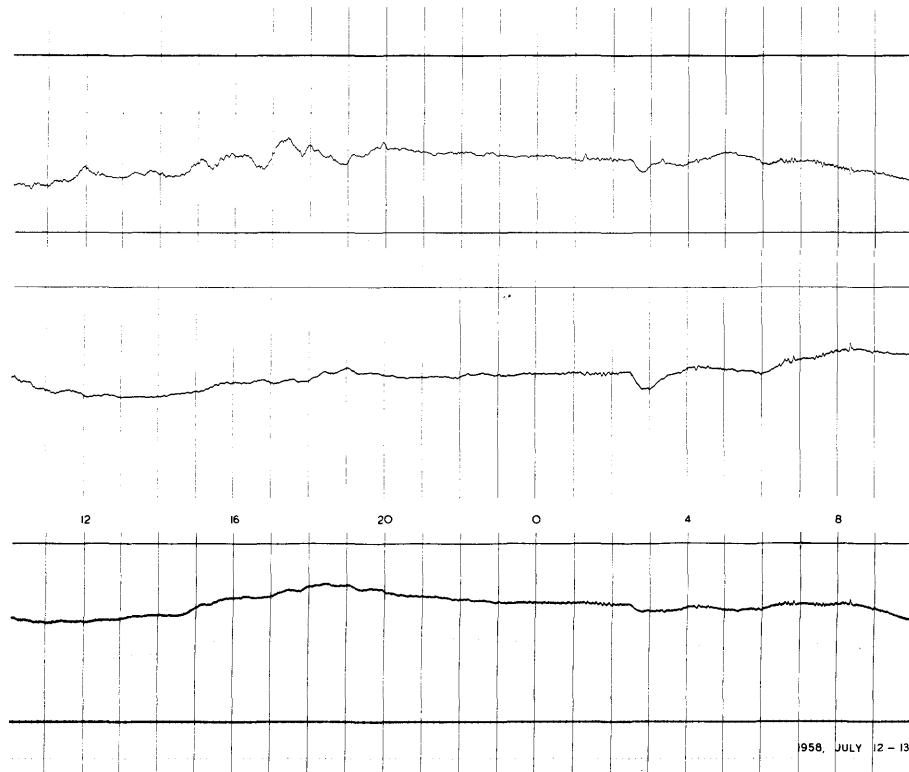
JULY 8-9



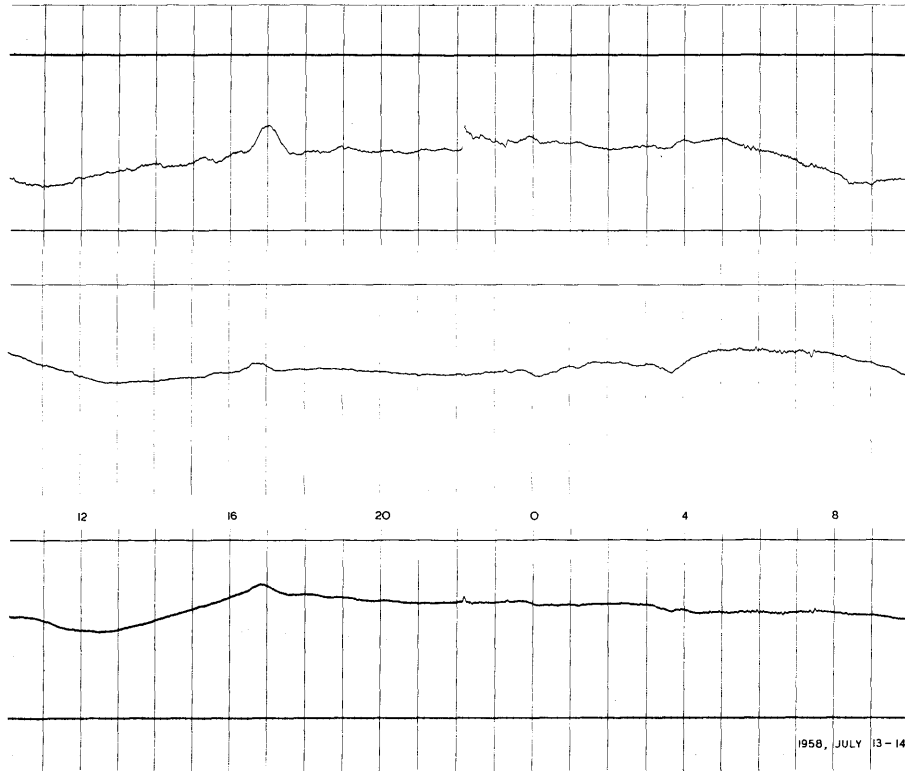
1958



JULY 11-12

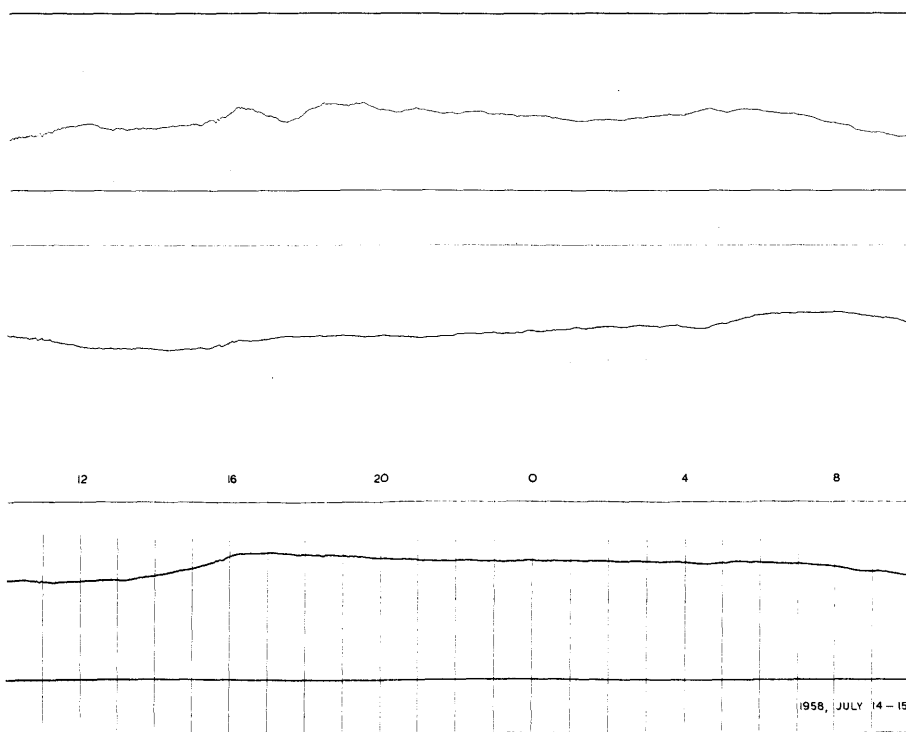


JULY 12-13



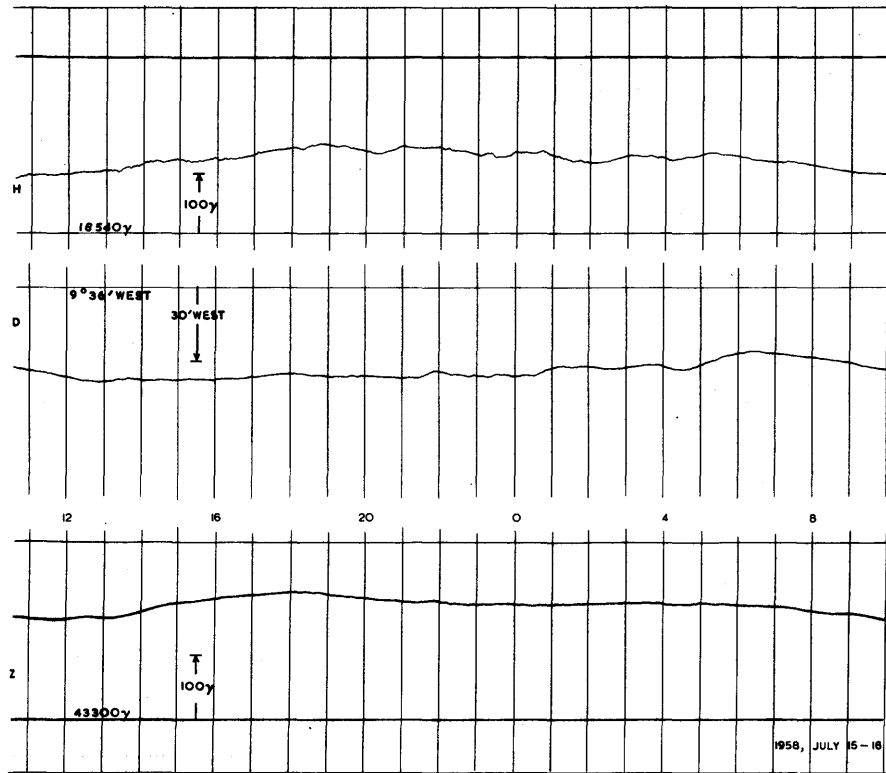
1958

JULY 13-14



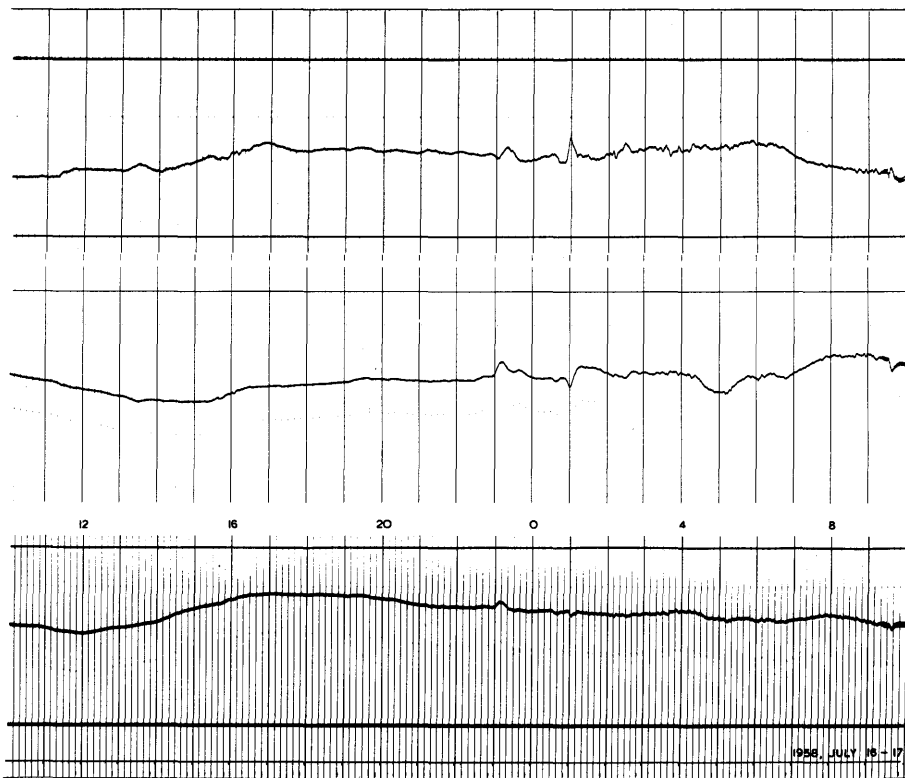
JULY 14-15

1958



JULY 15-16

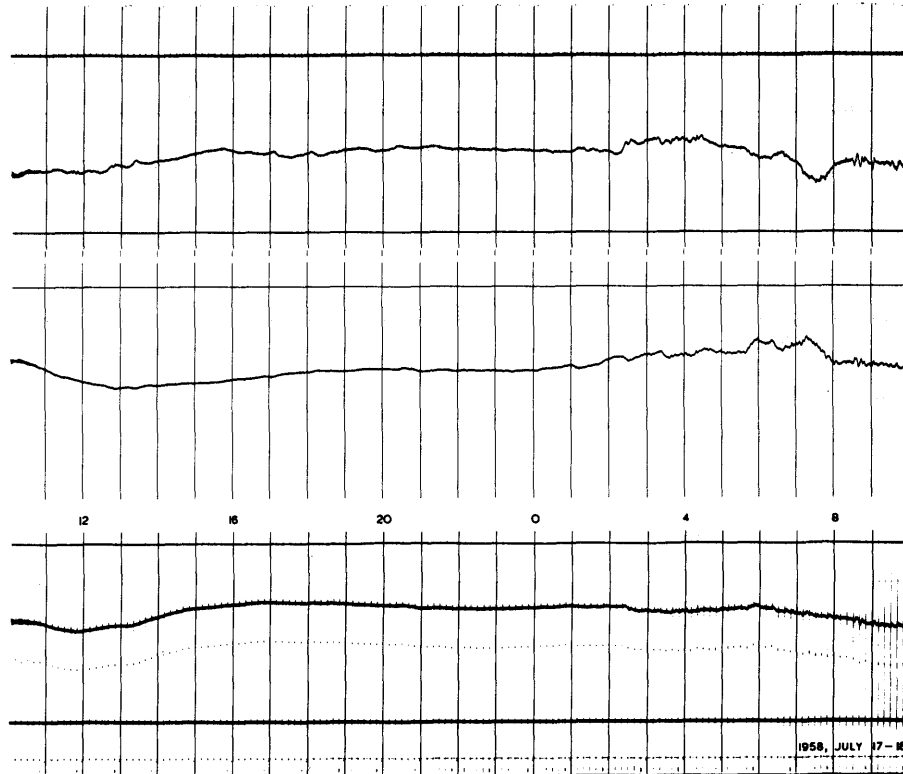
1958, JULY 15-16



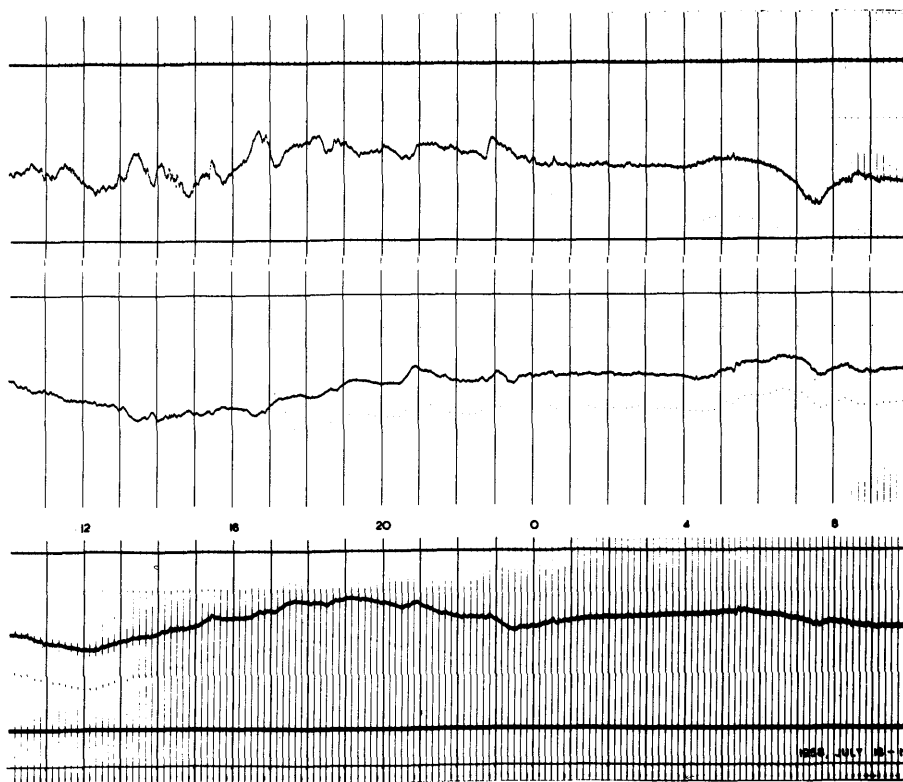
JULY 16-17

1958, JULY 16-17

1958

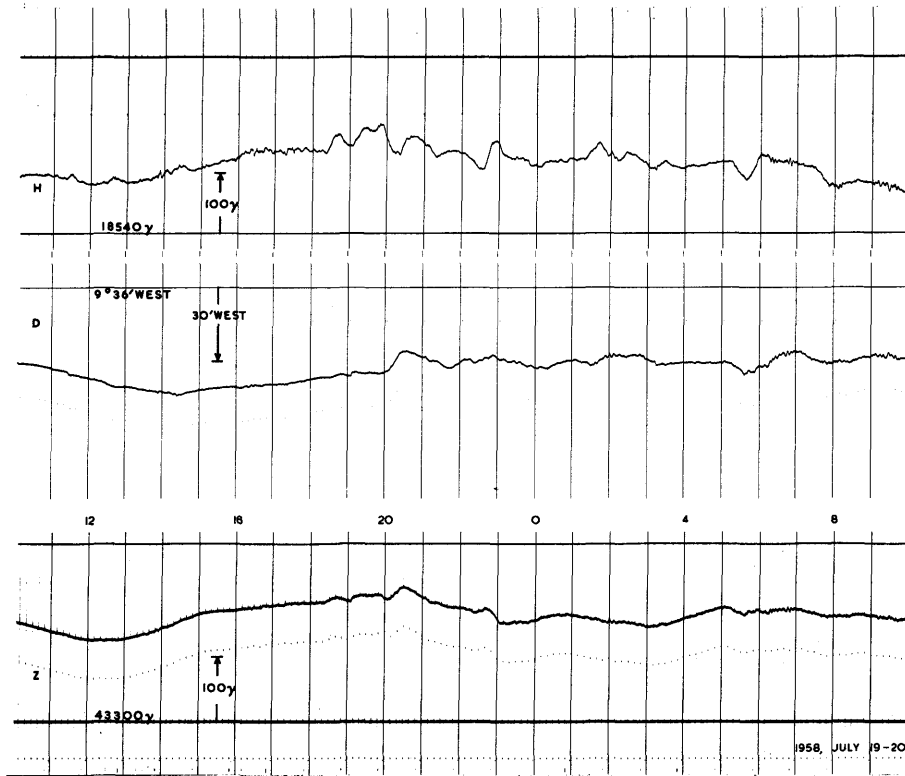


JULY 17-18

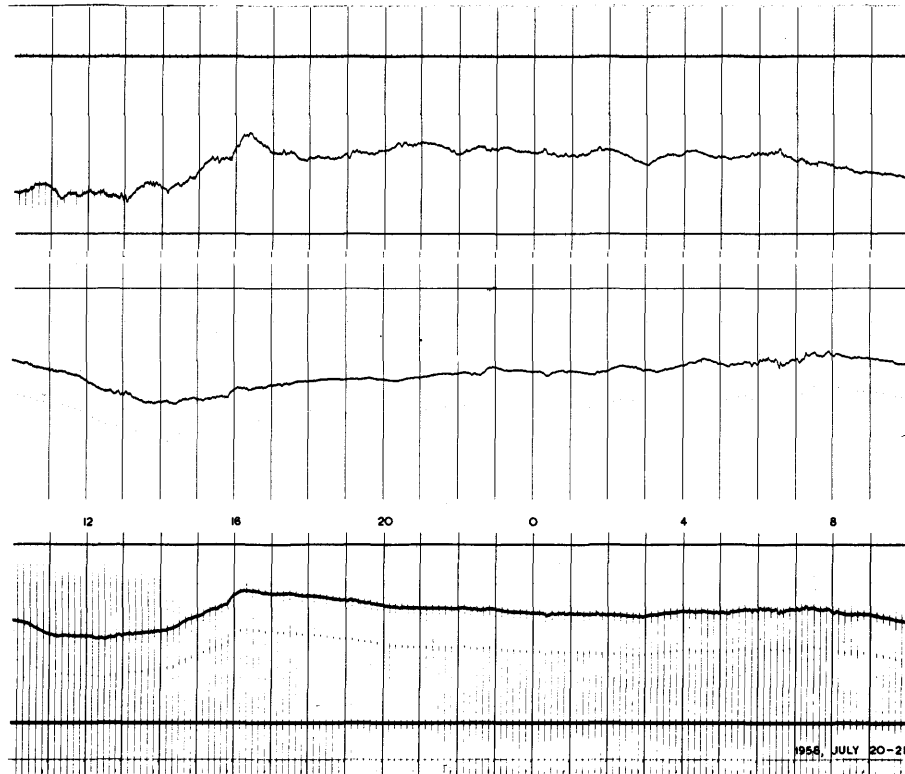


JULY 18-19

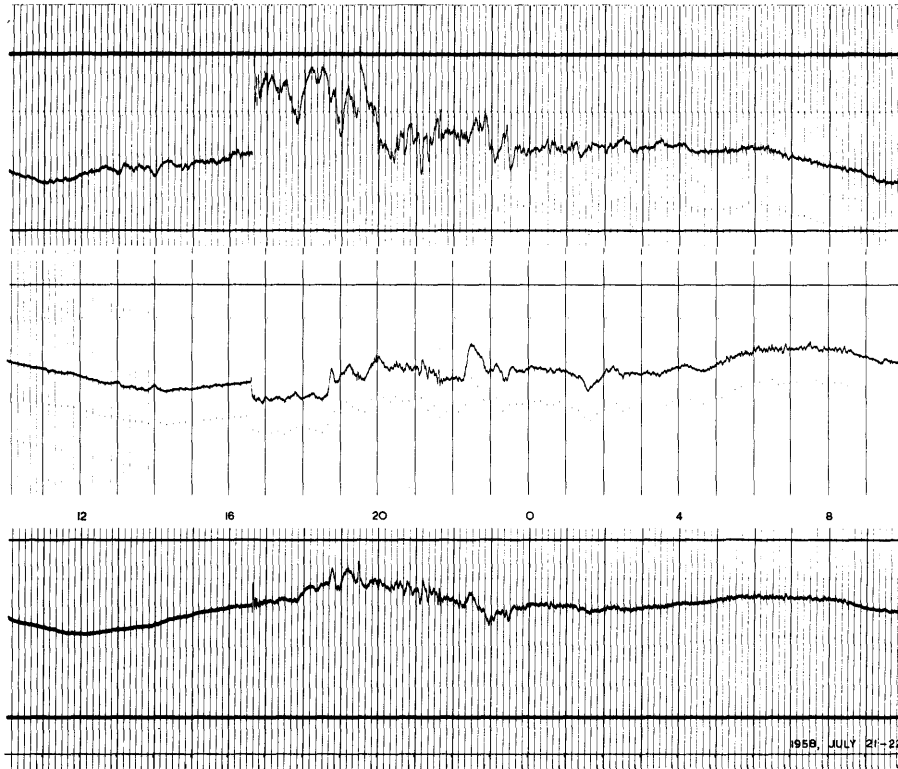
1958



JULY 19-20

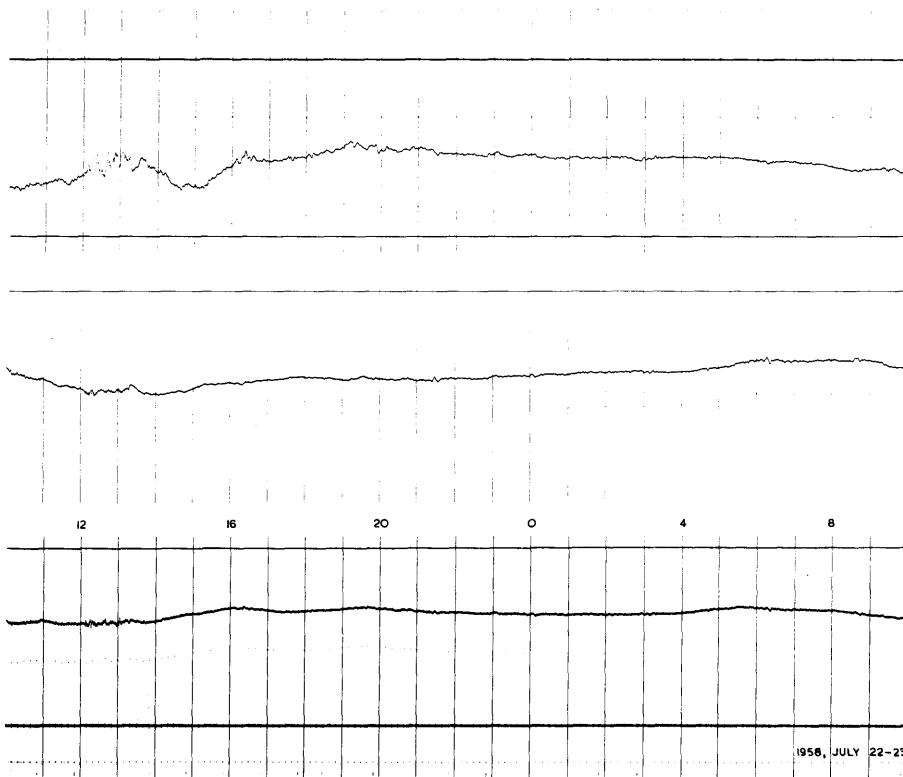


JULY 20-21



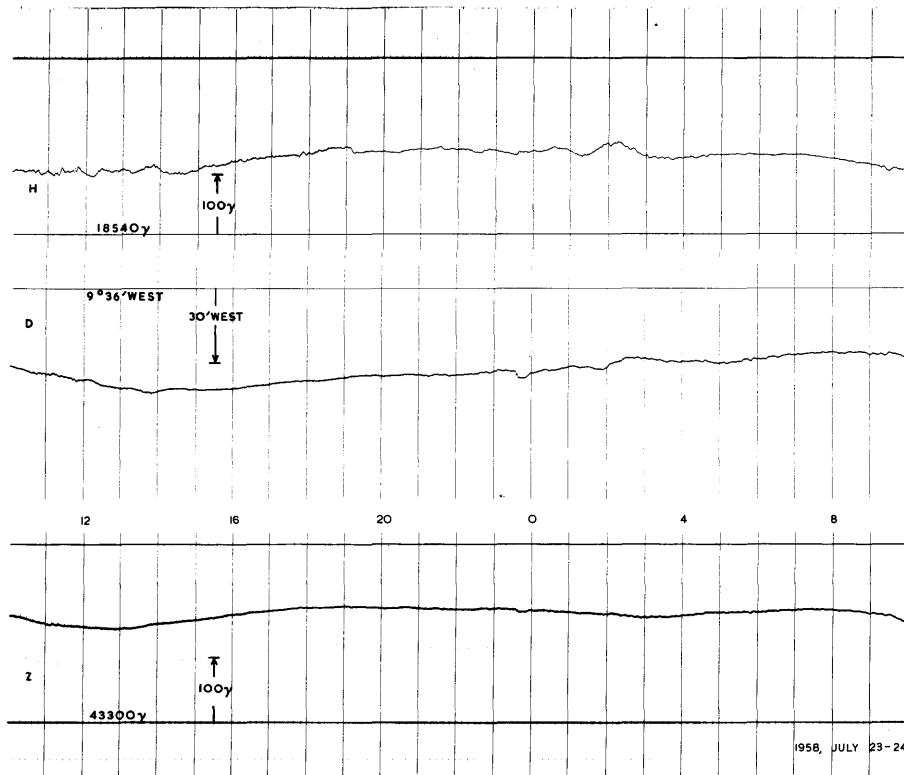
1958

JULY 21-22

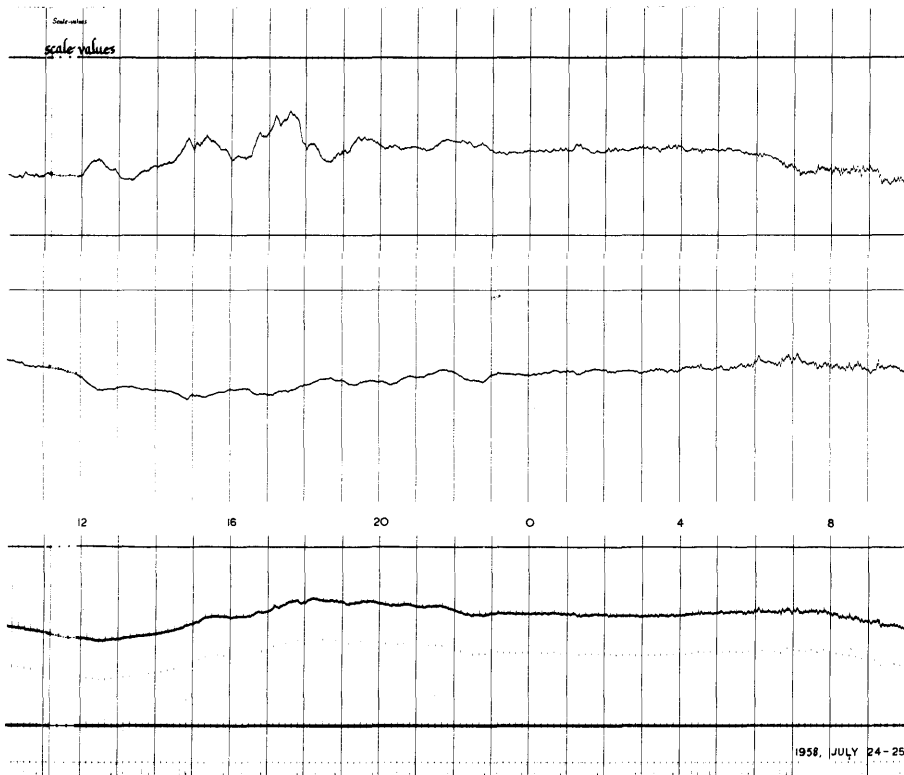


JULY 22-23

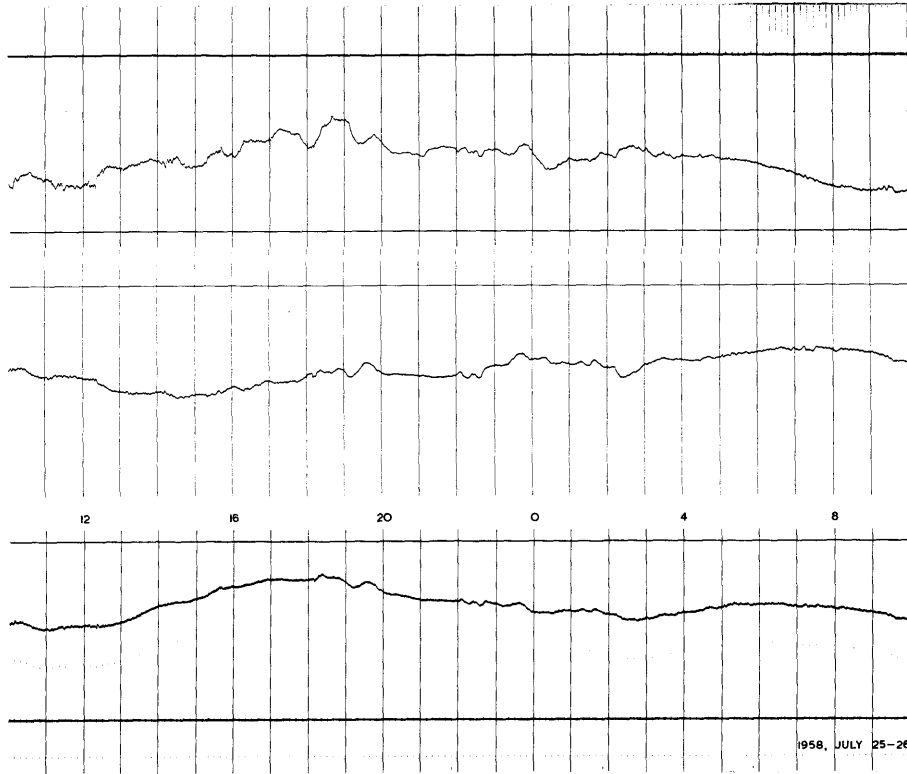
1958



JULY 23-24

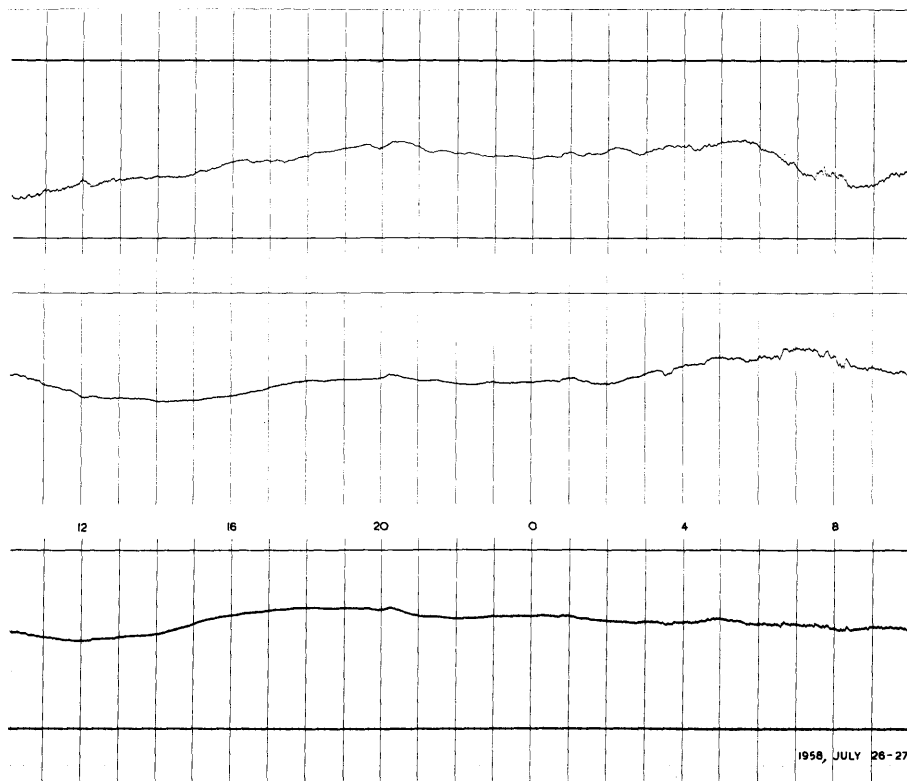


JULY 24-25



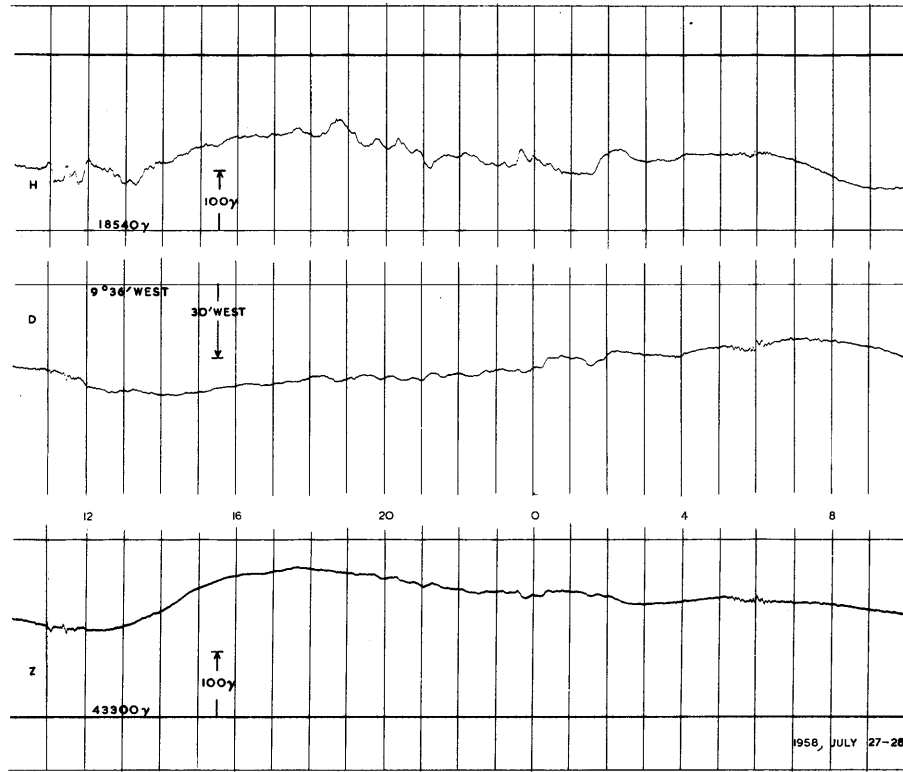
1958

JULY 25-26

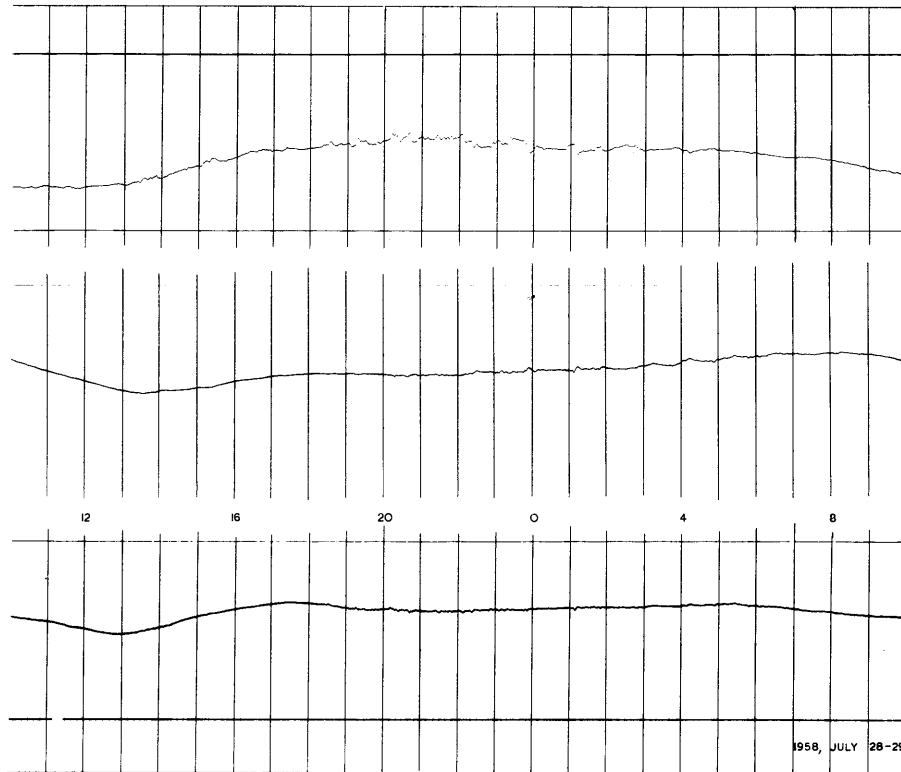


JULY 26-27

1958

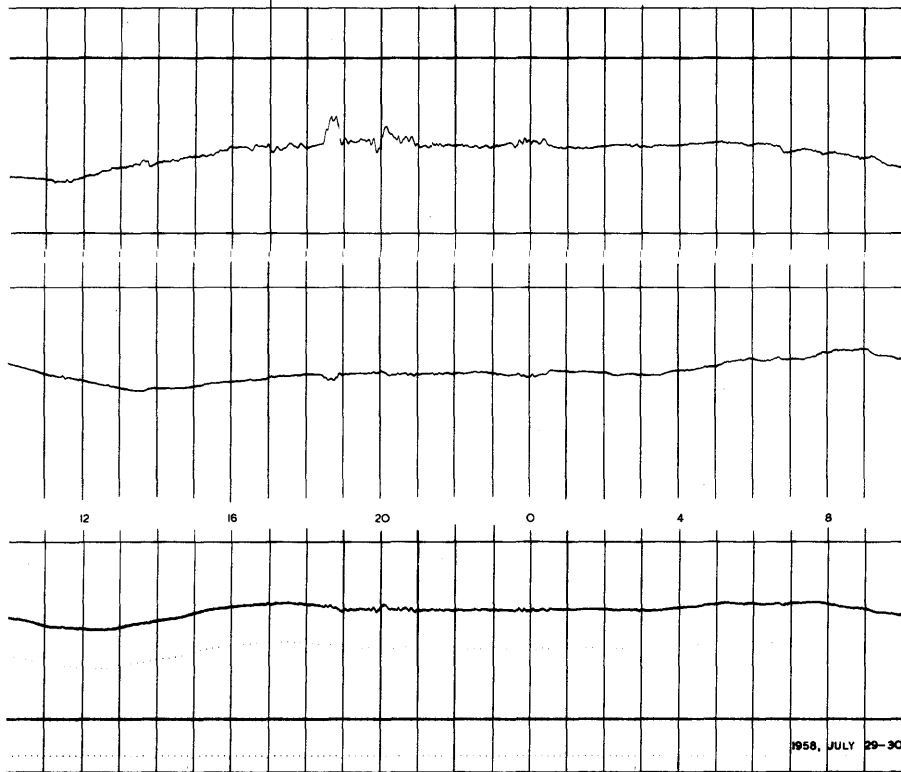


JULY 27-28

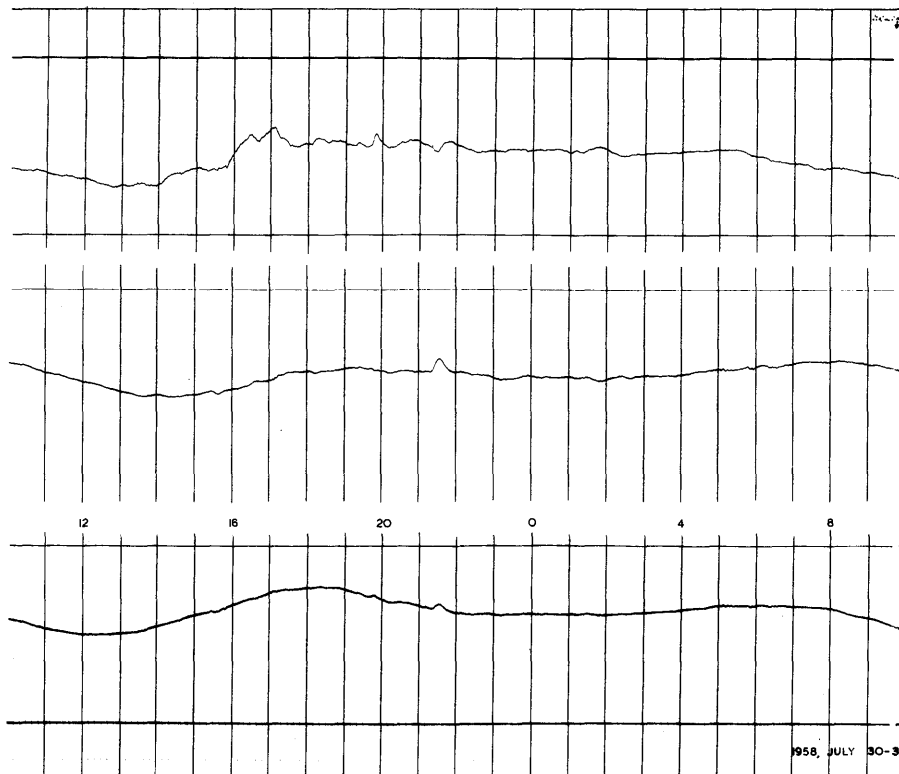


JULY 28-29

1958

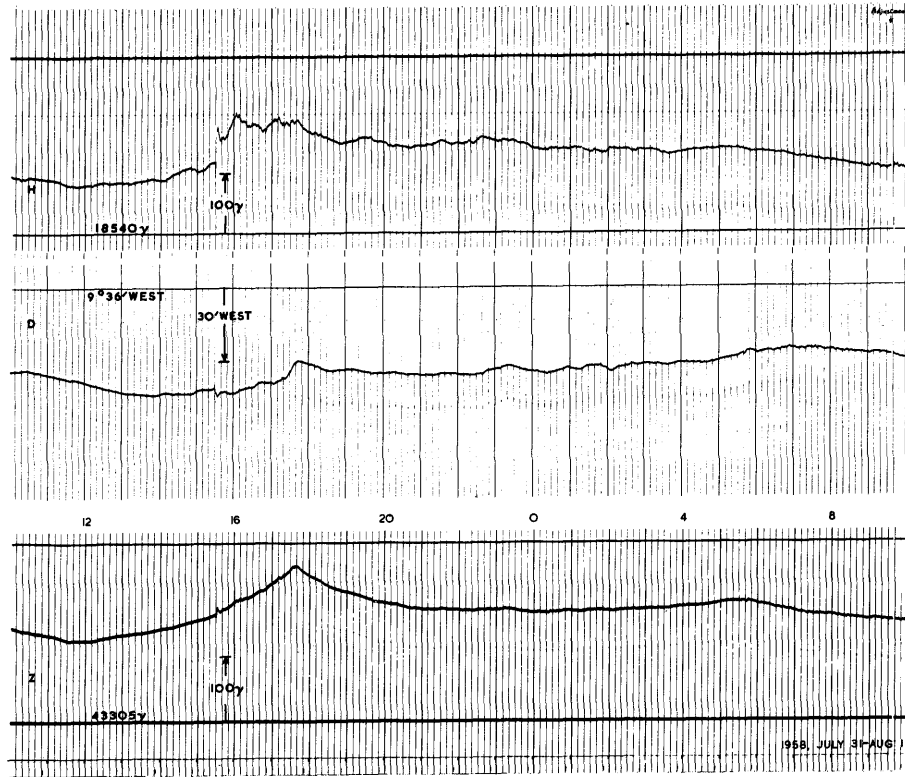


JULY 29-30

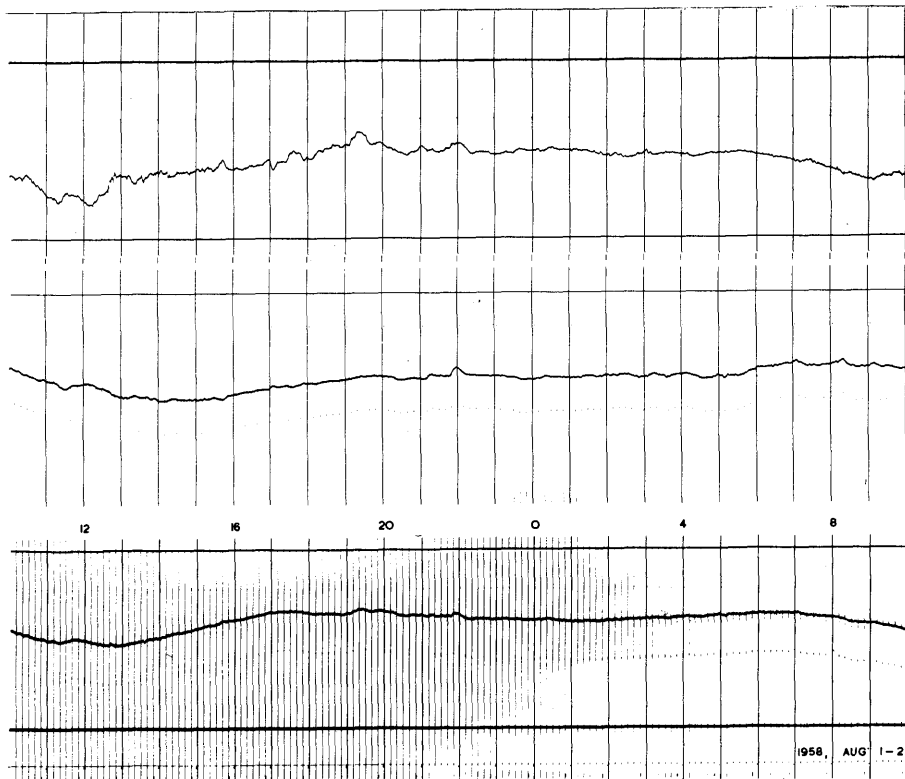


JULY 30-31

1958



JUL. 31-AUG. 1

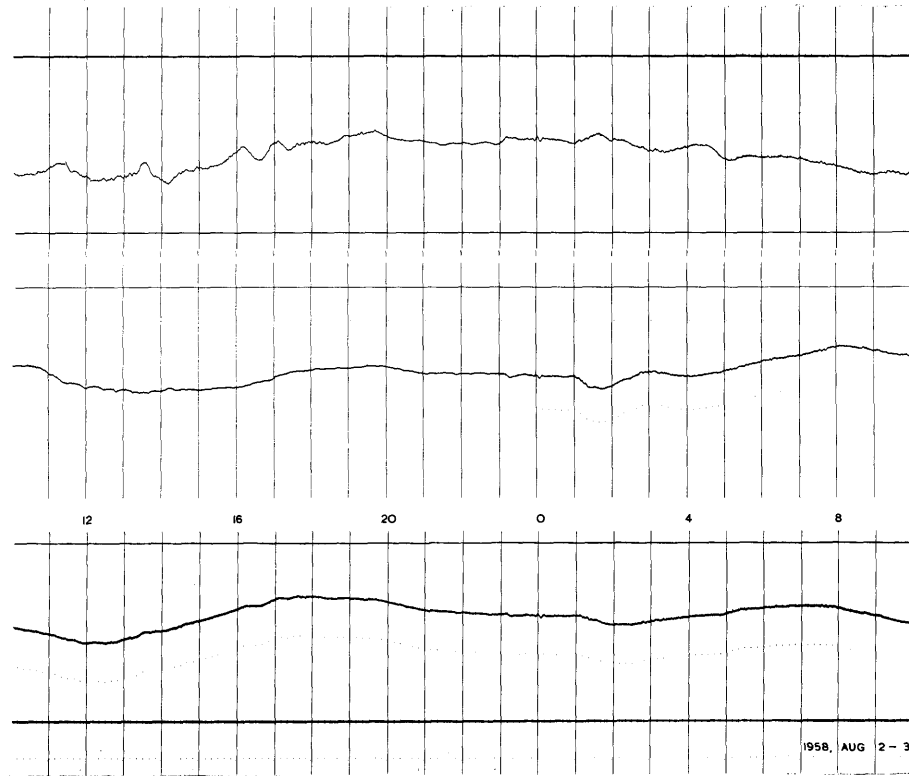


AUGUST 1-2

1965]

