

ROYAL OBSERVATORY
BULLETINS

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OF THE ROYAL GREENWICH AND CAPE OBSERVATORIES

Number 21

Magnetic Results 1957

(Abinger and Hartland)

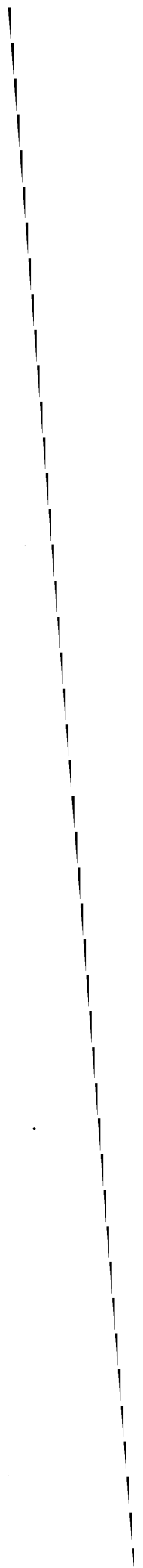
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1963



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HARTLAND (AND ABINGER) MAGNETIC OBSERVATIONS

1957

INTRODUCTION

The Hartland Site

	Geographic	Geomagnetic
Latitude	+ 50° 59'.7	+54.6°
Longitude	355 31.0	79.0
Height above m.s.l.	310 feet = 95 metres	

The new observatory at Hartland, North Devon, succeeds that formerly at Abinger where magnetic interference from artificial sources had become increasingly apparent. Hartland itself is a village situated about 175 miles west of Abinger and some twelve miles from both the nearest town (Bideford) and the nearest railway line. The neighbouring country is undulating and comprises in the main meadowland and wooded slopes. The local industry is essentially agricultural and the district appears unlikely to be affected materially by industrial development for many years to come.

The observatory site lies at the north-west boundary of the village from whence a deep wooded valley extends some two miles westward to the coast. Near this point a sharp turn of the coast-line to the east brings it again within about two miles of the village on the northern side. The observatory stands in the southern half of a large meadow the northern side of which falls steeply away to form part of the southern slopes of the above-mentioned valley.

Buildings (see accompanying plan)

These include an office block (A) containing a small workshop, photographic darkroom and stores, a caretaker's residence (B), the main observing pavilion (C), two additional pavilions (D) for the testing of instruments and available for special observations, the magnetograph house (E) and a small building (F) containing electronic equipment for the supply of stabilised direct current to the pavilions. The walls of the non-magnetic buildings are of lime bricks, the flooring of concrete and timber and the roofing of copper.

The *magnetograph house* contains two thermally insulated inner chambers separated by a narrow central passage. The two chambers are divided individually into three sections or compartments by partitions provided with light-proof sliding panels extending from floor to ceiling. Normally these panels remain open but they may be closed when adjustments to instruments in any one section are in progress. Each section has its own exit door to the central passage. Of the six compartments five are furnished with concrete piers designed to accommodate the various magnetic recorders; the sixth serves as a small laboratory and contains the auxiliary equipment used for scaling the variometers.

The *observing pavilion* is provided with a number of piers, certain of which are permanently allocated to the standard magnetometers. The remainder are available for use with other instruments.

Observing Instruments

The standard magnetometers employed in the determination of the horizontal and vertical components are those formerly in use at Abinger, viz. the H Schuster-Smith Coil and the Z Dye Coil. Declination is determined using a collimator magnet and theodolite that had served at Abinger for a time as a declinometer. A check upon the zero error of the theodolite is provided by a permanent distant mark, the azimuth of which is determined by observations of Polaris.

The H and Z coils were dismantled at Abinger on March 18 and transferred to Hartland the following day. The H coil was brought into regular use at Hartland on April 3 and the Z coil on April 9. Prior to these dates base-line values of the variometers were determined using QHM 126 and BMZ 38. These instruments had been previously compared with the standard coils at Abinger over an extended period and were again compared at Hartland after the transfer. The comparisons indicate no significant change having occurred in any of the instruments arising out of the transfer.

Variometers

A new set of normal-run La Cour variometers set up during 1956 at Hartland was available for continuous recording of D, H and Z from the beginning of 1957. The La Cour quick-run and wide-range recorders were brought into operation on May 22, the latter being a new set. The quick-run recorder was that previously in use at Abinger. The normal-run instrument that had been in use at Abinger and a new quick-run recorder are available for use at Hartland and will in due course be set up as reserve instruments.

The scaling of the variometers is carried out using Helmholtz-Gaugain coils supplied for use with the La Cour recorders. The following table summarises the details of the instruments at present in use.

La Cour	Time Scale	Adopted Scale Value		
		D	H	Z
Normal run	15 mm./hr.	1.01/mm.	4.13γ/mm.	3.98γ/mm.
Quick run	3.1 mm./min.	1.1/mm.	4.0γ/mm.	4.4γ/mm.
Wide range	15 mm./hr.	2.52/mm.	21.0 γ/mm.	12.2γ/mm.

Abinger Observatory

It had been intended originally that this observatory ($\phi = 51^{\circ}11'5''N$, $\lambda = 0^{\circ}23'12''W$) should continue to operate throughout the International Geophysical Year 1957-58 giving a period of overlap with the Hartland Observatory of two years. This proposal subsequently proved impracticable and all magnetic work at Abinger ceased on April 18 1957. The interval during which both stations were operating simultaneously was thus only three and a half months.

The differences between the mean values of the elements recorded during this period at the two stations in the sense Hartland *minus* Abinger are:-

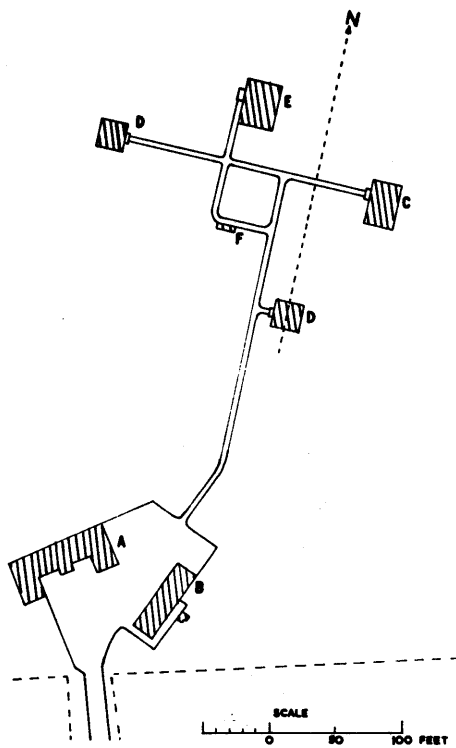
$$\begin{aligned} \Delta D, & +1^{\circ}46.6 \text{ West}; & \Delta H, & -0.00146; \\ \Delta Z, & +0.00056; & \Delta I, & +0^{\circ}11.4; \end{aligned}$$

The Abinger tabulated results for this period of overlap are given in the present volume following those for Hartland.

PUBLISHED RESULTS

Tables

In general these are self-explanatory; but note that Tables V, VI, VII, IVa, Va, VIa are not adjusted for non-cyclic change. The inequalities quoted for the north and west components and the inclinations are computed from those of D, H and Z. Extreme values are printed in heavy type.



Plan of the
Hartland Magnetic Observatory

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, 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
10° + Tabular Quantities																	
JANUARY																	
1	20.1	20.2	20.1	20.0	19.3	19.0	18.7	18.7	19.0	18.3	19.0	21.9	21.9	23.1	25.0	24.3	
2	18.8	18.4	18.9	20.0	19.7	19.0	18.3	19.8	19.0	18.1	20.6	22.0	23.9	24.7	24.4	24.9	
3	17.9	17.7	17.1	16.8	17.8	18.2	18.3	18.2	18.0	17.1	17.8	19.1	21.0	23.1	23.9	23.2	
4	19.2	19.0	19.7	20.0	19.6	19.1	18.2	18.0	18.8	18.7	20.3	22.3	23.9	24.0	23.4	23.1	
5 *	20.0	19.8	20.0	20.0	20.0	19.5	19.4	19.1	19.0	18.3	19.4	21.4	23.8	24.8	24.8	23.5	
6	19.3	19.4	19.3	19.2	19.1	19.8	19.8	19.7	19.1	18.0	18.9	22.0	24.1	26.1	26.4	25.1	
7	19.3	19.0	19.0	18.2	18.0	19.0	18.9	18.9	19.0	18.0	19.0	20.7	24.0	24.2	24.3	23.9	
8	19.1	15.8	16.0	16.9	18.5	19.2	19.6	19.4	19.5	19.0	22.1	21.9	24.9	23.9	24.5	24.2	
9	18.0	18.3	19.0	18.4	18.1	18.7	18.5	18.6	18.0	17.7	18.3	21.0	23.2	25.4	25.6	23.4	
10 **	14.1	15.5	16.0	15.2	15.6	15.3	22.4	22.1	20.2	18.1	18.5	22.4	23.5	27.7	28.0	28.1	
11	10.7	17.1	19.0	18.9	19.2	19.3	18.8	19.2	21.0	21.2	20.8	21.4	24.1	24.2	24.7	23.2	
12	19.3	19.5	19.5	16.7	21.2	19.2	18.3	18.1	18.0	17.6	19.0	20.7	22.7	23.3	22.9	23.1	
13 *	19.2	20.0	20.1	20.4	19.7	19.0	19.0	19.1	19.3	18.8	18.3	20.0	22.1	24.0	25.0	24.3	
14 *	20.3	20.2	20.3	20.1	19.8	19.5	19.0	18.9	18.3	17.5	18.4	20.7	21.5	23.1	23.9	23.2	
15	20.7	20.6	20.7	20.0	20.0	19.8	19.8	19.7	19.0	18.3	19.0	20.6	23.7	24.8	25.1	25.2	
16	17.2	19.8	20.3	21.0	21.0	20.4	19.8	19.5	18.9	17.0	17.9	21.4	23.7	26.5	26.5	25.9	
17	19.2	19.7	19.1	19.9	20.0	20.0	19.5	19.1	18.8	18.0	18.3	19.7	22.1	24.7	24.8	24.1	
18 *	20.4	20.8	20.9	21.0	20.7	20.5	19.8	19.1	18.2	17.3	17.9	20.1	23.3	26.0	25.5	23.9	
19	20.0	20.0	20.6	20.8	20.8	20.4	20.2	19.8	19.0	17.2	17.0	18.9	22.0	24.9	26.9	26.1	
20 *	18.0	17.8	18.2	19.9	20.0	19.8	20.1	19.8	19.0	18.3	18.8	20.6	23.5	25.1	25.7	25.6	
21 **	19.3	19.0	19.0	20.2	20.2	20.0	19.3	18.5	20.9	20.2	20.9	21.7	23.8	29.9	33.0	33.4	
22 **	17.5	23.1	20.5	9.9	13.1	17.0	15.1	15.3	13.8	14.3	16.0	17.1	19.0	21.0	22.2	22.1	
23 **	17.2	18.0	18.3	18.0	18.0	18.0	17.4	16.8	15.3	18.2	19.0	19.1	21.0	23.6	26.1	25.1	
24	17.6	16.4	10.4	12.9	13.7	17.7	17.3	17.0	16.2	16.0	16.4	19.8	22.1	25.5	26.9	26.6	
25	6.8	12.2	10.9	12.9	13.8	16.1	14.6	17.0	16.0	16.8	17.4	19.0	21.0	22.9	22.8	21.7	
26	19.0	19.6	17.4	17.2	17.5	17.2	17.1	18.4	17.3	16.3	16.1	17.0	20.0	23.1	24.4	23.8	
27	19.0	20.0	20.0	19.8	19.0	18.2	18.1	17.4	16.0	15.7	18.2	21.2	23.6	22.9	24.4	25.2	
28	19.4	20.0	19.2	18.0	18.2	17.7	17.9	17.9	17.0	16.4	17.0	18.7	20.9	23.1	24.6	23.2	
29	19.5	20.0	19.9	19.2	18.9	19.1	18.0	17.3	16.3	16.3	18.1	19.8	22.8	29.2	35.2	32.1	
30 **	14.1	20.0	15.4	14.7	18.0	18.0	20.5	18.0	19.3	23.2	21.5	20.0	26.4	28.0	26.6	26.1	
31	17.1	16.9	16.8	15.2	15.0	16.0	16.9	16.6	16.8	17.4	18.8	19.4	20.7	23.1	25.1	24.3	
Mean	18.0	18.8	18.4	18.1	18.5	18.7	18.7	18.5	18.2	17.8	18.7	20.4	22.7	24.7	25.6	24.9	
Mean *	19.6	19.7	19.9	20.3	20.0	19.7	19.5	19.2	18.8	18.0	18.6	20.6	22.8	24.6	25.0	24.1	
Mean **	16.4	19.1	17.8	15.6	17.0	17.7	18.9	18.1	17.9	18.8	19.2	20.1	22.7	26.0	27.2	27.0	
FEBRUARY																	
10° + Tabular Quantities																	
1	17.0	17.9	17.7	18.8	19.1	19.4	18.7	17.3	16.8	17.0	18.4	19.0	20.5	22.9	23.3	22.9	
2	18.8	19.0	19.0	18.0	18.0	18.3	18.1	17.2	17.2	18.0	18.8	19.9	24.1	23.5	25.6	23.1	
3	16.8	16.2	17.1	17.9	18.0	18.8	18.5	18.0	17.8	17.4	17.7	19.0	21.7	23.8	23.9	23.2	
4 **	16.9	13.7	15.0	16.3	16.3	17.9	17.8	17.6	17.9	17.9	19.8	23.6	26.1	27.6	25.8	25.1	
5 **	15.4	8.7	3.6	10.9	18.3	19.1	20.0	17.7	16.0	19.1	24.2	23.9	27.1	28.9	25.5	22.2	
6	16.9	16.9	16.0	16.1	16.0	15.8	15.6	16.0	17.0	19.1	20.0	21.4	22.9	24.1	24.7	24.1	
7 *	18.8	18.3	18.8	19.0	18.8	18.8	18.0	17.1	17.0	17.3	19.0	21.3	20.3	21.6	21.8	21.8	
8	15.6	15.0	15.7	15.1	16.0	16.4	16.9	17.0	17.8	18.8	19.9	20.4	20.5	22.4	23.2	23.1	
9	16.4	16.8	16.3	16.0	16.5	17.8	17.9	18.3	18.2	17.8	18.0	19.7	21.9	23.1	22.4	21.5	
10 *	14.8	15.0	16.3	17.0	17.8	18.0	18.5	18.8	18.2	18.5	19.0	20.2	21.5	22.5	22.2	21.4	
11	19.7	19.0	19.8	19.0	18.8	19.0	18.7	19.0	18.7	18.0	18.8	21.0	22.5	23.4	23.1	23.0	
12	19.6	19.6	18.9	21.8	20.0	16.6	17.9	18.3	18.5	20.1	20.1	20.7	21.5	23.0	23.5	21.3	
13 **	16.9	18.8	18.6	18.9	17.1	21.7	19.9	21.3	20.5	19.6	21.0	24.3	27.6	29.3	27.9	25.2	
14	18.4	18.1	19.0	19.0	18.8	18.7	18.3	18.1	17.9	18.7	19.3	21.0	21.9	22.3	22.8	22.1	
15	19.7	20.0	20.0	20.0	19.4	18.8	18.0	17.8	17.4	18.5	18.7	23.1	23.1	23.8	23.3	23.2	
16	19.1	19.3	19.7	20.0	19.0	19.3	19.3	19.4	19.0	18.6	19.8	20.8	22.0	22.7	23.3	23.0	
17	18.2	17.9	17.8	19.0	19.2	19.0	18.6	18.2	18.2	18.1	19.1	19.8	22.1	25.2	24.2	24.4	
18	12.8	11.4	11.4	11.9	12.8	13.1	14.9	16.9	18.7	19.3	19.7	22.1	23.1	25.0	24.2	24.6	
19	14.4	17.2	18.1	17.6	18.0	17.1	18.4	22.1	21.4	20.8	20.0	20.9	23.1	22.1	22.4	21.2	
20	16.3	15.0	11.7	12.7	14.8	14.9	16.2	16.8	17.0	18.5	20.9	23.3	24.4	23.8	24.1	22.1	
21 **	16.9	14.8	8.3	9.6	13.1	15.2	15.3	20.9	21.2	19.7	20.0	20.9	24.0	27.6	27.9	27.1	
22	15.2	18.7	16.3	19.0	17.0	17.4	19.3	18.2	17.9	18.0	18.8	21.0	21.0	23.2	24.8	23.4	
23	12.1	12.5	16.3	18.0	21.2	19.4	18.0	18.9	20.2	20.2	21.0	22.6	23.1	24.0	23.9	23.9	
24 **	10.5	13.7	3.9	2.8	13.9	23.1	24.3	17.8	18.7	19.7	20.2	21.9	22.1	22.4	19.5	20.7	
25	17.6	16.3	13.9	14.2	16.9	17.4	17.3	17.3	17.0	17.3	18.7	20.9	22.0	22.1	21.3	21.0	
26 *	18.7	18.2	18.0	17.7	18.0	18.0	18.0	18.2	18.0	18.0	18.8	20.0	21.0	21.9	22.1	21.7	
27 *	18.3	17.3	16.0	14.1	16.0	17.0	17.1	17.7	17.3	17.0	17.8	19.5	21.7	22.4	22.1	21.0	
28 *	19.2	19.0	18.9	18.8	18.3	18.0	17.5	17.7	17.2	17.2	19.2	21.8	23.5	24.2	24.1	23.0	
Mean	16.8	16.6	15.8	16.4	17.4	18.0	18.1	18.2	18.2	18.5	19.5	21.2	22.7	23.9	23.7	22.9	
Mean *	18.0	17.6	17.6	17.3	17.8	18.0	17.8	17.9	17.5	17.6	18.8	20.6	21.6	22.5	22.5	21.8	
Mean **	15.3	13.9	9.9	11.7	15.7	19.4	19.5	19.1	18.9	19.2	21.0	22.9	25.4	27.2	25.3	24.1	

* 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														JANUARY	
										h m		h m			
23.2	23.0	22.0	20.5	20.0	19.6	19.2	19.7	20.7	20.7	14 18	25.4	17.9	9 50	7.5	1
23.6	23.5	24.2	27.6	18.9	16.0	18.7	15.0	20.8	20.8	19 30	29.0	11.2	20 54	17.8	2
22.9	21.9	21.0	21.0	20.4	19.7	19.2	19.3	19.6	19.6	14 32	24.3	15.1	0 1	9.2	3
22.4	21.5	21.8	21.4	20.7	20.1	20.1	19.2	20.6	20.6	13 22	24.3	17.8	9 29	6.5	4
22.7	22.1	21.7	20.9	20.0	20.0	19.7	19.3	20.8	20.8	14 17	25.3	18.0	9 53	7.3	5 *
23.9	23.1	22.6	22.2	21.8	20.7	20.1	19.9	21.2	21.2	14 34	27.2	17.3	9 31	9.9	6
23.2	22.5	22.3	21.8	20.8	20.0	19.9	19.9	20.6	20.6	12 52	26.1	17.2	9 49	8.9	7
24.7	26.3	26.6	24.4	21.0	17.1	16.2	17.5	20.8	20.8	12 3	28.1	14.8	1 29	13.3	8
25.1	25.0	24.0	19.3	19.3	16.6	12.7	12.1	19.8	19.8	14 36	28.0	10.3	23 12	17.7	9
24.1	18.9	23.1	19.8	16.0	9.9	15.0	15.8	19.4	19.4	15 28	29.3	4.8	21 3	24.5	10 **
22.8	21.3	20.9	20.2	20.0	19.7	18.1	19.0	20.2	20.2	13 0	26.8	8.9	0 28	17.9	11
22.6	21.8	21.3	20.7	20.3	19.9	19.2	19.0	20.2	20.2	13 24	24.0	14.9	3 41	9.1	12
22.7	21.8	21.5	21.0	20.8	20.3	20.3	20.3	20.7	20.7	14 25	25.1	17.6	10 8	7.5	13 *
22.1	21.2	21.0	20.7	20.2	20.3	20.3	20.3	20.5	20.5	14 48	24.1	17.0	9 38	7.1	14 *
23.3	21.5	21.4	21.0	20.2	20.0	19.9	16.7	20.9	20.9	14 0	26.8	14.0	23 44	12.8	15
24.1	22.1	21.3	20.6	19.1	19.7	19.8	19.8	21.0	21.0	13 59	27.3	14.9	0 2	12.4	16
22.9	22.0	21.4	20.1	19.3	19.8	20.0	20.2	20.5	20.5	13 40	25.3	17.7	9 46	7.6	17
23.0	22.0	21.0	20.6	20.0	19.4	19.8	19.8	20.9	20.9	13 31	26.1	17.0	9 44	9.1	18 *
25.3	25.7	27.2	23.7	21.3	19.5	18.8	18.8	21.5	21.5	18 12	28.5	16.2	9 50	12.3	19
24.6	23.9	23.0	22.3	21.0	20.0	19.3	19.2	21.0	21.0	15 7	26.3	17.0	1 16	9.3	20 *
31.5	32.5	33.1	27.6	25.1	26.4	18.4	10.0	23.5	23.5	22 32	68.5	-33.1†	22 18	101.6	21 **
21.4	21.9	21.5	20.9	19.9	19.1	18.5	17.8	18.3	18.3	2 0	69.7†	4.6	2 19	65.1	22 **
24.6	23.6	20.9	20.0	18.1	15.0	13.1	16.9	19.2	19.2	14 23	27.1	11.1	22 1	16.0	23 **
24.3	23.9	24.1	15.0	19.3	21.3	19.0	9.6	18.7	18.7	15 11	28.1	6.8	23 24	21.3	24
20.9	20.2	20.0	19.8	19.9	10.6	17.1	18.8	17.1	17.1	14 6	23.3	2.3	0 19	21.0	25
20.4	21.0	22.1	21.7	20.9	19.0	16.4	17.0	19.2	19.2	14 16	25.1	13.7	22 52	11.4	26
23.2	22.8	22.1	21.0	20.0	18.8	18.1	18.9	20.2	20.2	15 28	25.7	15.0	9 0	10.7	27
23.1	23.2	21.9	22.1	21.0	19.5	17.9	19.1	19.9	19.9	14 10	25.3	16.3	22 16	9.0	28
32.3	31.0	26.1	25.8	19.9	18.7	18.0	11.3	21.9	21.9	14 44	29.2	8.3	23 26	20.9	29
23.7	23.7	23.1	20.2	19.7	19.5	19.1	17.1	20.7	20.7	13 21	29.4	12.0	1 58	17.4	30 **
23.1	22.8	23.7	20.2	19.6	19.7	17.3	17.7	19.2	19.2	14 11	25.8	14.2	4 36	11.6	31
23.8	23.2	22.8	21.4	20.1	18.9	18.4	17.6	20.3	20.3	-	29.2	12.0	-	17.2	Mean
23.0	22.2	21.6	21.1	20.4	20.0	19.9	19.8	20.8	20.8	-	25.4	17.3	-	8.1	Mean *
25.1	24.1	24.3	21.7	19.8	18.0	16.8	15.5	20.2	20.2	-	44.8	-0.1	-	44.9	Mean **

10° + Tabular Quantities														FEBRUARY	
										h m		h m			
21.4	22.1	22.3	20.7	20.0	20.0	19.3	19.0	19.6	19.6	15 17	24.1	16.0	0 15	8.1	1
23.5	24.0	23.6	23.1	20.9	19.9	18.5	17.6	20.3	20.3	14 37	28.4	16.0	24 0	12.4	2
23.3	24.5	25.0	24.0	18.8	17.0	17.6	16.4	19.7	19.7	18 19	25.1	13.0	21 28	12.1	3
26.1	21.4	22.6	18.6	17.0	13.1	11.8	15.5	19.2	19.2	16 20	31.2	9.7	22 54	21.5	4 **
22.9	21.6	22.3	21.6	19.0	12.8	14.4	16.2	18.8	18.8	13 7	33.1	1.6	2 19	31.5	5 **
24.1	22.9	21.9	20.5	19.9	18.8	18.7	18.8	19.5	19.5	13 30	25.1	14.9	2 4	10.2	6
21.9	22.0	21.9	22.1	20.7	19.9	17.9	16.9	19.6	19.6	11 31	23.0	16.0	23 57	7.0	7 *
22.7	22.9	22.5	22.3	20.4	20.0	19.7	18.0	19.3	19.3	14 2	23.9	14.4	3 30	9.5	8
21.8	23.7	25.8	23.1	21.9	20.3	19.9	18.7	19.7	19.7	18 36	26.3	14.9	3 16	11.4	9
21.4	21.9	21.6	21.2	20.7	20.1	19.9	19.6	19.4	19.4	13 50	22.8	13.9	1 7	8.9	10 *
19.8	22.0	21.4	20.3	19.3	19.0	19.2	19.3	20.1	20.1	13 53	26.1	15.4	16 41	10.7	11
21.0	21.3	20.9	19.8	20.8	20.1	19.2	19.0	20.1	20.1	14 30	24.0	15.6	5 37	8.4	12
21.0	20.7	22.3	5.2	15.5	19.1	19.1	19.0	20.4	20.4	12 30	30.5	-3.4	19 20	33.9	13 **
20.9	20.2	20.0	19.0	17.8	18.8	19.0	19.2	19.6	19.6	14 4	23.0	17.0	20 14	6.0	14
21.9	21.3	20.0	19.3	19.0	16.5	15.2	18.7	19.9	19.9	11 28	25.1	11.7	22 2	13.4	15
21.6	20.3	22.1	20.4	19.2	19.2	18.8	17.4	20.1	20.1	14 29	23.9	16.8	23 48	7.1	16
25.1	25.1	24.4	24.7	24.4	21.0	19.2	15.8	20.8	20.8	13 30	26.9	15.0	22 59	11.9	17
22.3	20.9	16.7	14.3	22.1	17.0	14.1	11.9	17.6	17.6	15 31	26.3	10.0	0 49	16.3	18
22.0	21.0	21.0	17.8	17.8	18.7	10.8	12.8	19.0	19.0	12 52	26.3	5.8	22 34	20.5	19
22.1	22.1	21.3	20.5	20.7	17.7	16.4	17.5	18.8	18.8	12 10	26.1	9.2	2 50	16.9	20
26.1	21.5	22.5	19.9	16.3	14.5	12.3	12.0	18.7	18.7	13 10	33.3†	6.2	2 30	27.1	21 **
18.7	20.0	20.2	15.3	16.0	19.2	18.1	14.8	18.8	18.8	14 13	27.1	10.5	19 52	16.6	22
22.1	20.4	6.5	19.8	22.9	22.4	16.0	8.0	18.9	18.9	20 4	28.0	-3.5†	18 26	31.5	23
18.8	18.2	20.7	20.5	19.9	19.9	19.3	18.3	18.0	18.0	1 14	31.2	-2.0	2 12	33.2	24 **
20.0	19.8	19.9	19.7	19.6	19.5	19.2	19.0	18.7	18.7	11 39	22.9	12.9	2 35	10.0	25
20.8	20.3	20.2	19.9	19.6	19.1	19.0	18.8	19.3	19.3	15 6	22.3	17.1	2 49	5.2	26 *
19.9	20.1	20.3	19.3	19.0	19.2	19.7	19.2	18.7	18.7	13 22	22.2	13.1	3 21	9.1	27 *
21.2	21.9	21.5	20.7	20.1	19.1	18.8	19.0	20.0	20.0	13 56	24.9	17.0	9 12	7.9	28 *
21.9	21.6	21.1	19.8	19.6	18.6	17.5	17.0	19.4	19.4	-	26.2	11.2	-	14.9	Mean
21.0	21.2	21.1	20.6	20.0	19.5	19.1	18.7	19.4	19.4	-	23.0	15.4	-	7.6	Mean *
23.0	20.7	22.1	17.2	17.5	15.9	15.4	16.2	19.0	19.0	-	31.9	2.4	-	29.4	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° + Tabular Quantities																	
1	19.0	19.1	18.0	18.0	17.2	17.1	17.5	18.0	17.7	17.8	19.4	19.8	24.3	27.1	26.1	26.2	
2 **	11.1	13.2	8.3	3.1	3.8	31.1	19.7	21.3	12.2	15.7	18.0	23.0	24.2	29.1	29.1	25.5	
3	16.5	13.2	16.0	17.2	18.0	16.2	16.0	17.9	17.0	16.7	18.0	20.7	21.8	25.1	26.1	24.2	
4	17.7	17.0	14.8	13.3	14.4	14.9	17.1	17.3	16.5	17.9	19.7	22.4	24.8	25.9	24.4	23.0	
5	15.1	17.9	16.0	16.1	16.3	17.8	16.5	17.1	15.3	16.2	18.3	20.8	22.0	26.1	25.1	24.4	
6	11.5	14.6	17.2	17.4	16.6	17.2	17.5	17.1	15.7	16.9	18.3	18.8	22.2	25.8	27.0	25.8	
7 *	18.3	19.0	18.0	17.6	17.8	18.0	17.7	17.0	16.0	16.1	18.1	20.7	24.4	26.8	27.1	25.6	
8	11.7	17.2	17.4	18.2	18.0	17.0	17.3	16.9	17.1	16.2	17.0	21.3	24.0	25.6	23.8	23.9	
9	13.2	13.0	12.0	9.7	11.6	16.0	16.0	16.9	14.8	15.3	16.8	19.8	23.1	26.3	27.3	25.2	
10 **	18.8	17.8	16.0	15.6	17.8	16.0	12.0	13.0	14.2	15.8	20.0	24.1	26.1	25.8	33.1	29.1	
11 *	10.0	12.9	14.0	15.0	15.5	15.8	15.6	15.9	16.7	17.3	18.7	20.7	22.9	23.1	23.1	21.2	
12 *	18.0	18.1	18.7	18.7	17.3	17.2	18.3	18.1	19.1	18.7	20.0	21.8	22.1	23.6	22.8	21.3	
13 *	18.6	18.4	18.0	17.7	17.8	17.7	17.0	15.0	13.0	14.0	18.0	21.9	25.0	26.3	26.1	25.1	
14 *	19.1	19.2	19.0	18.8	18.5	17.9	17.1	14.9	13.0	13.4	15.3	18.8	23.0	25.0	25.4	24.2	
15	18.8	19.1	20.0	19.0	18.0	17.6	16.9	15.6	12.0	11.7	14.8	19.5	24.1	26.1	27.0	25.3	
16	10.1	11.1	14.1	16.0	17.5	17.9	17.1	15.0	13.3	14.0	18.2	23.7	27.5	28.4	28.1	24.9	
17	18.0	17.5	15.2	16.0	17.1	16.7	18.0	13.8	12.2	13.2	17.5	22.1	27.4	29.3	28.2	26.1	
18	18.0	18.0	17.3	19.5	20.0	18.4	17.2	16.0	13.5	14.4	17.3	24.2	29.1	29.1	27.3	26.0	
19	15.1	15.0	16.7	17.1	17.0	16.8	17.0	14.0	13.1	17.0	20.2	23.8	26.4	28.0	28.1	26.3	
20	14.3	12.0	14.0	16.0	15.6	16.7	15.2	17.1	13.9	12.0	13.8	18.2	22.6	25.1	25.3	25.4	
21	16.5	16.8	16.0	15.5	15.0	16.6	16.9	15.0	12.9	13.0	15.0	19.1	23.8	27.9	27.5	29.1	
22	13.2	15.6	16.4	16.3	16.0	15.1	16.0	16.8	16.1	17.0	20.3	23.1	25.9	29.2	28.9	25.6	
23	19.9	15.5	13.0	13.3	17.2	16.8	16.9	16.5	15.3	15.3	19.5	22.4	26.4	26.1	25.3	25.1	
24	17.3	18.0	17.9	16.6	16.9	17.6	16.9	14.1	13.4	14.0	16.0	19.9	22.5	25.0	25.2	24.1	
25	18.3	18.6	14.0	11.8	5.9	8.5	14.7	14.9	10.9	16.2	20.0	23.0	26.4	26.1	27.0	25.1	
26	17.2	17.6	17.7	17.9	17.4	17.1	16.7	14.8	12.0	11.7	13.4	19.1	23.0	27.6	28.4	26.2	
27 **	14.3	16.0	16.9	17.1	15.0	15.8	14.1	13.9	14.0	14.9	17.0	24.1	29.1	30.1	33.5	30.2	
28 **	1.7	2.0	13.7	16.5	13.0	17.4	18.3	17.8	14.8	20.1	17.0	19.9	21.4	23.0	23.4	23.2	
29 **	18.0	17.2	17.8	17.8	15.9	12.2	13.1	10.9	13.0	13.0	16.0	21.9	26.1	34.8	34.3	34.2	
30	13.9	5.3	8.4	13.4	16.7	16.4	15.7	14.1	15.0	16.0	19.0	23.1	26.0	27.6	27.0	25.3	
31	16.8	15.6	17.6	15.1	16.0	16.0	15.2	14.0	13.0	14.0	16.9	21.8	24.9	29.1	26.1	26.1	
Mean	15.4	15.5	15.8	15.8	15.8	16.9	16.5	15.8	14.4	15.3	17.7	21.4	24.6	26.9	27.0	25.6	
Mean *	16.8	17.5	17.5	17.6	17.4	17.3	17.1	16.2	15.6	15.9	18.0	20.8	23.5	25.0	24.9	23.5	
Mean **	12.1	13.2	14.5	14.0	13.1	18.5	15.4	15.4	13.6	15.9	17.6	22.6	25.4	28.6	30.7	28.4	
APRIL																	
10° + Tabular Quantities																	
1	11.6	15.0	17.0	17.2	14.2	15.6	15.7	13.3	14.1	12.3	15.0	20.0	25.3	28.2	27.7	28.0	
2	12.3	14.8	16.1	16.4	16.0	15.2	15.0	13.2	13.7	13.3	15.6	18.7	24.3	26.4	27.1	26.1	
3	17.1	17.1	17.2	17.7	16.4	17.6	17.7	16.3	14.0	12.9	17.2	21.5	25.1	26.1	26.1	25.8	
4	12.0	12.4	14.0	9.9	11.8	15.7	13.9	11.5	11.0	12.1	16.3	20.1	25.1	25.6	28.3	27.6	
5 **	11.3	10.1	9.8	12.2	13.8	15.0	13.7	13.0	11.0	11.0	17.1	22.4	27.3	28.1	30.3	29.4	
6	9.6	6.9	14.4	14.8	14.2	19.0	20.4	18.0	14.2	14.5	21.0	23.1	25.0	27.1	27.8	25.4	
7 *	17.8	17.0	16.4	17.0	17.0	17.2	16.2	13.4	12.0	12.0	13.7	17.5	22.4	25.5	25.7	24.3	
8	16.7	16.2	17.0	16.8	17.1	18.1	19.7	17.2	16.0	16.0	19.0	24.5	28.1	30.1	30.0	28.0	
9	15.8	16.6	15.0	15.6	14.9	17.6	19.2	16.2	16.0	16.0	19.2	22.2	26.1	27.3	27.3	25.3	
10 **	9.9	12.2	9.9	4.6	9.7	16.3	13.5	14.7	21.0	18.4	18.8	21.0	25.1	26.0	24.4	24.7	
11	18.7	16.3	16.3	16.2	15.8	15.0	13.5	12.8	11.3	12.8	17.7	22.1	26.8	28.0	26.7	24.1	
12	18.5	18.0	17.0	16.8	15.8	16.4	15.3	14.5	12.0	13.2	17.3	20.8	23.2	26.1	25.0	24.1	
13 *	20.3	20.0	19.9	17.0	15.6	16.8	16.8	14.6	14.2	14.0	15.4	19.5	24.1	26.1	25.1	23.7	
14 *	19.0	18.2	17.7	17.0	16.1	15.2	14.1	12.2	11.1	12.4	15.1	18.7	22.2	24.8	24.9	23.7	
15	18.9	18.2	18.1	17.1	17.6	17.3	17.1	14.9	11.6	12.2	15.5	22.1	27.1	27.7	29.8	27.3	
16	11.1	12.8	12.2	13.2	15.2	14.6	14.5	13.0	12.2	13.1	6.0	20.8	25.9	30.0	29.9	18.6	
17 **	14.0	15.8	16.2	15.8	14.8	16.0	16.0	14.3	12.2	14.0	17.4	21.9	27.3	32.2	31.3	29.2	
18 **	9.7	14.7	14.3	14.4	14.0	14.9	15.7	15.9	14.4	16.1	17.9	20.1	23.9	25.9	25.0	26.7	
19 **	7.5	9.5	5.4	6.9	4.8	9.9	17.7	23.1	14.2	16.0	18.4	21.0	23.1	24.8	26.3	24.1	
20	15.8	15.7	18.5	17.1	15.3	15.9	14.1	12.8	12.5	13.2	15.2	20.1	23.8	25.1	25.2	24.1	
21	17.6	14.8	15.5	15.6	14.2	10.5	10.2	11.1	13.2	15.2	19.6	23.1	27.1	29.8	28.1	28.3	
22 *	17.4	16.9	17.0	16.2	15.9	15.2	14.1	13.2	12.3	12.8	15.0	18.0	21.8	24.0	24.9	24.0	
23	18.2	16.3	13.0	13.3	14.6	15.5	14.8	13.4	12.3	13.0	15.7	18.4	22.6	26.0	26.1	24.4	
24	11.8	13.8	15.7	16.3	15.8	14.3	13.0	11.0	9.9	11.8	15.0	18.0	22.1	26.8	29.2	26.3	
25 *	16.2	17.8	17.0	16.2	15.0	14.0	13.0	11.8	12.7	14.3	17.0	20.2	23.9	25.9	24.8	22.1	
26	17.0	17.0	15.2	13.5	11.7	12.7	14.0	10.7	11.2	11.0	16.0	22.4	28.0	30.1	30.2	26.1	
27	11.8	14.7	16.0	13.0	14.2	11.7	12.2	10.2	11.2	15.7	19.0	22.1	24.9	25.4	23.9	23.0	
28	18.0	17.6	17.2	17.0	16.0	15.2	15.0	14.8	12.4	11.9	15.1	19.5	24.2	28.3	28.1	27.4	
29	17.2	15.0	11.3	14.0	14.0	13.0	13.0	11.2	9.7	11.2	14.0	19.0	24.0	26.3	26.1	26.0	
30	18.2	18.2	17.8	16.0	17.2	16.0	14.0	10.7	10.1	10.0	14.0	18.8	22.1	24.1	24.0	25.1	
Mean	15.0	15.3	15.3	14.8	14.6	15.2	15.1	13.8	12.8	13.4	16.3	20.6	24.7	26.9	27.0	25.4	
Mean *	18.1	18.0	17.6	16.7	15.9	15.7	14.8	13.0	12.5	13.1	15.2	18.8</					

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			
29.2	32.2	27.9	23.2	22.6	21.0	18.5	13.8	21.3	17 47	33.2	10.4	23 44	22.8	1
21.3	23.0	20.5	18.2	20.2	3.4	10.1	13.9	17.5	5 35	61.3†	- 6.4	21 30	67.7	2 **
22.2	16.5	18.0	17.1	18.8	15.3	16.9	18.4	18.5	14 14	27.1	9.0	0 0	18.1	3
21.4	20.2	19.8	19.4	19.3	14.8	13.9	14.1	18.5	13 12	26.6	11.2	3 43	15.4	4
23.3	21.0	19.0	19.5	18.6	17.0	13.8	15.7	18.7	13 19	27.7	12.7	22 36	15.0	5
20.9	20.0	20.4	20.6	19.8	19.2	18.9	18.7	19.1	14 13	27.5	8.3	0 24	19.2	6
21.0	20.0	20.7	20.2	19.0	17.2	17.0	14.9	19.5	14 45	27.8	14.0	24 0	13.8	7 *
22.4	21.6	20.9	19.1	16.0	16.8	17.3	15.7	18.9	13 24	26.9	9.6	0 16	17.3	8
24.9	21.8	20.4	19.2	19.0	17.2	16.8	17.2	18.1	15 0	28.1	8.2	3 39	19.9	9
22.1	26.1	21.2	25.0	21.7	10.0	16.1	8.1	19.4	14 36	40.1	- 2.7	23 40	42.8	10 **
19.5	19.8	20.0	19.8	19.9	19.7	19.3	18.9	18.1	14 15	24.1	8.0	0 28	16.1	11 *
19.4	19.2	19.2	19.0	19.3	19.1	19.2	19.0	19.5	13 41	24.7	16.3	4 40	8.4	12 *
22.1	22.0	20.5	18.5	18.4	18.1	17.1	19.0	19.4	14 4	27.2	12.2	8 40	15.0	13 *
22.7	20.9	20.0	19.7	19.7	19.7	19.9	19.0	19.3	14 40	26.0	11.9	8 44	14.1	14 *
21.9	20.2	19.8	18.0	19.0	20.6	19.0	14.9	19.1	14 44	27.4	10.3	9 7	17.1	15
24.2	22.1	23.1	15.2	14.0	10.3	15.7	18.6	18.3	12 41	30.3	2.8	21 26	27.5	16
23.6	17.2	19.0	19.4	19.8	18.7	16.6	17.6	19.2	13 15	30.3	11.3	8 59	19.0	17
23.0	20.9	20.1	20.0	20.0	17.9	17.0	17.0	20.1	12 59	32.0	12.8	8 35	19.2	18
25.2	23.2	22.1	18.7	16.0	17.6	17.7	17.9	19.6	14 27	29.1	12.0	8 15	17.1	19
23.5	21.8	21.0	20.5	20.1	18.0	18.0	16.0	18.2	14 36	25.6	11.4	1 23	14.2	20
32.0	32.8	29.6	22.7	20.0	20.0	16.0	15.0	20.2	16 56	35.6	10.8	23 31	24.8	21
24.4	19.7	18.3	15.2	18.1	19.0	17.6	18.4	19.3	13 19	30.3	10.8	0 21	19.5	22
22.1	19.0	19.0	20.0	20.0	16.0	16.8	17.1	18.9	12 30	27.6	10.8	3 31	16.8	23
22.1	21.2	20.7	19.2	18.0	16.0	19.0	19.0	18.8	14 36	25.3	10.3	21 4	15.0	24
21.8	19.9	19.4	19.1	19.6	19.4	19.0	18.1	18.2	12 35	28.7	1.6	4 22	27.1	25
26.1	23.1	21.4	19.1	17.4	14.9	10.0	13.0	18.5	14 20	30.8	6.9	22 11	23.9	26
25.1	23.1	19.0	13.3	16.0	6.3	8.8	6.0	18.1	14 30	34.3	- 6.2	23 49	40.5	27 **
22.0	20.0	18.7	18.6	18.9	19.1	19.0	18.6	17.3	15 9	25.4	-13.2†	0 56	38.6	28 **
21.2	24.6	18.0	17.3	20.1	19.3	12.5	13.2	19.3	15 27	43.8	5.5	8 3	38.3	29 **
22.6	20.1	19.5	19.2	19.0	18.0	17.5	15.2	18.1	14 17	28.0	- 4.2	1 16	32.2	30
21.7	19.0	17.7	17.6	16.0	14.0	13.7	14.7	18.0	13 30	28.9	10.8	22 51	18.1	31
23.1	21.7	20.5	19.1	18.8	16.6	16.4	16.0	18.9	-	30.4	7.3	-	23.0	Mean
20.9	20.4	20.1	19.4	19.3	18.8	18.5	18.2	19.2	-	26.0	12.5	-	13.5	Mean *
22.3	23.4	19.5	18.5	19.4	11.6	13.3	12.0	18.3	-	41.0	- 4.6	-	45.6	Mean **
10° + Tabular Quantities													APRIL	
										h m	h m			
24.0	19.9	15.3	15.0	15.8	16.2	14.7	12.0	17.6	13 37	29.7	9.4	23 56	20.3	1
23.3	21.4	17.6	15.5	17.6	17.3	13.0	15.0	17.7	14 12	28.2	9.9	0 0	18.3	2
23.1	19.9	16.4	11.0	14.0	13.4	12.6	13.1	17.9	14 32	27.2	9.0	19 26	18.2	3
25.0	21.6	20.0	18.2	14.2	14.7	12.8	11.1	16.9	14 31	29.1	9.0	3 18	20.1	4
23.3	23.2	21.3	21.2	21.0	20.0	18.2	12.2	18.2	14 57	38.1†	5.1	23 44	33.0	5 **
22.9	20.8	20.0	19.8	19.2	19.0	18.2	17.8	18.9	14 31	28.1	5.1	1 26	23.0	6
22.1	21.0	20.5	20.1	19.7	19.3	19.0	18.9	18.6	14 5	26.1	11.3	8 15	14.8	7 *
24.4	21.9	19.7	19.0	17.8	15.7	15.9	14.9	20.0	14 5	31.2	10.4	21 52	20.8	8
24.0	22.3	20.4	18.0	15.3	14.0	12.0	13.0	18.7	14 33	28.1	5.3	23 57	22.8	9
18.5	15.0	14.8	16.3	18.8	19.2	19.2	19.0	17.1	15 11	26.9	- 0.1	3 52	27.0	10 **
21.9	19.9	19.1	19.9	19.7	19.0	17.9	17.1	18.7	13 33	29.8	10.7	8 27	19.1	11
21.9	17.5	16.0	17.1	18.7	17.9	17.8	18.5	18.3	13 39	26.9	11.6	7 58	15.3	12
21.9	20.1	19.0	19.0	19.2	19.0	18.2	19.0	19.1	13 45	26.4	13.8	9 35	12.6	13 *
22.6	21.3	20.8	20.8	20.0	20.0	19.8	19.2	18.6	14 2	25.1	10.8	8 24	14.3	14 *
24.8	22.3	20.6	19.7	18.2	17.7	16.5	6.2	19.1	14 46	31.2	2.8	23 27	28.4	15
26.2	22.5	20.2	19.8	18.3	17.8	15.1	14.2	17.4	13 42	30.9	6.9	0 0	24.0	16
26.3	26.2	25.2	24.2	21.9	22.1	15.5	10.6	20.0	13 28	37.3	3.3	23 57	34.0	17 **
25.9	25.4	18.9	17.8	19.2	15.3	14.4	13.3	18.1	15 56	30.2	6.1	0 0	24.1	18 **
23.2	19.7	18.0	18.0	14.0	14.8	14.9	14.3	16.2	7 5	28.2	- 2.0†	2 12	30.2	19 **
22.9	19.5	20.2	19.5	19.3	18.4	17.9	17.6	18.3	13 10	25.9	11.4	8 21	14.5	20
27.0	24.1	19.6	19.8	20.2	19.0	16.8	17.5	19.1	13 40	30.4	9.5	6 16	20.9	21
22.9	20.5	18.2	19.8	20.9	20.4	19.8	19.0	18.3	14 27	25.1	12.2	8 44	12.9	22 *
23.3	22.1	21.2	20.8	20.2	17.8	18.0	16.6	18.2	14 3	27.9	11.3	24 0	16.6	23
24.1	23.7	20.8	19.2	19.2	18.4	17.2	13.9	17.8	14 53	33.9	8.2	8 36	25.7	24
20.4	18.9	17.3	16.0	16.3	18.0	17.5	17.0	17.6	13 52	26.3	11.1	7 7	15.2	25 *
23.1	22.4	18.6	14.0	13.0	11.8	12.2	12.8	17.3	14 18	32.7	9.3	7 47	23.4	26
21.3	19.6	17.7	17.9	17.0	17.0	17.9	16.8	17.3	13 16	27.3	8.7	0 54	18.6	27
24.1	22.9	19.2	17.0	14.1	15.1	17.0	15.6	18.4	14 1	29.1	10.3	21 46	18.8	28
24.0	21.0	19.0	18.0	18.0	17.8	18.0	18.0	17.5	13 20	26.9	8.6	8 20	18.3	29
22.0	20.9	19.9	16.8	15.8	17.2	13.9	13.4	17.3	15 17	26.2	9.1	7 47	17.1	30
23.3	21.3	19.2	18.3	17.9	17.4	16.4	15.3	18.1	-	29.0	8.3	-	20.7	Mean
22.0	20.4	19.2	19.1	19.2	19.3	18.9	17.9	18.4	-	25.8	11.8	-	14.0	Mean *
23.4	21.9	19.6	19.5	19.0	18.3	16.4	13.9	17.9	-	32.1	2.5	-	29.7	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	**	14.0	11.0	14.0	12.6	15.5	18.9	17.4	15.4	12.4	12.2	15.5	21.2	23.4	25.0	26.1	25.3
2		18.2	18.6	17.8	18.6	16.4	18.2	19.2	15.2	13.1	12.2	15.0	19.3	24.3	25.4	25.1	24.4
3		14.2	14.0	15.2	15.8	13.9	13.6	13.0	12.3	12.3	13.8	17.9	21.0	25.1	27.2	28.1	26.8
4		14.8	14.0	14.0	14.0	12.8	11.0	9.5	8.9	8.1	10.0	13.2	17.2	22.1	26.3	28.0	26.3
5	§	-	-	-	-	-	-	-	-	-	-	13.5	16.0	20.0	22.9	24.6	23.7
6		14.3	12.2	12.8	15.2	12.7	12.5	12.2	13.2	12.7	12.8	15.5	18.9	23.9	24.4	25.1	22.9
7		14.9	15.4	16.7	16.9	16.0	17.9	14.0	13.0	13.0	14.0	16.8	19.1	21.6	24.3	24.3	23.1
8		18.2	17.7	17.5	17.1	16.8	14.9	13.5	12.8	13.0	14.4	17.3	22.1	25.9	26.8	25.1	24.3
9	**	14.3	14.2	13.1	12.9	12.1	12.0	15.0	14.8	11.7	10.8	13.8	16.2	21.3	24.0	23.1	20.9
10		18.2	17.0	16.2	14.8	14.0	13.3	12.8	11.8	12.3	14.4	18.0	20.8	22.8	23.2	22.5	21.3
11		16.0	14.9	15.0	14.0	14.5	13.1	12.0	11.8	12.8	13.7	16.2	19.3	22.1	23.8	24.0	22.5
12	*	14.4	15.1	16.8	16.3	15.2	14.1	13.2	13.0	13.7	15.4	16.8	19.0	20.7	21.9	22.3	21.3
13		19.4	15.3	13.8	14.2	14.0	14.2	11.2	9.9	10.0	12.6	16.8	21.3	23.4	24.9	25.3	23.4
14		18.2	18.2	18.4	17.4	17.9	16.1	12.4	10.4	10.3	13.6	17.7	21.9	24.5	27.8	27.3	24.2
15	*	17.6	17.6	17.2	17.0	16.2	14.4	12.2	10.5	10.0	11.9	15.3	19.4	23.4	27.0	27.3	24.8
16	*	18.0	17.6	17.2	17.3	17.0	15.0	13.0	11.0	10.6	12.2	14.9	18.8	23.8	26.1	26.1	24.9
17		16.4	16.0	15.8	16.1	15.2	14.0	13.0	11.2	10.0	11.0	14.8	20.0	23.4	25.9	26.1	25.4
18		16.0	15.2	16.0	15.8	15.7	13.9	12.1	11.0	9.1	11.3	15.1	19.2	22.9	25.4	26.3	25.1
19		16.3	15.0	15.5	15.8	15.6	14.0	12.2	10.1	10.1	12.6	15.6	21.0	27.8	28.8	28.6	28.1
20	**	18.5	15.8	13.4	15.0	15.7	16.8	13.4	11.6	12.0	14.6	18.6	21.7	25.0	28.3	27.2	26.8
21		15.8	18.2	16.1	15.9	15.8	16.8	13.0	11.4	12.3	13.8	18.2	22.1	25.3	25.8	26.3	25.2
22		16.2	16.0	16.0	16.2	15.8	12.7	11.8	11.9	13.2	16.2	18.8	21.7	24.2	25.3	25.2	23.9
23		18.1	18.7	16.8	15.4	16.0	14.5	13.8	15.1	14.5	14.8	17.2	20.2	23.3	23.7	24.4	23.1
24	*	18.0	17.3	17.0	16.6	15.2	14.1	13.2	12.0	13.0	16.0	19.8	23.1	26.1	26.3	26.3	24.3
25		17.8	17.3	17.2	14.0	12.3	11.7	8.3	7.7	11.0	12.5	16.1	20.8	24.8	28.1	30.2	26.9
26	**	15.0	13.3	13.0	12.2	14.1	11.2	10.2	9.0	10.2	15.2	20.7	27.1	29.1	30.1	27.1	26.9
27		19.3	19.2	18.0	16.7	16.0	14.9	13.8	12.0	12.5	15.2	18.8	22.1	26.2	29.1	28.1	25.9
28		18.2	17.8	18.0	17.0	16.2	14.3	10.7	9.9	9.9	13.0	17.8	22.1	25.9	27.6	26.7	24.1
29	*	17.1	16.9	16.2	16.2	15.5	13.8	10.5	10.2	11.7	14.3	18.8	22.1	26.0	28.0	27.1	25.1
30	**	17.5	15.6	15.0	14.9	14.5	12.9	11.0	10.5	9.9	11.2	16.9	22.1	27.2	27.9	29.0	28.8
31		14.8	13.0	15.5	13.4	14.8	12.9	9.7	8.1	7.5	10.2	15.0	19.1	22.2	24.3	25.0	23.8
Mean		16.7	16.0	15.9	15.6	15.2	14.4	12.7	11.6	11.5	13.3	16.9	20.8	24.3	26.1	26.0	24.6
Mean *		17.0	16.9	16.9	16.7	15.8	14.3	12.4	11.3	11.8	14.0	17.1	20.5	24.0	25.9	25.8	24.1
Mean **		15.9	14.0	13.7	13.5	14.4	14.4	13.4	12.3	11.2	12.8	17.1	21.7	25.2	27.1	26.5	25.7
JUNE																	
10° + Tabular Quantities																	
1	*	17.2	17.0	16.6	16.0	15.0	13.0	9.9	8.7	8.8	11.0	14.1	18.0	22.9	24.3	24.9	24.5
2	*	17.4	18.1	18.0	19.0	17.9	13.8	12.0	11.2	11.0	13.0	16.7	21.1	25.1	27.3	27.3	27.5
3		17.2	17.0	16.8	15.2	16.7	15.0	12.7	10.7	11.4	13.8	17.2	20.1	24.1	25.0	28.4	30.2
4	**	18.9	13.8	19.0	11.8	15.4	18.6	16.1	14.9	12.7	11.3	16.4	19.6	23.1	23.1	24.1	22.2
5		13.0	13.0	8.3	8.1	9.2	11.8	10.6	10.0	13.2	14.1	17.0	20.3	24.4	26.0	25.0	25.1
6	**	13.0	9.9	12.7	9.8	16.2	17.0	17.9	16.2	16.0	14.7	17.7	20.3	23.3	22.1	24.0	24.0
7		17.8	16.0	11.3	10.8	11.0	9.8	9.8	9.7	9.8	11.0	14.3	18.0	21.1	22.3	23.3	22.4
8		17.0	18.2	15.2	12.2	12.6	11.8	11.0	10.1	10.6	12.0	15.3	18.8	21.1	22.4	23.3	23.1
9	*	18.6	17.6	17.0	17.0	15.4	13.2	10.1	9.1	10.6	13.0	16.0	19.0	22.6	24.1	24.3	23.1
10	*	18.0	17.8	17.0	16.3	15.6	14.0	12.4	12.8	12.7	14.0	16.7	19.7	23.1	24.9	24.8	23.4
11	*	17.9	17.4	16.9	16.0	13.8	11.1	9.0	8.3	9.0	12.0	17.0	22.1	26.1	27.0	26.0	23.3
12		18.0	18.4	16.8	15.7	14.1	11.6	8.9	9.5	12.5	14.9	17.2	21.7	25.8	25.8	26.7	25.7
13		16.7	15.4	15.8	15.8	14.7	11.9	9.7	9.8	9.8	12.7	17.2	21.4	22.5	23.4	24.1	23.1
14		16.8	17.3	16.7	17.2	15.2	13.8	11.2	9.7	11.0	12.7	15.9	20.3	25.8	27.3	27.3	27.0
15		16.6	13.8	13.0	14.4	15.2	17.1	13.7	10.6	9.4	12.0	15.2	17.8	21.1	23.7	27.8	26.6
16		16.2	16.0	15.3	14.3	13.0	11.6	10.7	10.1	10.0	12.0	15.2	18.8	20.8	22.4	24.3	24.4
17		16.8	16.6	15.8	13.0	10.0	10.6	14.2	9.2	7.9	9.8	14.8	20.0	21.5	22.9	25.6	23.2
18		16.8	15.1	15.2	10.8	19.1	15.9	11.8	12.7	12.4	13.4	16.2	20.3	23.9	26.1	27.4	26.1
19		15.1	14.0	15.3	13.6	11.7	12.2	10.6	10.1	9.6	12.3	16.0	21.3	25.2	28.1	27.9	26.9
20		16.0	17.1	16.2	14.0	14.3	15.1	12.8	11.9	10.7	12.0	14.9	17.7	20.3	23.2	25.1	26.1
21		16.0	15.3	15.0	12.3	11.0	10.0	11.0	8.9	8.0	11.0	14.0	17.6	20.9	23.0	24.6	25.7
22		15.1	12.0	13.2	14.2	13.1	12.3	10.6	8.3	7.9	12.1	16.0	24.1	28.1	29.9	28.9	27.1
23		13.5	14.9	14.8	14.4	14.1	12.3	10.4	11.0	12.1	14.8	17.9	21.2	24.9	26.3	26.7	25.9
24		17.2	15.0	9.2	8.9	6.9	7.8	5.6	4.9	9.9	12.2	17.1	20.6	22.9	25.0	25.1	24.9
25	**	15.4	13.7	7.7	8.9	7.2	6.5	7.8	6.9	8.9	11.2	15.6	20.2	24.1	25.1	25.3	24.8
26	**	13.8	11.7	6.8	7.9	8.9	13.0	14.9	16.2	24.9	23.1	23.2	26.8	27.4	25.4	25.9	26.0
27		17.0	14.7	14.4	13.2	12.0	9.0	7.6	8.1	12.0	15.0	17.2	20.9	25.0	28.3	29.1	27.4
28		18.2	16.3	17.8	15.8	13.7	10.6	7.1	7.7	10.6	15.0	18.0	20.9	22.8	23.7	24.1	26.1
29		15.1	15.0	15.2	15.1	14.1	12.0	9.9	9.9	11.0	12.9	17.0	20.8	25.1	27.8	27.1	25.5
30	**	17.5	17.0	17.7	17.0	15.2	12.4	6.8	4.6	2.4	7.7	15.0	20.0	30.8	32.0	32.2	31.0
Mean		16.5	15.5	14.7	13.6	13.4	10.9	10.9	10.1	10.9	12.9	16.4	20.3	23.9	25.3	26.0	25.4
Mean *		17.8	17.6	17.1	16.9	15.5	13.0	10.7	10.0	10.4	12.6	16.1	20.0	24.0	25.5	25.5	24.4
Mean **		15.7	13.2	12.8	11.1	12.6	13.5	12.7	11.8	13.0	13.6	17.6	21.4	25.7	25.5	26.3	25.6

* International Quiet Day. ** International Disturbed Day.