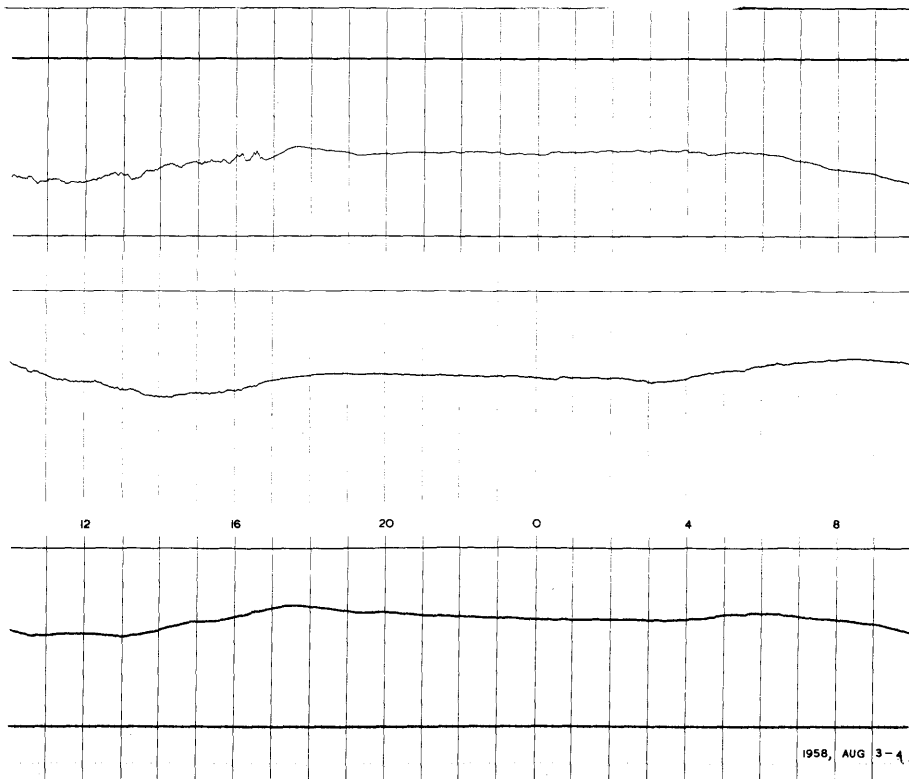
MAGNETIC RESULTS 1958 (HARTLAND)

D167



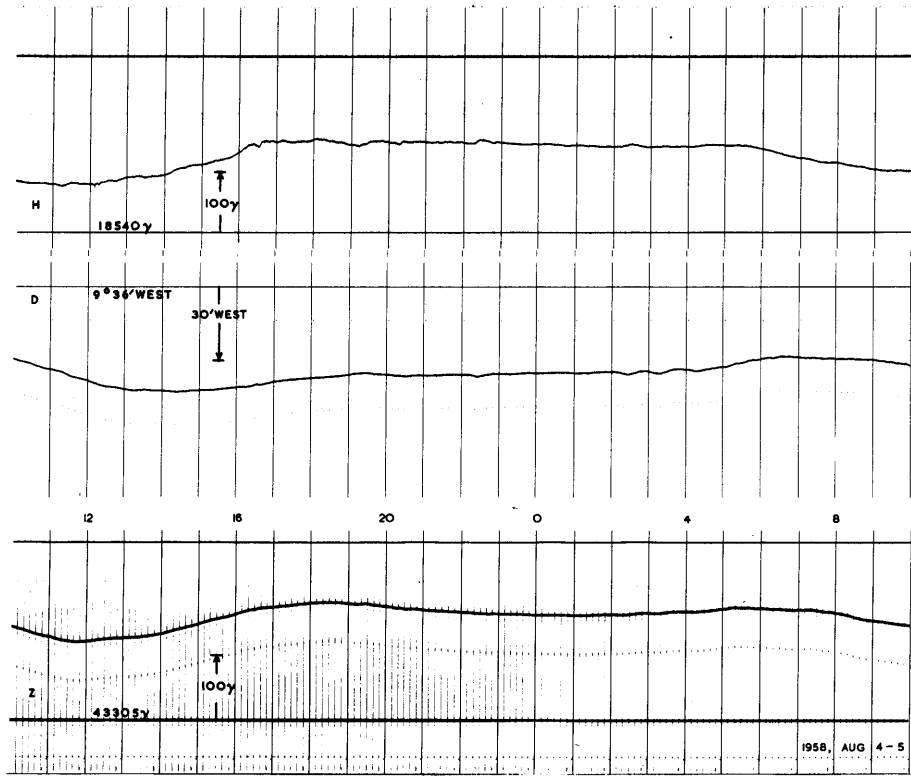
1958

AUGUST 2-3

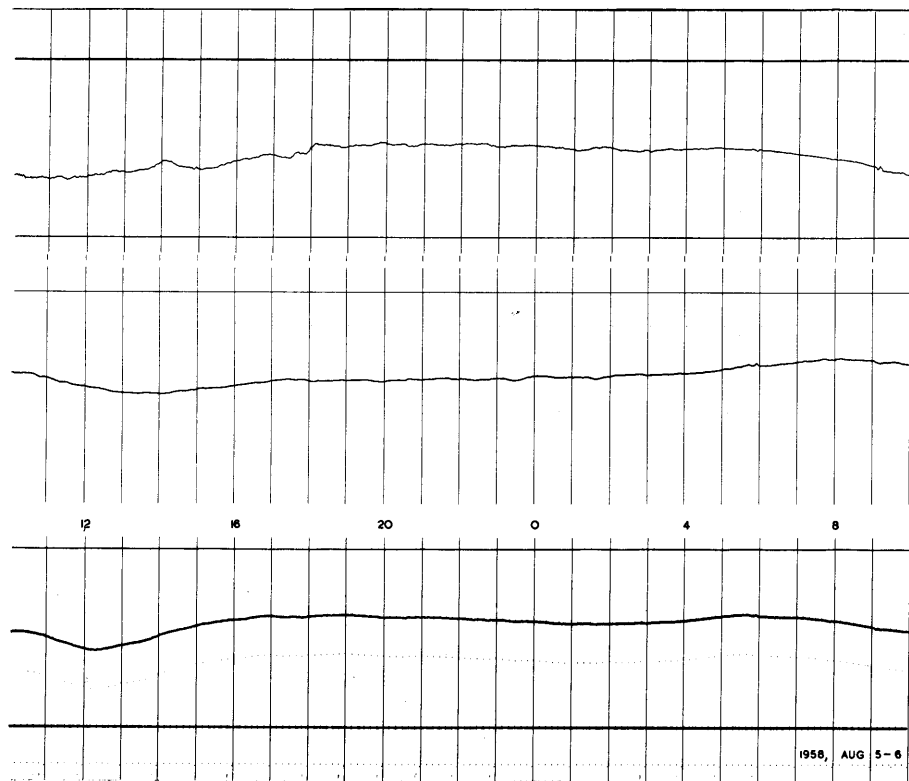


AUGUST 3-4

1958

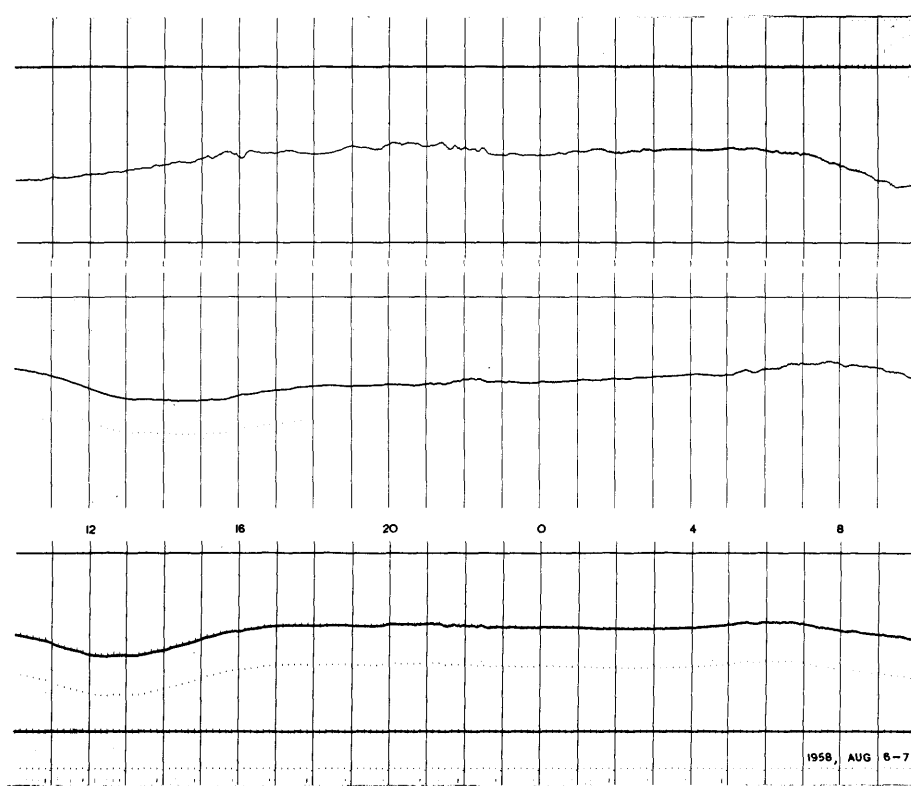


AUGUST 4-5

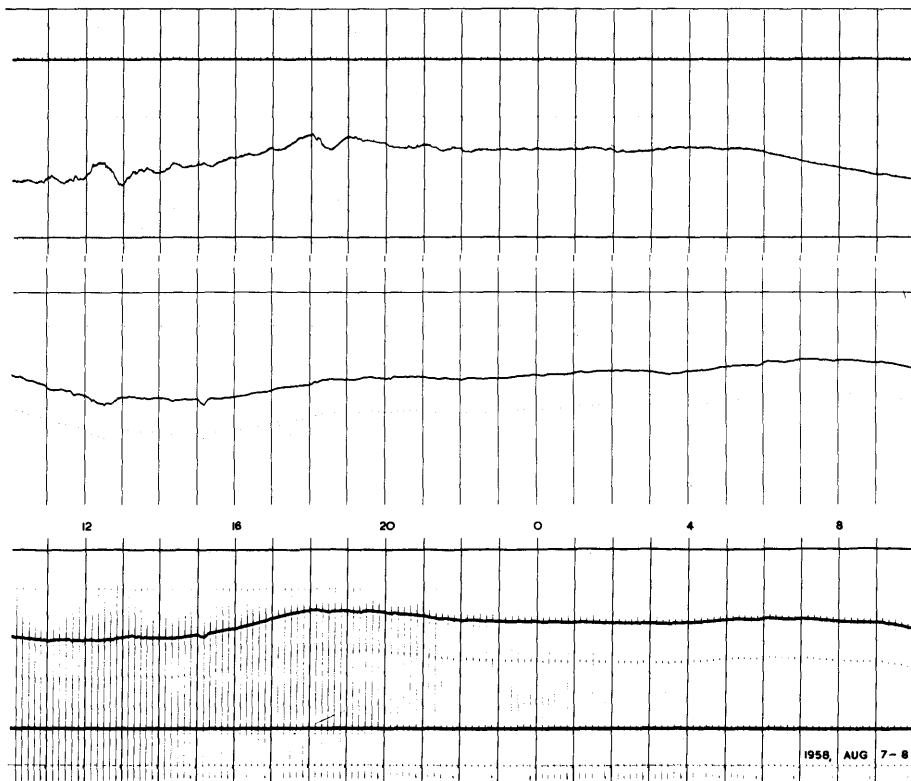


AUGUST 5-6

1958

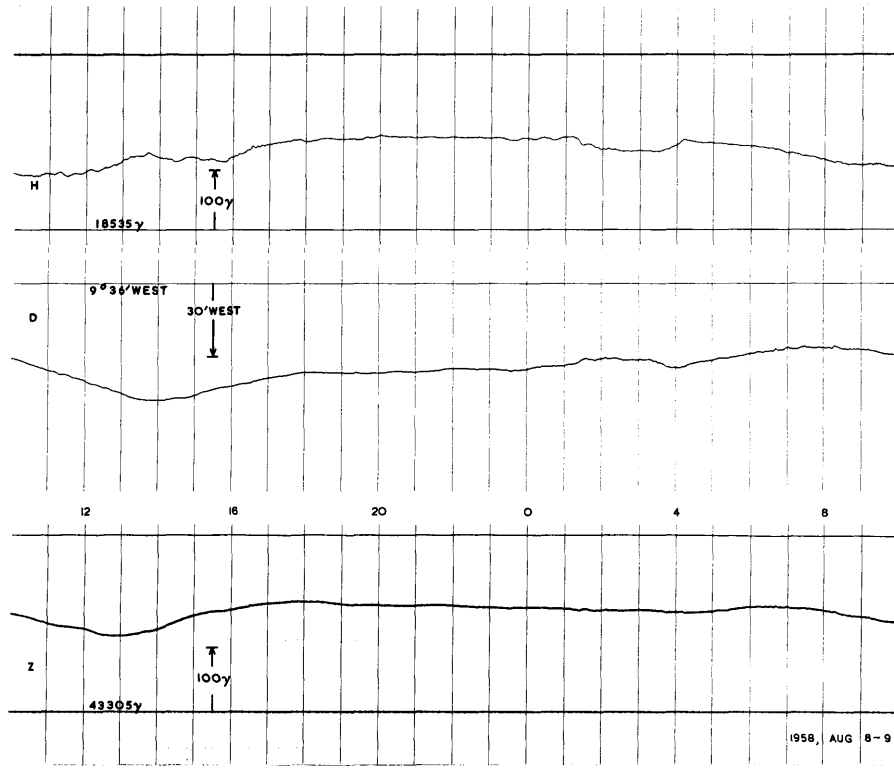


AUGUST 6-7

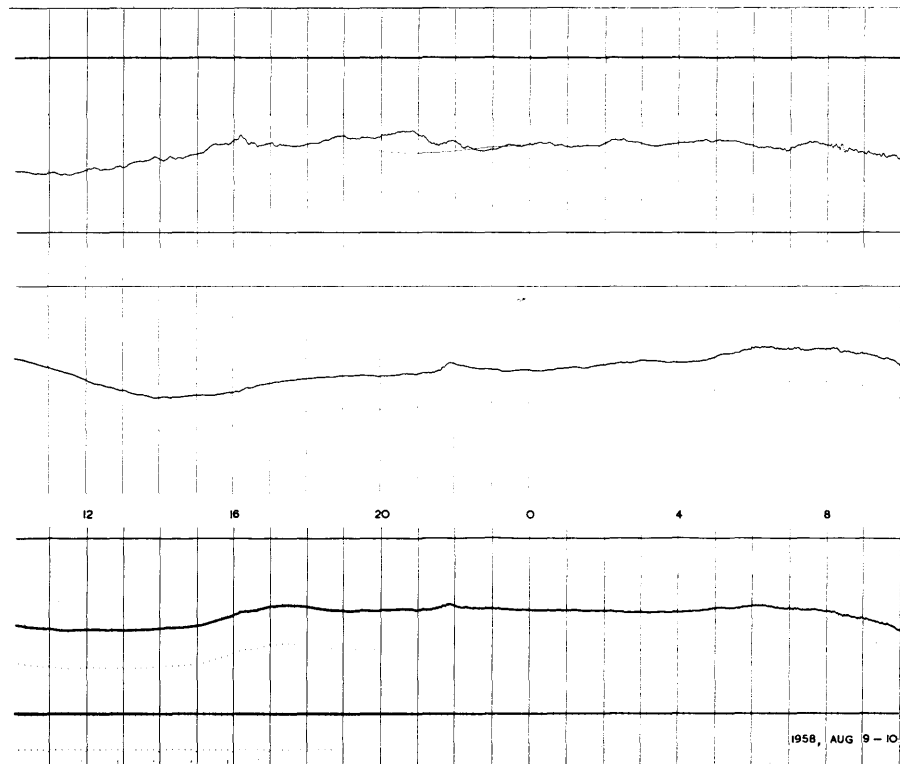


AUGUST 7-8

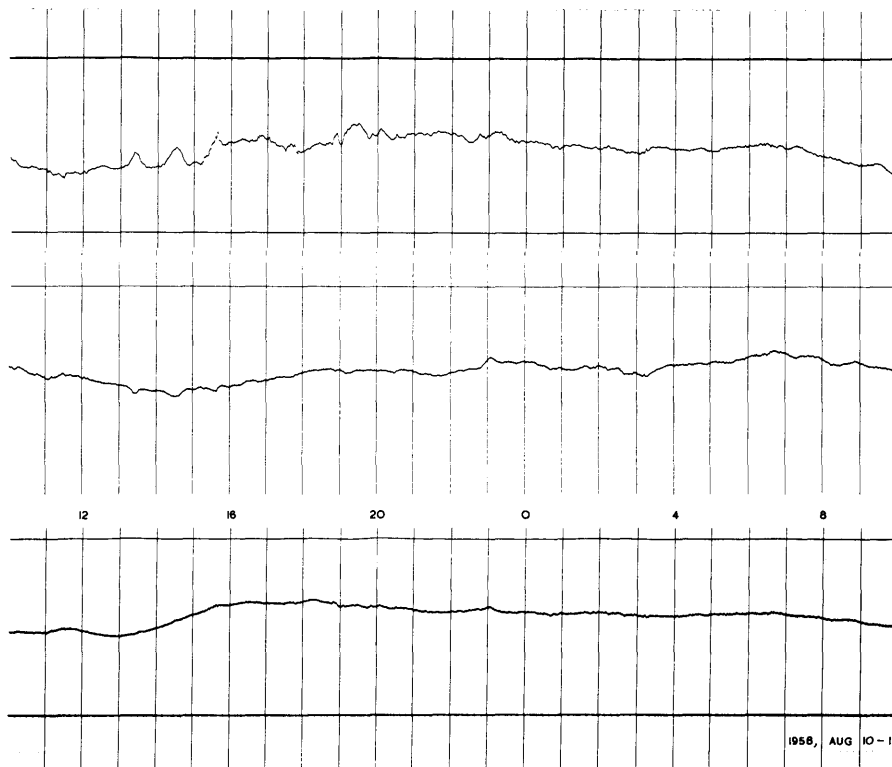
1958



AUGUST 8-9

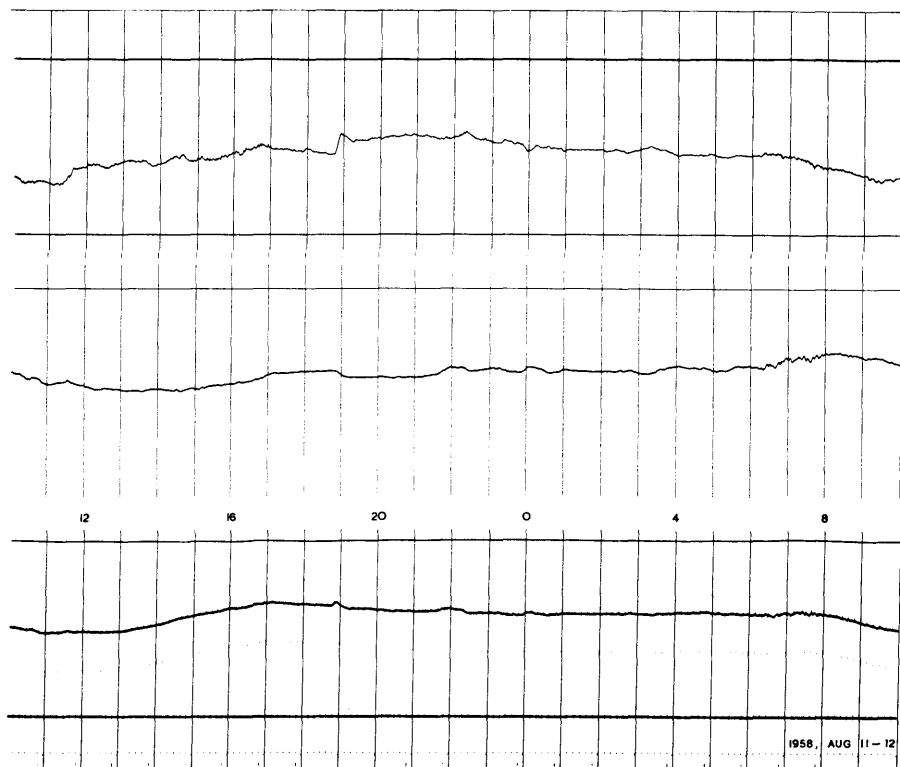


AUGUST 9-10



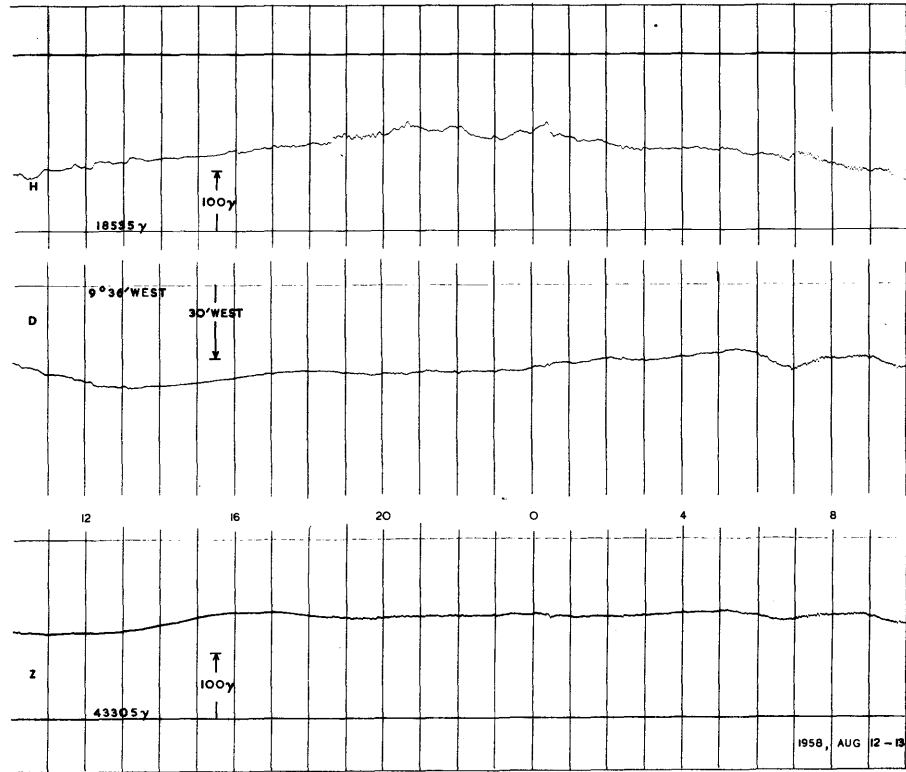
1958

AUGUST 10-11

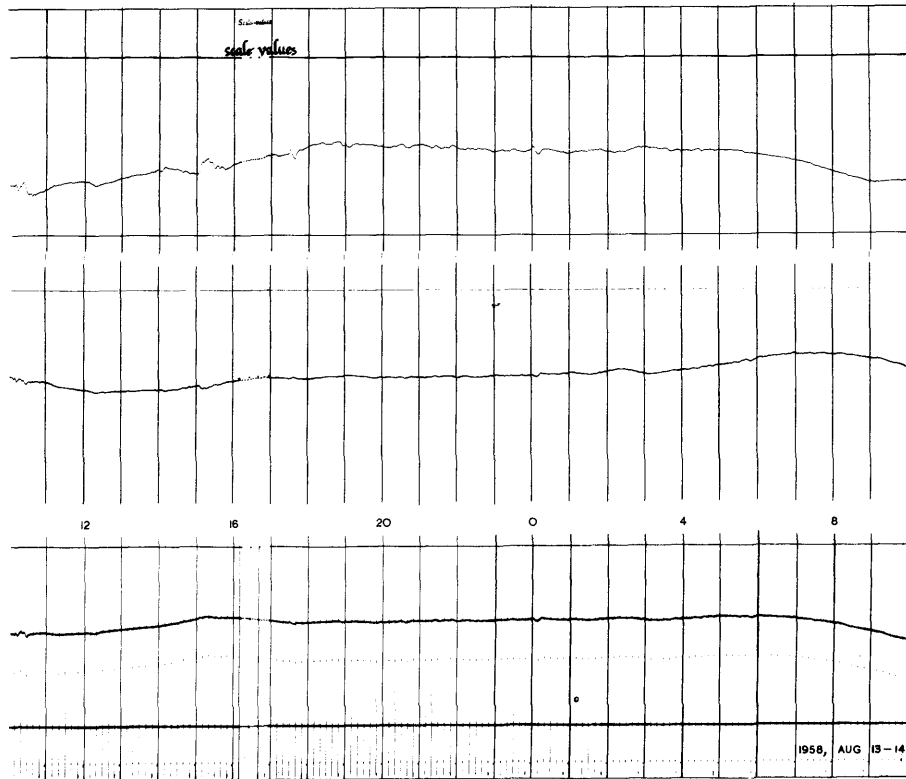


AUGUST 11-12

1958

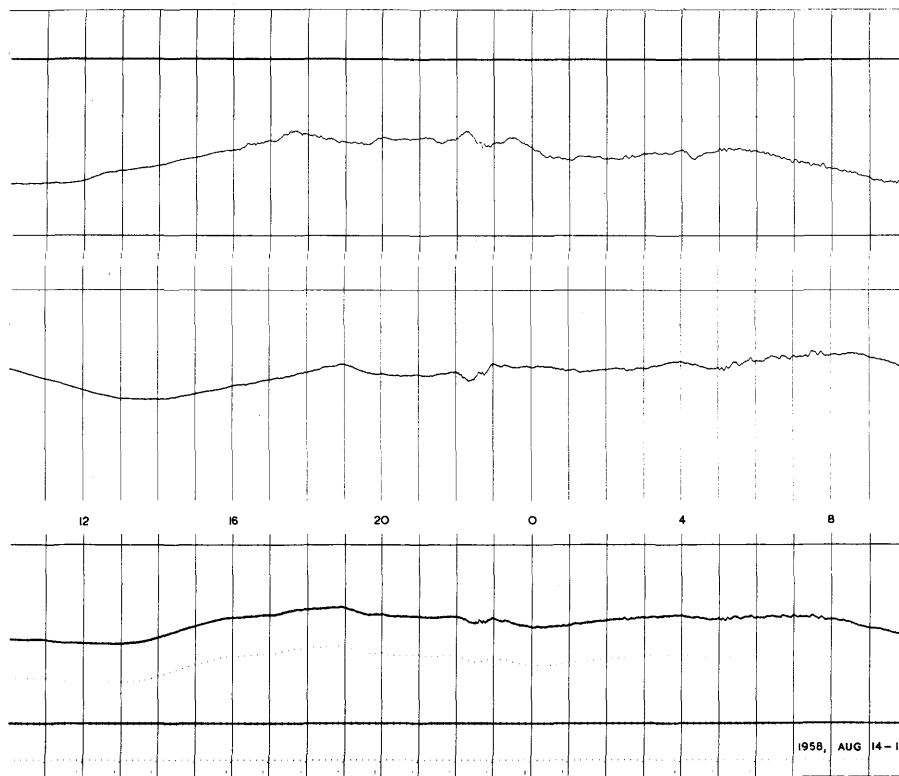


AUGUST 12-13

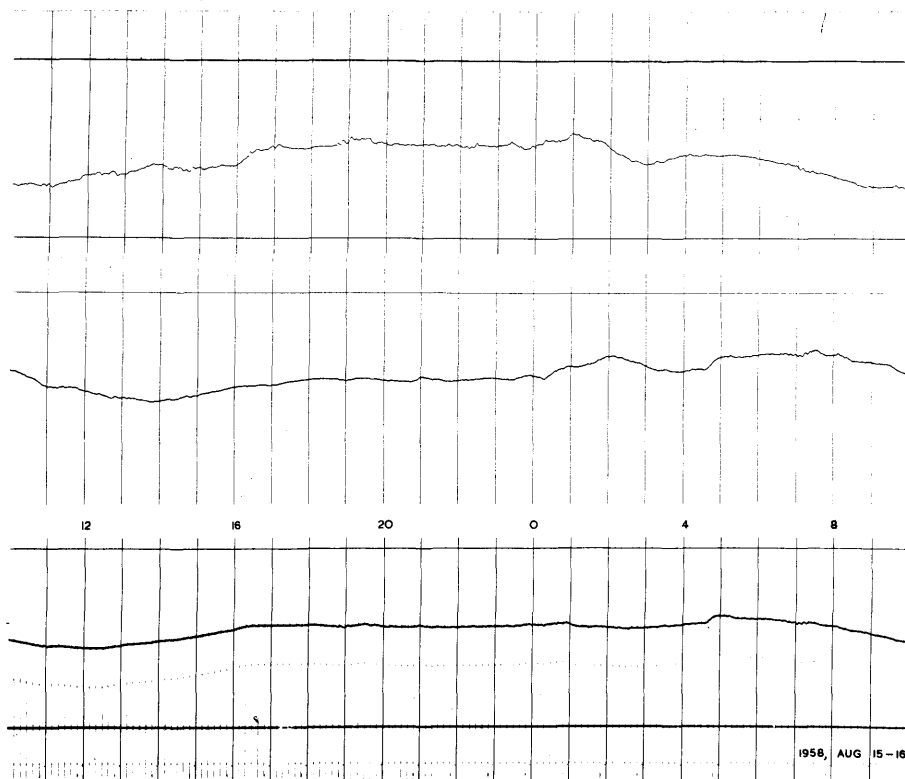


AUGUST 13-14

1958

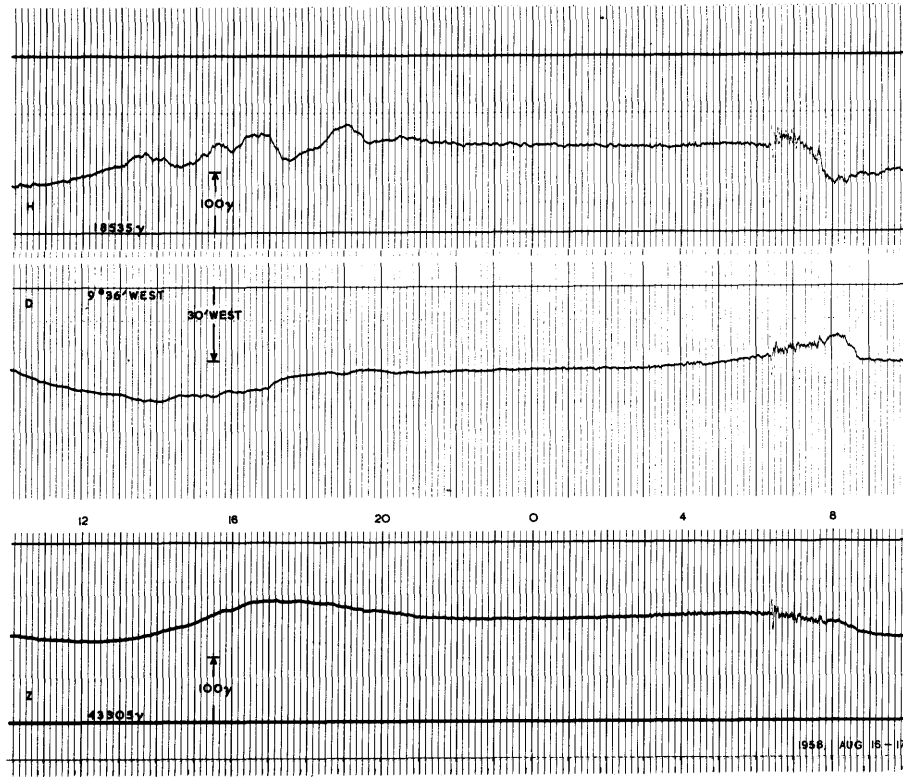


AUGUST 14-15

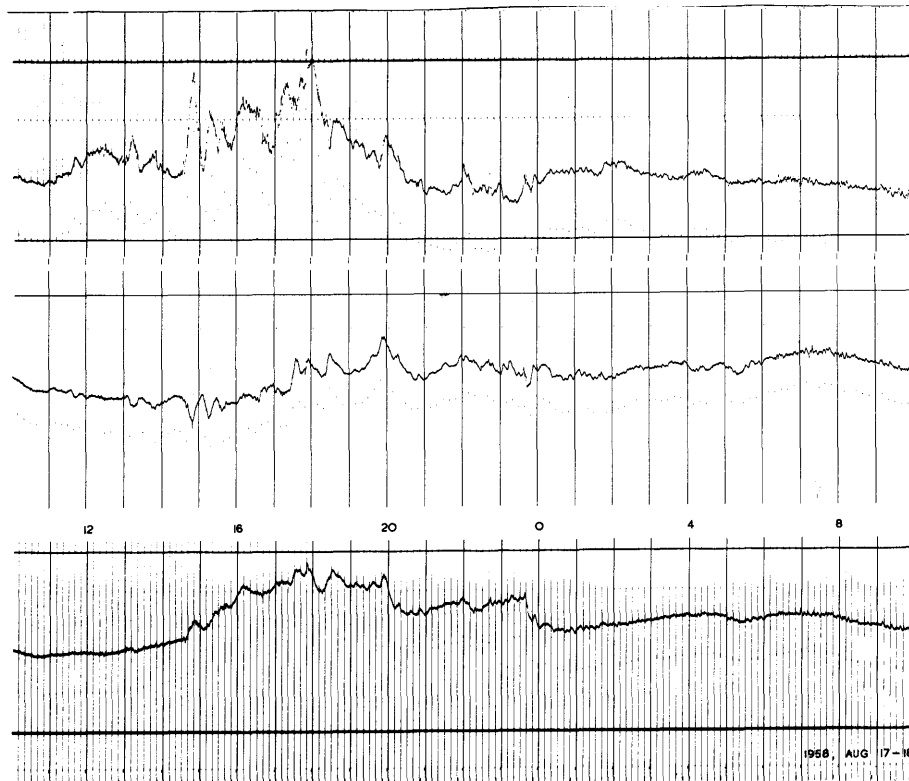


AUGUST 15-16

1958

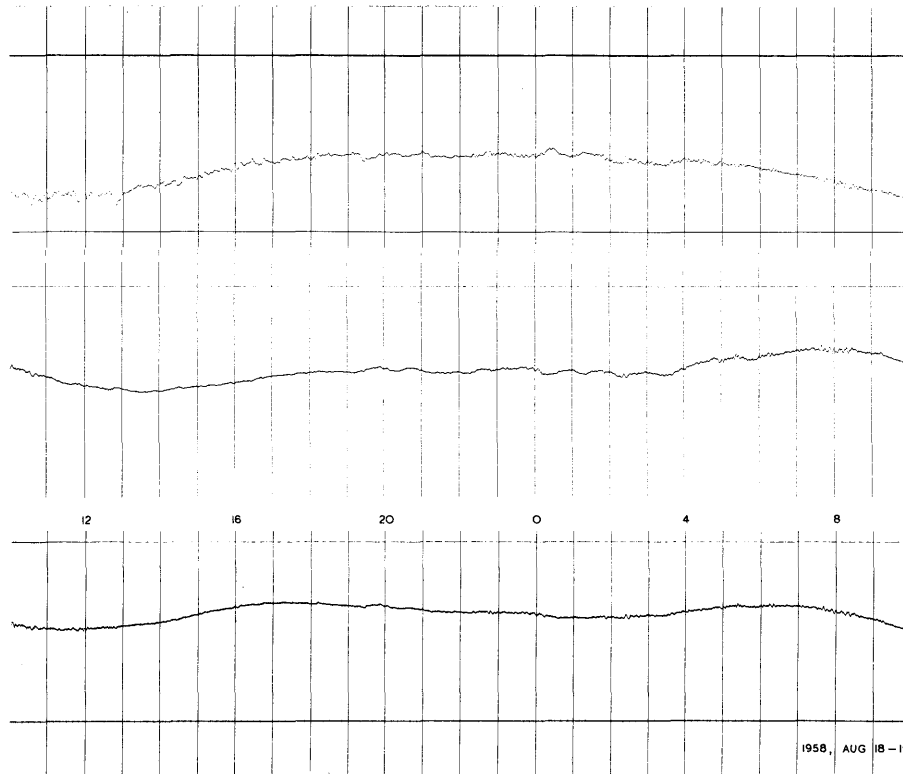


AUGUST 16-17

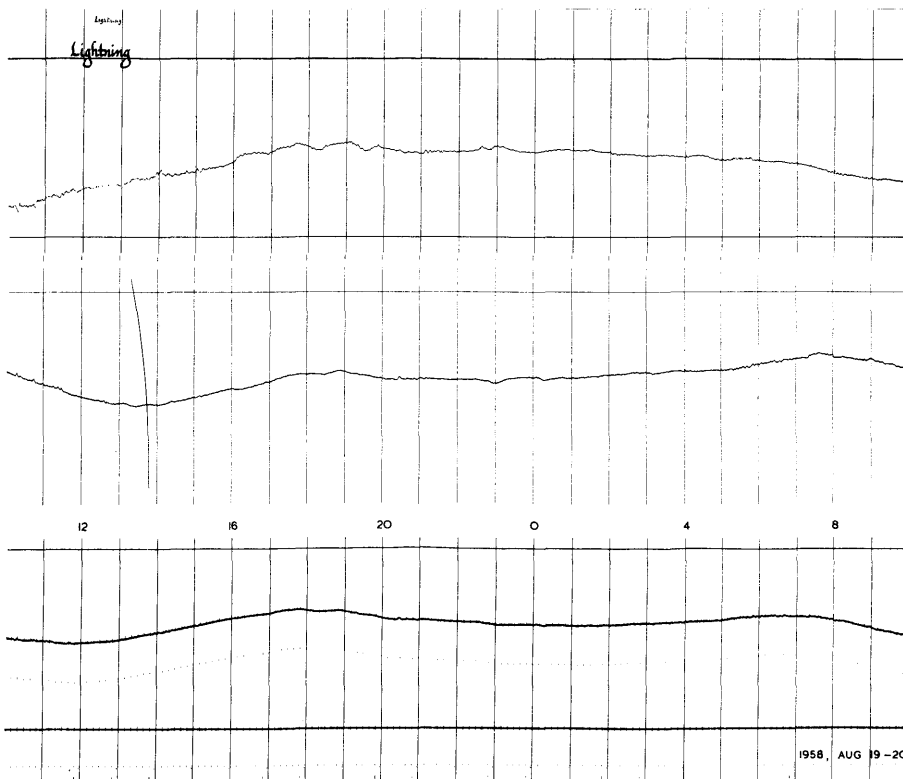


AUGUST 17-18

1958

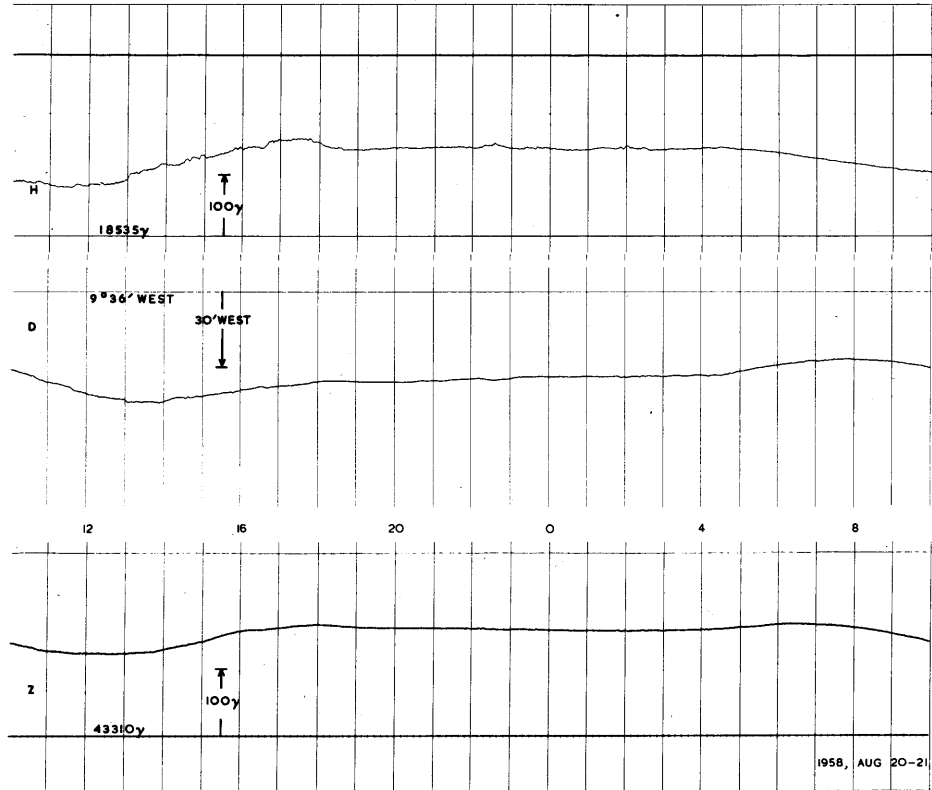


AUGUST 18-19

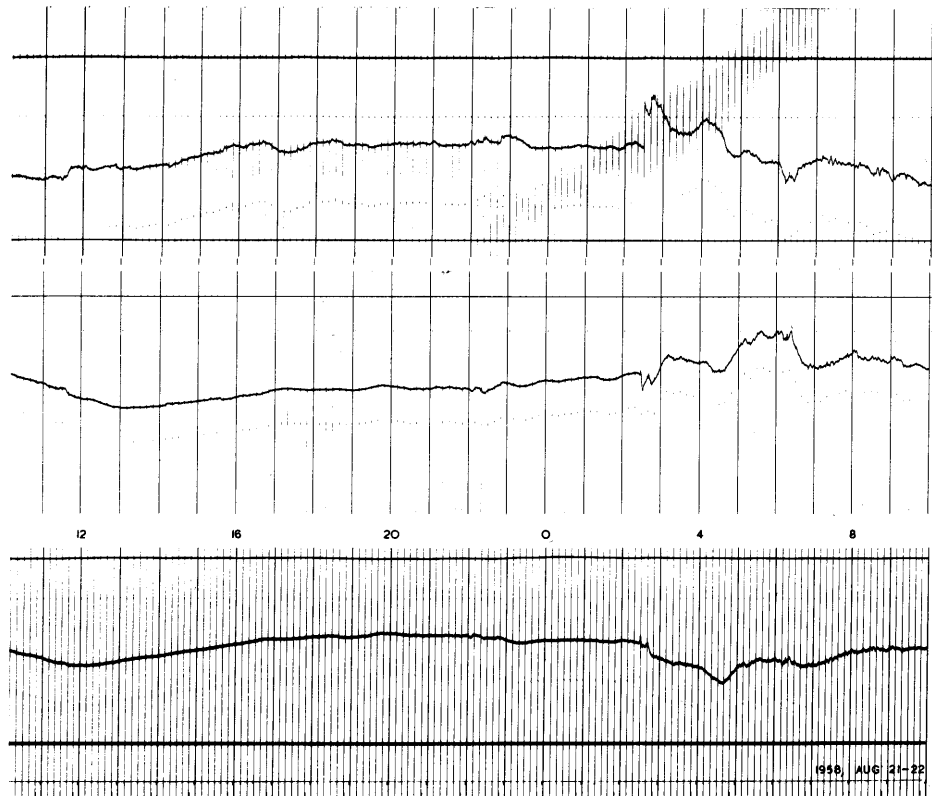


AUGUST 19-20

1958



AUGUST 20-21



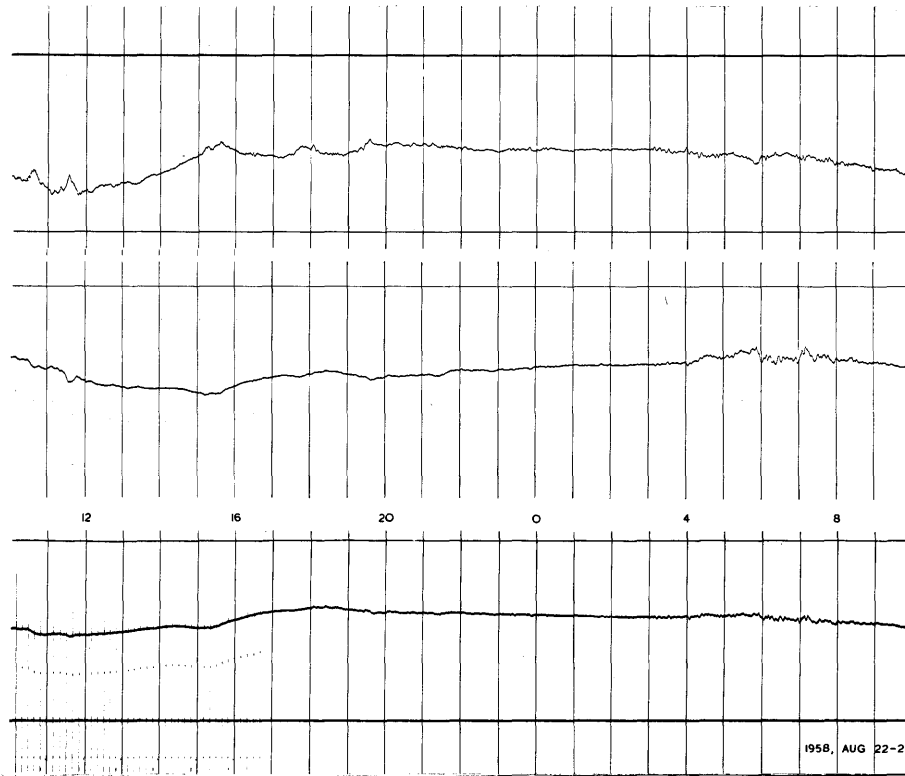
AUGUST 21-22

1965]

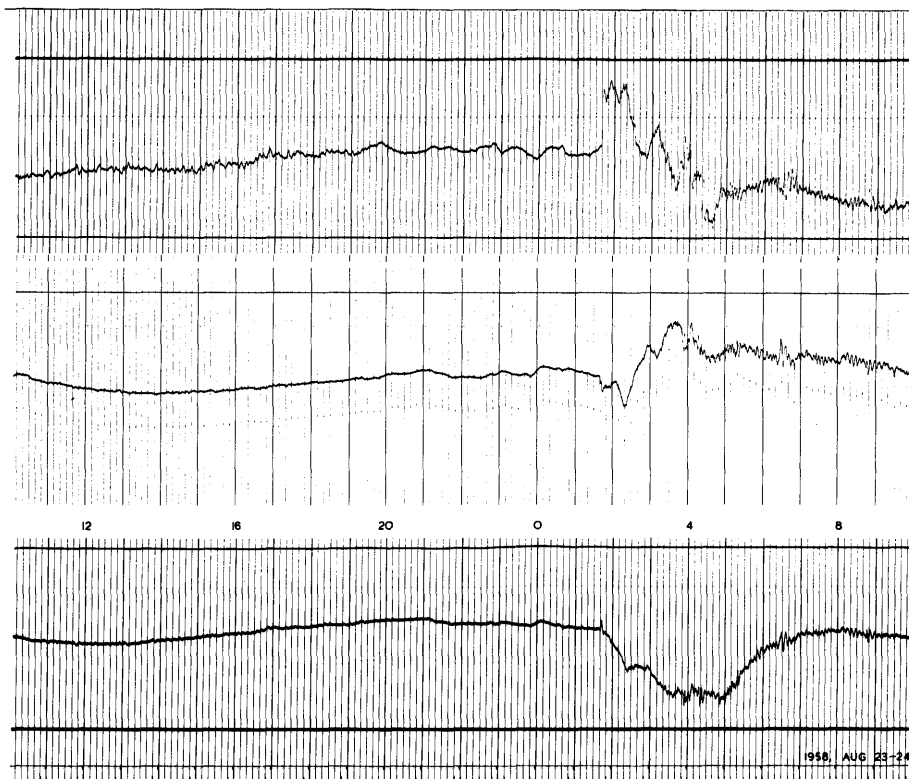
MAGNETIC RESULTS 1958 (HARTLAND)