§ May 4 and 5 are not included in the Means.

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	
24.1	22.0	20.0	18.5	18.5	18.4	18.0	17.8	18.2	14 21	26.8	9.3	1 35	17.5
23.4	22.1	19.6	18.0	17.9	18.0	18.3	15.7	18.9	12 57	26.1	11.6	9 27	14.5
24.3	21.8	19.6	18.3	17.0	18.2	14.7	15.6	18.1	14 17	28.8	11.4	22 37	17.4
24.5	22.1	19.7	19.0	-	-	-	-	-	14 16	28.9	7.4	8 15	21.5
23.1	22.1	20.2	20.8	20.2	19.3	18.8	16.4	-	14 52	24.8	12.3	10 4	12.5
21.3	19.9	18.8	19.0	19.2	19.8	17.6	17.2	17.3	14 23	26.1	10.0	6 9	16.1
21.7	20.0	18.6	20.0	20.7	20.7	19.6	18.9	18.4	13 32	25.1	12.0	7 41	13.1
23.1	22.4	22.1	22.5	22.4	17.5	17.3	21.9	19.4	13 21	27.4	12.0	7 52	15.4
19.4	18.5	17.3	16.3	16.7	18.0	19.0	19.0	16.4	13 13	25.1	8.8	8 49	16.3
19.7	19.0	18.0	18.5	17.0	18.7	15.8	15.0	17.3	13 12	23.8	10.8	7 53	13.0
21.3	19.9	18.2	18.0	18.0	18.2	15.2	14.3	17.0	14 27	24.5	10.9	7 20	13.6
19.8	18.4	18.0	18.4	18.9	19.0	18.7	19.2	17.5	14 4	22.5	12.8	7 30	9.7
20.8	17.4	16.0	16.2	16.9	16.3	16.2	17.9	17.0	14 9	25.7	9.1	7 40	16.6
22.1	20.0	17.7	17.6	18.0	18.0	18.4	18.5	18.6	13 42	28.6	9.9	8 16	18.7
21.4	19.0	17.2	17.2	17.2	16.9	16.1	17.7	17.7	14 40	27.8	9.6	8 22	18.2
22.9	20.4	18.2	16.2	17.2	18.6	18.2	17.2	18.0	14 12	26.8	10.0	8 6	16.8
23.4	21.4	18.0	17.6	18.8	18.8	18.5	17.9	17.9	14 1	26.3	9.6	8 53	16.7
23.4	20.3	17.9	16.8	16.6	17.8	17.0	17.0	17.4	14 42	26.9	8.1	8 13	18.8
25.1	22.4	20.0	18.0	15.7	15.0	16.0	17.9	18.2	14 57	29.3	9.2	7 30	20.1
26.1	23.1	20.2	18.0	17.4	19.8	20.0	19.1	19.1	13 57	29.3	10.1	7 51	19.2
23.3	21.4	19.4	18.0	18.5	18.5	18.7	17.9	18.7	14 26	27.1	10.5	7 14	16.6
21.3	20.0	19.0	19.6	19.1	18.8	18.1	17.4	18.3	14 34	25.8	10.2	5 56	15.6
20.3	19.1	18.6	19.2	19.8	20.1	19.9	19.0	18.6	14 48	25.0	13.0	6 40	12.0
22.4	19.1	17.2	16.8	18.1	18.3	17.9	17.8	18.6	14 6	26.9	10.8	7 31	16.1
24.1	21.0	19.8	19.1	18.2	19.2	15.0	14.8	17.8	14 14	31.1†	6.8†	7 3	24.3
22.1	18.3	17.9	18.6	16.0	16.3	16.0	18.5	17.8	13 32	31.1†	6.9	7 28	24.2
22.1	18.3	16.7	17.0	17.0	17.0	18.2	18.1	18.8	13 37	29.9	10.9	7 41	19.0
20.0	16.8	15.4	16.3	17.9	18.8	18.8	17.8	18.0	13 11	28.1	8.7	8 6	19.4
21.3	19.0	17.6	16.9	16.2	17.0	17.8	18.0	18.1	13 32	28.4	9.7	7 31	18.7
26.6	23.9	19.0	17.3	18.0	16.8	15.0	15.9	18.2	15 41	29.4	7.7	9 2	21.7
22.3	21.0	20.0	19.1	18.7	18.0	18.0	17.1	16.8	14 10	25.3	6.9	8 20	18.4
22.3	20.2	18.5	18.0	18.0	18.2	17.5	17.6	18.0	-	27.1	9.9	-	17.2
21.6	19.2	17.6	17.1	17.5	18.0	17.7	18.0	18.0	-	26.5	10.6	-	15.9
23.7	21.2	18.9	17.7	17.3	17.9	17.6	18.1	17.9	-	28.3	8.6	-	19.8
10° + Tabular Quantities													
JUNE													
										h m		h m	
23.1	21.9	20.2	19.6	18.5	18.2	18.0	17.9	17.5	14 42	25.2	7.9	7 26	17.3
25.3	22.3	20.5	19.1	19.8	19.7	19.0	18.3	19.2	15 24	28.4	10.2	7 56	18.2
24.9	25.4	22.0	16.4	18.2	20.2	14.9	16.9	18.8	15 46	31.7	9.2	7 24	22.5
18.0	17.8	18.2	15.8	15.0	14.7	13.0	9.2	16.8	14 29	24.8	5.9	22 31	18.9
25.1	22.1	19.2	19.0	19.2	18.6	18.5	20.4	17.1	13 31	27.8	3.9	1 54	23.9
21.9	21.8	20.1	17.7	17.9	17.0	17.2	18.6	17.8	12 38	24.3	6.7	3 19	17.6
20.7	18.2	16.9	17.2	17.8	17.0	15.2	17.0	15.8	14 55	23.4	8.3	5 25	15.1
21.2	19.2	18.0	17.4	17.9	18.8	19.7	19.8	16.9	14 55	24.1	9.7	6 48	14.4
20.1	18.0	16.9	16.1	17.8	18.2	18.4	18.3	17.3	14 17	24.3	8.3	7 43	16.0
21.3	18.9	17.9	17.0	17.0	18.0	19.0	18.0	17.9	13 42	25.1	12.3	6 27	12.8
20.1	18.2	17.7	17.7	18.0	18.1	18.9	18.8	17.5	13 9	27.1	8.1	7 18	19.0
22.1	20.8	18.3	17.4	18.0	17.6	18.0	17.9	18.1	14 40	26.9	8.0	6 30	18.9
22.1	20.9	19.8	18.9	17.6	16.1	15.3	17.5	17.2	14 8	24.3	8.5	8 20	15.8
25.7	23.4	20.5	19.7	17.1	16.8	17.9	18.0	18.5	14 2	28.0	8.4	7 33	19.6
25.4	24.3	22.2	21.1	19.1	18.8	16.6	16.4	18.0	15 8	28.3	8.8	8 38	19.5
23.3	21.9	20.4	19.1	18.9	18.2	16.5	17.2	17.1	14 54	24.8	9.4	8 2	15.4
21.3	20.4	20.3	20.1	19.1	19.0	15.3	17.0	16.9	14 23	25.4	7.0	8 15	18.4
25.0	23.4	21.5	18.0	18.1	17.8	18.8	17.4	18.5	14 24	28.2	8.7	3 12	19.5
25.9	23.3	20.0	19.1	19.9	20.2	18.8	15.9	18.0	14 25	29.4	8.8	8 16	20.6
25.7	22.1	19.1	16.9	13.4	15.8	17.0	17.2	17.3	15 56	26.3	9.7	6 42	16.6
24.3	22.6	20.8	17.0	15.2	16.0	16.0	16.7	16.4	15 46	26.1	6.9	8 44	19.2
24.2	22.2	19.2	18.4	18.2	18.2	18.1	16.7	17.8	13 21	30.5	6.9	8 14	23.6
24.8	23.0	20.3	19.6	17.0	15.2	16.9	17.0	17.9	13 34	26.9	9.9	6 40	17.0
23.5	22.5	22.0	20.1	19.2	18.7	17.0	17.1	16.4	13 55	25.8	2.4	7 6	23.4
24.6	25.8	20.2	18.0	15.8	15.1	16.8	13.8	15.8	17 37	27.3	3.2	5 9	24.1
24.0	20.4	19.3	18.8	19.4	18.6	18.2	17.2	18.8	12 30	29.4	4.7	2 48	24.7
24.1	21.7	20.4	20.0	19.8	18.3	18.0	17.0	17.9	14 36	30.1	5.9	6 19	24.2
24.3	21.9	19.4	17.9	17.3	16.8	16.0	15.4	17.4	15 37	27.2	5.7	6 56	21.5
23.1	20.8	18.9	17.6	17.0	16.8	17.2	17.0	17.6	13 25	28.1	8.9	6 15	19.2
23.5	28.2	25.2	11.6	17.0	14.7	16.7	- 1.2	17.3	12 15	38.0†	- 8.9†	23 14	46.9
23.3	21.8	19.8	18.1	17.8	17.6	17.2	16.5	17.5	-	27.2	7.1	-	20.1
22.0	19.9	18.6	17.9	18.2	18.4	18.7	18.3	17.9	-	26.0	9.4	-	16.7
22.4	22.8	20.6	16.4	17.0	16.0	16.4	11.5	17.3	-	28.8	2.3	-	26.4

* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly value.
 § May 4. Maximum and Minimum value for the period from 0^h to 20^h.
 May 5. " " " " " " " " " " 10^h to 24^h.

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 **	7.6	4.9	-3.2	19.2	14.7	19.2	17.1	14.4	15.0	13.8	15.0	17.8	21.1	21.4	21.4	20.9	
2 **	14.8	14.5	14.6	14.4	14.0	12.1	10.7	9.0	9.6	6.9	11.0	14.2	17.7	25.4	29.0	30.6	
3 ** §	-	-	-	11.5	10.2	11.0	11.0	10.1	10.0	10.7	14.5	19.9	23.0	23.3	22.6	21.1	
4	15.6	15.3	15.3	15.0	14.8	13.4	12.0	10.4	10.3	11.1	13.0	16.0	18.9	22.5	25.1	24.9	
5 **	13.0	9.3	11.1	14.3	20.2	6.3	8.0	5.6	11.8	11.3	13.9	19.6	21.3	23.2	24.4	23.9	
6	12.2	13.7	12.1	10.4	11.6	10.8	11.5	10.1	10.7	12.1	13.2	15.6	18.0	18.8	20.8	22.3	
7	15.3	14.8	15.0	16.1	17.1	14.6	13.2	12.8	14.3	14.3	16.9	19.9	23.6	25.2	25.1	24.4	
8	16.1	15.0	16.1	17.2	14.8	11.6	11.8	9.1	11.0	11.1	13.0	15.9	20.8	22.9	23.4	23.1	
9	18.0	16.8	16.1	16.1	15.6	13.9	12.0	11.0	10.6	12.0	15.0	19.0	22.8	24.4	24.1	22.8	
10 *	17.1	17.3	17.7	14.0	12.8	12.3	12.0	11.9	11.0	12.7	16.0	19.8	22.1	23.1	23.2	22.7	
11 *	17.8	17.1	16.7	15.4	14.1	12.2	10.1	9.7	9.6	11.1	13.7	17.1	22.1	25.0	25.1	23.9	
12	16.0	15.0	15.8	14.6	15.0	11.8	10.5	8.6	9.9	10.8	14.6	20.0	23.8	25.1	25.1	24.1	
13 *	16.4	16.0	15.8	15.8	14.8	12.1	9.7	8.9	9.3	13.1	18.2	22.2	25.1	26.2	27.0	25.2	
14	17.7	17.2	17.0	16.5	15.0	12.9	11.0	9.9	10.7	13.3	17.2	21.4	26.1	28.1	27.6	25.8	
15 *	17.0	18.3	16.7	15.7	14.0	12.0	9.5	9.3	10.2	12.0	15.1	19.0	23.1	25.1	25.4	24.2	
16	17.0	17.0	16.1	16.0	15.3	13.1	11.0	9.9	12.6	12.9	15.8	19.4	23.6	25.1	26.6	26.4	
17	14.5	15.6	14.5	13.2	12.6	10.6	9.4	9.0	9.9	11.5	14.0	16.7	20.7	23.1	22.3	22.7	
18	17.0	16.2	16.1	14.7	13.0	10.7	12.2	12.5	12.8	12.8	14.3	15.2	18.3	19.9	21.3	23.0	
19 **	14.0	12.5	17.4	15.2	13.0	11.0	6.4	6.9	9.1	9.6	12.7	18.0	22.0	24.1	28.0	27.2	
20	12.1	12.1	8.6	9.9	10.2	10.0	10.7	9.9	11.0	13.0	14.6	17.6	20.6	23.9	24.5	23.1	
21	15.3	15.0	14.2	14.0	14.0	12.9	11.6	10.1	10.5	9.9	12.0	15.9	20.3	23.8	23.9	23.2	
22	14.7	14.6	14.2	14.0	12.0	7.8	9.8	12.8	12.2	14.2	17.0	22.1	24.2	26.2	26.2	24.5	
23	18.8	16.3	12.0	12.2	8.0	12.1	11.6	11.7	10.7	11.8	14.9	18.2	21.1	23.1	23.0	20.2	
24	16.8	15.1	15.6	15.2	15.0	12.7	12.0	10.6	12.0	12.2	15.0	18.6	21.1	22.6	25.1	24.1	
25	18.7	17.1	16.0	16.3	16.0	15.3	14.0	10.8	9.2	9.9	12.8	16.8	20.9	23.4	24.1	22.2	
26 *	17.0	16.7	16.3	16.1	15.2	13.2	11.7	9.6	8.4	10.8	13.3	17.3	21.3	23.1	23.1	22.2	
27	17.0	17.0	16.9	16.2	15.0	12.1	10.5	9.6	9.2	11.2	14.3	19.0	23.1	25.5	25.6	24.2	
28	17.3	16.6	15.9	14.9	13.8	12.6	10.4	9.7	9.9	13.3	16.6	20.7	24.2	27.1	27.3	26.0	
29	16.3	16.3	14.7	17.2	18.2	12.8	10.5	8.7	9.9	11.3	15.0	19.0	22.1	25.2	26.6	24.8	
30	16.0	16.1	16.0	15.2	14.7	13.3	12.0	9.5	9.5	14.0	16.4	20.0	23.1	25.1	25.8	24.8	
31	14.4	15.8	16.0	15.6	15.0	12.7	10.1	9.1	9.0	11.0	14.6	19.2	23.8	25.0	25.0	24.5	
Mean	15.7	15.2	14.6	15.0	14.3	12.3	11.1	10.0	10.7	11.8	14.6	18.4	21.9	24.1	24.8	24.1	
Mean *	17.1	17.1	16.6	15.4	14.2	12.4	10.6	9.9	9.7	11.9	15.3	19.1	22.7	24.5	24.8	23.6	
Mean **	12.4	10.3	10.0	15.8	15.5	12.2	10.6	9.0	11.4	10.4	13.2	17.4	20.5	23.5	25.7	25.6	
AUGUST																	
10° + Tabular Quantities																	
1	15.2	15.7	15.8	14.6	15.2	12.0	10.8	11.0	11.0	12.7	15.9	20.3	23.8	24.1	22.4	20.3	
2	17.0	14.3	16.0	11.6	10.8	10.3	10.8	9.9	10.2	12.3	16.0	20.0	24.2	25.9	25.1	24.0	
3 **	10.8	13.7	14.8	14.4	14.0	11.5	8.4	8.5	10.2	12.1	15.3	17.7	20.0	21.4	20.6	20.0	
4	4.0	13.2	12.0	13.6	12.8	11.1	10.0	10.0	10.4	13.0	16.0	19.1	21.8	22.4	22.7	21.8	
5	15.8	15.4	15.0	14.4	13.7	11.7	11.4	12.2	12.3	13.0	16.0	18.6	20.9	20.0	20.0	20.1	
6 **	9.5	9.1	6.6	8.7	12.0	11.0	11.3	14.8	14.9	17.0	21.5	24.2	24.3	25.0	26.4	27.1	
7	16.2	16.0	14.3	13.3	13.1	11.9	11.3	12.8	13.6	14.5	16.7	20.7	24.1	24.9	23.1	21.7	
8	16.9	16.0	14.6	14.0	12.9	11.8	11.8	12.9	13.7	15.4	18.7	22.2	25.3	26.1	26.1	23.1	
9	15.0	15.3	17.0	15.3	12.7	11.3	10.5	10.0	9.5	11.1	15.5	19.2	23.1	25.1	26.9	25.3	
10	15.2	16.3	21.3	16.2	12.0	12.7	12.8	11.0	10.7	12.0	16.0	19.0	22.1	24.1	24.8	23.5	
11 *	16.7	16.0	15.6	15.0	14.0	12.8	11.0	10.9	11.0	12.9	16.1	19.2	22.8	25.1	25.1	23.6	
12	16.3	16.3	13.8	14.2	12.0	7.5	8.7	9.9	11.1	13.5	17.7	20.5	24.2	26.3	26.4	24.8	
13 **	16.4	15.8	18.0	14.7	14.4	17.9	16.1	17.7	17.1	13.5	17.7	21.6	25.8	23.9	23.1	22.1	
14	16.0	15.9	15.1	14.3	13.0	11.6	9.7	9.8	10.1	12.8	16.0	21.8	25.6	26.6	27.0	25.1	
15	15.7	14.2	12.0	12.1	12.7	12.5	11.7	10.1	9.9	10.6	13.0	17.0	22.3	24.9	25.1	23.8	
16	12.8	13.0	11.8	12.2	12.1	11.8	10.6	9.6	9.5	10.8	14.0	18.8	22.2	24.0	24.1	23.1	
17 *	15.7	15.1	15.0	14.4	14.0	13.1	12.0	10.7	9.9	10.8	14.0	18.0	21.9	25.2	27.0	26.1	
18	15.7	15.7	15.9	15.9	15.0	13.8	11.8	9.9	9.6	11.3	15.8	21.9	26.4	26.1	24.2	21.9	
19	15.0	16.2	17.6	14.1	18.0	19.2	15.3	14.0	11.9	14.0	15.0	16.1	20.0	22.3	21.7	19.7	
20	17.1	16.8	16.6	17.2	16.2	14.0	12.4	11.2	12.0	14.2	15.8	19.0	21.7	23.1	22.3	22.3	
21	13.3	9.7	10.2	15.2	11.2	14.2	13.0	11.8	11.0	13.0	16.7	20.4	22.7	23.1	23.1	20.7	
22 *	15.7	15.1	14.3	13.6	12.3	11.7	11.0	10.1	11.0	13.3	16.9	19.3	19.7	19.9	19.0	18.0	
23 *	15.8	15.0	14.8	14.0	13.6	12.7	12.0	12.2	13.0	15.1	18.7	21.3	23.4	23.3	22.2	20.7	
24 *	16.1	15.5	15.0	14.6	14.0	13.1	13.0	11.7	10.8	12.0	15.8	19.4	23.1	24.6	24.4	22.8	
25	16.0	15.7	15.2	15.0	14.0	12.7	11.8	10.5	10.0	12.2	16.0	20.0	23.1	25.4	25.4	23.3	
26	14.3	15.2	14.7	14.0	13.1	11.3	9.7	8.7	9.8	12.0	15.0	18.7	23.5	27.2	24.9	23.9	
27	13.0	12.0	14.8	13.2	9.9	7.5	7.9	6.3	8.8	12.2	17.0	21.1	23.1	26.1	26.1	24.3	
28	15.2	15.7	15.8	15.2	14.0	13.1	12.0	12.3	12.5	12.5	17.0	24.4	29.0	30.5	30.0	26.1	
29	15.0	15.2	15.2	15.0	14.5	13.7	12.0	10.1	8.9	10.2	15.1	20.6	24.0	26.3	25.3	23.4	
30 **	13.2	7.0	11.0	12.0	11.6	11.9	9.1	6.9	7.8	11.9	17.2	19.9	22.7	24.1	22.1	19.8	
31 **	15.2	13.4	13.3	13.0	12.0	11.2	8.7	8.0	9.7	12.0	15.1	19.1	24.2	30.0	29.1	24.8	
Mean	14.7	14.5	14.6	14.0	13.3	12.3	11.2	10.8	11.0	12.7	16.2	20.0	23.3	24.7	24.4	22.8	
Mean *	16.0	15.3															

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		h m		
20.6	19.4	23.5	18.6	18.0	15.7	15.0	14.7	16.1	3 31	31.1	-11.3†	2 8	42.4	1 **
28.2	23.5	19.1	15.9	15.8	18.9	19.0	18.0	17.0	15 54	32.7†	4.6	9 5	28.1	2 **
20.0	18.6	17.1	16.7	15.8	15.9	17.1	16.9	-	13 29	24.8	6.8	6 20	18.0	3 **
23.6	21.9	20.8	18.6	16.2	14.3	13.1	14.1	16.5	14 49	25.2	8.9	23 53	16.3	4
22.2	20.1	18.6	18.1	17.6	13.7	14.7	11.6	15.6	14 32	24.9	- 1.5	7 53	26.4	5 **
21.4	20.8	19.8	17.3	15.2	13.9	15.1	15.8	15.1	15 8	22.8	7.5	8 7	15.3	6
23.3	21.7	19.0	17.0	17.8	18.2	18.0	17.0	18.1	13 23	25.4	12.0	6 49	13.4	7
21.2	20.3	19.9	17.8	17.2	17.2	18.0	19.0	16.8	15 1	23.8	8.3	7 27	15.5	8
20.2	18.5	18.2	17.8	18.3	17.8	18.0	17.0	17.3	13 56	25.1	9.2	8 3	15.9	9
21.3	19.1	17.7	17.1	17.8	17.9	18.0	18.1	17.2	14 26	23.8	10.6	8 34	13.2	10 *
21.8	19.8	18.0	17.2	17.2	16.2	17.0	17.0	16.9	14 19	25.5	9.1	7 37	16.4	11 *
22.2	20.0	18.1	15.7	16.0	16.9	17.3	17.0	16.8	13 54	25.6	7.1	7 18	18.5	12
22.3	20.0	18.1	17.3	17.6	18.0	18.1	18.0	17.7	14 36	26.8	8.4	7 18	18.4	13 *
22.8	19.8	17.8	17.6	17.2	16.0	17.1	16.2	18.0	13 25	28.5	9.5	7 46	19.0	14
22.1	19.6	18.1	18.0	18.1	18.1	17.8	17.2	17.3	14 30	25.6	8.6	6 56	17.0	15 *
23.6	23.0	20.1	20.2	20.7	21.4	19.0	17.0	18.5	15 12	27.3	7.7	7 20	19.6	16
21.1	19.6	19.6	20.3	19.5	16.6	18.2	18.2	16.4	13 43	23.3	8.6	7 9	14.7	17
21.4	19.7	19.9	19.1	18.1	18.0	18.1	17.0	16.7	16 2	23.1	10.1	5 24	13.0	18
26.0	23.1	21.8	19.3	18.9	15.6	15.1	12.2	16.6	14 57	29.2	4.7	6 44	24.5	19 **
22.6	22.1	18.9	18.3	19.8	19.6	15.4	13.2	15.9	14 15	25.1	6.7	2 24	18.4	20
22.6	21.1	19.0	18.7	17.9	18.0	16.9	15.0	16.5	13 45	25.1	9.0	9 32	16.1	21
23.1	21.7	18.9	11.7	18.9	15.1	15.8	18.0	17.1	14 41	26.6	3.9	19 50	22.7	22
17.8	16.0	15.7	17.0	17.3	17.7	17.8	19.0	16.0	14 2	23.3	6.6	4 31	16.7	23
20.2	18.2	16.7	16.8	18.7	19.2	18.0	18.0	17.1	14 31	25.4	9.2	7 44	16.2	24
19.7	17.7	16.4	17.4	18.0	17.4	17.8	17.8	16.9	14 8	24.5	8.0	9 2	16.5	25
20.7	19.0	18.0	17.8	18.0	17.2	17.0	17.0	16.7	13 51	23.3	7.9	8 8	15.4	26 *
21.9	19.3	18.6	18.2	19.1	18.8	18.2	17.6	17.4	14 30	25.9	8.9	7 40	17.0	27
23.7	21.2	19.2	18.3	18.0	18.1	17.2	16.3	17.8	14 14	28.1	8.1	7 35	20.0	28
22.9	20.1	18.6	17.0	17.6	16.6	15.2	16.0	17.2	14 3	27.1	7.2	7 17	19.9	29
22.3	20.2	18.9	17.7	18.1	18.0	16.9	15.9	17.5	14 50	26.1	7.9	8 11	18.2	30
22.1	20.0	18.9	18.5	18.6	16.7	13.0	14.6	16.8	14 11	25.1	8.0	8 46	17.1	31
22.2	20.2	18.9	17.7	17.9	17.2	16.9	16.5	16.9	-	25.8	7.1	-	18.7	Mean
21.6	19.5	18.0	17.5	17.7	17.5	17.6	17.5	17.2	-	25.0	8.9	-	16.1	Mean *
24.2	21.5	20.8	18.0	17.6	16.0	16.0	14.1	16.3	-	28.5	0.7	-	27.9	Mean **
10° + Tabular Quantities													AUGUST	
										h m		h m		
18.2	17.3	17.4	18.3	18.1	18.0	18.0	17.2	16.8	13 34	24.5	8.9	5 57	15.6	1
21.1	19.8	18.2	17.8	17.2	16.8	16.2	15.9	16.7	13 14	25.9	9.1	5 12	16.8	2
24.1	25.6	22.2	15.1	17.0	18.5	18.7	17.0	16.3	17 9	26.9	7.5	6 13	19.4	3 **
20.3	19.9	19.0	18.0	17.0	17.2	17.0	16.6	15.8	15 5	22.9	- 7.9†	0 23	30.8	4
20.2	19.0	17.0	14.0	15.1	14.8	13.6	12.3	15.7	16 9	21.1	4.9	23 56	16.2	5
24.7	22.1	20.4	16.6	16.0	18.9	14.0	13.5	17.1	15 19	27.8	4.9	0 20	22.9	6 **
19.2	17.8	17.0	17.1	17.3	18.0	17.5	17.0	17.0	13 12	25.1	10.8	6 1	14.3	7
20.1	18.7	17.2	17.9	17.9	17.7	16.8	16.3	17.7	14 19	27.1	9.9	6 8	17.2	8
22.5	20.7	19.2	18.7	18.1	18.1	13.7	15.0	17.0	13 53	28.1	8.9	8 37	19.2	9
21.2	18.7	17.8	17.9	17.9	18.0	17.5	16.2	17.3	14 10	24.8	10.1	8 2	14.7	10
21.4	19.0	18.3	19.1	19.0	18.3	18.1	17.5	17.4	13 57	25.5	10.0	7 15	15.5	11 *
23.1	21.1	20.1	20.9	19.6	18.0	16.1	16.1	17.4	13 56	28.4	6.5	5 24	21.9	12
19.3	18.5	16.8	18.1	17.2	17.0	17.0	16.4	18.2	12 28	26.1	9.7	3 41	16.4	13 **
22.4	21.9	20.0	19.2	16.5	17.1	16.1	14.0	17.4	14 17	27.9	8.6	6 34	19.3	14
21.7	20.0	18.7	18.0	17.0	16.7	17.1	12.8	16.2	14 13	25.3	8.7	7 37	16.6	15
21.1	19.9	19.0	18.0	16.8	16.7	16.4	16.0	16.0	14 14	24.7	8.9	8 5	15.8	16
23.2	20.9	19.5	19.0	18.2	17.7	16.6	16.4	17.3	15 17	27.3	9.7	8 28	17.6	17 *
19.7	17.3	15.1	16.1	16.5	17.0	16.7	16.1	16.9	12 32	27.5	9.0	8 20	18.5	18
17.7	15.7	15.0	15.8	15.8	16.3	17.0	17.3	16.7	13 5	22.8	10.9	8 56	11.9	19
21.1	18.3	17.0	16.0	15.2	15.2	14.8	15.2	16.9	13 39	24.1	10.6	22 9	13.5	20
18.8	17.8	17.4	17.2	17.6	17.9	17.1	16.1	16.2	14 9	23.3	8.5	1 55	14.8	21
17.1	17.4	17.8	17.7	18.0	17.9	17.2	16.8	15.9	11 53	20.8	9.7	7 37	11.1	22 *
19.0	18.0	17.2	17.6	18.0	17.8	17.0	16.7	17.0	12 45	23.9	11.5	6 27	12.4	23 *
20.0	18.0	17.0	17.1	17.0	17.0	16.6	16.2	16.9	14 19	25.1	10.6	8 20	14.5	24 *
22.1	19.4	17.4	17.2	17.0	17.1	14.7	13.7	16.9	14 12	26.1	9.5	8 38	16.6	25
22.2	20.0	18.7	16.8	18.1	16.4	16.9	16.8	16.7	13 40	28.1	8.1	7 45	20.0	26
20.4	17.0	17.8	17.4	16.9	12.9	15.5	14.7	15.7	15 0	27.1	2.0	7 36	25.1	27
21.4	19.2	18.0	15.8	16.0	16.6	15.1	12.6	17.9	13 37	30.8	10.8	6 47	20.0	28
20.9	18.8	17.0	15.9	15.8	12.0	12.8	15.7	16.4	13 36	27.3	8.2	8 24	19.1	29
19.0	17.9	18.0	16.8	17.0	16.4	15.8	15.9	15.2	13 17	24.5	3.1	1 43	21.4	30 **
22.3	17.3	11.3	13.7	13.3	14.1	13.4	9.2	15.6	13 20	32.0†	6.6	23 48	25.4	31 **
20.8	19.1	17.8	17.3	17.0	16.8	16.2	15.5	16.7	-	25.9	8.0	-	17.9	Mean
20.1	18.7	18.0	18.1	18.0	17.7	17.1	16.7	16.9	-	24.5	10.3	-	14.2	Mean *
21.9	20.3	17.7	16.1	16.1	17.0	15.8	14.4	16.5	-	27.5	6.4	-	21.1	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
10° + Tabular Quantities																	
SEPTEMBER																	
1	12.0	18.1	23.3	19.9	13.6	11.7	12.0	13.3	13.0	13.3	16.0	20.2	21.9	23.3	20.9	19.8	
2	15.5	14.0	16.3	17.6	24.9	26.0	18.8	17.2	15.2	10.0	13.7	19.6	26.3	30.9	33.0	32.5	
3 **	-5.9	-3.1	6.9	11.0	3.7	6.2	2.4	10.0	13.0	13.3	21.7	21.1	28.8	33.9	39.6	40.6	
4 **	16.2	14.7	12.8	13.1	16.0	12.7	11.8	11.6	12.0	13.0	16.6	20.6	23.4	27.3	34.4	36.6	
5	-8.7	-4.5	-11.3	-12.7	-11.8	-2.2	-1.2	-0.2	5.4	9.1	13.0	16.2	17.7	18.1	19.2	18.0	
6	13.2	13.1	14.1	13.1	9.2	8.6	8.1	6.7	7.0	10.3	15.3	21.6	26.2	27.1	25.2	28.1	
7	14.8	14.8	14.4	13.4	12.3	12.0	10.7	10.2	10.9	14.0	17.6	21.1	23.2	23.1	22.4	19.7	
8 *	15.9	15.6	15.0	14.0	12.8	11.2	9.3	8.7	9.0	12.8	18.3	23.9	26.1	25.2	23.1	19.2	
9	15.2	15.1	16.3	13.8	11.3	9.5	9.5	12.3	14.0	16.6	21.4	26.1	28.1	27.8	26.1	24.1	
10	16.0	15.6	15.0	14.3	13.5	12.6	10.6	9.3	10.6	13.3	17.2	20.6	23.2	23.9	23.0	20.7	
11 *	16.0	15.5	14.3	13.4	12.7	12.0	9.8	8.5	9.7	11.7	15.3	19.2	22.4	22.4	21.9	20.7	
12	14.1	14.4	13.6	13.8	13.0	11.8	10.8	9.6	9.8	12.3	16.7	20.8	23.9	25.4	24.2	23.1	
13 **	15.9	20.4	8.9	6.8	1.9	12.1	19.6	13.2	-0.7	2.9	15.8	19.9	18.7	21.3	18.0	15.0	
14	14.0	13.0	12.3	13.1	12.8	11.0	6.9	4.0	7.7	14.1	15.4	21.1	24.6	27.4	24.8	21.5	
15	9.9	10.8	12.1	10.8	14.0	12.2	9.9	8.2	7.9	9.6	13.9	17.6	21.3	22.7	22.1	20.0	
16	6.6	11.0	15.4	11.7	11.0	12.8	12.1	11.3	9.9	10.6	13.0	17.2	22.1	24.7	25.1	23.4	
17	14.2	15.3	14.9	14.3	15.0	14.0	13.0	12.0	12.1	13.0	17.0	21.9	24.8	25.5	24.7	22.6	
18	15.3	16.8	15.4	14.8	13.4	13.3	12.6	10.1	9.9	10.7	12.3	15.4	20.4	20.9	22.1	21.9	
19 *	15.2	15.1	14.8	14.2	13.7	13.3	13.0	12.6	11.1	12.1	14.0	18.0	21.2	22.1	21.4	21.3	
20 *	15.3	14.3	14.6	14.0	14.0	13.4	12.3	11.1	10.6	11.4	14.2	18.2	22.3	23.8	23.9	22.2	
21	19.2	16.1	15.0	14.8	14.2	13.8	12.2	10.3	9.3	11.3	18.0	26.9	26.8	28.4	25.4	27.9	
22	11.1	12.1	11.8	14.6	11.3	14.2	14.9	12.4	8.9	11.6	14.7	19.0	23.3	25.9	24.3	28.4	
23 **	15.4	5.6	5.8	-6.5	10.0	-0.1	18.3	15.6	10.2	14.0	16.3	22.9	24.2	26.8	23.2	22.9	
24	12.7	20.5	17.1	13.2	12.2	15.5	12.7	10.2	8.9	8.4	13.0	19.3	22.8	24.0	22.0	20.4	
25	13.9	18.0	15.0	14.8	15.7	15.3	14.1	11.2	12.8	13.2	16.0	21.1	24.9	24.4	22.8	21.3	
26	14.2	14.5	14.8	14.8	14.3	14.2	13.0	11.0	9.2	10.4	14.2	19.2	23.5	26.3	27.2	26.1	
27 *	15.2	15.3	15.3	15.0	14.9	14.2	13.0	10.2	8.0	7.8	10.4	14.6	18.0	21.3	23.3	22.1	
28	15.8	14.9	14.2	13.7	12.9	12.2	11.4	10.2	8.9	9.9	13.6	18.2	22.4	24.3	24.3	22.5	
29 **	15.6	13.3	12.1	12.2	11.9	10.4	14.2	14.0	9.9	8.1	11.0	16.0	22.2	31.0	29.0	32.5	
30	13.4	12.4	17.4	17.6	12.9	11.8	10.0	8.0	8.3	10.2	12.7	14.6	16.4	18.7	21.5	18.2	
Mean	12.9	13.4	13.3	12.3	11.9	11.9	11.5	10.4	9.8	11.3	15.3	19.7	23.0	24.9	24.6	23.8	
Mean *	15.5	15.2	14.8	14.1	13.6	12.8	11.5	10.2	9.7	11.2	14.4	18.8	22.0	23.0	22.7	21.1	
Mean **	11.4	10.2	9.3	7.3	8.7	8.3	13.3	12.9	8.9	10.3	16.3	20.1	23.5	28.1	28.8	29.5	
OCTOBER																	
10° + Tabular Quantities																	
1 **	12.9	12.5	16.8	14.0	13.8	14.5	13.7	12.0	11.8	12.6	13.0	15.0	17.8	22.2	20.7	20.3	
2	13.4	12.0	10.2	11.0	12.5	12.7	13.1	13.0	13.0	12.8	14.3	16.0	17.6	19.6	20.2	20.8	
3	10.7	13.8	13.2	13.3	13.3	13.2	13.3	12.3	11.4	11.6	14.0	18.1	21.9	20.7	23.9	26.1	
4	9.9	11.0	12.9	12.3	14.2	13.2	12.8	11.7	9.7	10.7	13.4	16.2	19.3	22.1	22.1	20.7	
5	14.8	11.6	13.0	13.0	12.5	13.8	13.0	12.0	10.7	12.3	16.0	20.2	22.1	22.8	21.9	21.3	
6 *	12.3	13.7	14.0	13.8	13.7	13.6	13.2	12.4	11.2	11.5	13.8	16.7	19.1	21.1	21.4	20.0	
7 *	15.5	15.2	14.9	14.2	14.0	13.3	14.0	13.1	10.6	9.9	11.4	15.8	20.2	22.4	23.9	22.1	
8 *	14.9	14.2	14.2	14.2	14.1	13.7	13.2	12.2	10.1	9.9	12.6	17.3	20.8	22.7	22.8	21.4	
9	15.8	14.9	13.7	12.2	11.8	11.7	12.2	12.2	11.6	11.2	13.0	16.0	20.5	22.9	23.6	21.1	
10	10.7	12.3	14.8	14.9	12.7	16.7	15.7	15.1	14.6	14.3	15.2	19.0	24.1	26.0	15.8	23.1	
11 **	14.0	13.4	13.5	13.2	14.0	14.7	15.2	14.6	11.3	9.9	15.0	19.7	24.1	25.2	23.1	20.5	
12	15.4	15.4	16.3	15.6	15.4	14.7	15.7	14.0	13.4	13.9	16.3	18.1	20.9	22.1	23.3	20.6	
13 **	10.7	6.1	8.5	5.6	9.0	14.5	12.4	12.0	9.9	9.2	11.3	14.3	18.4	22.1	23.0	21.2	
14 **	7.9	8.7	11.3	12.9	13.0	18.6	21.9	14.3	9.2	11.8	14.8	16.8	19.6	24.3	23.2	20.6	
15	10.1	10.1	12.7	13.4	14.0	14.1	13.1	11.5	9.9	9.9	12.7	16.9	22.1	24.4	26.8	25.4	
16 *	13.0	14.2	14.2	14.2	14.2	14.0	13.2	12.0	10.4	10.7	13.0	17.0	19.4	21.8	22.1	21.2	
17	14.3	13.9	14.0	14.2	14.0	14.2	14.0	12.7	10.5	10.1	13.4	18.2	18.0	20.3	22.9	21.3	
18 *	14.3	13.3	13.3	13.5	13.2	13.1	13.0	11.9	9.3	8.7	11.7	14.4	17.1	18.7	20.0	19.8	
19	15.2	14.6	14.7	14.2	14.0	13.7	12.2	11.8	9.4	10.1	12.2	15.3	19.7	21.9	21.9	20.0	
20	14.8	14.6	14.0	13.5	12.0	12.2	12.7	11.0	9.6	9.9	13.6	16.8	21.8	22.9	22.4	21.5	
21 **	9.9	12.7	14.0	14.7	13.2	13.0	13.1	12.7	11.7	11.4	13.2	17.2	20.5	23.1	21.9	24.1	
22	16.7	13.0	12.9	13.7	13.2	12.7	12.0	11.2	10.1	11.3	15.0	18.2	20.4	20.9	20.9	19.4	
23	10.5	11.4	13.1	14.1	14.0	13.6	13.2	11.8	9.6	9.6	13.7	17.3	20.3	21.8	21.2	19.8	
24	15.0	15.7	14.4	15.0	14.6	13.9	13.2	11.8	10.3	10.6	14.2	19.2	21.8	22.0	22.0	19.8	
25	15.0	14.0	13.3	14.2	14.2	14.1	13.4	12.0	9.5	9.2	13.3	17.0	21.1	22.1	22.5	20.8	
26	8.9	11.3	12.0	13.1	13.0	13.7	13.8	13.7	12.0	11.5	14.1	16.4	20.0	22.6	22.3	21.1	
27	13.7	13.1	14.2	14.9	14.2	14.2	14.1	14.0	12.0	11.2	14.4	20.1	23.9	23.3	23.4	23.8	
28	13.3	10.2	9.9	12.9	12.7	12.4	12.3	14.2	13.0	12.0	15.0	17.9	20.9	21.8	21.2	19.8	
29	14.2	11.5	11.4	13.2	14.8	14.2	14.5	12.2	10.8	11.0	13.2	15.0	20.6	20.4	19.7	18.2	
30	13.0	13.1	12.1	13.0	14.0	14.0	12.8	15.0	15.1	11.2	13.0	16.4	18.7	20.6	20.6	19.0	
31	15.0	14.7	14.3	14.4	14.6	14.3	14.2	13.6	11.8	11.0	13.6	19.1	21.1	22.0	20.1	19.9	
Mean	13.1	12.8	13.3	13.4	13.5	13.7	13.7	12.7	11.1	11.0	13.7	17.1	20.4	22.2	22.0	21.1	
Mean *	14.0	14.1	14.1	14.0	13.8	13.5	13.3	12.3	10.3	10.1	12.5	16.2	19.3	21.3	22.0	20.9	
Mean **	11.1	10.7	12.8	12.1	12.6	15.1	15.3	13.1	10.8	11.0	13.5	16.6	20.1	23.4	22.4	21.3	

* 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													
SEPTEMBER													
										h m		h m	
18.0	17.1	17.0	16.7	16.0	17.0	16.9	16.4	17.0	2 8	26.7	8.9	6 21	17.8
27.2	28.1	24.7	27.8	24.3	17.2	9.6	9.3	20.8	15 55	37.3	-14.6	23 56	51.9
21.4	26.4	18.6	20.0	20.0	21.6	19.2	18.0	17.0	15 16	60.7†	-13.1	0 0	73.8
29.1	29.1	20.0	23.0	19.4	18.0	4.1	-0.2	18.1	17 16	60.7†	-24.4	17 46	85.1
17.7	16.8	14.0	12.9	15.6	16.8	13.0	13.0	7.7	21 22	22.2	-30.4†	4 44	52.6
24.5	18.1	16.0	13.8	15.3	15.8	15.3	14.1	15.8	15 51	31.7	5.6	7 26	26.1
18.2	18.0	18.0	17.8	16.6	16.0	16.0	15.8	16.3	12 17	24.1	7.9	8 16	16.2
16.8	16.1	17.1	17.2	17.0	17.0	16.4	14.3	16.3	12 34	26.1	7.4	7 30	18.7
19.6	16.2	16.2	15.3	15.0	16.1	16.4	16.2	17.4	12 46	29.0	8.0	5 46	21.0
18.8	16.0	16.3	17.4	17.1	15.1	15.8	16.0	16.3	13 9	24.2	8.7	7 38	15.5
18.7	16.7	16.0	15.7	14.9	15.6	15.3	14.6	15.5	12 32	23.2	8.0	7 13	15.2
20.0	17.9	16.8	16.1	16.4	16.2	15.0	15.3	16.3	14 1	27.1	8.7	7 49	18.4
12.0	10.8	14.6	15.0	13.9	8.6	14.3	14.2	13.0	6 49	32.2	-13.9	8 34	46.1
19.8	17.8	17.0	16.1	15.2	14.0	14.0	14.0	15.5	13 30	32.8	1.8	7 28	31.0
18.1	16.0	12.0	12.7	13.0	11.4	11.0	8.9	13.6	13 9	24.0	6.8	21 57	17.2
20.0	17.1	12.2	14.2	16.0	16.0	15.3	13.2	15.1	14 20	25.3	4.9	0 34	20.4
19.0	17.7	18.0	18.8	18.6	17.9	17.0	16.3	17.4	13 40	36.3	11.7	8 0	24.6
20.8	19.1	18.2	18.7	15.3	17.2	17.2	16.1	16.1	14 48	22.1	9.2	8 24	12.9
20.0	18.6	17.4	17.0	17.0	16.9	16.7	16.4	16.4	13 6	22.5	10.5	8 58	12.0
21.2	19.1	18.2	16.9	17.6	18.0	17.0	16.0	16.7	14 3	24.4	9.9	9 12	14.5
29.2	20.4	20.5	17.0	15.8	12.6	11.8	12.2	17.9	13 40	33.5	3.0	21 27	30.5
21.9	17.6	19.0	15.8	14.0	16.8	17.9	14.6	16.5	16 8	54.2	-6.0	23 43	60.2
20.2	4.3	10.2	14.2	14.8	10.5	10.0	13.5	13.4	20 25	32.2	-15.1	3 23	47.3
18.2	15.9	14.3	10.0	12.8	14.6	14.3	14.7	15.3	13 1	26.3	5.9	9 23	20.4
19.1	17.0	16.3	15.2	14.8	14.6	14.2	14.8	16.7	12 51	26.1	10.0	7 46	16.1
22.4	18.0	16.3	15.7	15.2	15.4	15.2	15.0	16.7	14 24	27.8	8.8	8 8	19.0
19.6	19.0	18.0	16.9	16.0	15.7	15.8	16.0	15.7	14 30	23.7	7.2	9 0	16.5
19.8	18.1	18.2	16.8	17.0	16.8	16.0	15.4	16.1	13 41	25.1	8.6	8 56	16.5
32.4	25.1	9.9	11.6	13.9	9.9	3.7	0.4	15.4	17 25	55.6	-11.7	23 2	67.3
15.0	13.1	16.1	15.8	12.3	9.7	5.2	11.4	13.4	2 54	31.1	-0.3	22 4	31.4
20.6	18.0	16.6	16.4	16.0	15.3	14.0	13.5	15.8	-	31.6	1.1	-	30.5
19.3	17.9	17.3	16.7	16.5	16.6	16.2	15.5	16.1	-	24.0	8.6	-	15.4
23.0	19.1	14.7	16.8	16.4	13.7	10.3	9.2	15.4	-	48.3	-15.6	-	63.9
10° + Tabular Quantities													
OCTOBER													
										h m		h m	
19.0	18.7	18.9	19.0	15.3	18.0	15.3	15.3	16.0	13 34	24.6	9.2	7 38	15.4
19.0	18.8	18.1	17.7	17.2	17.0	15.8	14.3	15.4	15 29	21.9	9.3	3 10	12.6
21.2	20.1	14.0	12.4	11.9	13.6	13.0	10.1	15.3	15 31	27.8	8.6	18 31	19.2
19.2	17.0	15.2	14.2	12.9	15.0	15.8	15.2	14.9	13 41	23.0	9.1	8 7	13.9
19.8	18.7	17.7	15.6	16.0	16.0	16.3	15.5	16.1	13 49	23.0	9.9	1 18	13.1
18.0	17.2	17.0	16.7	16.3	16.2	16.0	15.9	15.6	14 17	21.8	10.8	8 51	11.0
20.6	19.0	18.0	17.5	17.6	17.0	16.3	15.3	16.3	14 31	25.1	8.9	9 0	16.2
19.2	18.3	17.8	17.3	17.0	16.8	16.2	16.0	16.1	14 0	23.1	8.9	8 35	14.2
19.0	18.7	17.0	16.3	15.7	14.8	14.4	12.0	15.5	14 13	25.3	10.2	23 53	15.1
19.6	17.0	16.5	14.0	7.7	11.2	13.6	14.4	15.8	13 47	27.1	5.8	20 20	21.3
16.6	15.4	13.8	15.0	15.2	13.8	12.0	13.7	15.7	13 11	27.1	9.0	9 50	18.1
18.4	18.6	18.1	17.8	15.6	14.0	8.9	11.0	16.4	14 48	24.1	6.8	22 22	17.3
20.2	18.8	18.9	17.8	15.0	9.5	11.0	8.9	13.7	13 59	24.3	3.1	1 35	21.2
23.1	19.0	16.2	16.8	13.6	11.6	15.4	12.8	15.7	13 29	28.0†	5.7	23 8	22.3
22.0	19.3	18.2	16.6	16.5	14.8	12.8	11.0	15.8	14 12	27.7	8.1	1 5	19.6
20.0	19.0	19.0	18.3	17.2	16.3	16.0	15.2	16.1	14 53	22.9	9.9	9 9	13.0
20.0	18.8	18.7	17.8	17.2	16.7	15.9	15.0	16.1	14 27	24.4	8.9	9 14	15.5
18.8	18.1	18.5	18.6	17.4	16.2	14.6	15.3	15.1	14 20	20.3	7.7	9 21	12.6
17.6	18.0	18.1	18.1	17.8	15.7	14.2	15.4	15.7	14 19	23.1	7.7	9 11	15.4
20.0	20.8	23.2	21.1	19.0	16.6	11.4	9.0	16.0	18 25	23.7	7.8	23 41	15.9
22.1	20.6	15.0	18.6	19.6	11.7	8.2	7.2	15.6	15 25	27.3	2.7†	23 11	24.6
18.2	16.8	17.2	16.7	16.1	14.6	10.2	13.3	15.2	13 38	22.1	6.9	8 44	15.2
18.2	17.0	16.4	15.0	8.9	6.9	12.0	13.2	14.3	13 21	22.1	5.6	21 7	16.5
17.7	16.8	16.9	11.9	15.0	15.2	14.8	14.5	15.7	12 58	23.1	7.4	19 25	15.7
19.0	18.7	17.6	15.3	16.0	16.0	14.6	11.0	15.6	14 20	23.3	7.5	8 36	15.8
19.0	18.0	18.4	17.5	16.9	14.0	13.3	14.2	15.5	14 13	23.2	7.2	0 23	16.0
20.0	19.7	19.2	18.3	18.1	15.7	14.0	14.1	16.8	12 40	27.3	10.2	9 4	17.1
18.7	19.2	17.8	18.0	17.0	16.3	15.3	14.6	15.7	13 29	21.6	7.6	2 16	14.0
18.7	20.0	20.0	18.4	17.2	13.4	12.0	12.0	15.3	12 32	25.3	9.1	9 9	16.2
16.9	17.3	16.8	12.3	14.0	14.5	14.4	14.8	15.1	14 19	22.1	9.8	8 48	12.3
19.0	18.2	18.0	17.6	16.7	15.3	15.0	14.9	16.2	13 14	23.1	10.0	9 1	13.1
19.3	18.4	17.7	16.7	15.7	14.7	13.8	13.4	15.6	-	24.2	8.0	-	16.1
19.3	18.3	18.1	17.7	17.1	16.5	15.8	15.5	15.8	-	22.6	9.2	-	13.4
20.2	18.5	17.4	17.4	15.7	12.9	12.4	11.6	15.3	-	26.3	5.9	-	20.3

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

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
10° + Tabular Quantities																	
NOVEMBER																	
1	15.0	14.8	13.8	13.8	14.2	11.0	13.0	12.6	11.9	11.9	13.4	17.0	19.0	21.1	21.1	19.2	
2	14.8	13.7	13.7	13.2	13.6	13.4	14.0	13.7	12.3	13.1	14.3	17.2	19.6	21.1	20.7	18.7	
3	10.3	10.2	11.2	13.3	13.2	12.6	12.1	13.0	13.8	15.0	19.0	20.0	22.2	22.3	21.2	19.8	
4 *	14.2	13.4	13.2	14.0	14.0	13.8	13.0	12.4	11.4	11.6	13.8	17.2	19.2	19.6	19.0	18.2	
5 *	14.9	14.4	14.2	14.0	14.0	14.4	14.0	13.0	11.4	11.3	13.6	16.8	18.8	19.0	19.0	18.0	
6	15.0	15.0	14.8	14.7	14.4	14.1	13.5	12.7	11.0	11.3	13.7	17.1	19.6	19.9	20.0	17.4	
7	2.9	12.0	8.2	13.7	14.4	14.0	14.5	13.2	11.4	10.4	13.0	16.1	17.8	18.8	17.7	17.0	
8	14.8	14.9	15.0	15.1	14.8	14.8	15.0	14.0	13.2	12.1	15.0	18.1	20.0	20.1	22.5	20.8	
9 **	8.2	7.6	9.5	14.0	11.8	15.6	14.0	12.2	10.1	10.6	13.0	15.8	20.3	20.5	20.0	16.5	
10	3.9	10.6	13.0	14.3	15.3	15.0	13.8	13.6	12.3	12.1	13.8	17.0	19.8	21.1	21.1	18.3	
11	10.0	12.5	13.9	16.2	15.3	15.4	14.0	13.0	12.0	12.7	15.2	18.1	20.0	17.9	20.6	20.9	
12	10.8	11.7	13.0	14.7	14.7	14.8	15.1	13.6	12.9	12.5	16.2	18.2	20.5	21.1	21.7	20.8	
13	9.1	13.1	14.1	14.3	14.8	14.1	14.0	13.8	13.0	13.2	14.3	17.9	18.8	20.3	20.3	20.0	
14	15.0	14.9	15.0	13.4	12.2	14.0	13.8	13.0	12.2	12.7	15.6	17.3	21.1	19.4	19.7	20.2	
15	11.0	11.8	13.1	13.4	13.2	12.7	13.0	13.0	12.8	13.5	13.4	16.1	18.4	19.7	19.0	19.0	
16	13.3	12.3	13.3	13.2	14.1	13.8	14.0	13.7	12.3	11.3	13.2	16.2	18.0	20.0	20.0	18.4	
17 *	13.6	14.0	13.8	13.0	13.4	13.4	13.2	13.2	12.3	12.0	12.7	15.0	17.4	19.3	19.7	18.8	
18	7.1	4.4	6.2	8.1	12.2	13.8	15.4	17.4	14.4	14.3	16.0	20.2	22.2	21.6	22.2	21.7	
19	13.0	11.3	11.7	11.3	10.6	10.7	11.0	12.2	12.0	12.2	14.3	16.0	17.2	18.6	18.1	17.9	
20	14.6	14.0	14.1	13.1	14.0	13.4	13.0	13.0	13.0	13.0	14.6	17.6	20.4	19.8	20.6	19.8	
21 *	15.2	15.2	15.7	15.7	15.2	14.7	14.2	13.5	13.0	12.2	13.3	15.8	17.8	18.6	18.3	18.5	
22 *	12.0	14.1	14.7	14.8	14.1	14.1	13.1	13.0	12.9	12.8	14.2	16.7	17.3	18.2	19.0	19.3	
23	14.6	15.0	15.1	15.0	15.5	15.0	13.6	13.7	13.3	13.7	15.0	16.8	17.9	19.2	18.2	18.8	
24	12.7	11.7	14.0	13.5	13.7	14.0	13.3	13.2	12.9	13.2	15.0	18.0	20.2	21.1	21.3	21.1	
25 **	13.2	12.8	12.7	13.1	14.8	12.3	13.4	17.2	19.2	15.6	15.0	16.6	17.0	18.3	19.2	20.6	
26 **	5.5	6.5	6.7	11.0	12.4	13.2	13.1	13.1	11.8	13.1	15.6	17.2	17.3	19.6	23.5	20.1	
27 **	2.2	3.8	6.9	5.5	9.1	8.9	9.9	13.0	15.2	14.0	14.6	17.2	14.6	16.7	18.8	18.6	
28 **	9.6	9.2	8.6	8.1	13.1	13.0	12.0	13.8	13.7	16.9	15.1	16.8	21.3	19.8	21.5	18.4	
29	12.1	9.6	11.4	13.9	14.2	14.2	13.8	13.2	13.0	14.0	17.2	18.4	19.0	18.3	19.0	18.4	
30	14.8	13.8	11.4	12.2	13.0	12.2	12.1	12.0	12.4	13.8	16.0	17.6	18.6	18.0	17.9	17.2	
Mean	11.4	11.9	12.4	13.1	13.6	13.5	13.4	13.4	12.8	12.9	14.6	17.2	19.0	19.6	20.0	19.1	
Mean *	14.0	14.2	14.3	14.3	14.1	13.9	13.5	13.0	12.2	12.0	13.5	16.3	18.1	18.9	19.0	18.6	
Mean **	7.7	8.0	8.9	10.3	12.2	12.6	12.5	13.9	14.0	14.0	14.7	16.7	18.1	19.0	20.6	18.8	
10° + Tabular Quantities																	
DECEMBER																	
1 **	12.7	9.7	1.9	5.9	9.1	12.0	12.0	13.0	12.8	13.8	15.0	17.0	19.0	19.0	18.2	18.0	
2	13.0	12.8	11.0	10.8	13.4	13.2	13.1	14.7	13.0	12.7	16.0	18.6	19.7	20.3	19.2	20.2	
3	13.1	13.2	14.2	15.0	14.0	13.2	14.3	16.0	13.0	13.0	13.0	15.1	19.4	19.4	19.6	18.2	
4	11.2	13.1	13.6	14.7	14.7	14.0	14.7	14.7	13.0	13.5	14.5	16.8	18.3	18.9	18.2	18.2	
5	9.2	11.0	8.9	11.0	14.6	14.2	14.7	16.4	14.2	12.3	12.6	15.5	18.0	20.5	18.0	17.0	
6 **	7.9	8.9	12.9	14.0	17.0	17.0	14.7	14.6	12.3	11.9	14.6	17.3	18.6	22.1	19.5	19.5	
7	11.1	13.2	14.0	15.0	14.3	14.1	14.3	16.0	12.0	13.3	15.6	17.0	18.8	20.3	19.8	18.8	
8	9.7	12.1	14.0	14.6	14.4	14.6	13.4	13.0	12.8	10.4	12.2	15.0	17.2	17.5	17.1	17.0	
9	9.9	10.3	13.0	13.7	14.2	14.7	14.0	14.0	13.8	12.8	13.1	17.0	17.3	21.3	21.1	22.1	
10	13.2	14.0	13.7	13.7	13.8	14.0	14.0	14.0	14.4	12.7	15.6	17.0	17.8	17.8	18.8	17.9	
11 **	9.1	10.6	8.2	10.7	18.6	18.2	14.3	13.1	14.0	12.0	11.8	15.7	16.9	20.0	21.1	20.0	
12 **	8.4	4.9	8.0	10.0	12.3	13.4	13.2	13.4	12.7	10.6	11.8	15.0	14.1	16.6	18.2	17.8	
13	11.0	11.4	13.0	13.8	13.1	14.0	13.6	13.4	13.2	13.4	15.0	16.0	17.8	17.2	19.8	17.0	
14	13.3	13.0	12.6	11.6	13.6	12.4	12.2	13.2	13.2	13.0	13.5	15.1	17.2	18.6	18.2	17.2	
15	12.0	13.0	13.4	13.0	12.2	13.9	13.4	14.8	13.8	12.6	13.2	17.0	16.7	19.4	21.1	17.8	
16	14.1	13.1	13.0	12.6	13.1	13.1	13.0	13.2	13.0	12.9	14.3	15.8	17.7	18.3	18.7	17.3	
17	11.9	12.2	6.3	7.5	9.7	12.0	11.4	14.2	12.7	12.2	13.6	16.0	16.9	17.3	18.1	17.1	
18	10.6	14.0	14.0	14.0	12.4	13.0	12.6	12.9	12.6	11.6	12.8	15.1	16.7	17.7	18.6	17.0	
19	10.8	12.8	13.0	13.3	13.6	12.7	13.6	13.9	14.0	12.6	13.2	15.0	16.6	18.2	20.2	19.8	
20	9.0	11.3	11.2	9.3	9.2	13.3	11.4	11.6	11.7	11.2	12.9	15.2	16.7	18.1	18.2	17.8	
21	12.0	12.8	11.6	11.3	9.7	9.8	8.7	9.9	11.2	11.9	13.2	15.8	17.1	18.1	18.3	17.6	
22 *	11.7	12.0	11.3	11.8	13.9	14.0	13.2	12.4	12.0	10.1	10.7	13.6	15.9	18.0	18.0	17.0	
23 *	13.3	13.8	13.2	13.4	14.0	14.7	13.8	12.9	12.3	10.8	12.0	14.9	18.0	18.2	18.3	17.4	
24	13.6	14.1	14.0	14.0	14.0	13.7	13.5	12.9	12.0	11.0	12.6	15.8	17.2	17.8	18.3	17.9	
25	15.2	13.6	14.1	12.9	14.0	12.3	11.9	12.3	12.0	10.8	12.7	15.9	18.1	19.5	19.0	18.7	
26	11.8	13.3	13.7	11.5	14.1	10.7	12.2	13.0	12.7	12.0	13.0	15.6	19.0	19.4	20.0	19.2	
27 *	12.4	12.4	12.3	13.3	14.4	14.2	13.7	13.2	12.3	11.2	11.6	13.8	14.7	17.8	17.8	17.3	
28 *	13.0	12.8	12.9	12.9	12.7	12.3	12.8	12.6	12.6	11.2	12.3	14.2	15.9	17.3	18.0	17.6	
29 *	13.2	13.7	13.9	13.7	14.0	14.0	13.3	13.1	12.6	11.3	12.1	14.6	15.8	17.2	17.9	17.7	
30	11.9	9.9	7.8	12.0	13.0	11.6	11.6	12.1	11.2	12.0	13.0	16.0	16.7	20.6	19.7	18.9	
31 **	12.7	10.4	10.1	13.7	12.3	15.8	15.3	20.4	15.3	13.8	14.3	16.2	18.0	20.6	19.6	18.7	
Mean	11.6	12.0	11.8	12.4	13.3	13.6	13.2	13.7	12.9	12.1	13.3	15.8	16.3	18.8	18.9	18.2	
Mean *	12.7	12.9	12.7	13.0	13.8	13.8	13.4	12.8	12.4	10.9	11.7	14.2	16.1	17.7	18.0	17.4	

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		
18.4	19.0	18.8	19.0	18.0	16.4	15.7	14.0	15.9	14 15	22.1	9.9	5 28	12.2
18.0	17.6	17.5	17.1	16.2	16.7	11.9	8.3	15.4	14 14	22.4	7.0	23 0	15.4
19.8	20.0	18.8	16.1	15.8	15.2	15.0	14.0	16.0	13 31	23.8	7.6	1 52	16.2
17.8	18.0	17.7	17.0	17.5	15.4	15.0	15.0	15.5	12 44	20.0	11.1	9 0	8.9
18.0	17.7	17.8	17.8	16.9	16.0	15.0	15.0	15.6	13 50	19.7	10.8	9 19	8.9
17.0	17.8	20.1	20.4	12.3	11.0	6.7	5.8	14.8	19 1	25.3	- 0.1	22 37	25.4
17.0	15.3	16.3	15.0	15.0	14.4	14.0	14.8	14.0	1 19	26.1	- 3.1	1 53	29.2
18.0	17.0	15.0	15.8	11.7	9.9	10.8	5.9	15.2	14 44	24.0	0.6	23 59	23.4
17.9	18.3	15.0	11.5	12.5	10.1	6.6	6.7	13.3	12 17	23.3	- 0.8	22 46	24.1
18.4	18.1	18.0	16.0	12.8	12.2	10.8	8.9	14.6	14 50	22.1	- 0.4	0 12	22.5
19.1	18.0	16.3	15.0	14.0	13.0	10.5	9.1	15.1	12 41	23.4	7.3	22 4	16.1
15.9	17.5	17.0	15.7	14.8	14.5	10.7	8.1	15.3	13 34	23.1	6.8	23 38	16.3
19.6	18.2	18.0	16.2	15.2	14.2	13.0	13.2	15.5	13 47	22.2	8.1	0 26	14.1
20.8	22.0	20.0	16.7	15.0	15.2	15.0	11.1	16.1	17 43	24.8	9.5	23 31	15.3
18.0	18.2	19.3	18.0	16.6	12.6	13.0	13.6	15.1	12 28	22.9	8.6	0 3	14.3
17.9	18.0	14.7	14.9	15.7	15.2	15.0	14.0	15.1	13 50	22.1	10.5	9 23	11.6
18.2	17.0	17.0	16.9	16.2	15.9	15.4	11.8	15.1	14 7	20.3	8.2	23 43	12.1
21.1	19.6	18.4	16.8	15.9	14.6	14.0	13.1	15.4	12 22	25.3	2.8	1 28	22.5
17.0	16.0	16.0	16.0	15.4	13.0	14.0	14.8	14.2	13 15	21.1	8.8	5 7	12.3
17.4	17.0	17.0	15.4	12.6	11.2	13.6	14.8	15.3	13 58	22.1	9.8	20 46	12.3
17.7	16.3	16.0	15.7	15.6	15.2	12.0	11.3	15.3	13 41	19.0	9.7	22 50	9.3
17.8	18.2	18.6	16.9	15.2	14.9	14.2	14.1	15.4	15 2	20.4	10.2	0 5	10.2
18.7	19.2	17.8	16.8	16.1	15.1	14.2	13.8	15.9	13 14	21.8	11.8	23 58	10.0
21.1	21.1	19.8	18.7	17.0	13.8	13.1	13.7	16.1	13 56	23.9	10.6	1 7	13.3
20.0	22.0	21.1	16.3	13.0	11.7	11.7	12.6	15.8	8 12	23.6	8.2	22 0	15.4
25.1	24.2	19.7	16.6	1.7	- 4.8	9.3	7.2	13.3	17 27	39.6†	-13.4†	21 40	53.0
18.8	19.5	20.8	18.2	17.2	13.0	9.1	8.9	13.1	18 20	22.6	- 1.9	0 24	24.5
18.0	19.2	16.2	18.0	17.0	11.3	11.0	12.7	14.8	12 21	25.1	4.9	3 3	20.2
20.0	18.8	18.6	16.2	15.2	15.4	14.1	13.1	15.5	11 48	21.9	8.8	1 58	13.1
17.2	17.0	16.8	16.8	15.2	15.0	14.6	13.8	15.0	12 55	22.9	9.9	2 56	13.0
18.7	18.5	17.8	16.6	14.8	13.2	12.6	11.8	15.1	-	23.2	6.1	-	17.2
17.9	17.4	17.4	16.9	16.3	15.5	14.3	13.4	15.4	-	19.9	10.0	-	9.9
20.0	20.6	18.6	16.1	12.3	8.3	9.5	9.6	14.1	-	26.8	- 0.6	-	27.4
10° + Tabular Quantities													
DECEMBER													
										h m	h m		
17.4	16.8	16.2	15.8	15.0	11.6	5.2	11.0	13.3	11 57	20.9	- 1.2	2 42	22.1
19.3	17.2	15.3	14.8	14.2	13.8	12.2	12.7	15.1	13 41	22.1	8.9	2 47	13.2
16.3	17.2	16.6	14.2	14.1	13.7	12.6	9.9	14.9	12 34	22.6	7.7	24 0	14.9
17.2	16.0	15.6	15.0	15.0	14.0	11.3	10.7	14.9	13 7	20.0	7.6	0 1	12.4
17.0	19.4	19.0	14.6	11.0	12.6	11.2	6.1	14.1	13 34	22.0	1.9	23 57	20.1
17.1	18.2	17.2	14.4	9.8	10.0	10.7	11.1	14.6	13 15	24.1	2.8	0 0	21.3
17.4	15.8	15.0	14.8	14.0	13.1	10.5	8.7	14.9	12 46	21.9	7.3	23 32	14.6
16.6	15.5	16.0	15.7	14.8	13.7	13.2	12.1	14.3	13 54	18.2	8.1	0 20	10.1
17.8	16.6	16.3	14.8	14.2	7.0	11.2	12.1	14.7	15 19	23.3	2.5	21 37	20.8
21.4	19.6	19.9	15.7	9.3	7.9	6.1	4.8	14.5	16 20	23.1	0.1	22 32	23.0
20.7	22.4	23.1	18.0	15.2	9.2	5.1	8.6	14.9	14 4	26.9†	- 0.2	21 25	27.1
15.0	13.7	9.1	16.3	12.3	11.2	13.0	8.9	12.5	18 33	21.9	1.1	1 19	20.8
17.7	18.6	18.2	16.9	14.7	13.3	13.1	13.2	14.9	15 13	22.0	9.4	0 57	12.6
16.0	15.9	15.9	16.6	16.0	14.8	13.0	13.0	14.5	12 56	19.7	11.0	3 11	8.7
17.1	18.2	17.3	16.7	15.0	13.8	13.6	13.1	15.1	13 54	25.0	11.0	0 1	14.0
16.4	16.2	13.2	15.6	15.8	14.9	9.6	13.0	14.5	13 59	20.2	7.6	22 34	12.6
17.0	18.2	14.7	15.6	15.7	15.0	12.8	10.7	13.7	17 53	19.6	4.9	2 30	14.7
15.7	15.0	16.2	15.7	15.0	14.5	14.0	12.2	14.3	14 14	19.6	7.7	0 23	11.9
20.0	18.8	22.1	22.3	20.0	16.0	15.8	11.6	15.8	19 30	25.9	7.9	24 0	18.0
16.7	16.7	18.1	16.6	15.0	11.6	12.3	11.7	13.6	13 59	20.5	6.1	3 10	14.4
16.4	16.8	17.2	16.3	16.4	14.3	14.4	13.0	13.9	14 37	19.8	6.9	5 53	12.9
16.1	15.8	16.0	15.5	14.6	13.8	13.6	13.3	13.9	14 8	18.7	10.6	0 57	8.1
16.6	16.3	15.8	14.8	14.3	14.0	14.2	13.9	14.6	13 58	19.0	10.5	9 40	8.5
17.3	17.7	17.4	17.8	15.4	14.3	13.2	13.0	14.9	14 12	19.8	9.9	9 7	9.9
18.2	18.4	20.4	18.1	16.2	14.2	13.4	12.8	15.1	13 6	23.2	9.9	5 57	13.3
18.0	18.3	20.3	15.8	14.4	13.7	13.2	13.0	14.9	12 50	25.0	8.8	5 50	16.2
16.8	16.6	17.1	17.7	17.4	15.0	14.3	12.6	14.6	14 9	18.9	10.6	9 25	8.3
17.0	16.8	16.4	17.0	16.7	15.3	14.0	13.2	14.5	14 25	18.2	11.0	9 21	7.2
17.0	16.6	16.2	16.2	16.2	13.3	11.7	11.2	14.4	13 44	19.0	9.9	23 22	9.1
17.5	16.6	16.0	15.8	15.3	14.9	14.1	13.8	14.3	13 24	21.9	5.6	2 12	16.3
17.6	21.9	21.7	14.2	8.5	12.0	7.4	2.9	14.7	17 11	24.1	- 2.4†	22 57	26.5
17.4	17.3	17.1	16.1	14.6	13.1	11.9	11.2	14.5	-	21.5	6.6	-	15.0
16.7	16.4	16.3	16.2	15.8	14.3	13.6	12.8	14.4	-	18.8	10.5	-	8.2
17.6	18.6	17.5	15.7	12.2	10.8	8.3	8.5	14.0	-	23.6	0.0	-	23.6
* International Quiet Day. ** International Disturbed Day. † Indicates extreme monthly values.													

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	626	625	625	625	626	626	628	627	629	631	628	609	605	612	611	602	
2	629	623	622	622	624	627	629	630	633	646	637	629	620	624	626	622	
3	585	582	582	583	586	588	589	591	594	594	589	591	586	589	587	590	
4	615	613	613	612	610	612	615	616	609	611	611	608	611	616	612	609	
5 *	625	625	626	627	627	628	628	625	625	623	615	613	613	620	625	624	
6	625	624	624	628	632	640	643	641	634	627	619	612	606	611	619	623	
7	637	633	635	637	632	632	635	636	635	635	628	625	626	631	632	629	
8	632	634	627	622	624	633	634	630	631	627	618	613	618	620	625	622	
9	619	619	615	615	615	614	615	618	621	618	609	604	603	601	589	594	
10 **	605	605	612	617	611	633	638	625	619	600	593	579	576	582	569	569	
11	600	603	604	608	608	606	607	609	593	579	575	567	570	572	588	597	
12	618	618	616	617	610	620	621	621	612	605	603	599	595	596	603	612	
13 *	629	624	626	627	629	630	631	631	631	626	609	594	586	589	599	613	
14 *	621	623	626	629	630	633	636	637	633	627	614	606	601	601	606	612	
15	629	631	630	630	630	636	640	638	635	625	619	612	611	600	595	609	
16	625	626	627	628	630	634	633	633	632	621	612	607	597	595	601	602	
17	625	629	630	629	628	628	633	632	631	625	619	610	607	609	607	612	
18 *	632	632	630	631	633	637	641	639	636	626	613	603	600	609	612	614	
19	633	632	633	633	637	640	641	645	649	646	628	615	609	613	621	612	
20 *	626	620	622	620	624	627	629	631	630	630	625	613	603	613	620	626	
21 **	643	641	634	631	634	639	636	630	620	632	605	598	592	621	626	618	
22 **	456	439	403	475	469	481	503	512	527	538	531	531	538	544	556	561	
23 **	582	585	583	584	589	594	595	593	581	548	539	532	527	537	543	552	
24	587	588	595	592	588	583	586	586	583	576	571	567	559	571	588	591	
25	575	557	574	575	572	571	580	600	595	590	579	571	573	579	583	587	
26	604	605	605	601	600	609	614	616	615	604	590	583	579	580	586	591	
27	609	608	611	612	612	613	613	619	620	616	605	578	571	579	587	592	
28	614	612	612	615	620	620	623	624	627	620	608	599	595	596	607	611	
29	615	616	617	617	619	617	623	627	625	616	602	592	591	607	612	607	
30 **	570	601	607	600	597	615	619	597	571	570	570	548	544	544	561	577	
31	604	603	598	602	601	601	599	603	597	596	597	595	587	587	589	583	
Mean	610	609	609	611	611	615	618	618	615	611	602	594	590	595	600	602	
Mean *	627	625	626	627	629	631	633	633	631	626	615	606	601	606	612	618	
Mean **	571	574	568	581	580	592	598	591	584	578	568	558	555	566	571	575	
FEBRUARY																	
18000 γ + Tabular Quantities (in γ)																	
1	614	610	606	605	607	614	619	622	623	611	607	602	600	601	604	607	
2	616	616	617	619	622	620	620	622	619	617	615	610	607	610	617	612	
3	614	611	613	617	617	617	615	613	614	611	610	608	614	618	623	617	
4 **	599	599	599	599	602	601	614	616	613	606	602	592	575	586	597	597	
5 **	596	592	599	601	607	591	588	584	566	558	546	547	550	555	567	596	
6	604	606	600	603	601	606	601	600	594	596	598	596	596	597	593	596	
7 *	614	613	614	616	615	615	617	613	606	598	600	596	596	596	596	600	
8	614	611	611	617	617	615	617	622	627	620	611	602	596	599	603	605	
9	623	619	623	616	621	621	623	626	625	620	611	604	601	607	612	616	
10 *	624	617	620	623	623	624	628	629	632	634	619	612	610	613	615	613	
11	632	631	630	641	637	640	644	644	639	630	618	613	608	614	615	619	
12	625	627	626	630	655	636	619	615	620	615	608	605	608	618	619	614	
13 **	632	631	622	626	639	629	643	623	617	598	585	573	554	577	596	582	
14	606	609	606	611	611	611	611	610	605	601	595	594	590	590	594	595	
15	618	619	619	620	621	624	630	636	626	610	614	618	605	596	608	613	
16	622	622	622	628	630	630	630	633	629	626	622	617	611	610	610	608	
17	622	626	628	626	628	629	630	632	631	626	621	613	613	617	625	626	
18	618	616	615	618	618	621	611	609	610	621	629	631	629	627	618	613	
19	604	608	608	611	607	616	606	601	617	612	617	615	608	606	617	610	
20	598	608	603	596	603	607	605	597	592	590	591	591	591	603	611	608	
21 **	622	631	636	624	608	605	612	608	583	583	584	598	604	605	604	612	
22	608	616	603	599	599	598	601	605	604	595	586	583	579	598	603	608	
23	616	609	608	612	609	624	621	616	610	604	603	606	600	615	619	621	
24 **	563	534	562	583	546	585	559	577	561	513	509	528	567	572	572	571	
25	603	599	606	603	600	600	603	604	598	595	605	611	611	609	603	601	
26 *	615	615	620	615	616	618	619	621	623	623	624	628	635	633	627	612	
27 *	620	623	626	622	619	620	626	628	629	622	615	610	610	613	615	615	
28 *	625	624	623	624	627	628	630	631	629	622	617	619	620	626	626	630	
Mean	613	612	613	614	614	616	616	616	612	606	602	601	600	604	607	608	
Mean *	620	618	621	620	620	621	624	624	624	620	615	613	614	616	616	614	
Mean **	602	597	604	607	600	602	603	602	588	572	565	568	570	579	587	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		
600	608	617	628	629	629	628	626	621	9 35	632	590	12 2	42	1
621	632	638	617	580	564	573	571	618	9 35	662	545	21 15	117	2
595	598	604	611	612	611	615	613	594	22 44	623	575	2 52	48	3
610	615	619	622	624	622	621	624	615	23 11	625	606	11 29	19	4
622	627	630	631	631	629	628	625	625	19 11	635	611	11 49	24	5 *
628	633	637	641	644	645	642	637	630	21 48	647	604	12 18	43	6
629	632	635	637	637	638	636	635	633	0 20	642	619	11 57	23	7
619	606	605	603	598	608	607	611	619	1 0	643	590	20 47	53	8
602	601	598	602	606	618	618	611	609	21 21	631	580	15 9	51	9
579	593	596	602	608	622	588	611	601	6 39	653	561	15 34	92	10 **
601	611	613	616	614	612	613	610	599	23 56	619	559	11 46	60	11
615	623	627	628	628	626	627	624	615	23 8	632	594	13 0	38	12
621	629	632	635	633	631	628	622	621	0 20	636	585	12 22	51	13 *
618	627	630	628	629	631	630	629	623	7 0	641	597	12 51	44	14 *
617	626	619	622	633	633	629	628	624	6 15	641	592	14 16	49	15
612	619	622	624	626	624	626	626	620	5 49	637	588	13 12	49	16
624	629	629	626	624	629	634	633	624	22 18	636	604	14 43	32	17
619	623	626	629	632	633	632	631	626	6 45	642	598	12 25	44	18 *
600	606	597	602	615	617	621	625	624	8 43	652	592	18 48	60	19
630	629	634	637	640	642	642	643	627	22 21	644	601	12 25	43	20 *
587	584	571	554	609	549	530	436	601	22 19	830 [†]	299	22 34	531	21 **
571	569	576	577	583	584	586	584	529	16 39	612	206 [†]	2 14	406	22 **
559	565	580	591	582	587	590	589	571	19 19	607	513	11 55	94	23 **
598	603	606	604	594	602	602	601	588	19 13	645	552	12 17	93	24
593	597	597	599	603	613	606	602	586	21 26	621	544	1 4	77	25
583	595	597	603	607	612	608	615	600	8 9	621	574	16 27	47	26
590	603	611	613	616	619	619	614	605	22 0	626	565	12 50	61	27
616	616	608	618	620	619	615	618	614	8 21	626	592	13 1	34	28
598	591	559	536	554	568	575	577	598	7 40	628	526	19 25	102	29
584	594	593	594	602	605	606	614	587	23 30	634	536	12 59	98	30 **
594	606	602	610	613	609	611	605	600	22 30	621	579	15 57	42	31
604	609	610	611	614	614	612	609	608	-	640	557	-	82.8	Mean
622	627	630	632	633	633	632	630	624	-	640	598	-	41.2	Mean *
576	581	583	584	597	589	580	567	578	-	667	423	-	244.2	Mean **
18000 γ + Tabular Quantities (in γ)														
FEBRUARY														
										h m	h m	γ		
610	616	620	622	619	623	623	622	613	23 5	626	598	13 0	28	1
619	612	604	611	624	624	633	624	617	22 36	641	595	18 29	46	2
614	609	608	616	626	612	602	606	614	20 56	665	594	22 1	71	3
580	580	574	580	565	559	551	576	590	7 35	620	543	22 38	77	4 **
588	588	592	589	598	610	593	598	583	21 28	621	539	12 53	82	5 **
596	599	608	613	614	615	614	614	603	0 56	623	585	8 53	38	6
607	610	610	610	613	619	615	614	608	21 44	623	589	11 48	34	7 *
608	617	616	621	624	628	630	624	615	22 48	632	594	12 29	38	8
616	620	620	621	628	623	623	624	618	20 57	630	599	12 38	31	9
614	620	628	632	636	635	633	633	624	21 9	639	607	12 14	32	10 *
601	599	609	619	619	620	623	624	624	5 41	646	591	16 40	55	11
620	619	625	639	640	638	637	627	624	4 54	665	601	11 16	64	12
594	620	618	579	593	594	603	608	606	18 5	671 [†]	529	12 39	142	13 **
595	603	612	618	619	620	622	619	606	22 32	622	586	13 40	36	14
605	614	613	614	621	617	622	621	617	7 22	638	591	13 57	47	15
599	600	601	613	623	626	627	627	619	7 44	636	590	16 43	46	16
620	614	620	622	610	615	614	616	622	2 15	633	604	11 42	29	17
608	609	608	617	606	594	605	606	615	12 42	637	585	21 20	52	18
608	595	608	607	592	600	599	600	607	19 7	637	578	19 30	59	19
613	608	614	619	626	628	631	627	607	22 9	637	584	12 16	53	20
600	595	608	608	622	599	593	589	606	20 23	634	572	8 38	62	21 **
611	615	612	625	627	610	615	629	605	23 7	652	575	12 13	77	22
615	612	647	628	628	608	608	576	613	18 35	666	564	23 50	102	23
570	587	600	603	607	604	605	600	570	20 5	609	494 [†]	9 37	115	24 **
599	603	611	615	616	616	616	617	606	23 30	617	591	8 54	26	25
608	613	619	623	624	625	626	623	621	12 35	636	605	16 30	31	26 *
615	620	627	629	630	625	628	626	621	19 26	632	607	12 2	25	27 *
630	630	631	635	636	632	631	630	627	20 18	639	615	10 47	24	28 *
606	608	613	615	617	615	615	614	611	-	637	582	-	54.4	Mean
615	619	623	626	628	627	627	625	620	-	634	605	-	29.2	Mean *
586	594	598	592	597	593	589	594	591	-	631	535	-	95.6	Mean **

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

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	629	631	630	630	633	633	632	634	637	633	625	626	625	625	621	628	
2 **	616	593	616	607	617	538	439	506	505	522	513	463	449	470	528	532	
3	548	560	549	546	555	563	549	566	569	556	555	551	558	556	560	566	
4	606	626	622	608	600	596	599	601	601	598	585	582	582	585	596	598	
5	599	618	608	605	604	610	612	610	610	600	591	590	589	605	603	610	
6	626	607	606	609	611	607	611	615	607	602	593	586	589	592	599	600	
7 *	618	622	623	623	618	615	615	612	610	599	595	598	604	614	611	611	
8	623	615	615	612	615	618	622	620	618	604	597	594	585	583	597	608	
9	627	617	619	622	618	620	631	627	626	618	609	601	600	601	598	602	
10 **	639	641	640	648	646	647	643	635	621	605	593	540	515	546	548	541	
11 *	551	559	568	572	569	570	572	569	568	564	556	548	549	556	569	571	
12 *	610	613	618	626	618	623	619	622	615	608	600	589	590	593	596	601	
13 *	617	618	617	617	617	622	622	622	618	606	582	579	585	589	598	606	
14 *	625	625	626	627	629	631	634	633	622	604	589	582	580	584	591	601	
15	637	633	635	643	638	641	646	643	633	614	600	592	596	601	611	619	
16	648	637	608	610	612	619	633	626	611	596	587	587	596	604	615	615	
17	608	617	622	608	608	604	608	611	603	590	582	580	591	591	598	611	
18	625	627	622	620	623	632	635	627	621	612	598	586	574	584	604	609	
19	628	630	627	627	626	627	627	629	624	610	603	599	598	600	604	609	
20	653	636	625	624	631	644	625	632	625	610	597	598	599	605	607	612	
21	630	629	627	637	637	629	631	635	632	621	612	606	615	632	629	653	
22	616	612	612	614	616	616	609	617	621	606	605	608	603	609	607	613	
23	630	632	631	620	610	619	618	616	618	608	593	578	590	591	606	616	
24	633	632	636	636	630	628	628	626	613	602	601	600	607	617	624	628	
25	631	635	647	631	677	637	609	618	611	582	567	561	558	569	589	591	
26	624	623	623	623	622	625	628	630	627	615	603	599	586	598	616	615	
27 **	632	619	620	632	637	619	623	619	611	599	586	594	586	591	619	605	
28 **	578	547	588	592	590	603	603	545	530	525	548	541	527	541	550	570	
29 **	615	616	615	626	638	641	627	635	629	603	588	581	591	624	609	711	
30	572	611	590	587	594	594	589	585	574	562	553	553	556	565	579	594	
31	621	614	608	619	616	626	622	614	607	595	577	574	578	598	591	611	
Mean	617	616	616	616	618	616	612	612	607	596	587	580	579	588	596	605	
Mean *	604	607	610	613	610	612	612	612	607	596	584	579	582	587	593	598	
Mean **	616	603	616	621	626	610	587	588	579	571	566	544	534	554	571	592	
APRIL																	
18000 γ + Tabular Quantities (in γ)																	
1	619	611	611	614	621	606	614	606	596	594	583	578	577	582	597	617	
2	610	628	613	612	613	612	614	617	611	596	580	580	582	578	594	610	
3	630	630	621	622	626	625	633	635	632	624	596	588	602	613	618	621	
4	613	608	610	616	615	614	622	613	601	601	589	588	594	590	611	621	
5 **	618	625	623	622	625	626	629	623	614	601	593	554	573	573	591	604	
6	629	613	621	621	634	613	634	628	603	578	563	563	570	585	593	606	
7 *	629	629	627	625	629	634	637	634	622	605	589	583	591	600	613	624	
8	639	636	642	646	650	650	659	656	637	612	601	608	611	614	604	608	
9	625	632	629	629	634	629	646	639	634	620	601	587	579	579	605	615	
10 **	631	605	631	658	644	604	598	581	572	563	551	537	548	553	559	572	
11	624	617	615	615	614	624	625	624	613	603	586	562	554	573	592	609	
12	624	628	628	623	624	632	635	624	614	597	586	583	583	600	609	629	
13 *	637	628	638	635	640	641	640	624	613	608	599	591	592	591	591	609	
14 *	637	633	631	629	633	632	633	631	623	609	596	596	598	604	614	623	
15	654	651	652	650	653	657	660	664	652	630	610	598	600	615	631	627	
16	629	612	615	624	615	617	620	616	608	603	589	571	592	612	615	623	
17 **	626	629	632	641	634	633	646	633	624	609	595	606	631	643	652	654	
18 **	623	637	636	631	623	640	637	636	629	620	607	593	591	599	613	644	
19 **	579	571	574	612	626	604	588	596	576	572	566	554	541	561	573	570	
20	613	612	610	599	614	613	612	599	590	582	574	570	577	586	601	619	
21	634	630	627	623	637	636	630	623	618	599	584	593	594	605	612	608	
22 *	636	632	632	632	632	633	635	632	620	611	603	598	599	599	607	619	
23	647	652	638	629	631	642	646	638	631	623	609	610	609	619	617	626	
24	642	635	631	644	645	643	639	638	625	602	606	610	619	630	654	637	
25 *	621	631	626	625	623	624	626	626	619	620	619	621	620	621	618	615	
26	639	639	638	636	642	643	652	646	633	632	627	605	610	617	622	617	
27	633	631	634	619	621	629	630	620	610	612	620	610	613	607	613	625	
28	633	629	629	631	635	635	639	643	644	639	627	626	616	619	635	647	
29	624	625	614	609	621	616	619	624	622	612	594	602	595	592	592	593	
30	635	628	630	625	614	634	640	635	628	621	609	601	592	597	606	635	
Mean	628	626	625	627	629	628	631	627	617	607	595	589	592	599	608	618	
Mean *	632	631	631	629	631	633	634	629	619	611	601	598	600	603	609	618	
Mean **	615	613	619	633	630	621	620	614	603	593	582	569	577	586	598	609	

* 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			
635	608	596	633	648	648	629	618	629	629	21 25	661	578	18 26	83	1
531	555	514	524	530	539	543	520	532	532	5 4	656	350†	6 12	306	2 **
579	601	589	586	596	605	609	605	570	570	21 51	622	536	6 14	86	3
602	604	613	615	617	622	621	602	603	603	1 37	634	577	10 46	57	4
613	601	603	609	623	619	613	616	607	607	20 48	639	585	10 37	54	5
618	615	614	606	603	610	615	616	607	607	0 25	634	581	11 50	53	6
610	614	622	627	623	615	604	602	613	613	19 32	631	592	10 25	39	7 *
613	615	618	622	607	607	615	630	611	611	23 50	672	582	13 46	90	8
607	605	620	623	620	621	619	627	616	616	0 0	657	592	14 31	65	9
553	569	565	581	581	524	544	545	588	588	3 28	657	490	21 32	167	10 **
572	577	587	597	602	605	607	609	574	574	23 4	611	539	0 22	72	11 *
603	607	611	615	617	618	618	618	610	610	3 32	635	585	11 32	50	12 *
613	600	611	609	615	624	623	622	610	610	21 33	626	571	11 8	55	13 *
617	625	630	633	636	638	638	637	618	618	23 58	641	580	12 2	61	14 *
621	628	628	626	645	671	662	639	629	629	21 17	683	588	11 47	95	15
627	628	656	604	590	595	600	611	613	613	0 55	682	572	21 38	110	16
617	608	624	625	628	632	639	630	610	610	22 10	650	574	11 3	76	17
615	620	627	634	636	645	630	625	618	618	21 24	654	562	12 24	92	18
620	628	627	644	651	628	630	641	622	622	19 50	669	594	12 47	75	19
616	619	626	632	635	638	648	638	624	624	21 59	684	593	11 30	91	20
646	621	604	599	611	611	591	624	623	623	15 35	663	573	22 33	90	21
619	611	615	620	615	618	614	620	613	613	23 44	635	591	14 3	44	22
609	613	624	632	630	632	629	628	616	616	0 41	639	569	11 18	70	23
632	639	641	628	637	631	622	626	625	625	21 9	665	597	11 28	68	24
604	615	619	623	627	627	626	626	612	612	4 17	690	545	12 52	145	25
624	615	614	624	631	629	632	619	619	619	23 59	640	579	12 22	61	26
603	639	645	641	603	575	598	603	612	612	19 7	666	550	23 1	116	27 **
599	607	612	615	619	621	620	619	579	579	0 0	644	502	9 13	142	28 **
585	615	581	574	596	599	582	569	610	610	15 25	833†	521	14 9	312	29 **
596	603	609	619	622	623	620	623	591	591	1 20	642	549	10 44	93	30
631	652	627	616	625	623	608	600	611	611	16 56	667	568	11 1	99	31
607	612	612	614	617	616	614	613	607	607	-	657	560	-	97.3	Mean
603	605	612	616	619	620	618	618	605	605	-	629	573	-	55.4	Mean *
574	597	583	587	586	572	577	571	584	584	-	691	483	-	208.6	Mean **

18000 γ + Tabular Quantities (in γ)															
										h m	h m	γ			
629	635	631	621	614	618	639	626	610	610	22 53	651	572	12 43	79	1
617	635	640	636	630	630	618	614	611	611	19 6	656	573	13 19	83	2
633	642	628	647	614	606	609	632	622	622	19 38	657	584	10 57	73	3
623	622	634	630	629	620	616	615	612	612	19 0	642	582	13 9	60	4
622	632	636	640	644	643	633	642	616	616	23 40	671	541	11 25	130	5 **
613	614	621	622	625	628	629	633	610	610	2 50	645	556	11 19	89	6
628	634	634	639	641	642	643	643	624	624	23 3	646	582	11 24	64	7 *
611	621	632	630	618	624	625	624	627	627	6 40	661	598	14 33	63	8
616	628	635	617	626	624	619	636	620	620	6 24	653	566	12 51	87	9
592	588	595	599	608	613	617	616	593	593	3 37	681	531	11 21	150	10 **
618	624	632	636	630	629	636	634	612	612	22 58	654	542	13 5	112	11
635	623	640	635	637	631	633	635	620	620	18 8	644	582	12 4	62	12
627	636	634	637	640	640	646	640	624	624	22 25	648	586	14 27	62	13 *
635	644	653	653	653	659	657	657	631	631	22 4	664	595	11 53	69	14 *
637	642	648	645	654	641	623	647	639	639	20 53	680	592	11 50	88	15
626	637	635	634	642	645	630	628	618	618	0 0	663	545	10 54	118	16
662	661	666	689	676	680	647	669	643	643	23 37	817†	560	24 0	257	17 **
659	655	652	640	627	615	594	579	624	624	0 53	719	554	0 1	165	18 **
595	639	648	608	603	611	613	629	592	592	17 58	658	527†	12 26	131	19 **
636	639	632	638	629	632	636	632	610	610	19 14	644	568	11 37	76	20
609	618	632	646	647	647	656	640	623	623	22 44	664	581	10 31	83	21
632	643	653	648	644	647	647	647	628	628	18 53	657	596	11 29	61	22 *
640	650	655	659	660	653	646	654	637	637	20 3	668	605	12 40	63	23
649	640	640	652	651	644	638	633	635	635	14 53	694	597	9 34	97	24
622	647	658	645	641	645	640	639	629	629	18 33	663	610	15 40	53	25 *
600	646	638	657	659	640	622	622	633	633	20 7	670	582	16 10	88	26
627	636	642	651	645	638	636	635	627	627	20 4	657	597	13 38	60	27
658	648	655	626	622	639	610	622	634	634	18 22	674	606	22 20	68	28
597	610	632	638	639	638	640	636	616	616	20 33	643	585	13 51	58	29
625	656	657	658	646	657	647	642	630	630	21 1	667	587	12 27	80	30
626	635	640	639	636	636	632	633	622	622	-	667	576	-	91.0	Mean
629	641	646	644	644	647	647	645	627	627	-	656	594	-	61.8	Mean *
626	635	639	635	632	632	621	627	614	614	-	709	543	-	166.6	Mean **

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

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 **	636	632	634	645	628	648	647	626	617	616	609	610	597	605	606	608	
2	645	647	643	646	644	637	647	645	637	625	611	602	605	604	617	626	
3	648	638	639	653	645	644	643	639	632	620	603	603	600	607	623	633	
4	636	639	636	634	629	627	631	630	627	621	617	615	611	611	621	628	
5	-	-	-	-	-	-	-	-	-	-	615	610	616	620	634	636	
6	653	645	638	641	648	640	643	640	634	615	582	595	590	598	619	616	
7	643	635	640	643	648	645	656	652	646	636	616	606	612	623	626	652	
8	648	647	647	651	652	655	651	644	631	628	611	615	618	625	623	633	
9 **	664	666	658	644	643	644	645	654	647	634	607	604	607	602	606	607	
10	638	638	634	635	632	633	631	625	615	610	610	607	601	611	627	634	
11	644	642	643	644	643	646	640	634	634	637	636	634	633	632	632	636	
12 *	634	634	636	640	643	642	639	635	632	635	639	639	640	635	634	640	
13	663	654	652	657	648	647	640	632	622	611	597	592	596	598	618	630	
14	651	642	641	643	643	646	639	632	627	620	610	602	604	621	634	647	
15 *	655	654	646	646	650	649	641	634	630	627	626	621	629	640	647	641	
16 *	645	645	644	646	649	647	645	635	626	626	628	625	621	624	630	639	
17	646	646	646	647	653	659	653	646	637	621	609	612	612	621	628	639	
18	653	645	646	651	654	656	646	633	623	615	609	613	625	638	648	649	
19	646	645	645	650	653	649	643	630	616	609	612	618	622	624	649	672	
20 **	659	651	647	651	650	637	639	631	626	610	595	600	593	605	603	609	
21	649	654	649	646	645	639	636	637	626	619	608	612	620	614	633	641	
22	647	651	651	655	654	647	645	643	639	632	626	628	621	624	640	642	
23	659	659	666	654	650	654	646	634	631	628	627	621	624	630	651	660	
24 *	642	644	648	650	650	651	642	629	611	602	600	616	639	640	637	641	
25	650	649	657	656	655	663	659	642	642	630	615	620	623	630	637	638	
26 **	646	646	648	635	643	642	635	616	579	557	557	587	599	627	620	658	
27	627	631	635	635	636	633	622	624	620	611	603	608	623	636	643	645	
28	643	640	644	644	647	645	638	626	620	624	626	621	629	633	644	661	
29 *	645	639	636	639	643	645	637	621	619	619	619	619	622	626	633	649	
30 **	655	658	644	647	647	648	643	635	632	608	581	582	633	596	604	639	
31	626	624	626	632	624	636	624	611	599	583	587	598	606	610	619	628	
Mean	647	645	644	646	646	646	642	634	626	618	609	611	615	620	629	638	
Mean *	644	643	642	644	647	647	641	631	624	622	622	624	630	633	636	642	
Mean **	652	651	646	644	642	644	642	632	620	605	590	597	606	607	608	624	
JUNE																	
18000 γ + Tabular Quantities (in γ)																	
1 *	657	653	652	652	649	650	648	641	636	629	620	612	624	627	617	628	
2 *	661	659	655	657	660	659	653	642	629	619	614	616	629	637	644	671	
3	677	676	680	670	667	647	651	641	637	643	652	620	615	633	669	698	
4 **	665	664	637	637	647	635	647	635	616	603	590	591	599	611	636	643	
5	631	641	641	646	632	624	612	605	601	598	601	610	615	608	618	643	
6 **	637	635	643	663	651	611	603	606	598	586	585	602	613	607	609	619	
7	675	661	652	635	640	638	628	616	610	602	601	607	618	621	625	628	
8	643	658	661	653	651	640	640	636	628	614	610	613	614	607	610	628	
9 *	646	642	643	649	648	655	647	627	610	601	602	602	605	612	627	654	
10 *	647	647	647	648	651	651	647	642	639	638	634	633	630	627	634	646	
11 *	647	646	651	654	655	650	643	634	624	617	612	614	623	634	646	654	
12	659	664	657	655	657	657	648	632	626	622	622	624	630	619	639	662	
13	660	650	649	653	654	650	638	622	612	615	627	617	620	625	631	643	
14	650	646	643	647	651	647	641	635	630	621	610	602	603	612	630	652	
15	663	661	647	652	647	654	651	637	628	621	621	620	626	627	654	630	
16	655	647	647	647	647	644	637	629	627	624	624	625	639	645	654	650	
17	672	677	676	681	658	640	661	645	631	619	608	600	593	622	654	644	
18	659	647	672	661	644	652	622	604	593	595	595	602	599	628	643	644	
19	662	648	642	643	633	628	618	623	619	591	576	574	585	607	626	614	
20	643	643	660	652	645	654	645	637	621	603	595	596	606	619	627	646	
21	651	653	659	655	647	643	656	646	631	623	617	625	616	607	605	623	
22	651	651	654	656	655	652	642	629	613	596	618	636	620	624	625	635	
23	659	646	646	649	651	645	627	610	605	602	605	617	618	617	614	635	
24	656	680	648	648	640	642	642	638	630	629	623	608	611	617	620	641	
25 **	647	661	662	656	649	642	642	633	621	615	607	620	593	592	632	656	
26 **	648	662	669	647	621	657	575	549	530	534	490	498	533	589	610	603	
27	630	617	621	627	630	625	607	586	576	586	593	611	622	623	606	623	
28	650	642	654	655	651	646	625	588	586	593	601	615	603	619	625	659	
29	644	643	645	648	651	647	639	630	618	613	610	610	609	626	635	645	
30 **	657	657	655	663	635	635	684	678	632	624	667	640	577	672	688	705	
Mean	653	653	652	652	647	644	637	626	615	609	608	609	610	620	632	644	
Mean *	652	649	650	652	653	653	648	637	628	621	616	615	622	627	634	651	
Mean **	651	656	653	653	641	636	630	620	599	592	588	590	583	614	635	645	

* International Quiet Day. ** International Disturbed Day.

§ May 4 and 5 are not included in the Means.

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	
613	635	647	645	647	647	645	642	629	5 33	659	592	12 36	67	1 **
635	647	654	650	653	654	652	649	636	21 20	655	594	12 3	61	2
640	659	667	648	640	643	638	636	635	17 55	673	597	10 50	76	3
644	664	662	652	-	-	-	-	-	17 52	666	605	13 7	61	4 ∞
649	656	646	651	654	657	657	658	-	24 0	671	607	11 13	64	5 ∞
631	636	639	645	655	659	655	656	632	0 6	674	574	10 39	100	6
668	658	645	648	649	648	648	646	641	16 27	675	602	11 35	73	7
643	666	676	678	684	694	683	685	650	21 58	722†	604	10 43	118	8
627	641	650	651	642	644	643	644	636	0 33	670	593	13 34	77	9 **
647	664	665	668	648	655	667	658	636	22 43	681	595	12 10	86	10
651	657	660	667	660	659	660	649	645	19 55	671	624	14 55	47	11
655	660	656	660	659	659	653	658	644	17 16	665	626	0 54	39	12 *
652	658	681	664	667	649	647	647	638	18 12	685	588	12 55	97	13
660	665	655	660	655	652	654	659	640	19 20	669	598	11 52	71	14
647	654	654	667	668	662	647	645	645	19 54	669	620	11 18	49	15 *
657	676	680	671	654	656	654	649	645	18 23	682	620	12 45	62	16 *
654	675	660	666	671	667	659	653	645	17 20	688	607	10 50	81	17
664	667	675	678	663	654	653	647	646	19 45	679	606	10 33	73	18
665	683	688	664	672	659	665	657	647	18 6	698	606	9 16	92	19
642	663	671	674	662	654	651	654	637	18 3	679	587	12 18	92	20 **
643	659	670	670	659	654	646	645	641	18 38	677	601	10 33	76	21
645	663	659	659	654	652	654	654	645	17 16	668	616	12 53	52	22
675	682	680	664	654	646	640	643	649	18 23	686	618	12 12	68	23
646	658	665	658	654	653	651	649	641	18 18	667	596	10 7	71	24 *
663	669	670	669	677	670	653	645	649	20 54	682	609	10 53	73	25
642	636	649	666	653	641	622	619	626	19 19	672	536†	10 6	136	26 **
640	640	645	649	652	651	645	643	633	21 38	656	599	10 31	57	27
662	651	657	652	651	657	661	652	643	16 3	675	613	8 56	62	28
640	655	663	659	652	653	654	653	639	18 25	665	612	7 55	53	29 *
659	681	657	657	662	641	636	629	636	17 28	690	560	11 12	130	30 **
640	653	662	669	666	665	664	659	630	20 32	672	579	9 28	93	31
649	659	662	661	658	655	652	649	640	-	676	599	-	76.0	Mean
649	661	664	663	657	657	652	651	643	-	670	615	-	54.8	Mean *
637	651	655	659	653	645	639	638	633	-	674	574	-	100.4	Mean **

18000 γ + Tabular Quantities (in γ)														
										h m	h m		γ	
652	664	665	661	665	667	662	662	646	21 34	668	608	11 9	60	1 *
672	671	676	669	670	672	673	678	654	23 32	683	610	10 30	73	2 *
676	714	717	655	647	649	653	640	660	18 12	729	601	12 11	128	3
669	657	676	686	669	636	637	652	639	18 46	697	577	10 44	120	4 **
663	671	686	668	659	648	639	661	634	23 22	689	590	9 41	99	5
621	649	664	672	690	677	651	656	631	20 32	713	578	10 32	135	6 **
633	642	644	647	651	651	656	642	634	0 43	688	593	10 32	95	7
639	655	669	677	667	658	653	651	641	19 16	679	600	13 55	79	8
659	666	662	657	653	646	647	647	638	17 24	669	596	9 41	73	9 *
657	667	667	661	666	663	662	653	648	17 10	669	627	13 6	42	10 *
656	659	664	669	670	666	664	666	647	20 28	672	608	11 5	64	11 *
650	659	672	679	679	670	666	663	650	20 27	678	614	13 32	64	12
651	669	678	685	679	670	665	657	647	19 53	694	609	8 59	85	13
662	671	662	674	678	665	664	659	644	20 42	683	595	11 35	88	14
659	697	672	683	667	660	661	667	650	17 6	706	599	15 57	107	15
649	660	669	671	673	675	671	671	649	22 7	678	613	11 11	65	16
661	664	669	681	671	686	658	655	651	21 53	690	581	12 21	109	17
654	670	678	690	677	662	661	668	643	19 53	699	588	10 51	111	18
636	661	650	657	657	657	651	644	629	0 43	671	567	11 2	104	19
654	654	681	688	688	657	662	657	643	19 17	709	591	10 52	118	20
646	662	680	688	667	658	647	648	644	19 53	704	598	14 11	106	21
638	642	648	656	660	660	660	663	641	23 46	669	589	9 45	80	22
652	660	667	684	670	662	655	655	640	20 4	686	598	10 0	88	23
651	661	666	658	663	659	654	647	643	1 36	687	596	11 44	91	24
672	696	673	680	675	664	648	644	645	17 54	723	583	12 32	140	25 **
628	627	622	627	640	632	644	637	603	21 2	683	453	10 48	230	26 **
625	631	642	647	660	661	661	652	623	23 12	672	571	8 16	101	27
655	668	661	655	652	645	643	642	635	15 45	680	579	7 27	101	28
644	647	652	655	663	664	669	667	641	22 54	672	604	12 51	68	29
772	694	709	698	594	525	475	439	641	16 11	857†	404†	23 47	453	30 **
655	664	668	669	664	656	650	648	641	-	693	584	-	109.2	Mean
659	665	667	663	665	663	662	661	647	-	672	610	-	62.4	Mean *
672	665	669	673	654	627	611	606	632	-	735	519	-	215.6	Mean **

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

§ May 4. Maximum and Minimum value for the period from 0^h to 20^h.
 May 5. " " " " " " " " " " 10^h to 24^h.