D177

1958

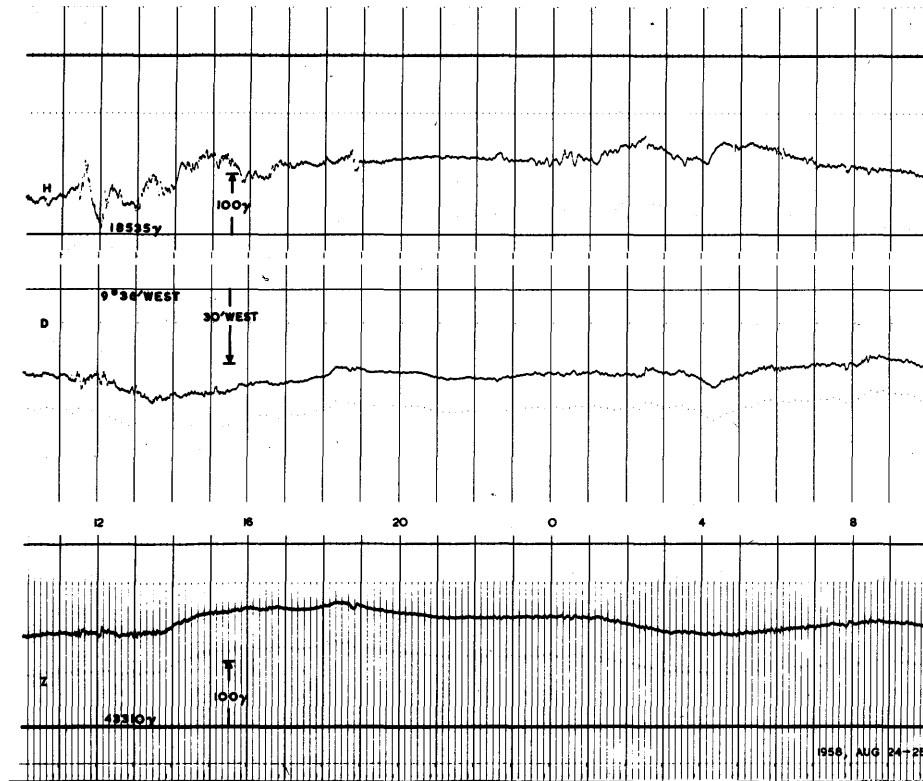


AUGUST 22-23

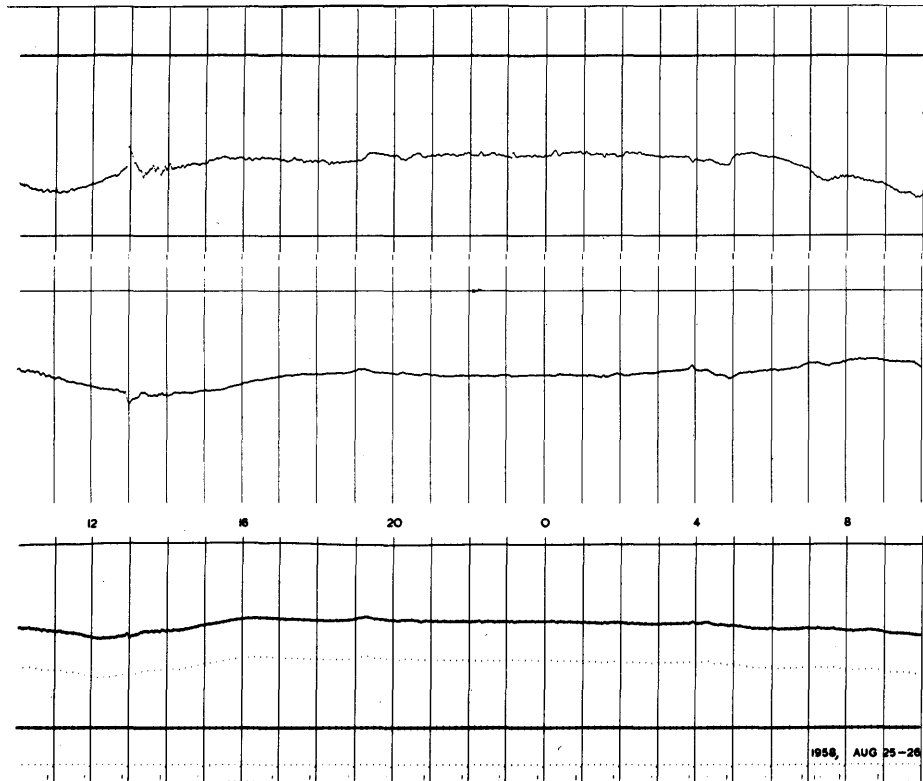


AUGUST 23-24

1958

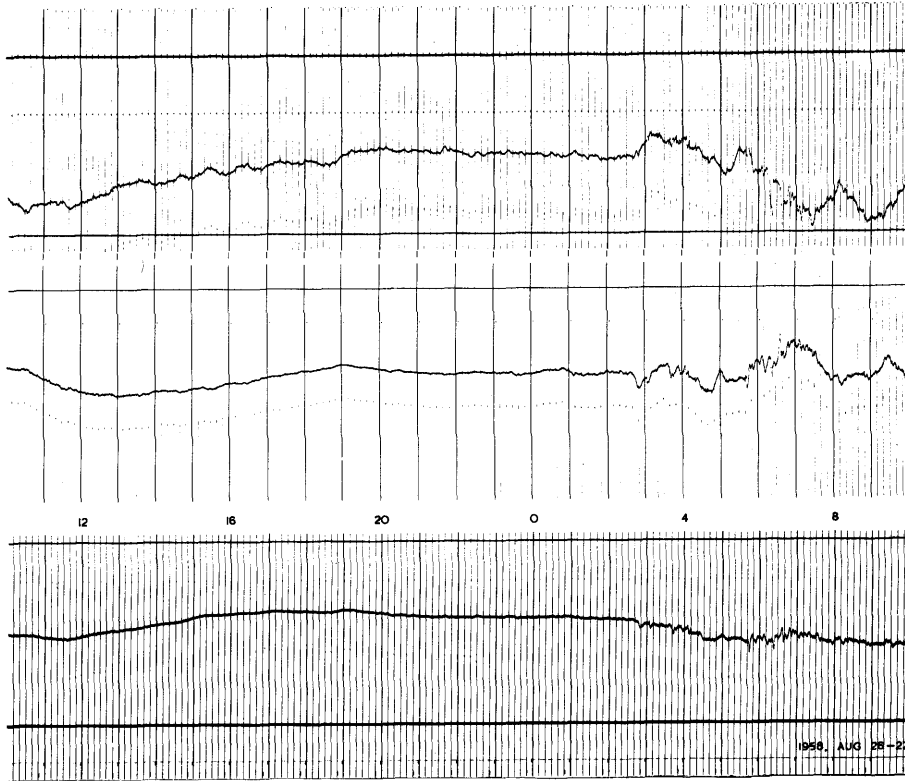


AUGUST 24-25

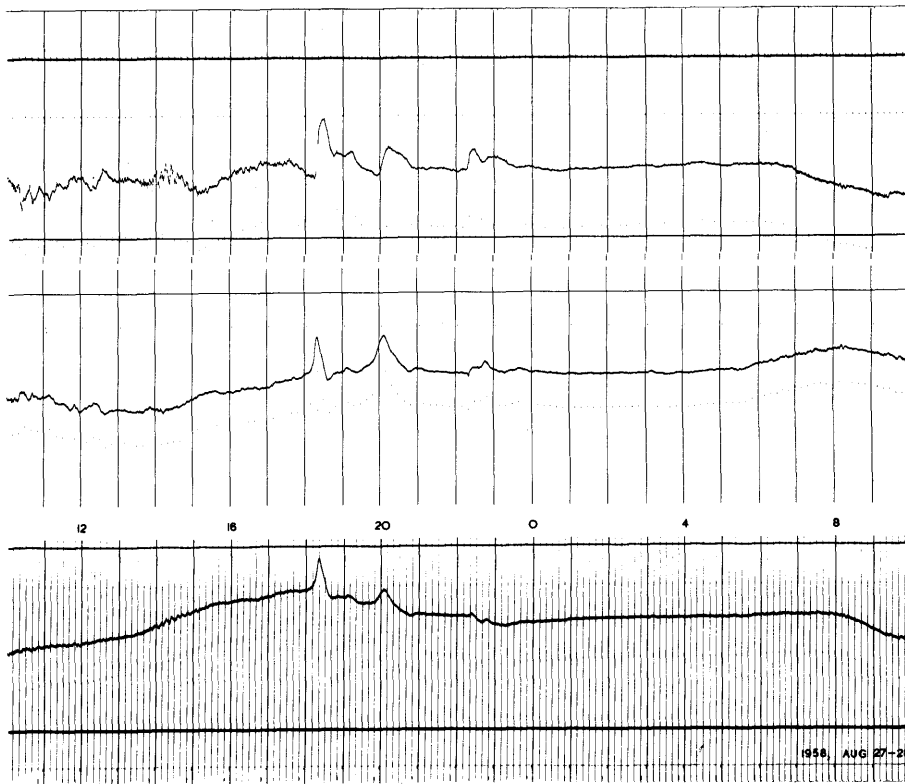


AUGUST 25-26

1958

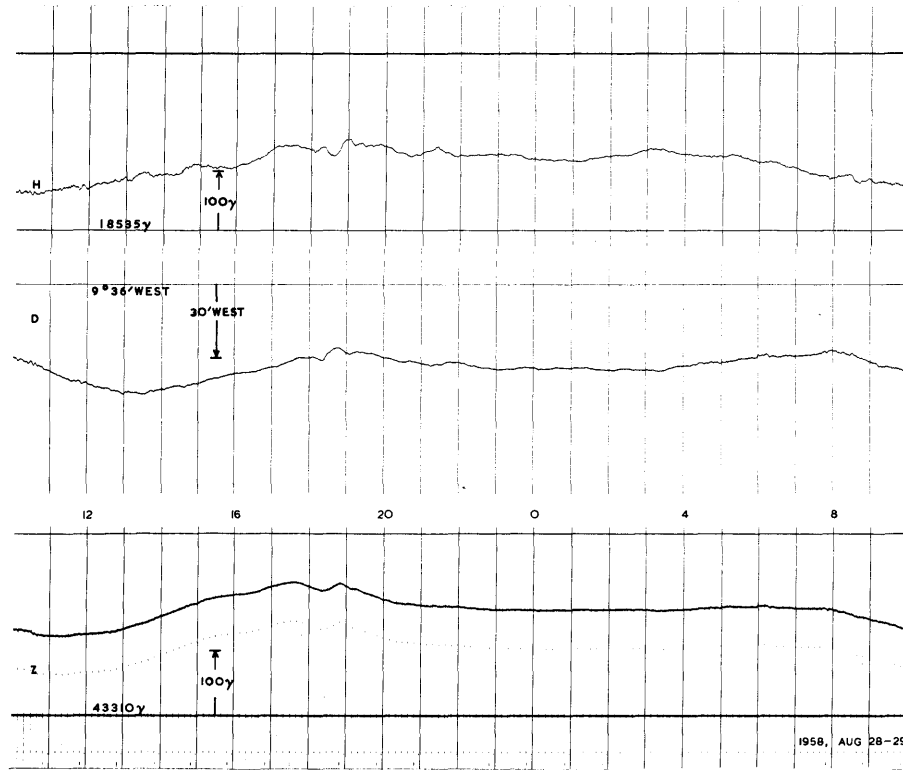


AUGUST 26-27

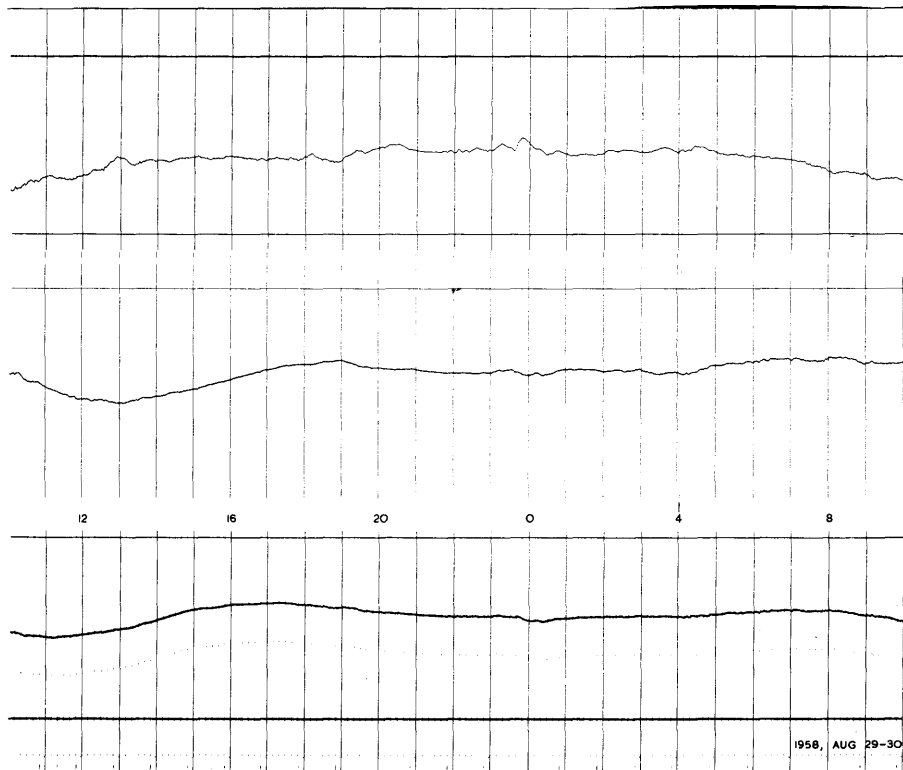


AUGUST 27-28

1958

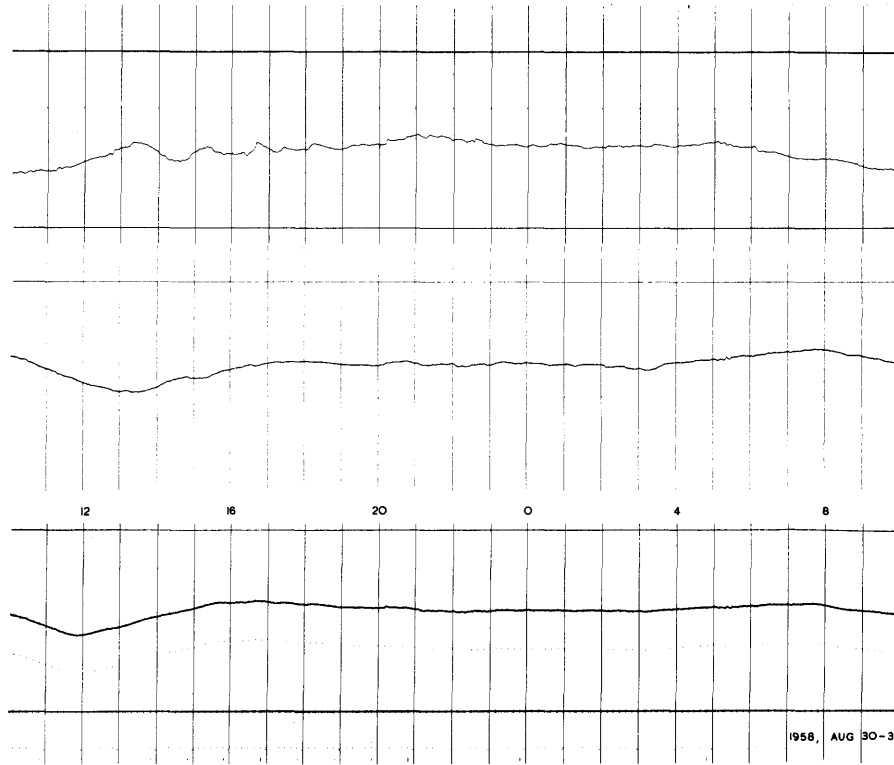


AUGUST 28-29

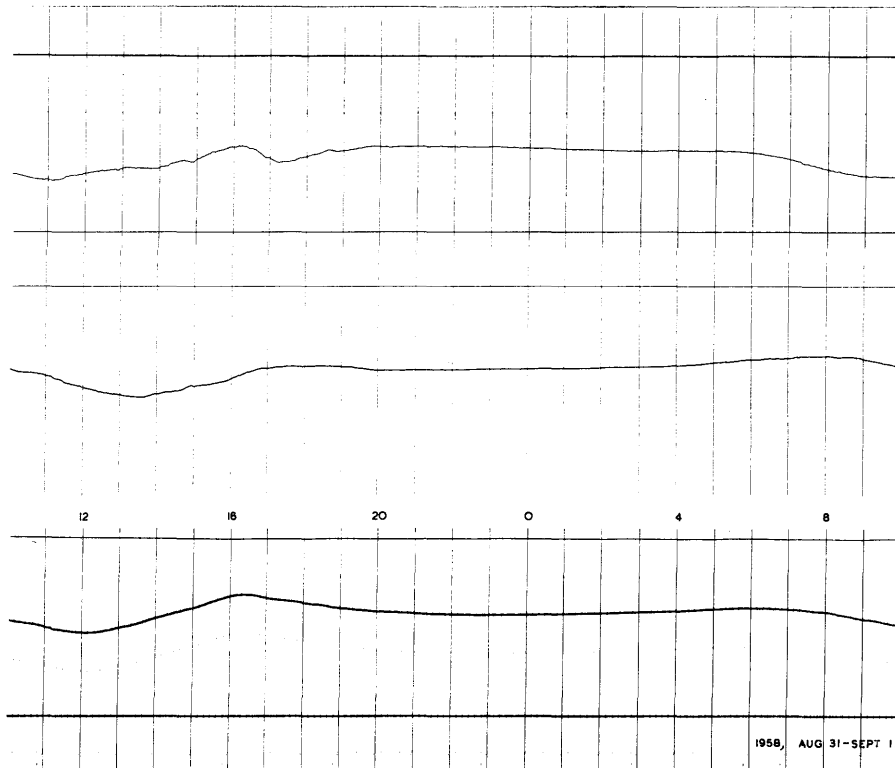


AUGUST 29-30

1958

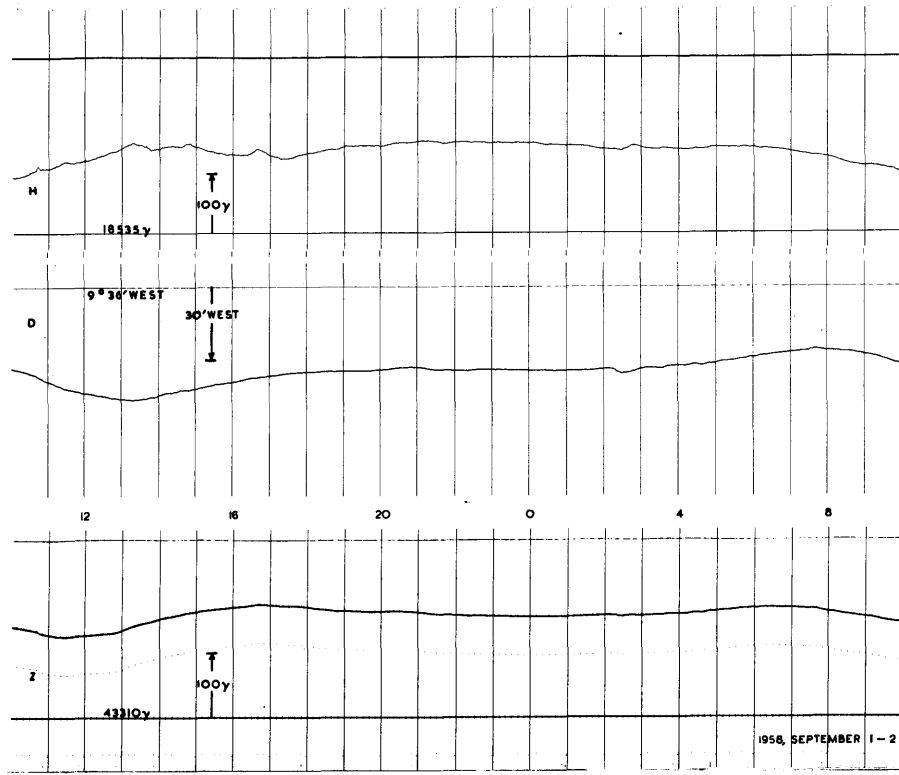


AUGUST 30-31

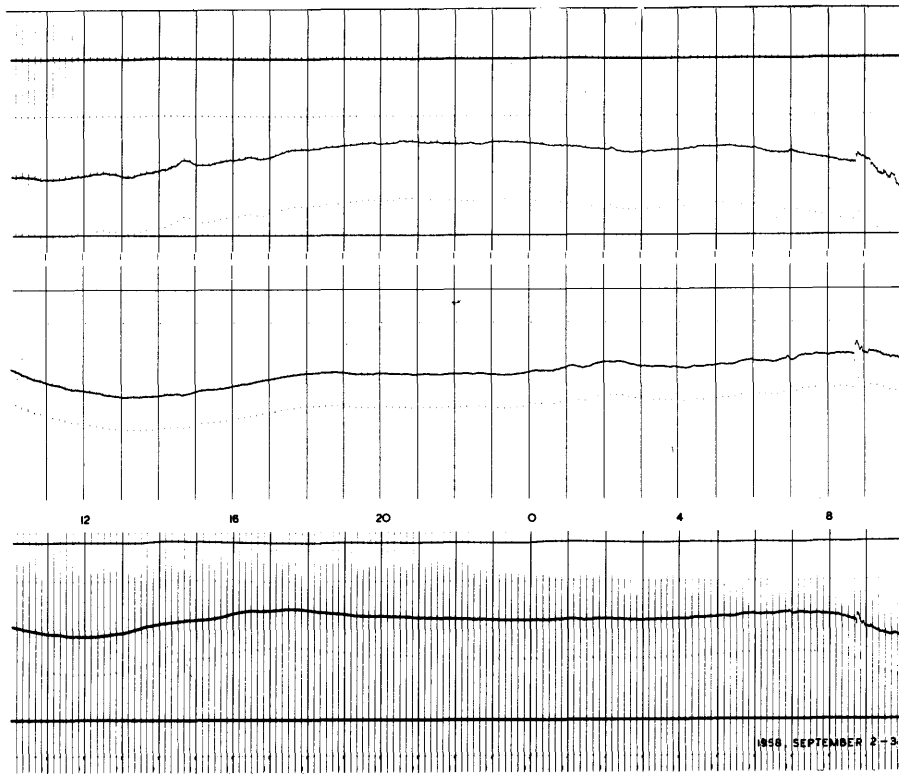


AUG. 31-SEP. 1

1958

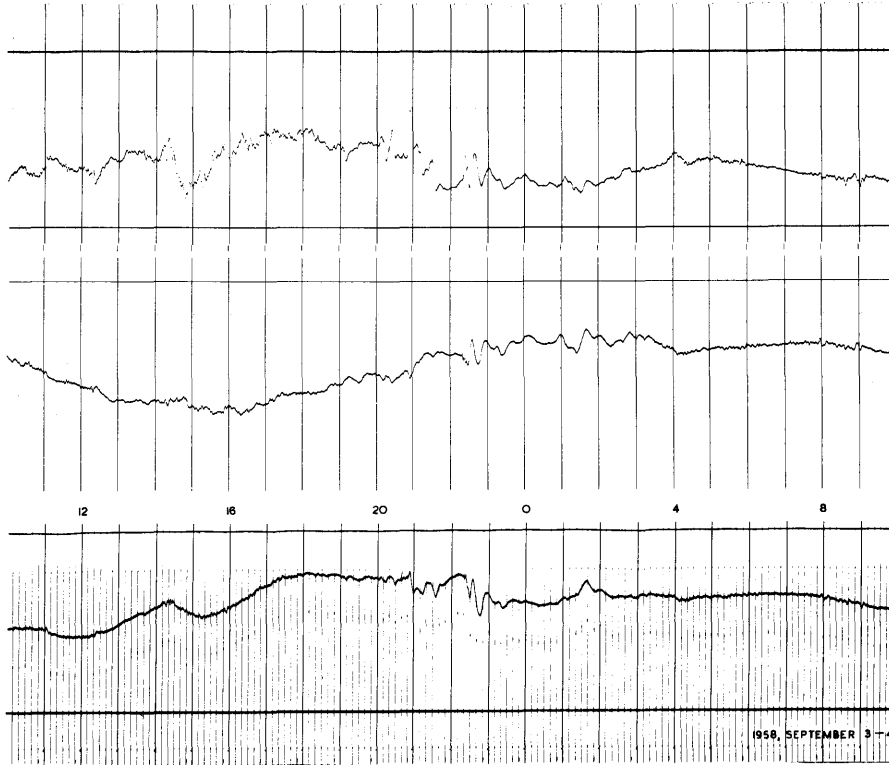


SEPTEMBER 1-2

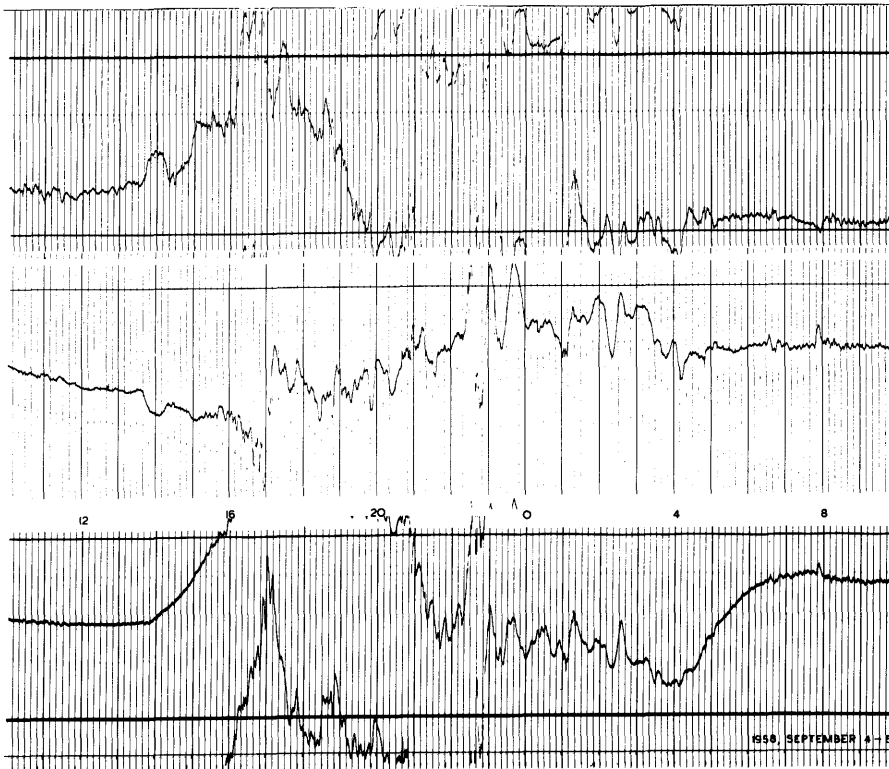


SEPTEMBER 2-3

1958

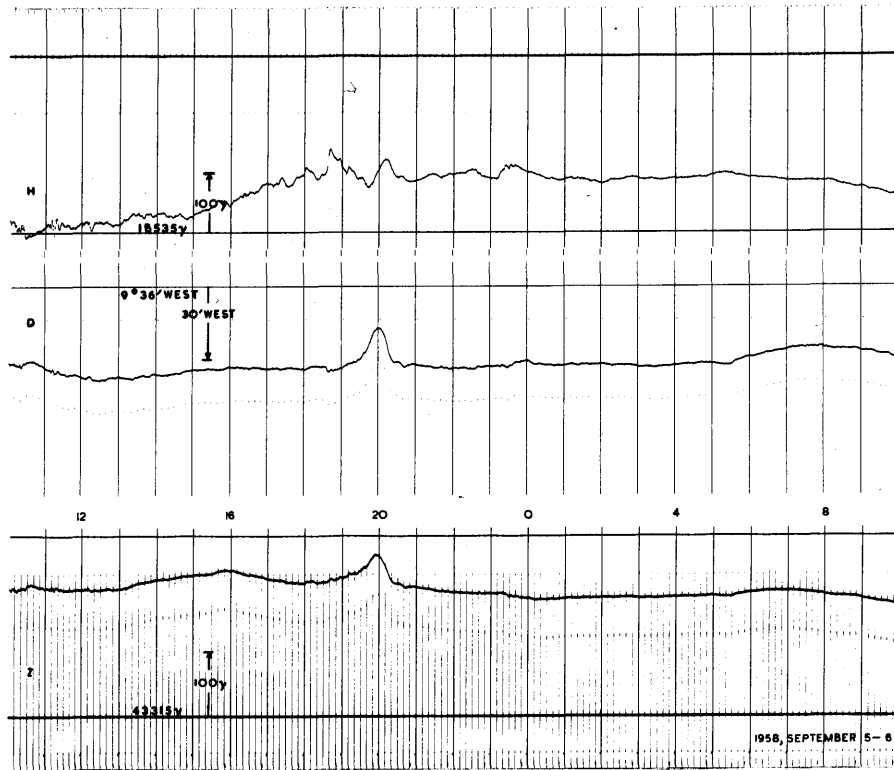


SEPTEMBER 3-4

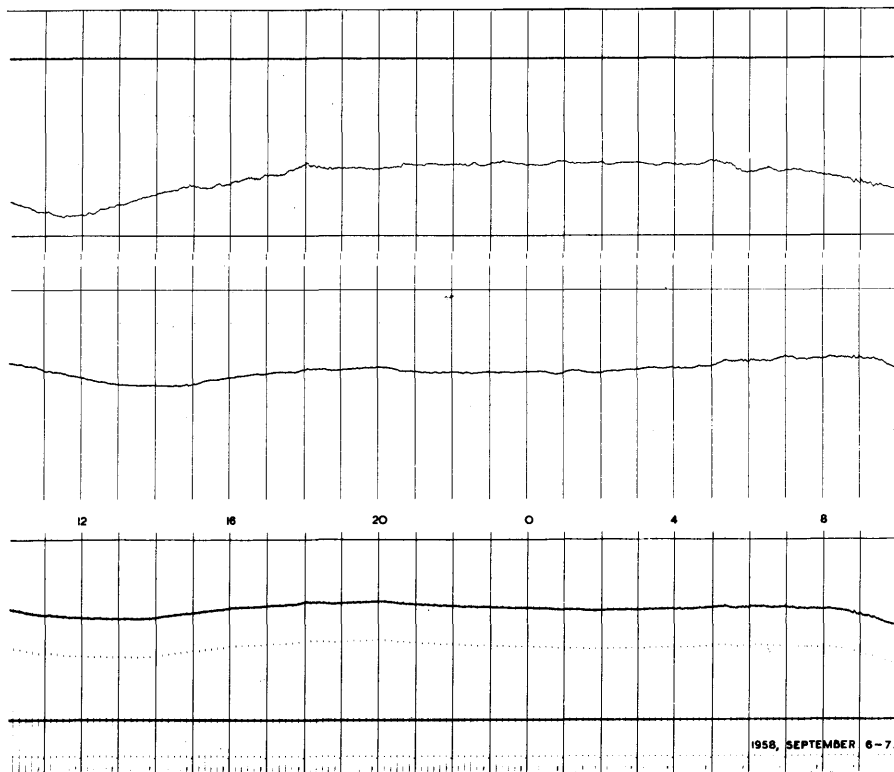


SEPTEMBER 4-5

1958

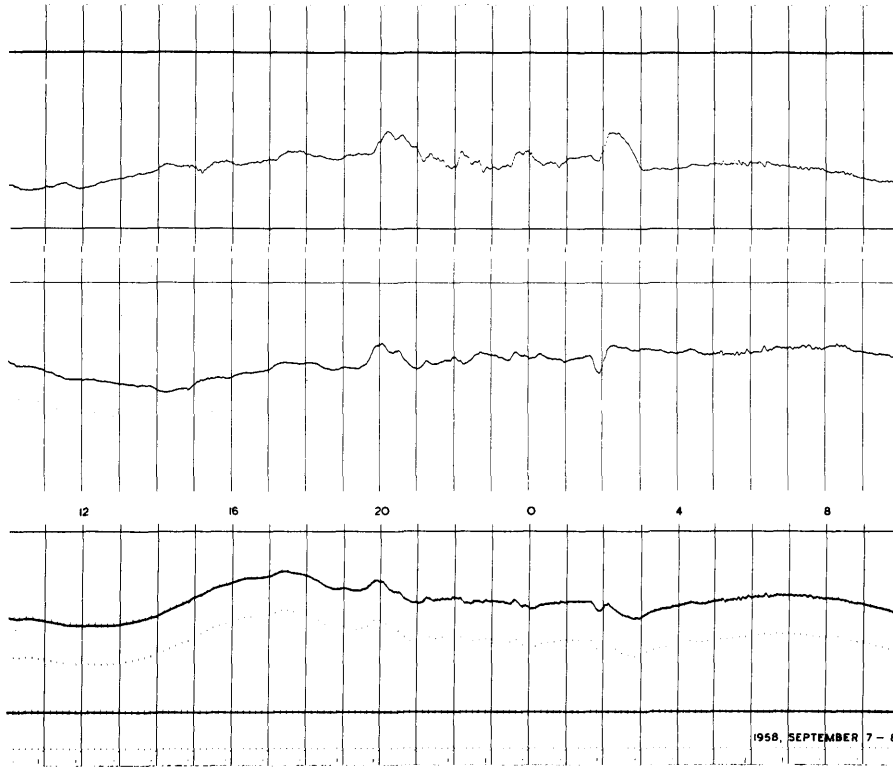


SEPTEMBER 5-6

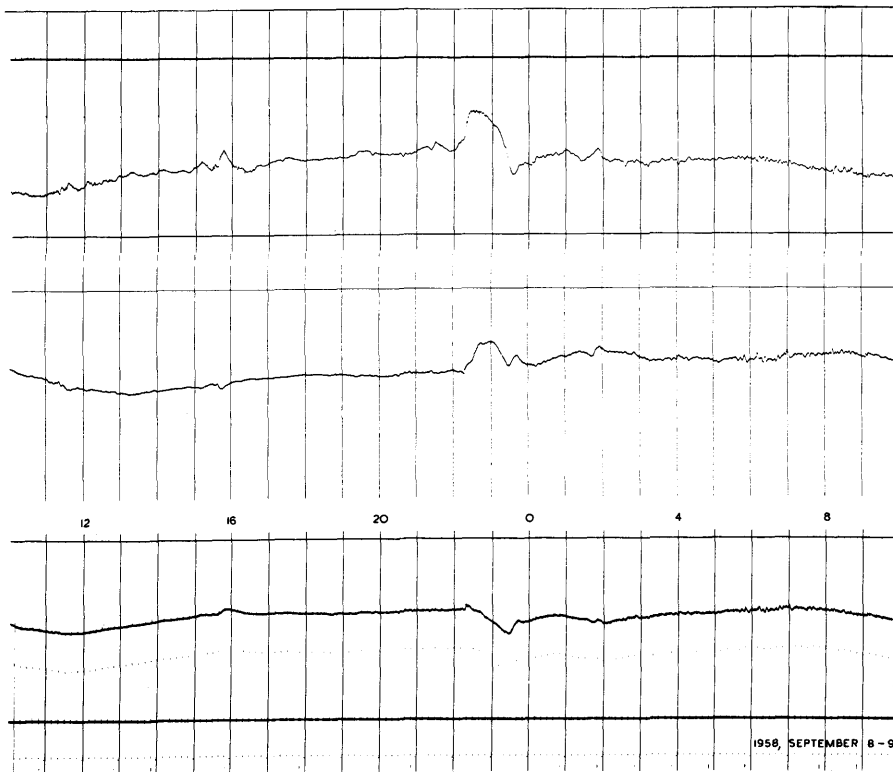


SEPTEMBER 6-7

1958

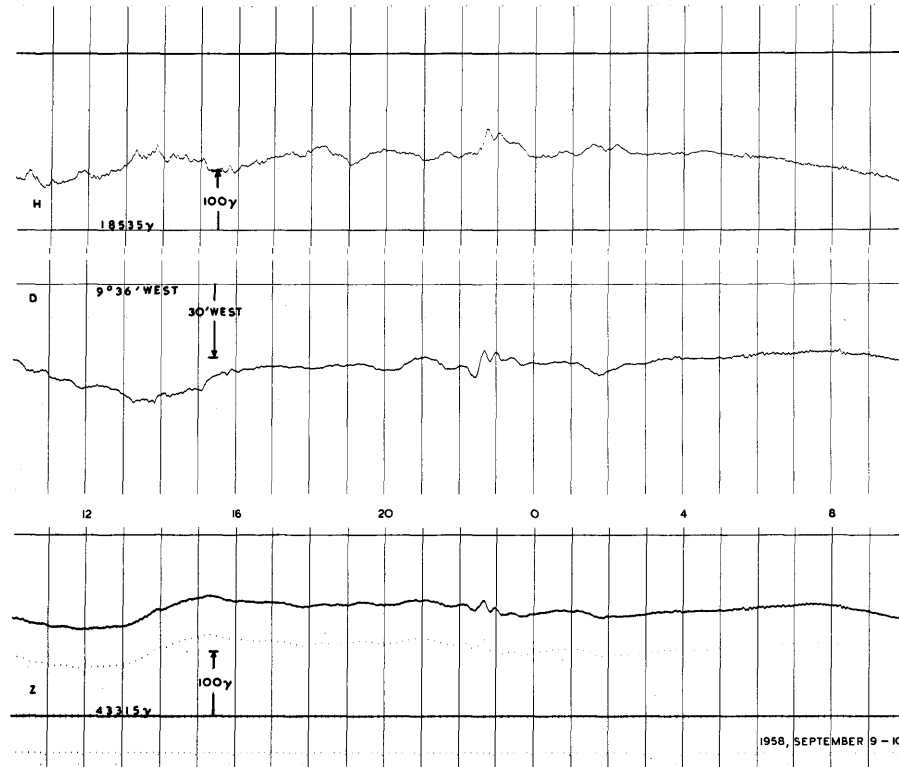


SEPTEMBER 7-8

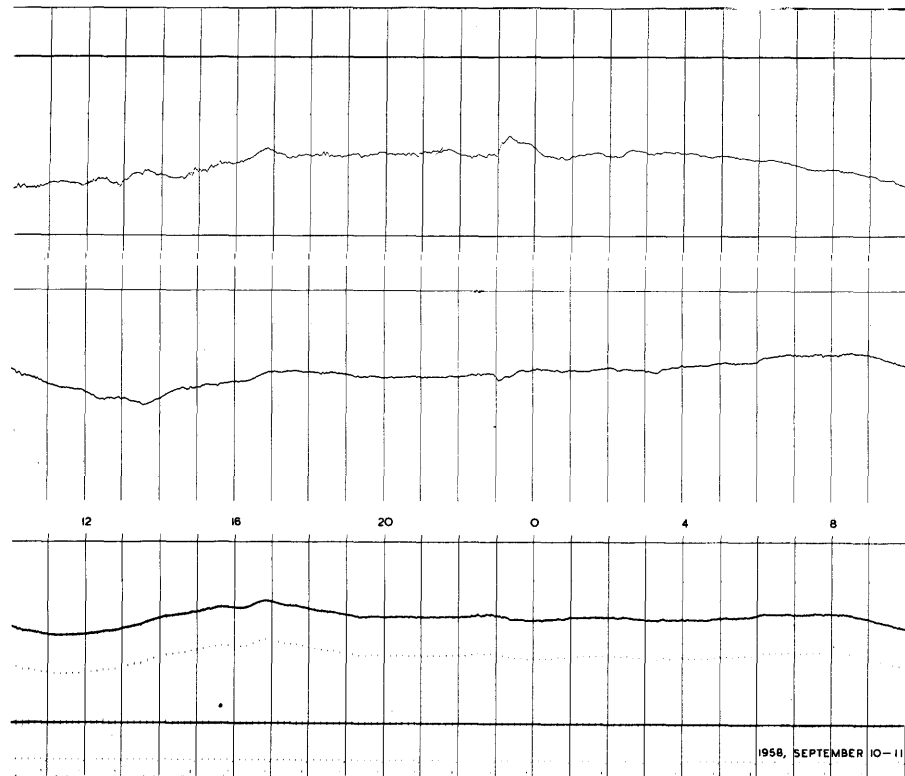


SEPTEMBER 8-9

1958

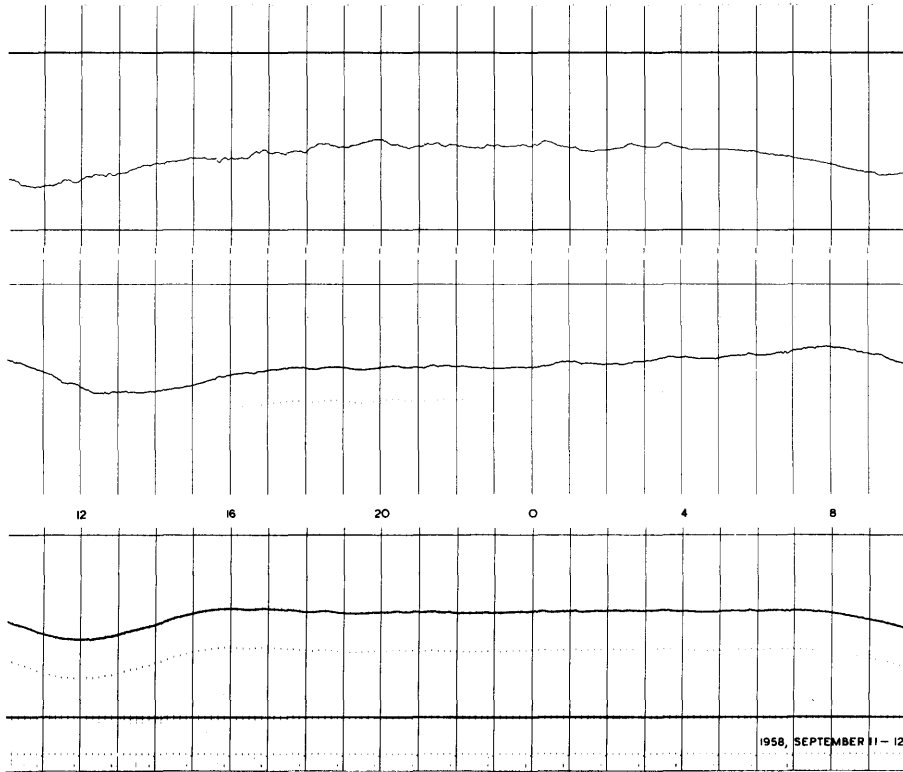


SEPTEMBER 9-10

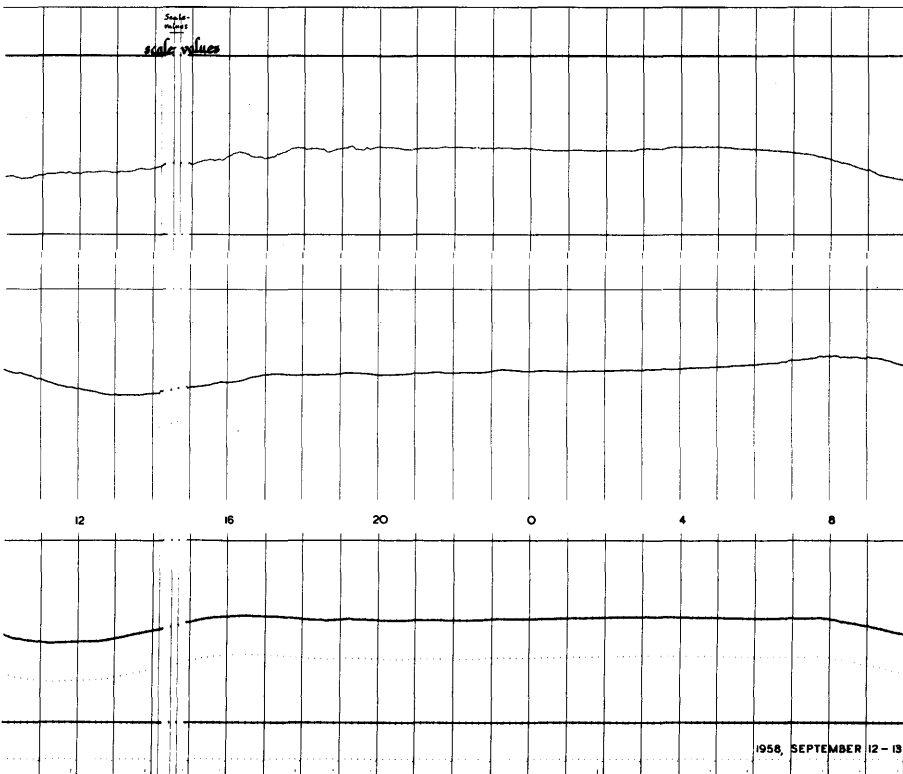


SEPTEMBER 10-11

1958

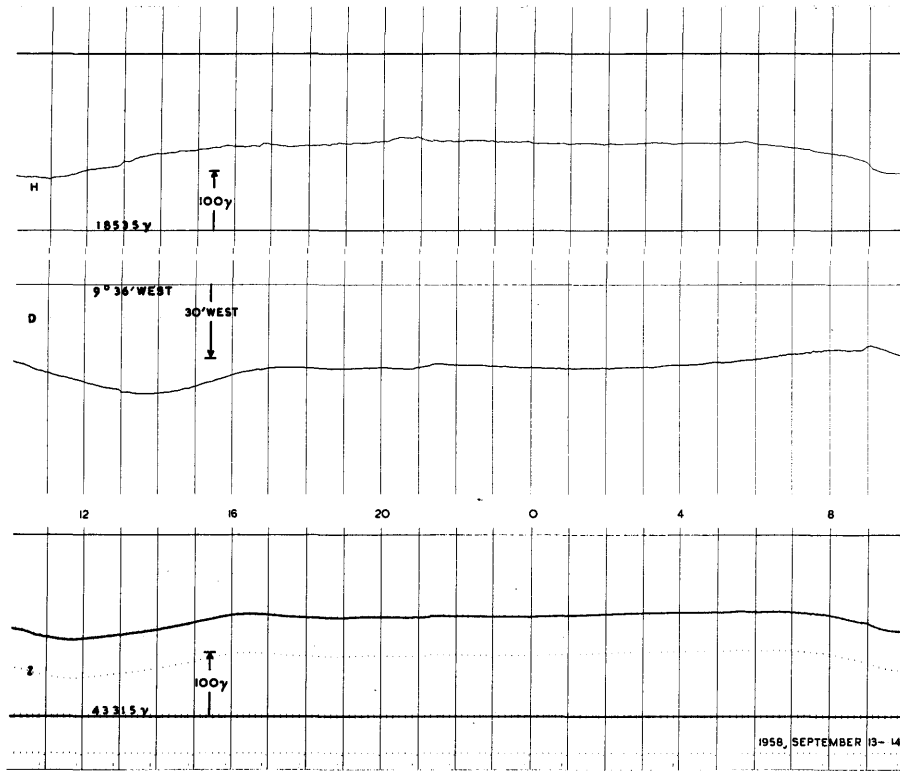


SEPTEMBER 11-12

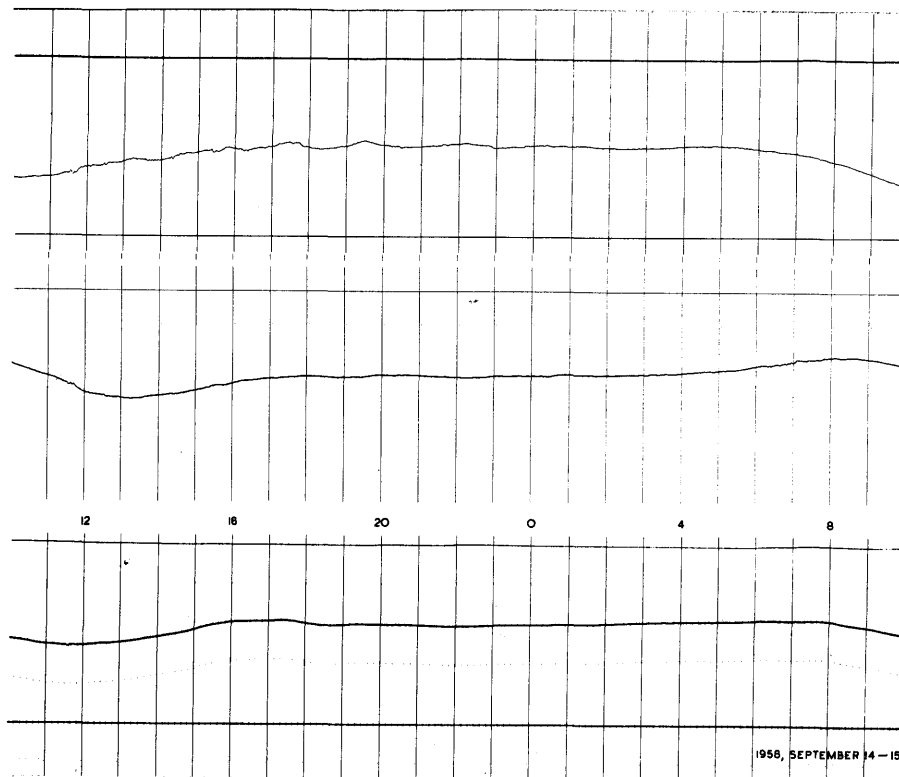


SEPTEMBER 12-13

1958

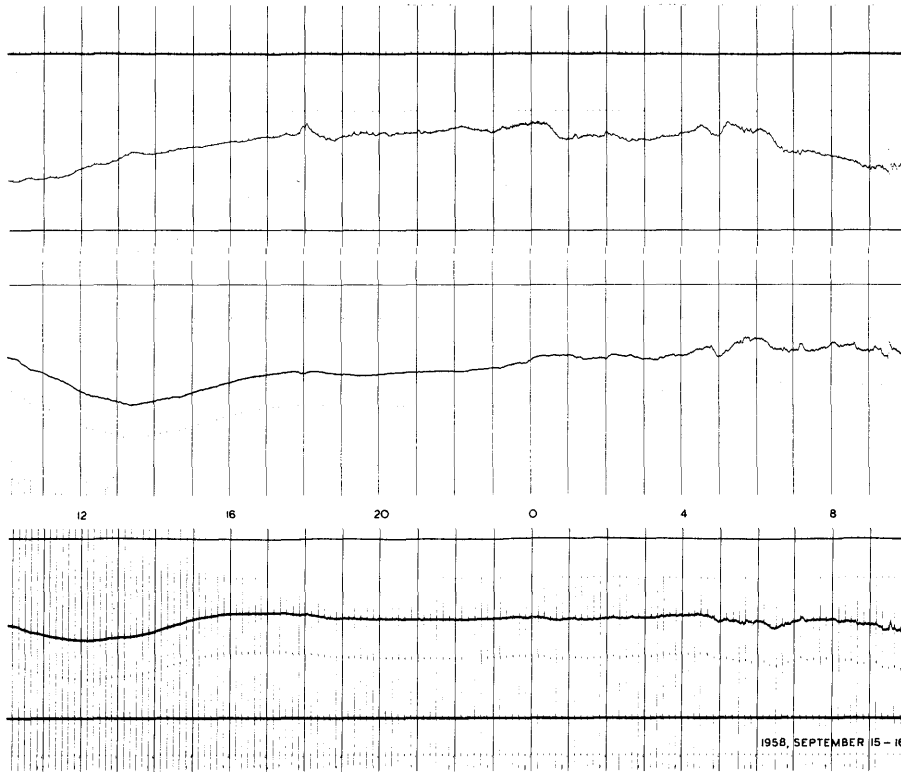


SEPTEMBER 13-14

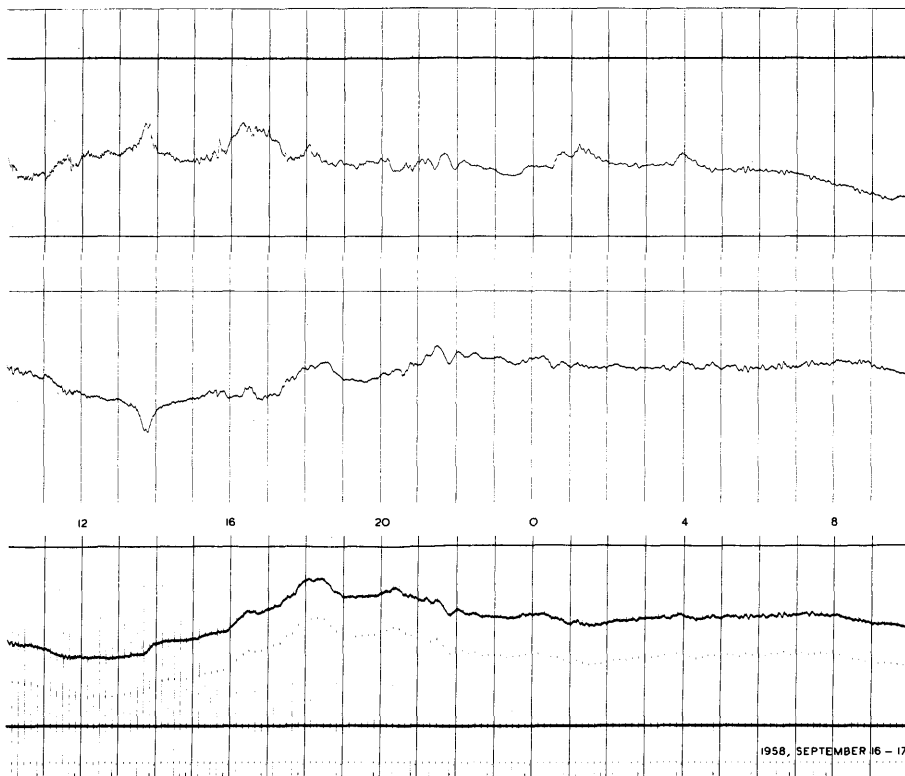


SEPTEMBER 14-15

1958

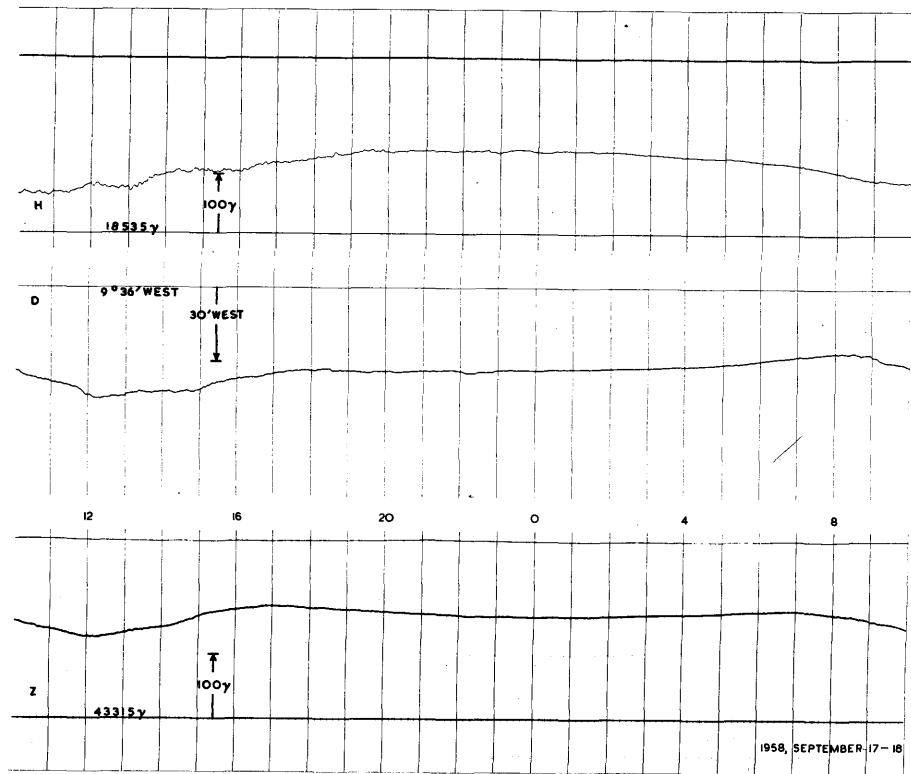


SEPTEMBER 15-16

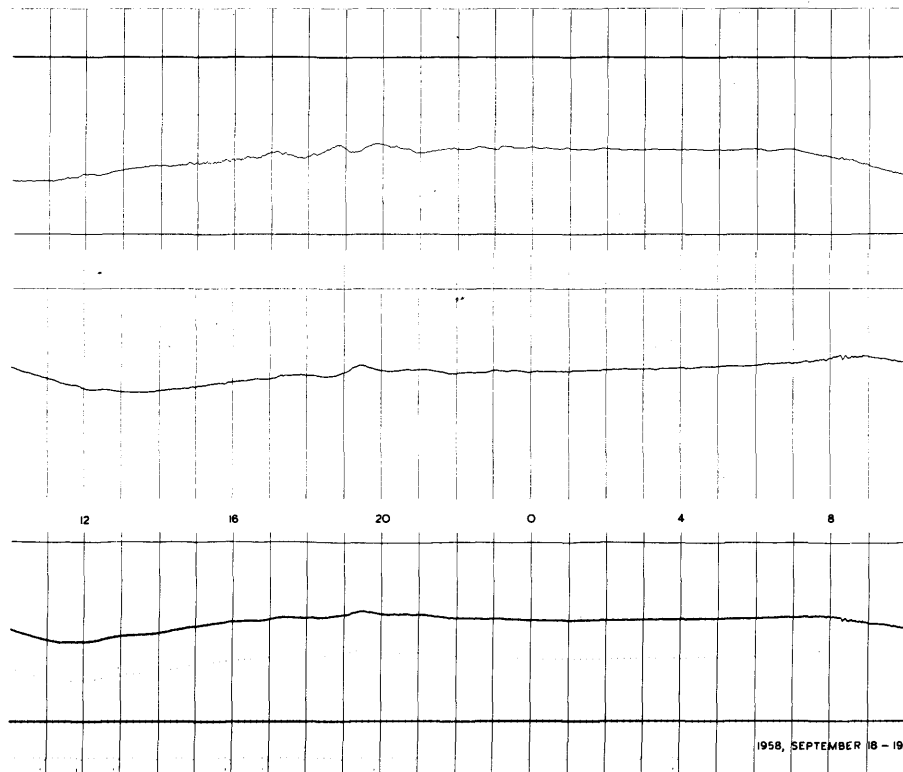


SEPTEMBER 16-17

1958

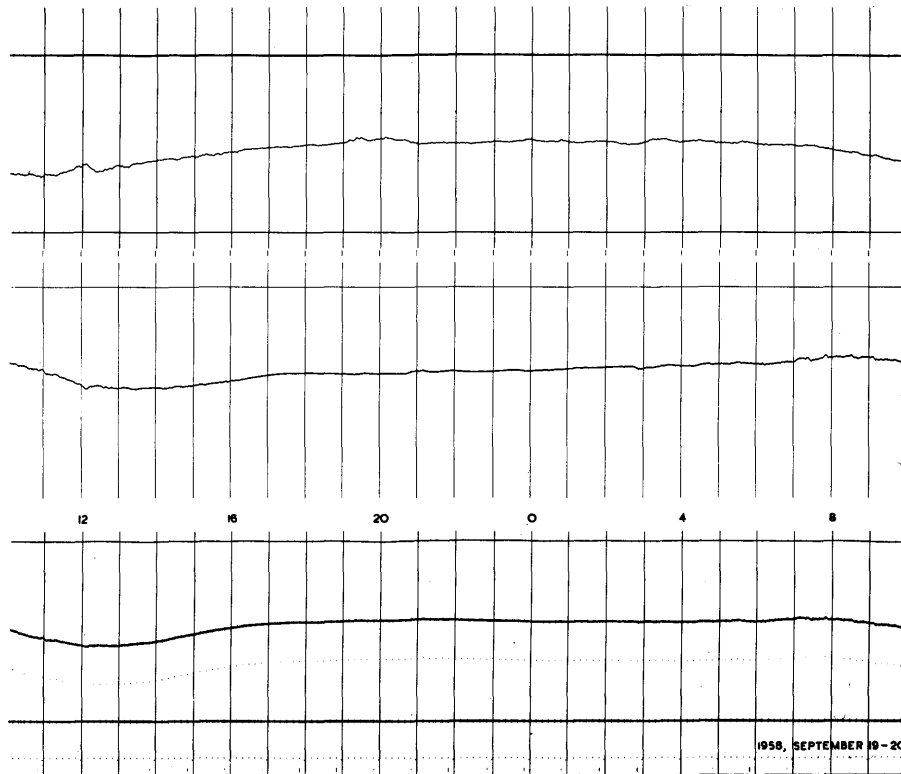


SEPTEMBER 17-18



SEPTEMBER 18-19

1958

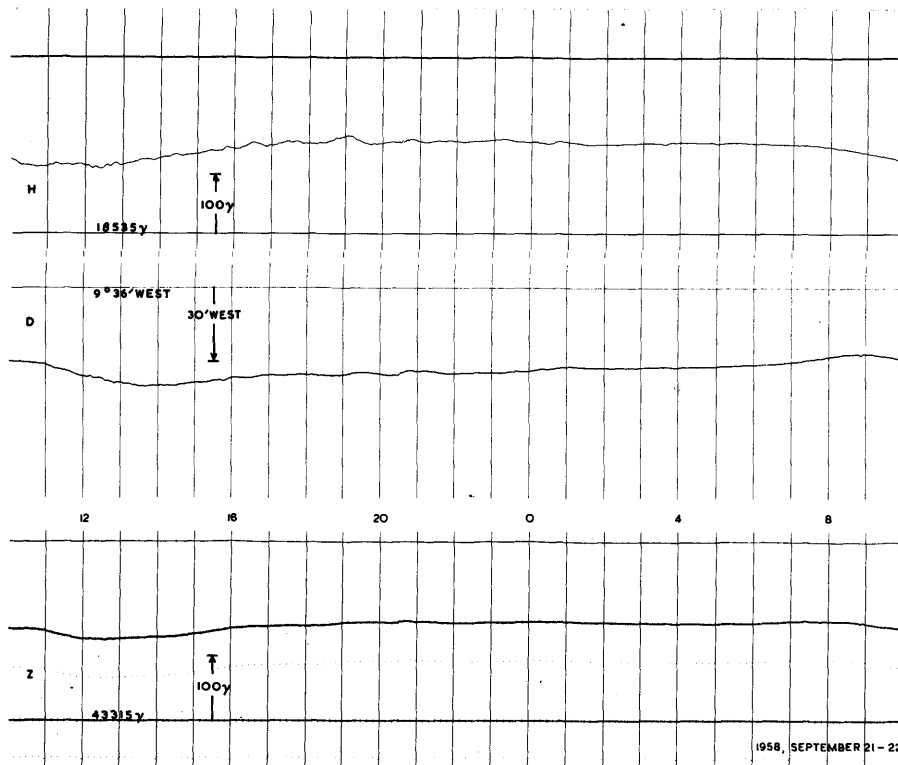


SEPTEMBER 19-20



SEPTEMBER 20-21

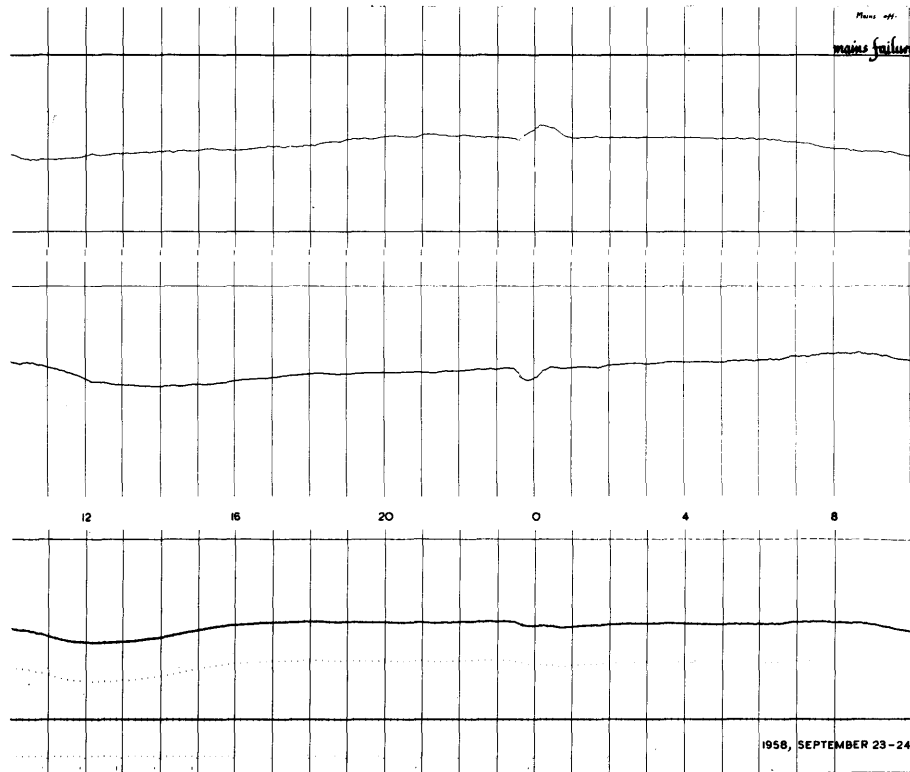
1958



SEPTEMBER 21-22

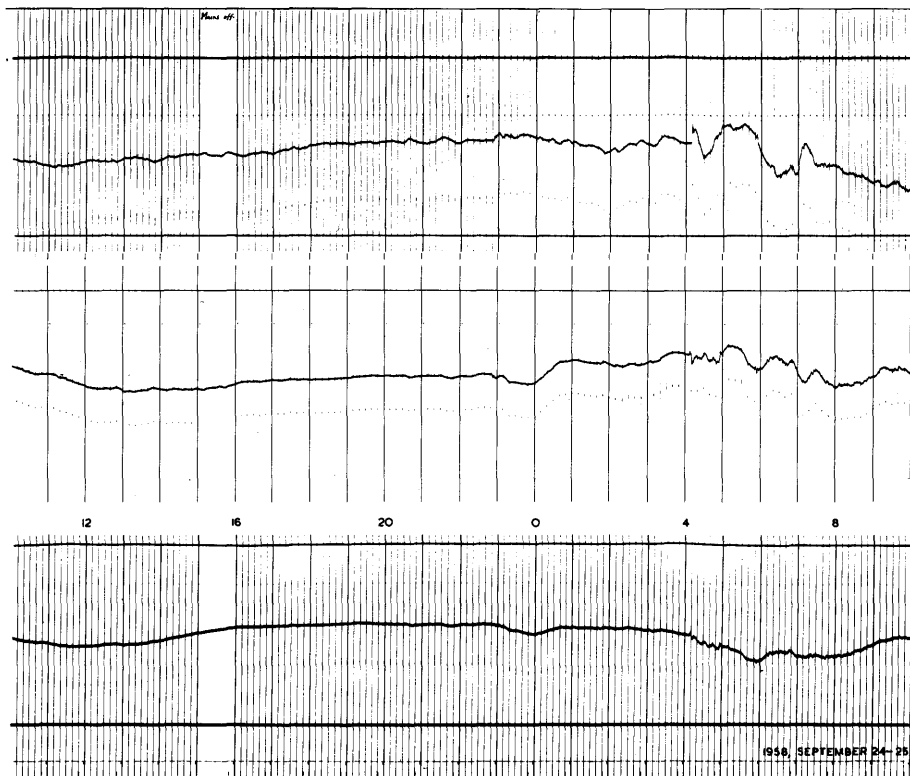


SEPTEMBER 22-23



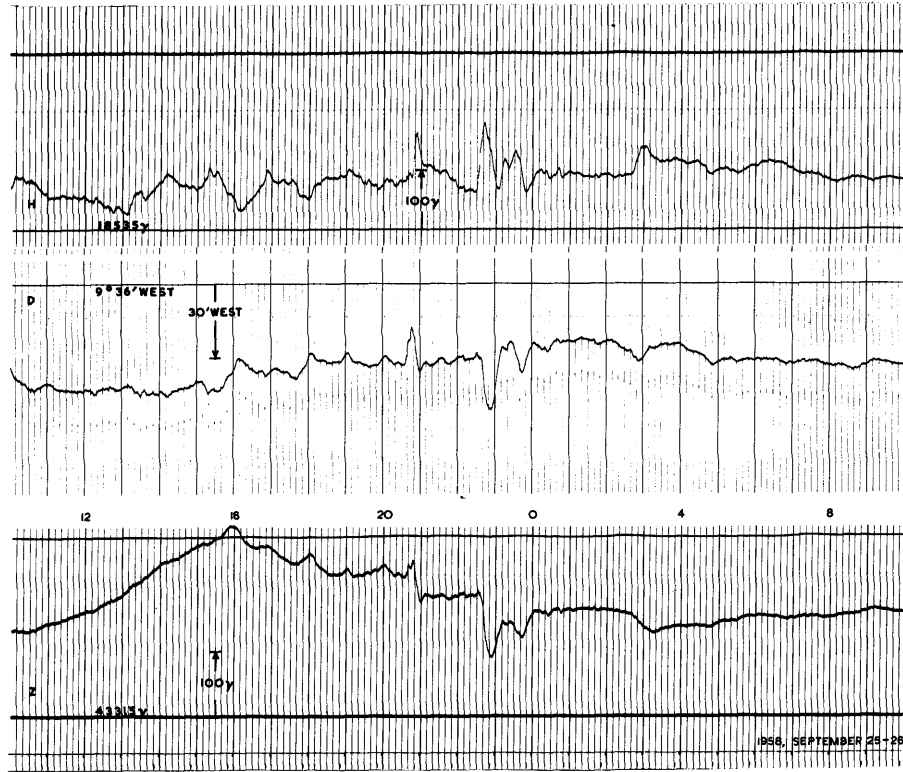
1958

SEPTEMBER 23-24

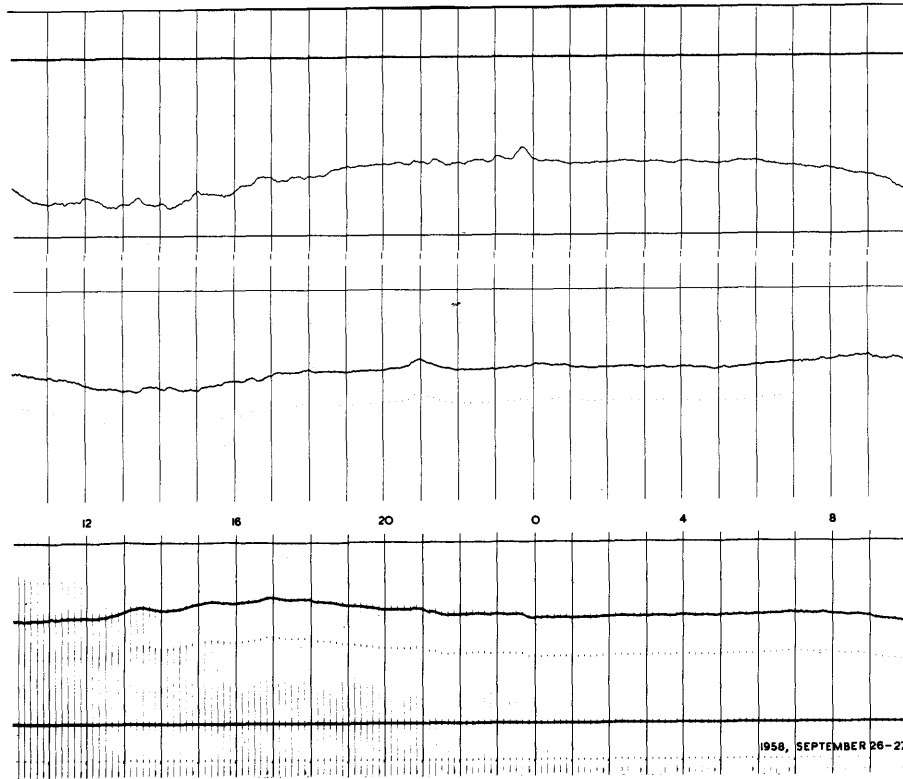


SEPTEMBER 24-25

1958

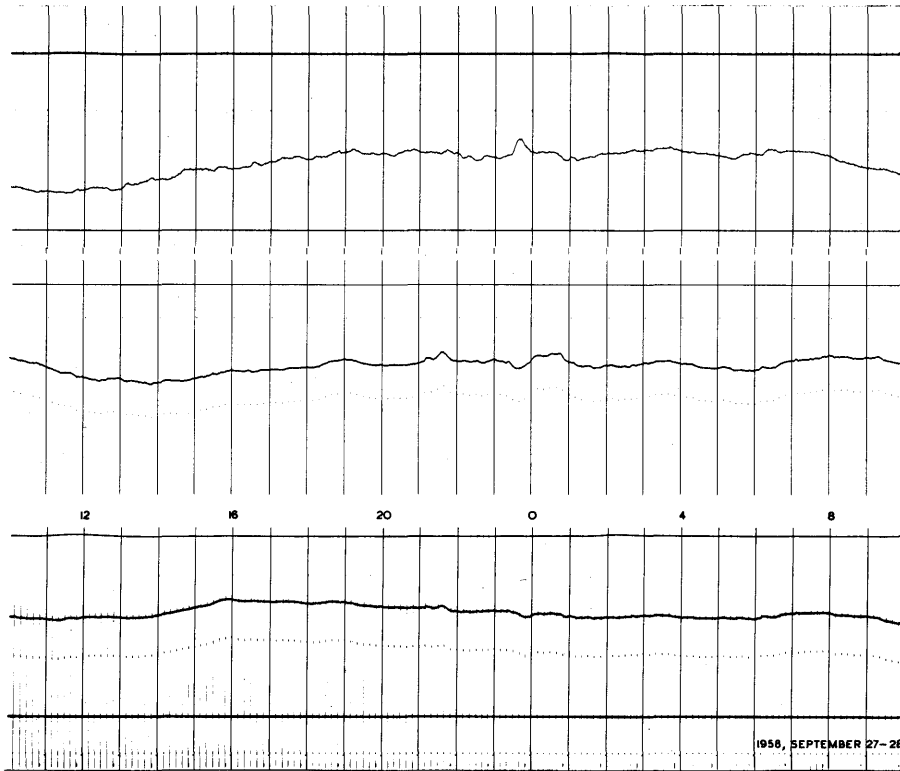


SEPTEMBER 25-26

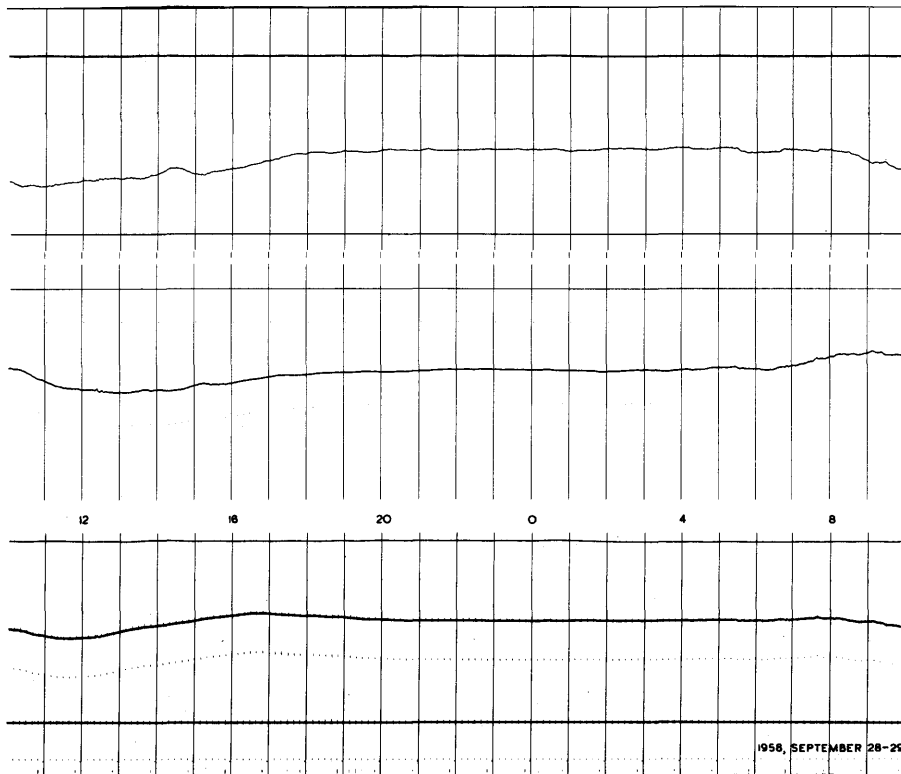


SEPTEMBER 26-27

1958

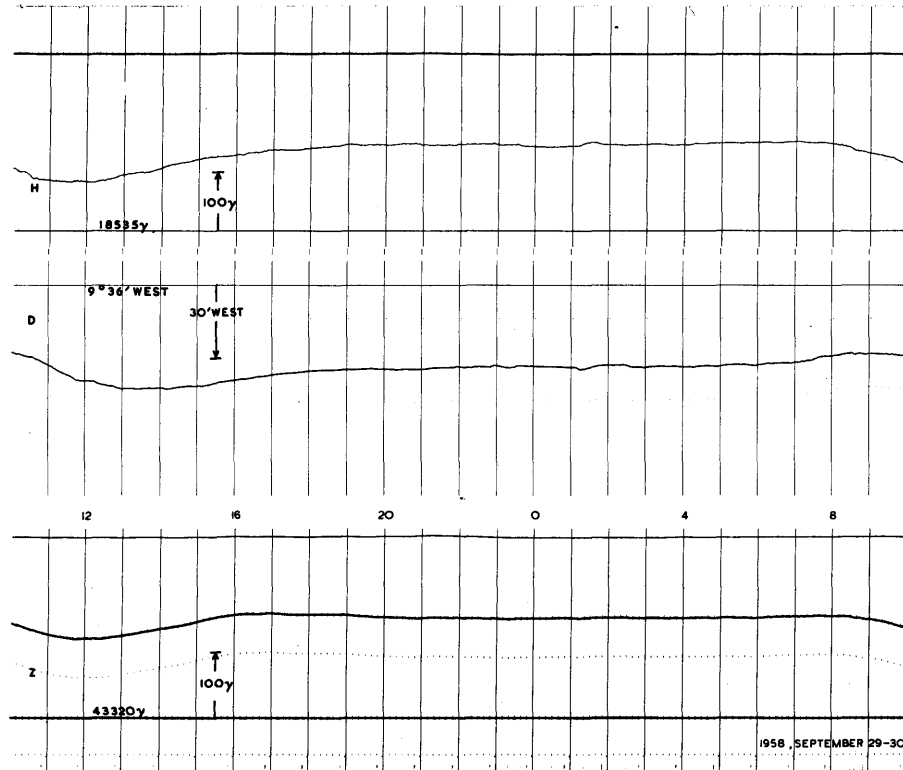


SEPTEMBER 27-28

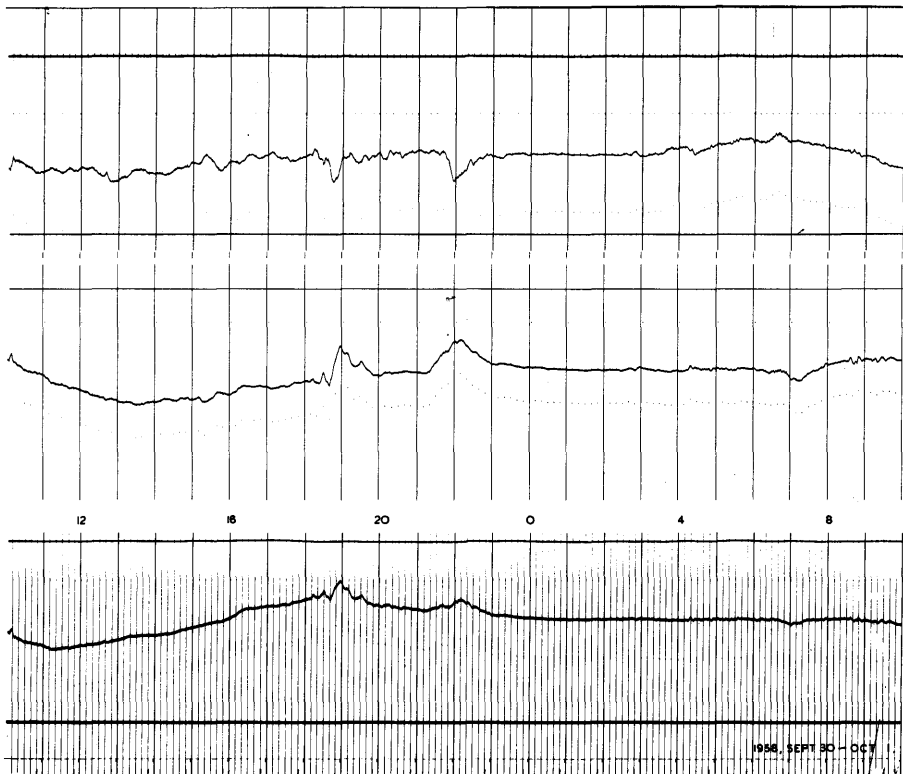


SEPTEMBER 28-29

1958

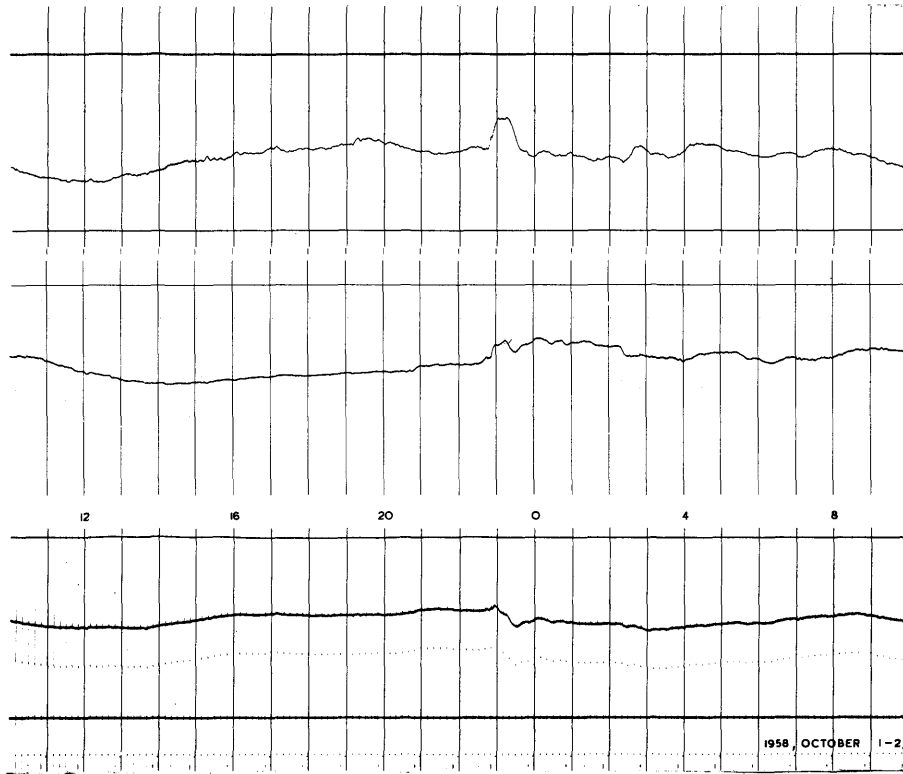


SEPTEMBER 29-30

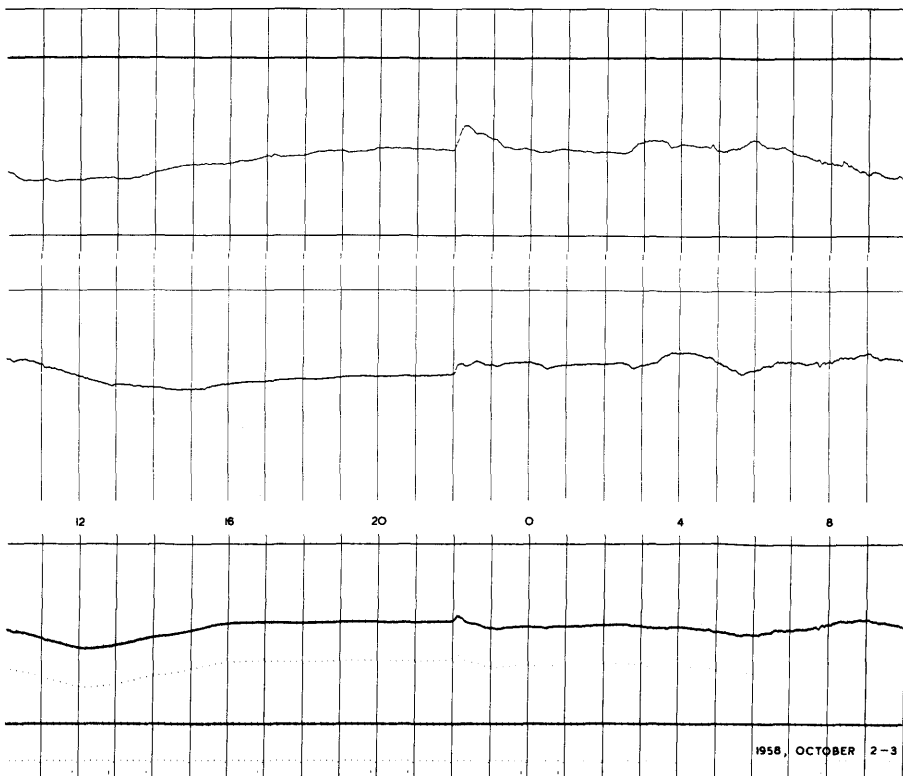


SEP. 30-OCT. 1

1958

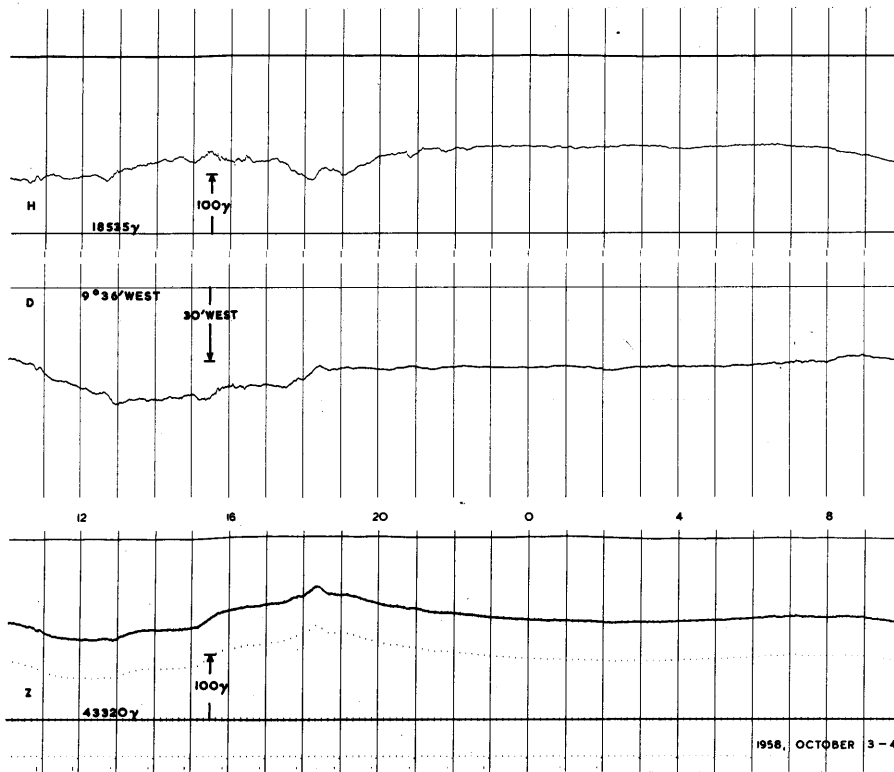


OCTOBER 1-2

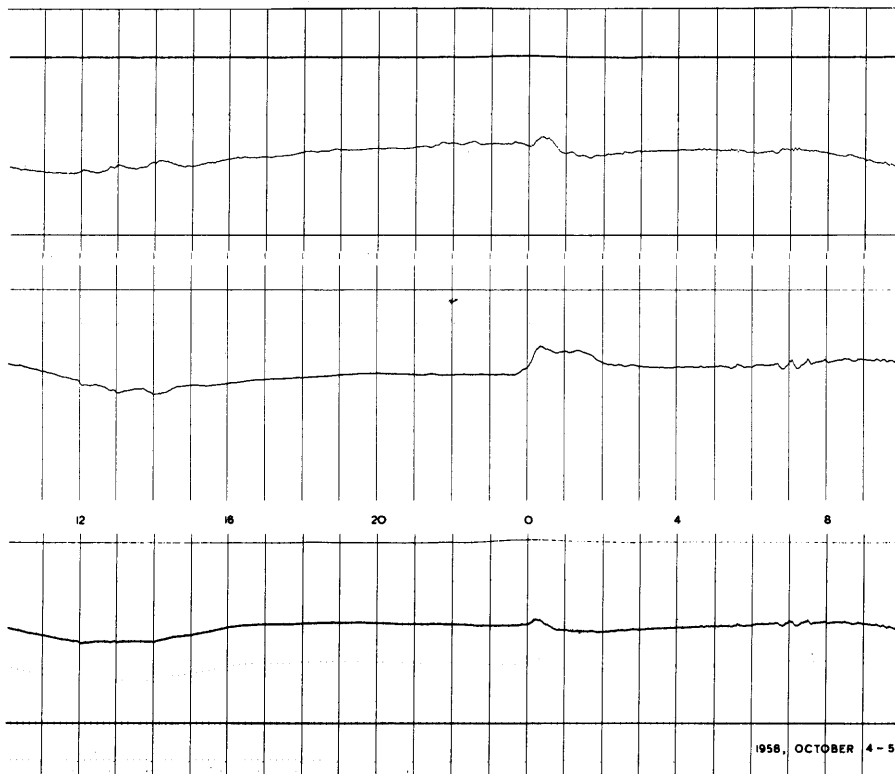


OCTOBER 2-3

1958



OCTOBER 3-4

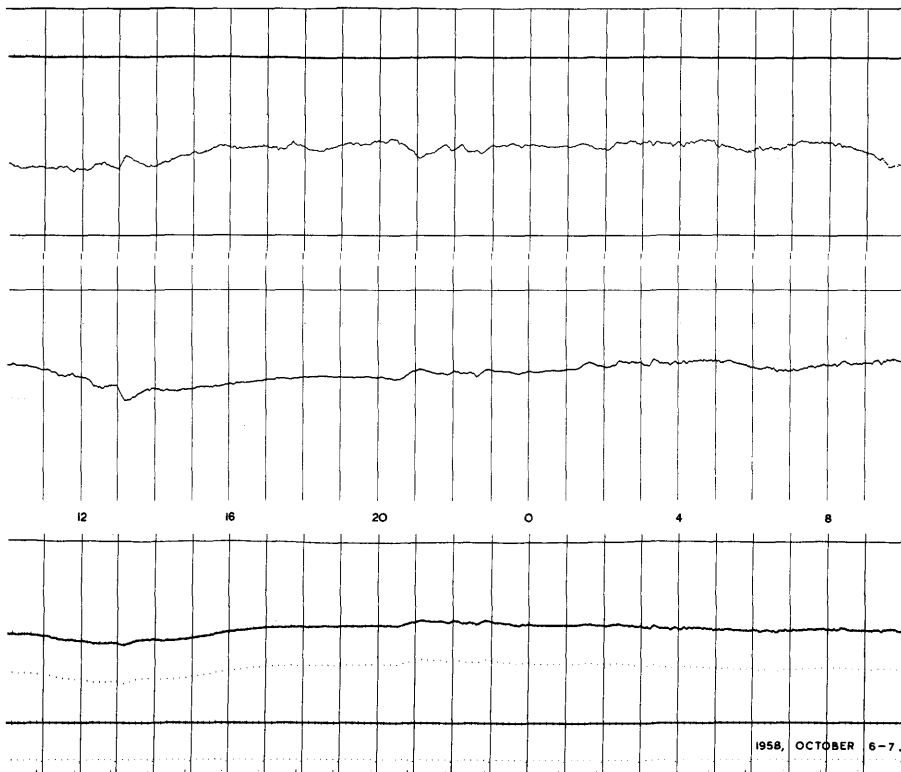


OCTOBER 4-5



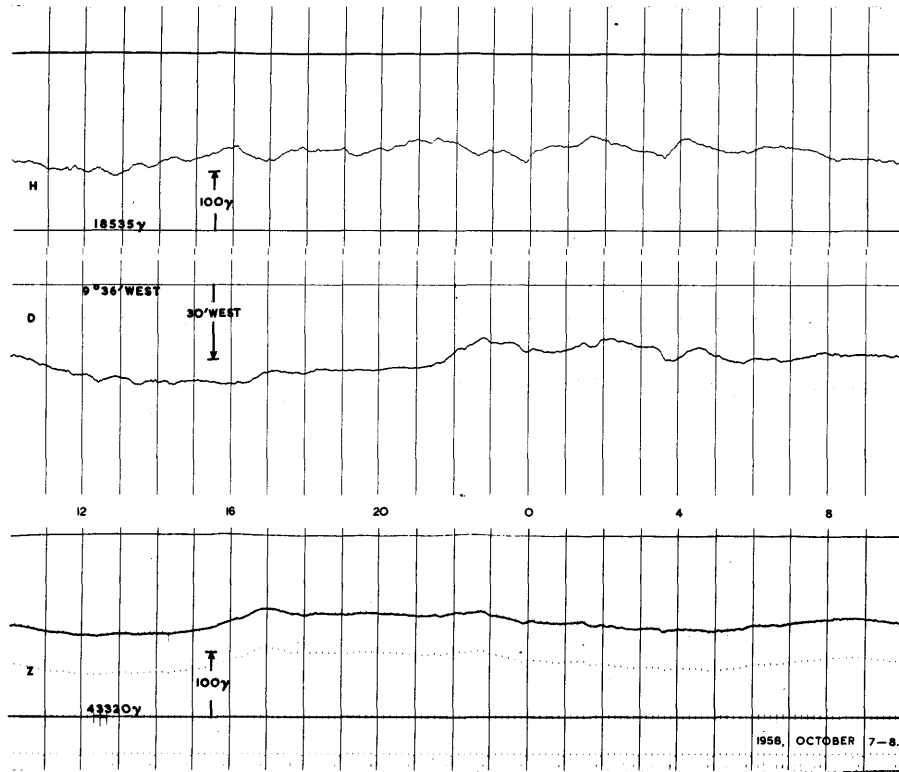
1958

OCTOBER 5-6

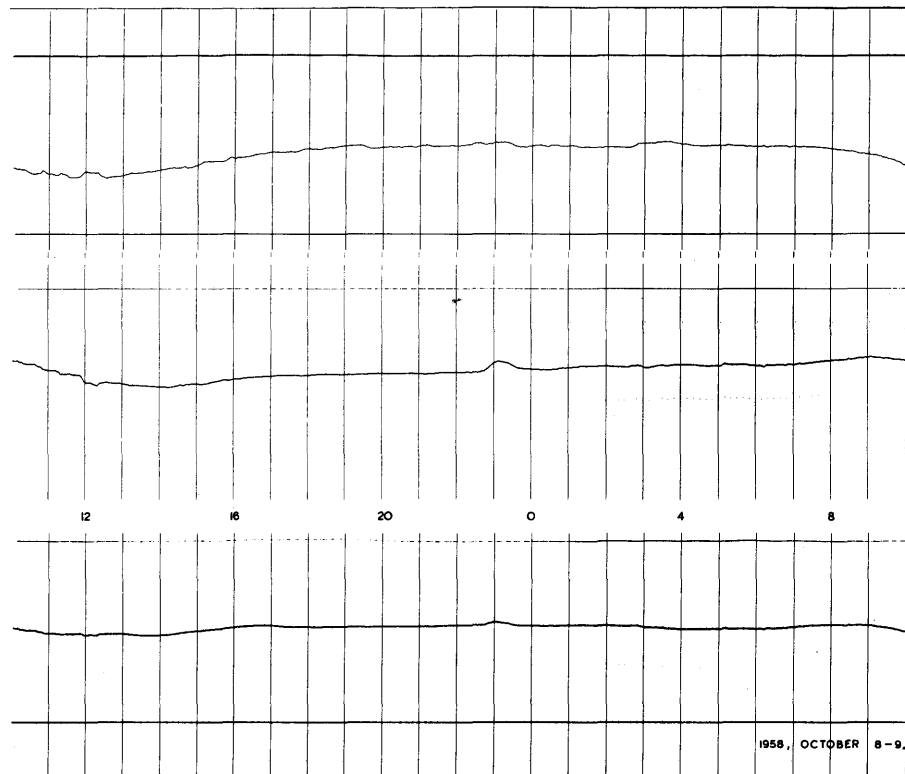


OCTOBER 6-7

1958

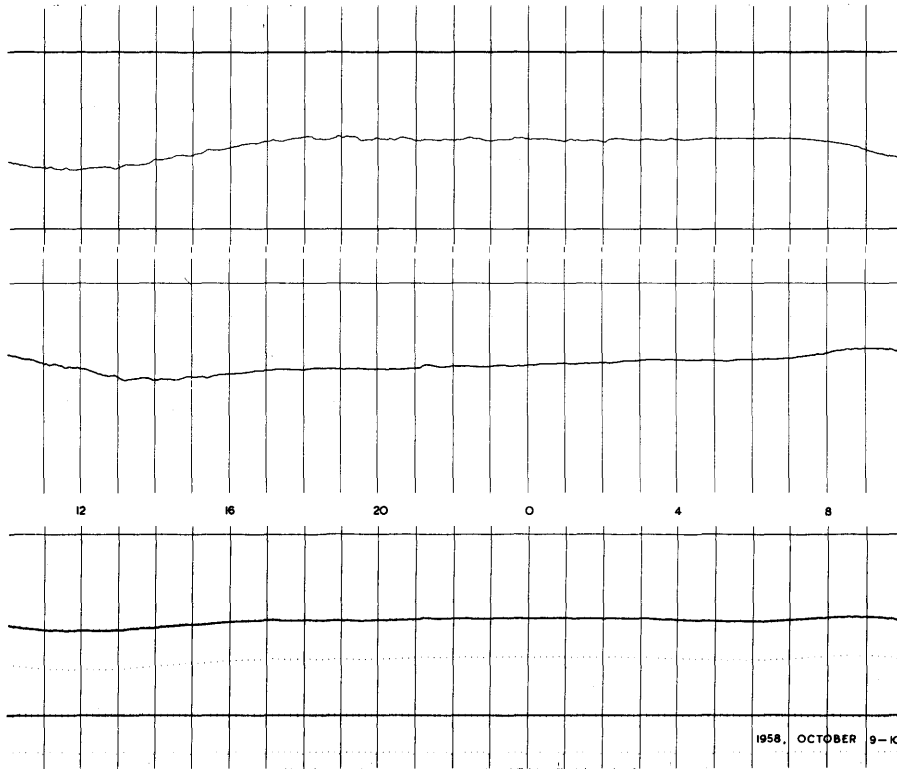


OCTOBER 7-8

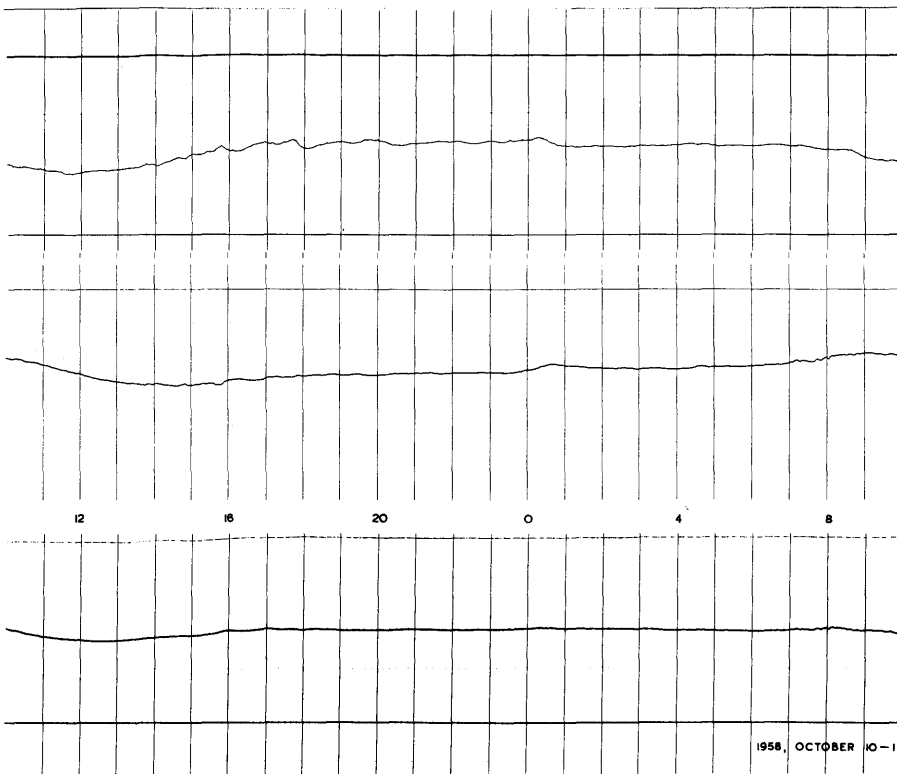


OCTOBER 8-9

1958

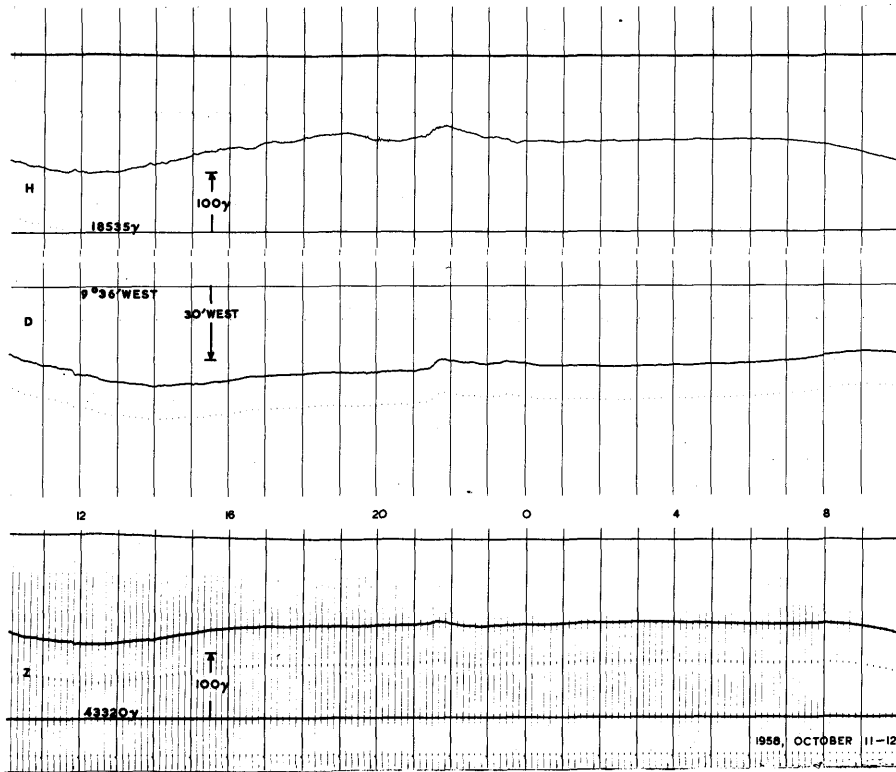


OCTOBER 9-10

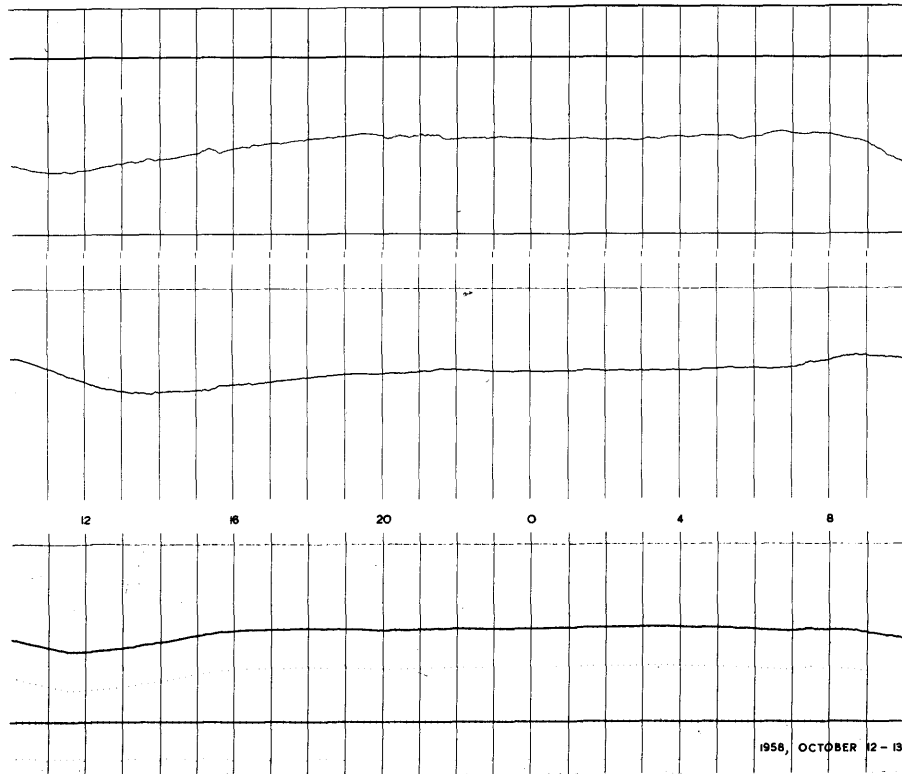


OCTOBER 10-11

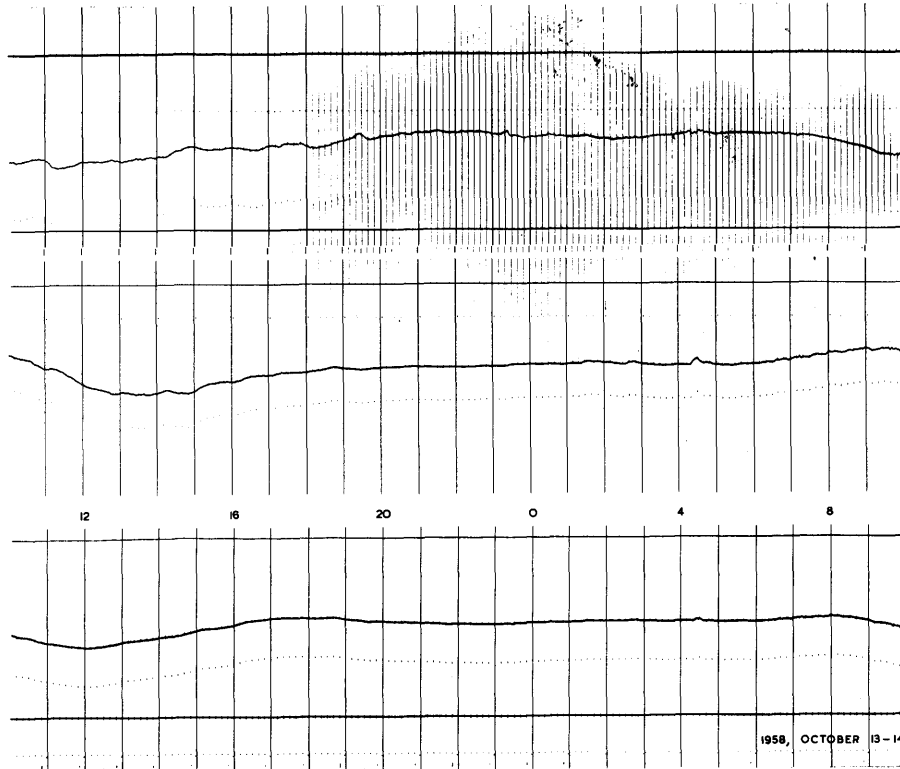
1958



OCTOBER 11-12

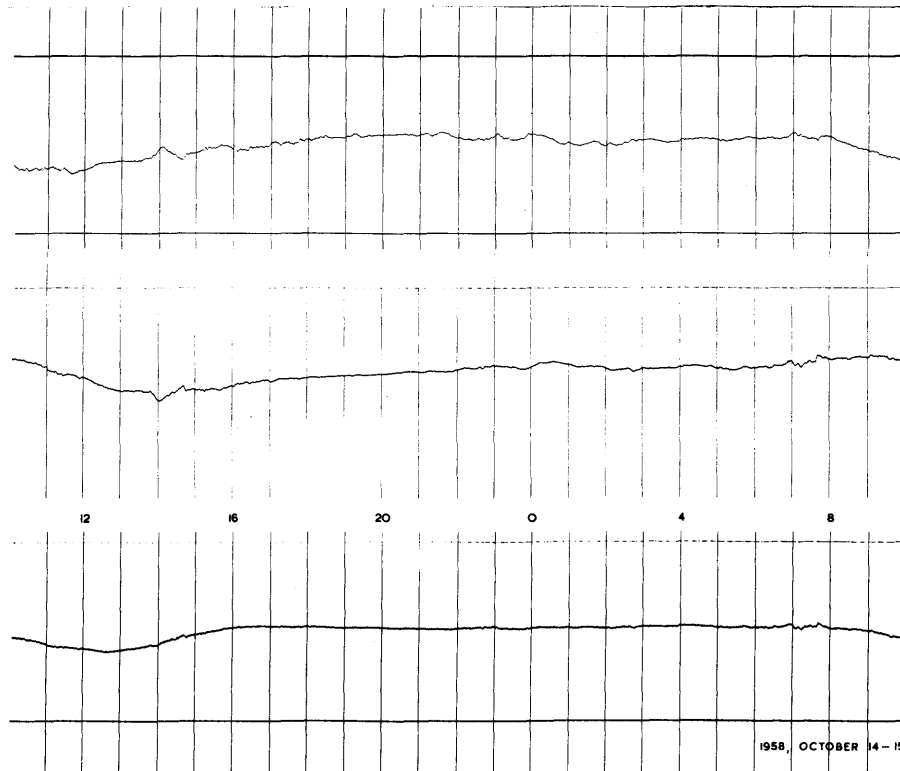


OCTOBER 12-13



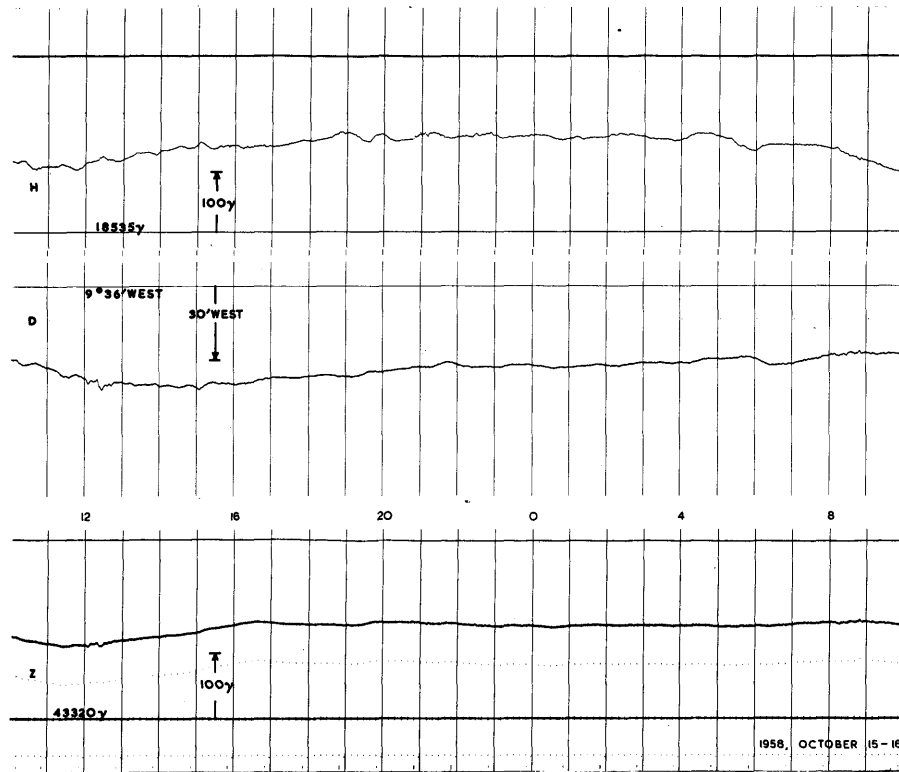
1958

OCTOBER 13-14

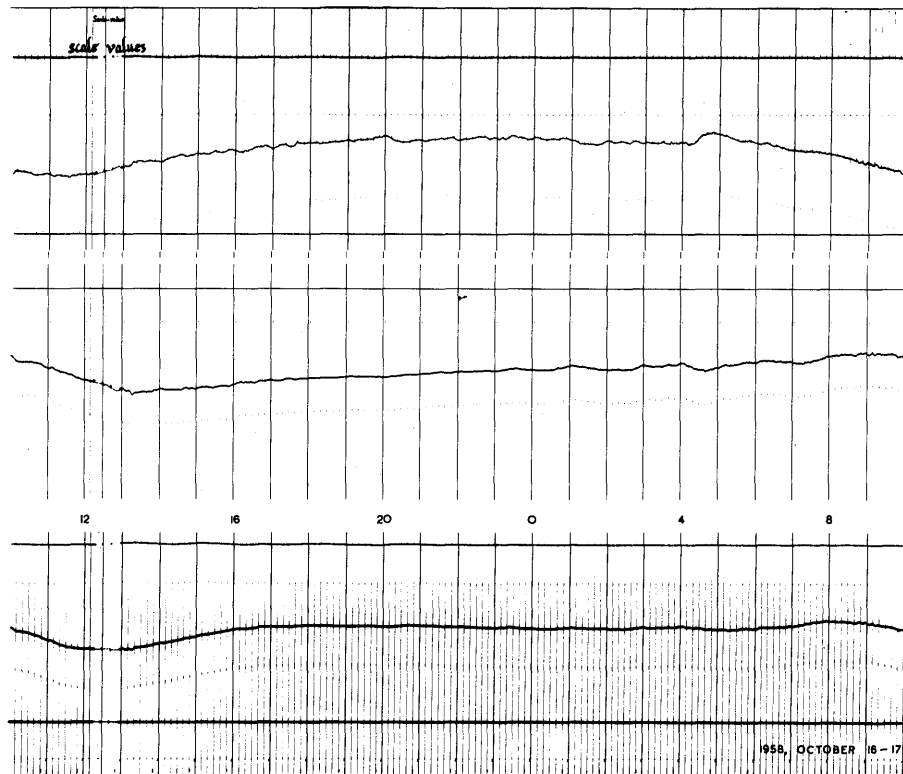


OCTOBER 14-15

1958



OCTOBER 15-16



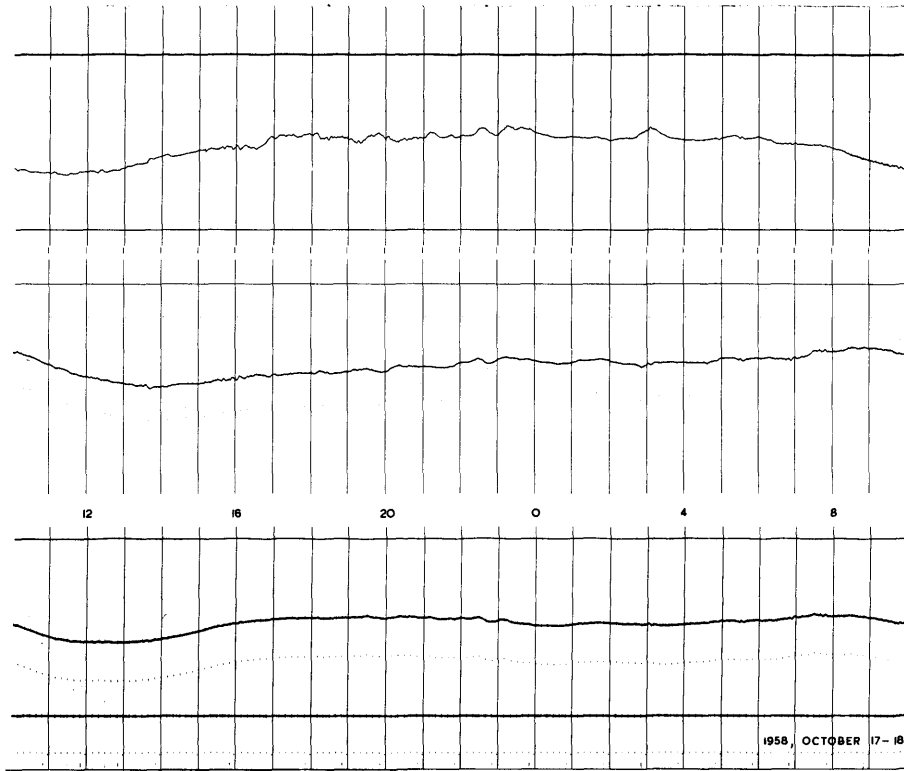
OCTOBER 16-17

1965]

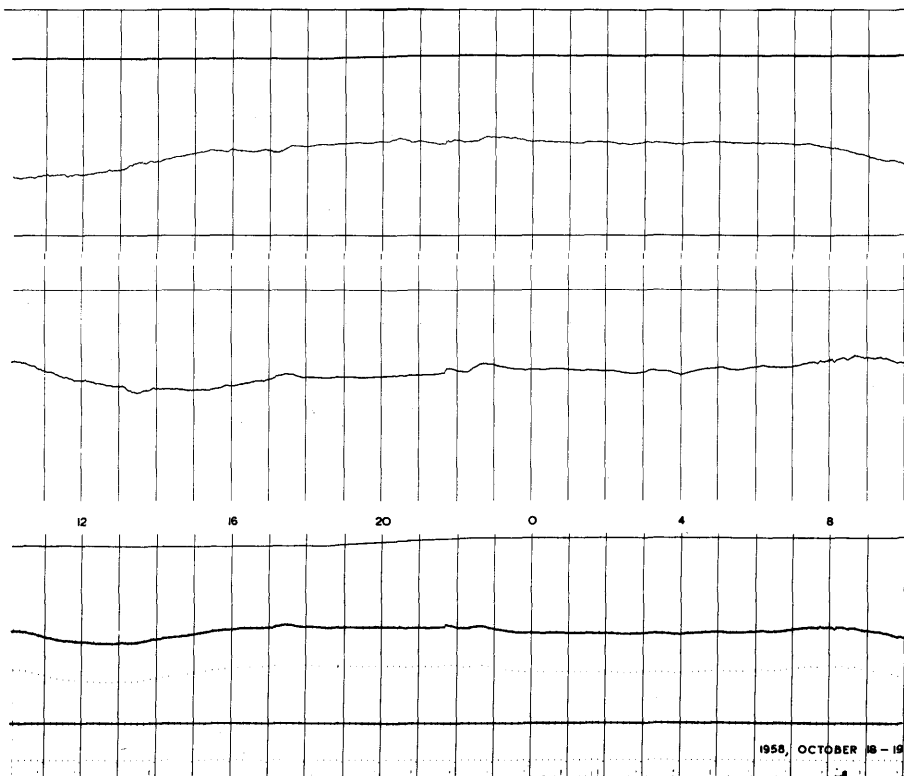
MAGNETIC RESULTS 1958 (HARTLAND)

D205

1958

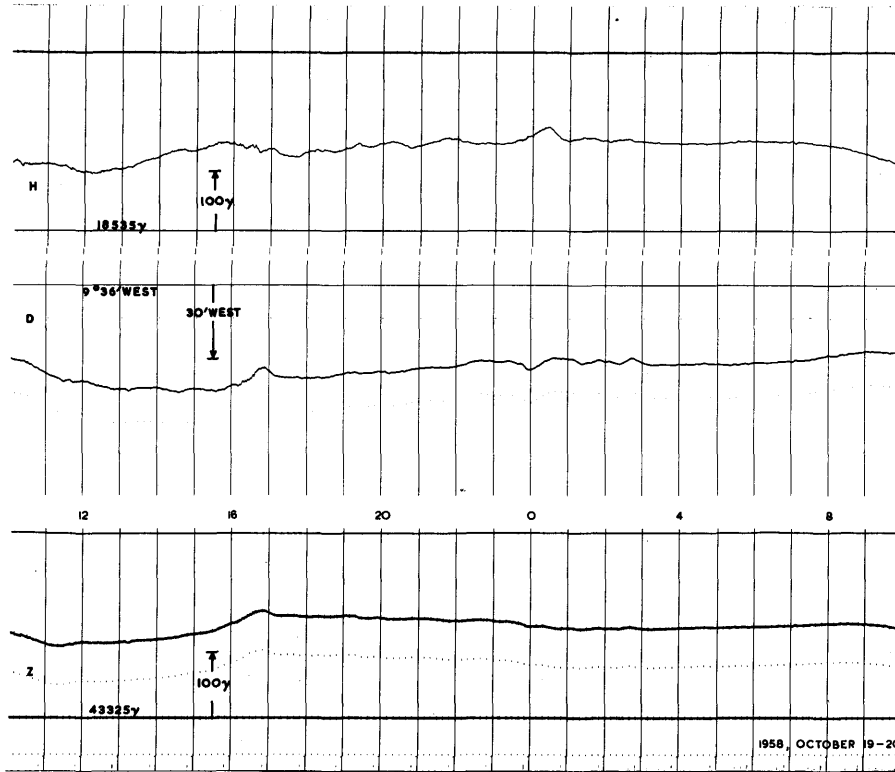


OCTOBER 17-18

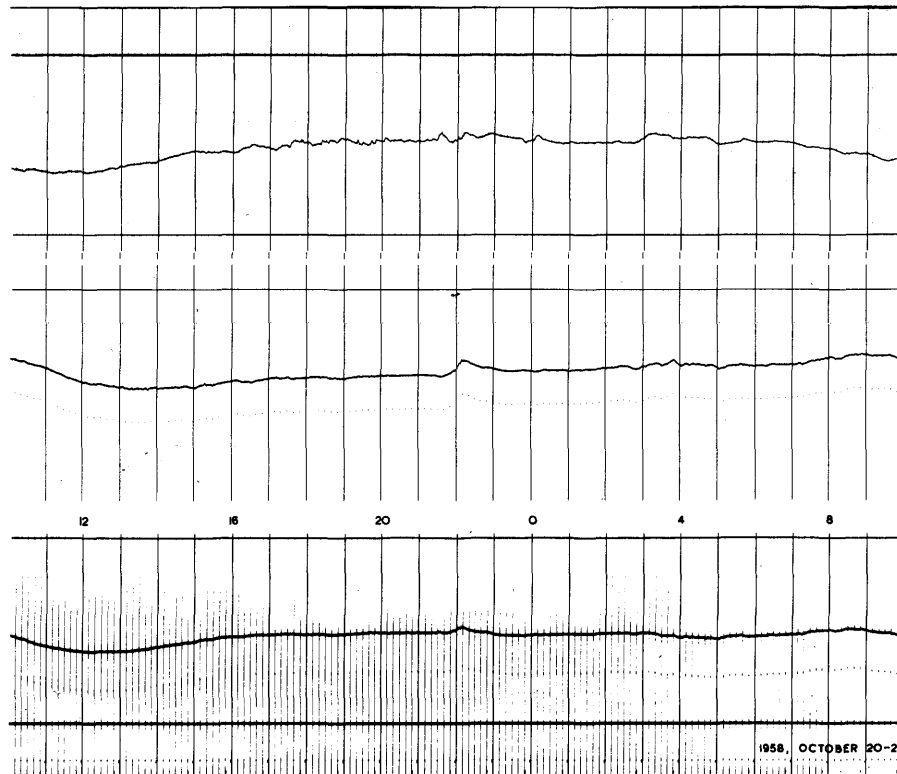


OCTOBER 18-19

1958



OCTOBER 19-20



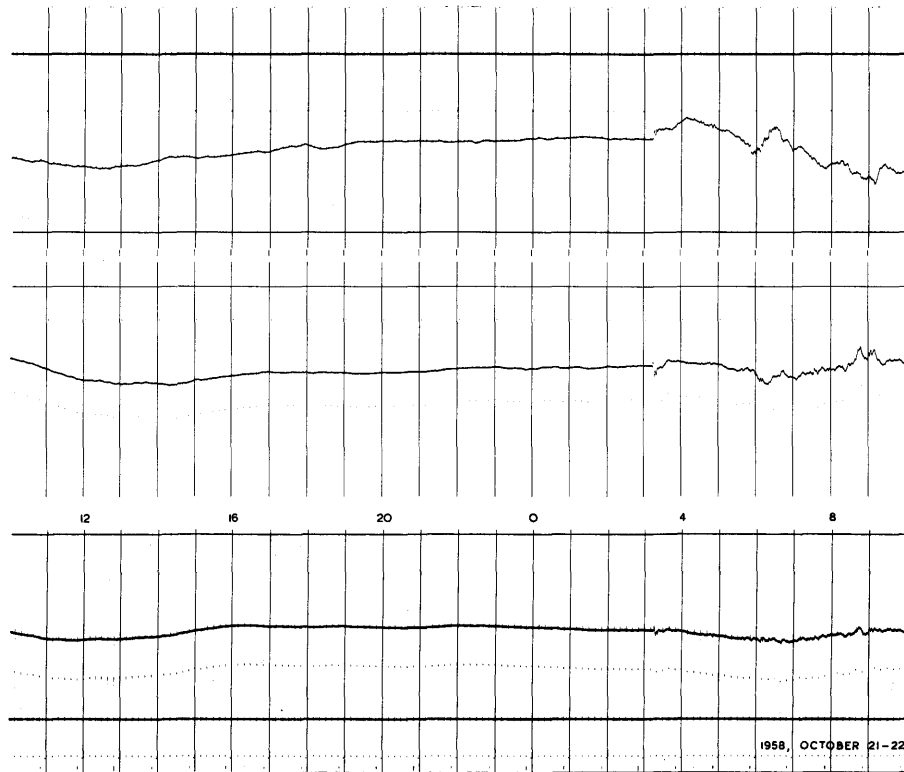
OCTOBER 20-21

1965]

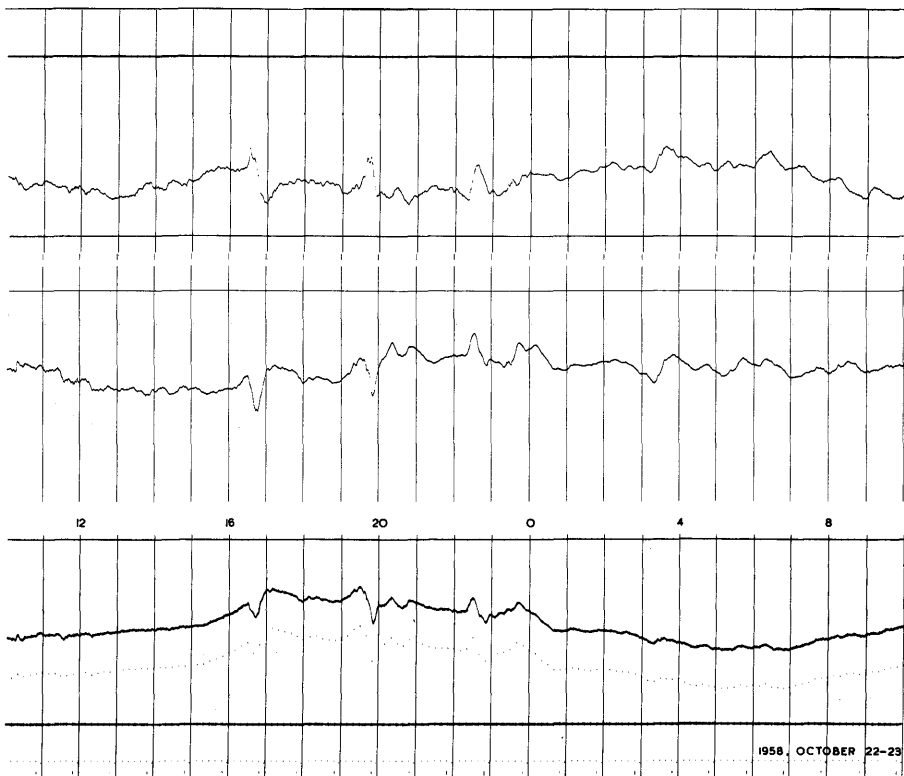
MAGNETIC RESULTS 1958 (HARTLAND)

D207

1958

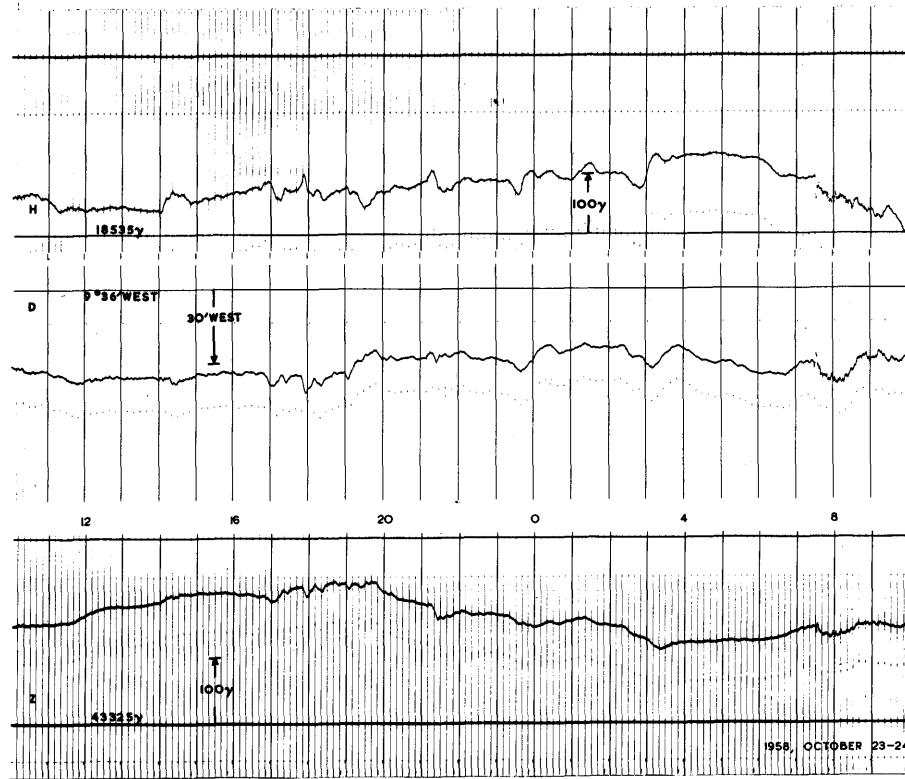


OCTOBER 21-22

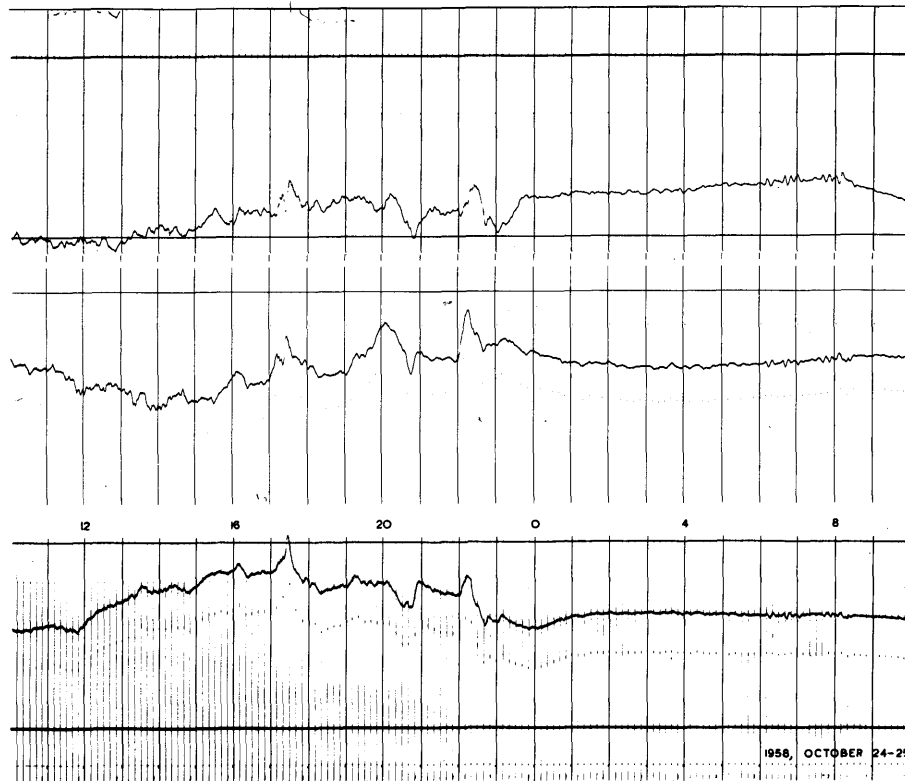


OCTOBER 22-23

1958



OCTOBER 23-24



OCTOBER 24-25

1965]