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 **	489	538	547	543	597	591	544	526	523	528	530	532	533	547	562	572	
2 **	613	615	615	615	616	616	612	602	591	590	577	577	537	583	693	721	
3 **	612	630	647	610	598	594	599	591	572	559	553	570	558	591	596	627	
4	620	622	627	626	627	628	628	625	620	611	604	600	596	595	599	615	
5 **	636	661	660	665	617	603	608	589	587	583	575	572	569	574	591	599	
6	611	615	614	614	622	621	617	609	599	595	588	585	590	583	593	606	
7	618	623	626	626	620	624	621	615	607	597	594	603	610	617	624	634	
8	644	638	628	642	648	640	636	620	622	618	606	601	599	599	603	623	
9	652	645	643	644	646	645	636	627	620	611	602	602	605	612	624	645	
10 *	644	646	651	650	644	645	633	618	609	601	597	595	600	613	626	635	
11 *	652	652	650	651	656	656	651	644	632	618	613	615	629	623	619	643	
12	650	646	658	666	661	650	642	630	620	612	609	610	618	635	646	648	
13 *	645	644	642	647	651	650	641	624	607	597	596	605	614	617	629	643	
14	657	655	653	656	659	656	649	641	630	618	612	613	615	629	641	639	
15 *	655	646	642	645	649	650	645	637	626	614	610	611	610	624	637	657	
16	660	658	658	659	663	662	655	646	641	641	634	617	617	608	625	641	
17	646	647	653	651	650	650	638	630	619	609	603	595	593	603	617	638	
18	660	650	650	654	652	647	641	643	633	635	629	615	619	610	632	642	
19 **	641	628	641	650	648	647	644	625	615	604	605	614	620	627	656	659	
20	616	627	633	631	631	627	620	612	602	592	585	585	593	602	598	615	
21	640	643	645	645	648	649	646	637	623	619	620	625	627	624	632	644	
22	660	658	660	663	669	669	649	658	661	649	632	604	606	635	644	632	
23	649	670	654	666	656	635	627	616	607	603	603	602	607	620	631	639	
24	653	649	649	652	654	653	645	632	625	622	617	617	607	621	637	646	
25	653	643	644	647	647	651	647	641	635	632	628	625	625	634	651	656	
26 *	658	656	653	656	660	658	649	640	629	622	623	628	637	647	656	663	
27	661	659	659	659	661	661	656	647	637	628	620	629	637	645	655	661	
28	690	677	675	670	673	673	665	651	644	640	644	644	648	649	653	657	
29	668	671	661	665	674	670	661	646	637	632	621	611	623	636	639	640	
30	653	654	653	655	648	648	642	635	624	617	616	615	617	620	631	643	
31	660	656	657	655	659	657	648	639	635	632	631	624	634	636	645	665	
Mean	641	643	644	644	645	643	635	626	617	611	606	605	606	615	629	640	
Mean *	651	649	648	650	652	652	644	633	621	610	608	611	618	625	633	648	
Mean **	598	614	622	617	615	610	601	587	578	573	568	573	563	584	620	636	
AUGUST																	
18000 γ + Tabular Quantities (in γ)																	
1	655	655	655	653	655	655	646	645	641	631	627	624	615	619	634	645	
2	665	653	660	660	656	654	661	655	640	620	605	606	606	603	627	648	
3 **	670	641	643	647	650	647	638	629	631	631	630	630	629	637	630	643	
4	644	627	635	642	643	638	630	626	619	615	613	614	622	634	640	642	
5	651	650	647	646	642	640	636	635	635	630	626	627	636	642	644	647	
6 **	642	639	642	638	635	673	665	625	598	610	612	605	622	614	596	601	
7	623	634	634	633	633	634	623	605	593	598	602	613	621	633	633	634	
8	650	647	645	647	646	639	633	621	612	604	603	610	625	625	633	622	
9	668	674	639	651	651	655	645	631	622	614	617	621	630	641	654	651	
10	652	652	657	654	658	655	647	640	629	617	608	607	606	618	625	633	
11 *	662	664	660	660	658	655	649	638	622	612	610	618	631	640	650	659	
12	668	675	676	670	671	650	645	646	634	637	611	614	621	621	621	633	
13 **	664	664	664	671	676	639	611	596	600	589	578	572	584	576	598	627	
14	644	647	646	646	643	635	631	623	614	609	609	616	612	622	631	633	
15	642	656	659	635	639	642	641	630	617	614	614	612	626	635	633	638	
16	647	655	654	646	647	645	645	638	626	616	611	621	633	639	642	646	
17 *	662	657	654	650	649	649	651	649	639	621	608	601	605	627	645	652	
18	664	662	663	660	659	658	654	646	638	633	622	612	609	608	634	640	
19	658	666	669	675	660	667	667	654	642	622	618	626	618	614	625	629	
20	659	655	654	654	655	650	646	641	637	632	637	626	621	634	629	646	
21	660	646	646	649	666	641	649	632	614	600	588	594	607	625	644	649	
22 *	644	644	645	642	643	639	637	633	626	629	634	637	641	650	650	651	
23 *	652	651	653	653	651	650	646	641	637	639	643	645	646	645	646	649	
24 *	656	656	655	655	658	658	654	645	638	636	630	625	618	623	634	642	
25	659	658	657	657	657	660	661	653	644	632	621	617	621	640	654	653	
26	657	653	653	650	650	650	645	640	630	621	612	612	619	633	645	664	
27	669	649	659	664	661	665	646	632	614	615	603	612	615	620	628	638	
28	652	653	650	653	650	645	645	631	612	594	580	592	611	634	654	649	
29	651	651	649	649	649	649	649	645	635	624	619	618	615	630	633	643	
30 **	642	594	594	619	589	595	593	578	569	564	581	575	603	611	615	621	
31 **	640	644	639	630	625	619	611	604	594	582	580	584	598	586	639	640	
Mean	654	651	650	650	649	647	642	632	623	616	611	612	618	625	634	641	
Mean *	655	654	653	652	652	650	647	641	632	627	625	625	628	637	645	651	
Mean **	652	636	636	641	635	635	624	606	598	595	596	593	607	605	616	626	

* 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		
591	614	673	657	656	628	625	620	574	18 23	772†	421†	0 0	351	1 **
703	678	661	656	636	624	615	611	623	15 48	753	505	12 46	248	2 **
633	633	648	658	643	633	631	629	609	2 29	672	538	12 44	134	3 **
631	639	675	657	675	648	633	636	627	18 41	686	592	13 32	94	4
610	619	635	644	649	653	628	610	614	21 57	684	549	8 0	135	5 **
610	622	650	672	664	646	645	632	617	19 19	681	574	11 2	107	6
646	661	669	667	655	647	647	643	629	18 17	680	589	10 40	91	7
646	661	659	667	665	655	647	651	634	19 20	667	585	13 2	82	8
658	663	668	662	668	652	659	653	639	18 14	672	596	11 1	76	9
649	659	659	659	656	654	654	654	635	19 34	664	593	11 32	71	10 *
652	655	664	663	666	661	652	647	644	20 51	671	610	11 4	61	11 *
658	674	675	663	660	655	653	647	645	18 32	680	606	10 56	74	12
652	661	659	663	665	666	664	660	639	21 12	666	593	10 22	73	13 *
654	661	674	683	683	673	662	662	649	19 4	688	606	12 37	82	14
659	660	666	667	663	662	661	663	644	19 16	669	604	9 49	65	15 *
664	690	688	673	649	659	659	654	651	17 16	699	599	13 32	100	16
641	659	674	683	673	674	668	664	641	19 8	689	588	12 20	101	17
676	691	683	669	659	649	642	645	647	17 13	700	602	13 2	98	18
678	696	699	682	658	637	641	629	644	18 19	706	597	9 44	109	19 **
641	659	662	666	654	655	660	657	626	23 17	673	578	10 42	95	20
653	653	657	669	673	672	664	657	644	19 37	673	614	9 32	59	21
644	669	691	698	670	654	643	646	653	20 0	739	593	12 23	146	22
641	645	656	661	657	658	659	666	639	3 47	682	598	11 37	84	23
661	679	667	658	657	661	656	645	644	17 38	690	594	12 18	96	24
649	659	662	672	668	660	657	660	648	19 9	674	621	12 10	53	25
664	663	660	660	661	662	662	662	651	15 4	668	620	10 17	48	26 *
668	669	666	664	692	694	694	693	659	22 37	704	619	10 21	85	27
663	671	676	676	675	673	669	665	663	0 24	695	637	9 29	58	28
644	652	657	660	668	660	649	652	650	4 30	682	592	10 38	90	29
650	657	665	667	668	669	665	671	645	23 40	678	610	11 40	68	30
657	657	663	664	676	681	677	658	653	22 5	689	619	11 55	70	31
650	659	667	666	663	657	653	650	638	-	689	588	-	100.1	Mean
655	660	662	662	662	661	659	657	643	-	668	604	-	63.6	Mean *
643	648	663	659	648	635	628	620	613	-	717	522	-	195.4	Mean **

18000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
653	660	665	674	668	669	668	665	649	19 40	679	608	12 57	71	1
645	660	669	675	669	663	656	665	647	19 13	677	596	13 30	81	2
713	737	695	653	652	651	651	647	651	17 9	780†	620	14 11	160	3 **
647	646	639	648	648	649	651	651	636	0 26	686	600	1 5	86	4
663	673	671	671	650	635	626	643	644	17 0	676	621	22 40	55	5
631	638	658	669	667	639	647	626	633	5 52	689	580	14 38	109	6 **
635	646	650	657	655	654	650	651	631	19 6	658	588	8 30	70	7
631	640	650	668	665	667	659	666	638	19 39	680	598	10 10	82	8
653	661	668	671	673	669	673	660	650	13 52	692	606	9 6	86	9
639	647	659	656	662	667	667	659	642	21 50	671	605	12 21	66	10
664	664	667	671	672	674	671	671	652	19 10	676	608	10 24	68	11 *
659	671	656	678	661	663	663	660	650	19 26	689	596	14 54	93	12
639	638	654	658	659	663	662	647	630	4 23	682	565	11 32	117	13 **
642	655	647	659	658	652	652	647	636	19 26	669	606	12 39	63	14
638	647	655	664	676	652	659	655	641	20 17	680	609	10 56	71	15
640	646	658	662	658	658	656	659	644	18 55	662	608	10 50	54	16
659	659	661	665	666	669	666	665	647	21 17	669	598	11 45	71	17 *
638	647	659	663	666	666	663	664	647	21 21	675	600	13 11	75	18
646	651	654	654	655	654	654	656	647	3 19	681	610	10 6	71	19
659	642	653	650	652	649	654	646	645	16 1	664	616	14 47	48	20
637	620	642	650	653	650	646	646	636	4 9	679	585	10 20	94	21
653	652	656	660	662	661	662	655	646	21 11	666	623	8 46	43	22 *
651	655	659	661	662	662	661	658	651	20 55	664	635	8 50	29	23 *
650	657	661	667	668	668	664	662	649	19 54	670	613	12 46	57	24 *
674	669	673	674	661	664	656	652	653	19 14	683	613	11 58	70	25
678	666	673	666	670	669	669	668	650	16 26	683	606	10 40	77	26
653	667	678	662	671	679	661	654	646	21 12	690	594	10 50	96	27
653	658	665	673	666	662	664	665	642	19 30	678	571	10 40	107	28
646	655	652	710	721	640	640	645	647	20 9	778	610	21 57	168	29
638	648	657	647	644	638	635	635	612	16 33	679	553†	9 10	126	30 **
668	682	686	637	639	659	635	636	627	18 18	772	568	13 20	204	31 **
652	657	661	664	663	658	656	654	643	-	686	600	-	86.1	Mean
655	657	661	665	666	667	665	662	649	-	669	615	-	53.6	Mean *
658	669	670	653	652	650	646	638	631	-	720	577	-	143.2	Mean **

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

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	644	645	629	639	638	620	616	614	598	590	589	597	607	618	606	616	
2	661	649	641	645	648	654	603	613	627	623	606	594	599	594	643	654	
3 **	575	557	572	593	599	591	598	582	559	502	533	507	564	606	644	764	
4 **	591	591	581	577	570	592	587	578	564	553	551	559	565	618	720	776	
5	451	324	393	490	393	471	471	465	462	462	469	476	489	527	555	572	
6	591	588	589	588	589	578	586	581	562	543	551	569	566	602	605	623	
7	615	619	615	617	609	613	607	598	584	580	577	586	588	594	598	600	
8 *	627	627	627	624	622	621	618	610	600	590	584	588	596	618	629	629	
9	641	640	644	645	644	634	625	626	610	591	585	578	590	590	607	628	
10	642	640	640	636	634	629	626	610	600	600	601	604	601	606	613	626	
11 *	647	648	647	643	638	637	634	622	610	600	593	590	602	610	624	630	
12	658	647	648	644	642	640	631	622	617	608	603	609	618	632	634	642	
13 **	675	713	618	628	618	585	478	361	319	212	400	458	436	444	448	474	
14	583	583	583	588	595	596	596	583	554	530	537	564	568	571	578	561	
15	618	613	633	628	619	618	614	605	592	578	568	566	580	591	608	616	
16	619	625	642	649	636	640	643	637	625	612	597	592	592	601	618	630	
17	649	649	647	644	649	649	644	643	637	625	610	597	587	609	618	622	
18	656	663	664	653	652	649	647	640	628	613	604	606	620	621	633	638	
19 *	654	653	654	653	651	650	650	646	633	622	617	614	622	628	633	641	
20 *	654	655	653	653	654	654	654	651	639	628	614	609	617	626	634	642	
21	669	668	664	665	670	666	664	657	644	631	630	642	588	579	559	609	
22	593	605	600	614	633	592	566	585	576	579	580	578	592	617	597	632	
23 **	526	535	535	541	466	441	469	401	418	401	417	452	492	589	581	558	
24	608	586	576	586	592	576	594	590	574	552	551	550	554	572	569	574	
25	630	628	634	629	620	625	632	604	591	589	576	567	576	576	601	607	
26	646	641	637	637	637	633	637	636	621	604	597	591	589	600	613	609	
27 *	643	639	636	636	637	637	638	636	625	615	602	599	603	613	624	623	
28	644	642	641	641	666	661	641	628	617	599	584	582	592	607	623	630	
29 **	667	666	659	657	649	633	628	647	637	627	610	620	623	658	670	639	
30	542	556	563	587	565	575	585	593	611	564	550	547	567	587	595	574	
Mean	621	617	616	621	615	612	606	596	585	567	570	573	579	597	609	621	
Mean *	645	644	643	642	640	640	639	633	621	611	602	600	608	619	629	633	
Mean **	607	612	593	599	580	568	552	514	499	459	502	519	536	583	613	642	
OCTOBER																	
18000 γ + Tabular Quantities (in γ)																	
1 **	624	616	611	614	607	610	619	622	614	606	595	593	596	607	597	617	
2	631	631	627	633	630	634	631	628	623	618	612	612	614	624	624	631	
3	633	631	632	632	635	642	648	647	636	625	611	601	599	605	638	635	
4	638	631	638	633	640	644	638	632	623	612	600	589	595	611	626	638	
5	660	645	644	645	644	642	642	638	627	618	613	619	623	629	637	647	
6 *	652	645	648	650	648	648	645	645	637	627	618	611	611	621	631	638	
7 *	661	660	659	660	661	658	662	661	654	641	625	619	622	632	641	641	
8 *	657	657	656	656	656	654	652	646	634	620	616	616	619	626	634	644	
9	662	660	659	660	656	655	656	658	648	632	613	602	609	618	624	629	
10	639	639	646	648	671	651	645	624	624	601	597	597	598	597	606	607	
11 **	651	638	637	647	652	644	640	654	643	627	613	586	584	588	596	598	
12	634	639	636	643	638	644	647	639	627	607	601	594	599	600	607	613	
13 **	633	616	621	623	617	630	642	637	629	617	600	588	587	590	593	610	
14 **	612	618	631	647	642	634	659	628	620	604	581	593	588	599	597	604	
15	625	621	620	620	622	622	624	620	611	596	584	567	563	573	598	606	
16 *	635	635	635	636	638	638	638	634	626	614	601	594	595	605	617	625	
17	655	655	658	658	658	662	661	657	646	631	621	615	605	616	631	633	
18 *	665	659	654	654	654	655	655	655	652	642	625	612	614	621	629	634	
19	657	658	658	658	659	660	663	662	661	647	624	606	610	616	625	633	
20	651	649	654	659	657	651	651	650	642	628	617	609	614	614	626	636	
21 **	630	634	637	642	645	650	649	650	633	615	605	600	600	610	620	648	
22	613	609	613	621	626	629	626	623	618	606	593	585	595	600	607	611	
23	648	646	622	628	632	636	637	638	627	616	602	592	590	599	609	619	
24	641	641	641	640	644	646	649	650	637	625	611	606	600	612	620	625	
25	649	653	652	648	649	650	652	650	639	621	606	604	608	613	621	624	
26	648	644	642	641	643	649	652	657	656	643	628	616	616	621	628	638	
27	658	653	654	656	658	658	660	660	654	647	634	627	611	613	637	649	
28	656	661	649	645	645	645	646	642	637	626	611	604	611	620	633	640	
29	658	657	641	640	638	644	645	650	637	625	615	603	604	608	623	636	
30	639	638	644	645	642	645	647	627	624	608	591	584	587	594	604	621	
31	652	652	652	652	652	655	657	657	651	641	628	625	608	612	624	628	
Mean	644	642	641	643	644	645	646	643	635	622	609	602	602	609	619	628	
Mean *	654	651	650	651	651	651	650	648	641	629	617	610	612	621	630	636	
Mean **	630	624	627	635	633	634	642	638	628	614	599	592	591	599	601	615	

* 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)														
SEPTEMBER														
										h m	h m	γ		
624	637	646	651	656	654	654	668	627	23 20	670	574	9 51	96	1
656	656	651	656	674	624	561	575	629	20 27	744	523	23 39	221	2
674	637	549	568	584	588	589	583	588	15 19	929	460	11 26	469	3 **
812	816	576	529	527	519	582	561	604	17 35	1049†	417	21 57	632	4 **
590	579	585	589	597	630	624	589	511	21 52	668	238	2 8	430	5
603	605	607	598	607	612	616	619	591	15 50	653	541	12 38	112	6
619	626	626	634	632	635	633	630	610	21 46	640	573	10 6	67	7
631	634	635	640	644	647	645	640	622	21 57	652	581	10 21	71	8 *
630	636	643	644	645	643	643	643	625	2 47	651	568	11 26	83	9
641	646	638	647	654	643	646	646	628	17 20	661	596	10 29	65	10
638	639	647	646	641	645	648	653	631	24 0	663	585	10 52	78	11 *
642	641	644	649	653	658	673	669	639	23 16	683	597	10 40	86	12
506	554	564	575	580	589	586	586	517	1 9	778	79†	9 26	699	13 **
568	585	598	605	614	606	616	624	583	23 18	653	514	9 7	139	14
622	625	629	637	634	638	634	633	612	21 48	649	561	11 14	88	15
638	643	642	652	649	650	650	653	631	3 2	665	582	11 13	83	16
632	629	648	662	663	663	663	663	638	19 32	671	584	12 20	87	17
643	652	659	650	658	655	657	651	642	2 7	673	601	11 3	72	18
642	649	649	653	654	654	654	657	643	23 50	658	608	11 44	50	19 *
657	653	658	651	656	667	668	666	646	21 39	671	606	11 26	65	20 *
642	633	614	603	571	600	597	595	628	17 0	691	535	14 17	156	21
647	558	562	572	578	576	521	551	588	16 4	807	484	22 3	323	22
570	599	584	558	599	588	590	580	520	2 38	672	334	4 54	338	23 **
590	597	609	625	629	628	627	632	589	19 56	641	535	10 39	106	24
616	620	626	630	635	640	637	640	614	23 44	647	553	11 0	94	25
609	621	632	642	649	650	650	649	626	21 41	652	583	12 21	69	26
620	624	639	646	648	649	651	649	631	22 34	656	595	11 40	61	27 *
634	640	649	646	646	649	650	652	632	4 47	674	576	10 56	98	28
645	681	521	554	506	472	458	456	608	17 15	859	393	23 20	466	29 **
581	594	598	600	607	621	652	634	585	22 16	670	487	0 0	183	30
627	630	618	620	623	623	623	622	608	-	702	515	-	186.2	Mean
638	640	646	647	649	652	653	653	635	-	660	595	-	65.0	Mean *
641	657	559	557	559	551	561	553	567	-	857	337	-	520.8	Mean **
18000 γ + Tabular Quantities (in γ)														
OCTOBER														
										h m	h m	γ		
623	633	644	610	599	607	627	633	614	18 19	650	590	14 29	60	1 **
629	637	643	645	648	641	628	647	630	23 34	655	609	10 53	46	2
619	640	635	640	640	639	629	634	630	18 33	656	594	12 12	62	3
642	635	630	636	644	635	645	653	630	24 0	670	584	11 19	86	4
642	638	640	659	649	650	652	652	640	19 16	673	608	10 44	65	5
642	645	649	652	654	659	660	660	642	22 52	662	610	12 9	52	6 *
649	655	661	665	670	667	663	660	652	20 6	676	615	11 35	61	7 *
648	656	662	665	665	665	665	665	647	21 1	668	614	11 57	54	8 *
638	636	643	644	650	651	654	645	642	21 48	668	599	11 11	69	9
610	630	641	637	653	636	634	641	628	4 10	682	590	12 57	92	10
596	608	615	622	632	636	630	630	624	4 6	661	579	12 23	82	11 **
622	631	625	625	627	634	637	633	625	3 3	649	591	11 46	58	12
623	631	638	641	638	621	610	620	619	5 43	648	583	14 29	65	13 **
602	584	598	597	593	592	617	637	612	5 37	673	567	10 10	106	14 **
612	617	625	626	630	628	642	638	612	22 47	649	560	11 57	89	15
636	642	651	653	657	657	657	655	632	21 57	660	590	12 10	70	16 *
642	649	658	661	663	665	666	662	647	22 47	669	598	12 12	71	17
643	650	660	659	655	655	656	655	646	18 47	669	610	11 48	59	18 *
642	656	661	667	654	643	646	649	646	19 35	670	602	11 20	68	19
643	654	645	633	639	631	629	629	638	3 37	662	606	11 20	56	20
640	650	656	667	668	625	607	571	631	22 43	709†	551†	23 40	158	21 **
614	628	636	639	638	630	622	629	617	20 16	647	580	0 0	67	22
628	636	642	646	661	652	632	637	628	0 52	680	585	12 3	95	23
632	640	644	635	649	653	654	651	635	22 0	656	596	12 44	60	24
635	645	653	664	661	664	661	669	641	23 13	675	595	10 47	80	25
646	651	658	658	664	663	665	660	645	22 2	670	611	11 20	59	26
642	652	658	661	666	643	650	657	648	20 19	672	596	12 58	76	27
643	658	644	652	657	654	655	654	641	17 37	669	596	11 23	73	28
646	651	654	652	650	642	641	639	637	20 17	665	593	12 55	72	29
632	639	645	657	654	656	651	651	630	19 53	666	576	11 40	90	30
630	642	645	652	649	656	654	654	643	21 37	659	592	12 57	67	31
632	639	644	646	648	644	643	644	634	-	666	593	-	73.2	Mean
644	650	657	659	660	661	660	659	644	-	667	608	-	59.2	Mean *
617	621	630	627	626	616	618	618	620	-	668	574	-	94.2	Mean **

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

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	654	654	653	650	661	663	652	649	645	632	617	609	618	624	628	630	
2	655	655	651	649	655	657	656	654	655	646	635	627	627	635	636	643	
3	631	646	631	636	643	648	652	646	636	626	607	607	603	602	603	619	
4 *	652	651	648	646	647	649	650	646	635	624	617	615	619	624	630	639	
5 *	647	648	653	655	655	655	656	652	644	636	628	627	631	637	641	645	
6	653	653	655	656	660	663	665	664	657	643	631	627	632	638	647	643	
7	554	565	611	597	607	621	627	623	619	606	596	591	581	581	577	589	
8	630	630	631	635	640	639	635	642	630	601	601	593	585	577	592	599	
9 **	631	621	621	630	642	651	656	637	623	614	600	592	590	588	587	600	
10	619	622	623	622	627	643	646	639	619	612	597	592	597	602	605	606	
11	628	633	630	642	644	639	647	642	631	610	590	598	602	593	607	606	
12	645	642	634	635	637	635	639	640	633	609	607	603	592	593	600	602	
13	627	631	633	634	635	640	642	640	636	623	614	610	604	616	616	624	
14	659	655	651	648	646	646	654	654	652	642	640	642	639	635	632	639	
15	634	634	645	638	642	641	642	634	636	630	618	614	621	627	628	632	
16	644	650	650	646	649	650	649	648	642	634	622	619	617	625	625	633	
17 *	660	655	654	653	651	656	658	658	650	638	632	624	625	628	629	638	
18	675	647	638	647	646	651	654	670	649	639	618	599	592	579	581	596	
19	632	632	627	629	638	643	639	630	625	622	614	608	606	610	617	622	
20	641	642	645	652	655	660	659	654	651	646	634	618	615	617	622	624	
21 *	650	650	650	651	654	655	654	655	653	643	634	629	627	631	637	641	
22 *	644	646	647	649	651	658	659	659	659	655	648	643	640	641	647	650	
23	657	655	656	655	658	663	663	660	662	658	650	648	646	650	649	653	
24	663	657	655	655	657	663	666	662	662	652	647	646	650	649	652	655	
25 **	658	659	667	659	649	654	658	647	641	642	631	622	620	622	626	637	
26 **	646	631	626	622	619	631	646	644	635	638	647	644	642	641	655	620	
27 **	604	588	561	565	561	586	584	598	598	596	593	576	585	595	601	596	
28 **	611	612	628	606	606	608	607	612	618	596	594	600	593	596	597	612	
29	621	628	625	621	630	636	626	621	614	602	596	604	619	618	626	624	
30	643	645	642	629	634	634	628	628	630	628	624	624	630	637	646	646	
Mean	639	638	638	637	640	645	646	644	638	628	619	615	615	617	621	625	
Mean *	651	650	650	651	652	655	655	654	648	639	632	628	628	632	637	643	
Mean **	630	622	621	616	615	626	630	628	623	617	613	607	606	608	613	613	
DECEMBER																	
18000 γ + Tabular Quantities (in γ)																	
1 **	651	647	639	620	630	646	660	656	646	643	635	625	621	620	617	616	
2	636	645	649	640	642	647	646	641	642	630	622	608	606	608	607	614	
3	642	641	643	654	655	655	650	652	645	627	611	608	606	608	620	625	
4	644	641	646	650	651	654	644	650	649	639	627	618	617	623	628	634	
5	632	645	635	638	649	668	664	647	640	627	621	616	613	609	615	616	
6 **	630	625	623	622	634	639	644	648	637	621	619	595	597	616	610	602	
7	637	639	635	635	646	648	657	656	637	621	623	612	602	593	618	625	
8	643	633	635	636	639	646	652	655	654	638	629	624	628	631	638	638	
9	654	641	642	648	650	652	656	656	649	640	635	625	614	617	613	618	
10	645	644	647	668	650	650	651	652	647	638	631	622	618	618	615	610	
11 **	626	635	645	629	639	644	649	622	646	646	634	626	623	630	634	626	
12 **	614	618	615	613	615	614	631	636	635	623	618	620	619	625	623	627	
13	647	639	638	635	635	637	643	646	650	638	605	629	636	635	635	609	
14	646	646	647	639	646	643	645	641	638	635	629	629	629	634	638	646	
15	648	651	649	650	651	661	668	666	655	638	638	644	639	650	632	617	
16	654	650	646	646	645	650	653	653	651	645	639	636	637	641	643	647	
17	642	642	655	667	659	642	642	651	654	639	630	630	631	636	641	646	
18	635	634	641	653	651	651	651	651	654	647	636	624	626	639	641	640	
19	647	644	645	646	654	658	655	658	663	661	665	653	646	645	646	650	
20	605	618	623	633	643	648	628	638	640	633	619	613	617	624	629	636	
21	635	641	642	645	643	669	660	644	645	640	626	622	624	629	635	641	
22 *	645	645	649	644	641	640	644	644	644	635	620	609	609	616	626	636	
23 *	653	648	648	649	649	653	654	652	650	644	633	626	626	631	634	645	
24	662	656	654	657	662	666	662	664	664	657	644	635	640	645	650	654	
25	660	656	656	650	660	666	667	650	653	650	635	629	634	636	645	652	
26	650	646	645	639	652	664	655	646	638	625	624	630	637	625	622	620	
27 *	646	650	648	646	646	646	644	644	641	638	631	623	622	628	628	638	
28 *	652	651	649	645	647	646	643	644	644	642	637	633	633	638	641	645	
29 *	658	658	660	661	661	664	661	661	661	655	642	638	637	642	646	648	
30	642	648	647	643	646	651	654	658	648	640	633	627	608	592	612	632	
31 **	651	644	628	647	670	665	653	621	620	590	594	566	558	560	555	572	
Mean	643	643	643	643	647	651	651	648	646	637	629	622	621	624	627	630	
Mean *	651	650	651	649	649	650	649	649	648	643	633	626	625	631	635	642	
Mean **	634	634	630	626	638	642	647	637	637	625	620	606	604	610	608	609	

* 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)														
NOVEMBER														
										h m	h m		γ	
641	645	650	653	654	657	656	657	644	23 0	665	608	11 20	57	1
648	653	658	659	658	662	656	638	649	21 24	666	623	12 25	43	2
631	633	634	644	651	651	650	646	632	6 12	656	597	12 31	59	3
647	655	651	651	643	643	640	646	640	17 25	659	614	11 20	45	4 *
655	660	665	664	660	657	657	655	649	18 33	667	615	12 10	52	5 *
647	648	680	642	593	574	551	574	637	18 23	718 [†]	526	22 37	192	6
602	608	609	622	630	630	631	630	604	5 57	643	510 [†]	0 10	133	7
621	636	635	631	626	619	606	631	619	23 27	657	574	13 27	83	8
618	621	614	612	605	606	623	617	617	6 23	658	575	12 47	83	9 **
623	623	634	621	633	636	635	642	622	23 35	657	587	11 56	70	10
617	623	627	622	616	633	636	628	623	6 40	657	584	13 20	73	11
597	613	630	633	643	642	642	633	624	0 58	656	576	13 0	80	12
626	626	625	640	647	649	651	659	631	23 46	671	599	12 13	72	13
629	633	633	654	655	650	633	635	644	19 53	674	615	16 48	59	14
633	645	643	647	646	654	654	645	637	21 55	663	608	11 34	55	15
642	647	644	654	653	658	655	658	642	19 49	658	614	12 3	44	16
650	655	658	658	659	658	659	666	649	24 0	675	619	11 53	56	17 *
610	626	629	644	645	643	635	633	631	0 30	678	560	13 56	118	18
633	641	646	650	647	644	647	642	631	22 8	656	603	12 39	53	19
630	643	650	657	654	658	643	648	642	21 8	668	606	12 58	62	20
644	650	655	658	660	653	663	645	648	22 18	667	625	12 45	42	21 *
646	657	658	660	666	664	660	658	653	20 28	666	638	13 33	28	22 *
661	674	675	677	679	676	674	672	661	23 20	686	642	13 31	44	23
659	660	661	663	659	664	667	658	658	22 33	674	640	11 40	34	24
631	608	598	589	624	626	635	636	635	2 22	673	578	19 24	95	25 **
634	580	575	609	617	595	568	604	624	7 0	674	530	17 38	144	26 **
625	606	616	596	595	598	594	606	593	16 31	634	537	4 2	97	27 **
620	624	618	616	601	620	613	622	610	2 13	644	584	12 31	60	28 **
634	639	643	649	653	652	651	659	629	23 24	667	592	10 51	75	29
653	651	649	651	653	653	653	654	640	17 26	658	622	11 15	36	30
634	636	639	641	641	641	638	640	634	-	665	593	-	71.5	Mean
648	655	657	658	658	655	656	654	648	-	667	622	-	44.6	Mean *
626	608	604	604	608	609	607	617	616	-	657	561	-	95.8	Mean **
18000 γ + Tabular Quantities (in γ)														
DECEMBER														
										h m	h m		γ	
625	632	645	646	642	629	627	631	635	6 56	677	613	15 43	64	1 **
619	625	625	637	643	644	639	642	632	1 33	656	597	14 44	59	2
629	629	635	638	647	643	643	644	635	23 53	663	598	12 58	65	3
638	646	654	654	653	642	627	623	640	0 0	662	613	12 9	49	4
623	630	610	598	602	623	615	640	628	5 48	676	587	20 3	89	5
610	617	619	623	616	617	622	627	621	7 23	651	586	12 3	65	6 **
632	635	630	623	635	637	642	639	632	7 37	661	579	12 56	82	7
640	643	651	647	654	648	646	636	641	8 5	657	619	11 41	38	8
611	630	631	641	635	626	637	646	636	0 10	665	599	16 5	66	9
607	615	605	599	598	604	622	618	628	3 10	677	592	20 8	85	10
635	639	627	603	626	627	592	598	629	6 2	670	575	22 49	95	11 **
635	640	632	623	629	636	639	654	626	23 46	671	597	0 23	74	12 **
629	637	641	643	641	646	646	646	637	8 10	656	593	15 29	63	13
653	655	655	657	654	650	647	645	644	19 7	661	618	12 48	43	14
634	642	636	637	644	648	648	645	645	6 37	671	590	15 0	81	15
648	654	653	641	652	643	663	640	647	22 32	687 [†]	628	19 10	59	16
650	651	633	637	643	648	650	658	645	4 8	682	619	18 20	63	17
646	650	653	654	655	655	653	653	646	21 16	658	618	11 51	40	18
651	654	664	632	612	627	625	612	646	9 40	679	598	24 0	81	19
641	645	642	636	639	655	644	637	633	21 23	668	595	0 6	73	20
647	645	648	654	652	645	644	648	643	5 53	679	620	11 40	59	21
642	649	653	654	658	658	657	656	641	20 43	658	606	12 2	52	22 *
653	658	662	665	667	666	664	663	650	20 40	667	625	12 30	42	23 *
657	660	663	656	653	649	657	659	655	5 30	667	629	11 50	38	24
652	656	646	620	629	625	620	634	645	6 10	675	605	21 58	70	25
630	638	637	641	640	648	648	650	640	5 26	670	606	14 3	64	26
644	648	653	651	645	655	656	653	643	23 7	665	617	12 10	48	27 *
652	657	662	665	660	654	658	662	648	19 57	666	630	12 20	36	28 *
656	657	664	667	665	647	637	636	653	19 51	667	634	23 8	33	29 *
632	639	646	652	655	658	656	649	640	7 28	670	590	13 11	80	30
581	571	560	542	544	549	547	561	594	3 53	675	531 [†]	20 25	144	31 **
636	640	640	637	638	639	638	639	638	-	668	603	-	64.5	Mean
649	654	659	660	659	656	654	654	647	-	665	622	-	42.2	Mean *
617	620	617	607	611	612	605	614	621	-	669	580	-	88.4	Mean **

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

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	443	444	445	445	444	444	443	439	435	434	431	427	433	433	437	446	
2	443	443	443	443	443	443	442	437	433	423	416	417	419	427	432	437	
3	467	465	463	461	459	457	455	453	451	449	437	436	435	434	443	451	
4	447	449	449	450	450	451	449	446	441	437	429	427	432	435	441	445	
5 *	443	443	443	443	443	444	443	443	440	440	433	429	426	428	433	436	
6	440	440	441	442	441	439	438	436	438	440	431	426	423	420	427	437	
7	435	436	436	436	436	435	435	435	433	433	423	419	414	421	423	431	
8	437	436	434	433	433	432	432	432	433	432	421	422	420	425	426	430	
9	445	441	439	441	439	440	441	440	440	436	428	425	426	430	441	461	
10 **	441	438	431	430	434	434	418	416	421	422	423	422	422	426	438	452	
11	447	441	441	442	443	444	444	443	441	441	442	443	440	436	438	443	
12	448	445	445	445	439	441	441	440	439	438	429	426	425	428	431	431	
13 *	439	438	438	438	437	437	436	436	436	438	437	437	436	435	438	441	
14 *	441	441	440	439	439	438	437	434	436	438	430	432	434	431	436	439	
15	437	437	437	437	436	435	434	432	432	432	427	422	422	426	433	441	
16	438	435	436	436	437	435	434	432	431	432	424	419	418	424	433	441	
17	437	437	436	436	437	437	436	434	434	432	426	421	418	424	435	442	
18 *	434	434	435	436	437	437	436	434	433	429	420	416	413	416	426	434	
19	433	434	435	436	437	437	437	435	430	425	416	408	405	411	425	436	
20 *	440	439	438	437	439	439	439	439	436	433	423	417	415	415	420	432	
21 **	431	431	431	430	429	429	431	433	433	432	422	420	419	419	427	450	
22 **	499	451	377	458	458	445	468	476	481	480	476	474	473	471	470	472	
23 **	464	463	461	461	460	459	458	458	462	453	449	453	455	456	461	474	
24	464	460	459	454	451	450	455	457	461	463	456	449	446	445	450	456	
25	466	471	477	465	459	458	459	449	457	459	458	459	459	456	458	460	
26	456	455	455	454	453	454	452	451	455	455	453	451	442	438	447	459	
27	453	452	451	451	448	449	449	448	449	445	440	440	439	441	448	456	
28	455	454	455	455	451	450	447	446	447	446	445	445	442	436	442	448	
29	453	453	453	452	452	450	448	446	444	438	437	439	433	434	451	472	
30 **	465	436	437	441	432	425	425	433	433	434	439	444	441	451	463	477	
31	460	460	460	460	458	455	452	451	446	444	445	447	444	443	448	455	
Mean	448	445	443	445	444	443	442	441	441	440	434	433	431	433	439	448	
Mean *	439	439	438	439	439	439	438	437	436	436	429	426	425	425	431	436	
Mean **	460	444	427	444	443	438	440	443	446	444	442	443	442	445	452	465	
FEBRUARY																	
43000 γ + Tabular Quantities (in γ)																	
1	456	455	456	455	454	453	453	451	448	444	441	444	441	437	443	449	
2	449	451	452	453	452	449	449	446	442	441	439	437	430	429	429	438	
3	452	452	452	452	452	450	450	449	444	441	433	425	419	419	429	434	
4 **	455	454	454	455	453	451	451	449	445	442	436	432	434	447	466	473	
5 **	446	451	446	430	410	410	422	430	436	435	434	438	446	466	481	483	
6	457	453	454	456	454	454	453	451	447	443	441	440	438	442	449	455	
7 *	451	451	451	451	452	453	453	454	451	445	440	437	438	434	438	444	
8	457	456	454	453	450	450	450	446	441	441	439	439	437	435	438	443	
9	451	449	450	447	446	444	445	445	446	446	439	433	427	430	440	445	
10 *	457	454	450	448	446	446	446	443	439	435	435	433	433	435	438	438	
11	445	446	443	441	439	439	439	439	443	446	445	441	443	444	444	449	
12	449	447	447	441	433	428	431	435	439	443	450	452	454	459	462	462	
13 **	451	446	447	447	444	432	426	428	432	433	436	436	442	451	461	472	
14	455	455	454	453	453	452	452	451	453	451	449	445	447	447	451	454	
15	449	450	450	451	451	451	447	444	440	436	432	424	430	436	438	444	
16	445	446	448	447	447	447	445	443	440	434	428	424	424	427	436	442	
17	442	443	443	441	443	443	442	440	438	436	431	423	426	429	437	448	
18	462	455	450	447	443	440	441	437	435	433	431	424	425	427	431	441	
19	451	451	451	453	453	454	450	444	446	449	448	446	442	444	444	447	
20	450	452	450	453	453	454	452	454	454	450	443	439	444	448	448	450	
21 **	449	449	446	436	435	442	447	439	435	435	435	431	428	434	444	457	
22	450	440	442	446	453	451	451	452	453	449	444	440	440	445	446	454	
23	456	453	449	449	446	446	444	442	442	444	442	438	438	443	450	455	
24 **	453	411	425	397	377	370	383	414	427	438	446	455	466	471	472	469	
25	462	464	462	459	455	456	455	455	454	446	441	438	441	444	447	451	
26 *	456	456	455	454	452	451	450	447	448	447	438	430	428	433	439	443	
27 *	453	454	453	451	447	447	445	444	446	447	442	437	434	435	441	445	
28 *	449	450	450	450	450	449	447	446	447	445	438	434	433	435	440	446	
Mean	452	450	449	447	444	443	444	444	443	442	439	436	437	440	446	451	
Mean *	453	453	452	451	449	449	448	447	446	444	439	434	433	434	439	443	
Mean **	451	442	444	433	424	421	426	432	435	437	437	438	443	454	465	471	

* 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				
454	454	451	448	446	444	443	443	442	16	40	454	424	11	24	30	1
444	446	444	450	482	489	486	478	444	20	42	501	409	11	9	92	2
455	455	455	453	452	451	450	448	451	0	1	472	429	13	2	43	3
451	452	449	448	448	446	445	444	444	17	20	451	423	11	15	28	4
442	443	443	444	444	443	441	441	440	20	1	446	423	12	37	23	5 *
441	442	440	440	440	439	436	436	436	17	4	441	418	13	0	23	6
435	438	437	439	440	439	438	437	433	19	50	439	410	12	37	29	7
438	443	450	457	462	460	457	449	437	21	1	466	413	12	2	53	8
457	455	456	461	456	453	449	443	443	15	16	466	421	11	21	45	9
471	475	463	466	466	459	450	449	440	16	41	482	408	7	2	74	10 **
447	449	447	448	450	451	452	451	444	22	34	451	433	14	1	18	11
438	440	439	441	441	441	442	442	438	0	0	450	424	12	35	26	12
442	443	440	438	439	439	439	439	438	17	24	444	432	13	4	12	13 *
442	441	438	438	438	437	437	437	437	16	50	442	429	13	24	13	14 *
445	443	441	443	440	438	438	441	435	16	40	446	418	11	41	28	15
447	446	443	441	441	438	438	436	435	17	2	447	416	12	32	31	16
444	441	438	439	439	437	434	434	435	16	30	444	416	12	44	28	17
439	441	439	438	437	435	433	432	432	17	0	440	410	13	0	30	18 *
446	446	448	458	455	452	447	442	435	19	42	458	402	12	48	56	19
437	437	437	438	439	437	435	432	433	0	25	440	412	12	7	28	20 *
467	495	553	561	613	655	521	462	466	22	10	792†	230	22	32	562	21 **
472	470	470	471	472	470	468	467	466	1	30	517	166†	2	1	351	22 **
479	479	483	478	476	478	475	466	465	18	30	500	443	11	0	57	23 **
458	457	459	481	471	468	470	486	459	19	12	499	440	13	17	59	24
463	461	459	463	463	471	457	456	461	2	27	483	442	7	27	41	25
465	460	459	459	459	460	463	457	455	16	51	468	435	12	56	33	26
459	456	454	455	457	458	456	455	450	16	49	460	437	12	2	23	27
450	449	453	452	452	455	456	453	449	22	16	457	433	13	45	24	28
480	485	505	524	525	501	493	488	465	20	7	539	430	12	58	109	29
477	472	470	474	468	464	464	464	451	19	10	480	418	5	14	62	30 **
460	463	462	465	462	460	460	458	455	22	26	467	441	12	49	26	31
453	454	456	458	460	460	454	451	446	-	476	409	-	-	66.4	Mean	
440	441	439	439	439	438	437	436	436	-	442	421	-	-	21.2	Mean *	
473	478	488	490	499	505	476	462	458	-	554	333	-	-	221.2	Mean **	

43000 γ + Tabular Quantities (in γ)													FEBRUARY			
										h m	h m	γ				
452	452	453	456	453	452	450	449	450	19	44	458	433	13	22	25	1
446	453	461	459	458	455	453	450	447	18	36	464	424	14	18	40	2
442	449	452	454	465	455	456	456	445	20	40	472	415	13	9	57	3
480	492	488	491	476	474	469	446	459	17	25	502	422	23	24	80	4 **
477	475	472	473	475	473	463	460	451	15	4	496	403	5	14	93	5 **
456	457	459	459	459	457	455	453	452	18	52	460	436	12	59	24	6
447	450	454	456	458	458	458	457	449	21	0	459	433	13	28	26	7 *
447	449	450	452	454	453	452	451	447	0	29	457	433	13	10	24	8
445	444	447	454	455	457	456	456	446	21	26	453	425	12	46	28	9
439	441	443	444	446	446	446	446	443	0	18	459	431	11	50	28	10 *
462	459	459	457	455	453	452	450	447	16	40	473	435	7	46	38	11
457	452	450	447	445	444	445	447	447	15	35	463	424	5	54	39	12
474	466	463	498	471	462	459	457	451	19	19	516†	424	7	10	92	13 **
455	456	455	453	451	448	449	448	452	17	30	456	443	11	46	13	14
452	450	453	453	451	453	449	445	445	21	59	456	421	11	28	35	15
454	463	461	459	453	447	447	447	444	17	30	464	422	12	41	42	16
450	452	457	458	459	464	462	463	445	21	12	465	425	12	29	40	17
451	458	467	465	457	467	463	454	446	18	50	477	419	11	47	58	18
455	469	472	475	472	469	467	450	454	19	40	490	438	12	46	52	19
453	456	459	459	457	459	452	450	452	21	38	465	436	11	50	29	20
469	475	469	472	471	470	468	458	450	20	11	486	421	13	3	65	21 **
470	467	462	469	457	456	458	452	452	16	50	474	434	1	30	40	22
463	467	482	458	467	471	473	467	454	18	24	497	435	11	51	62	23
467	466	460	459	460	461	460	461	440	14	0	474	364†	6	10	110	24 **
454	453	452	453	454	454	454	455	452	1	55	466	436	11	38	30	25
447	450	449	449	449	450	451	453	447	1	50	456	427	12	10	29	26 *
445	445	447	448	450	448	448	449	446	1	55	454	431	12	22	23	27 *
447	446	446	447	447	447	447	447	445	3	30	449	430	12	14	19	28 *
456	458	459	460	458	457	456	453	449	-	470	426	-	-	44.3	Mean	
445	446	448	449	450	450	450	450	446	-	455	430	-	-	25.0	Mean *	
473	475	470	479	471	468	464	456	450	-	495	407	-	-	88.0	Mean **	

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

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		449	449	449	449	449	448	444	441	442	440	438	431	428	432	435	440
2 **		455	453	463	430	406	327	324	352	408	434	439	453	478	503	576	570
3		463	462	451	458	463	468	468	469	467	467	465	459	457	460	471	475
4		463	459	453	446	447	449	452	456	459	452	444	440	440	448	457	457
5		458	453	454	458	459	458	459	458	457	453	447	448	444	446	449	457
6		456	445	450	455	456	457	455	453	450	442	441	440	430	434	448	465
7 *		458	456	454	453	453	456	458	462	459	454	449	439	434	437	449	463
8		462	452	454	455	457	458	457	452	449	440	437	427	427	431	437	443
9		447	449	450	449	444	437	435	439	447	448	440	432	427	431	440	453
10 **		453	451	450	448	436	529	434	434	433	439	430	428	445	475	522	558
11 *		491	482	479	476	475	473	470	470	464	459	451	445	444	447	452	459
12 *		466	465	462	457	456	455	452	454	455	454	453	456	459	459	459	463
13 *		461	460	459	459	457	456	456	459	459	450	439	432	432	440	449	460
14 *		460	459	458	458	456	456	456	460	460	453	440	436	434	436	444	452
15		451	453	451	449	447	447	447	449	451	444	431	421	419	424	431	445
16		455	439	439	446	449	452	452	453	454	447	433	430	433	443	455	461
17		463	460	457	456	459	458	455	458	454	444	428	421	422	429	446	459
18		452	453	454	452	453	454	455	456	455	445	434	423	431	444	450	457
19		453	452	451	452	454	454	454	459	454	441	427	419	418	422	429	439
20		444	442	443	445	449	445	443	447	447	435	428	418	415	418	427	438
21		447	448	451	451	447	444	447	452	451	444	430	417	408	411	423	445
22		457	454	454	455	454	452	450	452	445	437	427	424	427	437	447	459
23		436	438	438	433	439	447	450	456	457	451	437	431	430	434	441	452
24		451	447	443	443	445	448	453	458	451	444	435	427	429	432	439	448
25		452	451	447	429	413	403	418	441	447	439	440	443	447	458	455	461
26		459	456	455	454	454	452	454	461	458	450	439	424	424	431	447	456
27 **		434	439	445	445	441	443	449	451	447	435	427	419	419	424	435	449
28 **		410	410	413	434	452	415	383	394	415	419	437	443	451	457	462	475
29 **		462	463	458	455	453	451	451	455	447	439	435	427	430	433	455	535
30		464	452	446	447	455	460	465	469	460	453	448	440	438	443	454	468
31		454	457	457	459	455	446	453	455	452	446	438	424	426	437	448	462
Mean		454	452	451	450	449	448	445	449	450	445	438	433	434	441	453	465
Mean *		467	464	462	461	459	459	458	461	459	454	446	442	441	444	451	459
Mean **		443	443	446	442	438	433	408	417	430	433	434	434	445	458	490	517
APRIL																	
43000 γ + Tabular Quantities (in γ)																	
1		448	452	452	454	457	451	454	452	444	438	429	423	426	437	452	472
2		452	440	446	455	459	459	459	456	447	438	428	424	423	428	436	448
3		453	451	456	458	460	453	455	458	456	450	436	429	437	447	456	467
4		450	454	447	449	449	444	447	451	448	441	435	429	426	431	440	459
5 **		462	460	451	450	449	453	459	462	458	449	431	423	433	435	439	464
6		441	435	417	415	425	425	428	433	436	428	417	415	417	426	440	462
7 *		454	455	455	454	454	455	460	464	459	448	436	418	414	422	434	442
8		452	451	450	450	449	447	446	446	442	434	424	414	411	421	439	454
9		460	455	451	451	450	442	437	438	430	426	424	420	418	430	450	473
10 **		439	431	407	396	373	362	388	411	414	427	439	442	445	465	489	511
11		466	463	465	464	463	463	464	459	455	446	435	427	427	435	447	453
12		461	461	461	460	458	454	451	455	453	443	434	426	423	425	436	444
13 *		452	451	450	454	456	452	453	456	454	448	438	430	430	439	452	459
14 *		456	457	459	459	459	456	456	456	449	434	423	416	412	418	428	437
15		451	452	452	454	451	448	446	447	443	426	410	395	394	410	427	442
16		436	441	450	453	457	459	455	454	453	443	425	406	411	418	433	451
17 **		455	451	453	451	447	446	445	447	441	429	420	417	413	425	432	435
18 **		464	458	454	453	455	451	447	444	440	432	425	416	411	419	436	444
19 **		478	459	454	415	410	415	410	409	428	433	430	436	445	461	479	493
20		452	458	450	444	448	446	452	451	446	439	433	420	424	434	445	456
21		454	451	450	448	442	439	436	438	436	427	425	422	418	432	458	466
22 *		455	455	455	456	456	457	459	461	455	447	437	429	423	425	433	441
23		454	452	451	451	451	449	446	447	441	432	427	421	421	426	433	438
24		451	446	440	443	446	451	454	454	448	435	428	420	416	423	435	441
25 *		453	451	453	454	455	453	449	444	436	428	422	417	413	422	442	456
26		453	452	452	452	450	444	435	432	431	432	415	405	411	430	454	468
27		450	427	424	444	432	422	425	428	423	419	414	405	411	420	426	439
28		452	454	455	454	454	450	447	447	443	436	426	421	421	432	458	482
29		456	455	452	444	440	444	446	444	438	423	411	403	405	424	442	458
30		452	454	454	454	451	447	448	449	445	434	416	404	409	420	434	449
Mean		454	451	449	448	447	445	445	446	443	436	426	419	420	429	444	457
Mean *		454	454	454	455	456	455	455	456	451	441	431	422	418	425	438	447
Mean **		460	452	444	433	427	425	430	435	436	434	429	427	429	441	455	469

* 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		
452	459	479	475	467	459	460	464	449	18 49	487	428	12 12	59	1
528	511	545	550	536	542	479	451	467	14 50	598†	268†	6 2	330	2 **
490	499	490	484	475	474	463	461	469	17 3	512	442	2 27	70	3
463	464	463	461	461	464	461	457	455	21 24	466	436	11 50	30	4
472	480	480	473	466	461	464	458	459	18 0	483	442	13 16	41	5
482	481	470	470	472	468	462	459	456	17 12	487	425	12 50	62	6
478	474	464	462	463	466	466	466	457	16 47	482	431	12 48	51	7 *
450	458	461	462	470	467	464	460	451	20 41	471	425	12 53	46	8
461	474	466	465	466	463	460	458	449	17 57	477	425	12 36	52	9
568	562	554	522	515	503	500	506	483	16 10	580	422	11 24	158	10 **
463	463	466	466	466	466	466	466	465	0 0	498	442	12 25	56	11 *
465	463	460	459	459	460	460	461	459	1 29	464	450	10 47	14	12 *
475	481	483	480	472	468	466	462	459	18 0	484	430	11 48	54	13 *
455	455	454	452	450	450	451	453	452	7 37	462	433	12 44	29	14 *
455	458	461	463	456	449	451	453	446	19 17	464	418	12 30	46	15
464	467	473	480	476	472	464	461	454	19 32	501	429	11 50	72	16
476	488	475	465	459	458	455	451	454	17 13	494	419	11 50	75	17
464	465	462	459	458	456	451	451	451	17 15	464	421	11 34	43	18
453	464	465	467	459	454	454	451	448	19 43	471	417	12 7	54	19
452	456	457	456	454	455	447	447	442	21 54	461	411	12 3	50	20
462	488	513	527	514	494	484	470	457	19 15	531	407	13 13	124	21
474	491	491	485	468	466	466	454	455	17 50	499	421	12 15	78	22
468	475	470	462	461	462	458	454	449	17 14	477	428	12 12	49	23
452	454	457	461	465	455	452	454	448	20 45	473	425	11 46	48	24
466	465	461	460	460	459	458	458	447	16 44	467	398	5 25	69	25
466	473	470	468	465	466	462	448	454	17 30	473	419	11 46	54	26
454	460	478	482	486	497	447	447	448	21 43	507	411	11 58	96	27 **
476	470	464	461	459	458	459	460	441	16 10	479	373	6 52	106	28 **
543	535	550	512	488	482	474	469	471	16 1	573	419	13 33	154	29 **
476	476	471	467	465	465	463	463	459	17 37	478	437	2 0	41	30
481	492	491	483	475	462	459	458	457	17 56	494	418	11 44	76	31
474	477	479	475	471	468	462	459	455	-	492	418	-	73.8	Mean
467	467	465	464	462	462	462	462	458	-	478	437	-	40.8	Mean *
514	508	518	505	497	496	472	467	462	-	547	379	-	168.8	Mean **

43000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
493	500	505	490	477	470	463	455	458	18 10	510	421	11 23	89	1
458	466	477	473	464	462	466	459	451	19 4	480	422	12 25	58	2
483	492	495	491	473	472	471	444	460	18 54	502	428	11 30	74	3
477	484	484	485	480	471	471	465	455	19 59	490	425	12 50	65	4
474	468	470	465	461	462	464	461	454	15 57	482	421	11 4	61	5 **
472	470	465	461	460	459	458	455	440	16 42	473	407	3 13	66	6
448	452	452	452	454	452	452	452	447	7 17	465	413	12 21	52	7 *
464	470	473	476	481	479	468	465	450	21 51	484	410	12 20	74	8
472	475	484	488	484	473	467	456	452	19 30	488	416	12 31	72	9
533	531	507	488	475	470	468	466	449	17 0	542†	353†	5 20	189	10 **
457	461	462	461	461	463	463	460	455	22 49	468	422	11 58	46	11
455	467	479	471	464	462	459	455	452	18 6	481	422	12 25	59	12
465	466	464	459	456	456	454	454	452	17 10	467	428	12 12	39	13 *
442	447	448	446	447	447	447	449	444	3 10	458	411	12 10	47	14 *
454	463	470	467	466	458	440	456	443	18 44	469	392	12 10	77	15
465	483	483	473	467	462	462	459	450	18 2	494	406	11 50	88	16
437	437	441	448	455	455	466	458	442	23 37	497	410	12 27	87	17 **
460	476	509	502	487	476	467	476	454	18 21	520	409	13 7	111	18 **
504	516	525	508	498	483	468	454	459	18 37	529	396	7 6	133	19 **
468	477	469	469	465	462	460	458	451	17 29	479	419	11 43	60	20
471	477	481	471	465	461	460	452	449	18 37	485	417	12 30	68	21
447	459	470	465	459	458	456	455	451	18 33	470	422	12 50	48	22 *
441	447	450	453	455	458	455	455	444	21 9	460	420	12 16	40	23
461	462	460	455	453	454	455	457	445	17 55	464	415	12 32	49	24
456	462	466	466	460	456	456	455	447	18 37	468	412	12 30	56	25 *
460	467	471	475	469	461	460	456	447	19 57	479	402	11 43	77	26
447	454	460	457	456	456	453	453	435	18 15	460	403	11 33	57	27
499	502	506	496	487	468	459	458	459	18 10	512	417	12 4	95	28
468	474	471	462	458	456	452	452	445	17 3	474	399	11 53	75	29
458	467	469	473	468	455	451	446	446	19 7	476	402	11 32	74	30
466	472	476	472	467	463	460	457	450	-	484	411	-	72.9	Mean
452	457	460	458	455	454	453	453	448	-	466	417	-	48.4	Mean *
482	486	490	482	475	469	467	463	452	-	514	398	-	116.2	Mean **

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

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	**	447	445	439	437	426	422	422	425	427	419	411	410	414	424	438	448
2		451	448	448	446	447	446	444	446	440	435	426	413	409	419	434	444
3		448	446	446	446	445	445	445	444	438	425	410	399	396	407	424	443
4		454	454	452	452	454	458	460	456	448	434	420	411	408	417	434	450
5		-	-	-	-	-	-	-	-	-	-	419	411	405	411	420	421
6		442	441	441	436	434	438	441	440	438	428	417	409	405	417	431	441
7		446	446	448	449	451	449	448	448	446	442	434	420	409	417	429	441
8		450	448	448	448	448	451	449	445	440	426	412	401	400	411	421	429
9	**	437	438	431	421	416	420	422	429	434	431	421	420	416	425	436	442
10		448	449	448	448	448	447	447	444	438	435	425	413	413	418	429	439
11		441	444	445	445	445	447	445	443	434	425	417	410	408	412	421	431
12	*	440	442	445	447	449	449	445	436	425	418	403	397	398	408	420	427
13		442	437	437	434	435	439	443	437	434	424	412	406	412	422	437	446
14		440	442	446	449	448	446	442	438	426	415	399	389	392	399	409	428
15	*	442	438	441	444	448	452	451	446	438	424	407	398	393	401	417	430
16	*	442	444	446	446	449	452	450	448	441	422	406	396	392	402	417	433
17		447	447	445	445	447	448	447	443	431	418	407	395	390	394	406	419
18		443	443	443	443	445	447	447	439	429	419	407	394	389	398	414	430
19		442	442	440	440	443	447	445	437	429	420	406	395	398	413	423	435
20	**	439	438	435	430	425	428	429	429	422	409	398	390	395	412	431	441
21		447	441	442	444	447	442	439	433	424	413	403	401	396	408	421	436
22		450	447	445	441	442	448	444	437	432	422	408	401	396	407	418	428
23		444	442	440	436	440	444	440	435	432	430	418	405	401	408	421	442
24	*	452	451	449	448	449	450	449	447	435	425	418	415	414	420	424	435
25		447	446	445	444	446	444	444	438	434	425	419	410	407	412	420	433
26	**	447	445	441	437	438	441	442	435	425	419	405	397	405	420	440	463
27		449	447	449	451	452	455	451	449	442	428	420	415	416	420	430	442
28		449	451	451	453	452	454	456	451	443	431	420	410	405	415	433	455
29	*	441	445	448	451	455	455	454	448	443	431	422	412	409	420	437	456
30	**	445	441	440	443	447	453	452	447	442	424	405	401	404	406	414	433
31		452	449	445	445	445	447	449	445	433	418	411	400	405	415	429	442
Mean		445	444	444	443	444	445	444	441	434	424	413	404	403	412	425	438
Mean *		443	444	446	447	450	452	450	445	436	424	411	404	401	410	423	436
Mean **		443	441	437	434	430	433	433	433	430	420	408	404	407	417	432	445
JUNE																	
43000 γ + Tabular Quantities (in γ)																	
1	*	445	446	448	449	452	456	456	447	437	422	413 [§]	404	405	410	425	441
2	*	442	442	445	445	447	452	454	457	449	436	421	412	406	412	421	432
3		442	442	442	446	448	452	451	446	443	434	415	409	411	413	424	444
4	**	442	434	422	426	426	430	442	444	448	436	430	419	416	430	447	462
5		434	419	421	431	434	438	442	446	442	432	425	416	415	417	426	440
6	**	433	430	410	406	387	398	411	418	432	437	436	435	440	454	456	464
7		447	435	427	436	445	451	453	449	446	441	431	420	418	426	433	442
8		449	443	437	436	433	436	439	442	445	439	427	423	425	427	434	447
9	*	451	452	451	451	452	455	457	451	439	427	417	407	410	420	431	444
10	*	448	450	450	450	452	454	450	443	437	430	418	409	413	424	435	447
11	*	448	449	450	452	453	456	452	446	436	426	415	411	410	412	420	431
12		446	444	445	448	454	453	450	443	433	421	411	401	407	420	432	444
13		441	442	444	447	451	454	451	443	435	421	413	409	413	424	434	446
14		444	444	447	449	451	455	455	449	435	420	408	400	405	411	428	440
15		446	447	446	447	450	445	443	442	439	436	424	419	418	422	436	451
16		442	444	446	448	452	453	450	445	440	425	406	392	389	403	413	423
17		442	442	442	439	444	449	442	446	440	424	414	404	401	414	431	439
18		444	438	424	421	411	421	429	431	436	438	432	422	421	424	429	440
19		435	433	421	414	428	435	443	446	443	433	420	418	420	426	449	460
20		449	443	437	443	445	441	442	445	449	445	437	428	426	424	428	437
21		450	447	440	440	445	448	438	438	434	428	430	420	415	419	427	439
22		456	454	450	448	450	454	454	452	444	431	425	416	415	421	432	444
23		447	445	445	447	450	455	455	449	445	436	427	416	407	408	419	429
24		451	443	433	431	429	427	427	427	427	417	404	399	412	425	434	439
25	**	451	442	436	425	426	429	425	430	428	423	420	409	411	427	438	442
26	**	458	443	429	405	391	374	372	382	383	398	413	421	448	481	505	521
27		463	465	467	469	470	468	466	461	451	443	427	419	417	426	438	458
28		454	456	457	460	464	466	467	460	451	440	427	417	417	429	443	456
29		455	455	455	455	459	463	459	451	443	433	426	414	406	416	431	445
30	**	449	449	448	443	436	429	424	432	428	426	401	390	401	444	470	522
Mean		447	444	441	440	441	443	443	442	438	430	420	413	414	424	436	449
Mean *		447	448	449	449	451	455	454	449	440	428	417	409	409	416	426	439
Mean **		447	440	429	421	413	412	415	421	424	424	420	415	423	447	463	482

* International Quiet Day. ** International Disturbed Day.

§ May 4 and 5 are not included in the Means.

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 **	349	368	393	364	344	375	388	390	411	431	451	454	455	463	467	474	
2 **	465	464	464	465	469	473	473	474	473	460	442	430	432	463	529	549	
3 **	467	449	432	436	449	462	464	471	469	456	443	428	423	439	451	463	
4	460	460	460	461	464	468	468	468	466	457	444	432	432	433	436	444	
5 **	441	448	451	437	406	400	411	437	434	441	441	441	441	446	450	455	
6	459	461	461	461	455	455	458	465	461	461	455	454	443	444	448	459	
7	453	459	458	453	444	449	455	461	459	454	445	432	426	426	438	443	
8	455	453	450	448	449	454	450	451	441	433	425	425	426	432	440	448	
9	454	449	451	455	455	459	459	457	455	445	428	424	431	439	445	459	
10 *	452	453	452	450	452	455	451	447	441	429	412	405	410	418	429	439	
11 *	451	453	452	453	457	460	461	459	453	439	422	410	408	412	425	439	
12	450	450	450	449	450	458	458	450	441	434	424	417	415	426	436	443	
13 *	450	450	452	454	457	464	464	459	451	439	422	409	405	409	421	442	
14	446	448	450	452	456	460	460	458	450	438	425	415	415	416	423	437	
15 *	444	445	450	454	458	462	462	454	445	430	423	412	412	421	433	446	
16	446	446	448	450	454	458	457	450	442	434	425	422	421	427	438	455	
17	457	454	456	458	461	466	466	458	447	440	426	418	418	426	439	450	
18	449	448	447	450	454	455	450	445	444	438	428	417	418	426	431	438	
19 **	456	450	442	442	449	457	459	454	450	439	433	423	417	425	433	452	
20	454	450	447	445	446	449	449	450	444	433	423	417	411	417	425	437	
21	445	450	453	452	454	458	460	460	454	444	436	426	418	418	431	438	
22	451	448	447	447	450	450	441	434	429	421	411	403	407	419	437	447	
23	452	441	445	449	447	447	455	457	455	447	439	426	424	432	439	451	
24	450	451	451	451	454	457	452	444	435	427	419	416	414	416	426	447	
25	447	450	452	453	455	457	454	455	451	445	435	427	423	424	434	443	
26 *	450	450	451	451	455	457	455	451	443	431	418	406	412	424	435	443	
27	446	447	448	449	453	456	453	451	444	433	423	415	411	415	431	444	
28	439	442	444	446	449	451	445	440	430	421	415	407	405	415	425	436	
29	441	440	444	442	441	448	447	442	436	432	420	411	412	417	431	448	
30	445	445	447	449	452	454	451	449	442	430	420	410	410	420	433	444	
31	438	438	441	445	449	456	455	449	438	430	420	408	406	415	428	440	
Mean	447	447	448	447	448	453	453	451	446	438	429	421	419	427	438	450	
Mean *	449	450	451	452	456	460	459	454	447	434	419	408	409	417	429	442	
Mean **	436	436	436	429	423	433	439	445	447	445	442	435	434	447	466	479	
AUGUST																	
43000 γ + Tabular Quantities (in γ)																	
1	439	440	443	445	447	453	451	445	439	436	424	420	420	422	433	445	
2	441	445	440	437	441	445	446	449	445	438	432	424	418	417	421	433	
3 **	439	434	438	441	446	451	446	441	436	425	421	414	416	422	426	428	
4	453	437	437	439	444	445	448	445	441	432	422	418	418	423	429	437	
5	449	447	447	448	449	452	450	442	434	430	427	422	421	422	428	438	
6 **	438	436	434	434	431	427	415	412	417	414	400	409	429	438	448	458	
7	450	449	451	452	450	449	446	444	442	432	426	422	431	449	457	463	
8	453	453	453	453	451	450	443	442	437	426	419	415	416	425	437	446	
9	444	438	427	433	442	445	449	450	446	434	416	410	413	419	420	430	
10	440	442	431	435	442	449	448	446	442	436	423	416	416	422	431	443	
11 *	445	445	446	447	450	453	451	449	442	431	418	411	407	418	434	445	
12	442	442	440	435	433	434	434	436	433	417	416	414	409	416	425	438	
13 **	443	443	437	421	408	396	408	418	426	426	418	416	422	435	446	459	
14	446	447	449	451	453	455	453	443	438	430	419	408	408	415	430	439	
15	443	439	434	439	447	451	454	454	451	443	430	419	415	416	423	430	
16	444	441	440	441	446	448	448	448	444	433	419	411	402	404	412	426	
17 *	441	440	441	441	444	446	448	448	445	438	426	412	408	413	420	431	
18	441	440	438	438	440	444	446	447	441	432	417	412	412	419	436	445	
19	442	437	426	426	425	432	440	448	445	443	443	434	425	427	442	450	
20	443	442	442	442	444	450	450	448	442	435	432	422	420	430	441	450	
21	439	435	429	414	415	417	422	430	438	436	430	425	428	439	451	464	
22 *	452	452	451	450	450	450	449	446	441	433	422	417	422	429	434	437	
23 *	449	449	448	448	446	446	442	440	437	426	417	414	409	415	423	431	
24 *	444	446	446	446	446	445	446	442	439	429	414	404	403	410	421	433	
25	442	442	444	444	446	448	449	448	446	439	426	413	410	419	433	442	
26	443	443	446	446	449	451	451	448	441	431	421	411	411	422	433	444	
27	442	443	442	445	444	437	437	433	426	413	400	398	399	413	429	444	
28	438	440	442	443	446	447	446	442	438	430	414	406	411	415	430	446	
29	437	438	442	444	446	449	448	446	442	433	419	410	408	410	426	437	
30 **	453	467	462	446	446	455	466	467	456	444	430	428	431	434	445	455	
31 **	450	448	445	446	450	454	457	450	442	435	428	423	422	422	436	453	
Mean	444	443	442	441	443	444	445	443	440	432	422	415	416	422	432	443	
Mean *	446	446	446	446	447	448	447	445	441	431	419	412	410	417	426	435	
Mean **	445	446	443	438	436	437	438	438	435	429	419	418	424	430	440	451	

* 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		h m	γ	
481	490	489	495	491	482	473	467	435	18 17	505	298†	4 17	207	1 **
559	553	545	534	502	480	474	471	485	16 21	564†	423	11 49	141	2 **
472	478	486	488	486	476	467	461	459	19 20	489	414	12 13	75	3 **
452	457	472	473	481	477	466	454	458	20 34	483	430	12 4	53	4
463	473	480	483	483	474	453	457	448	20 26	485	387	4 56	98	5 **
464	463	469	482	482	471	461	442	460	20 20	485	440	12 50	45	6
445	454	468	473	468	461	461	459	452	19 30	473	423	13 11	50	7
460	467	469	469	468	463	457	457	450	19 20	470	424	11 18	46	8
470	470	468	461	457	456	453	453	452	17 4	473	421	11 0	52	9
449	455	457	455	452	450	449	450	442	18 30	456	404	11 30	52	10 *
453	457	457	455	453	451	447	448	445	6 15	462	405	12 50	57	11 *
451	462	468	472	461	455	452	451	447	19 18	474	413	12 8	61	12
454	461	458	454	452	447	445	445	444	6 0	465	404	12 14	61	13 *
449	457	461	457	457	454	449	448	445	18 35	461	412	11 58	49	14
455	458	457	454	451	449	448	447	445	5 56	464	410	11 54	54	15 *
474	491	514	509	487	469	463	462	456	18 40	520	418	12 51	102	16
457	458	454	455	454	456	450	449	449	5 53	468	417	12 0	51	17
459	479	489	489	481	470	464	459	451	18 55	492	415	11 30	77	18
473	493	503	502	492	478	462	453	456	18 54	504	416	12 34	88	19 **
448	461	480	480	470	462	461	449	446	18 59	484	410	12 45	74	20
443	448	451	453	454	451	452	453	446	7 0	463	413	12 59	50	21
459	476	497	509	470	471	466	459	448	19 50	517	401	11 31	116	22
458	462	463	462	459	455	453	451	449	18 20	464	423	12 14	41	23
461	474	481	474	461	455	455	454	447	18 37	482	411	12 50	71	24
451	456	455	451	448	447	449	450	446	5 18	457	422	13 5	35	25
445	447	448	447	444	444	443	444	441	5 18	457	404	11 40	53	26 *
452	456	451	444	440	438	438	438	441	5 37	456	409	12 54	47	27
445	452	451	447	444	440	440	440	436	5 32	452	403	12 11	49	28
460	466	463	458	452	451	449	446	442	17 34	466	409	11 54	57	29
449	455	456	453	448	445	445	444	442	18 20	457	408	11 57	49	30
449	454	454	451	449	451	447	441	440	5 47	458	405	11 59	53	31
460	467	471	471	464	459	455	452	448	-	478	409	-	68.2	Mean
451	456	455	453	450	448	446	447	443	-	461	405	-	55.4	Mean *
490	497	501	500	491	478	466	462	457	-	509	388	-	121.8	Mean **
43000 γ + Tabular Quantities (in γ)													AUGUST	
										h m		h m	γ	
450	450	446	447	447	445	442	441	440	5 9	455	418	11 50	37	1
442	449	454	457	457	453	449	445	441	19 46	458	416	14 4	42	2
433	451	468	484	469	457	453	453	441	19 55	493	414	12 0	79	3 **
441	441	442	446	449	448	449	448	439	0 22	483	417	12 52	66	4
446	454	463	473	465	462	459	451	445	19 25	474	419	12 10	55	5
470	481	485	489	476	461	461	450	442	19 53	502	395	10 40	107	6 **
467	468	463	462	458	454	454	453	450	17 35	468	420	11 26	48	7
448	449	448	446	446	446	446	448	442	2 20	454	412	11 29	42	8
440	446	449	450	450	450	450	437	437	22 25	457	410	11 23	47	9
452	456	457	451	450	447	446	446	440	18 11	458	414	11 48	44	10
446	449	445	440	440	439	438	440	439	5 14	454	407	12 31	47	11 *
451	462	458	459	454	450	448	444	437	19 26	464	408	12 6	56	12
468	467	470	464	458	450	444	442	437	18 24	472	395	5 20	77	13 **
450	452	453	452	457	453	453	451	442	20 34	457	405	12 7	52	14
438	444	447	447	450	451	445	446	440	7 29	456	415	12 35	41	15
436	440	444	447	448	446	444	443	436	6 46	450	400	12 40	50	16
438	442	442	443	442	442	442	441	436	7 0	448	408	12 40	40	17 *
449	453	455	449	449	448	445	444	439	18 10	457	410	11 33	47	18
454	454	452	450	449	447	446	445	441	17 4	454	421	12 58	33	19
459	460	470	470	466	458	450	446	446	18 26	473	419	12 0	54	20
470	468	462	456	452	450	451	451	441	16 1	471	409	3 46	62	21
438	437	438	442	442	443	445	446	440	0 20	452	416	11 14	36	22 *
437	440	439	438	438	440	441	442	436	0 52	450	409	12 23	41	23 *
438	439	438	435	437	438	439	440	434	1 27	445	401	11 52	44	24 *
447	449	450	450	449	446	450	446	441	22 36	455	407	12 10	48	25
455	459	456	455	447	446	442	441	441	17 49	460	409	12 0	51	26
455	463	462	458	452	445	435	438	436	17 45	464	394†	12 12	70	27
457	459	458	454	449	445	444	442	439	17 30	461	404	11 7	57	28
444	450	449	453	450	470	466	454	440	19 23	486	409	12 0	77	29
462	465	461	458	455	454	452	450	452	1 43	479	418	10 56	61	30 **
474	489	505	490	480	465	454	452	453	18 18	531†	414	13 19	117	31 **
450	454	456	455	453	450	448	446	441	-	466	410	-	55.7	Mean
439	441	440	440	440	440	441	442	437	-	450	408	-	41.6	Mean *
461	471	478	477	468	457	453	449	445	-	495	407	-	88.2	Mean **

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

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	437	422	407	419	437	447	452	450	454	450	439	425	421	423	441	451	
2	442	438	438	439	422	402	413	426	444	450	437	421	417	437	482	523	
3 **	478	458	446	440	460	469	476	464	466	458	469	466	495	548	595	695	
4 **	490	482	482	480	467	469	476	478	476	470	466	462	453	444	496	644	
5	354	248	283	297	277	390	463	493	501	501	500	495	497	501	503	503	
6	481	485	481	466	469	471	472	474	472	469	458	447	449	473	482	488	
7	475	475	474	474	471	467	467	465	460	454	450	442	439	443	453	462	
8 *	468	469	470	471	471	471	469	465	456	446	431	422	424	431	446	457	
9	463	463	461	462	463	463	461	458	453	449	431	424	435	447	455	467	
10	461	463	463	464	465	465	466	462	455	445	440	434	428	434	440	453	
11 *	459	458	460	461	462	463	464	461	455	444	430	421	426	432	442	454	
12	454	452	455	456	458	460	460	456	450	443	429	422	424	430	445	455	
13 **	444	412	394	335	352	396	388	334	373	390	472	501	515	519	507	516	
14	484	486	485	485	484	487	492	491	477	460	455	461	471	484	512	514	
15	465	460	459	457	452	460	466	470	470	464	455	447	448	449	454	463	
16	453	441	439	439	444	450	457	463	464	463	455	443	435	437	447	458	
17	436	456	456	457	457	460	464	464	464	459	447	443	444	448	462	475	
18	460	456	451	448	446	450	457	460	459	456	447	435	432	432	433	441	
19 *	456	456	455	455	454	454	455	456	455	451	443	428	424	426	429	436	
20 *	454	454	452	452	452	450	452	453	451	444	434	428	423	424	427	430	
21	448	448	450	449	449	448	451	451	445	437	417	421	439	467	488	502	
22	468	448	455	433	427	425	432	437	444	450	453	456	469	483	525	584	
23 **	391	406	378	295	243	309	315	372	417	450	488	514	536	587	601	594	
24	469	444	458	475	476	470	478	484	478	480	470	465	470	479	476	482	
25	465	457	457	459	458	461	466	468	463	460	451	445	449	461	472	477	
26	461	461	463	465	466	467	469	468	469	456	445	434	434	441	451	463	
27 *	461	461	462	464	465	466	470	473	469	461	445	430	425	426	438	455	
28	459	460	461	462	458	453	454	460	459	450	438	431	431	434	440	450	
29 **	458	456	454	453	453	454	451	451	456	452	440	423	412	429	515	612	
30	470	486	485	461	480	487	493	496	482	476	470	470	468	474	485	509	
Mean	456	449	448	442	441	450	455	457	458	455	450	445	448	458	475	497	
Mean *	460	460	460	461	461	461	462	462	457	449	437	426	424	428	436	446	
Mean **	452	443	431	401	395	419	421	420	438	444	467	473	482	505	543	612	
OCTOBER																	
43000 γ + Tabular Quantities (in γ)																	
1 **	462	466	458	458	466	474	476	478	478	477	471	464	456	456	460	462	
2	477	474	467	459	463	465	467	469	469	467	459	451	447	444	443	449	
3	467	466	467	464	463	463	463	466	463	456	449	444	444	445	445	459	
4	470	467	466	465	462	462	462	465	464	459	450	439	432	435	445	461	
5	455	458	459	459	459	457	455	457	453	442	434	429	429	433	443	454	
6 *	466	465	464	462	459	458	458	460	459	454	447	441	440	445	449	456	
7 *	457	457	457	457	456	455	451	453	453	451	442	431	426	429	439	448	
8 *	458	460	459	457	458	455	453	454	453	444	431	420	415	419	427	437	
9	448	450	452	452	452	452	449	448	448	445	434	424	422	427	443	456	
10	455	452	451	451	443	435	438	438	442	442	438	435	442	450	463	475	
11 **	459	456	454	457	451	451	455	458	458	454	439	439	452	473	487	500	
12	462	460	459	457	458	461	460	463	461	453	450	443	443	450	459	475	
13 **	464	462	449	456	458	453	451	456	459	459	451	447	446	450	462	474	
14 **	466	459	449	439	435	424	407	424	440	438	444	451	454	458	474	503	
15	460	463	463	465	466	468	472	477	476	471	461	453	452	458	458	469	
16 *	465	463	464	464	464	465	467	471	470	463	452	444	444	445	448	458	
17	460	459	457	455	456	456	456	462	463	456	445	440	442	442	442	448	
18 *	458	457	456	455	454	454	454	458	458	449	439	435	433	436	438	444	
19	456	454	453	452	451	451	452	452	449	443	435	427	426	429	439	452	
20	461	460	459	454	452	451	451	453	449	444	434	431	429	433	440	447	
21 **	473	466	465	462	461	458	454	453	451	445	441	434	433	436	446	457	
22	462	475	479	475	470	468	462	460	457	450	446	448	453	459	459	469	
23	465	444	455	461	463	463	460	458	457	448	440	435	438	441	452	462	
24	458	459	462	462	462	461	458	457	455	449	440	437	441	449	457	465	
25	457	459	457	457	458	459	460	464	463	456	446	441	441	444	451	462	
26	458	457	458	459	460	459	457	457	458	454	448	442	438	442	449	456	
27	453	454	453	453	455	455	454	455	458	452	434	426	429	434	442	454	
28	457	457	451	451	454	456	457	458	462	460	448	442	445	450	454	460	
29	456	458	456	454	454	458	458	464	466	455	448	444	436	445	450	454	
30	462	461	460	454	453	456	457	458	462	460	453	446	446	449	456	466	
31	455	455	455	455	454	456	456	458	462	458	445	433	440	445	449	453	
Mean	461	460	459	457	457	457	456	458	459	453	445	439	439	444	451	461	
Mean *	461	460	460	459	458	457	457	459	459	452	442	434	432	435	440	449	
Mean **	465	462	455	454	454	452	449	454	457	455	449	447	448	455	466	479	

* 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)													SEPTEMBER	
										h m	h m	γ		
456	458	456	456	455	450	450	448		442	9 4	459	398 2 4	61	1
560	564	548	546	554	441	436	519		467	20 27	670	395 5 52	275	2
651	609	561	521	505	491	490	492		508	15 27	769	422 2 51	347	3 **
716	740	573	602	577	560	454	422		516	17 35	984†	370 22 23	614	4 **
506	507	517	514	500	478	454	468		448	18 27	520	187† 2 2	333	5
501	515	520	506	489	482	478	476		479	18 50	526	443 12 1	83	6
466	461	461	462	464	466	466	466		462	3 59	478	436 12 18	42	7
459	459	454	457	459	459	461	464		456	4 5	471	420 11 24	51	8 *
478	476	467	467	466	461	459	460		458	16 44	480	422 11 13	58	9
459	467	460	458	458	459	458	457		455	6 18	466	426 12 20	40	10
463	464	466	464	464	460	459	458		454	18 15	466	420 11 40	46	11 *
461	462	461	462	458	456	454	447		450	5 7	461	422 11 38	39	12
535	536	508	502	501	499	486	485		454	17 4	555	314 7 28	241	13 **
517	502	487	485	483	483	480	457		484	16 9	519	451 11 58	68	14
469	474	484	482	479	474	464	459		464	19 14	484	445 11 36	39	15
468	473	476	468	464	462	462	462		455	18 41	483	433 1 46	50	16
487	480	472	465	461	462	460	460		461	16 45	490	442 11 16	48	17
444	452	456	456	461	456	457	459		450	20 34	462	431 12 32	31	18
442	448	450	452	452	452	454	454		447	7 19	457	422 11 55	35	19 *
440	448	451	453	452	451	452	450		445	19 34	455	422 12 35	33	20 *
545	600	609	600	551	494	488	484		483	18 34	627	410 10 33	217	21
680	558	519	512	533	510	464	430		483	16 14	865	371 23 26	494	22
589	602	547	524	486	469	469	472		461	17 17	634	210 4 34	424	23 **
492	496	491	488	477	472	471	469		475	17 5	496	439 1 45	57	24
481	477	473	473	469	467	466	465		464	16 7	481	443 11 39	38	25
477	486	481	474	468	465	461	461		462	17 25	487	431 12 0	56	26
467	469	469	468	465	462	460	458		458	8 1	475	423 12 43	52	27 *
458	459	461	466	466	462	461	459		454	19 46	468	429 12 16	39	28
703	698	654	657	528	550	494	342		500	16 32	822	302 23 15	520	29 **
517	522	505	502	503	498	478	458		486	17 20	529	412 0 0	117	30
513	512	498	495	485	475	465	459		466	-	551	400 -	151.6	Mean
454	458	458	459	458	457	457	457		452	-	465	421 -	43.4	Mean *
639	637	569	561	519	514	479	443		488	-	753	324 -	429.2	Mean **
43000 γ + Tabular Quantities (in γ)													OCTOBER	
										h m	h m	γ		
465	467	474	483	500	491	490	479		471	19 57	502	449 2 49	53	1 **
456	459	462	463	464	467	472	465		462	0 5	479	443 14 28	36	2
472	487	487	478	473	468	467	472		464	18 23	499	442 11 53	57	3
468	476	480	479	471	466	465	463		461	18 31	484	428 12 48	56	4
464	469	467	465	461	462	462	464		454	18 16	472	426 11 55	46	5
459	456	455	455	454	454	454	454		455	0 3	469	439 12 5	30	6 *
454	453	453	452	451	453	454	456		450	23 48	458	426 12 53	32	7 *
443	443	444	444	444	444	445	447		444	1 10	460	413 12 23	47	8 *
466	466	470	469	465	460	456	458		451	18 50	470	422 12 35	48	9
482	475	470	471	472	459	459	459		454	16 33	482	432 11 11	50	10
499	492	488	481	475	471	469	464		466	15 43	502	435 10 53	67	11 **
487	491	489	487	487	479	471	467		466	16 55	492	441 11 57	51	12
476	477	472	471	474	476	471	468		462	20 59	489	438 2 3	51	13 **
514	517	514	506	506	501	483	457		465	16 41	518†	403† 6 35	115	14 **
480	487	487	489	482	483	477	470		470	19 54	495	449 12 17	46	15
463	461	460	460	462	463	462	461		460	7 51	472	443 11 50	29	16 *
453	453	453	454	455	456	457	457		453	8 9	466	437 11 40	29	17
449	450	452	454	456	458	460	457		451	22 11	460	433 12 10	27	18 *
453	448	449	451	456	464	466	462		449	21 57	467	424 12 7	43	19
454	456	459	472	479	484	488	480		455	22 40	490	426 11 56	64	20
460	457	457	457	460	488	487	470		457	22 43	513	432 13 24	81	21 **
473	474	470	469	467	473	480	471		465	22 5	484	446 10 23	38	22
467	464	461	463	468	461	457	458		456	20 41	472	434 11 19	38	23
466	464	461	471	460	457	457	457		457	19 26	479	434 11 49	45	24
465	461	461	461	457	455	457	458		456	8 6	467	437 11 47	30	25
459	459	456	456	456	458	454	452		454	21 25	461	436 12 42	25	26
459	456	456	457	457	462	461	457		451	21 43	464	425 12 37	39	27
457	460	464	462	462	462	459	458		456	18 43	467	434 11 9	33	28
453	453	456	462	467	474	475	466		457	22 22	482	430 12 27	52	29
466	462	462	466	459	458	458	458		458	19 27	470	442 11 23	28	30
456	458	455	456	459	460	459	458		454	8 36	464	431 11 38	33	31
466	466	466	467	466	467	466	462		458	-	479	433 -	45.8	Mean
454	453	453	453	453	454	455	455		452	-	464	431 -	33.0	Mean *
483	482	481	480	483	485	480	468		464	-	505	431 -	73.4	Mean **

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

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	457	456	456	455	452	450	447	451	452	442	438	433	434	439	447	453	
2	458	457	455	454	453	451	450	451	453	447	446	438	436	439	445	452	
3	459	455	453	454	455	455	454	452	451	448	440	444	450	454	455	456	
4 *	459	457	457	455	455	454	454	455	458	453	443	440	442	446	451	454	
5 *	462	459	459	456	454	453	452	454	455	449	442	439	444	450	454	454	
6	456	456	455	455	453	451	450	450	451	448	443	437	437	443	449	455	
7	454	394	430	455	466	467	463	464	465	465	458	460	466	475	487	491	
8	465	466	466	466	466	464	462	462	462	458	455	455	456	456	463	472	
9 **	458	462	460	449	449	444	447	450	459	459	453	453	455	465	479	488	
10	462	458	461	465	458	450	455	457	464	463	458	457	460	463	472	480	
11	460	457	455	451	452	455	458	460	461	456	449	448	453	466	466	468	
12	460	451	450	455	458	459	457	459	456	451	445	447	449	463	471	478	
13	460	457	460	461	465	465	465	464	461	456	449	445	451	455	459	458	
14	451	449	443	449	453	455	457	457	456	449	441	439	441	447	453	457	
15	469	466	461	450	452	455	457	455	456	453	450	449	448	448	453	457	
16	463	463	459	457	457	457	457	457	461	457	450	444	445	446	453	456	
17 *	457	456	456	456	454	454	453	452	454	452	445	441	441	444	448	452	
18	457	449	446	444	441	440	440	436	442	444	441	444	454	461	476	479	
19	468	469	465	465	461	457	453	453	457	456	452	455	457	457	460	460	
20	461	462	461	459	456	456	453	451	451	449	442	442	446	451	457	460	
21 *	457	457	457	457	457	456	454	452	453	450	446	446	449	452	456	456	
22 *	456	456	457	457	457	454	452	448	446	440	438	437	440	444	447	454	
23	453	453	453	453	453	453	452	448	444	444	441	442	444	444	446	447	
24	452	453	452	453	453	451	450	446	443	437	435	433	432	438	445	450	
25 **	454	455	452	449	449	453	449	439	440	442	441	440	441	447	453	461	
26 **	463	452	452	454	457	459	459	455	453	448	442	436	439	442	450	463	
27 **	434	444	428	417	438	452	458	457	453	457	456	455	461	465	474	484	
28 **	480	478	468	462	466	470	470	462	454	449	456	457	456	465	471	475	
29	478	478	472	470	470	468	467	469	466	462	458	460	456	458	463	465	
30	464	466	466	465	465	463	463	462	458	453	451	453	453	455	457	457	
Mean	460	456	456	455	456	456	455	454	455	451	447	446	448	453	459	463	
Mean *	458	457	457	456	455	454	453	452	453	449	443	441	443	447	451	454	
Mean **	458	458	452	446	452	456	457	453	452	451	450	448	450	457	465	474	
DECEMBER																	
43000 γ + Tabular Quantities (in γ)																	
1 **	462	464	469	460	459	460	458	455	458	455	453	451	453	457	462	462	
2	462	458	455	455	455	456	454	454	454	444	440	443	448	454	461	465	
3	461	460	459	456	453	455	452	451	457	456	454	448	445	457	464	465	
4	453	454	454	453	453	453	452	451	453	449	448	449	449	453	458	458	
5	466	449	450	450	445	443	441	442	446	452	451	450	452	458	468	471	
6 **	449	454	455	452	448	449	452	454	458	458	451	449	454	458	466	478	
7	462	458	460	461	462	461	458	454	453	447	443	448	457	459	462	462	
8	459	456	458	458	458	459	458	456	452	450	445	442	445	451	455	458	
9	459	459	454	455	455	455	456	455	453	449	441	437	444	451	462	465	
10	460	461	461	450	451	456	456	455	451	446	438	438	443	452	464	477	
11 **	463	457	453	447	431	424	430	437	437	439	442	440	444	445	458	460	
12 **	484	476	469	465	464	467	463	460	463	460	457	450	450	451	457	466	
13	458	459	459	458	459	461	463	460	458	453	453	450	447	448	454	470	
14	461	460	459	459	457	458	460	460	459	454	450	448	447	447	450	459	
15	465	461	459	458	458	455	454	453	455	454	450	443	444	442	455	475	
16	461	455	455	456	456	456	454	453	455	454	449	444	444	450	453	458	
17	461	462	465	453	444	446	448	447	449	453	455	453	455	458	458	460	
18	458	458	459	456	455	454	453	452	454	455	448	450	452	454	455	462	
19	463	460	460	459	456	455	452	452	452	449	446	449	446	445	452	455	
20	493	481	477	472	467	455	459	460	459	458	456	457	455	456	457	463	
21	466	465	465	463	461	453	446	447	450	450	447	450	447	451	459	465	
22 *	466	464	461	459	459	461	461	460	461	463	454	449	447	446	453	462	
23 *	458	459	461	462	461	460	460	458	457	453	447	445	447	455	460	465	
24	457	456	457	457	457	457	456	455	455	453	446	440	439	445	450	455	
25	456	454	455	458	458	457	454	453	457	459	454	447	442	441	445	451	
26	467	462	462	462	455	452	450	452	455	450	446	438	432	440	448	460	
27 *	462	460	460	457	458	460	462	463	464	461	450	446	447	446	452	456	
28 *	461	460	459	460	460	460	460	460	459	455	449	448	444	440	447	452	
29 *	457	455	455	455	455	455	455	455	455	454	447	445	442	442	444	448	
30	466	465	463	456	455	456	454	452	451	449	450	447	436	432	448	458	
31 **	459	458	457	446	443	440	441	439	446	444	452	452	460	478	503	518	
Mean	462	460	460	457	455	454	454	453	454	452	449	447	447	450	457	464	
Mean *	461	460	459	459	459	459	460	459	459	457	449	447	445	446	451	457	
Mean **	463	462	461	454	449	448	449	449	452	451	451	448	452	458	469	477	

* 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)													NOVEMBER	
										h m	h m	γ		
457	455	455	457	460	461	463	462	451	451	22 54	464	433 11 48	31	1
451	451	451	452	454	453	462	463	451	451	22 50	467	433 12 10	34	2
459	463	464	465	462	461	461	461	455	455	19 10	467	437 10 24	30	3
454	452	452	455	458	464	464	463	454	454	21 20	466	440 11 38	26	4 *
452	450	449	450	453	455	458	457	453	453	0 0	462	436 12 10	26	5 *
452	449	447	459	499	504	479	477	456	456	21 5	517	435 12 16	82	6
483	480	476	475	470	467	466	464	464	464	15 22	493	349† 1 24	144	7
475	472	471	468	475	474	471	470	465	465	23 21	479	450 10 7	29	8
479	476	484	488	483	484	481	464	465	465	15 27	496	443 5 5	53	9 **
480	476	473	477	480	472	471	464	466	466	20 3	484	445 5 29	39	10
471	472	472	476	479	474	462	466	462	462	21 30	484	442 11 32	42	11
488	481	476	475	470	467	468	464	462	462	16 31	493	443 10 20	50	12
465	470	471	471	469	467	465	460	461	461	19 5	472	444 11 13	28	13
461	462	469	473	468	468	472	476	456	456	23 19	479	432 12 29	47	14
461	461	461	465	469	473	465	464	458	458	21 33	477	441 12 27	36	15
456	458	465	462	460	461	460	460	457	457	1 3	467	440 11 24	27	16
453	453	450	453	454	456	457	461	452	452	23 43	466	440 12 21	26	17 *
472	472	472	469	468	466	467	469	456	456	15 6	485	434 7 20	51	18
461	458	457	457	459	464	460	460	459	459	1 47	468	447 10 23	21	19
466	464	459	459	463	460	457	457	456	456	16 23	468	436 10 53	32	20
457	457	453	452	452	454	456	456	454	454	23 37	457	446 10 50	11	21 *
458	454	453	454	454	452	452	452	451	451	16 33	459	434 11 37	25	22 *
451	452	452	449	448	449	449	450	449	449	23 50	453	439 10 53	14	23
452	452	456	460	461	463	457	456	449	449	21 33	464	428 12 39	36	24
465	474	492	502	493	487	477	469	459	459	19 27	507	430 11 36	77	25 **
462	511	516	500	508	477	469	457	464	464	17 40	579†	433 24 0	146	26 **
479	477	481	489	493	497	501	489	464	464	22 10	507	409 3 18	98	27 **
476	476	485	480	488	490	485	479	471	471	21 12	498	442 9 11	56	28 **
465	467	466	470	470	468	467	466	467	467	0 52	482	453 12 52	29	29
457	457	458	461	461	460	460	460	459	459	2 22	468	446 12 56	22	30
464	465	466	467	469	468	466	464	458	458	-	481	435 -	45.6	Mean
455	453	451	453	454	456	457	458	453	453	-	462	439 -	22.8	Mean *
472	483	492	492	493	487	483	472	465	465	-	517	431 -	86.0	Mean **
43000 γ + Tabular Quantities (in γ)													DECEMBER	
										h m	h m	γ		
466	466	464	463	466	471	476	465	461	461	21 58	486	446 11 58	40	1 **
468	471	471	469	467	465	463	463	458	458	18 57	471	436 9 44	35	2
468	464	464	468	464	464	464	462	459	459	16 37	470	441 12 22	29	3
461	460	456	456	456	460	465	467	455	455	23 55	469	444 9 26	25	4
471	471	476	490	490	481	481	472	461	461	20 6	500	440 7 23	60	5
490	481	480	480	486	479	474	469	464	464	16 29	495	441 0 18	54	6 **
467	470	467	470	471	468	468	466	461	461	20 23	472	440 10 40	32	7
462	462	459	459	460	459	461	461	456	456	17 5	464	439 11 10	25	8
481	477	474	472	470	477	464	459	459	459	21 37	485	432 11 14	53	9
479	485	487	499	501	492	483	471	465	465	20 13	503	435 10 55	68	10
462	465	475	495	488	484	479	483	456	456	21 23	509	420† 5 33	89	11 **
475	471	470	483	484	479	468	471	467	467	19 40	493	446 11 18	47	12 **
470	467	467	471	473	472	467	464	461	461	15 50	482	441 12 28	41	13
462	460	459	459	462	465	469	467	458	458	22 30	470	444 12 49	26	14
465	465	469	471	471	468	465	465	459	459	15 16	483	431 11 43	52	15
458	459	463	461	460	463	465	458	456	456	22 8	473	442 12 12	31	16
458	455	467	466	463	463	468	461	457	457	18 32	475	441 4 40	34	17
461	458	455	456	457	458	459	463	456	456	23 51	464	445 11 2	19	18
455	454	454	468	484	488	489	492	460	460	24 0	496	437 9 40	59	19
465	462	461	467	469	469	464	465	464	464	0 10	498	451 5 16	47	20
466	463	462	464	465	467	466	466	459	459	21 42	469	443 6 57	26	21
464	463	461	461	460	458	457	457	459	459	0 57	468	446 13 43	22	22 *
463	460	459	459	458	457	455	456	457	457	15 30	465	444 12 7	21	23 *
458	457	458	460	464	463	461	458	455	455	20 19	465	436 12 21	29	24
455	456	459	476	482	483	483	474	459	459	22 3	488	435 12 53	53	25
463	465	467	475	472	466	464	462	457	457	19 6	482	426 12 47	56	26
459	459	460	463	464	466	465	464	459	459	21 12	467	444 13 10	23	27 *
455	454	456	456	459	462	462	459	456	456	21 20	463	439 13 3	24	28 *
452	452	454	454	456	464	467	469	454	454	23 11	471	439 13 2	32	29 *
460	461	462	463	463	461	460	460	455	455	2 10	467	427 13 7	40	30
518	517	517	545	520	524	525	511	480	480	19 36	567†	435 6 59	132	31 **
466	465	466	471	471	471	470	467	459	459	-	482	439 -	42.7	Mean
459	458	458	459	459	461	461	461	457	457	-	467	442 -	24.4	Mean *
482	480	481	493	489	487	484	480	466	466	-	510	438 -	72.4	Mean **

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

TABLE IV. - K-INDICES

Date	January			February			March			April			May		June			
	Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum	Indices	Sum		
1	1224	3221	17	2222	3221	16	1122	3454	22	4323	3334	25	4433	3322	24	0122	3321	14
2	2134	2255	24	0222	3333	18	5776	5456	45	4233	3333	24	2343	2222	20	1210	1222	11
3	3233	3222	20	2212	2355	22	4343	3433	27	3333	2344	25	2212	2334	19	2324	4454	28
4	2223	2111	14	4333	4444	29	3332	2123	19	3432	3243	24	2232	33--	-	4543	3444	31
5	0121	2121	10	5533	4343	30	3333	3343	25	4334	4425	29	----	3323	-	5433	3434	29
6	1212	3123	15	3133	2221	17	4223	3332	22	5443	2112	22	3234	3232	22	4533	3344	29
7	2222	3111	14	1023	2222	14	2222	3333	20	0333	2211	15	3323	2322	20	4222	2213	18
8	3323	3343	24	2233	2222	18	4133	3235	24	2332	3223	20	1122	2434	19	3212	3322	18
9	2222	3444	23	2322	2322	18	4423	3344	27	2433	3344	26	2344	4332	25	1231	2232	16
10	2343	3455	29	2232	1101	12	3335	6455	34	5554	3433	32	2222	2334	20	1122	2212	13
11	4232	3222	20	1223	3422	19	3232	2232	19	2324	3223	21	2222	3223	18	1202	1111	9
12	2322	1102	13	2433	2243	23	3333	2211	18	2232	3333	21	2123	3202	15	2230	3322	17
13	2123	2212	15	3434	5563	33	0223	2432	18	3332	3212	19	3323	3333	23	1123	2333	18
14	1012	2220	10	2222	2121	14	1133	2312	16	0121	0321	10	1223	2232	17	2223	3232	19
15	1111	3233	15	0134	3323	19	2232	3345	24	0343	3235	23	2121	3222	15	3432	3532	25
16	3223	3222	19	1222	2332	17	5443	3354	31	4434	3333	27	0022	2330	12	2022	3322	16
17	2223	2222	17	2123	3333	20	3333	3423	24	3333	5457	33	0233	2432	19	3443	4323	26
18	1112	2110	9	3233	3344	25	2223	3223	19	6333	3544	31	2131	3222	16	4533	4333	28
19	0033	3332	17	3333	3455	29	2132	2344	21	5553	3544	34	2122	4443	22	4433	4423	27
20	2113	2100	10	4333	3333	25	3333	2224	22	4322	2322	20	3433	3432	25	3332	3442	24
21	2234	5579	37	4343	4444	30	1322	3545	25	3322	2433	22	3333	3332	23	2322	3443	23
22	8564	4432	36	4333	4344	28	3243	3434	26	1222	2221	14	2222	2311	15	3234	4222	22
23	3334	3343	26	4322	3365	28	4334	3332	25	3322	3323	21	2222	3231	17	2223	3332	20
24	4422	4255	28	6544	4322	30	3222	2144	20	3233	5544	29	2123	3220	15	4343	3332	25
25	4343	2234	25	3324	3111	18	4533	4322	26	3232	3332	21	2233	3333	22	4334	4555	33
26	2233	3323	21	1122	3322	16	2133	4434	24	2334	3443	26	3344	4433	28	4555	5545	38
27	1234	3322	20	3322	1222	17	3323	4456	30	4433	3222	23	3232	2212	17	3233	5234	25
28	1122	3232	16	1012	2211	10	6554	3422	31	2233	3344	24	1122	2322	15	3343	4431	25
29	1223	5444	25				2544	7765	40	3333	3321	21	1221	1322	14	1121	3222	14
30	4444	3343	29				5432	2224	24	2333	2333	22	3234	4433	26	2556	6767	44
31	2323	3333	22				3333	3444	27				3322	1322	18			

The values for the first three months of the table are derived from the Abinger records.

FOR THE YEAR 1957

Date	July			August			September			October			November			December		
	Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum	
1	6653	2564	37	1322	2221	15	5433	3223	25	4333	3243	25	1322	2222	16	5544	3324	30
2	0134	6542	25	3313	3223	20	3554	5467	39	3323	3223	21	1222	2214	16	3333	3222	21
3	-434	4233	-	3222	3653	26	6556	7864	47	3213	4443	24	3233	3331	21	2133	3223	19
4	1112	3344	19	6221	2321	19	3422	7967	40	3223	3333	22	2011	1222	11	3132	2213	17
5	4554	2335	31	2122	2334	19	7754	5455	42	3212	2333	19	1102	2211	10	4332	3344	26
6	2333	3344	25	3442	4444	29	4323	4542	27	2010	1011	6	0022	2365	20	4423	3343	26
7	2222	2332	18	3222	2211	15	2323	3322	20	1122	3122	14	6433	3331	26	3233	3232	21
8	3232	2312	18	1222	3233	18	1113	3223	16	1022	0100	6	1232	3335	22	3222	2122	16
9	2012	2321	13	4322	4324	24	2232	2321	17	1133	3123	17	4333	3444	28	3223	3325	23
10	2210	2210	10	4322	1122	17	1122	2331	15	3332	2343	23	5333	3333	26	3312	3444	24
11	1001	3122	10	2112	2221	13	1122	2113	13	3434	2322	23	3233	4233	23	4543	4345	32
12	3231	3232	19	3333	4432	25	2122	2323	17	2222	3324	20	3223	3323	21	4433	3444	29
13	1112	1210	9	4443	3443	29	6678	6634	46	5523	3254	29	3222	3233	20	3234	3432	24
14	0001	3222	10	1212	3333	18	2345	4334	28	3543	4535	32	3223	4443	25	2222	2112	14
15	2112	2111	11	4322	2233	21	3322	3233	21	3123	3343	22	3334	3323	24	2224	5431	23
16	1033	3443	21	3212	2221	15	4312	2342	21	2002	2221	11	2222	3221	16	3222	2234	20
17	2103	2233	16	1112	3301	12	2123	3331	18	1123	3211	14	1223	2103	14	3432	2333	23
18	1224	3432	21	2113	3122	15	3212	2233	18	2023	2222	15	4433	4332	26	3222	2202	15
19	4332	4444	28	3433	3212	21	1122	2101	10	0023	2332	15	2333	3222	20	2223	3254	23
20	3322	3424	23	0112	3333	16	1012	1232	12	2222	2334	20	2223	3333	21	3433	2233	23
21	2212	2222	15	3432	3411	21	3115	5556	31	3222	3336	24	0012	2113	10	2332	2112	16
22	1344	3454	28	0112	2211	10	4543	6847	41	4233	3324	24	3122	2220	14	2211	1100	8
23	4411	1113	16	0012	2110	7	7766	6664	48	4233	2244	24	0123	3313	16	1111	0101	6
24	3222	3332	20	0112	2111	9	5434	4332	28	2222	2240	16	3323	3322	21	1103	2132	13
25	2231	2322	17	0223	3333	19	3243	3212	20	2222	2223	17	3354	3444	30	1333	3243	22
26	0011	1210	6	2012	2323	15	1122	2321	14	3233	3112	18	4443	4666	37	2333	4331	22
27	0001	1342	11	3333	3343	25	0021	3222	12	2223	3323	20	5444	4434	32	2112	2123	14
28	3222	2221	16	2233	3333	22	1332	3231	18	3133	2332	20	3443	4343	28	1111	1122	10
29	2323	3222	19	2222	2264	22	3443	6877	42	3333	3333	24	3324	3323	23	0001	2103	7
30	1221	2123	14	5443	2431	26	6554	4435	36	2343	3231	21	2233	3321	19	3333	3101	17
31	2122	2323	17	2221	4464	25				1122	3121	13				3443	3555	32

TABLE V. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

Month and Season, 1957	All Days												
	DECLINATION WEST (Unit 0.'01)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-231	-145	-185	-218	-178	-158	-162	-174	-209	-244	-162	+ 9	+243
February	-255	-279	-359	-297	-198	-137	-127	-117	-121	- 87	+ 15	+184	+335
March	-349	-333	-306	-302	-303	-198	-237	-304	-446	-353	-120	+254	+573
April	-311	-282	-287	-332	-352	-290	-304	-438	-535	-473	-184	+244	+659
May	-128	-200	-210	-244	-281	-363	-532	-639	-646	-469	-111	+278	+633
June	- 98	-194	-275	-382	-403	-655	-655	-738	-655	-455	-104	+287	+642
July	-120	-175	-234	-190	-260	-465	-580	-688	-626	-509	-228	+145	+498
August	-201	-221	-209	-268	-346	-437	-547	-589	-568	-400	- 48	+326	+655
September	-294	-243	-260	-356	-394	-399	-434	-542	-610	-453	- 57	+389	+719
October	-251	-282	-232	-217	-212	-192	-192	-290	-452	-460	-195	+154	+484
November	-365	-315	-269	-197	-145	-155	-170	-169	-232	-222	- 46	+211	+395
December	-287	-244	-272	-208	-115	- 93	-133	- 78	-163	-240	-120	+128	+286
Year	-241	-243	-258	-268	-266	-295	-340	-397	-439	-364	-114	+217	+510
Winter	-284	-246	-271	-230	-159	-136	-148	-134	-181	-198	- 78	+133	+315
Equinox	-301	-285	-271	-302	-315	-270	-292	-393	-511	-435	-139	+260	+609
Summer	-137	-198	-232	-271	-322	-480	-579	-664	-624	-458	-123	+259	+607
	INCLINATION (Unit 0.'01)												
January	- 2	- 7	- 12	- 23	- 27	- 56	- 77	- 80	- 61	- 34	+ 8	+ 59	+ 77
February	- 6	- 6	- 12	- 29	- 36	- 49	- 47	- 47	- 25	+ 15	+ 30	+ 32	+ 41
March	- 68	- 70	- 71	- 76	- 91	- 81	- 61	- 53	- 16	+ 45	+ 87	+118	+124
April	- 28	- 21	- 25	- 37	- 56	- 56	- 76	- 43	+ 12	+ 61	+112	+133	+115
May	- 27	- 14	- 13	- 26	- 23	- 20	+ 3	+ 46	+ 82	+109	+133	+ 96	+ 63
June	- 73	- 75	- 83	- 82	- 48	- 20	+ 25	+ 98	+157	+174	+157	+128	+125
July	- 22	- 34	- 38	- 46	- 50	- 20	+ 30	+ 90	+133	+154	+160	+144	+129
August	- 67	- 48	- 49	- 51	- 40	- 18	+ 15	+ 75	+129	+152	+154	+128	+ 89
September	-113	-107	-103	-155	-115	- 75	- 20	+ 56	+133	+238	+211	+173	+138
October	- 58	- 45	- 44	- 61	- 67	- 73	- 87	- 60	- 5	+ 67	+128	+160	+158
November	- 30	- 32	- 35	- 30	- 47	- 79	- 87	- 76	- 38	+ 19	+ 64	+ 90	+ 97
December	- 24	- 29	- 31	- 43	- 73	-101	-103	- 87	- 70	- 12	+ 33	+ 68	+ 78
Year	- 43	- 41	- 43	- 55	- 56	- 54	- 41	- 7	+ 36	+ 82	+106	+111	+103
Winter	- 16	- 19	- 23	- 31	- 46	- 71	- 78	- 72	- 48	- 3	+ 34	+ 62	+ 73
Equinox	- 67	- 61	- 61	- 82	- 82	- 71	- 61	- 25	+ 31	+103	+134	+146	+134
Summer	- 47	- 43	- 46	- 51	- 40	- 20	+ 18	+ 77	+125	+147	+151	+124	+102
	HORIZONTAL INTENSITY (Unit 0.1γ)												
January	+ 15	+ 9	+ 5	+ 31	+ 32	+ 71	+100	+101	+ 72	+ 25	- 61	-144	-178
February	+ 24	+ 15	+ 23	+ 37	+ 37	+ 51	+ 50	+ 49	+ 15	- 51	- 85	-100	-112
March	+ 98	+ 91	+ 91	+ 93	+111	+ 92	+ 48	+ 54	+ 2	-111	-203	-273	-277
April	+ 60	+ 38	+ 35	+ 48	+ 72	+ 63	+ 95	+ 51	- 46	-151	-267	-329	-300
May	+ 69	+ 49	+ 42	+ 58	+ 55	+ 58	+ 19	- 60	-141	-225	-311	-293	-247
June	+124	+115	+112	+109	+ 62	+ 30	- 37	-152	-258	-318	-334	-324	-314
July	+ 28	+ 46	+ 55	+ 64	+ 73	+ 48	- 27	-123	-208	-274	-323	-335	-318
August	+114	+ 82	+ 77	+ 78	+ 67	+ 43	- 6	-101	-198	-267	-312	-301	-242
September	+127	+ 86	+ 76	+131	+ 66	+ 41	- 18	-124	-234	-405	-384	-349	-285
October	+101	+ 77	+ 71	+ 91	+ 99	+107	+124	+ 93	+ 12	-118	-246	-317	-315
November	+ 50	+ 40	+ 41	+ 31	+ 60	+107	+117	+ 97	+ 41	- 58	-145	-189	-190
December	+ 49	+ 46	+ 47	+ 54	+ 91	+130	+131	+104	+ 84	- 11	- 95	-156	-170
Year	+ 72	+ 58	+ 56	+ 69	+ 69	+ 70	+ 50	- 1	- 72	-164	-230	-259	-246
Winter	+ 34	+ 28	+ 29	+ 38	+ 55	+ 90	+100	+ 88	+ 53	- 24	- 96	-147	-162
Equinox	+ 96	+ 73	+ 68	+ 91	+ 87	+ 76	+ 62	+ 18	- 66	-196	-275	-317	-294
Summer	+ 84	+ 73	+ 72	+ 77	+ 64	+ 45	- 13	-109	-201	-271	-320	-313	-280

DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

All Days

DECLINATION WEST (Unit 0.01)

Universal Time. Hour commencing											Range	Month and Season, 1957
13	14	15	16	17	18	19	20	21	22	23		
+442	+528	+462	+351	+287	+255	+114	- 14	-138	-192	-270	7.98	January
+451	+430	+349	+257	+220	+175	+ 40	+ 24	- 74	-184	-236	8.10	February
+804	+814	+671	+420	+282	+162	+ 22	- 2	-230	-246	-284	12.60	March
+880	+883	+729	+520	+311	+104	+ 16	- 26	- 70	-175	-289	14.18	April
+808	+804	+660	+433	+220	+ 48	+ 3	- 1	+ 16	- 48	- 41	14.54	May
+782	+858	+797	+584	+434	+240	+ 63	+ 36	+ 13	- 21	- 96	15.96	June
+717	+792	+714	+524	+330	+194	+ 76	+ 99	+ 31	- 6	- 47	14.80	July
+803	+767	+610	+411	+242	+111	+ 54	+ 33	+ 13	- 55	-125	13.92	August
+908	+875	+793	+477	+219	+ 72	+ 55	+ 18	- 55	-186	-232	15.18	September
+655	+636	+551	+371	+283	+214	+111	+ 12	- 95	-178	-221	11.15	October
+454	+494	+399	+356	+343	+271	+149	- 32	-185	-246	-332	8.59	November
+432	+444	+370	+288	+286	+260	+162	+ 8	-137	-255	-326	7.70	December
+678	+694	+592	+416	+288	+175	+ 72	+ 13	- 76	-149	-208	12.06	Year
+445	+474	+395	+313	+284	+240	+116	- 3	-134	-219	-291	8.09	Winter
+812	+802	+686	+447	+274	+138	+ 51	+ 1	-113	-196	-257	13.28	Equinox
+778	+805	+695	+488	+306	+148	+ 49	+ 42	+ 18	- 32	- 77	14.81	Summer

INCLINATION (Unit 0.01)