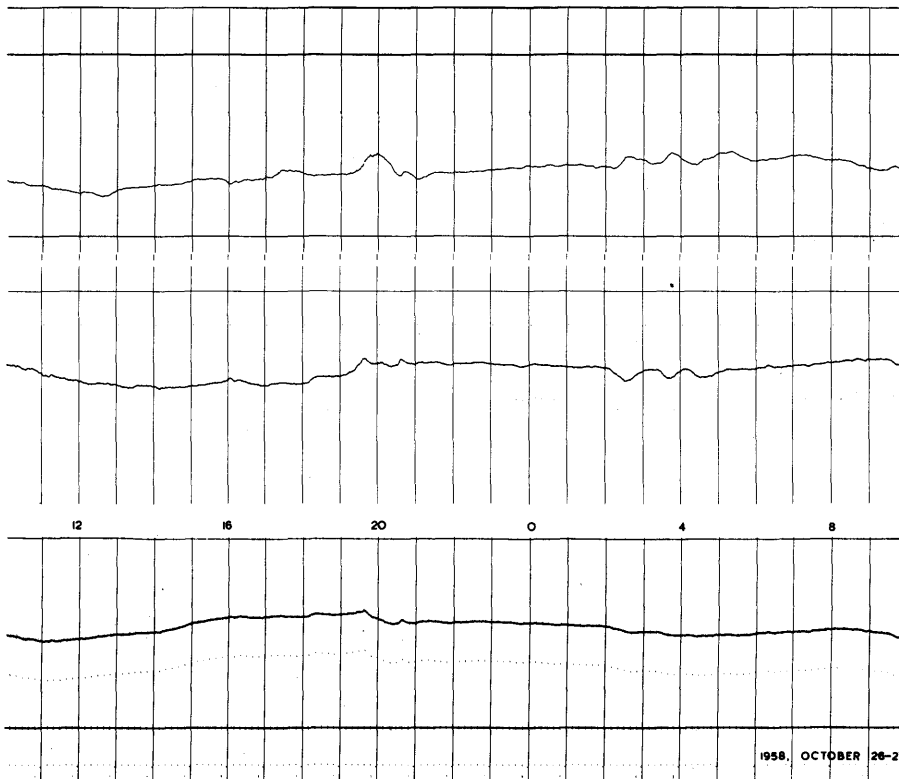
MAGNETIC RESULTS 1958 (HARTLAND)

D209

1958

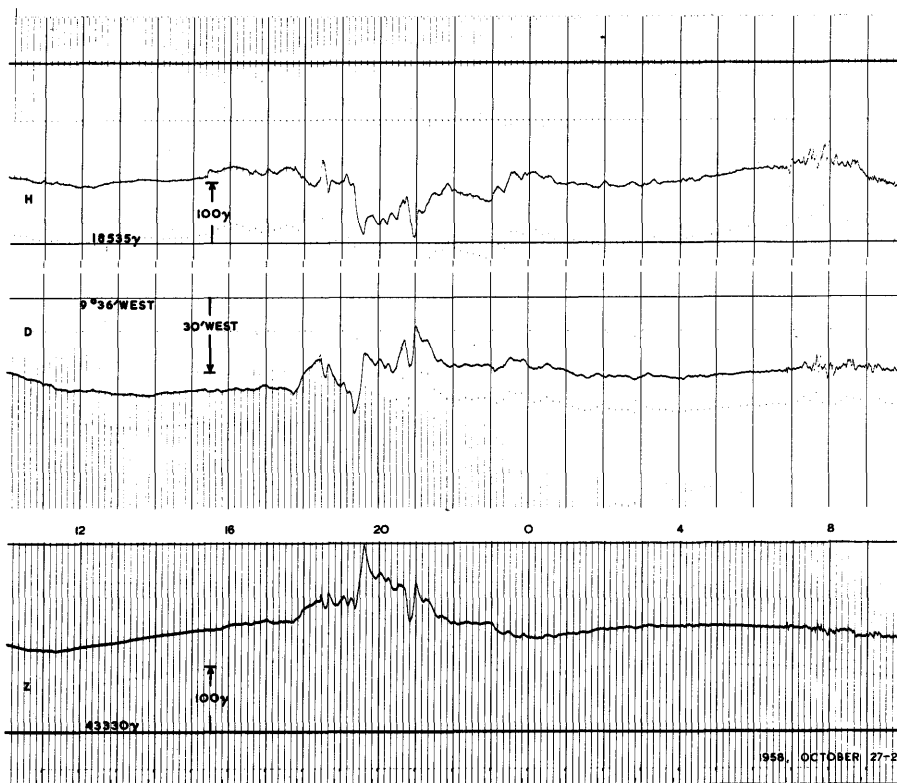


OCTOBER 25-26

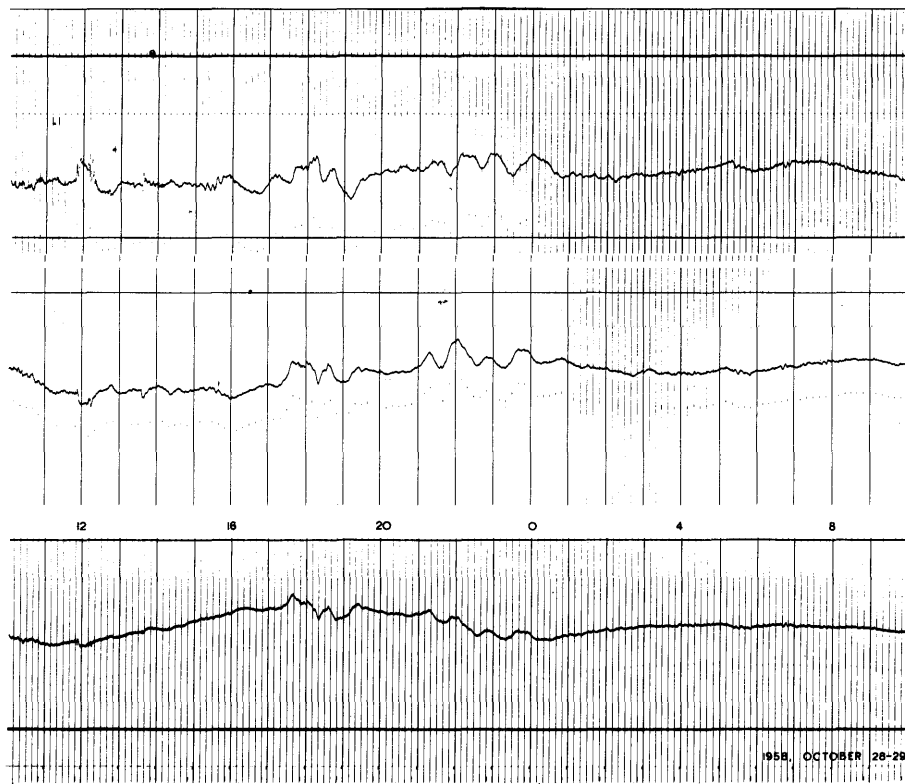


OCTOBER 26-27

1958

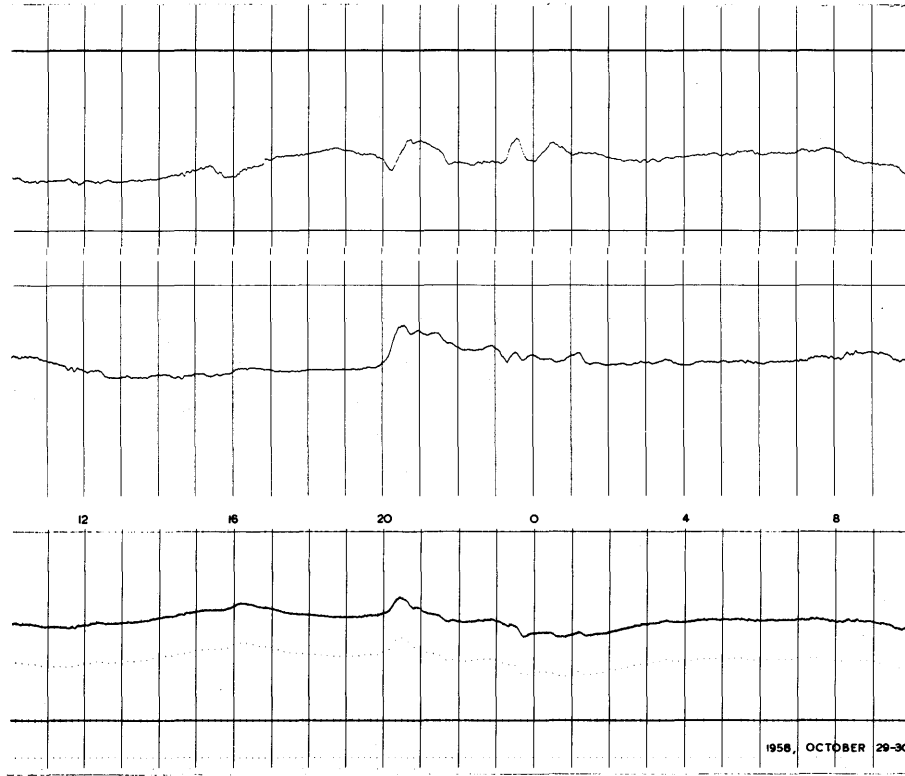


OCTOBER 27-28

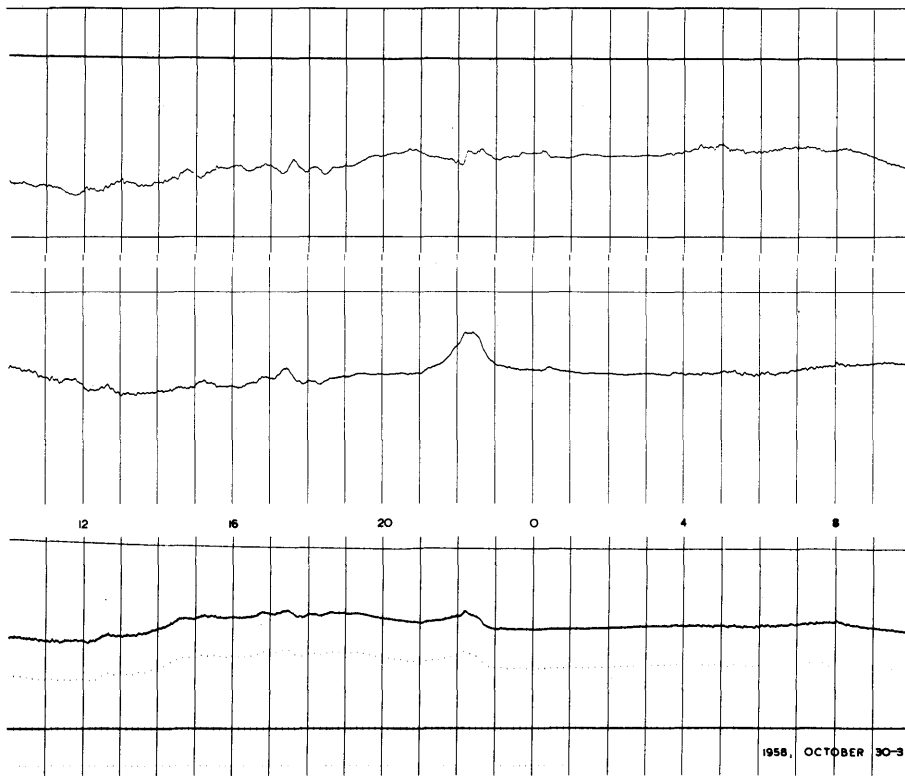


OCTOBER 28-29

1958

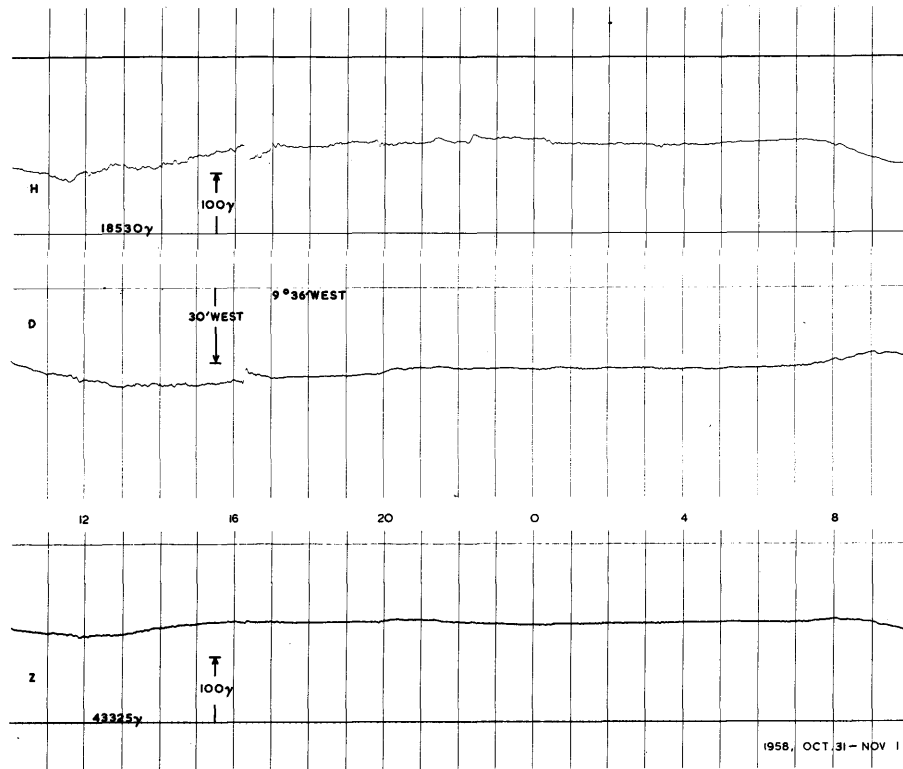


OCTOBER 29-30

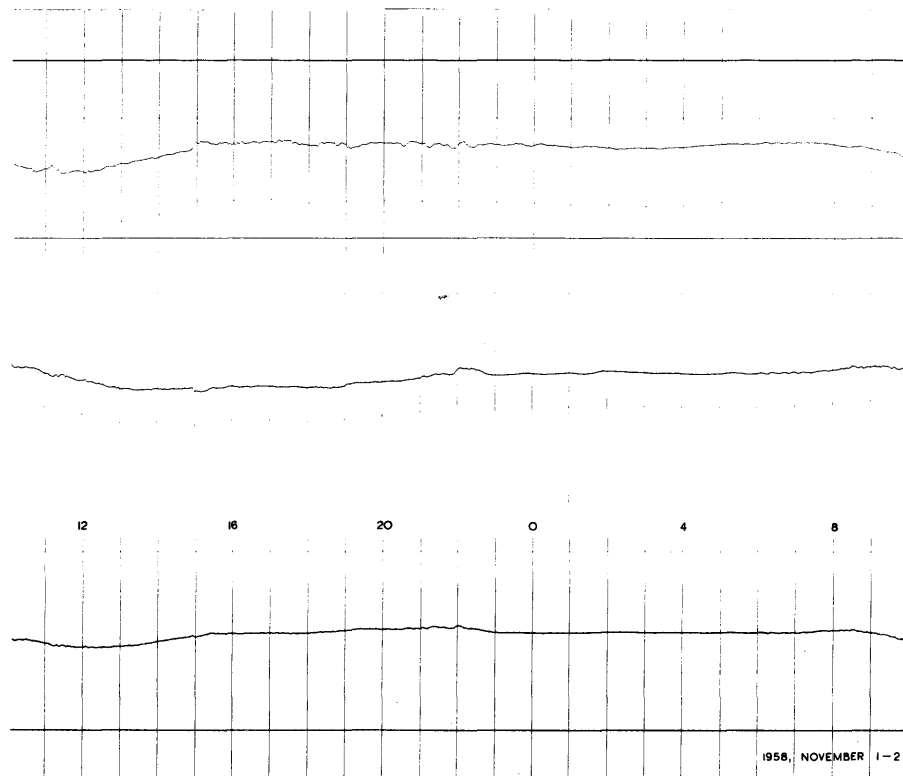


OCTOBER 30-31

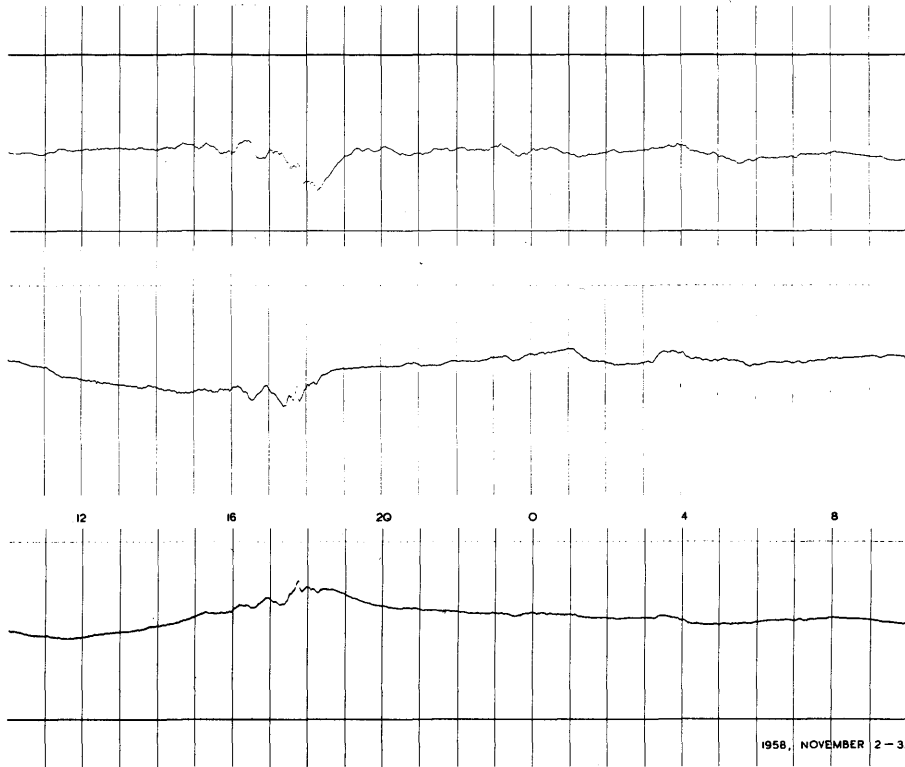
1958



OCT. 31-NOV. 1

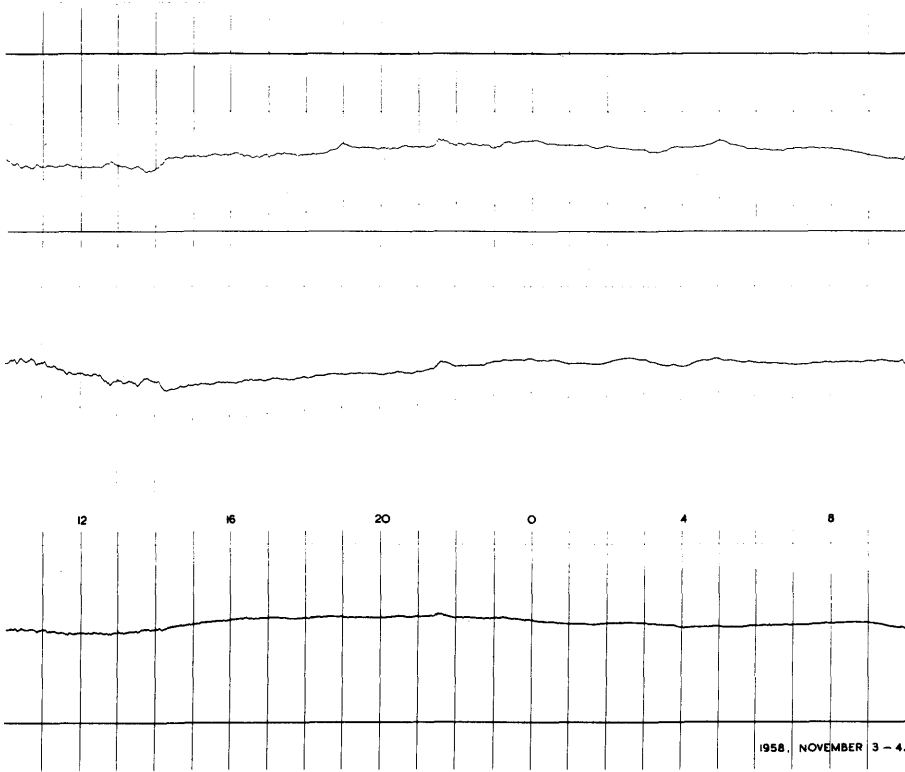


NOVEMBER 1-2



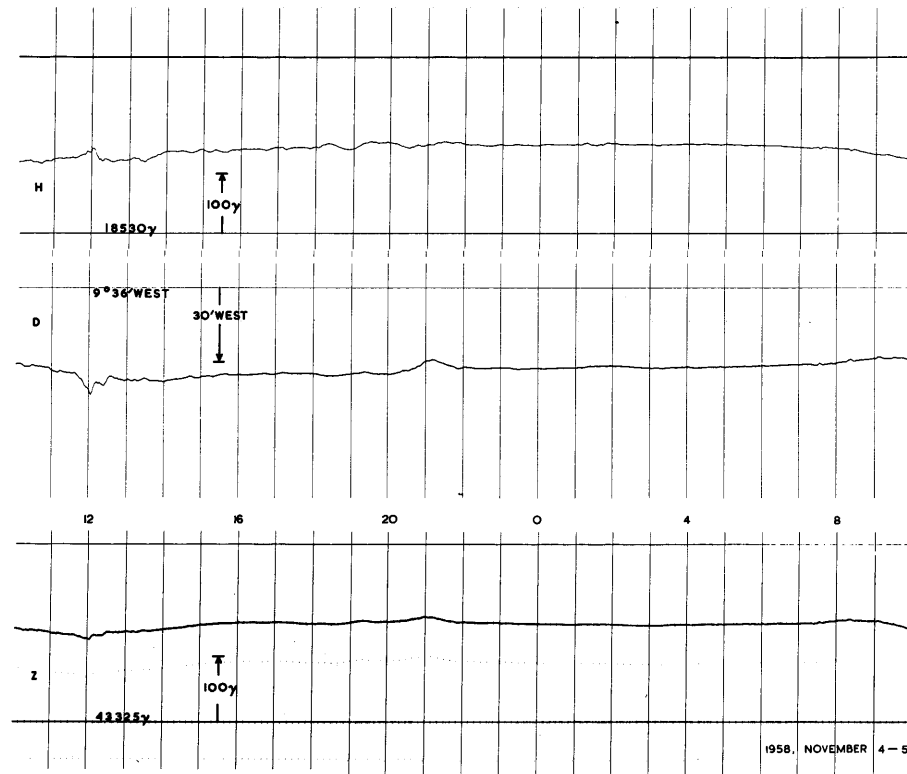
1958

NOVEMBER 2-3

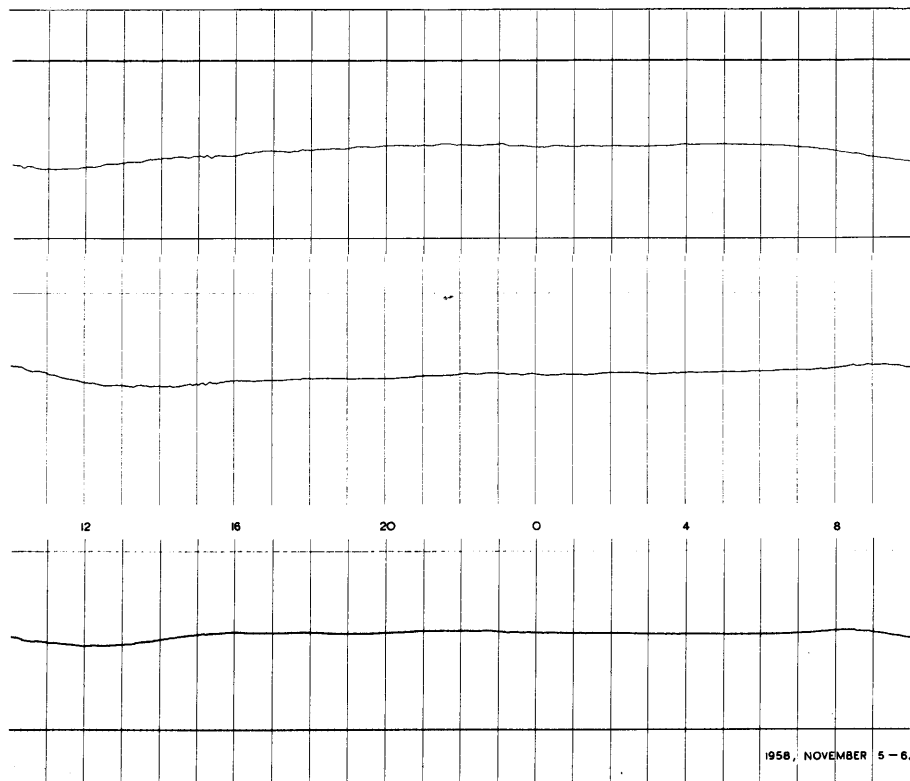


NOVEMBER 3-4

1958



NOVEMBER 4-5



NOVEMBER 5-6

1965]

MAGNETIC RESULTS 1958 (HARTLAND)