+ 50	+ 38	+ 46	+ 45	+ 15	+ 16	+ 17	+ 4	+ 2	- 6	+ 4	1.57	January
+ 22	+ 14	+ 28	+ 53	+ 43	+ 15	+ 3	- 17	- 3	- 8	- 11	1.02	February
+ 86	+ 66	+ 41	+ 49	+ 33	+ 33	+ 10	- 20	- 23	- 31	- 31	2.15	March
+ 97	+ 72	+ 49	+ 21	- 22	- 45	- 54	- 49	- 58	- 36	- 57	2.09	April
+ 57	+ 36	+ 10	- 25	- 71	- 84	- 87	- 75	- 67	- 51	- 41	2.20	May
+ 81	+ 40	- 4	- 43	- 84	-103	- 118	-102	- 64	- 49	- 43	2.92	June
+ 92	+ 34	- 10	- 46	- 86	-124	- 126	-123	- 98	- 82	- 69	2.86	July
+ 64	+ 30	+ 16	- 33	- 56	- 80	-100	- 102	- 80	- 70	- 64	2.56	August
+ 51	+ 16	0	+ 4	- 17	+ 27	- 1	- 47	- 76	-101	-112	3.93	September
+124	+ 77	+ 52	+ 37	- 11	- 42	- 53	- 66	- 38	- 38	- 55	2.47	October
+ 97	+ 85	+ 71	+ 19	+ 5	- 9	- 20	- 14	- 17	- 4	- 24	1.84	November
+ 68	+ 68	+ 68	+ 37	+ 3	+ 8	+ 43	+ 32	+ 28	+ 31	+ 17	1.81	December
+ 74	+ 48	+ 31	+ 10	- 21	- 32	- 40	- 48	- 41	- 37	- 41	2.29	Year
+ 59	+ 51	+ 53	+ 38	+ 16	+ 8	+ 11	+ 1	+ 2	+ 3	- 4	1.56	Winter
+ 90	+ 58	+ 36	+ 28	- 4	- 7	- 24	- 46	- 49	- 52	- 64	2.66	Equinox
+ 74	+ 35	+ 3	- 37	- 74	- 98	- 108	-100	- 77	- 63	- 54	2.64	Summer

HORIZONTAL INTENSITY (Unit 0.1γ)

											Y	
-130	- 85	- 60	- 37	+ 13	+ 19	+ 29	+ 57	+ 59	+ 44	+ 14	27.9	January
- 68	- 33	- 30	- 49	- 26	+ 22	+ 45	+ 66	+ 42	+ 43	+ 35	17.8	February
-191	-109	- 18	+ 6	+ 47	+ 52	+ 72	+ 99	+ 91	+ 76	+ 63	38.8	March
-232	-133	- 42	+ 40	+131	+ 179	+175	+147	+142	+ 98	+116	50.8	April
-200	-113	- 16	+ 85	+190	+ 221	+212	+180	+151	+117	+ 91	53.2	May
-206	- 93	+ 30	+142	+226	+270	+ 283	+230	+145	+ 94	+ 71	61.7	June
-232	- 95	+ 22	+119	+210	+ 285	+284	+253	+192	+149	+117	62.0	July
-177	- 82	- 16	+ 90	+142	+185	+ 212	+204	+160	+136	+117	52.4	August
-111	+ 14	+134	+195	+ 224	+ 97	+125	+151	+152	+146	+137	62.9	September
-245	-145	- 63	- 20	+ 54	+ 99	+119	+ 137	+ 96	+ 92	+102	45.4	October
-169	-126	- 85	- 4	+ 22	+ 48	+ 69	+ 69	+ 69	+ 40	+ 60	30.7	November
-140	-110	- 82	- 25	+ 22	+ 18	- 14	+ 3	+ 7	- 3	+ 8	30.1	December
-175	- 92	- 19	+ 45	+105	+125	+ 134	+133	+109	+ 86	+ 78	44.5	Year
-127	- 89	- 64	- 29	+ 8	+ 27	+ 32	+ 49	+ 44	+ 31	+ 29	26.6	Winter
-195	- 93	+ 3	+ 55	+114	+107	+123	+ 134	+120	+103	+104	49.5	Equinox
-204	- 96	+ 5	+109	+192	+240	+ 248	+217	+164	+124	+ 99	57.3	Summer

TABLE V. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL

All Days

Month and Season, 1957	NORTH COMPONENT (Unit 0.1Y)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 37	+ 23	+ 23	+ 52	+ 49	+ 85	+114	+116	+ 91	+ 48	- 44	-143	-199
February	+ 48	+ 42	+ 57	+ 65	+ 56	+ 63	+ 62	+ 60	+ 26	- 42	- 85	-116	-143
March	+130	+122	+119	+121	+139	+110	+ 70	+ 83	+ 45	- 75	-188	-293	-328
April	+ 89	+ 65	+ 62	+ 79	+105	+ 90	+123	+ 93	+ 7	-103	-245	-347	-359
May	+ 80	+ 68	+ 62	+ 81	+ 81	+ 92	+ 70	+ 3	- 76	-176	-296	-315	-304
June	+132	+132	+137	+144	+100	+ 93	+ 27	- 78	-190	-269	-319	-347	-371
July	+ 39	+ 62	+ 77	+ 81	+ 97	+ 92	+ 30	- 54	-144	-220	-296	-344	-361
August	+132	+102	+ 96	+103	+ 99	+ 85	+ 47	- 42	-140	-224	-302	-328	-302
September	+153	+108	+100	+163	+103	+ 79	+ 24	- 70	-171	-355	-372	-381	-350
October	+123	+103	+ 92	+110	+117	+124	+140	+119	+ 55	- 72	-224	-327	-357
November	+ 84	+ 70	+ 66	+ 50	+ 73	+120	+131	+111	+ 62	- 35	-139	-206	-225
December	+ 76	+ 69	+ 73	+ 73	+101	+137	+142	+110	+ 98	+ 12	- 82	-166	-195
Year	+ 94	+ 80	+ 80	+ 93	+ 93	+ 97	+ 82	+ 38	- 28	-126	-216	-276	-291
Winter	+ 61	+ 51	+ 55	+ 60	+ 70	+101	+112	+ 99	+ 69	- 4	- 88	-158	-191
Equinox	+124	+100	+ 93	+118	+116	+101	+ 89	+ 56	- 16	-151	-257	-337	-348
Summer	+ 96	+ 91	+ 93	+102	+ 94	+ 90	+ 44	- 43	-138	-222	-303	-333	-334
	WEST COMPONENT (Unit 0.1Y)												
January	-120	- 76	- 98	-111	- 89	- 72	- 69	- 75	- 99	-126	- 97	- 21	+ 98
February	-132	-146	-187	-152	- 99	- 64	- 59	- 54	- 62	- 55	- 7	+ 80	+159
March	-169	-161	-147	-144	-142	- 89	-118	-152	-237	-208	-100	+ 87	+256
April	-156	-144	-147	-168	-175	-143	-145	-224	-293	-279	-146	+ 72	+298
May	- 56	- 98	-104	-120	-140	-183	-280	-351	-370	-290	-115	+ 96	+294
June	- 30	- 83	-127	-193	-204	-344	-356	-421	-395	-299	-115	+ 95	+286
July	- 59	- 85	-115	- 90	-126	-239	-315	-389	-371	-320	-179	+ 18	+209
August	- 86	-103	- 98	-129	-173	-225	-293	-332	-338	-261	- 81	+120	+306
September	-134	-114	-125	-166	-198	-205	-235	-311	-367	-314	- 99	+145	+332
October	-116	-136	-111	-100	- 95	- 83	- 80	-138	-239	-266	-148	+ 26	+202
November	-186	-161	-136	- 99	- 66	- 64	- 70	- 73	-117	-128	- 51	+ 78	+177
December	-145	-122	-137	-102	- 46	- 28	- 49	- 24	- 73	-130	- 80	+ 42	+124
Year	-116	-119	-128	-131	-129	-145	-172	-212	-247	-223	-102	+ 70	+228
Winter	-146	-126	-140	-116	- 75	- 57	- 62	- 57	- 88	-110	- 59	+ 45	+140
Equinox	-144	-139	-132	-144	-153	-130	-144	-206	-284	-267	-123	+ 83	+272
Summer	- 58	- 92	-111	-133	-161	-248	-311	-373	-368	-292	-122	+ 82	+274
	VERTICAL COMPONENT (Unit 0.1Y)												
January	+ 27	- 5	- 31	- 10	- 21	- 31	- 34	- 43	- 44	- 60	-114	-131	-145
February	+ 36	+ 13	+ 10	- 14	- 41	- 52	- 49	- 49	- 52	- 65	- 93	-122	-117
March	- 8	- 32	- 39	- 50	- 57	- 68	-100	- 60	- 50	-101	-169	-223	-214
April	+ 42	+ 15	- 7	- 16	- 27	- 50	- 43	- 31	- 65	-140	-231	-304	-299
May	+ 66	+ 56	+ 51	+ 44	+ 49	+ 64	+ 56	+ 22	- 43	-144	-259	-347	-356
June	+ 35	+ 6	- 28	- 31	- 22	- 1	0	- 13	- 54	-134	-229	-307	-294
July	- 12	- 13	- 4	- 10	- 4	+ 42	+ 42	+ 29	- 22	-100	-196	-278	-290
August	+ 33	+ 25	+ 9	+ 3	+ 18	+ 36	+ 40	+ 27	- 10	- 91	-191	-253	-252
September	- 99	-173	-182	-236	-247	-165	-110	- 92	- 81	-114	-158	-208	-182
October	+ 33	+ 23	+ 11	0	- 4	- 7	- 16	+ 7	+ 11	- 41	-125	-182	-183
November	+ 13	- 18	- 27	- 33	- 24	- 25	- 30	- 40	- 37	- 70	-114	-126	-104
December	+ 31	+ 7	+ 2	- 23	- 43	- 49	- 54	- 60	- 50	- 69	-106	-127	-123
Year	+ 16	- 8	- 20	- 32	- 35	- 26	- 25	- 25	- 42	- 94	-166	-218	-213
Winter	+ 27	- 1	- 12	- 20	- 32	- 39	- 42	- 48	- 46	- 66	-107	-127	-122
Equinox	- 8	- 42	- 54	- 76	- 84	- 72	- 67	- 44	- 46	- 99	-171	-229	-219
Summer	+ 30	+ 18	+ 7	+ 2	+ 10	+ 35	+ 34	+ 16	- 32	-117	-219	-296	-298

COMPONENTS OF MAGNETIC INTENSITY

All Days

NORTH COMPONENT (Unit 0.1Y)

Universal Time. Hour commencing											Range	Month and Season, 1957
13	14	15	16	17	18	19	20	21	22	23	Y	
-171	-135	-104	-70	-15	-6	+17	+57	+71	+62	+40	31.5	January
-111	-74	-63	-73	-47	+5	+40	+63	+48	+60	+57	20.8	February
-266	-186	-83	-35	+19	+35	+69	+98	+112	+99	+90	46.7	March
-314	-216	-112	-11	+99	+166	+171	+147	+147	+113	+142	53.0	April
-275	-189	-80	+42	+166	+213	+208	+177	+147	+120	+94	52.8	May
-278	-175	-48	+83	+180	+242	+272	+223	+141	+95	+79	64.3	June
-298	-170	-48	+66	+175	+262	+272	+239	+186	+147	+120	63.3	July
-252	-155	-75	+49	+116	+171	+203	+198	+156	+139	+127	53.1	August
-197	-71	+55	+146	+199	+88	+118	+147	+155	+162	+157	58.0	September
-305	-205	-116	-56	+25	+76	+106	+133	+103	+107	+122	49.7	October
-210	-172	-123	-38	-11	+21	+54	+71	+86	+63	+91	35.6	November
-180	-151	-117	-53	-6	-7	-29	+2	+20	+22	+39	33.7	December
-238	-158	-76	+4	+75	+105	+125	+130	+114	+99	+97	46.9	Year
-168	-133	-102	-59	-20	+3	+20	+48	+56	+52	+57	30.4	Winter
-270	-170	-64	+11	+86	+91	+116	+131	+129	+120	+128	51.9	Equinox
-276	-172	-63	+60	+159	+222	+239	+209	+158	+125	+105	58.4	Summer

WEST COMPONENT (Unit 0.1Y)

											Y	Month and Season, 1957
+213	+266	+236	+181	+155	+139	+66	+3	-63	-95	-141	40.7	January
+228	+223	+181	+128	+113	+97	+29	+25	-32	-90	-120	41.5	February
+395	+415	+355	+225	+159	+96	+25	+17	-106	-118	-140	65.2	March
+430	+447	+381	+284	+189	+87	+40	+12	-12	-76	-133	74.0	April
+395	+409	+349	+246	+151	+65	+39	+32	+35	-5	-6	77.9	May
+380	+441	+430	+337	+272	+176	+84	+60	+33	+6	-39	86.2	June
+341	+405	+385	+301	+213	+154	+91	+98	+51	+23	-4	79.4	July
+397	+394	+322	+235	+154	+92	+67	+54	+35	-5	-44	73.5	August
+464	+469	+447	+289	+157	+56	+52	+36	-2	-73	-99	83.6	September
+305	+313	+283	+194	+161	+132	+80	+30	-34	-79	-100	57.9	October
+212	+241	+198	+189	+187	+153	+91	-5	-87	-124	-166	42.7	November
+207	+218	+184	+149	+156	+142	+84	+5	-72	-136	-172	39.0	December
+331	+353	+313	+230	+172	+116	+62	+31	-21	-64	-97	63.5	Year
+215	+237	+200	+162	+153	+133	+68	+7	-64	-111	-150	41.0	Winter
+399	+411	+367	+248	+167	+93	+49	+24	-38	-86	-118	70.2	Equinox
+378	+412	+372	+280	+198	+122	+70	+61	+38	+5	-23	79.3	Summer

VERTICAL COMPONENT (Unit 0.1Y)

											Y	Month and Season, 1957
-130	-64	+22	+73	+83	+99	+127	+147	+145	+82	+48	29.2	January
-82	-27	+27	+71	+91	+102	+114	+96	+88	+73	+43	23.6	February
-146	-25	+101	+185	+223	+237	+203	+160	+133	+70	+39	46.0	March
-202	-60	+73	+168	+229	+260	+220	+173	+130	+102	+70	56.4	April
-266	-137	-3	+112	+194	+221	+192	+156	+117	+94	+68	57.7	May
-197	-77	+56	+181	+233	+271	+247	+181	+115	+48	+15	57.8	June
-219	-101	+17	+116	+188	+230	+222	+160	+106	+62	+33	52.0	July
-188	-85	+19	+95	+137	+151	+146	+119	+93	+71	+50	40.4	August
-79	+87	+311	+469	+461	+319	+287	+189	+90	-11	-73	71.6	September
-139	-68	+34	+83	+87	+85	+91	+90	+92	+81	+46	27.5	October
-56	+4	+48	+57	+68	+80	+92	+111	+100	+78	+56	23.7	November
-90	-19	+45	+70	+61	+69	+116	+118	+115	+102	+77	24.5	December
-150	-48	+62	+140	+171	+177	+171	+142	+110	+71	+39	42.5	Year
-90	-27	+35	+68	+76	+87	+112	+118	+112	+84	+56	25.2	Winter
-142	-16	+130	+226	+250	+225	+200	+153	+111	+60	+20	50.4	Equinox
-218	-100	+22	+126	+188	+218	+202	+154	+108	+69	+42	52.0	Summer

TABLE VI. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

International Quiet Days													
DECLINATION WEST (Unit 0.01)													
Month and Season, 1957	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-118	-104	-86	-48	-72	-110	-130	-156	-200	-272	-220	-20	+208
February	-146	-186	-182	-210	-164	-146	-160	-152	-188	-182	-66	+114	+218
March	-237	-165	-163	-161	-179	-185	-203	-299	-361	-327	-115	+161	+431
April	-31	-47	-85	-177	-253	-277	-361	-541	-599	-535	-321	+33	+443
May	-94	-106	-108	-128	-214	-368	-554	-662	-616	-400	-84	+252	+604
June	-5	-29	-77	-101	-233	-485	-719	-785	-745	-527	-177	+211	+609
July	-9	-7	-51	-175	-297	-479	-655	-727	-745	-521	-189	+193	+559
August	-90	-156	-196	-258	-332	-422	-510	-578	-576	-408	-60	+254	+528
September	-59	-95	-131	-199	-249	-329	-463	-589	-643	-495	-167	+267	+589
October	-185	-173	-173	-187	-201	-231	-253	-353	-553	-571	-335	+39	+347
November	-141	-117	-107	-109	-125	-131	-189	-237	-319	-341	-187	+91	+271
December	-169	-147	-169	-139	-61	-57	-105	-157	-205	-349	-267	-19	+165
Year	-107	-111	-127	-158	-198	-268	-358	-436	-479	-411	-182	+131	+414
Winter	-143	-138	-136	-127	-105	-111	-146	-175	-228	-286	-185	+41	+215
Equinox	-128	-120	-138	-181	-220	-255	-320	-445	-539	-482	-234	+125	+453
Summer	-50	-74	-108	-166	-269	-438	-610	-688	-670	-464	-128	+228	+575
INCLINATION (Unit 0.01)													
January	-5	+6	-4	-9	-20	-36	-51	-51	-44	-15	+40	+96	+127
February	+25	+33	+15	+16	+12	+5	-18	-24	-22	-2	+15	+15	+5
March	+30	+1	-25	-48	-32	-46	-51	-37	-8	+46	+103	+124	+105
April	-16	-7	-7	+7	-6	-19	-26	+9	+58	+90	+124	+120	+95
May	+6	+14	+27	+17	+6	+12	+47	+100	+123	+100	+59	+26	-21
June	-17	+1	+2	-12	-11	-4	+30	+85	+123	+135	+132	+115	+70
July	-35	-19	-8	-20	-25	-12	+38	+100	+159	+190	+153	+115	+69
August	-16	-10	-3	+6	+10	+23	+39	+74	+121	+128	+109	+85	+60
September	-48	-44	-37	-24	-14	-10	0	+38	+103	+149	+173	+156	+98
October	-42	-24	-20	-28	-32	-29	-30	-7	+42	+101	+152	+173	+154
November	-3	-3	-5	-10	-11	-42	-50	-43	-2	+46	+78	+100	+102
December	-15	-15	-19	-9	-8	-12	-7	-7	0	+29	+74	+112	+111
Year	-11	-6	-7	-10	-11	-14	-7	+20	+54	+83	+101	+103	+81
Winter	0	+5	-3	-3	-7	-21	-32	-31	-17	+14	+52	+81	+86
Equinox	-19	-19	-22	-24	-21	-26	-27	+1	+49	+97	+138	+143	+113
Summer	-16	-4	+4	-2	-5	+5	+38	+90	+132	+138	+113	+83	+44
HORIZONTAL INTENSITY (Unit 0.1γ)													
January	+22	+4	+16	+24	+42	+66	+86	+82	+66	+20	-92	-186	-238
February	-8	-20	+2	-4	-4	+6	+36	+40	+34	-6	-54	-74	-62
March	-7	+25	+55	+81	+53	+73	+77	+67	+17	-87	-205	-257	-233
April	+49	+35	+37	+21	+43	+57	+71	+21	-77	-165	-259	-293	-271
May	+15	+5	-7	+15	+43	+41	-19	-119	-191	-209	-203	-187	-125
June	+53	+31	+33	+57	+63	+67	+13	-91	-187	-255	-299	-309	-241
July	+78	+58	+46	+68	+90	+88	+8	-104	-224	-326	-332	-322	-250
August	+63	+55	+45	+31	+29	+13	-15	-77	-165	-215	-239	-237	-207
September	+105	+99	+89	+73	+59	+53	+43	-15	-131	-235	-325	-345	-265
October	+101	+73	+65	+73	+75	+67	+65	+43	-33	-151	-269	-335	-317
November	+29	+23	+27	+31	+39	+69	+77	+63	+5	-85	-159	-201	-193
December	+39	+35	+39	+21	+19	+29	+23	+21	+11	-41	-143	-211	-215
Year	+45	+35	+37	+41	+46	+52	+39	-6	-73	-146	-215	-246	-218
Winter	+21	+10	+21	+18	+24	+43	+56	+51	+29	-28	-112	-168	-177
Equinox	+62	+58	+62	+62	+58	+62	+64	+29	-56	-159	-264	-308	-272
Summer	+52	+37	+29	+43	+56	+52	-3	-98	-192	-251	-268	-264	-206

DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

International Quiet Days

DECLINATION WEST (Unit 0.01)

Universal Time. Hour commencing											Range	Month and Season, 1957
13	14	15	16	17	18	19	20	21	22	23		
+384	+422	+334	+226	+144	+ 88	+ 34	- 36	- 76	- 88	- 98	6.94	January
+310	+304	+236	+162	+182	+168	+122	+ 60	+ 6	- 36	- 72	5.20	February
+579	+573	+431	+177	+121	+ 91	+ 27	+ 9	- 41	- 67	-101	9.40	March
+681	+663	+511	+353	+191	+ 71	+ 69	+ 77	+ 89	+ 41	+ 17	12.80	April
+790	+786	+612	+360	+122	- 32	- 86	- 44	0	- 22	+ 2	14.52	May
+765	+759	+649	+411	+199	+ 77	+ 3	+ 35	+ 57	+ 79	+ 39	15.50	June
+735	+761	+649	+449	+235	+ 83	+ 33	+ 59	+ 33	+ 43	+ 31	15.06	July
+672	+664	+534	+324	+176	+106	+120	+114	+ 84	+ 20	- 18	12.50	August
+685	+661	+499	+315	+179	+123	+ 63	+ 39	+ 53	+ 13	- 65	13.28	September
+549	+619	+505	+347	+247	+221	+183	+125	+ 65	- 3	- 31	11.90	October
+355	+361	+317	+251	+205	+203	+147	+ 89	+ 9	-107	-195	7.02	November
+329	+359	+299	+229	+201	+189	+183	+143	- 13	- 85	-157	7.08	December
+570	+578	+465	+300	+183	+116	+ 75	+ 56	+ 22	- 18	- 54	10.93	Year
+345	+361	+297	+217	+183	+162	+121	+ 64	- 18	- 79	-130	6.56	Winter
+623	+629	+487	+298	+185	+127	+ 85	+ 63	+ 41	- 4	- 45	11.84	Equinox
+740	+742	+611	+386	+183	+ 58	+ 18	+ 41	+ 44	+ 30	+ 14	14.40	Summer

INCLINATION (Unit 0.01)

+ 89	+ 65	+ 45	+ 29	- 3	- 34	- 42	- 48	- 53	- 48	- 37	1.80	January
- 5	+ 11	+ 35	+ 35	+ 13	- 12	- 28	- 38	- 34	- 30	- 20	0.73	February
+ 77	+ 57	+ 49	+ 38	+ 28	- 28	- 60	- 81	- 90	- 77	- 75	2.14	March
+ 95	+ 94	+ 58	- 1	- 65	- 95	- 88	- 92	-114	-116	-107	2.40	April
- 15	+ 1	0	- 17	- 77	- 93	- 94	- 69	- 72	- 43	- 35	2.17	May
+ 55	+ 45	- 33	- 64	- 89	- 98	- 86	-105	- 98	- 92	- 90	2.40	June
+ 45	+ 22	- 39	- 59	- 76	- 90	-102	-109	-106	- 96	- 85	2.99	July
+ 22	- 4	- 16	- 37	- 44	- 70	- 99	-106	-110	- 95	- 75	2.38	August
+ 34	- 6	- 6	- 14	- 19	- 57	- 65	- 76	-106	-110	-110	2.83	September
+104	+ 59	+ 41	+ 7	- 36	- 82	- 96	-104	-104	-100	- 92	2.77	October
+ 88	+ 69	+ 38	+ 2	- 50	- 68	- 70	- 61	- 38	- 40	- 27	1.72	November
+ 75	+ 63	+ 29	- 12	- 44	- 76	- 85	- 73	- 46	- 30	- 28	1.97	December
+ 55	+ 40	+ 17	- 8	- 39	- 67	- 76	- 80	- 81	- 73	- 65	2.19	Year
+ 62	+ 52	+ 37	+ 13	- 21	- 47	- 56	- 55	- 43	- 37	- 28	1.55	Winter
+ 78	+ 51	+ 35	+ 7	- 23	- 66	- 78	- 88	-104	-101	- 96	2.54	Equinox
+ 27	+ 16	- 22	- 44	- 72	- 88	- 95	- 97	- 96	- 82	- 72	2.49	Summer

HORIZONTAL INTENSITY (Unit 0.1γ)

											γ	
-180	-120	- 66	- 24	+ 26	+ 66	+ 76	+ 86	+ 88	+ 76	+ 56	32.6	January
- 42	- 46	- 64	- 56	- 18	+ 26	+ 54	+ 74	+ 68	+ 62	+ 48	14.8	February
-177	-119	- 69	- 19	- 3	+ 73	+113	+137	+151	+131	+127	40.8	March
-241	-185	- 91	+ 17	+137	+193	+173	+167	+195	+195	+181	48.8	April
- 97	- 65	- 7	+ 63	+179	+209	+203	+147	+139	+ 91	+ 81	41.8	May
-189	-127	+ 43	+129	+191	+205	+171	+185	+165	+153	+149	51.4	June
-182	- 96	+ 52	+122	+166	+186	+194	+192	+180	+156	+142	52.6	July
-119	- 39	+ 17	+ 65	+ 85	+119	+159	+171	+179	+159	+133	41.8	August
-155	- 57	- 15	+ 31	+ 53	+111	+127	+141	+179	+187	+185	53.2	September
-229	-135	- 75	- 3	+ 57	+127	+149	+163	+167	+163	+151	50.2	October
-155	-109	- 51	+ 7	+ 77	+ 97	+105	+ 99	+ 73	+ 81	+ 63	30.6	November
-159	-119	- 45	+ 25	+ 69	+119	+135	+121	+ 91	+ 75	+ 71	35.0	December
-160	-101	- 31	+ 30	+ 85	+128	+138	+140	+140	+127	+116	41.1	Year
-134	- 98	- 56	- 12	+ 39	+ 77	+ 93	+ 95	+ 80	+ 74	+ 60	28.2	Winter
-200	-124	- 62	+ 6	+ 61	+126	+140	+152	+173	+169	+161	48.2	Equinox
-147	- 82	+ 26	+ 95	+155	+180	+182	+174	+166	+140	+126	46.9	Summer

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

Month and Season, 1957	NORTH COMPONENT (Unit 0.1γ)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 33	+ 14	+ 24	+ 29	+ 48	+ 76	+ 97	+ 96	+ 84	+ 46	- 69	-181	-254
February	+ 6	- 2	+ 20	+ 16	+ 12	+ 20	+ 51	+ 54	+ 52	+ 12	- 47	- 84	- 82
March	+ 16	+ 41	+ 70	+ 95	+ 69	+ 89	+ 95	+ 95	+ 52	- 54	-191	-268	-271
April	+ 51	+ 39	+ 45	+ 38	+ 67	+ 83	+105	+ 73	- 18	-111	-224	-292	-311
May	+ 24	+ 15	+ 4	+ 27	+ 63	+ 76	+ 35	- 53	-128	-167	-192	-208	-182
June	+ 53	+ 33	+ 40	+ 66	+ 85	+113	+ 82	- 13	-112	-200	-277	-325	-296
July	+ 78	+ 58	+ 50	+ 84	+117	+133	+ 71	- 32	-148	-270	-308	-336	-301
August	+ 71	+ 69	+ 63	+ 56	+ 61	+ 54	+ 35	- 20	-107	-172	-229	-258	-255
September	+109	+107	+100	+ 91	+ 82	+ 84	+ 87	+ 42	- 67	-183	-304	-365	-318
October	+117	+ 89	+ 81	+ 90	+ 93	+ 88	+ 88	+ 77	+ 21	- 93	-232	-333	-346
November	+ 42	+ 34	+ 37	+ 41	+ 50	+ 80	+ 94	+ 85	+ 36	- 51	-138	-207	-216
December	+ 55	+ 49	+ 55	+ 34	+ 25	+ 34	+ 33	+ 36	+ 31	- 6	-115	-206	-228
Year	+ 55	+ 46	+ 49	+ 56	+ 64	+ 77	+ 73	+ 37	- 25	-104	-194	-255	-255
Winter	+ 34	+ 24	+ 34	+ 30	+ 34	+ 53	+ 69	+ 65	+ 51	0	- 92	-169	-195
Equinox	+ 73	+ 69	+ 74	+ 78	+ 78	+ 86	+ 94	+ 72	- 3	-110	-238	-314	-312
Summer	+ 56	+ 44	+ 39	+ 58	+ 82	+ 94	+ 56	- 30	-124	-202	-252	-282	-258
	WEST COMPONENT (Unit 0.1γ)												
January	- 59	- 55	- 43	- 22	- 31	- 47	- 54	- 69	- 95	-142	-134	- 44	+ 68
February	- 79	-102	- 96	-112	- 88	- 76	- 79	- 74	- 94	- 98	- 44	+ 48	+106
March	-127	- 83	- 77	- 71	- 86	- 86	- 94	-147	-189	-190	- 98	+ 40	+188
April	- 8	- 19	- 39	- 91	-127	-138	-180	-285	-330	-315	-217	- 35	+188
May	- 47	- 56	- 59	- 66	-106	-189	-299	-374	-362	-250	- 81	+101	+300
June	+ 7	- 10	- 35	- 44	-113	-247	-381	-434	-430	-326	-148	+ 58	+282
July	+ 9	+ 7	- 19	- 81	-142	-240	-348	-406	-437	-336	-160	+ 45	+254
August	- 37	- 73	- 96	-132	-172	-223	-275	-322	-336	-256	- 73	+ 93	+245
September	- 13	- 33	- 54	- 93	-122	-166	-239	-317	-366	-306	-147	+ 81	+267
October	- 81	- 79	- 81	- 87	- 94	-111	-123	-181	-301	-331	-227	- 39	+129
November	- 70	- 58	- 52	- 53	- 60	- 57	- 87	-115	-169	-197	-128	+ 13	+110
December	- 83	- 72	- 83	- 70	- 29	- 25	- 52	- 80	-107	-193	-168	- 48	+ 50
Year	- 49	- 53	- 61	- 77	- 97	-134	-184	-234	-268	-245	-135	+ 26	+182
Winter	- 73	- 72	- 69	- 64	- 52	- 51	- 68	- 85	-116	-158	-119	- 8	+ 83
Equinox	- 57	- 54	- 63	- 86	-107	-125	-159	-233	-297	-286	-172	+ 12	+193
Summer	- 17	- 33	- 52	- 81	-133	-225	-326	-384	-391	-292	-116	+ 74	+270
	VERTICAL COMPONENT (Unit 0.1γ)												
January	+ 34	+ 30	+ 24	+ 26	+ 30	+ 30	+ 22	+ 12	+ 2	- 4	- 74	- 98	-112
February	+ 72	+ 70	+ 58	+ 48	+ 34	+ 32	+ 22	+ 8	+ 2	- 22	- 74	-118	-128
March	+ 89	+ 61	+ 41	+ 23	+ 11	+ 9	+ 1	+ 27	+ 11	- 43	-119	-167	-177
April	+ 59	+ 57	+ 63	+ 73	+ 79	+ 65	+ 73	+ 81	+ 25	- 71	-169	-261	-297
May	+ 55	+ 61	+ 79	+ 93	+121	+137	+119	+ 71	- 15	-139	-267	-343	-367
June	+ 64	+ 74	+ 84	+ 90	+108	+142	+134	+ 84	- 8	-122	-236	-318	-316
July	+ 60	+ 68	+ 80	+ 90	+124	+162	+152	+106	+ 32	- 98	-240	-350	-340
August	+ 92	+ 94	+ 94	+ 94	+102	+110	+102	+ 80	+ 38	- 56	-176	-254	-272
September	+ 77	+ 77	+ 79	+ 87	+ 89	+ 89	+101	+ 97	+ 53	- 27	-153	-261	-275
October	+ 90	+ 86	+ 82	+ 72	+ 64	+ 56	+ 48	+ 74	+ 68	+ 4	- 96	-176	-202
November	+ 56	+ 44	+ 46	+ 36	+ 28	+ 16	+ 4	- 4	+ 6	- 38	- 98	-120	- 94
December	+ 40	+ 28	+ 24	+ 18	+ 18	+ 24	+ 28	+ 24	+ 24	+ 4	- 74	-102	-114
Year	+ 66	+ 62	+ 63	+ 62	+ 67	+ 73	+ 67	+ 55	+ 20	- 51	-148	-214	-225
Winter	+ 51	+ 43	+ 38	+ 32	+ 28	+ 26	+ 19	+ 10	+ 9	- 15	- 80	-109	-112
Equinox	+ 79	+ 70	+ 66	+ 64	+ 60	+ 55	+ 56	+ 70	+ 39	- 34	-134	-216	-238
Summer	+ 68	+ 74	+ 84	+ 92	+114	+138	+127	+ 85	+ 12	-104	-230	-316	-324

COMPONENTS OF MAGNETIC INTENSITY

International Quiet Days

NORTH COMPONENT (Unit 0.1 γ)

Universal Time. Hour commencing											Range	Month and Season, 1957
13	14	15	16	17	18	19	20	21	22	23	γ	
-214	-159	-97	-45	+12	+56	+72	+88	+94	+83	+65	35.1	January
-71	-75	-86	-71	-35	+9	+41	+67	+66	+64	+54	15.3	February
-230	-173	-110	-36	-15	+63	+109	+134	+153	+135	+135	42.4	March
-303	-246	-139	-17	+116	+183	+164	+157	+183	+188	+176	49.9	April
-172	-140	-66	+27	+164	+209	+208	+149	+137	+92	+80	41.7	May
-260	-199	-21	+87	+169	+194	+168	+179	+157	+143	+143	51.9	June
-250	-168	-12	+77	+141	+175	+188	+183	+174	+149	+137	52.4	July
-182	-103	-37	+33	+67	+107	+145	+157	+168	+155	+133	42.6	August
-219	-120	-63	0	+35	+97	+119	+135	+171	+183	+188	55.3	September
-279	-193	-123	-37	+32	+104	+129	+148	+158	+161	+152	50.7	October
-187	-142	-81	-18	+56	+76	+89	+89	+71	+90	+81	31.0	November
-188	-152	-73	+2	+48	+99	+115	+105	+91	+82	+85	34.3	December
-213	-156	-76	0	+66	+114	+129	+133	+135	+127	+119	41.9	Year
-165	-132	-84	-33	+20	+60	+79	+87	+81	+80	+71	28.9	Winter
-258	-183	-109	-22	+42	+112	+130	+143	+166	+167	+163	49.6	Equinox
-216	-152	-34	+56	+135	+171	+177	+167	+159	+135	+123	47.2	Summer

WEST COMPONENT (Unit 0.1 γ)

											γ	
+172	+203	+166	+116	+81	+59	+31	-4	-25	-34	-43	34.5	January
+158	+154	+115	+77	+94	+95	+75	+46	+16	-8	-29	27.0	February
+277	+284	+217	+91	+64	+62	+35	+29	+5	-12	-31	47.4	March
+320	+321	+256	+191	+126	+72	+68	+71	+82	+57	+41	65.1	April
+404	+408	+325	+203	+97	+20	-10	+3	+25	+4	+15	78.2	May
+374	+377	+354	+242	+140	+78	+32	+52	+60	+69	+47	81.1	June
+360	+389	+355	+261	+155	+77	+52	+66	+50	+51	+42	82.6	July
+337	+347	+288	+184	+109	+78	+92	+91	+77	+39	+14	68.3	August
+338	+342	+263	+173	+105	+85	+56	+46	+60	+40	-2	70.8	September
+252	+306	+256	+184	+142	+140	+124	+96	+64	+27	+10	63.7	October
+162	+173	+160	+135	+123	+126	+97	+65	+18	-43	-93	37.0	November
+147	+170	+151	+127	+119	+122	+122	+98	+9	-32	-71	36.3	December
+275	+290	+242	+165	+113	+84	+64	+55	+37	+13	-8	57.7	Year
+160	+175	+148	+114	+104	+101	+81	+51	+5	-29	-59	33.7	Winter
+297	+313	+248	+160	+109	+90	+71	+61	+53	+28	+4	61.8	Equinox
+369	+380	+330	+222	+125	+63	+42	+53	+53	+41	+30	77.6	Summer

VERTICAL COMPONENT (Unit 0.1 γ)

											γ	
-110	-54	+4	+44	+50	+34	+32	+34	+22	+10	+2	16.2	January
-116	-68	-28	-10	+4	+18	+28	+40	+38	+40	+44	20.0	February
-145	-77	+11	+89	+89	+71	+55	+37	+37	+35	+33	26.6	March
-229	-103	-11	+35	+91	+119	+95	+71	+57	+49	+49	41.6	April
-277	-149	-17	+87	+149	+163	+145	+103	+71	+61	+65	53.0	May
-248	-140	-14	+76	+136	+134	+98	+64	+44	+34	+34	46.0	June
-266	-148	-16	+78	+122	+120	+96	+68	+48	+30	+34	51.2	July
-200	-106	-16	+24	+44	+34	+26	+28	+34	+40	+48	38.2	August
-241	-155	-55	+23	+57	+61	+69	+65	+49	+53	+49	37.6	September
-170	-116	-32	+18	+8	+10	+12	+16	+26	+32	+32	29.2	October
-54	-14	+14	+22	+6	-12	+2	+16	+36	+48	+52	17.6	November
-110	-56	-2	+18	+8	+12	+18	+26	+46	+44	+42	16.0	December
-180	-99	-14	+42	+64	+64	+56	+47	+42	+40	+40	32.8	Year
-97	-48	-3	+19	+17	+13	+20	+29	+36	+36	+35	17.5	Winter
-196	-113	-22	+41	+61	+65	+58	+47	+42	+42	+40	33.8	Equinox
-248	-136	-16	+66	+113	+113	+91	+66	+49	+41	+45	47.3	Summer

TABLE VII. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

International Disturbed Days													
DECLINATION WEST (Unit 0.01)													
Month and Season, 1957	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-376	-108	-236	-460	-322	-254	-126	-206	-230	-140	-102	-14	+254
February	-369	-507	-913	-731	-327	+39	+45	+5	-15	+19	+203	+391	+637
March	-619	-505	-375	-427	-519	+21	-285	-291	-465	-239	-69	+431	+709
April	-744	-546	-680	-714	-650	-350	-260	-172	-336	-282	0	+336	+742
May	-210	-398	-426	-444	-358	-360	-456	-570	-672	-516	-86	+370	+724
June	-158	-408	-452	-622	-472	-380	-460	-554	-432	-370	+28	+408	+844
July	-396	-601	-633	-53	-83	-416	-576	-733	-493	-591	-316	+109	+421
August	-344	-466	-372	-390	-366	-376	-574	-528	-452	-316	+90	+404	+694
September	-397	-523	-611	-809	-671	-715	-215	-253	-653	-515	+87	+469	+805
October	-425	-465	-251	-325	-273	-27	-7	-221	-455	-435	-187	+127	+475
November	-630	-606	-516	-370	-180	-144	-156	-18	-4	0	+62	+268	+406
December	-383	-509	-577	-313	-13	+129	-9	+91	-57	-157	-49	+225	+333
Year	-421	-470	-503	-471	-353	-236	-256	-287	-355	-295	-28	+294	+587
Winter	-440	-432	-560	-468	-210	-58	-62	-32	-76	-70	+28	+218	+408
Equinox	-546	-510	-479	-568	-528	-268	-192	-234	-477	-368	-42	+341	+683
Summer	-277	-468	-471	-377	-320	-383	-516	-596	-512	-448	-71	+323	+671
INCLINATION (Unit 0.01)													
January	+50	-16	-20	-64	-58	-153	-187	-133	-72	-38	+22	+91	+104
February	-75	-67	-104	-155	-140	-160	-152	-124	-25	+90	+135	+121	+119
March	-267	-180	-257	-301	-346	-252	-172	-153	-58	+8	+43	+190	+289
April	+12	+8	-59	-181	-183	-127	-102	-49	+27	+88	+144	+229	+183
May	-118	-114	-96	-95	-89	-93	-78	-16	+57	+131	+197	+139	+86
June	-127	-181	-194	-217	-156	-128	-81	+4	+150	+197	+217	+186	+258
July	+36	-71	-120	-106	-112	-50	+25	+142	+208	+234	+257	+204	+263
August	-151	-21	-43	-90	-54	-50	+28	+141	+188	+191	+157	+173	+97
September	-365	-430	-335	-463	-353	-203	-85	+163	+310	+598	+376	+280	+194
October	-51	-38	-77	-127	-114	-127	-192	-153	-74	+13	+97	+136	+146
November	-116	-63	-70	-59	-36	-96	-120	-115	-87	-50	-26	+11	+23
December	-94	-94	-73	-66	-157	-186	-223	-150	-142	-63	-33	+50	+80
Year	-106	-106	-121	-160	-150	-135	-112	-37	+40	+117	+132	+151	+153
Winter	-59	-60	-67	-86	-98	-149	-171	-131	-82	-15	+25	+68	+81
Equinox	-168	-160	-182	-268	-249	-177	-138	-48	+51	+177	+165	+209	+203
Summer	-90	-97	-113	-127	-103	-80	-26	+68	+151	+188	+207	+176	+176
HORIZONTAL INTENSITY (Unit 0.1γ)													
January	-66	-36	-100	+36	+22	+146	+204	+136	+58	-2	-102	-202	-224
February	+115	+65	+127	+157	+95	+113	+123	+107	-29	-193	-257	-233	-209
March	+317	+189	+315	+367	+413	+253	+27	+37	-51	-135	-187	-405	-507
April	+17	-3	+55	+191	+167	+77	+59	+1	-107	-207	-313	-449	-369
May	+192	+178	+134	+116	+94	+110	+90	-4	-126	-278	-430	-362	-270
June	+190	+240	+214	+214	+88	+42	-16	-116	-324	-394	-440	-416	-488
July	-145	+17	+93	+39	+25	-25	-113	-261	-351	-399	-447	-397	-493
August	+209	+57	+57	+103	+43	+39	-71	-243	-323	-355	-345	-375	-235
September	+394	+450	+256	+318	+130	+10	-154	-536	-680	-1084	-652	-482	-314
October	+102	+46	+76	+148	+128	+138	+220	+184	+80	-60	-210	-278	-288
November	+145	+67	+51	+9	-1	+105	+145	+121	+75	+17	-25	-87	-95
December	+132	+126	+88	+50	+164	+204	+262	+154	+156	+34	-12	-148	-176
Year	+134	+116	+114	+146	+114	+101	+65	-35	-135	-255	-285	-320	-306
Winter	+81	+55	+41	+63	+70	+142	+183	+129	+65	-36	-99	-168	-176
Equinox	+208	+170	+176	+256	+210	+120	+38	-78	-190	-372	-340	-404	-369
Summer	+112	+123	+125	+118	+63	+42	-27	-156	-281	-356	-416	-387	-371

DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

International Disturbed Days

DECLINATION WEST (Unit 0'.01)

Universal Time. Hour commencing											Range	Month and Season, 1957
13	14	15	16	17	18	19	20	21	22	23		
+584	+698	+676	+486	+392	+414	+150	- 44	-222	-338	-468	11.66	January
+815	+631	+505	+397	+167	+307	-185	-147	-313	-363	-281	17.28	February
+1027	+1239	+1015	+405	+507	+119	+ 19	+109	-667	-499	-633	19.06	March
+948	+954	+890	+552	+398	+172	+158	+106	+ 36	-148	-404	16.98	April
+910	+854	+778	+570	+320	+ 92	- 22	- 64	- 10	- 36	+ 10	15.82	May
+824	+900	+830	+510	+550	+330	- 92	- 28	-128	- 92	-578	15.22	June
+721	+939	+934	+794	+521	+444	+167	+127	- 33	- 36	-219	16.72	July
+842	+780	+630	+542	+382	+128	- 40	- 36	+ 52	- 68	-206	14.16	August
+1265	+1343	+1411	+761	+373	- 75	+135	+ 99	-169	-515	-623	22.20	September
+805	+705	+601	+487	+317	+203	+211	+ 41	-241	-295	-375	12.70	October
+494	+656	+480	+592	+660	+452	+208	-176	-578	-450	-442	12.90	November
+567	+533	+481	+357	+461	+347	+175	-183	-319	-571	-549	11.44	December
+817	+853	+769	+538	+421	+244	+ 74	- 16	-216	-284	-397	15.51	Year
+615	+630	+536	+458	+420	+380	+ 87	-138	-358	-430	-435	13.32	Winter
+1012	+1060	+980	+552	+399	+105	+131	+ 89	-260	-364	-508	17.74	Equinox
+824	+868	+793	+604	+443	+248	+ 3	0	- 30	- 58	-248	15.48	Summer

INCLINATION (Unit 0'.01)

+ 44	+ 28	+ 37	+ 56	+ 37	+ 50	+ 53	- 9	+ 58	+ 36	+ 84	2.91	January
+ 90	+ 66	+ 54	+ 96	+ 50	+ 8	+ 75	+ 18	+ 35	+ 51	- 5	2.95	February
+189	+171	+109	+216	+ 46	+167	+107	+ 90	+184	+ 74	+101	6.35	March
+156	+117	+ 84	+ 4	- 45	- 60	- 56	- 52	- 74	- 4	- 56	4.12	April
+109	+145	+ 74	+ 33	- 31	- 49	- 87	- 67	- 37	- 8	- 4	3.15	May
+118	+ 25	+ 12	- 87	- 54	- 74	-123	- 64	+ 71	+112	+143	4.75	June
+162	- 19	- 90	-108	-119	-211	-186	-140	- 88	- 76	- 33	4.74	July
+131	+ 87	+ 45	-134	-180	-168	- 56	- 79	- 93	- 80	- 37	3.71	August
- 54	-144	-143	- 61	-173	+289	+281	+145	+183	+ 16	- 35	10.61	September
+113	+126	+ 72	+ 73	+ 42	- 21	- 7	+ 13	+ 85	+ 56	+ 20	3.38	October
+ 25	+ 18	+ 44	- 46	+104	+153	+152	+129	+108	+111	+ 10	2.73	November
+ 52	+100	+117	+ 76	+ 51	+ 76	+172	+133	+127	+160	+ 88	3.95	December
+ 95	+ 60	+ 35	+ 10	- 23	+ 13	+ 27	+ 10	+ 47	+ 37	+ 23	4.45	Year
+ 53	+ 53	+ 63	+ 45	+ 61	+ 72	+113	+ 68	+ 82	+ 89	+ 44	3.14	Winter
+101	+ 68	+ 30	+ 58	- 32	+ 94	+ 81	+ 49	+ 94	+ 35	+ 8	6.12	Equinox
+130	+ 60	+ 10	- 74	- 96	-126	-113	- 88	- 37	- 13	+ 17	4.09	Summer

HORIZONTAL INTENSITY (Unit 0.1Y)

											Y	
-122	- 68	- 24	- 18	+ 32	+ 54	+ 58	+190	+116	+ 22	-110	42.8	January
-119	- 37	+ 7	- 45	+ 31	+ 75	+ 9	+ 61	+ 23	- 19	+ 33	41.4	February
-299	-135	+ 75	-101	+127	- 9	+ 27	+ 15	-127	- 69	-131	92.0	March
-279	-161	- 49	+123	+213	+257	+215	+179	+187	+ 71	+133	70.6	April
-258	-250	- 86	+ 38	+184	+220	+258	+204	+126	+ 66	+ 48	68.8	May
-176	+ 32	+134	+406	+328	+370	+408	+218	- 50	-208	-262	89.6	June
-283	+ 69	+229	+303	+353	+505	+467	+357	+223	+153	+ 71	99.8	July
-259	-151	- 43	+271	+379	+393	+221	+215	+193	+153	+ 75	76.8	August
+156	+452	+748	+740	+900	- 86	-106	- 82	-162	- 64	-142	198.4	September
-210	-192	- 44	- 30	+ 14	+104	+ 76	+ 62	- 36	- 16	- 16	50.8	October
- 71	- 23	- 25	+101	- 77	-113	-111	- 71	- 65	- 89	+ 15	25.8	November
-110	-134	-126	- 40	- 14	- 46	-138	- 98	- 96	-158	- 70	43.8	December
-169	- 50	+ 66	+146	+206	+144	+115	+104	+ 28	- 13	- 30	75.0	Year
-106	- 66	- 42	- 1	- 7	- 8	- 46	+ 20	- 6	- 61	- 33	38.4	Winter
-158	- 9	+182	+183	+314	+ 66	+ 53	+ 44	- 34	- 20	- 39	103.0	Equinox
-244	- 75	+ 59	+255	+311	+372	+339	+249	+123	+ 41	- 17	83.7	Summer

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

Month and Season, 1957	NORTH COMPONENT (Unit 0.1γ)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	- 28	- 25	- 75	+ 80	+ 53	+168	+213	+154	+ 79	+ 12	- 90	-197	-245
February	+149	+113	+213	+224	+125	+107	+117	+105	- 27	-192	-273	-267	-267
March	+372	+235	+346	+403	+457	+247	+ 54	+ 65	- 5	-110	-177	-440	-568
April	+ 89	+ 50	+120	+257	+227	+110	+ 83	+ 18	- 73	-176	-308	-474	-435
May	+209	+214	+173	+157	+127	+143	+133	+ 51	- 59	-224	-415	-392	-336
June	+202	+276	+254	+271	+132	+ 78	+ 29	- 60	-277	-352	-436	-449	-562
July	-104	+ 75	+153	+ 44	+ 33	+ 16	- 55	-186	-298	-336	-410	-402	-526
August	+239	+101	+ 92	+139	+ 78	+ 75	- 14	-188	-274	-319	-349	-409	-299
September	+426	+493	+311	+391	+193	+ 79	-131	-503	-606	-1017	-650	-520	-387
October	+142	+ 90	+ 99	+177	+152	+138	+217	+203	+123	- 17	-189	-286	-330
November	+204	+125	+100	+ 45	+ 16	+117	+158	+121	+ 74	+ 17	- 31	-112	-133
December	+167	+173	+143	+ 80	+163	+188	+259	+143	+159	+ 49	- 7	-167	-205
Year	+172	+160	+161	+189	+146	+122	+ 89	- 6	- 99	-222	-278	-343	-358
Winter	+123	+ 96	+ 95	+107	+ 89	+145	+186	+130	+ 71	- 29	-100	-186	-213
Equinox	+257	+217	+219	+307	+257	+144	+ 56	- 54	-140	-330	-331	-430	-430
Summer	+137	+167	+168	+153	+ 93	+ 78	+ 23	- 96	-227	-308	-403	-413	-431
WEST COMPONENT (Unit 0.1γ)													
January	-212	- 64	-144	-241	-168	-110	- 31	- 86	-112	- 75	- 73	- 44	+ 95
February	-176	-259	-464	-362	-157	+ 41	+ 46	+ 22	- 13	- 24	+ 62	+167	+302
March	-274	-236	-144	-162	-203	+ 56	-147	-149	-257	-151	- 70	+158	+288
April	-394	-292	-353	-347	-317	-173	-128	- 92	-198	-187	- 56	+ 99	+330
May	- 78	-180	-203	-216	-174	-172	-227	-304	-381	-324	-122	+133	+338
June	- 50	-175	-203	-294	-236	-195	-248	-316	-288	-267	- 63	+143	+363
July	-237	-317	-321	- 21	- 40	-226	-327	-437	-325	-386	-248	- 13	+137
August	-146	-238	-188	-190	-187	-194	-319	-325	-298	-232	- 13	+148	+328
September	-141	-199	-280	-375	-335	-379	-142	-230	-469	-468	- 70	+164	+373
October	-208	-239	-120	-146	-122	+ 11	+ 36	- 85	-228	-242	-137	+ 19	+203
November	-310	-311	-266	-196	- 96	- 58	- 57	+ 12	+ 11	+ 3	+ 29	+127	+200
December	-181	-249	-292	-158	+ 22	+105	+ 42	+ 76	- 3	- 78	- 28	+ 94	+146
Year	-201	-230	-248	-226	-168	-108	-125	-160	-213	-203	- 66	+100	+259
Winter	-220	-221	-292	-239	-110	- 6	0	+ 6	- 29	- 44	- 2	+ 86	+186
Equinox	-254	-242	-224	-258	-244	-121	- 95	-139	-288	-262	- 83	+110	+298
Summer	-128	-228	-229	-180	-159	-197	-280	-346	-323	-302	-112	+103	+292
VERTICAL COMPONENT (Unit 0.1γ)													
January	+ 22	-140	-304	-138	-152	-194	-178	-146	-118	-136	-160	-152	-158
February	+ 5	- 81	- 67	-173	-265	-293	-245	-183	-153	-137	-129	-119	- 71
March	-192	-188	-162	-196	-244	-290	-538	-448	-320	-288	-284	-280	-174
April	+ 80	+ 2	- 78	-186	-248	-262	-218	-170	-154	-176	-226	-248	-222
May	+ 37	+ 21	- 21	- 57	- 89	- 65	- 59	- 63	- 93	-189	-313	-357	-325
June	- 3	- 73	-179	-259	-337	-349	-321	-257	-231	-229	-269	-321	-237
July	-210	-208	-202	-278	-332	-232	-176	-114	- 92	-112	-146	-214	-230
August	- 4	+ 6	- 18	- 74	- 88	- 84	- 66	- 74	- 96	-162	-256	-270	-210
September	-356	-450	-570	-872	-928	-684	-666	-680	-502	-438	-208	-146	- 54
October	+ 6	- 24	- 92	- 98	-100	-122	-156	-104	- 70	- 96	-150	-172	-160
November	- 68	- 64	-126	-184	-128	- 90	- 80	-120	-128	-136	-150	-164	-142
December	- 20	- 36	- 48	-114	-164	-174	-166	-164	-130	-142	-144	-170	-132
Year	- 59	-103	-156	-219	-256	-237	-239	-210	-174	-187	-203	-218	-176
Winter	- 15	- 80	-136	-152	-177	-188	-167	-154	-132	-138	-146	-151	-126
Equinox	-116	-165	-226	-338	-380	-340	-394	-350	-262	-250	-217	-212	-152
Summer	- 45	- 64	-105	-167	-212	-182	-156	-127	-128	-173	-246	-290	-250

COMPONENTS OF MAGNETIC INTENSITY

International Disturbed Days

NORTH COMPONENT (Unit 0.1Y)

Universal Time. Hour commencing											Range	Month and Season, 1957
13	14	15	16	17	18	19	20	21	22	23	Y	
-177	-135	- 89	- 65	- 6	+ 13	+ 43	+190	+136	+ 54	- 63	45.8	January
-196	- 98	- 42	- 83	+ 14	+ 44	+ 27	+ 74	+ 53	+ 16	+ 60	49.7	February
-394	-253	- 25	-139	+ 76	- 20	+ 25	+ 4	- 60	- 20	- 68	102.5	March
-366	-251	-134	+ 68	+171	+236	+196	+166	+181	+ 84	+170	73.1	April
-342	-329	-160	- 18	+150	+208	+256	+207	+125	+ 68	+ 48	67.1	May
-253	- 56	+ 51	+350	+269	+332	+410	+217	- 37	-196	-202	97.2	June
-349	- 23	+135	+222	+297	+454	+444	+339	+223	+154	+ 91	98.0	July
-337	-224	-103	+214	+336	+375	+222	+215	+185	+157	+ 94	78.4	August
+ 31	+315	+599	+654	+849	- 77	-117	- 90	-143	- 13	- 79	186.6	September
-285	-257	-102	- 77	- 17	+ 83	+ 54	+ 57	- 12	+ 13	+ 20	54.7	October
-121	- 86	- 71	+ 42	-140	-155	-122	- 53	- 8	- 44	+ 58	35.9	November
-163	-184	-171	- 74	- 58	- 79	-153	- 79	- 64	-100	- 16	46.4	December
-246	-132	- 9	+ 91	+162	+118	+107	+104	+ 48	+ 14	+ 9	77.9	Year
-164	-126	- 93	- 45	- 48	- 44	- 52	+ 33	+ 29	- 19	+ 10	44.5	Winter
-254	-111	+ 84	+126	+270	+ 56	+ 40	+ 34	- 8	+ 16	+ 11	104.2	Equinox
-320	-158	- 19	+192	+263	+342	+333	+245	+124	+ 46	+ 8	85.2	Summer

WEST COMPONENT (Unit 0.1Y)

											Y	
+289	+360	+356	+256	+215	+230	+ 90	+ 10	- 98	-176	-269	62.9	January
+413	+330	+271	+204	+ 95	+177	- 97	- 68	-163	-197	-144	87.7	February
+494	+637	+555	+198	+293	+ 62	+ 15	+ 61	-378	-278	-361	101.5	March
+456	+480	+466	+316	+250	+137	+123	+ 88	+ 52	- 67	-192	87.4	April
+439	+411	+400	+311	+204	+ 88	+ 34	+ 2	+ 17	- 7	+ 14	82.0	May
+408	+486	+466	+344	+352	+242	+ 24	+ 24	- 77	- 86	-355	84.1	June
+334	+513	+539	+477	+341	+327	+172	+131	+ 22	+ 8	-104	97.6	July
+403	+389	+328	+337	+271	+138	+ 18	+ 19	+ 62	- 9	- 96	72.8	August
+702	+797	+885	+537	+359	- 55	+ 53	+ 38	-119	-286	- 57	135.4	September
+392	+342	+313	+255	+172	+127	+127	+ 33	-134	-160	-202	63.4	October
+251	+346	+251	+334	+338	+221	+ 91	-106	-320	-256	-233	66.6	November
+283	+260	+234	+183	+243	+177	+ 69	-115	-187	-333	-305	61.6	December
+405	+446	+422	+313	+261	+156	+ 60	+ 10	-110	-154	-217	83.6	Year
+309	+324	+278	+244	+223	+201	+ 38	- 70	-192	-240	-238	69.7	Winter
+511	+564	+555	+326	+268	+ 68	+ 80	+ 55	-145	-198	-278	96.9	Equinox
+396	+450	+433	+367	+292	+199	+ 62	+ 44	+ 6	- 24	-135	84.1	Summer

VERTICAL COMPONENT (Unit 0.1Y)

											Y	
-132	- 60	+ 72	+154	+204	+300	+322	+412	+474	+178	+ 38	77.8	January
+ 35	+145	+205	+231	+245	+201	+283	+203	+177	+135	+ 61	57.6	February
- 36	+280	+554	+518	+456	+562	+434	+348	+344	+ 98	+ 46	110.0	March
-106	+ 34	+178	+300	+340	+388	+306	+236	+176	+150	+114	65.0	April
-219	- 75	+ 61	+207	+323	+345	+301	+245	+165	+127	+ 99	70.2	May
+ 3	+163	+353	+641	+577	+603	+521	+285	+131	- 93	-113	99.0	June
- 94	+ 94	+220	+330	+408	+440	+438	+342	+214	+ 92	+ 52	77.2	July
-148	- 48	+ 56	+164	+256	+328	+320	+226	+124	+ 78	+ 44	59.8	August
+176	+550	+1244	+1510	+1492	+808	+734	+316	+260	- 92	-452	243.8	September
- 96	+ 16	+150	+186	+178	+168	+154	+188	+212	+158	+ 34	38.4	October
- 78	+ 8	+ 96	+ 76	+182	+270	+272	+284	+224	+180	+ 70	46.8	November
- 76	+ 38	+114	+170	+146	+158	+278	+234	+220	+190	+144	45.2	December
- 63	+ 95	+275	+374	+401	+381	+364	+277	+227	+100	+ 11	82.6	Year
- 63	+ 33	+122	+158	+194	+232	+288	+284	+274	+171	+ 78	56.9	Winter
- 10	+220	+532	+628	+616	+482	+407	+272	+248	+ 78	- 64	114.3	Equinox
-114	+ 34	+172	+336	+391	+429	+395	+274	+158	+ 51	+ 20	76.6	Summer

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

Month 1957	All Days			Quiet Days			Disturbed Days		
	Declina- tion West	Hori- zontal Inten- sity	Verti- cal Inten- sity	Declina- tion West	Hori- zontal Inten- sity	Verti- cal Inten- sity	Declina- tion West	Hori- zontal Inten- sity	Verti- cal Inten- sity
	'	Y	Y	'	Y	Y	'	Y	Y
January	-0.08	-0.6	+0.5	+0.32	+ 3.6	-3.4	+0.52	- 4.6	+ 4.8
February	+0.06	+0.7	-0.3	+0.10	+ 4.6	-2.8	+1.14	- 3.8	+ 3.2
March	-0.19	-0.6	+0.2	+0.92	+17.0	-8.4	-1.26	-44.6	+13.2
April	+0.02	+1.0	-0.2	+0.54	+10.2	-1.4	+1.62	- 0.2	+ 0.2
May	+0.12	+0.7	-0.1	+0.64	+ 4.4	+1.4	+1.14	-16.8	+ 6.8
June	-0.47	-6.5	-2.8	-0.04	+ 6.8	-1.8	-3.72	-41.0	-14.0
July	+0.38	+6.2	+2.6	+0.14	+ 3.8	-2.6	+1.62	+23.2	+21.4
August	-0.14	-0.5	+0.2	+0.16	+ 5.8	-3.4	-0.58	-12.0	+ 1.4
September	+0.05	-0.4	+0.5	0.00	+ 7.2	-3.2	-3.62	-52.4	-13.0
October	+0.09	+0.8	-0.1	+1.08	+ 4.4	-5.0	+1.14	-10.2	+ 0.8
November	-0.06	0.0	+0.1	-0.80	+ 5.2	-1.4	-0.58	- 9.8	+ 4.6
December	-0.28	-3.2	+1.3	+0.06	+ 1.4	-0.6	-0.60	-17.8	+ 9.4
Year	..	..	..	+0.26	+ 6.2	-2.7	-0.26	-15.8	+ 3.2

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

Month 1957	Declination		Inclination	Horizontal Intensity		Vertical Intensity		Total Intensity
	West			North		West		
	o	'		c.g.s.	c.g.s.	c.g.s.	c.g.s.	
January	10	20.3	66 48.9	.18608	.18306	.03339	.43446	.47263
February	10	19.4	66 48.8	.18611	.18310	.03335	.43449	.47267
March	10	18.9	66 49.2	.18607	.18306	.03332	.43455	.47271
April	10	18.1	66 48.1	.18622	.18322	.03330	.43450	.47272
May	10	18.0	66 46.5	.18640	.18340	.03333	.43439	.47269
June	10	17.5	66 46.6	.18641	.18341	.03331	.43443	.47274
July	10	16.9	66 46.9	.18638	.18339	.03327	.43448	.47277
August	10	16.7	66 46.4	.18643	.18343	.03326	.43441	.47272
September	10	15.8	66 49.5	.18608	.18310	.03316	.43466	.47282
October	10	15.6	66 47.5	.18634	.18336	.03319	.43458	.47284
November	10	15.1	66 47.5	.18634	.18336	.03316	.43458	.47285
December	10	14.5	66 47.3	.18638	.18341	.03314	.43459	.47288
Year	10	17.2	66 47.8	.18627	.18328	.03327	.43451	.47275

TABLE X(A). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS
DETERMINED AT THE ROYAL OBSERVATORY, GREENWICH,
BETWEEN THE YEARS 1818- 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
1861		0.1759		68 15.8	1906	16 3.6	0.1854	0.4353	66 55.6
1862	20 52.6	0.1763	0.4403	68 9.6	1907	15 59.8	0.1855	0.4357	66 56.2
1863	20 45.9	0.1764	0.4396	68 7.0	1908	15 53.5	0.1854	0.4356	66 56.3
1864	..	0.1767	0.4393	68 4.1	1909	15 47.6	0.1854	0.4348	66 54.1
1865	20 33.9	0.1767	0.4388	68 2.7	1910	15 41.2	0.1855	0.4345	66 52.8
1866	20 28.0	0.1773	0.4397	68 1.3	1911	15 33.0	0.1855	0.4342	66 52.1
1867	20 20.5	0.1777	0.4392	67 57.2	1912	15 24.3	0.1855	0.4340	66 51.8
1868	20 13.1	0.1779	0.4395	67 56.5	1913	15 15.2	0.1853	0.4333	66 50.7
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 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.	°	'
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	0.43940	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

2. + 3

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

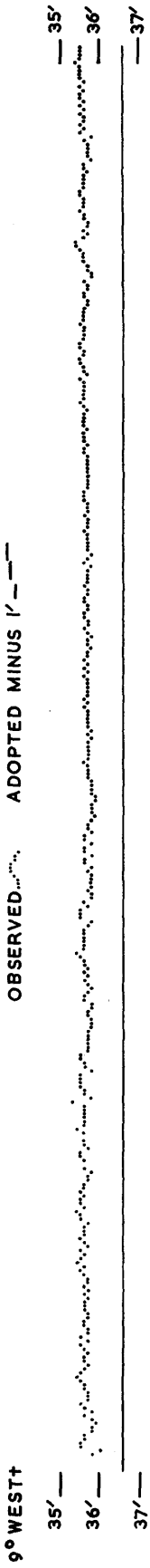
Year	Declination West		Horizontal Intensity	Vertical Intensity	Dip	
	°	'	c.g.s.	c.g.s.	°	'
1957	10	17.2	0.18627	0.43451	66	47.8

* 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. ←

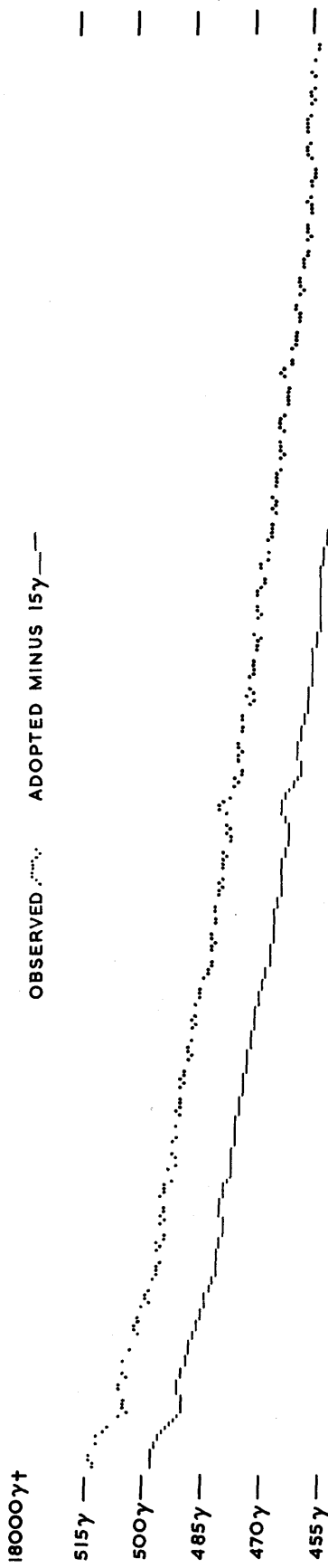
Re-measurement
5 coils.

HARTLAND 1957

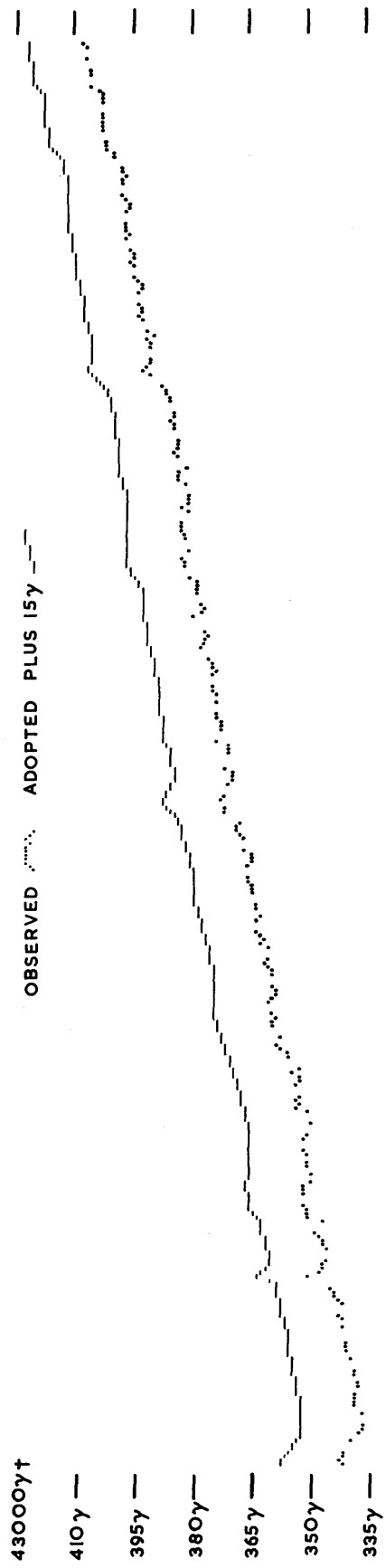
Declination base-line values



Horizontal Intensity base-line values



Vertical Intensity base-line values



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

TABLE Ia. - 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																	
8° + Tabular Quantities																	
1	33.3	33.4	33.2	32.6	32.5	32.5	32.5	32.5	32.8	32.1	32.7	35.3	35.6	36.5	38.4	38.0	
2	32.0	31.9	32.0	33.0	33.1	32.4	32.3	33.3	32.8	32.3	34.1	33.8	37.6	38.8	38.4	38.4	
3	30.9	30.4	30.1	29.4	31.0	31.6	31.9	31.8	31.3	30.2	31.4	33.1	35.3	37.2	37.3	36.4	
4	32.4	31.8	32.8	32.4	32.3	32.3	32.1	32.1	32.7	33.0	34.0	35.5	37.1	37.3	36.3	36.0	
5 *	33.1	33.1	33.3	32.8	32.7	33.1	33.3	32.5	32.7	32.2	32.9	35.4	37.4	38.3	38.1	36.7	
6	32.7	32.3	32.8	32.3	32.2	33.2	33.3	33.1	31.8	31.2	32.5	35.3	37.4	39.6	40.1	38.1	
7	32.5	32.2	32.3	31.5	31.2	32.3	32.4	32.5	32.5	31.3	33.1	35.0	37.9	37.3	37.6	37.0	
8	32.4	28.7	29.1	30.0	32.3	32.6	33.2	33.4	33.2	32.4	35.2	35.4	38.6	38.1	38.4	37.8	
9	31.3	31.8	32.3	31.4	31.5	31.4	31.9	31.9	31.4	31.6	32.4	34.9	36.8	39.3	38.4	36.2	
10 **	27.7	28.5	29.3	28.5	29.3	29.4	36.7	36.2	34.2	31.9	32.4	36.4	38.0	41.6	41.3	41.3	
11	24.3	30.4	32.2	32.2	32.4	32.6	32.4	32.4	33.5	33.7	34.0	34.4	37.6	38.6	38.4	36.6	
12	32.5	32.7	32.7	29.5	34.3	32.6	32.2	32.4	31.6	31.4	33.0	34.7	36.7	37.4	37.0	37.3	
13 *	33.0	33.4	33.5	33.6	32.4	32.1	32.4	32.8	33.0	32.1	32.2	33.9	35.6	38.1	38.5	38.0	
14 *	34.2	33.7	34.0	33.7	33.3	33.4	33.2	32.8	32.2	31.4	32.5	34.3	35.6	37.4	37.4	36.6	
15	34.3	34.1	34.1	33.3	33.3	33.3	33.7	33.3	32.8	32.0	32.5	34.8	37.3	38.3	39.1	38.7	
16	30.4	33.1	33.4	34.1	34.1	34.2	33.5	33.3	32.5	30.3	32.4	35.4	38.3	40.5	40.2	39.3	
17	32.8	33.3	32.7	33.3	33.5	33.6	33.1	32.8	32.3	31.6	32.3	34.2	36.7	38.6	37.5	37.2	
18 *	33.9	34.1	34.3	34.3	34.1	33.9	33.7	33.1	31.9	30.7	32.3	34.3	37.9	40.1	38.7	37.3	
19	33.6	33.4	33.8	34.1	34.1	34.1	34.1	33.3	33.1	31.5	31.3	33.6	37.3	39.3	40.1	38.7	
20 *	31.5	31.2	31.5	33.2	32.8	33.2	33.3	33.3	33.0	32.1	32.5	34.5	38.1	39.1	39.3	38.7	
21 **	33.3	32.6	32.3	34.0	34.1	34.1	33.5	32.3	34.3	34.3	35.1	36.1	38.9	44.1	46.5	46.1	
22 **	29.5	34.4	29.2	21.9	25.6	29.4	28.2	28.1	26.6	27.6	29.3	30.9	33.2	34.5	35.4	35.3	
23 **	30.4	31.2	31.3	30.7	31.1	31.3	31.3	30.3	28.3	31.3	31.8	32.4	34.7	37.3	39.2	37.3	
24	31.3	29.9	24.3	26.4	27.5	31.3	31.2	30.1	29.2	29.3	31.3	34.2	36.4	39.6	40.1	39.6	
25	20.3	25.2	23.8	26.3	27.0	29.5	28.3	31.1	29.3	29.8	30.9	32.3	34.3	36.3	36.3	35.1	
26	32.1	33.1	31.2	30.2	30.4	30.5	31.3	32.2	30.3	29.6	29.3	30.5	34.3	37.6	38.1	36.5	
27	32.3	33.3	33.2	33.2	32.5	31.7	31.3	31.0	29.1	29.3	32.0	35.1	37.5	36.6	38.3	38.2	
28	33.1	33.1	32.3	31.3	32.1	31.3	31.3	31.4	30.6	29.6	30.6	32.4	34.5	37.5	38.2	37.1	
29	33.0	33.3	33.3	32.3	31.5	32.2	31.6	31.3	30.3	30.4	32.1	33.4	37.0	43.0	49.3	45.1	
30 **	27.5	33.3	30.1	28.5	31.6	32.3	35.3	31.6	32.7	36.3	35.1	33.6	40.8	41.9	39.7	38.7	
31	30.2	29.3	29.4	28.8	28.5	29.9	30.9	30.8	30.6	31.4	31.9	32.3	35.1	37.5	38.3	37.1	
Mean	31.3	32.0	31.6	31.3	31.8	32.2	32.4	32.2	31.7	31.4	32.4	34.2	36.8	38.6	39.0	38.1	
Mean *	33.1	33.1	33.3	33.5	33.1	33.1	33.2	32.9	32.6	31.7	32.5	34.5	36.9	38.6	38.4	37.5	
Mean **	29.7	32.0	30.4	28.7	30.3	31.3	33.0	31.7	31.2	32.3	32.7	33.9	37.1	39.9	40.4	39.7	
FEBRUARY																	
8° + Tabular Quantities																	
1	30.6	31.2	30.8	32.1	32.4	33.2	32.4	31.2	30.5	31.0	32.1	31.7	33.3	35.9	36.8	36.3	
2	31.8	31.6	32.0	31.1	31.1	31.9	32.0	31.4	31.4	31.7	32.2	33.6	38.1	37.4	39.5	36.9	
3	30.0	29.0	30.4	31.2	31.1	31.9	31.6	31.5	31.5	31.2	31.3	33.0	35.9	37.9	36.5	36.5	
4 **	30.1	26.3	27.7	29.3	29.7	31.1	31.4	31.2	32.0	31.4	33.5	37.4	39.0	40.2	38.1	37.9	
5 **	29.2	21.3	17.1	25.4	33.4	33.1	33.9	31.0	30.0	33.2	37.4	37.2	40.2	41.4	37.4	34.8	
6	31.0	30.1	28.9	29.2	29.6	29.4	29.2	29.5	31.1	33.2	34.0	35.2	36.7	37.3	37.2	37.3	
7 *	32.2	31.7	32.1	32.2	31.6	31.5	30.8	30.2	30.8	31.0	33.1	34.9	34.2	36.0	36.0	35.4	
8	28.9	28.0	28.8	29.0	29.2	30.1	29.8	31.1	31.2	32.2	34.1	34.2	35.1	37.0	37.2	36.6	
9	30.1	30.2	30.0	29.7	30.2	31.4	32.0	32.2	32.0	31.3	31.7	33.5	36.4	37.3	36.2	35.1	
10 *	28.1	28.1	29.2	30.2	31.2	31.7	32.2	32.2	32.2	32.4	32.2	34.2	35.3	36.5	36.1	35.2	
11	33.3	32.4	33.2	32.6	32.2	33.0	32.2	32.4	32.4	31.7	32.3	35.0	36.2	37.4	36.3	36.2	
12	32.6	32.6	32.1	35.0	34.4	31.2	32.0	32.2	32.2	33.4	33.2	34.2	35.0	35.8	36.2	34.2	
13 **	30.4	32.0	32.0	32.2	30.8	35.0	34.6	35.2	34.2	33.2	34.2	37.2	40.2	42.4	40.2	36.4	
14	31.4	31.4	32.2	32.4	31.9	32.2	32.0	31.2	31.2	32.0	32.4	34.9	35.1	35.6	35.5	35.2	
15	33.2	33.2	33.3	33.4	33.1	32.5	31.4	31.9	31.3	32.6	32.8	37.4	36.8	36.9	36.2	36.2	
16	32.7	32.3	32.3	33.2	32.5	33.2	33.2	33.4	32.4	32.4	33.3	34.2	35.2	35.9	36.2	36.0	
17	31.4	31.3	31.0	32.3	32.3	32.3	31.9	32.3	32.0	31.9	32.4	34.1	35.9	38.4	38.0	37.2	
18	26.2	25.2	24.7	25.8	27.0	28.0	29.2	31.4	33.2	34.2	33.2	36.4	36.9	38.4	37.2	37.9	
19	27.9	30.2	30.7	30.2	31.2	30.2	31.9	35.4	34.9	34.4	33.6	34.9	37.2	35.9	36.2	34.9	
20	30.0	28.1	24.5	25.8	28.2	28.2	30.1	30.3	30.7	32.4	34.7	37.3	38.3	37.6	37.3	35.1	
21 **	30.1	28.1	22.3	23.5	27.0	29.0	29.2	34.0	34.2	33.2	33.2	35.2	38.2	40.8	41.2	39.8	
22	29.2	32.3	29.7	32.2	30.2	31.0	32.7	31.2	31.4	31.5	32.3	35.2	35.0	37.0	38.3	36.2	
23	26.0	25.4	29.4	31.5	34.3	33.1	31.9	32.5	33.6	33.5	34.2	36.3	36.9	37.9	37.2	37.1	
24 **	23.3	23.6	17.1	18.3	27.4	38.1	38.2	31.8	32.6	32.8	33.3	35.2	35.2	35.9	33.2	34.4	
25	30.5	29.3	27.2	27.2	29.5	30.5	31.1	30.5	30.2	31.3	32.5	34.9	35.0	35.3	35.1	34.2	
26 *	32.2	31.5	31.4	31.2	31.4	31.5	31.9	32.3	31.5	31.7	32.2	33.9	35.1	35.3	35.2	35.1	
27 *	31.4	30.7	29.4	27.6	29.3	30.4	31.3	31.8	31.2	30.4	31.2	33.1	34.8	36.1	35.4	34.3	
28 *	32.3	32.0	32.2	32.1	32.0	31.2	31.0	31.0	30.8	30.4	33.1	35.4	37.2	38.1	37.3	35.9	
Mean	30.2	29.6	29.0	29.9	30.9	31.6	31.8	31.9	31.9	32.2	33.1	35.0	36.4	37.4	36.9	36.0	
Mean *	31.2	30.8	30.9	30.7	31.1	31.3	31.4	31.5	31.3	31.2	32.4	34.3	35.3	36.4	36.0	35.2	
Mean **	28.6	26.3	23.2	25.7	29.7	33.3	33.5	32.6	32.5	32.8	34.3	36.4	38.6	40.1	38.0	36.7	

* 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		
8° + Tabular Quantities														JANUARY	
										h m		h m			
36.5	36.3	35.6	34.3	33.4	33.3	33.1	33.1	34.1	34.1	15 15	39.5	31.2	9 44	8.3	1
36.8	37.3	38.6	39.9	29.9	26.9	31.2	27.5	34.0	34.0	19 2	43.2	22.9	20 53	20.3	2
35.8	35.3	34.4	34.3	33.7	33.3	32.9	32.8	33.0	33.0	14 30	38.0	28.3	0 0	9.7	3
35.3	34.7	35.3	34.9	33.8	33.6	33.5	32.8	33.9	33.9	13 22	38.5	31.3	1 20	7.2	4
35.3	35.1	35.2	34.2	33.3	33.5	33.1	32.3	34.2	34.2	14 31	38.9	31.4	9 46	7.5	5 *
37.2	36.4	36.1	35.5	34.9	33.9	33.3	33.1	34.5	34.5	14 17	41.6	30.5	9 25	11.1	6
36.3	36.1	35.8	35.1	34.2	33.4	33.3	33.5	34.0	34.0	12 51	39.8	30.6	9 50	9.2	7
37.7	39.4	39.5	37.2	33.0	30.4	29.4	30.6	34.1	34.1	12 4	42.3	27.8	1 30	14.5	8
38.3	38.4	37.3	31.4	32.0	30.2	26.1	25.3	33.1	33.1	14 33	41.5	23.4	23 10	18.1	9
35.5	31.9	36.4	33.2	28.2	23.6	27.5	29.2	32.8	32.8	13 7	43.4	18.6	21 0	24.8	10 **
36.1	34.6	34.5	33.6	33.1	33.2	31.5	32.4	33.5	33.5	13 7	41.0	22.3	0 26	18.7	11
36.3	35.3	34.7	34.1	34.2	33.4	32.6	32.6	33.8	33.8	13 38	38.7	28.0	3 44	10.7	12
36.3	35.3	35.2	34.6	34.3	34.2	34.1	33.6	34.3	34.3	14 22	39.6	30.7	10 10	8.9	13 *
35.5	35.2	34.6	34.2	34.2	34.3	34.3	34.0	34.3	34.3	14 48	38.1	30.4	9 38	7.7	14 *
37.0	35.3	34.8	34.3	34.1	33.6	33.5	30.5	34.5	34.5	13 59	40.5	27.9	23 43	12.6	15
37.3	35.5	35.1	34.3	32.9	33.2	33.3	33.3	34.6	34.6	13 22	41.8	29.3	9 47	12.5	16
36.1	35.5	35.3	33.7	33.0	33.4	33.8	34.2	34.2	34.2	13 40	39.7	30.6	9 43	9.1	17
36.3	35.3	35.2	34.4	33.8	33.5	33.5	33.9	34.6	34.6	13 27	40.6	30.2	9 46	10.4	18 *
38.1	39.2	40.1	36.5	34.5	33.0	32.3	32.6	35.1	35.1	18 9	42.1	30.6	10 27	11.5	19
37.5	37.3	36.4	36.0	34.5	33.6	33.3	33.3	34.6	34.6	15 6	39.8	30.5	1 11	9.3	20 *
44.3	45.4	44.0	39.9	37.6	40.4	29.1	22.4	36.9	36.9	22 30	66.0	-13.0 †	22 13	79.0	21 **
34.4	35.1	34.6	34.1	33.1	32.4	31.6	31.2	31.1	31.1	1 57	76.5 †	14.9	2 17	61.6	22 **
37.3	36.7	34.5	33.2	31.2	27.6	26.3	30.3	32.4	32.4	14 23	40.6	24.2	22 0	16.4	23 **
37.5	37.6	37.3	27.3	32.5	34.6	31.5	22.7	32.2	32.2	13 40	41.7	20.4	23 21	21.3	24
34.3	34.3	33.5	33.1	33.1	24.1	30.5	31.5	30.4	30.4	14 7	37.7	16.4	0 13	21.3	25
33.4	35.0	35.2	34.8	34.1	32.4	29.5	30.3	32.6	32.6	14 15	39.6	26.9	22 50	12.7	26
36.4	36.3	35.8	34.5	33.3	32.2	31.3	32.2	33.6	33.6	12 19	39.6	27.7	9 0	11.9	27
36.8	37.0	35.1	35.7	34.3	33.3	31.3	33.0	33.5	33.5	14 7	39.5	28.8	9 43	10.7	28
45.5	44.5	38.1	36.3	31.5	31.3	30.5	34.5	35.5	35.5	14 39	53.4	22.0	23 23	31.4	29
36.8	37.1	36.1	32.8	33.3	33.3	32.7	30.6	34.2	34.2	13 20	44.3	25.3	0 30	19.0	30 **
36.1	36.3	37.5	33.7	33.2	32.9	31.1	31.2	32.7	32.7	14 10	39.6	27.6	4 36	12.0	31
36.9	36.6	36.2	34.6	33.3	32.3	31.6	31.3	33.8	33.8	-	42.8	25.4	-	17.4	Mean
36.2	35.6	35.3	34.7	34.0	33.8	33.7	33.4	34.4	34.4	-	39.4	30.6	-	8.8	Mean *
37.7	37.2	37.1	34.6	32.7	31.5	29.4	28.7	33.5	33.5	-	54.2	14.0	-	40.2	Mean **

8° + Tabular Quantities														FEBRUARY	
										h m		h m			
35.1	35.6	36.2	34.2	33.5	33.6	33.2	32.4	33.1	33.1	15 14	38.0	29.5	7 53	8.5	1
37.1	37.3	37.2	36.4	34.4	33.1	32.2	30.8	33.8	33.8	14 38	41.3	29.1	23 56	12.2	2
36.8	38.0	38.2	37.2	32.0	29.6	30.8	30.0	33.0	33.0	18 18	39.1	26.3	21 23	12.8	3
38.5	34.2	35.2	30.7	29.2	25.7	24.4	29.4	32.2	32.2	16 19	43.4	22.9	22 51	20.5	4 **
36.0	34.4	35.7	34.3	31.7	26.4	27.9	29.4	32.2	32.2	13 6	46.1	15.0	2 16	31.1	5 **
37.4	36.3	35.0	33.7	33.3	32.3	32.5	32.4	33.0	33.0	13 27	39.0	27.9	2 3	11.1	6
35.4	35.4	35.2	35.2	34.0	33.3	31.4	30.4	33.1	33.1	11 31	37.2	29.5	23 53	7.7	7 *
36.1	36.2	36.2	36.0	33.6	33.2	33.2	32.0	32.9	32.9	14 4	38.2	27.5	1 22	10.7	8
35.7	37.3	38.9	36.4	35.1	33.4	32.8	31.3	33.3	33.3	18 33	39.6	28.5	3 13	11.1	9
35.2	35.2	35.2	34.9	34.2	33.4	33.2	33.4	33.0	33.0	13 19	37.1	27.1	1 3	10.0	10 *
32.5	35.3	35.1	34.2	32.8	32.4	32.2	32.5	33.6	33.6	13 51	40.1	28.0	16 39	12.1	11
34.5	35.0	34.9	33.4	34.5	33.9	32.4	32.1	33.6	33.6	14 23	37.1	30.1	5 40	7.0	12
33.8	34.2	34.8	16.8	28.2	32.8	32.5	32.2	33.6	33.6	13 37	43.9	7.0 †	19 19	36.9	13 **
34.3	33.9	33.2	32.2	31.2	32.5	32.4	33.0	32.9	32.9	14 3	36.8	29.5	7 54	7.3	14
35.0	34.9	33.3	33.0	32.9	29.9	29.2	32.4	33.5	33.5	11 27	39.4	25.3	21 56	14.1	15
34.4	33.7	35.0	33.9	32.8	32.9	32.2	31.1	33.5	33.5	14 4	37.7	30.1	23 45	7.6	16
38.2	39.2	38.2	38.2	37.2	34.0	31.2	29.2	34.2	34.2	13 29	40.3	27.4	22 56	12.9	17
35.2	33.2	29.2	28.2	35.2	30.0	27.2	25.5	31.2	31.2	13 28	40.1	23.1	19 2	17.0	18
34.9	33.8	34.3	30.3	30.5	32.0	23.3	26.8	32.3	32.3	12 51	40.9	18.0	22 33	22.9	19
35.2	35.2	34.7	33.8	34.1	30.7	30.3	31.2	32.2	32.2	12 9	40.1	22.2	2 49	17.9	20
39.0	34.3	36.0	32.8	29.5	27.4	25.2	25.3	32.0	32.0	13 7	47.2 †	20.4	2 30	26.8	21 **
31.1	33.3	34.0	28.6	29.5	32.4	31.4	28.7	32.3	32.3	14 11	40.4	24.3	19 50	16.1	22
35.3	33.5	20.4	33.5	36.1	35.3	29.0	20.9	32.3	32.3	19 57	41.8	10.5	18 25	31.3	23
32.2	32.2	34.2	34.2	33.2	33.2	33.0	32.2	31.4	31.4	6 9	44.0	10.8	2 10	33.2	24 **
33.2	33.5	34.1	33.2	33.3	33.1	33.0	32.5	32.1	32.1	11 39	36.9	26.0	2 33	10.9	25
34.5	34.2	34.2	33.9	33.2	32.5	32.2	31.6	32.9	32.9	15 3	36.3	30.3	2 48	6.0	26 *
33.7	33.9	33.8	33.2	32.5	33.2	33.2	32.9	32.3	32.3	13 12	36.6	26.7	3 20	9.9	27 *
34.6	35.5	35.2	34.3	33.9	33.1	32.2	33.0	33.5	33.5	13 55	39.1	29.4	9 12	9.7	28 *
35.2	35.0	34.6	33.1	32.9	32.0	30.8	30.5	32.8	32.8	-	39.9	24.4	-	15.5	Mean
34.7	34.8	34.7	34.3	33.6	33.1	32.4	32.3	33.0	33.0	-	37.3	28.6	-	8.7	Mean *
35.9	33.9	35.2	29.8	30.4	29.1	28.6	29.7	32.3	32.3	-	44.9	15.2	-	29.7	Mean **

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

TABLE Ia. - 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																	
8° + Tabular Quantities																	
1	32.5	32.4	31.4	30.9	30.2	30.9	31.6	32.0	31.5	31.9	33.1	35.7	38.1	40.8	39.5	39.4	
2 **	24.2	26.2	22.2	17.2	19.8	45.0	32.8	34.9	26.1	29.5	31.7	35.5	36.9	41.2	42.0	37.3	
3	29.4	26.2	29.0	29.9	31.2	29.2	28.2	30.6	30.4	29.8	31.3	35.9	35.2	38.3	39.2	37.1	
4	30.3	30.7	28.3	27.1	27.9	28.2	30.5	31.2	30.2	31.9	33.4	36.3	38.7	39.2	37.4	36.1	
5	28.0	31.4	29.3	29.0	29.4	31.2	30.1	30.6	28.4	29.6	32.4	35.2	36.2	40.2	38.4	37.5	
6	24.8	28.2	30.5	30.4	29.4	30.2	31.3	31.0	29.8	31.1	32.1	32.3	37.2	39.6	40.6	38.4	
7 *	31.6	32.0	31.2	31.2	31.1	30.9	30.8	29.9	29.3	30.3	32.4	35.0	38.2	41.2	40.1	38.6	
8	25.3	31.0	31.1	31.2	31.1	30.4	31.2	30.6	31.5	30.3	31.3	36.0	38.1	40.0	37.9	36.9	
9	26.9	26.5	25.9	23.3	25.0	30.2	30.2	30.4	28.4	29.1	30.3	34.0	37.5	40.2	40.5	38.7	
10 **	32.5	31.0	29.2	29.2	32.0	30.3	26.0	27.2	27.7	29.0	34.3	38.2	39.2	39.6	46.4	40.1	
11 *	23.4	25.9	27.0	27.4	28.4	29.2	29.2	29.0	30.2	31.2	32.9	35.2	36.8	36.2	36.6	34.8	
12 *	31.2	31.7	31.8	32.1	30.4	31.0	32.2	31.0	32.4	32.2	33.1	34.5	35.3	36.3	35.0	34.2	
13 *	31.5	31.2	31.3	31.1	31.1	30.5	30.2	28.0	26.3	28.1	32.3	35.9	38.4	40.1	39.2	37.5	
14 *	32.2	32.4	32.2	31.9	31.2	31.2	30.7	28.2	25.6	26.5	29.8	32.9	36.2	38.2	38.9	37.5	
15	32.1	32.2	33.2	32.4	31.9	31.0	30.2	28.7	25.7	25.2	28.9	33.5	37.4	40.0	40.2	38.2	
16	24.3	24.9	27.3	29.3	30.9	31.4	31.0	28.2	26.6	28.2	32.2	37.2	41.1	40.7	40.0	37.6	
17	31.1	30.3	28.9	29.1	30.1	29.8	31.1	26.5	25.2	26.5	31.4	36.4	41.2	42.9	41.0	38.0	
18	31.2	31.2	30.2	32.4	33.2	31.4	30.4	28.9	26.9	28.4	31.9	38.7	42.5	42.3	40.2	38.2	
19	28.6	28.5	29.4	30.2	30.0	29.5	30.2	27.2	26.2	30.4	35.2	38.7	40.8	42.0	41.7	39.7	
20	28.2	26.1	27.4	29.2	28.6	30.2	28.4	30.0	27.2	26.1	28.4	32.7	36.2	38.8	38.2	38.1	
21	29.2	29.2	28.9	29.2	28.4	29.5	29.4	27.4	26.0	26.6	29.3	34.2	38.4	42.2	40.2	41.8	
22	26.3	29.1	29.4	29.4	29.5	28.8	29.8	29.4	29.4	30.8	34.0	37.2	39.9	43.0	41.0	38.2	
23	33.3	28.7	26.4	27.2	30.4	30.2	29.6	29.2	28.1	28.7	33.4	36.4	40.2	39.4	38.2	37.5	
24	30.8	31.0	31.1	30.3	30.2	30.5	29.3	26.8	26.5	27.4	30.1	33.4	35.9	37.9	38.2	37.0	
25	31.2	31.8	27.2	25.2	22.7	23.9	28.0	27.3	24.2	29.4	32.6	36.0	39.4	39.0	40.2	37.7	
26	30.2	30.8	31.1	30.4	30.6	30.6	29.9	27.1	25.0	25.1	27.1	33.4	37.2	41.8	41.9	39.0	
27 **	27.6	29.7	30.5	31.0	29.2	28.8	27.2	27.0	27.4	28.4	31.4	39.0	43.6	43.8	46.7	43.4	
28 **	9.9	14.7	28.2	30.2	26.0	33.4	34.2	30.2	27.2	32.0	30.0	33.2	34.3	36.1	36.5	36.2	
29 **	31.2	30.0	30.4	31.2	29.2	25.4	26.3	24.2	26.3	26.5	30.3	35.4	40.0	48.5	47.8	47.2	
30	26.3	19.2	21.7	27.2	29.3	29.1	28.6	27.3	28.2	29.4	32.7	36.4	39.2	40.6	40.1	37.9	
31	30.4	28.1	30.2	28.4	29.4	29.6	27.7	26.4	26.1	27.8	30.3	36.4	39.0	42.2	39.5	39.2	
Mean	28.6	28.8	29.1	29.2	29.3	30.4	29.9	28.9	27.7	28.9	31.6	35.4	38.3	40.4	40.1	38.4	
Mean *	30.0	30.6	30.7	30.7	30.4	30.6	30.6	29.2	28.8	29.7	32.1	34.7	37.0	38.4	38.0	36.5	
Mean **	25.1	26.3	28.1	27.8	27.2	32.6	29.3	28.7	26.9	29.1	31.5	36.3	38.8	41.8	43.9	40.8	
APRIL																	
8° + Tabular Quantities																	
1	25.1	28.1	30.1	30.2	27.8	29.1	28.4	26.1	27.2	26.2	29.3	34.2	39.0	41.2	39.8	39.4	
2	25.2	28.3	29.1	29.6	28.7	28.4	28.1	26.1	27.1	27.3	30.2	33.1	38.0	40.0	40.1	39.1	
3	30.5	30.3	29.9	30.7	29.6	31.0	30.9	29.2	26.9	26.3	31.1	35.3	38.4	38.9	38.7	37.7	
4	24.7	25.4	26.7	23.4	25.3	29.1	27.1	24.8	24.7	26.1	30.3	34.3	38.8	39.1	41.6	40.1	
5 **	24.1	23.3	23.0	25.6	26.9	28.0	26.7	25.8	24.3	24.7	31.4	36.7	41.7	41.3	43.5	41.3	
6	22.6	19.7	28.9	27.3	28.3	32.3	34.2	31.2	28.4	28.3	35.1	36.3	38.3	40.8	40.3	37.4	
7 *	30.4	30.0	29.9	29.9	30.1	30.3	28.3	25.7	24.9	25.3	27.2	32.3	37.1	38.5	38.7	37.3	
8	30.0	29.2	30.0	30.1	30.3	31.1	33.0	30.5	29.1	30.0	33.3	39.2	42.1	43.9	42.9	40.6	
9	28.9	29.1	27.9	28.7	28.3	31.3	33.1	29.6	30.0	30.3	33.3	36.1	40.0	41.1	40.2	38.0	
10 **	23.1	24.3	24.0	20.3	25.8	30.1	28.0	27.3	32.9	30.7	31.4	33.9	38.2	39.6	38.0	36.7	
11	31.4	29.4	29.3	29.0	28.2	27.9	26.2	25.5	24.8	26.9	31.9	36.0	40.4	42.1	39.6	37.5	
12	31.1	30.8	30.0	29.8	29.0	29.1	28.4	27.2	25.3	27.5	30.3	34.6	37.0	39.3	38.1	37.9	
13 *	33.8	33.0	32.7	29.8	28.9	30.0	30.1	27.7	27.0	28.1	29.8	33.6	38.6	40.0	38.0	36.3	
14 *	31.8	31.0	30.8	30.0	29.0	28.5	27.6	25.8	24.3	26.3	30.0	33.8	37.3	39.0	39.0	37.2	
15	32.0	31.2	30.8	30.2	31.1	31.0	30.2	28.1	25.2	27.0	30.3	36.8	41.7	42.2	44.4	39.6	
16	24.2	25.7	24.8	26.3	28.7	27.6	27.8	26.4	25.7	26.6	30.2	35.0	40.0	43.5	42.4	41.0	
17 **	27.1	28.6	29.0	29.2	28.6	29.2	30.0	27.5	26.0	28.7	32.2	36.2	41.8	45.0	44.2	41.8	

* 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	
8° + Tabular Quantities														
MARCH														
										h m		h m		
43.0	45.1	39.2	36.4	36.1	34.6	31.5	26.5	34.8	17 15	46.6	23.3	23 40	23.3	1
33.8	35.2	31.8	29.1	30.3	14.8	23.2	26.2	30.3	5 34	71.2†	4.1	21 30	67.1	2 **
34.0	28.2	31.1	30.0	32.0	28.5	30.8	32.2	31.5	14 16	40.4	22.3	1 54	18.1	3
34.3	33.2	33.2	33.2	33.2	27.8	26.6	27.2	31.9	13 11	40.3	24.4	23 13	15.9	4
36.2	33.5	33.0	33.3	32.4	30.2	27.5	29.1	32.2	13 18	41.8	26.1	22 32	15.7	5
33.0	32.7	34.1	33.5	33.2	32.6	32.4	32.2	32.5	14 13	41.8	22.1	0 21	19.7	6
34.2	33.2	34.2	34.2	32.4	30.3	30.1	27.5	32.9	13 39	42.0	27.0	23 12	15.0	7 *
36.0	35.2	34.0	32.3	28.8	30.1	31.0	29.5	32.5	13 13	41.9	23.1	0 16	18.8	8
37.6	34.1	34.4	33.1	32.0	30.9	30.1	30.7	31.7	14 58	41.7	22.0	3 38	19.7	9
34.2	39.2	33.2	38.2	34.2	21.9	28.2	19.7	32.5	14 35	53.1	8.0	23 37	45.1	10 **
32.6	32.6	33.2	33.2	32.7	32.8	32.7	31.9	31.5	14 12	37.8	21.1	0 26	16.7	11 *
32.2	32.8	33.2	33.0	32.8	32.2	32.4	32.2	32.7	13 39	37.8	29.7	4 39	8.1	12 *
35.2	34.9	33.8	31.7	31.3	31.2	30.2	31.7	32.6	13 24	41.1	25.3	8 41	15.8	13 *
35.9	34.1	33.3	33.2	33.2	33.2	33.0	32.3	32.7	14 24	39.6	24.4	8 44	15.2	14 *
34.5	33.8	33.2	31.0	32.2	34.2	32.2	28.2	32.5	13 50	41.2	24.1	9 7	17.1	15
37.2	34.8	36.2	27.2	26.5	22.2	28.4	32.0	31.5	12 41	44.1	17.4	21 24	26.7	16
35.1	29.5	32.5	32.8	33.2	32.2	30.2	31.0	32.3	13 6	44.3	24.9	8 22	19.4	17
35.4	34.2	33.4	33.4	33.4	32.1	30.2	30.1	33.3	12 53	45.1	25.8	8 46	19.3	18
38.0	35.5	34.9	32.8	30.2	30.5	30.4	31.4	33.0	14 27	43.4	24.6	8 18	18.8	19
36.3	34.8	34.2	33.4	33.5	31.4	32.0	29.5	31.6	13 5	39.4	25.0	9 11	14.4	20
44.7	45.0	39.7	34.3	33.0	32.3	28.2	28.5	33.2	16 55	48.3	25.0	23 27	23.3	21
37.2	32.0	31.0	28.1	31.2	32.2	30.3	31.9	32.5	13 18	44.2	24.6	0 13	19.6	22
34.8	31.7	32.0	33.0	32.4	29.2	30.0	30.4	32.1	12 33	41.4	24.3	2 8	17.1	23
35.2	34.5	33.3	32.2	30.2	29.2	32.3	32.2	31.9	14 34	39.1	23.6	21 1	15.5	24
34.3	33.2	33.3	32.6	32.4	32.4	32.3	31.4	31.6	12 33	42.3	19.4	4 21	22.9	25
38.2	36.0	34.5	32.2	31.1	28.3	24.2	26.4	31.8	14 19	45.1	20.3	22 10	24.8	26
37.8	36.4	31.0	26.8	27.9	18.0	22.1	18.9	31.4	14 29	48.3	6.9	21 48	41.4	27 **
35.0	33.1	32.0	32.0	32.6	32.4	31.9	31.6	30.5	15 7	39.1	† 2.1	0 54	41.2	28 **
32.5	36.2	29.7	30.1	33.3	32.0	25.3	26.2	32.3	15 26	60.4	18.5	23 3	41.9	29 **
35.3	33.0	32.9	32.7	32.2	31.3	31.0	28.6	31.3	13 28	41.5	10.3	1 14	31.2	30
33.9	31.6	30.3	30.4	29.1	27.3	26.3	27.7	31.1	13 16	43.2	23.3	22 52	19.9	31
35.7	34.5	33.4	32.2	31.9	29.6	29.6	29.2	32.1	-	44.1	20.6	-	23.5	Mean
34.0	33.5	33.5	33.1	32.5	31.9	31.7	31.1	32.5	-	39.7	25.5	-	14.2	Mean *
34.7	36.0	31.5	31.2	31.7	23.8	26.1	24.5	31.4	-	54.4	7.1	-	47.3	Mean **
8° + Tabular Quantities														
APRIL														
										h m		h m		
35.4	31.9	27.9	28.0	29.1	29.4	28.3	25.3	30.7	13 37	42.9	22.9	23 56	20.0	1
36.1	34.3	30.7	29.0	30.3	30.0	25.4	28.4	30.9	14 11	41.8	24.0	22 32	17.8	2
34.8	32.7	28.4	23.9	26.9	26.3	25.3	27.3	30.9	14 29	40.0	22.1	19 25	17.9	3
36.9	34.0	33.1	31.1	27.9	27.1	25.7	24.2	30.1	14 31	42.9	22.0	3 17	20.9	4
35.9	35.9	34.9	34.9	34.1	33.0	31.1	25.9	31.4	14 57	51.3	20.2	23 44	31.1	5 **
35.0	33.2	33.0	33.1	32.9	32.3	31.1	31.2	32.1	13 31	41.8	17.2	1 23	24.6	6
34.6	33.9	34.0	33.9	33.1	32.8	32.0	32.1	31.8	14 15	39.1	24.0	8 16	15.1	7 *
36.7	34.0	32.4	32.0	30.1	28.1	28.5	28.1	33.1	13 54	45.0	23.1	21 51	21.9	8
37.1	35.7	33.3	30.3	28.4	27.1	25.3	27.0	32.1	14 7	41.8	18.7	24 0	23.1	9
30.4	27.2	27.6	29.6	31.4	32.6	32.7	32.3	30.3	13 14	40.7	16.6	3 52	24.1	10 **
35.0	32.8	32.8	33.2	32.8	32.2	31.2	30.3	31.9	13 13	43.9	23.7	8 26	20.2	11
35.0	30.0	28.6	30.7	32.0	31.1	31.0	31.8	31.5	13 39	40.5	24.1	7 57	16.4	12
34.9	33.8	32.7	32.8	32.9	32.2	32.0	32.2	32.5	13 33	40.9	25.6	8 9	15.3	13 *
35.9	34.2	34.0	34.2	33.7	33.2	33.0	32.2	32.2	14 18	39.7	23.9	8 27	15.8	14 *
37.2	35.6	34.0	32.9	31.7	30.0	29.8	19.6	32.6	14 11	47.7	16.1	23 26	31.6	15
39.0	34.9	33.1	33.0	32.0	31.2	27.7	27.3	31.4	13 27	45.1	20.9	0 0	24.2	16
40.0	40.0	38.3	37.8	35.0	35.4	28.2	23.7	33.5	13 27	50.1	14.1	23 56	36.0	17 **

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

TABLE IIa. - 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	774	774	774	775	774	772	774	774	775	776	776	755	754	764	761	750	
2	777	771	774	773	772	773	774	775	781	789	781	774	767	773	774	772	
3	731	728	731	733	733	733	734	734	737	736	738	736	734	738	737	740	
4	759	761	761	761	758	758	762	760	754	755	758	759	761	763	762	758	
5 *	772	771	773	775	776	775	774	773	772	765	761	760	759	765	772	770	
6	768	772	772	776	783	790	791	786	781	773	764	757	752	757	767	772	
7	780	779	781	783	781	782	782	784	780	778	774	768	774	777	776	774	
8	775	781	776	771	772	783	784	777	779	773	764	754	764	763	772	769	
9	766	764	759	764	763	763	764	767	769	764	755	748	749	744	734	738	
10 **	753	752	759	762	756	779	784	772	766	746	742	727	722	731	714	714	
11	746	751	751	754	754	752	754	756	742	725	718	714	719	718	734	744	
12	766	764	763	763	756	765	767	768	760	754	754	751	746	749	754	761	
13 *	777	772	774	774	776	779	779	779	781	774	760	746	740	742	749	763	
14 *	772	774	774	776	778	781	784	784	782	775	764	757	752	754	756	762	
15	780	782	782	780	779	783	787	785	783	774	772	766	764	753	746	760	
16	777	777	778	779	781	783	781	781	777	768	761	758	754	748	752	754	
17	774	779	783	780	776	775	783	780	777	771	766	758	756	763	760	766	
18 *	781	782	782	782	784	786	792	786	782	773	760	754	754	762	765	768	
19	780	781	783	784	786	788	792	793	797	794	776	763	757	763	773	766	
20 *	770	765	769	770	775	776	777	776	776	775	769	756	749	762	769	774	
21 **	785	784	778	777	782	789	784	779	764	775	752	746	738	770	771	764	
22 **	597	583	552	622	624	632	656	664	680	690	678	678	684	693	702	709	
23 **	725	728	726	731	735	740	744	741	725	696	685	682	674	684	691	701	
24	733	733	742	740	736	728	734	735	734	724	717	715	712	723	736	741	
25	718	700	717	722	718	715	726	749	744	738	725	720	722	726	730	734	
26	751	752	748	746	746	754	758	763	761	750	736	731	730	728	732	737	
27	756	755	757	757	757	756	758	764	766	760	754	727	716	727	735	741	
28	760	759	757	761	764	765	767	771	772	767	756	746	746	746	754	762	
29	762	762	764	764	766	762	768	772	771	763	746	736	740	760	760	748	
30 **	723	751	758	751	744	764	766	741	717	715	716	695	696	695	714	730	
31	753	752	746	753	749	746	744	749	741	742	745	745	737	738	741	734	
Mean	756	756	757	759	759	762	765	765	762	757	749	741	739	744	748	751	
Mean *	774	773	774	775	778	779	781	780	779	772	763	755	751	757	762	767	
Mean **	717	720	715	729	728	741	747	739	730	724	715	706	703	715	718	724	
FEBRUARY																	
18000 γ + Tabular Quantities (in γ)																	
1	762	756	753	752	753	758	763	765	764	753	753	748	751	753	752	755	
2	762	763	763	765	768	764	763	765	762	757	758	753	756	760	763	756	
3	756	758	760	764	764	765	761	756	755	753	753	753	762	765	772	763	
4 **	743	745	750	745	751	749	762	762	757	752	745	741	723	734	743	743	
5 **	741	736	750	754	753	735	731	725	711	701	692	694	701	703	714	745	
6	748	751	748	751	747	752	750	747	742	741	746	743	743	744	743	744	
7 *	756	755	757	761	762	763	766	758	751	746	745	742	743	743	743	745	
8	762	757	757	764	766	764	765	772	776	771	760	751	743	746	750	754	
9	768	763	765	762	765	766	770	774	773	766	759	753	749	754	760	763	
10 *	767	763	765	766	767	771	773	776	783	781	769	755	754	761	762	760	
11	779	776	775	788	784	785	792	791	785	775	766	763	755	762	761	766	
12	774	773	773	777	798	782	762	759	764	759	753	751	755	764	763	756	
13 **	780	782	769	771	785	774	785	764	757	743	734	722	698	723	743	725	
14	755	755	753	757	757	755	753	753	748	745	743	742	739	739	743	743	
15	765	768	769	769	768	772	778	783	770	754	760	763	753	743	753	760	
16	765	770	773	774	775	774	773	776	771	770	766	763	760	759	757	755	
17	767	774	775	774	774	776	776	775	775	771	768	758	761	765	773	773	
18	765	765	765	770	772	773	763	761	763	773	781	781	776	773	765	757	
19	750	752	756	760	756	765	753	746	762	756	764	761	753	753	765	758	
20	743	753	750	743	750	755	753	743	735	733	738	739	736	750	759	755	
21 **	765	775	786	773	758	753	758	751	726	728	731	744	749	747	749	755	
22	754	758	746	743	743	744	747	752	751	743	735	732	728	743	749	752	
23	762	755	753	757	753	767	768	763	755	749	752	754	747	763	763	765	
24 **	708	675	711	733	696	730	697	718	705	660	659	676	714	722	721	720	
25	748	744	752	751	747	747	746	751	743	743	759	763	763	756	750	746	
26 *	763	761	765	761	761	763	764	766	768	771	773	781	784	781	773	759	
27 *	769	771	774	771	765	766	771	774	773	768	762	760	763	763	763	763	
28 *	773	773	772	771	773	776	780	779	773	767	765	771	771	775	775	776	
Mean	759	758	760	762	761	762	762	761	757	751	750	748	748	752	755	754	
Mean *	766	765	767	766	766	768	771	771	770	767	763	762	763	765	763	761	
Mean **	747	743	753	755	749	748	747	744	731	717	712	715	717	726	734	738	