D215

1958

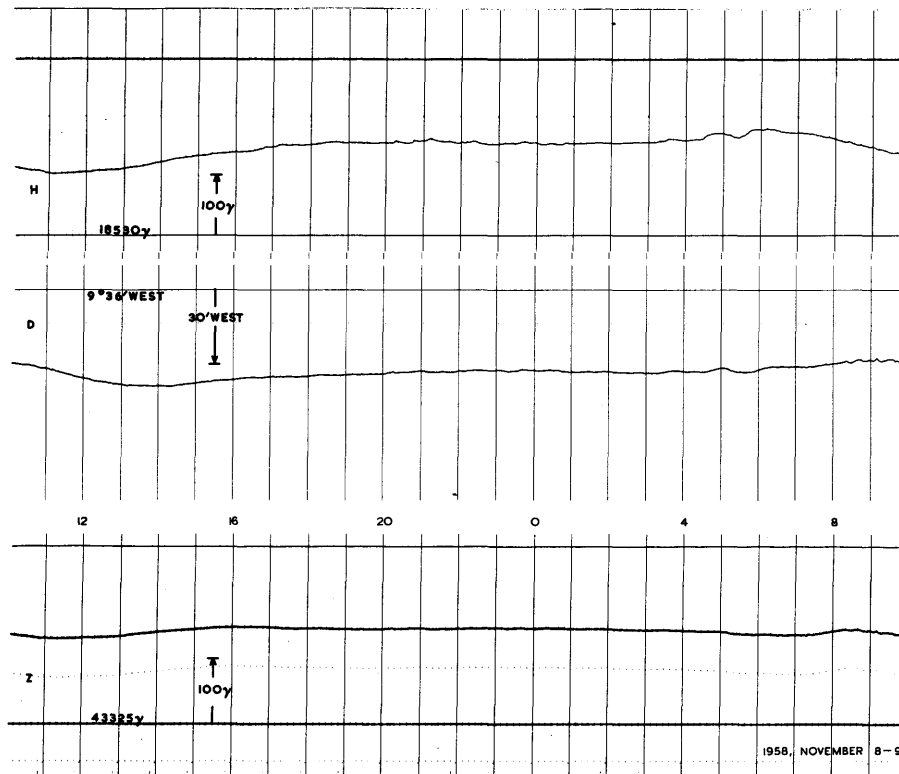


NOVEMBER 6-7

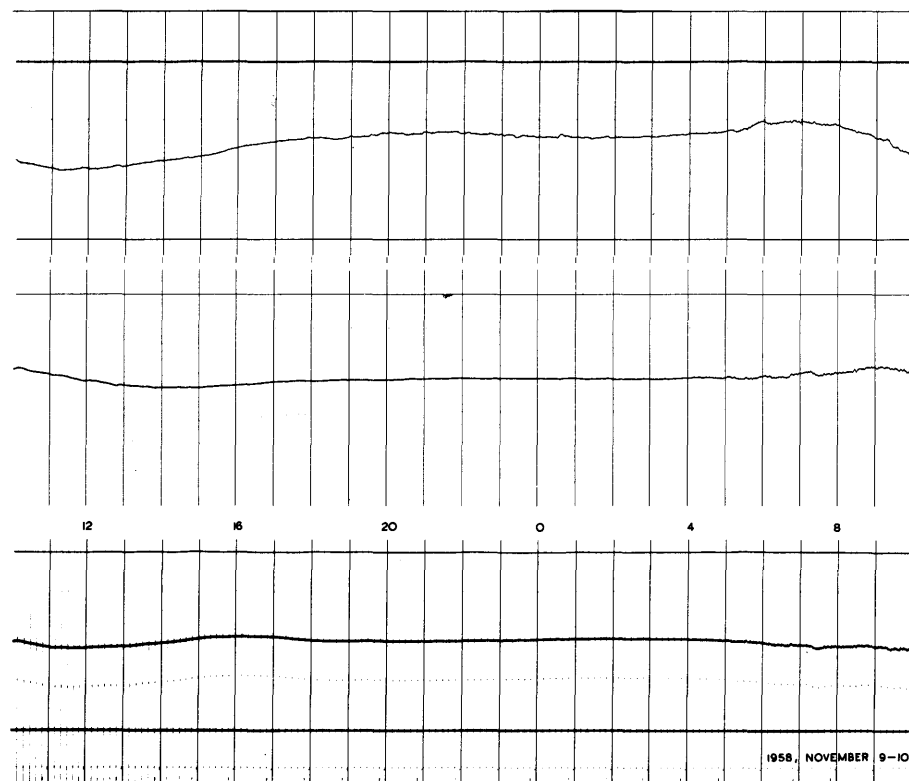


NOVEMBER 7-8

1958

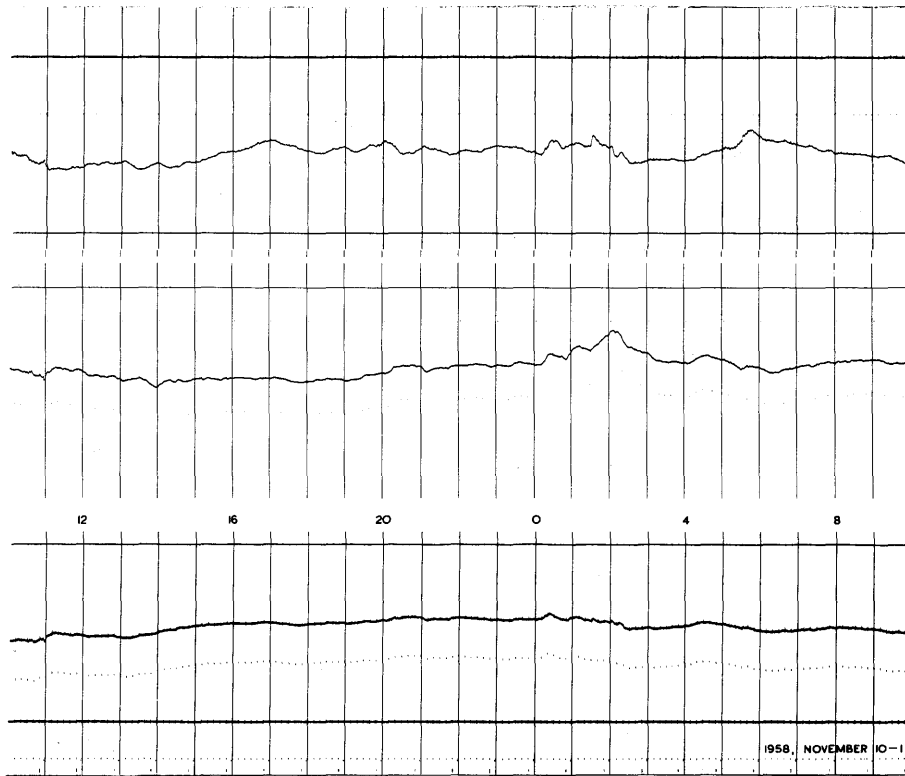


NOVEMBER 8-9



NOVEMBER 9-10

1958

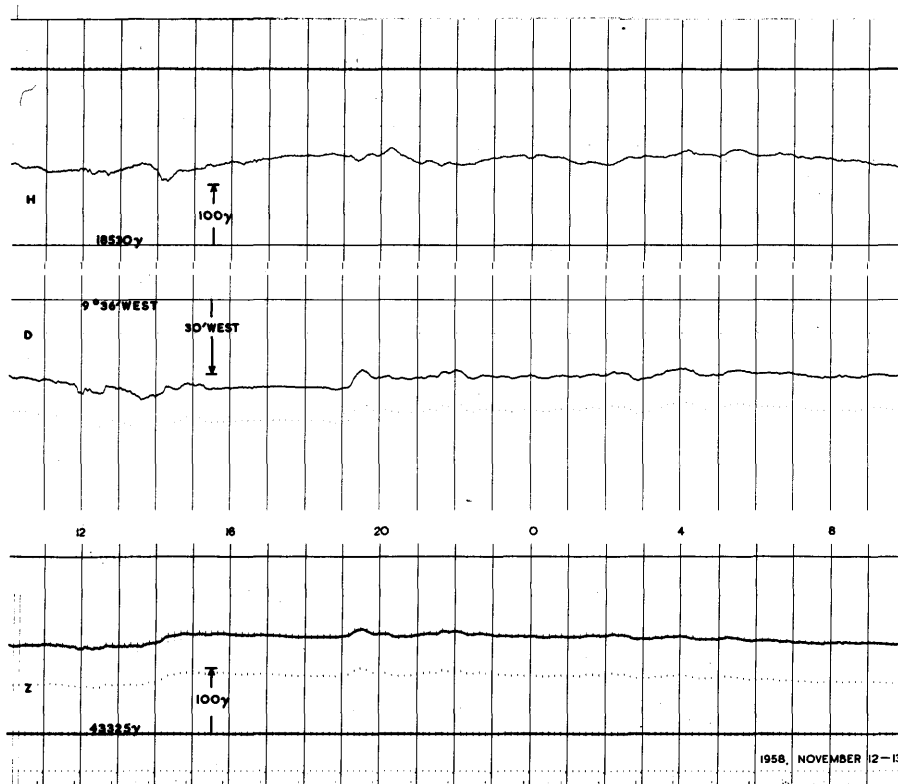


NOVEMBER 10-11

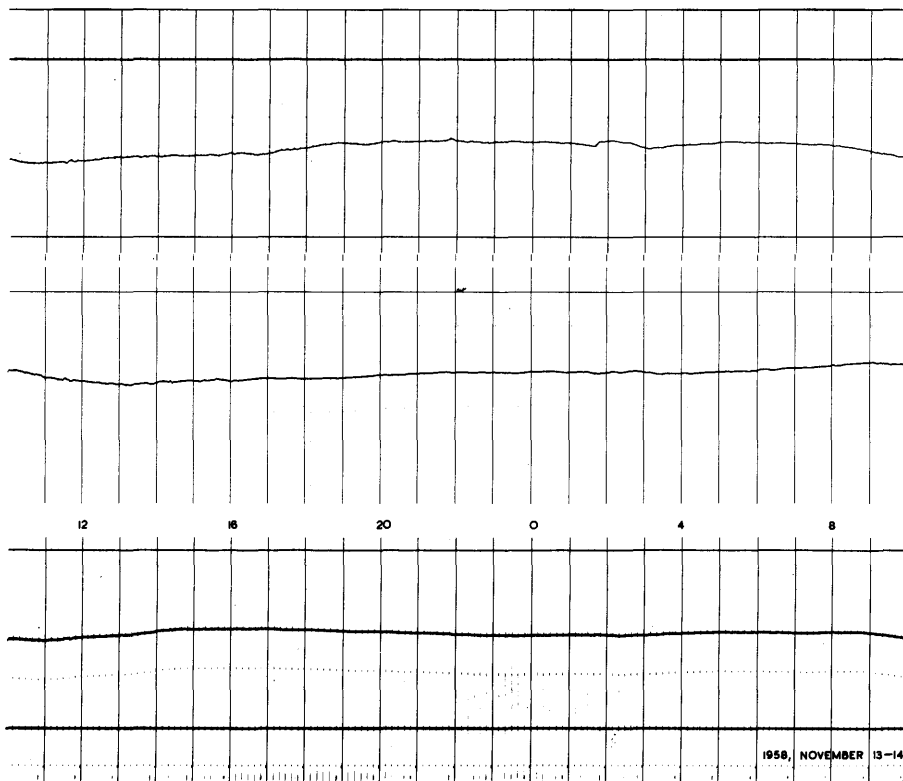


NOVEMBER 11-12

1958

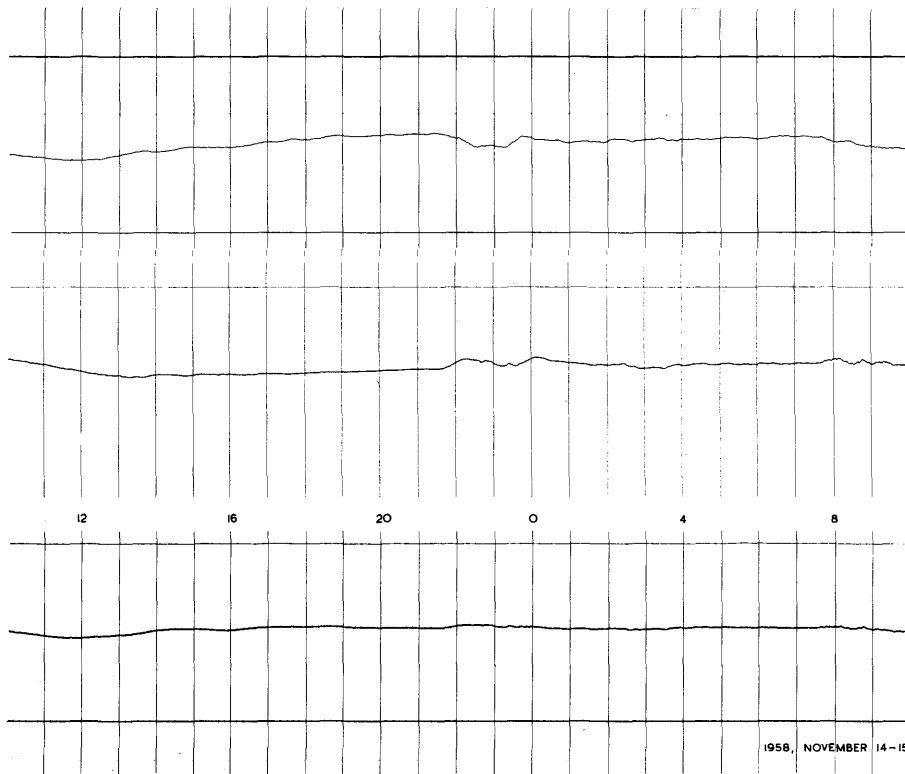


NOVEMBER 12-13

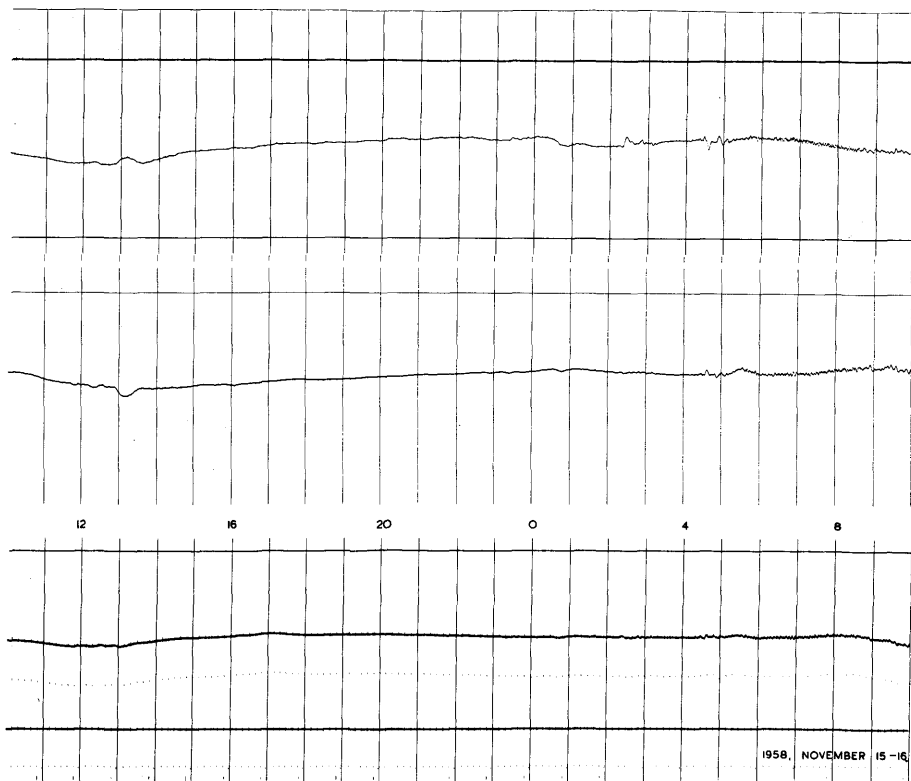


NOVEMBER 13-14

1958

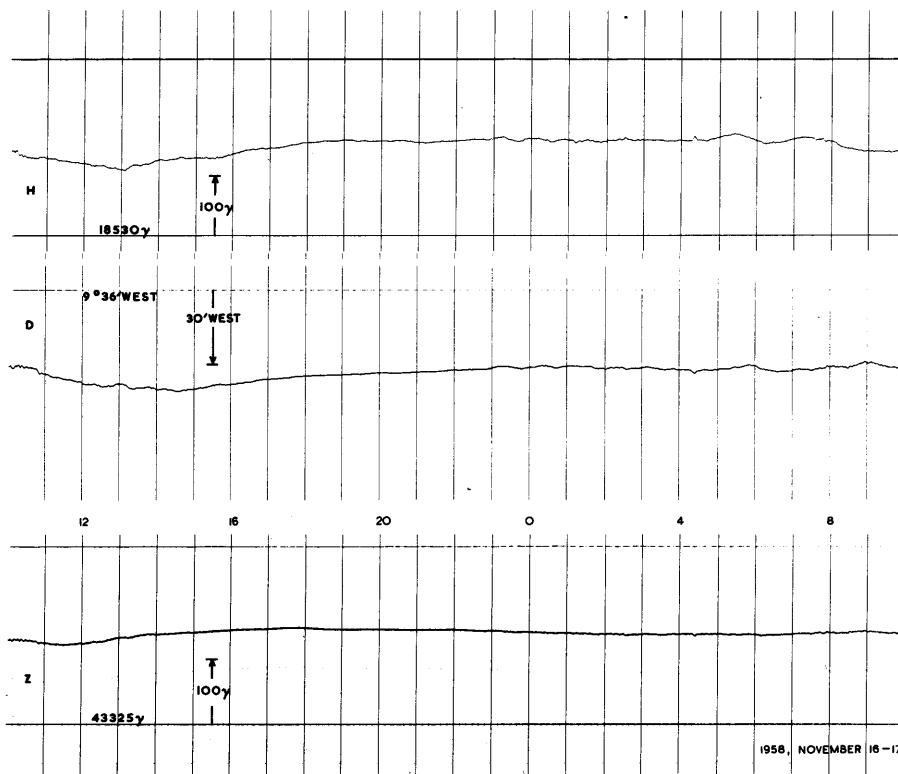


NOVEMBER 14-15

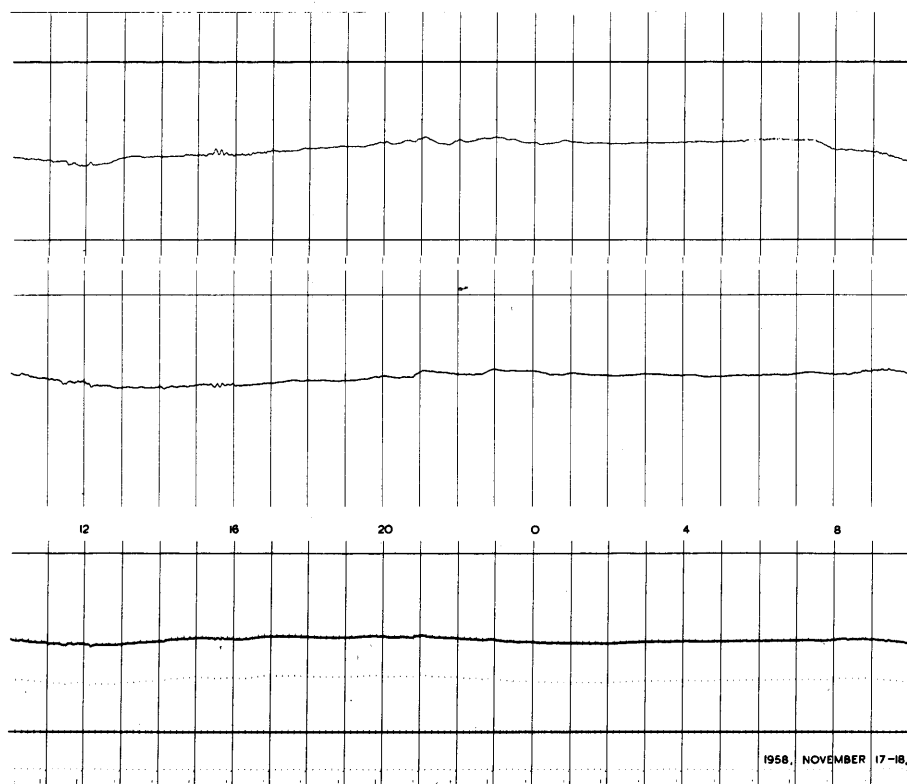


NOVEMBER 15-16

1958

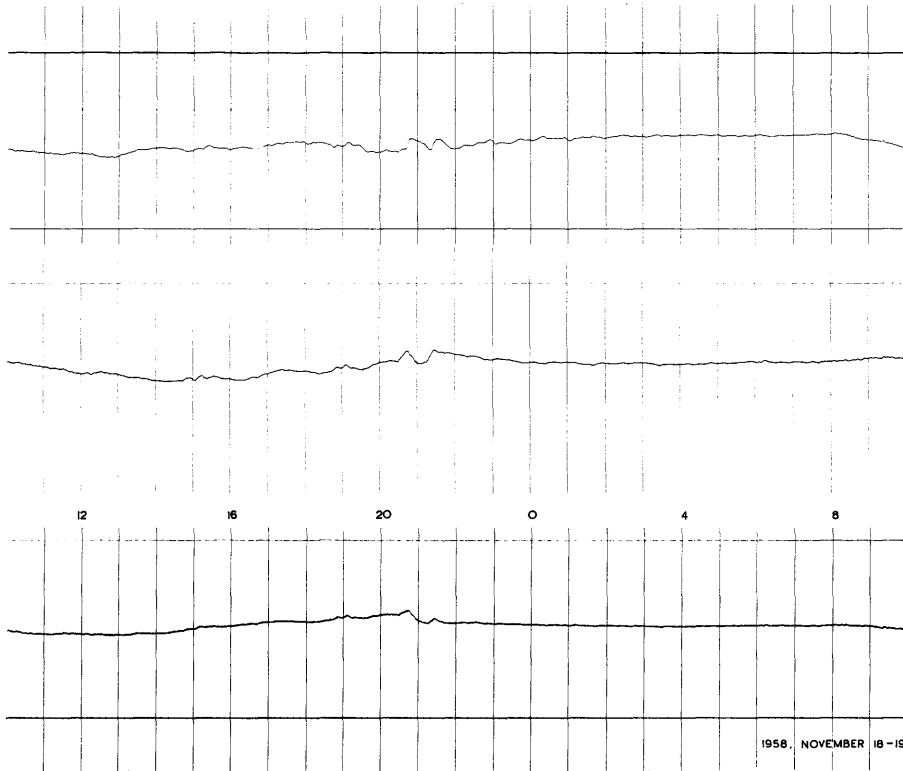


NOVEMBER 16-17

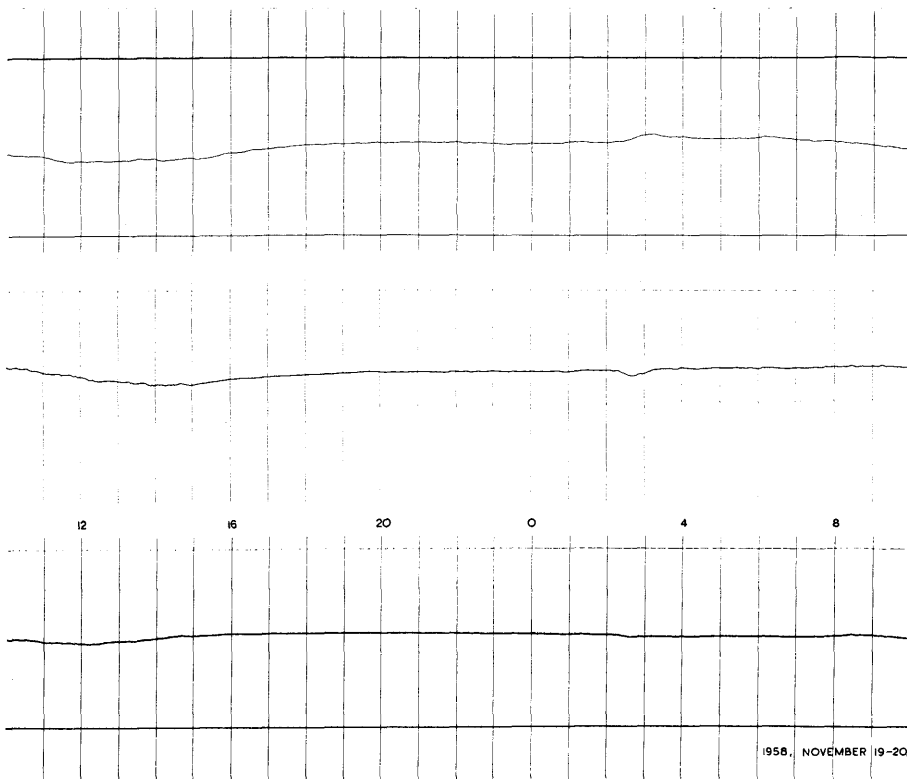


NOVEMBER 17-18

1958

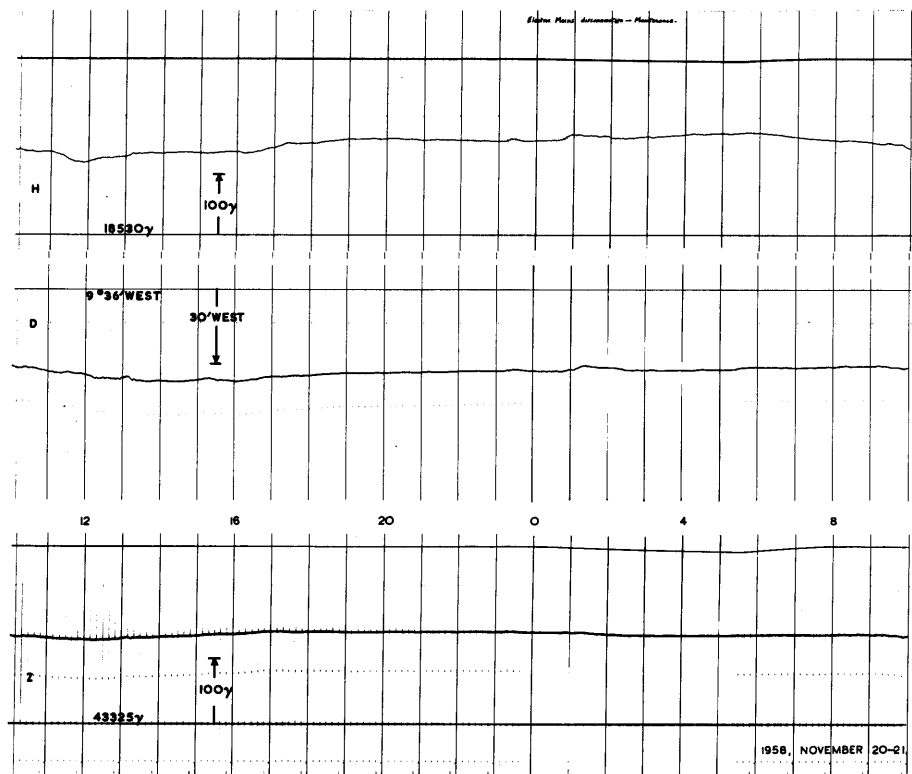


NOVEMBER 18-19

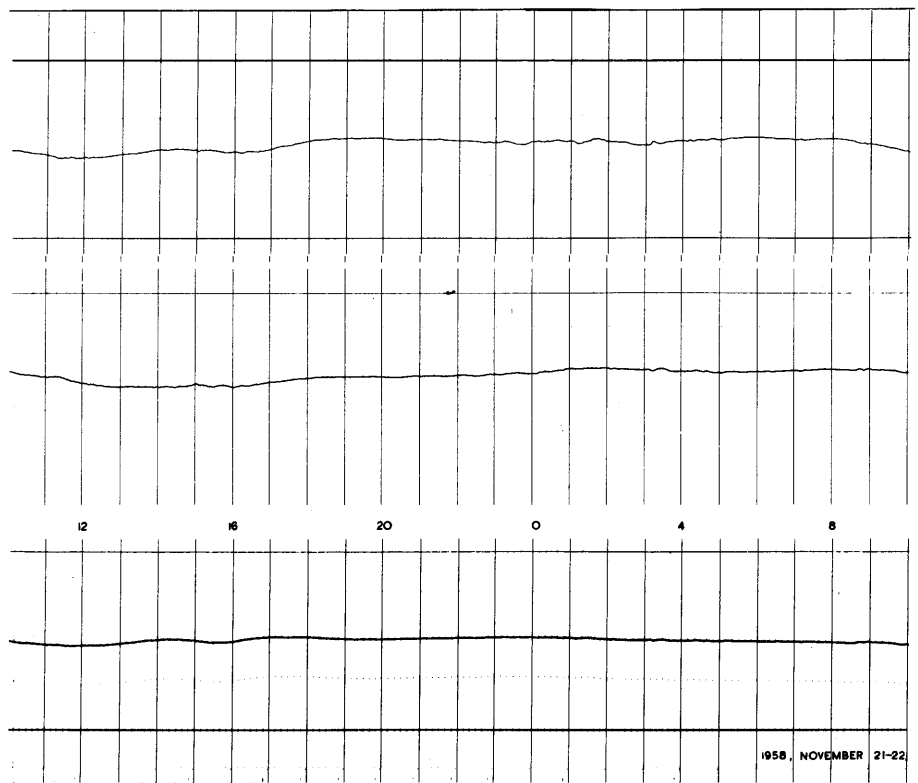


NOVEMBER 19-20

1958

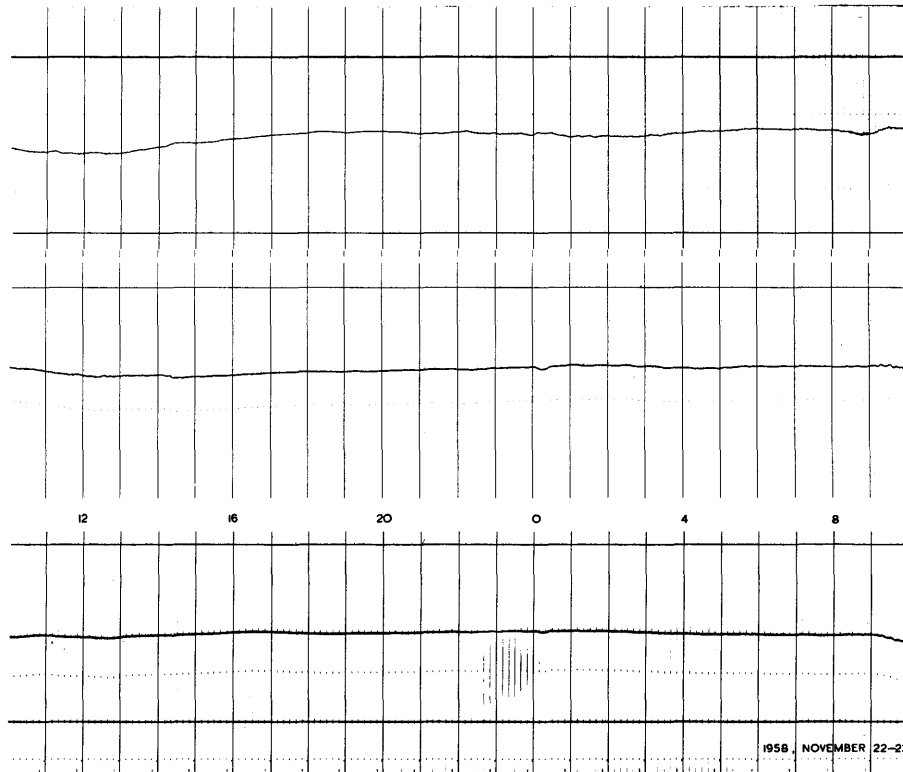


NOVEMBER 20-21

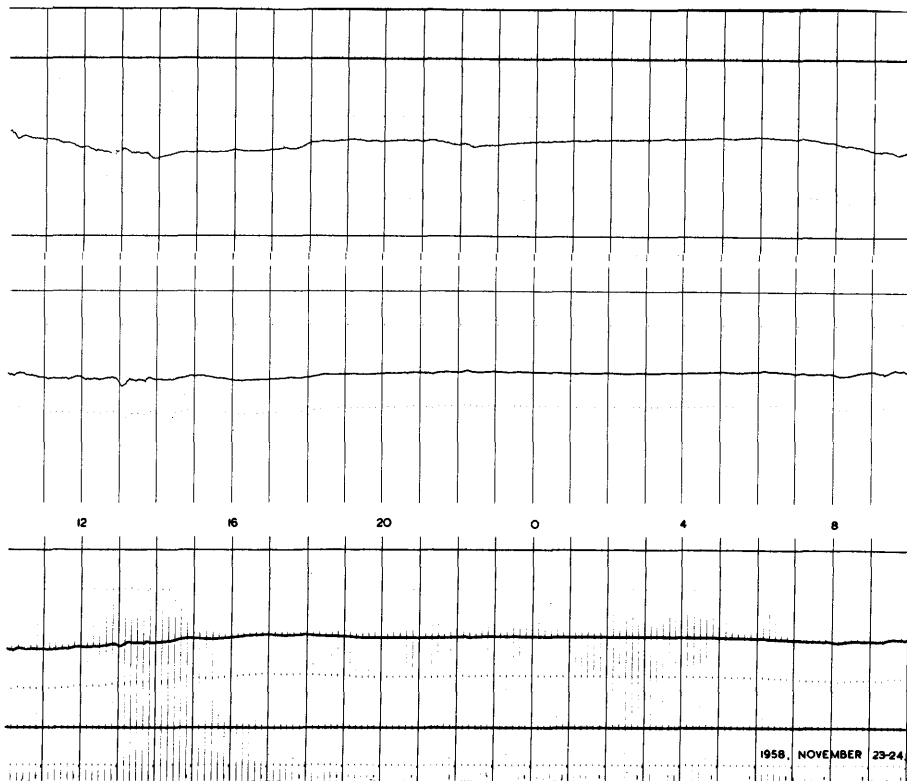


NOVEMBER 21-22

1958

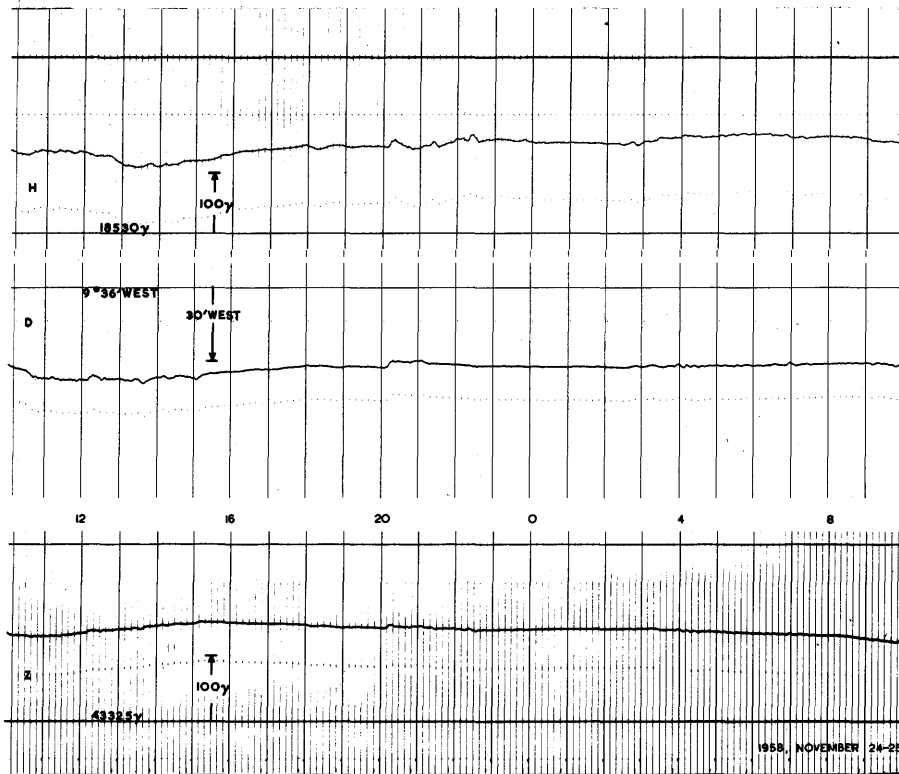


NOVEMBER 22-23

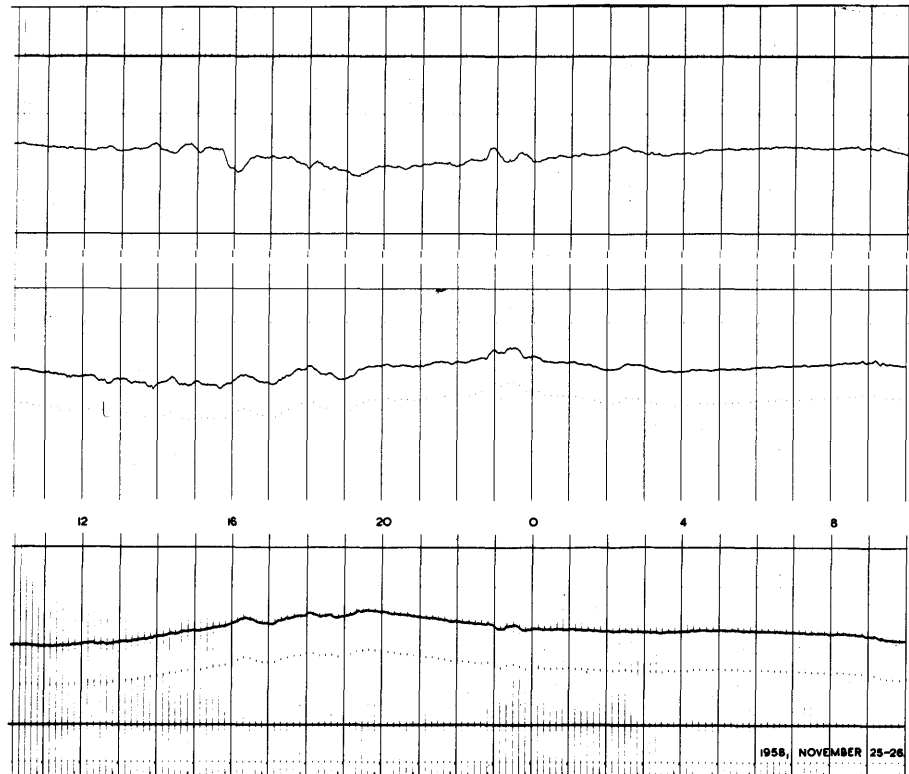


NOVEMBER 23-24

1958



NOVEMBER 24-25

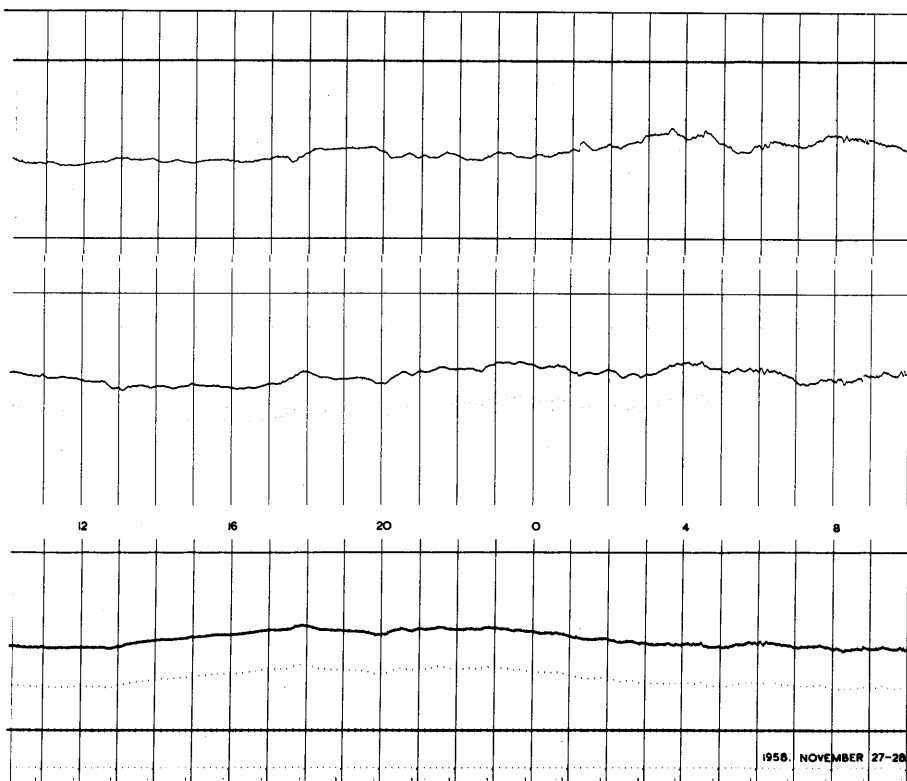


NOVEMBER 25-26

1958

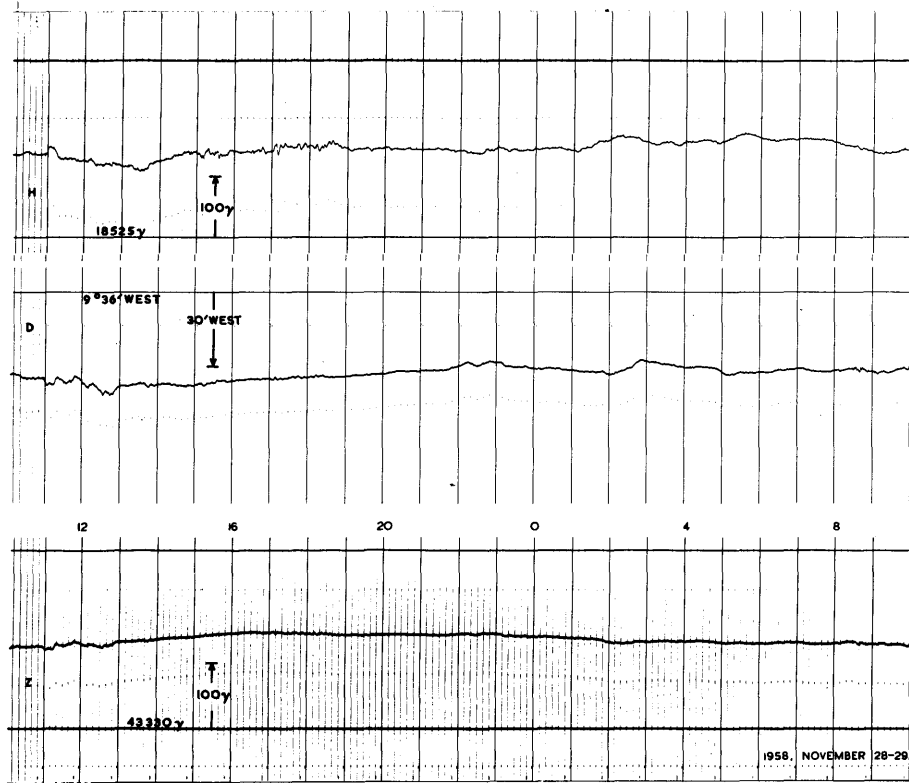


NOVEMBER 26-27

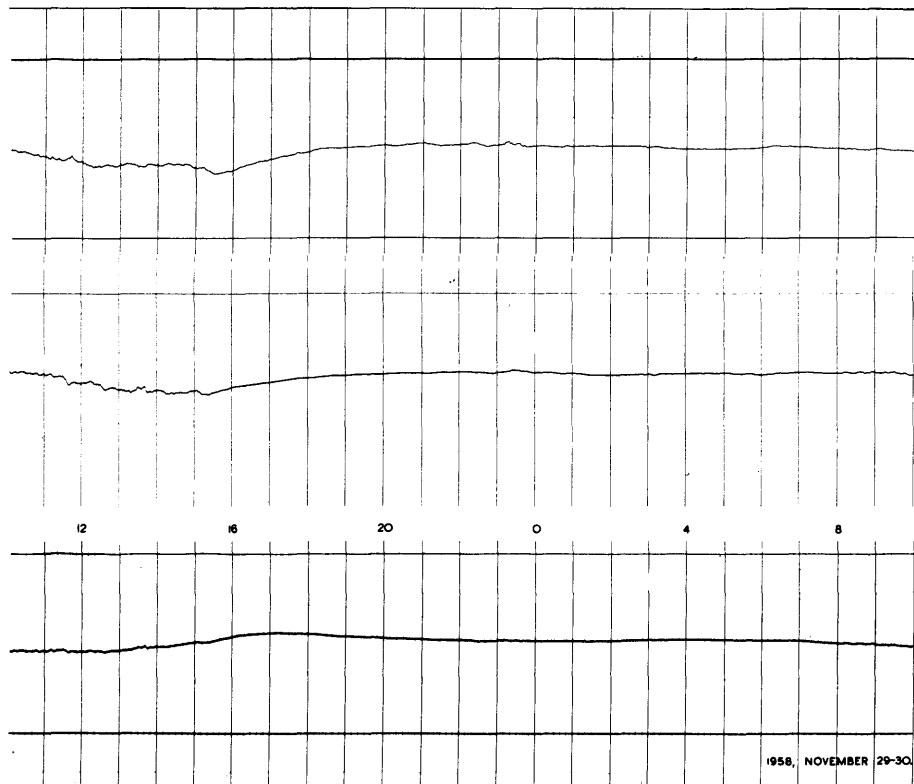


NOVEMBER 27-28

1958



NOVEMBER 28-29



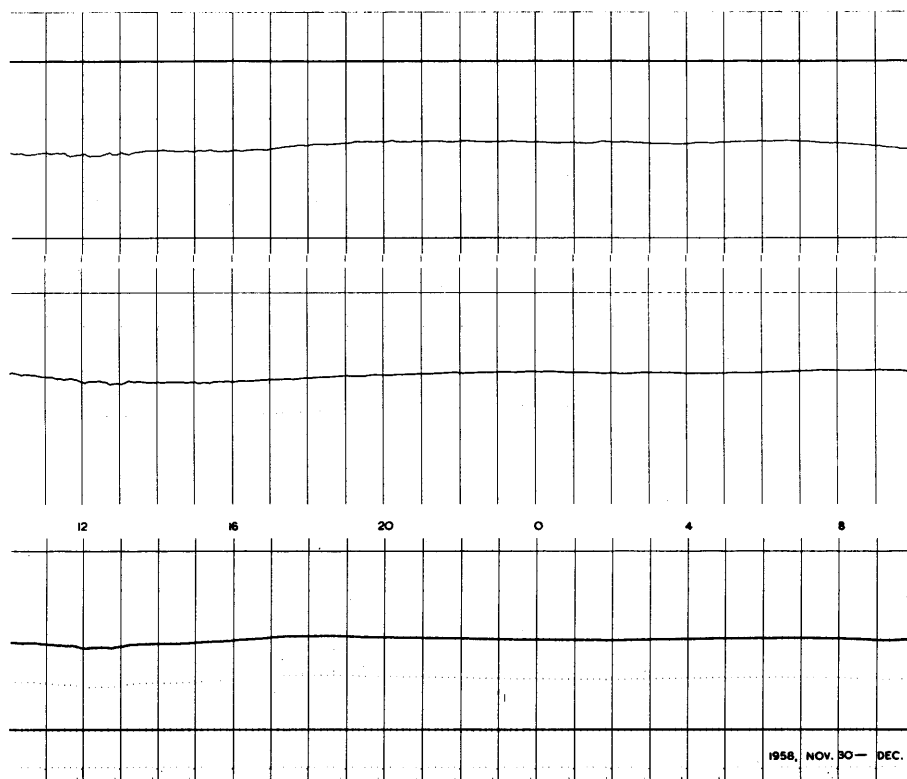
NOVEMBER 29-30

1965]

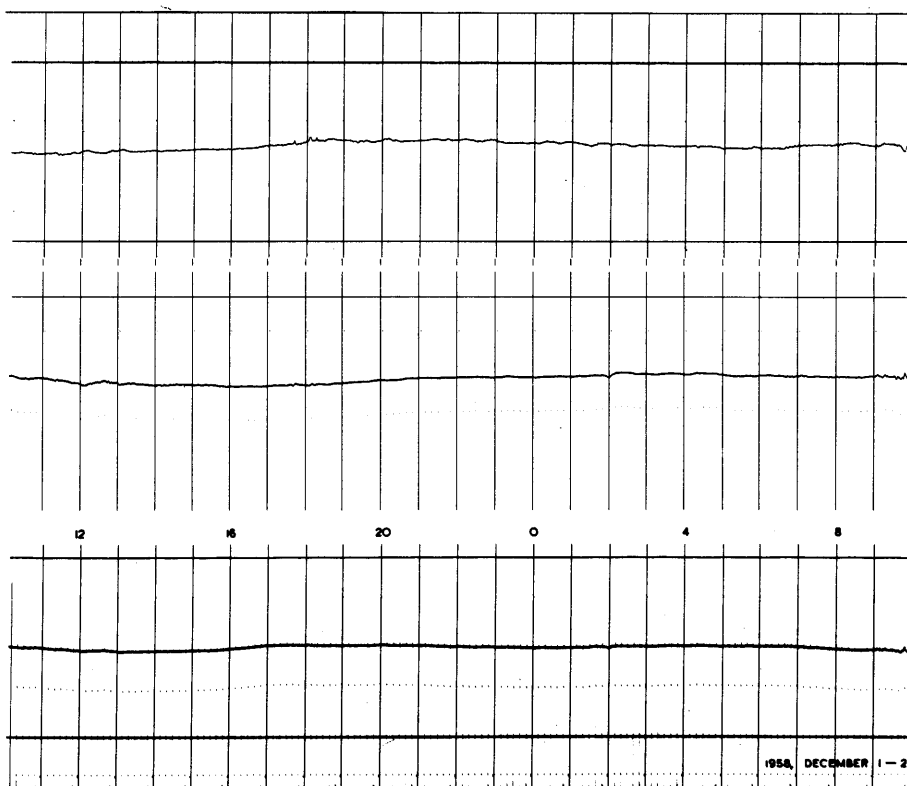
MAGNETIC RESULTS 1958 (HARTLAND)

D227

1958

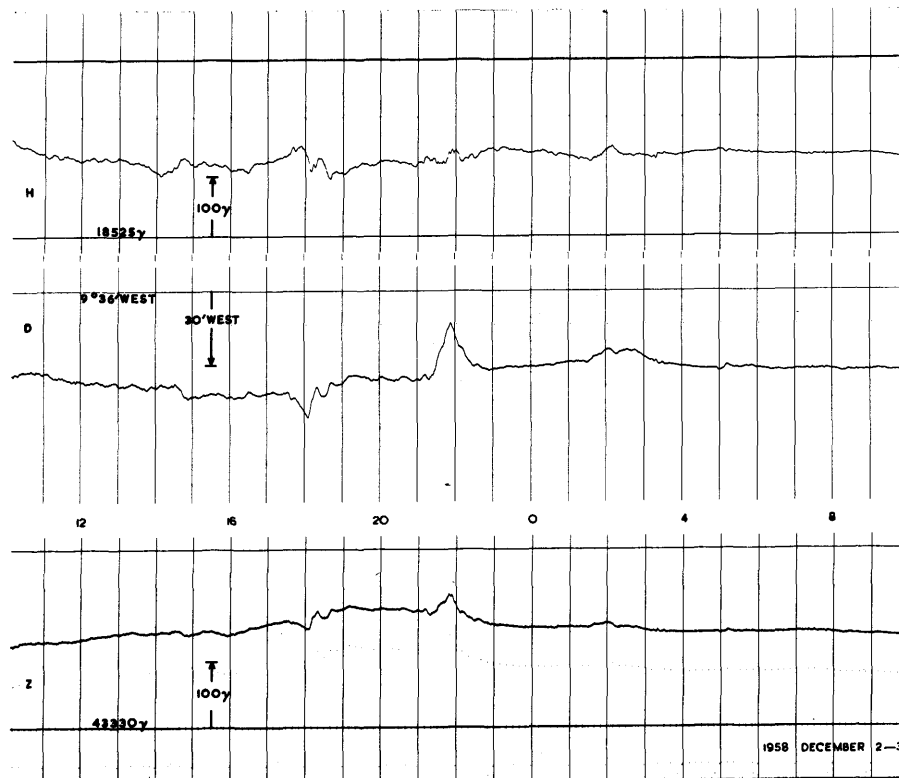


NOV. 30-DEC. 1

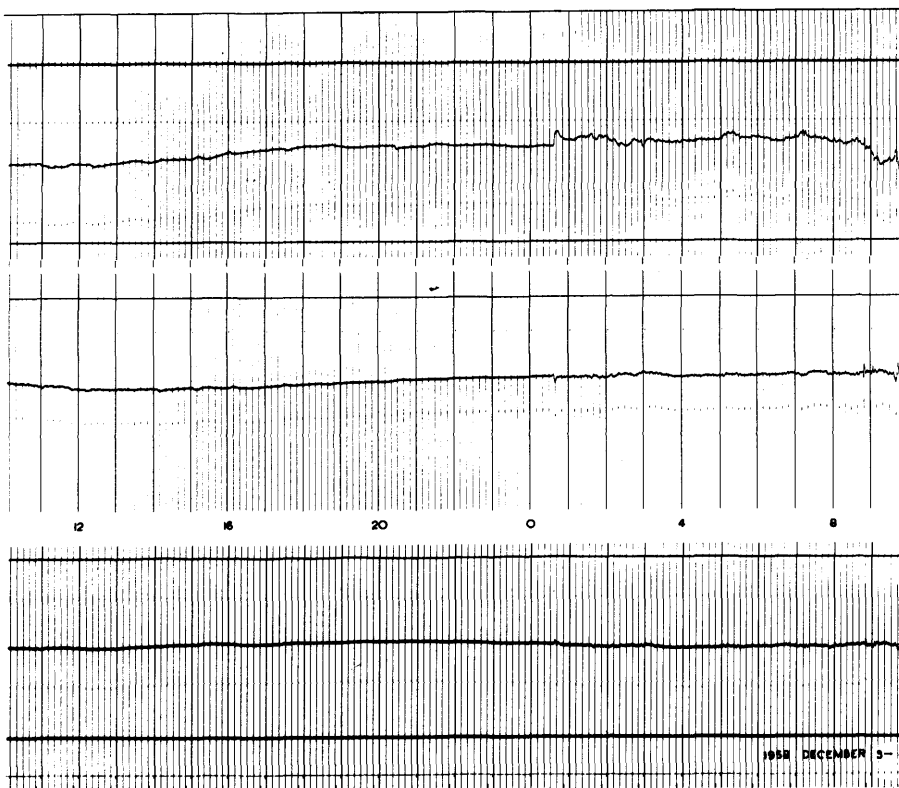


DECEMBER 1-2

1958

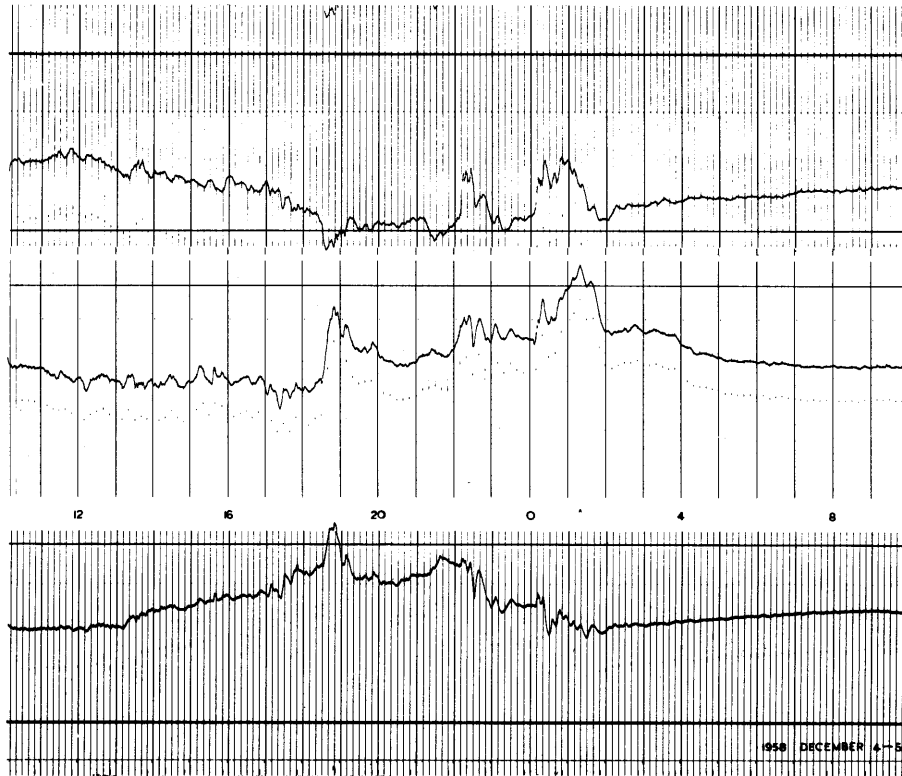


DECEMBER 2-3

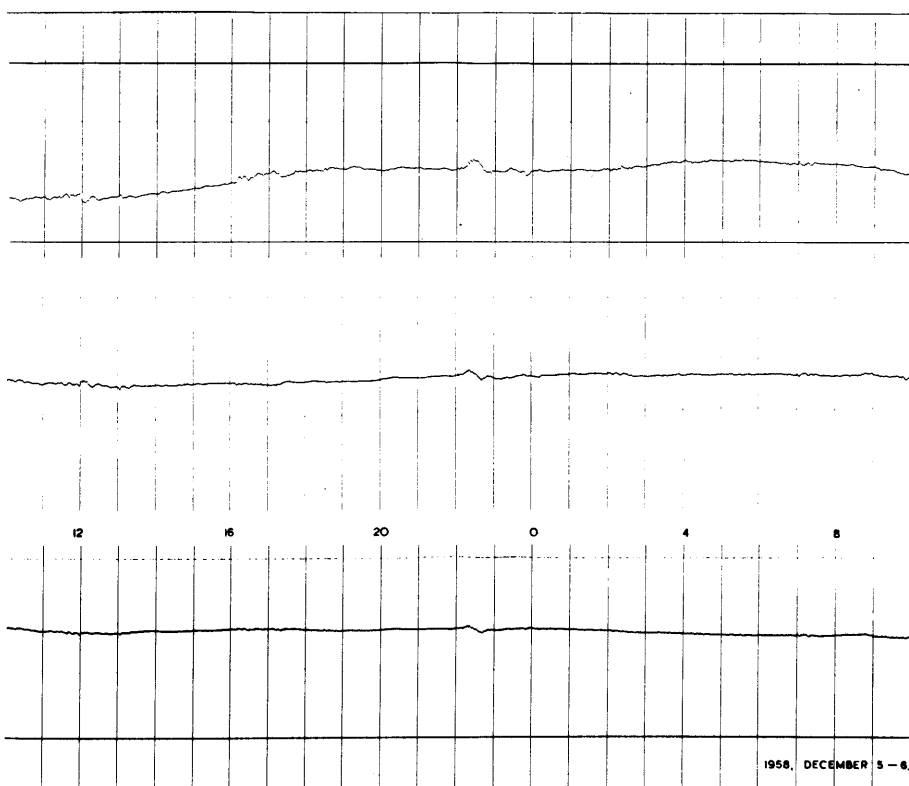


DECEMBER 3-4

1958

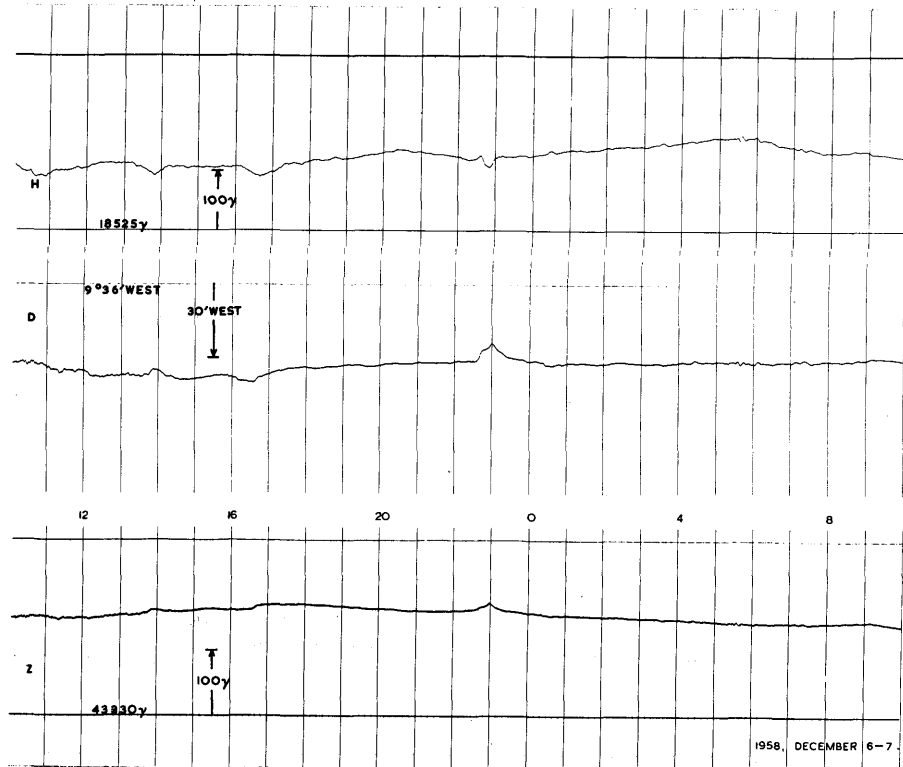


DECEMBER 4-5

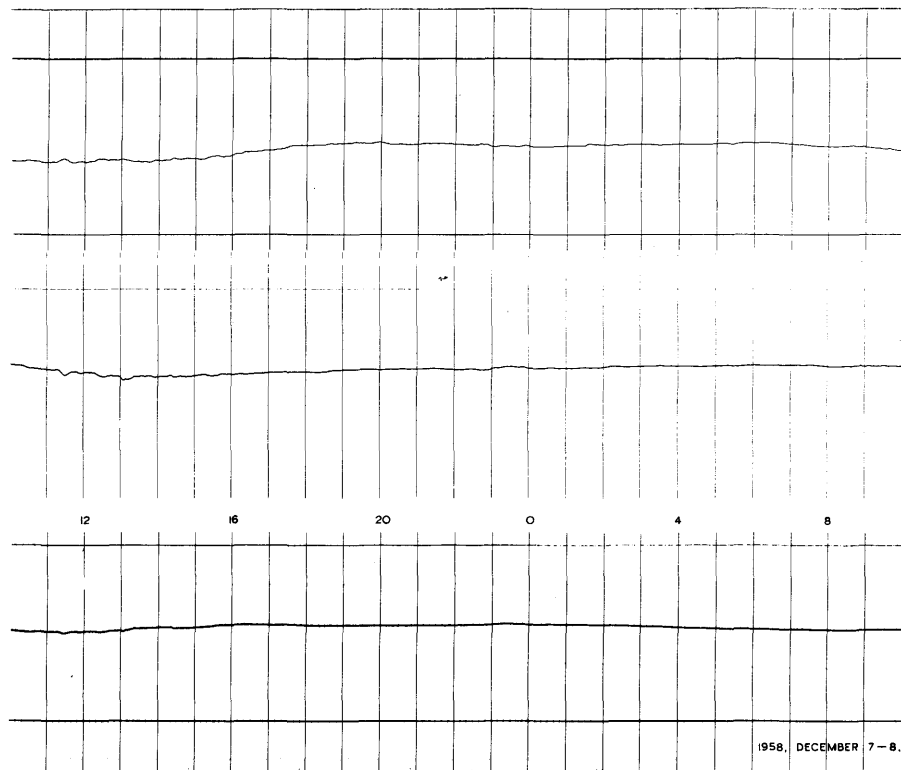


DECEMBER 5-6

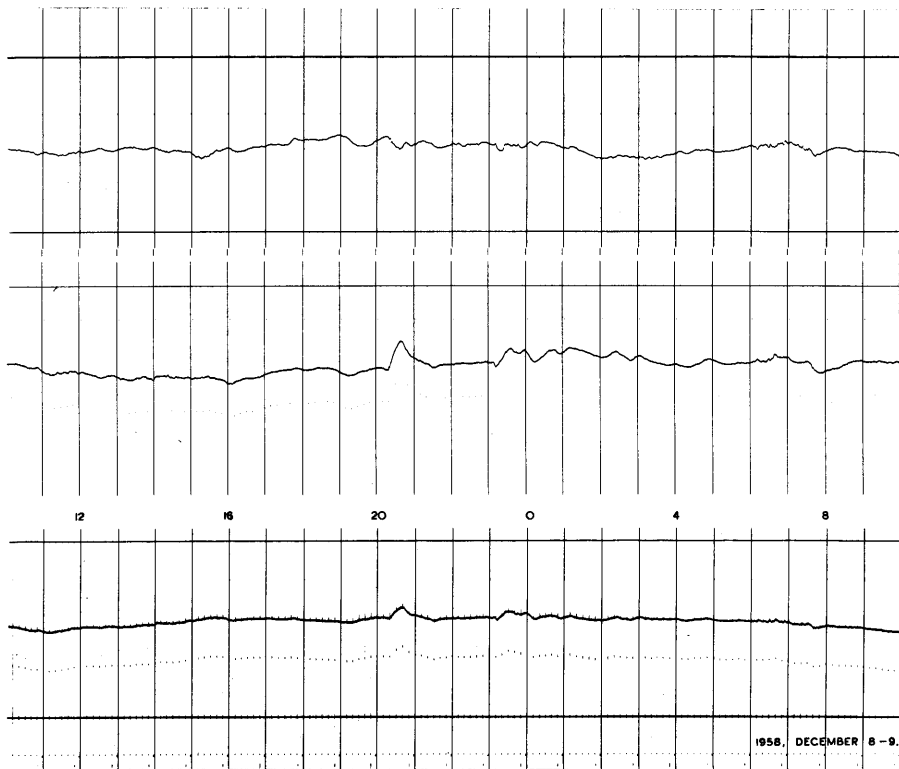
1958



DECEMBER 6-7

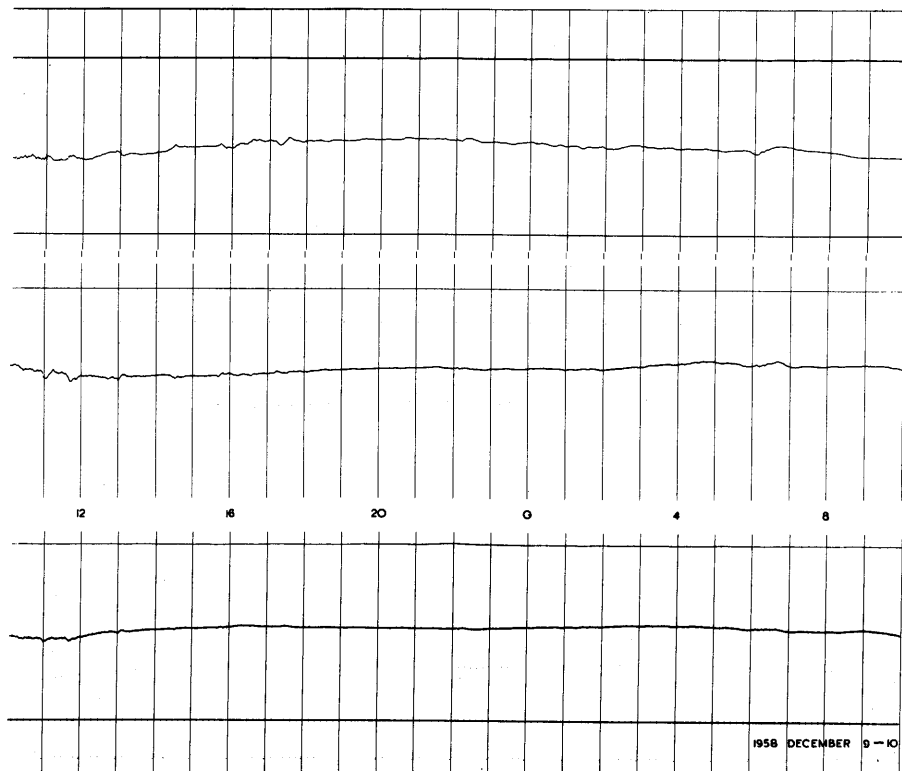


DECEMBER 7-8



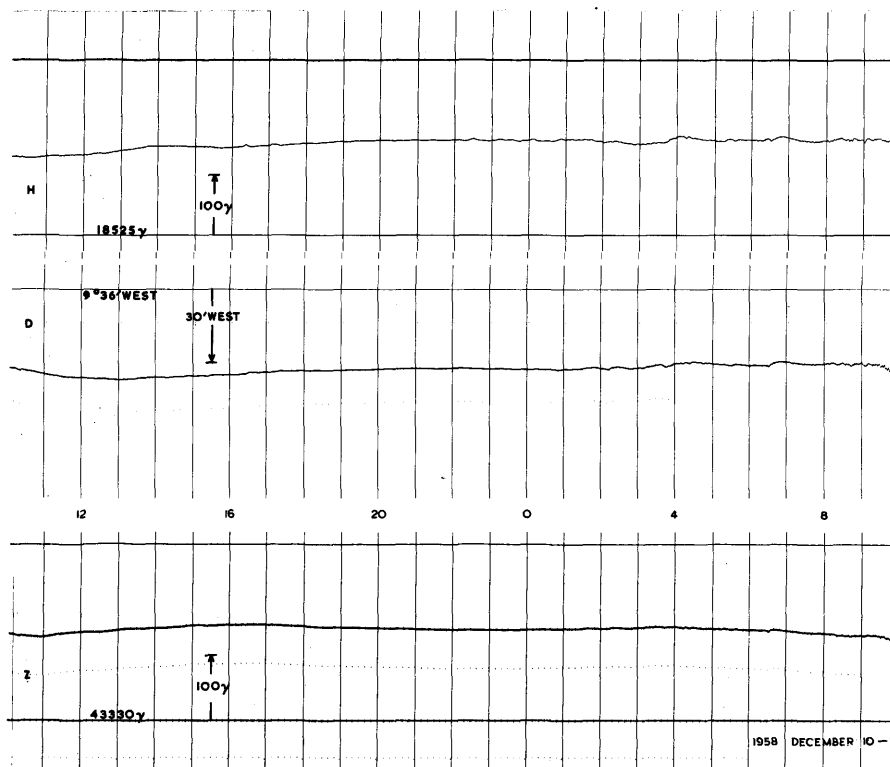
1958

DECEMBER 8-9

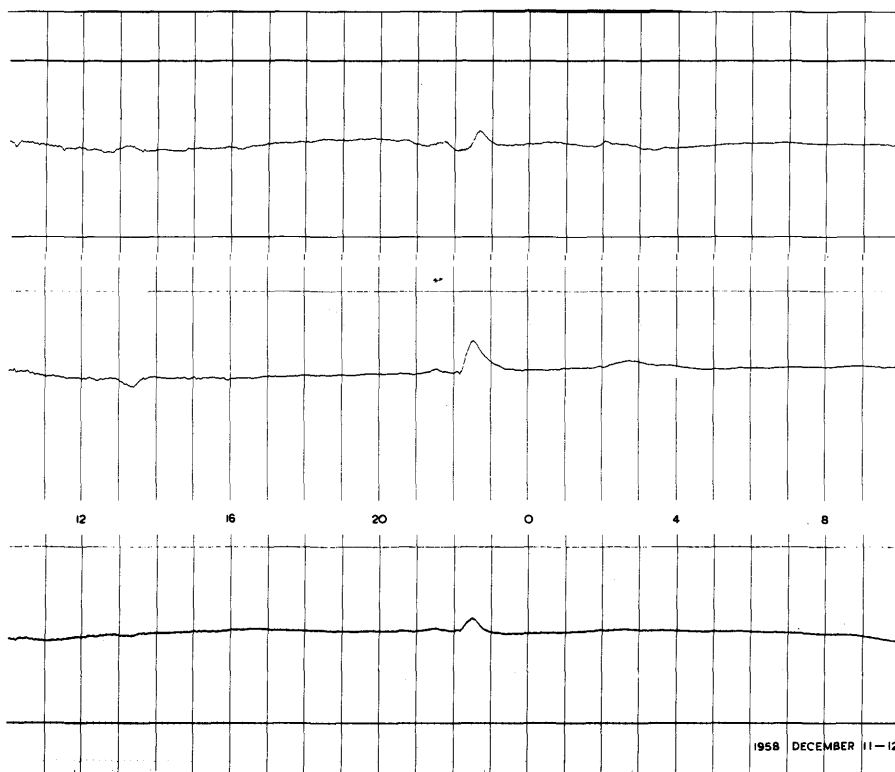


DECEMBER 9-10

1958



DECEMBER 10-11



DECEMBER 11-12

1965]

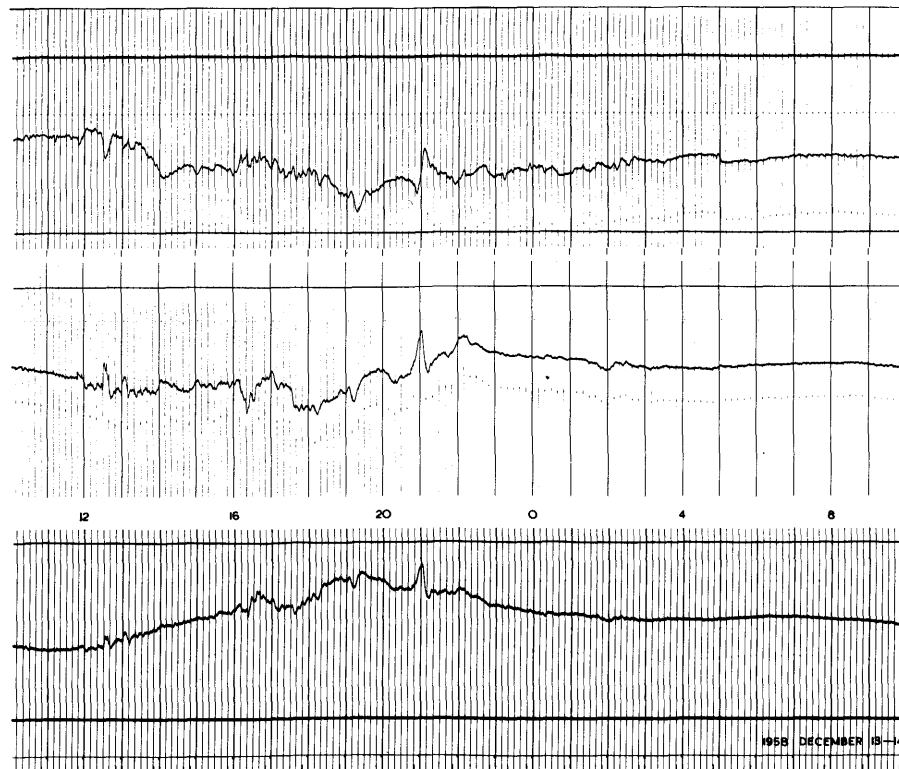
MAGNETIC RESULTS 1958 (HARTLAND)

D233

1958

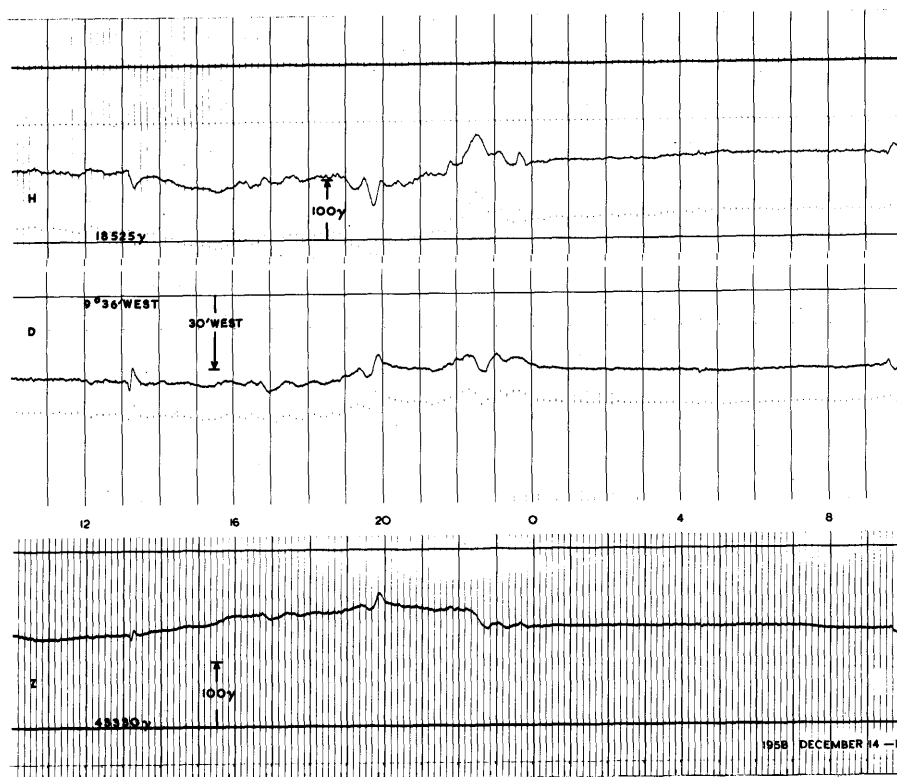


DECEMBER 12-13

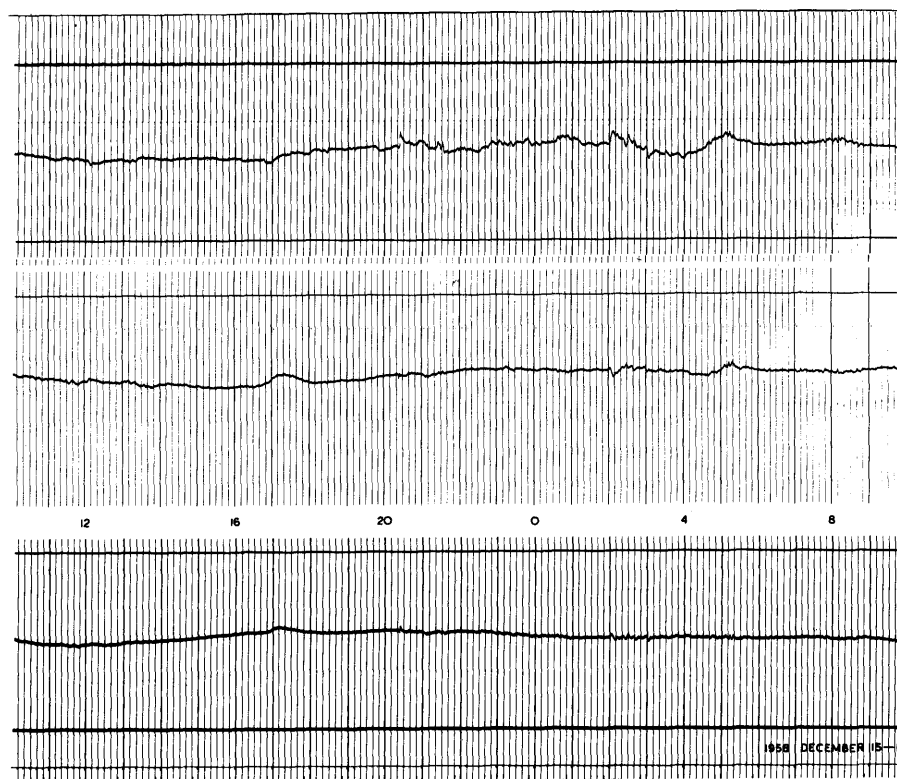


DECEMBER 13-14

1958



DECEMBER 14-15



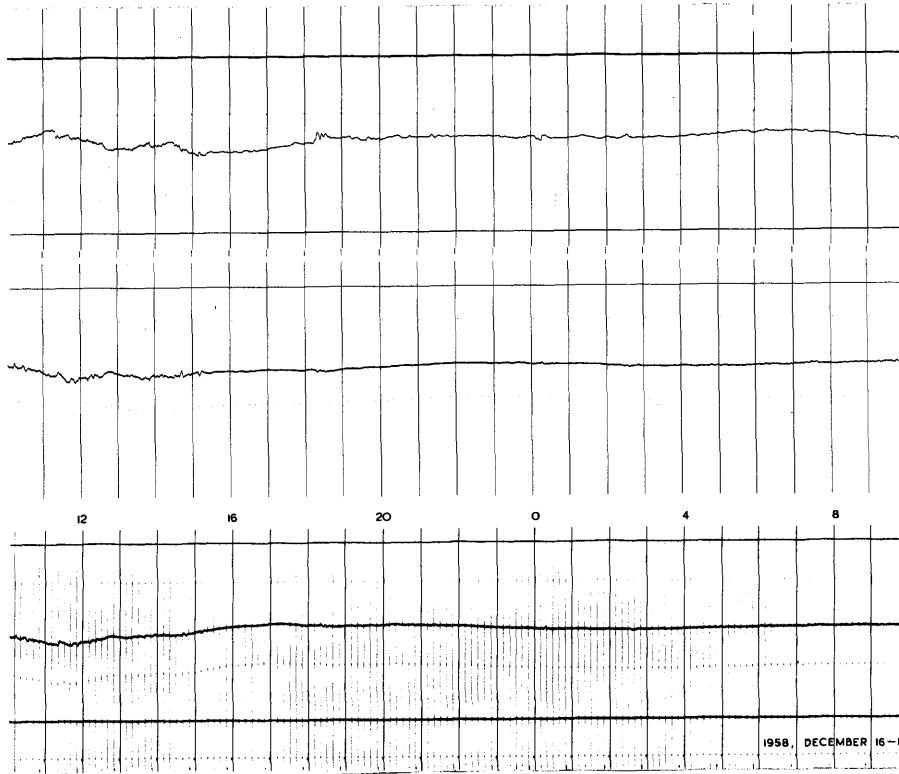
DECEMBER 15-16

1965]

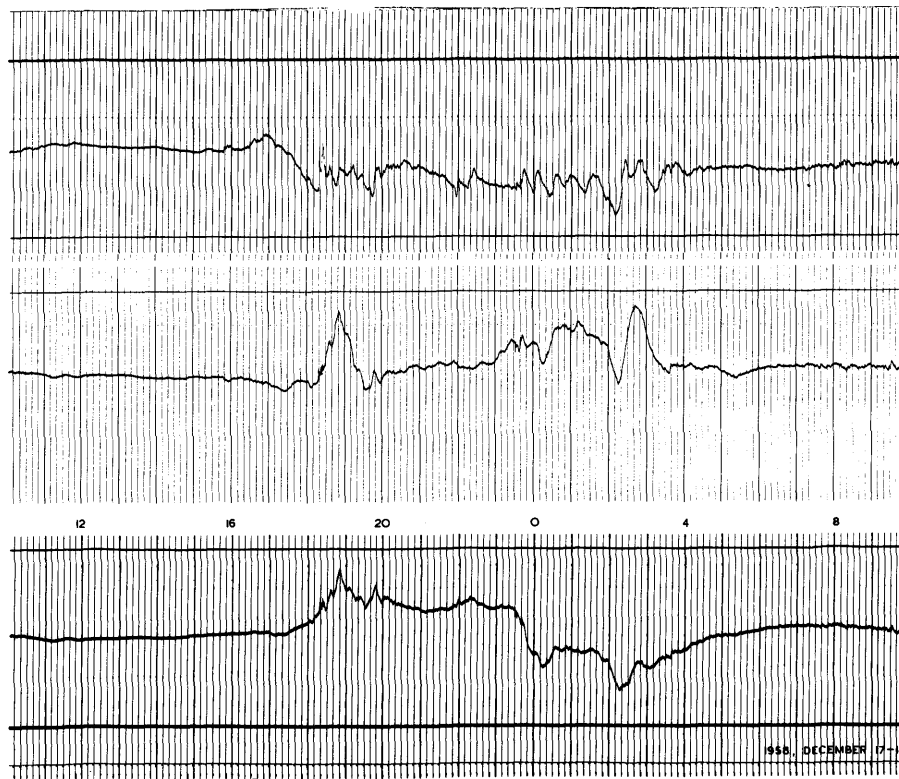
MAGNETIC RESULTS 1958 (HARTLAND)

D235

1958

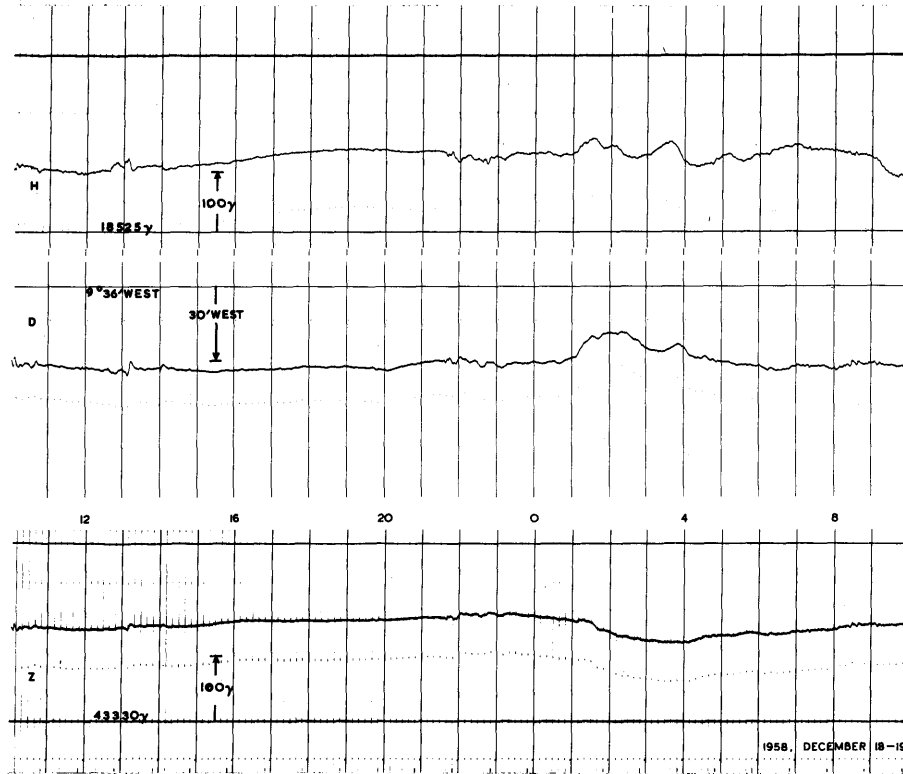


DECEMBER 16-17

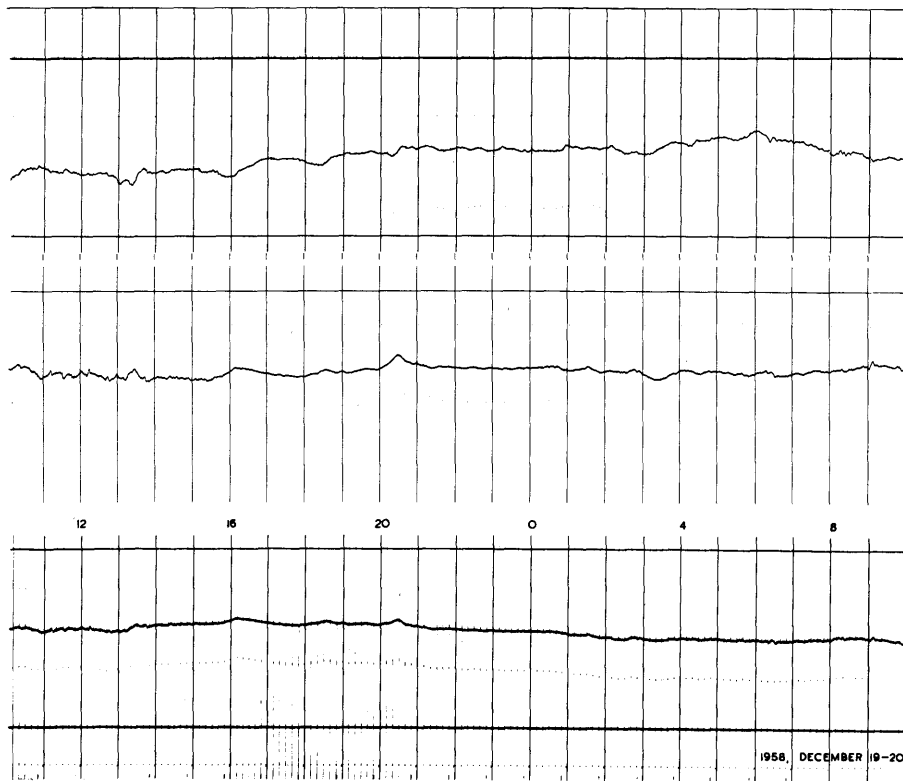


DECEMBER 17-18

1958



DECEMBER 18-19



DECEMBER 19-20

1958

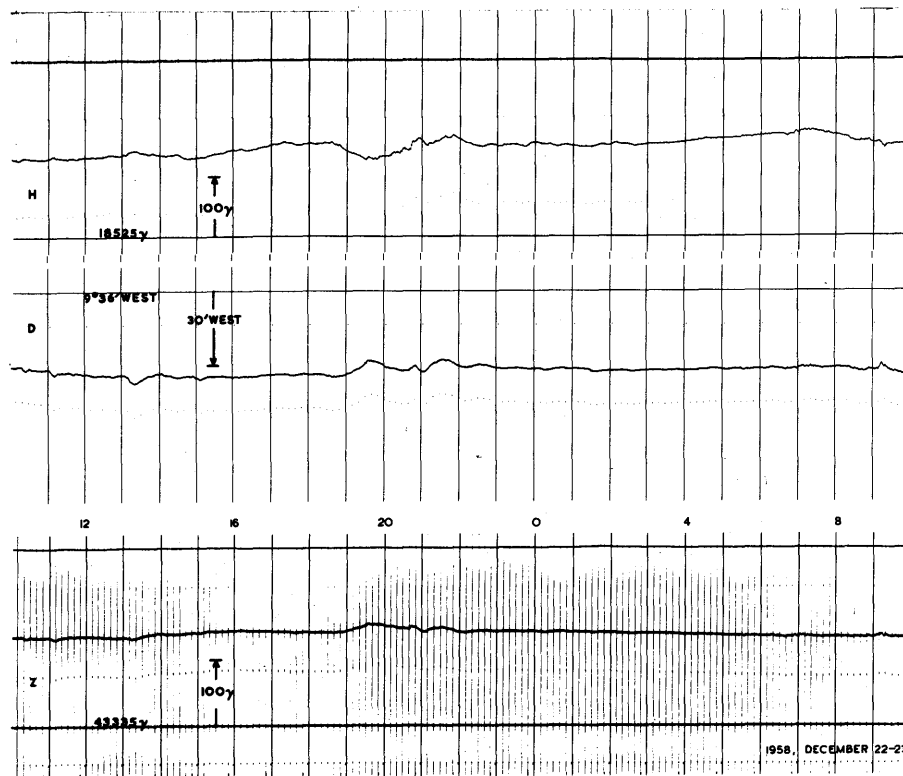


DECEMBER 20-21

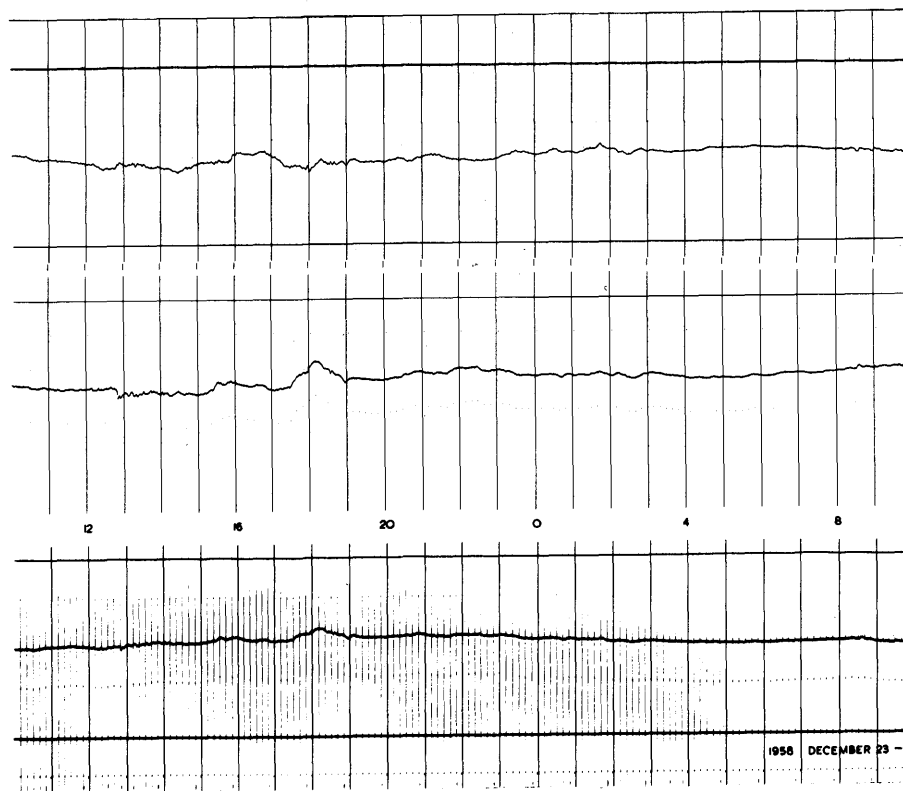


DECEMBER 21-22

1958



DECEMBER 22-23



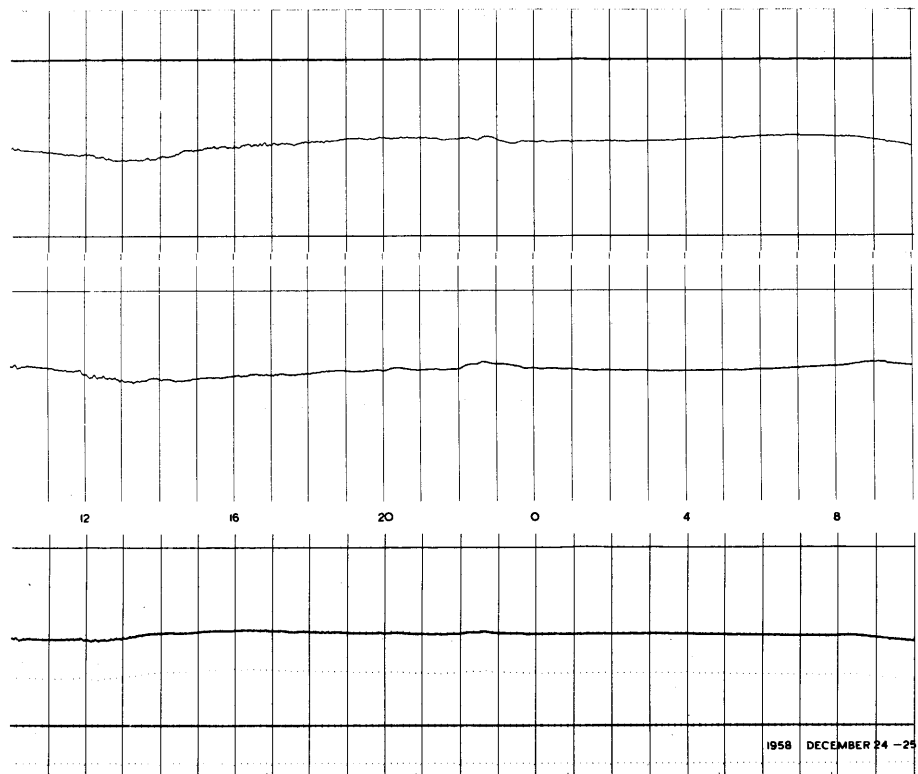
DECEMBER 23-24

1965]

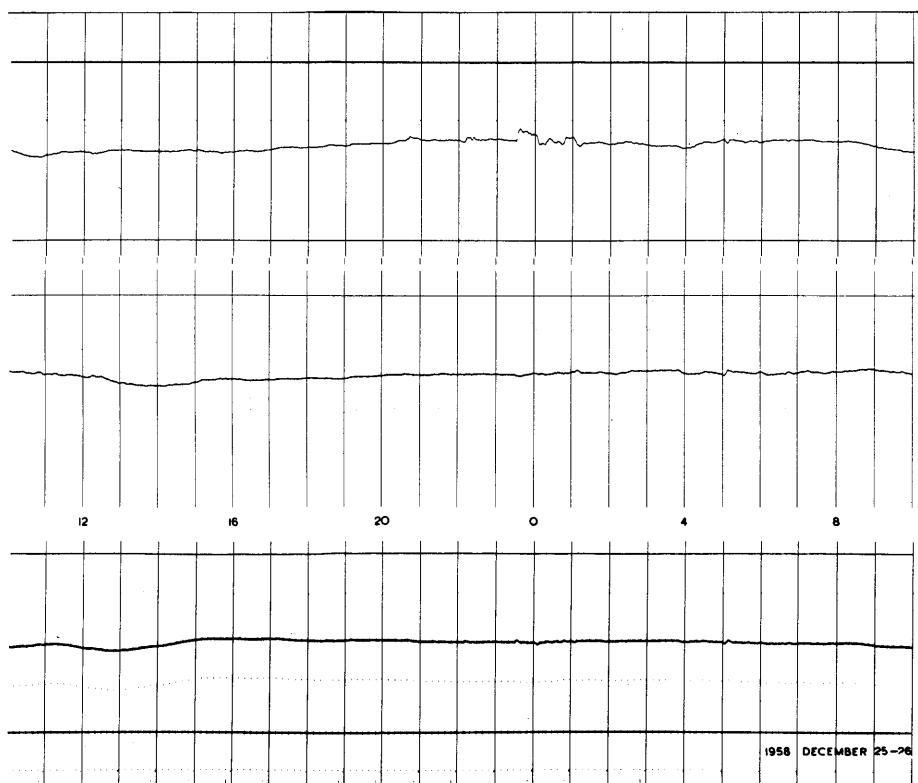
MAGNETIC RESULTS 1958 (HARTLAND)

D239

1958

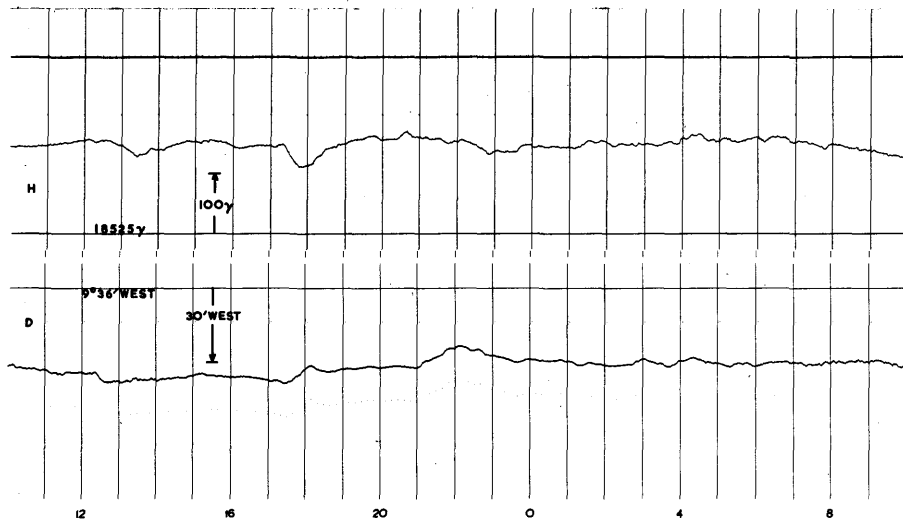


DECEMBER 24-25

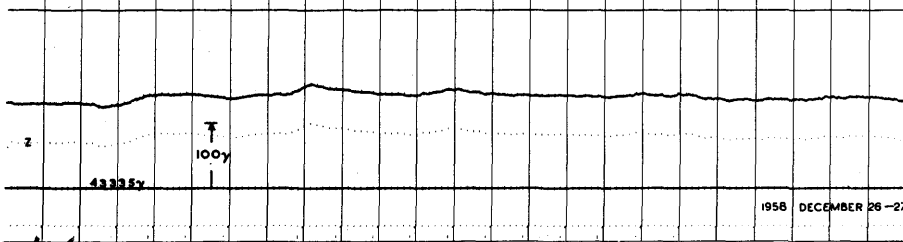


DECEMBER 25-26

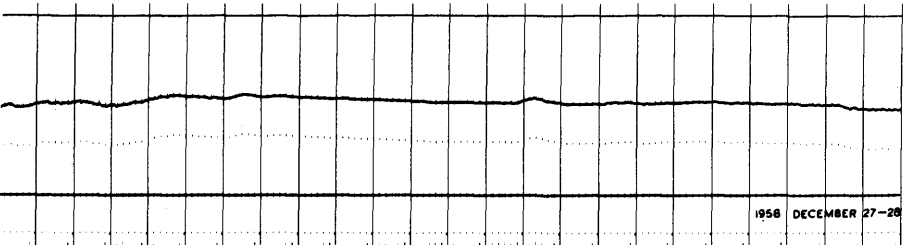
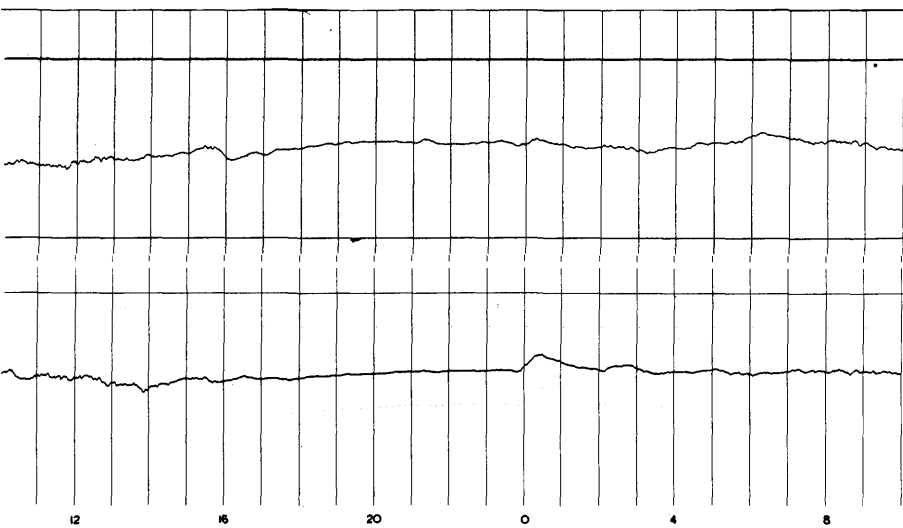
1958



DECEMBER 26-27



DECEMBER 27-28



1965]

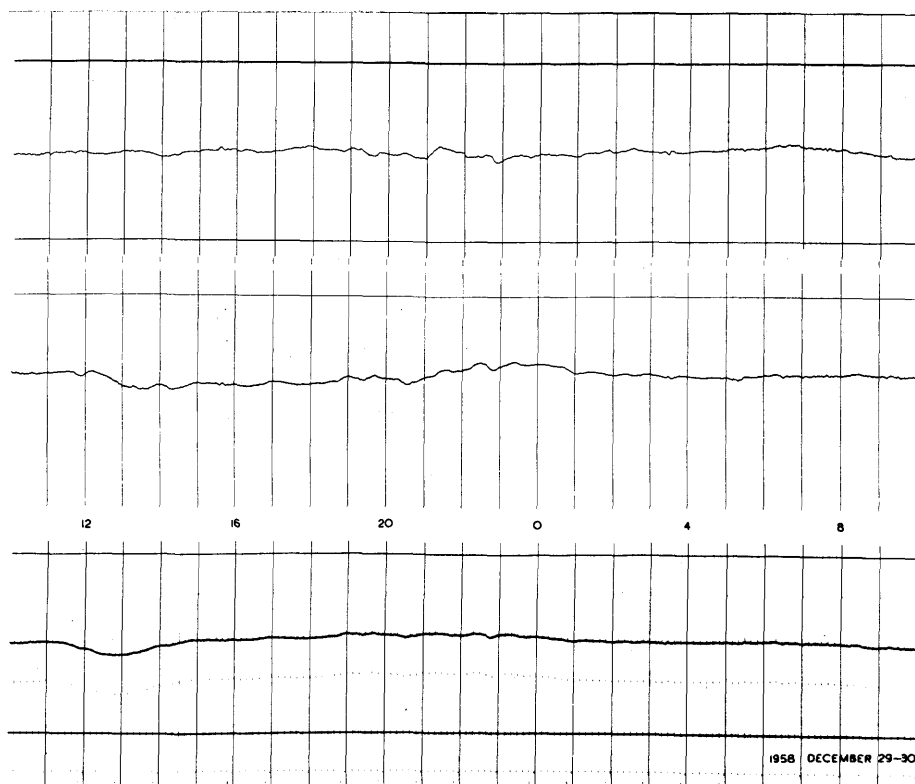
MAGNETIC RESULTS 1958 (HARTLAND)

D241

1958

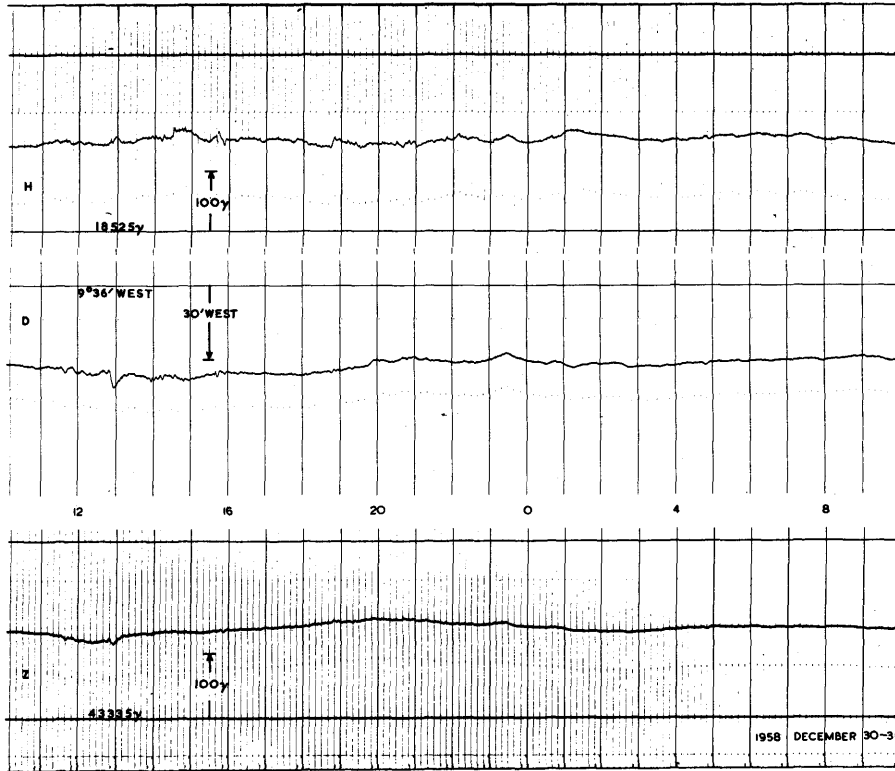


DECEMBER 28-29

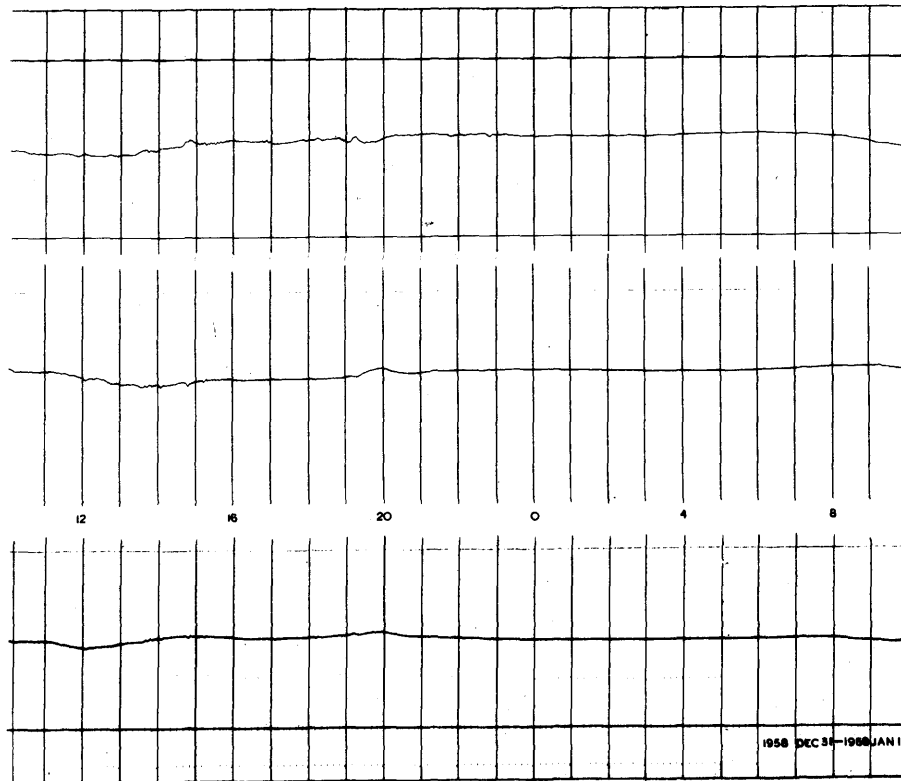


DECEMBER 29-30

1958



DECEMBER 30-31



DEC. 31-JAN. 1

ROYAL OBSERVATORY BULLETINS

previous issues

- No. 20. Time Service 1959 Oct.-Dec.
21. Magnetic Results 1957 (Hartland and Abinger)
22. Time Service 1960 Jan.-Mar.
23. Measurements of Radial Velocity from Coude Plates
24. Photometry of the Cluster NGC 2477
25. Three-Colour Photoelectric Photometry with the Cape Refractors
26. Photoheliographic Results 1957
27. Three-Colour Photometry in the Southern Hemisphere:
 NGC 6383, NGC 6405 and Standard Stars
28. Mechanization of Spherical Harmonic Analysis
29. Three-Colour Photometry of Red Variables
30. The Double-Lined Spectroscopic Binary HD 133822
 with Notes on Methods of Investigation
31. The Period-Colour Relation for Contact Binaries
32. Time Service 1960 Apr.-June
33. Radial Velocities observed with the 60-inch Mt. Wilson
 Telescope
34. Design and Tests of a Mirror T.C. Axis
35. Time Service 1960 July-Sept.
36. Fundamental Data for Southern Stars, III. A-type stars near
 the South Galactic Pole
37. Observations of Southern RR-Lyrae Stars
38. Double-Star Observations made with the 24-inch Refractor
 1957-1960
39. Time Service 1960 Oct.-Dec.

(Nos. 1-20 were entitled *Royal Greenwich Observatory Bulletins*)