* 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		
746	754	763	773	775	774	774	774	768	10 8	784	734	12 3	50	1
771	779	784	758	722	711	713	715	765	9 11	826	688	21 18	138	2
743	746	752	757	758	755	757	756	741	22 46	768	718	11 41	50	3
760	764	766	766	770	765	763	767	761	20 12	775	750	9 34	25	4
771	776	777	776	776	774	768	768	771	19 9	784	755	12 20	29	5 *
775	780	784	786	788	792	786	781	776	21 49	795	745	12 12	50	6
775	780	781	782	782	783	779	777	779	7 12	790	763	11 32	27	7
767	754	749	748	744	754	753	757	766	1 1	790	735	20 49	55	8
745	744	744	747	754	766	765	758	756	21 33	781	721	15 10	60	9
724	744	742	748	754	776	735	758	748	6 41	805	704	15 35	101	10 **
749	759	762	764	764	762	762	757	746	20 27	773	702	13 32	71	11
763	770	775	774	774	774	774	773	763	23 10	782	744	12 20	38	12
769	776	778	782	781	778	776	774	770	0 23	787	736	13 30	51	13 *
767	777	778	774	774	780	778	780	772	7 2	791	748	12 30	43	14 *
765	774	766	766	781	780	777	778	773	6 37	791	740	14 17	51	15
763	767	771	770	772	771	774	775	770	5 50	787	740	13 12	47	16
776	780	779	774	771	775	781	780	773	6 37	787	752	11 21	35	17
773	774	775	776	778	778	778	778	775	6 37	793	748	11 44	45	18 *
750	754	744	751	762	764	766	770	772	8 31	804	736	18 49	68	19
781	777	782	784	786	787	786	786	774	21 24	790	746	12 30	44	20 *
728	727	711	688	740	678	649	569	743	22 21	1018†	604	22 2	414	21 **
716	715	726	724	731	732	730	728	677	16 40	765	728	2 9	437	22 **
705	712	724	740	729	735	738	734	718	19 20	761	658	11 57	103	23 **
746	751	754	754	743	747	748	745	736	19 14	795	701	12 14	94	24
738	742	744	743	751	764	754	751	733	21 28	778	688	1 7	90	25
724	741	743	747	751	756	755	766	746	8 32	770	714	16 29	56	26
735	749	755	756	761	764	766	762	751	22 7	777	704	12 49	73	27
764	764	754	764	764	764	761	764	761	7 57	778	740	13 21	38	28
738	733	700	675	697	712	722	724	744	7 42	777	664	19 39	113	29
734	745	741	742	747	748	750	762	735	6 0	782	683	11 32	99	30 **
744	756	747	754	756	756	760	750	747	22 32	772	729	16 2	43	31
752	757	756	756	759	760	757	755	755	-	792	707	-	85.1	Mean
772	776	778	778	779	779	777	777	772	-	789	747	-	42.4	Mean *
721	729	729	728	740	734	720	710	724	-	826	595	-	230.8	Mean **

18000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
757	763	765	763	761	763	764	763	758	7 38	772	742	11 25	30	1
763	754	748	751	768	766	777	765	761	22 37	788	735	18 32	53	2
760	754	753	759	768	755	743	746	758	20 57	815	734	21 22	81	3
723	725	718	722	711	701	693	716	736	6 33	770	684	22 41	86	4 **
735	738	741	735	745	756	740	744	730	21 33	772	684	13 31	88	5 **
743	749	757	761	760	761	759	758	750	0 57	767	729	8 54	38	6
754	760	760	758	761	764	758	759	755	21 38	771	733	11 46	38	7 **
758	765	763	768	772	778	776	770	763	8 9	783	742	12 32	41	8
763	766	765	765	773	768	770	772	765	7 32	776	745	12 23	31	9
760	765	774	778	783	781	782	781	770	21 9	785	752	12 13	33	10 *
743	744	754	764	764	766	772	775	770	7 21	795	728	16 41	67	11
763	763	767	785	785	784	785	777	770	18 56	816	744	10 40	72	12
741	765	759	726	738	740	750	755	751	17 59	824	663	12 38	161	13 **
743	751	756	763	762	763	766	765	752	22 33	770	732	13 42	38	14
749	760	756	754	763	757	767	765	762	7 9	786	736	13 49	50	15
743	746	745	755	765	767	770	772	764	4 13	782	733	16 39	49	16
766	762	766	769	753	760	758	762	768	2 17	782	746	20 32	36	17
756	762	753	766	748	735	750	752	764	11 6	788	725	21 14	63	18
758	743	757	754	740	746	745	746	754	19 9	793	713	19 31	80	19
760	758	761	767	773	773	778	771	753	22 10	786	725	12 17	61	20
743	742	755	754	770	745	735	737	751	2 1	792	714	8 43	78	21 **
756	763	760	771	779	756	761	777	752	23 9	803	722	12 9	81	22
757	755	797	776	771	751	753	721	759	18 37	826†	707	23 51	119	23
720	735	746	747	753	750	751	748	716	20 6	759	742	9 34	117	24 **
745	750	755	760	763	763	763	765	753	11 37	770	734	8 55	36	25
753	757	764	766	772	773	775	773	768	12 37	786	746	16 22	40	26 *
762	767	774	773	773	770	775	773	768	20 32	782	755	11 23	27	27 *
775	775	775	777	781	776	775	774	774	15 34	787	762	10 41	25	28 *
752	755	759	760	763	760	760	760	757	-	787	725	-	61.4	Mean
761	765	769	770	774	773	773	772	767	-	782	750	-	32.6	Mean *
732	741	744	737	743	738	734	740	737	-	783	677	-	106.0	Mean **

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

TABLE IIa. - 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	775	779	777	781	782	780	779	781	781	776	773	773	774	773	766	774	
2 **	765	739	763	761	771	681	578	649	648	671	668	616	603	626	675	676	
3	695	708	701	694	701	709	693	712	713	701	701	701	708	705	708	713	
4	753	773	768	756	749	745	748	747	744	743	732	733	731	736	747	751	
5	746	765	754	755	753	758	758	756	755	746	736	736	736	755	752	759	
6	774	754	753	757	762	756	757	760	751	745	738	735	741	741	747	748	
7 *	764	769	770	770	765	763	766	760	755	744	742	746	754	761	756	755	
8	771	760	761	761	763	763	770	765	763	751	745	743	734	730	743	761	
9	776	762	764	772	770	767	781	777	773	761	753	745	743	747	745	746	
10 **	783	784	787	794	791	793	790	781	766	751	736	688	660	695	695	677	
11 *	700	703	713	720	715	713	719	716	714	710	705	698	699	705	716	715	
12 *	755	756	765	773	763	769	767	771	756	753	747	735	739	741	745	749	
13 *	764	765	763	761	761	766	769	763	761	752	732	730	739	736	748	753	
14 *	773	769	770	772	773	775	775	773	764	750	736	733	733	735	741	750	
15	785	781	784	790	783	785	792	786	773	757	745	741	750	753	761	766	
16	794	789	755	759	757	764	776	770	751	736	735	738	751	755	766	763	
17	753	767	772	757	755	750	752	755	745	732	725	727	743	741	752	762	
18	770	773	772	768	772	781	782	771	761	751	743	733	724	733	753	760	
19	773	775	775	775	773	776	774	773	769	755	745	745	745	750	754	759	
20	794	781	772	771	779	792	775	774	763	751	742	744	747	753	755	762	
21	774	774	772	783	784	775	781	782	773	763	757	753	762	780	775	800	
22	756	755	756	759	761	761	754	765	765	749	752	753	745	753	751	756	
23	772	775	778	765	754	764	765	761	764	754	741	722	738	738	752	760	
24	776	779	781	780	774	774	775	773	756	744	748	749	757	763	769	773	
25	775	778	791	777	825	782	755	761	755	725	711	706	709	715	734	736	
26	772	767	767	769	766	767	773	775	771	761	751	749	734	745	761	760	
27 **	781	763	765	775	779	764	770	762	753	744	734	746	734	740	771	746	
28 **	727	696	741	736	734	744	739	680	672	672	694	691	677	693	701	715	
29 **	760	763	763	771	781	784	774	777	771	745	736	732	742	778	753	851	
30	716	764	735	733	738	738	733	725	721	709	702	705	711	718	730	741	
31	765	760	754	763	761	770	764	752	744	735	719	722	726	748	736	755	
Mean	762	762	763	763	764	762	758	757	750	740	733	728	729	737	744	751	
Mean *	751	752	756	759	755	757	759	757	750	742	732	728	733	736	741	744	
Mean **	763	749	764	767	771	753	730	730	722	717	714	695	683	706	719	733	
APRIL																	
18000 γ + Tabular Quantities (in γ)																	
1	765	755	757	758	763	749	755	743	732	729	723	724	726	733	747	765	
2	757	775	759	759	761	755	755	756	748	736	723	726	733	730	746	761	
3	773	776	768	769	773	773	780	776	771	763	740	735	753	761	765	769	
4	759	753	758	766	761	762	767	757	742	740	733	731	743	736	757	769	
5 **	761	772	772	770	773	773	773	764	751	741	735	695	720	720	737	744	
6	773	760	767	770	782	760	777	773	745	721	707	707	716	733	740	753	
7 *	773	773	769	771	775	780	783	780	765	747	732	732	739	750	761	771	
8	779	778	785	789	793	797	805	800	781	755	746	753	756	759	746	750	
9	767	775	773	772	777	773	788	781	776	763	747	735	726	724	752	761	
10 **	781	755	778	806	784	739	740	721	712	705	690	677	695	697	702	715	
11	771	761	757	758	759	767	766	764	756	746	733	713	702	721	738	754	
12	771	773	771	765	765	775	777	763	753	743	735	734	735	751	757	776	
13 *	781	772	783	778	781	783	775	761	752	750	746	744	745	741	739	755	
14 *	784	780	775	773	775	773	772	769	763	753	741	743	746	753	760	769	
15	795	795	797	794	796	801	803	802	786	769	756	749	751	765	781	775	
16	774	757	761	773	759	763	763	755	749	745	734	717	742	763	767	773	
17 **	769	775	779	785	778	780	791	773	766	753	742	757	782	794	803	803	

* 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)													MARCH	
										h m	h m	γ		
781	751	740	776	792	792	773	763	775	21 27	807	720	18 28	87	1
676	700	650	665	673	683	690	663	679	5 6	806	†468	6 13	338	2 **
725	753	733	731	741	755	754	749	717	21 53	774	680	6 15	94	3
753	755	761	761	762	767	768	748	751	1 39	783	723	10 49	60	4
762	753	753	755	771	766	760	764	754	20 49	790	726	10 40	64	5
768	763	762	752	750	756	762	762	754	0 26	783	726	11 51	57	6
753	763	773	773	770	761	748	748	760	19 12	777	736	16 26	41	7 *
761	763	766	771	756	754	762	776	758	23 52	825	724	13 49	101	8
753	751	768	768	766	763	766	774	762	21 3	809	735	14 32	74	9
693	711	709	723	724	665	691	693	733	0 30	806	626	21 33	180	10 **
718	726	735	744	753	753	755	759	721	23 6	762	692	11 39	70	11 *
749	753	755	761	764	766	765	765	757	3 34	782	727	11 32	55	12 *
754	741	755	751	761	771	772	774	756	22 36	781	719	17 30	62	13 *
764	772	775	775	780	782	784	785	764	23 55	791	730	11 41	61	14 *
770	773	771	771	792	819	809	785	776	21 18	835	735	11 41	100	15
775	774	803	735	730	741	747	755	759	0 56	833	710	19 23	123	16
764	752	768	769	771	773	782	773	756	22 11	794	717	11 4	77	17
763	767	774	779	779	787	773	771	764	21 24	797	710	12 13	87	18
769	777	776	792	795	771	773	783	769	19 51	821	740	10 40	81	19
763	765	773	780	779	781	781	782	769	22 0	832	736	10 37	96	20
785	756	744	742	752	751	732	766	767	15 37	812	714	22 33	98	21
762	754	763	767	763	763	755	765	758	7 55	786	734	14 6	52	22
753	756	772	781	775	778	775	773	761	2 12	784	712	11 20	72	23
775	783	787	775	783	781	765	773	771	21 10	820	742	9 22	78	24
751	761	764	766	774	773	772	773	757	4 19	842	685	12 54	157	25
767	755	757	768	779	773	782	768	764	22 22	792	724	12 23	68	26
749	783	785	788	748	714	752	752	758	19 9	815	688	23 2	127	27 **
744	753	756	759	763	765	766	763	724	0 0	801	652	0 47	149	28 **
723	752	713	718	741	743	724	715	755	15 24	1001†	652	14 11	349	29 **
741	746	753	760	765	766	763	769	737	1 21	800	697	10 39	103	30
773	789	765	754	763	764	746	743	753	16 57	813	714	11 3	99	31
753	756	757	758	762	761	760	759	753	-	808	703	-	105.2	Mean
748	751	759	761	766	767	765	766	752	-	779	721	-	57.8	Mean *
717	740	723	731	730	714	725	717	730	-	846	617	-	228.6	Mean **
18000 γ + Tabular Quantities (in γ)													APRIL	
										h m	h m	γ		
774	779	773	763	756	762	783	773	754	22 53	799	719	10 50	80	1
763	781	783	781	774	773	763	757	756	19 6	801	719	10 44	82	2
781	785	771	791	756	745	753	775	767	19 39	805	723	10 53	82	3
770	769	779	772	771	764	757	757	757	18 50	786	724	11 9	62	4
771	780	781	785	788	786	771	784	760	23 41	822	681	11 29	141	5 **
758	762	768	767	770	773	773	775	755	2 47	792	697	11 21	95	6
773	781	781	783	785	787	787	784	769	23 9	793	729	11 32	64	7 *
754	768	775	772	761	770	772	766	771	6 35	810	738	14 30	72	8
760	771	779	762	771	767	763	781	764	6 25	797	710	12 52	87	9
734	733	736	745	755	759	763	762	737	3 38	833	667	11 20	166	10 **
762	766	774	777	773	773	781	782	756	23 1	803	685	13 5	118	11
777	764	781	776	776	774	778	782	765	23 38	792	732	11 18	60	12
771	777	775	777	780	782	789	784	768	22 33	795	730	14 28	65	13 *
779	786	796	793	793	801	801	797	774	22 2	808	737	10 31	71	14 *
785	785	788	784	796	785	760	793	783	20 53	825	744	11 51	81	15
772	780	781	776	783	785	772	768	763	0 0	815	685	10 56	130	16
815	808	813	833	814	821	782	813	789	23 39	989	733	11 38	256	17 **

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

TABLE IIIa. - 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
43000 γ + Tabular Quantities (in γ)																	
JANUARY																	
1	384	385	384	384	383	382	381	378	375	374	372	374	375	373	379	384	
2	383	384	384	383	383	382	379	376	372	366	363	364	365	371	374	377	
3	408	405	402	400	397	394	393	392	391	387	380	380	380	380	386	393	
4	391	393	393	393	392	391	390	385	381	378	376	375	378	382	384	387	
5 *	386	386	386	386	386	385	385	384	382	382	377	374	371	373	375	376	
6	384	385	384	385	384	383	382	379	379	379	375	374	372	370	374	379	
7	380	382	381	381	380	380	376	376	376	374	365	362	362	364	371	374	
8	382	377	377	377	378	376	376	376	376	374	369	371	371	372	375	376	
9	400	385	385	384	384	384	384	384	382	377	372	372	373	375	387	405	
10 **	384	382	376	374	376	374	367	361	364	365	368	370	369	374	384	397	
11	386	387	386	387	386	386	386	386	386	386	386	387	385	382	384	386	
12	393	388	388	387	386	384	384	384	382	374	370	366	367	374	374	375	
13 *	384	382	382	382	382	382	382	381	382	382	381	380	382	382	383	384	
14 *	384	384	384	384	384	382	379	380	381	381	375	378	375	374	382	384	
15	381	381	382	381	378	376	376	376	375	376	374	367	371	373	376	384	
16	381	382	382	382	380	379	377	375	376	374	371	370	367	371	380	385	
17	382	383	382	381	379	379	382	378	381	376	373	366	364	372	382	386	
18 *	382	380	381	381	380	380	378	376	375	372	366	364	363	366	376	381	
19	378	378	379	381	381	379	376	375	374	367	362	354	354	360	373	382	
20 *	384	384	383	383	383	383	383	379	375	375	370	364	364	365	368	376	
21 **	374	374	376	376	374	371	371	374	377	376	371	365	369	372	377	396	
22 **	343	313	333	397	404	394	410	418	424	422	420	418	419	416	416	416	
23 **	407	406	404	404	404	402	400	401	402	397	396	396	401	404	412	422	
24	406	404	398	397	394	394	396	401	405	406	398	398	392	393	402	404	
25	400	408	414	407	399	398	401	395	402	404	403	404	403	403	405	405	
26	402	402	398	397	397	396	398	396	399	397	398	394	388	385	392	401	
27	396	396	396	396	393	394	394	394	391	384	385	385	383	385	392	401	
28	398	397	397	396	394	393	391	392	392	392	392	393	387	382	390	394	
29	396	395	394	394	394	392	392	390	388	385	384	384	376	384	403	416	
30 **	409	384	379	382	378	371	374	376	381	385	388	390	392	396	407	416	
31	404	404	404	403	399	395	395	393	391	392	394	394	392	392	397	404	
Mean	389	386	386	388	387	385	385	384	384	383	380	378	378	380	386	392	
Mean *	384	383	383	383	383	382	381	380	379	378	374	372	371	372	377	380	
Mean **	383	372	374	387	387	382	384	386	390	389	389	388	390	392	399	409	
FEBRUARY																	
43000 γ + Tabular Quantities (in γ)																	
1	403	402	402	398	397	395	394	394	392	389	387	388	384	383	390	394	
2	393	395	396	396	394	392	392	386	385	386	387	386	380	381	378	382	
3	395	396	397	396	395	394	394	393	386	384	377	373	370	371	377	378	
4 **	397	395	397	400	396	394	393	392	389	386	384	384	384	400	413	421	
5 **	392	387	385	376	362	356	366	372	377	381	383	385	399	417	426	426	
6	404	397	398	401	398	396	394	394	392	389	388	387	386	392	399	402	
7 *	396	397	398	398	398	398	398	400	398	392	389	386	384	381	385	392	
8	398	399	398	396	395	394	394	392	387	386	387	387	383	382	384	389	
9	394	394	394	392	391	388	388	388	391	392	385	377	376	381	385	387	
10 *	396	397	396	394	394	393	393	389	383	380	381	381	382	384	384	383	
11	390	391	391	387	386	386	385	385	392	394	390	387	388	390	391	393	
12	394	393	393	390	378	372	376	383	388	394	396	398	398	402	407	406	
13 **	395	391	391	391	387	379	373	377	381	382	386	388	393	404	413	416	
14	398	396	397	396	395	393	393	397	401	402	397	394	393	392	396	396	
15	395	396	396	395	394	394	391	388	388	384	382	375	381	385	385	391	
16	392	394	394	393	391	386	385	385	384	381	375	371	371	374	383	386	
17	394	393	393	392	391	391	387	384	384	384	383	374	374	376	383	391	
18	403	402	395	394	390	385	385	384	385	384	382	380	376	375	382	386	
19	394	395	396	395	396	393	391	387	386	390	394	390	392	389	393	390	
20	390	394	390	394	394	391	394	395	396	394	390	388	393	396	395	394	
21 **	392	391	385	378	380	385	391	391	382	379	382	381	377	384	394	404	
22	391	387	386	392	394	392	394	396	396	394	392	387	385	391	396	399	
23	394	395	395	395	393	391	389	387	389	390	389	385	385	389	393	399	
24 **	391	356	364	342	336	335	340	361	374	382	391	402	412	415	414	413	
25	404	406	404	404	402	402	401	403	397	392	389	387	387	389	393	396	
26 *	397	397	397	395	394	394	392	393	393	393	384	376	376	377	384	387	
27 *	395	397	396	393	392	392	390	390	391	390	387	384	381	379	385	389	
28 *	394	394	394	394	394	394	394	393	394	393	386	384	382	382	384	387	
Mean	395	394	394	392	390	388	388	389	389	388	387	384	385	388	393	396	
Mean *	396	396	396	395	394	394	393	393	392	390	385	382	381	381	384	388	
Mean **	393	384	384	377	372	370	373	379	381	382	385	388	393	404	412	416	

* 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		
391	391	390	386	385	384	383	383	382	16 24	396	368	11 2	28	1
383	384	384	392	411	421	421	414	384	22 29	434	353	9 50	81	2
394	393	393	392	391	390	390	388	392	0 6	414	373	11 4	41	3
392	394	389	388	386	385	385	386	386	17 23	401	372	11 6	29	4
383	384	383	384	385	382	384	386	382	23 14	390	368	12 31	22	5 *
384	384	382	382	382	378	376	378	380	16 50	387	366	13 19	21	6
380	382	380	382	383	382	378	377	376	16 25	388	359	13 3	29	7
384	386	394	400	402	398	395	394	382	20 27	406	364	11 6	42	8
402	396	397	398	396	392	386	384	387	15 30	412	369	12 58	43	9
410	414	406	404	400	395	392	390	383	17 28	421	357	7 16	64	10 **
394	394	392	392	393	394	392	394	388	16 19	399	378	13 32	21	11
384	384	384	384	384	384	384	384	381	0 20	394	364	12 13	30	12
386	385	384	384	384	382	382	382	383	16 52	390	378	7 43	12	13 *
388	384	384	384	383	382	380	382	382	16 19	395	371	11 6	24	14 *
386	384	384	385	383	382	380	380	379	16 20	391	365	11 35	26	15
390	386	385	384	384	383	382	382	380	17 21	395	366	13 2	29	16
387	384	383	382	384	382	379	378	379	16 28	392	361	12 32	31	17
385	384	382	382	381	377	376	375	377	16 28	391	360	12 44	31	18 *
386	387	392	398	396	392	390	386	378	19 14	401	351	12 3	50	19
382	379	380	380	380	377	374	374	377	0 30	387	363	12 21	24	20 *
412	436	491	492	541	587	448	394	408	22 11	688†	266	22 32	422	21 **
416	413	414	414	414	410	409	407	403	1 32	452	†179	2 3	273	22 **
426	424	425	420	415	414	414	410	409	18 34	436	391	11 3	45	23 **
405	402	403	414	414	412	410	414	403	20 44	426	387	13 12	39	24 **
407	404	405	406	407	404	400	400	404	2 3	421	390	7 27	31	25
403	404	404	404	404	404	404	402	399	17 39	408	381	13 16	27	26
402	401	399	398	400	401	397	396	394	16 50	405	382	9 42	23	27
394	394	396	396	396	397	397	396	394	19 22	402	378	13 30	24	28
423	429	444	459	457	436	432	422	407	19 37	469	375	12 49	94	29
418	414	413	416	410	407	406	405	396	16 29	423	364	5 40	59	30 **
406	405	406	406	404	404	402	403	400	16 46	412	385	8 4	27	31
396	396	398	400	401	401	394	392	389	-	417	361	-	56.2	Mean
385	383	383	383	383	380	379	380	380	-	391	368	-	22.6	Mean *
416	420	430	429	436	443	414	401	400	-	484	311	-	172.6	Mean **

43000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
394	394	396	395	395	393	393	392	394	0 48	405	376	13 2	29	1
391	395	403	401	399	396	394	394	391	18 41	406	374	14 4	32	2
386	394	397	399	404	394	395	396	389	20 43	409	366	12 53	43	3
423	431	427	426	415	411	406	392	402	17 28	436	376	12 3	60	4 **
419	418	414	416	414	411	404	402	395	15 10	436	349	5 34	87	5 **
404	404	405	403	402	401	398	396	397	18 17	407	383	12 40	24	6
394	396	398	401	403	404	402	400	395	20 35	406	377	12 53	29	7 *
394	396	397	398	397	395	395	394	392	18 22	404	377	13 3	27	8
389	393	395	399	400	400	397	400	391	23 23	404	372	12 31	32	9
384	386	390	391	392	389	388	388	388	0 31	402	376	9 27	26	10 *
403	405	405	402	397	396	394	395	393	16 46	413	380	7 1	33	11
401	398	396	393	391	388	392	392	392	14 45	410	369	5 30	41	12
415	410	408	430	416	408	402	401	397	19 29	441†	370	6 10	71	13 **
397	399	398	397	396	394	394	394	396	7 54	405	388	13 4	17	14
394	394	395	395	395	394	392	388	390	20 34	399	372	11 52	27	15
395	403	404	401	396	393	393	393	388	18 33	406	366	11 43	40	16
393	393	397	397	401	403	403	403	390	22 21	405	371	11 48	34	17
394	399	403	405	402	404	402	393	391	19 16	410	373	12 5	37	18
397	406	412	411	411	405	400	387	396	18 20	416	383	8 13	33	19
398	400	402	401	400	396	394	392	395	18 29	407	385	11 27	22	20
414	416	413	411	412	406	403	396	394	16 47	424	374	12 48	50	21 **
412	410	404	405	402	398	401	392	396	16 17	417	382	2 18	35	22
404	414	411	407	408	413	408	397	397	18 9	422	383	12 9	39	23
412	412	407	406	407	406	404	404	387	12 56	417	†326	3 49	91	24 **
397	397	397	397	397	397	397	397	397	1 31	410	384	11 59	26	25
391	393	393	392	393	394	394	394	391	0 43	402	373	11 59	29	26 *
386	387	391	391	394	393	393	395	390	23 2	402	377	12 52	25	27 *
388	386	390	391	391	390	392	392	390	6 9	402	378	12 43	24	28 *
399	401	402	402	401	399	398	395	393	-	412	374	-	38.0	Mean
389	390	392	393	395	394	394	394	391	-	403	376	-	26.6	Mean *
417	417	414	418	413	408	404	399	395	-	431	359	-	71.8	Mean **

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

TABLE IIIa. - 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	393	391	391	391	390	386	384	384	383	383	383	376	375	380	381	384	
2 **	393	393	396	365	352	300	283	308	345	374	383	399	422	449	513	502	
3	408	401	395	402	409	410	411	413	410	408	410	404	403	406	415	415	
4	407	403	395	389	391	392	395	399	400	395	392	390	391	395	403	401	
5	403	399	395	400	403	401	400	401	397	397	395	396	393	394	394	402	
6	398	391	397	400	401	401	400	395	393	387	388	386	380	383	398	411	
7 *	403	402	399	398	397	399	401	403	401	396	394	390	385	386	395	406	
8	403	399	400	401	401	401	400	395	391	384	382	376	374	379	383	385	
9	387	392	393	390	389	384	382	384	387	389	385	379	377	383	389	399	
10 **	401	395	393	392	385	374	375	379	376	383	377	379	396	424	475	498	
11 *	433	425	424	423	421	416	414	413	411	405	401	393	393	395	401	405	
12 *	410	408	405	403	400	400	395	400	401	396	401	401	401	401	403	405	
13 *	405	403	403	403	401	401	400	403	401	395	391	385	383	387	394	405	
14 *	404	404	403	403	400	400	400	403	401	394	389	383	383	383	393	396	
15	397	397	395	392	391	392	391	394	393	385	376	371	371	372	378	387	
16	393	382	380	388	392	392	392	394	393	386	381	381	385	390	400	403	
17	405	403	398	397	401	400	399	395	393	385	381	374	375	381	389	400	
18	396	397	397	398	396	395	395	400	399	390	381	376	383	393	399	403	
19	395	396	396	396	396	395	395	401	393	385	378	371	370	373	379	387	
20	385	383	386	390	393	387	385	391	388	378	370	366	366	371	376	385	
21	391	393	394	395	391	387	389	393	391	387	376	365	363	363	373	393	
22	400	398	400	401	401	395	392	393	384	381	374	374	374	385	397	405	
23	383	381	383	380	386	392	394	401	402	396	387	383	383	383	387	400	
24	394	394	390	389	392	393	396	400	395	389	380	374	375	379	384	392	
25	398	395	390	373	355	345	365	383	389	383	385	387	394	403	403	404	
26	401	401	401	400	397	395	401	403	401	391	382	375	373	377	391	401	
27 **	377	385	392	391	384	386	394	395	391	381	373	373	372	375	389	397	
28 **	349	355	366	382	394	371	340	345	363	376	385	391	393	399	407	419	
29 **	405	405	403	401	396	391	393	399	395	387	381	377	381	385	405	481	
30	405	391	386	394	400	402	411	413	405	396	394	390	389	393	402	413	
31	399	401	401	401	401	391	399	403	401	395	386	376	376	389	394	405	
Mean	397	396	395	394	394	389	389	393	393	389	385	382	383	389	400	409	
Mean *	411	408	407	406	404	403	402	404	403	397	395	390	389	390	397	403	
Mean **	385	387	390	386	382	364	357	365	374	380	380	384	393	406	438	459	
APRIL																	
43000 γ + Tabular Quantities (in γ)																	
1	390	394	398	396	397	394	397	395	389	380	374	372	376	386	400	417	
2	395	388	391	400	402	402	404	401	394	386	382	376	377	380	386	394	
3	401	399	402	403	403	396	398	404	400	395	384	382	388	397	404	414	
4	394	397	393	390	392	391	388	394	391	388	382	380	377	381	393	408	
5 **	406	404	395	396	395	396	402	404	397	388	381	375	385	385	392	412	
6	384	377	372	364	374	377	381	381	379	375	368	366	368	377	392	406	
7 *	399	399	401	401	401	401	405	405	400	392	381	364	364	372	381	387	
8	394	396	396	396	395	394	394	394	386	379	371	365	364	375	391	402	
9	404	401	396	396	395	392	386	382	377	373	370	369	370	379	401	420	
10 **	382	376	353	340	326	321	343	361	370	376	390	394	397	413	435	454	
11	410	405	408	408	407	410	407	404	399	393	385	378	377	383	393	396	
12	404	404	403	402	400	397	396	400	395	386	382	375	372	376	385	386	
13 *	396	396	394	395	396	394	394	396	395	389	382	376	379	386	396	402	
14 *	396	400	402	401	399	396	395	394	387	381	372	364	364	367	372	378	
15	396	396	396	395	392	389	389	388	384	372	359	348	351	364	379	387	
16	382	385	393	394	395	396	395	395	394	387	371	360	359	372	383	396	
17 **	398	397	396	395	387	388	390	387	382	374	371	370	367	382	385	383	

* 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)													
MARCH													
										h m		h m	γ
396	403	419	415	408	400	396	400	391	18 47	424	373	12 4	51
462	448	473	486	474	463	423	395	408	14 43	529†	222	6 1	307
427	435	427	425	421	414	405	404	412	17 7	443	392	2 48	51
403	404	403	403	405	405	403	402	399	0 55	411	385	3 38	26
413	418	418	414	409	404	404	403	402	17 45	422	391	12 48	31
424	421	412	411	414	413	407	406	401	16 47	430	377	12 32	53
416	415	406	403	403	405	405	407	401	16 47	424	382	13 6	42
394	401	403	403	407	409	406	402	395	21 27	412	370	12 3	42
407	413	410	405	406	403	403	401	393	17 27	415	373	11 57	42
505	500	496	465	453	432	438	439	422	16 9	517	365	10 55	152
411	411	413	413	412	411	411	409	411	0 0	445	390	12 4	55
405	405	403	403	402	401	403	403	402	16 27	411	393	9 38	18
417	423	422	418	414	411	410	405	403	17 19	429	381	12 38	48
401	401	397	395	396	396	396	397	397	0 23	410	380	11 57	30
394	399	402	402	401	394	393	393	390	18 34	404	366	11 45	38
409	406	413	411	416	410	411	406	396	21 9	421	373	2 9	48
413	421	414	405	402	401	395	395	397	17 31	424	372	11 53	52
405	405	403	399	401	399	394	394	396	16 23	410	372	11 9	38
396	405	406	406	399	395	395	393	392	17 24	412	365	11 58	47
396	396	398	395	395	397	391	391	386	18 27	405	363	11 7	42
412	433	451	456	449	431	423	413	401	19 18	462	357	12 3	105
419	431	431	423	413	409	407	402	400	18 1	435	369	10 43	66
412	415	412	406	405	403	402	397	395	17 30	419	376	3 30	43
394	395	401	402	405	397	395	397	392	20 20	410	373	11 17	37
412	406	404	404	403	400	400	401	391	16 46	412	340	5 27	72
411	415	414	410	408	406	402	393	398	17 19	422	366	11 57	56
399	405	415	416	423	423	390	384	392	21 38	433	363	24 0	70
421	413	405	405	405	405	403	404	387	16 18	425	329	7 2	96
480	472	476	446	431	423	413	413	414	15 25	509	363	13 38	146
418	417	413	411	411	408	405	404	403	16 17	422	384	2 10	38
418	428	426	421	413	401	397	401	401	16 49	431	372	11 50	59
416	418	419	415	413	409	404	402	399	-	432	367	-	64.5
410	411	408	406	405	405	405	404	403	-	424	385	-	38.6
453	448	453	444	437	429	413	407	405	-	483	328	-	154.2
43000 γ + Tabular Quantities (in γ)													
APRIL													
										h m		h m	γ
435	442	443	430	422	416	406	396	402	18 10	450	367	11 29	83
403	407	414	413	408	407	406	404	397	18 27	420	374	11 13	46
424	432	431	426	413	414	413	390	405	18 47	436	377	11 24	59
421	425	424	426	422	414	411	406	399	19 23	431	375	12 58	56
420	410	410	410	406	404	406	400	399	16 0	430	370	11 11	60
417	414	407	406	404	402	401	401	387	16 43	421	356	2 59	65
393	394	394	396	396	394	394	394	392	7 2	407	359	11 47	48
410	413	414	420	423	418	409	406	396	20 19	426	357	12 3	69
418	417	425	426	423	414	406	396	397	18 24	430	365	10 54	65
472	470	447	432	422	415	413	411	396	17 13	476	310	5 22	166
402	404	404	404	405	406	405	400	400	0 7	414	371	11 59	43
395	403	418	412	407	406	404	398	396	18 27	424	368	12 32	56
404	407	404	401	397	396	396	394	394	17 33	411	374	11 33	37
383	387	389	390	390	391	391	393	387	3 26	402	362	11 52	40
395	402	408	408	406	397	381	389	386	18 33	413	344	11 48	69
408	420	422	412	408	405	403	401	393	18 11	431	355	10 54	76
385	383	385	390	396	399	401	394	387	23 37	444	363	12 2	81

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

MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

TABLE IVa. - All Days

DECLINATION WEST (Unit 0'.01)

Month and Season, 1957	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-240	-174	-214	-249	-199	-157	-131	-152	-205	-233	-132	+ 43	+301
February	-261	-321	-384	-297	-196	-119	-100	- 96	- 96	- 62	+ 24	+216	+355
March	-356	-335	-304	-297	-285	-176	-225	-322	-439	-319	- 53	+331	+620

INCLINATION (Unit 0'.01)

January	- 6	- 12	- 15	- 30	- 32	- 56	- 77	- 78	- 59	- 28	+ 15	+ 63	+ 74
February	- 7	- 6	- 20	- 35	- 38	- 51	- 46	- 39	- 13	+ 25	+ 30	+ 32	+ 39
March	- 66	- 70	- 75	- 80	- 90	- 84	- 57	- 40	+ 3	- 1	+ 94	+ 119	+118

HORIZONTAL INTENSITY (Unit 0.1γ)

January	+ 9	+ 8	+ 11	+ 41	+ 39	+ 69	+100	+ 98	+ 69	+ 15	- 61	-139	-158
February	+ 20	+ 12	+ 32	+ 47	+ 42	+ 53	+ 46	+ 39	+ 1	- 59	- 73	- 85	- 94
March	+ 93	+ 90	+ 95	+100	+112	+ 84	+ 44	+ 34	- 31	- 42	-201	-251	-245

TABLE Va. - International Quiet Days

DECLINATION WEST (Unit 0'.01)

January	-122	-126	-104	- 84	-130	-122	-118	-146	-180	-266	-188	+ 12	+256
February	-171	-215	-209	-229	-185	-169	-151	-145	-165	-177	- 59	+135	+237
March	-249	-183	-177	-173	-203	-191	-185	-325	-371	-281	- 37	+223	+451

INCLINATION (Unit 0'.01)

January	- 2	+ 7	- 4	- 11	- 27	- 40	- 55	- 48	- 44	- 4	+ 47	+ 96	+ 119
February	+ 23	+ 32	+ 18	+ 18	+ 20	+ 4	- 18	- 18	- 15	- 1	+ 12	+ 10	- 2
March	+ 26	+ 10	- 20	- 42	- 23	- 37	- 54	- 30	+ 11	+ 49	+106	+ 119	+ 85

HORIZONTAL INTENSITY (Unit 0.1γ)

January	+ 20	+ 4	+ 20	+ 30	+ 54	+ 70	+ 88	+ 72	+ 62	0	- 96	-178	-216
February	- 14	- 24	- 4	- 10	- 14	+ 8	+ 38	+ 36	+ 26	- 4	- 42	- 52	- 40
March	- 3	+ 9	+ 47	+ 77	+ 39	+ 57	+ 77	+ 51	- 15	- 97	-191	-231	-187

TABLE VIa. - International Disturbed Days

DECLINATION WEST (Unit 0'.01)

January	-380	-148	-304	-476	-314	-218	- 48	-178	-226	-120	- 74	+ 40	+364
February	-366	-602	-904	-654	-262	+ 98	+118	+ 36	+ 24	+ 48	+204	+416	+628
March	-633	-509	-331	-365	-417	+117	-211	-271	-447	-233	+ 13	+485	+739

INCLINATION (Unit 0'.01)

January	+ 4	- 49	- 11	- 67	- 62	-160	-195	-141	- 70	- 32	+ 32	+ 90	+ 115
February	- 75	- 70	-140	-173	-144	-148	-130	- 95	- 4	+ 97	+ 137	+123	+127
March	-281	-181	-270	-305	-342	-273	-141	-115	- 37	+ 17	+ 36	+174	+ 276

HORIZONTAL INTENSITY (Unit 0.1γ)

January	- 76	- 46	- 96	+ 44	+ 40	+166	+226	+152	+ 62	+ 2	- 96	-186	-214
February	+105	+ 57	+163	+ 183	+117	+113	+ 97	+ 71	- 57	-201	-247	-215	-199
March	+335	+193	+341	+377	+ 415	+235	+ 5	+ 1	- 77	-131	-161	-351	-465

DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

TABLE IVa. - All Days

DECLINATION WEST (Unit 0.'01)											Range	Month and Season, 1957
Universal Time. Hour commencing												
13	14	15	16	17	18	19	20	21	22	23		
+488	+528	+433	+316	+286	+244	+ 81	- 45	-142	-210	-244	7.77	January
+459	+408	+319	+235	+213	+173	+ 27	+ 9	- 85	-198	-230	8.43	February
+826	+797	+622	+359	+236	+128	+ 10	- 23	-251	-255	-294	12.65	March
INCLINATION (Unit 0.'01)												
+ 46	+ 39	+ 38	+ 45	+ 9	+ 20	+ 25	+ 9	+ 3	+ 2	+ 8	1.52	January
+ 21	+ 15	+ 27	+ 51	+ 37	+ 13	+ 4	- 15	0	- 10	- 15	1.02	February
+ 80	+ 64	+ 42	+ 51	+ 33	+ 34	+ 13	- 17	- 21	- 28	- 31	2.09	March
HORIZONTAL INTENSITY (Unit 0.1γ)											γ	
-108	- 71	- 44	- 35	+ 17	+ 12	+ 10	+ 40	+ 46	+ 21	+ 1	25.8	January
- 54	- 24	- 29	- 52	- 21	+ 18	+ 33	+ 57	+ 26	+ 34	+ 31	15.1	February
-163	- 93	- 18	- 3	+ 33	+ 36	+ 52	+ 86	+ 74	+ 64	+ 59	36.3	March

TABLE Va. - International Quiet Days

DECLINATION WEST (Unit 0.'01)											Range	Month and Season, 1957
+424	+404	+310	+182	+128	+ 96	+ 32	- 34	- 54	- 70	- 94			6.90	January
+345	+305	+223	+173	+189	+177	+135	+ 61	+ 15	- 51	- 69	5.74	February
+593	+549	+405	+155	+105	+107	+ 59	+ 1	- 53	- 79	-135	9.64	March
INCLINATION (Unit 0.'01)												
+ 80	+ 59	+ 34	+ 15	- 15	- 30	- 32	- 36	- 47	- 34	- 32	1.74	January
- 14	+ 7	+ 33	+ 35	+ 11	- 12	- 16	- 36	- 30	- 32	- 25	0.71	February
+ 71	+ 53	+ 49	+ 47	+ 27	- 32	- 52	- 87	- 95	- 83	- 94	2.14	March
HORIZONTAL INTENSITY (Unit 0.1γ)											γ	
-154	-102	- 50	- 2	+ 36	+ 56	+ 60	+ 66	+ 70	+ 48	+ 48	30.4	January
- 24	- 38	- 64	- 62	- 22	+ 24	+ 34	+ 70	+ 58	+ 60	+ 50	13.4	February
-159	-103	- 71	- 39	- 5	+ 71	+ 93	+141	+151	+133	+147	38.2	March

TABLE VIa. - International Disturbed Days

DECLINATION WEST (Unit 0.'01)											Range	Month and Season, 1957
+640	+694	+626	+418	+376	+364	+116	- 80	-202	-404	-474			11.70	January
+786	+574	+438	+362	+158	+290	-252	-192	-318	-368	-258	16.90	February
+1043	+1247	+943	+325	+461	+ 13	- 17	+ 25	-759	-527	-689	20.06	March
INCLINATION (Unit 0.'01)												
+ 43	+ 38	+ 32	+ 67	+ 30	+ 56	+ 57	- 2	+ 60	+ 66	+ 98	3.10	January
+100	+ 68	+ 56	+ 92	+ 37	+ 8	+ 66	+ 8	+ 28	+ 46	- 10	3.10	February
+160	+167	+135	+225	+ 56	+186	+106	+ 93	+175	+ 59	+ 90	6.18	March
HORIZONTAL INTENSITY (Unit 0.1γ)											γ	
- 96	- 58	- 6	- 28	+ 44	+ 46	+ 42	+160	+ 96	- 38	-140	44.0	January
-111	- 29	+ 7	- 45	+ 41	+ 69	- 1	+ 65	+ 15	- 31	+ 31	43.0	February
-233	-107	+ 33	-127	+101	- 71	+ 9	+ 1	-157	- 51	-125	88.0	March

MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL

TABLE IVa. - All Days

Month and Season, 1957	NORTH COMPONENT (Unit 0.1 γ)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 28	+ 22	+ 28	+ 61	+ 55	+ 81	+110	+109	+ 85	+ 34	- 50	-141	-181
February	+ 41	+ 38	+ 63	+ 71	+ 57	+ 62	+ 54	+ 46	+ 9	- 53	- 74	-102	-122
March	+121	+116	+119	+123	+134	+ 97	+ 62	+ 60	+ 5	- 16	-194	-275	-293
	WEST COMPONENT (Unit 0.1 γ)												
January	-128	- 93	-114	-128	-102	- 74	- 56	- 67	-100	-123	- 80	+ 2	+139
February	-138	-171	-202	-153	- 99	- 56	- 47	- 46	- 52	- 42	+ 2	+104	+178
March	-178	-167	-150	-145	-137	- 82	-115	-169	-241	-178	- 59	+141	+298
	VERTICAL COMPONENT (Unit 0.1 γ)												
January	0	- 24	- 25	- 8	- 19	- 36	- 37	- 45	- 43	- 62	- 89	-103	-110
February	+ 23	+ 8	+ 5	- 14	- 35	- 54	- 53	- 45	- 44	- 49	- 65	- 86	- 83
March	- 15	- 34	- 39	- 45	- 52	- 95	- 96	- 59	- 63	-100	-138	-170	-158

TABLE Va. - International Quiet Days

	NORTH COMPONENT (Unit 0.1 γ)												
January	+ 30	+ 14	+ 28	+ 36	+ 64	+ 79	+ 97	+ 83	+ 76	+ 22	- 80	-177	-234
February	0	- 6	+ 13	+ 9	+ 1	+ 22	+ 50	+ 47	+ 39	+ 10	- 37	- 62	- 59
March	+ 17	+ 24	+ 61	+ 90	+ 55	+ 72	+ 91	+ 77	+ 15	- 73	-186	-247	-222
	WEST COMPONENT (Unit 0.1 γ)												
January	- 63	- 68	- 53	- 41	- 62	- 55	- 51	- 68	- 88	-143	-116	- 20	+106
February	- 94	-120	-113	-125	-102	- 90	- 76	- 73	- 85	- 96	- 38	+ 65	+122
March	-135	- 97	- 88	- 82	-104	- 95	- 88	-168	-202	-166	- 48	+ 86	+215
	VERTICAL COMPONENT (Unit 0.1 γ)												
January	+ 41	+ 33	+ 33	+ 33	+ 31	+ 25	+ 15	+ 1	- 9	- 15	- 61	- 79	- 89
February	+ 47	+ 55	+ 53	+ 39	+ 35	+ 33	+ 25	+ 21	+ 9	- 13	- 55	- 87	- 99
March	+ 82	+ 56	+ 40	+ 32	+ 10	+ 4	- 8	+ 16	+ 2	- 56	- 76	-124	-138

TABLE VIa. - International Disturbed Days

	NORTH COMPONENT (Unit 0.1 γ)												
January	- 44	- 34	- 70	+ 82	+ 65	+182	+227	+165	+ 80	+ 12	- 89	-187	-241
February	+134	+105	+235	+234	+137	+104	+ 86	+ 67	- 58	-203	-261	-246	-248
March	+383	+232	+364	+402	+444	+223	+ 22	+ 23	- 40	-111	-160	-386	-520
	WEST COMPONENT (Unit 0.1 γ)												
January	-216	- 87	-178	-250	-163	- 93	+ 8	- 73	-113	- 64	- 54	- 6	+164
February	-182	-316	-463	-325	-124	+ 70	+ 78	+ 30	+ 4	- 4	+ 73	+192	+309
March	-291	-246	-128	-141	-163	+ 98	-113	-146	-252	-145	- 17	+209	+329
	VERTICAL COMPONENT (Unit 0.1 γ)												
January	-162	-278	-260	-130	-124	-172	-152	-136	-100	-106	-110	-118	- 96
February	- 17	-111	-107	-177	-229	-253	-225	-165	-145	-131	- 99	- 71	- 21
March	-198	-182	-148	-186	-226	-404	-478	-396	-308	-246	-250	-210	-120

COMPONENTS OF MAGNETIC INTENSITY

TABLE IVa. - All Days

NORTH COMPONENT (Unit 0.1γ)											Range	Month and Season, 1957
Universal Time. Hour commencing												
13	14	15	16	17	18	19	20	21	22	23	γ	
-146	-113	-79	-60	-6	-8	+3	+43	+57	+38	+21	29.1	January
-91	-57	-55	-70	-38	+4	+30	+56	+33	+50	+49	19.3	February
-228	-157	-68	-32	+13	+25	+51	+87	+94	+84	+82	42.7	March
WEST COMPONENT (Unit 0.1γ)											Range	Month and Season, 1957
Universal Time. Hour commencing												
24	25	26	27	28	29	30	31	1	2	3	γ	
+247	+274	+227	+165	+157	+133	+45	-18	-70	-110	-131	40.5	January
+240	+217	+168	+119	+112	+96	+19	+13	-42	-102	-119	44.2	February
+421	+416	+333	+193	+132	+74	+13	0	-124	-128	-150	66.2	March
VERTICAL COMPONENT (Unit 0.1γ)											Range	Month and Season, 1957
Universal Time. Hour commencing												
13	14	15	16	17	18	19	20	21	22	23	γ	
-92	-29	+31	+75	+71	+96	+109	+124	+118	+57	+31	23.4	January
-52	-5	+26	+58	+80	+87	+91	+80	+60	+45	+19	17.7	February
-100	+7	+104	+169	+191	+200	+164	+141	+97	+51	+28	37.0	March

TABLE Va. - International Quiet Days

NORTH COMPONENT (Unit 0.1γ)											Range	Month and Season, 1957
Universal Time. Hour commencing												
13	14	15	16	17	18	19	20	21	22	23	γ	
-187	-134	-75	-17	+25	+48	+57	+68	+74	+53	+55	33.1	January
-52	-62	-81	-75	-37	+9	+23	+64	+56	+63	+55	14.5	February
-205	-146	-103	-51	-13	+62	+87	+139	+154	+138	+156	40.3	March
WEST COMPONENT (Unit 0.1γ)											Range	Month and Season, 1957
Universal Time. Hour commencing												
24	25	26	27	28	29	30	31	1	2	3	γ	
+206	+203	+160	+98	+74	+60	+26	-9	-19	-31	-44	34.9	January
+182	+159	+111	+84	+99	+99	+78	+43	+17	-19	-30	30.7	February
+296	+281	+208	+78	+56	+68	+46	+22	-6	-23	-51	49.8	March
VERTICAL COMPONENT (Unit 0.1γ)											Range	Month and Season, 1957
Universal Time. Hour commencing												
13	14	15	16	17	18	19	20	21	22	23	γ	
-79	-31	+3	+49	+33	+27	+29	+27	+1	-7	-1	13.8	January
-103	-65	-33	-23	-13	+15	+23	+37	+31	+29	+29	15.8	February
-124	-56	+6	+72	+82	+54	+36	+26	+20	+22	+14	22.0	March

TABLE VIa. - International Disturbed Days

NORTH COMPONENT (Unit 0.1γ)											Range	Month and Season, 1957
Universal Time. Hour commencing												
13	14	15	16	17	18	19	20	21	22	23	γ	
-147	-114	-57	-62	+13	+16	+32	+165	+111	-5	-100	46.8	January
-174	-75	-29	-74	+28	+45	+19	+80	+41	-1	+52	49.6	February
-315	-207	-44	-152	+63	-71	+10	-1	-94	-8	-68	96.4	March
WEST COMPONENT (Unit 0.1γ)											Range	Month and Season, 1957
Universal Time. Hour commencing												
24	25	26	27	28	29	30	31	1	2	3	γ	
+331	+366	+337	+221	+209	+203	+69	-19	-95	-224	-276	64.2	January
+407	+305	+237	+188	+91	+167	-136	-94	-169	-203	-135	87.0	February
+528	+656	+513	+156	+264	-4	-8	+14	-433	-292	-390	108.9	March
VERTICAL COMPONENT (Unit 0.1γ)											Range	Month and Season, 1957
Universal Time. Hour commencing												
13	14	15	16	17	18	19	20	21	22	23	γ	
-72	-4	+98	+168	+206	+302	+296	+364	+430	+142	+16	70.8	January
+89	+169	+209	+215	+223	+187	+227	+177	+133	+87	+39	48.0	February
+16	+330	+546	+486	+428	+482	+388	+324	+244	+86	+22	102.4	March

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

Month 1957	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	-0.07	-0.6	+0.6	+0.36	+ 3.4	-3.4	-0.56	- 4.4	+ 5.4
February	+0.07	+0.7	-0.4	+0.30	+ 5.0	-2.0	+1.30	- 2.4	+ 4.8
March	-0.21	-0.7	+0.1	+1.02	+17.0	-7.8	-1.66	-45.2	+12.8

TABLE VIIIa. - MEAN MONTHLY VALUES OF GEOMAGNETIC ELEMENTS

Month 1957	Declination West	Inclination	Horizontal Intensity	North Intensity	West Intensity	Vertical Intensity	Total Intensity
	o /	o /	c.g.s.	c.g.s.	c.g.s.	c.g.s.	c.g.s.
January	8 33.8	66 37.4	.18755	.18546	.02793	.43389	.47269
February	8 32.8	66 37.4	.18757	.18549	.02788	.43393	.47273
March	8 32.1	66 37.8	.18753	.18545	.02783	.43399	.47277

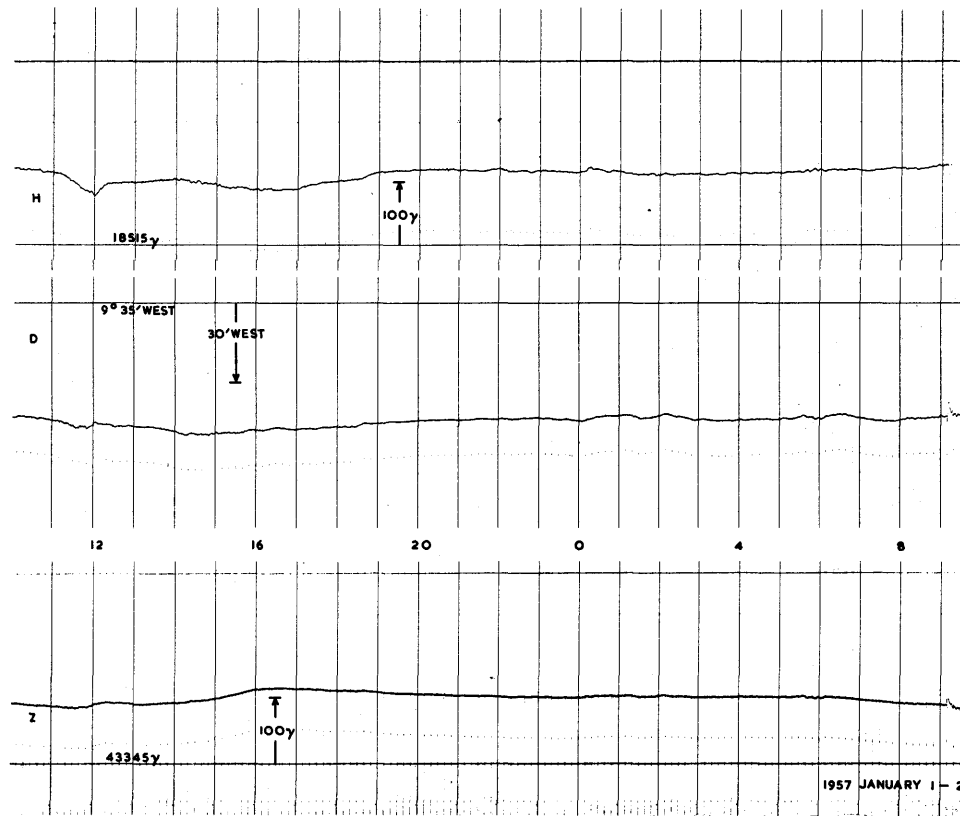
1957.1. 8 32.9 66 37.0

MAGNETOGRAMS

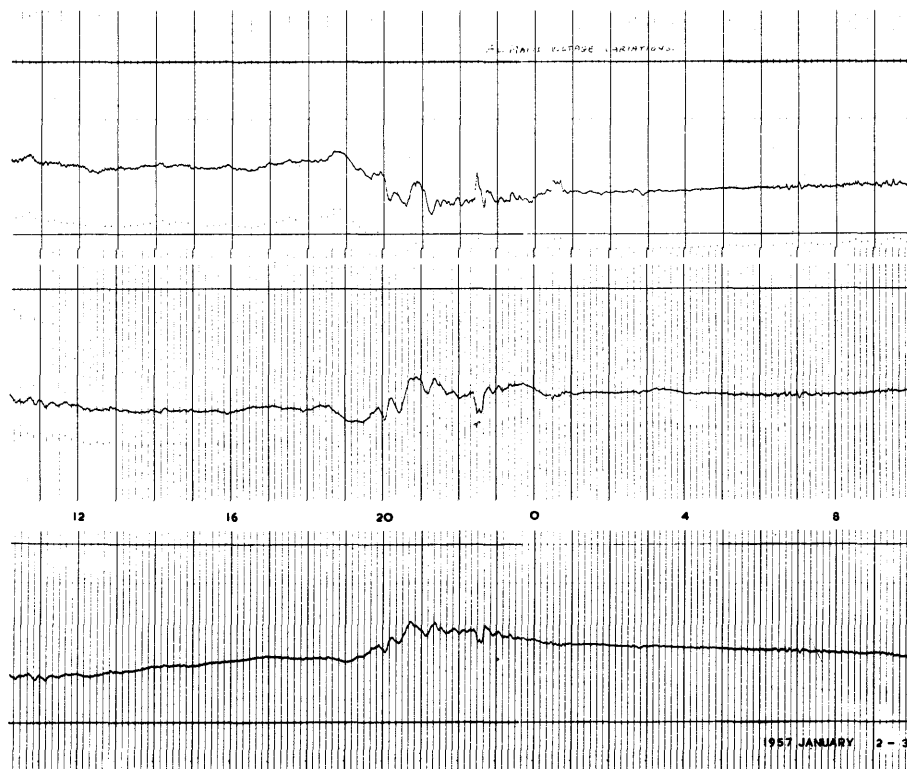
HARTLAND

1957

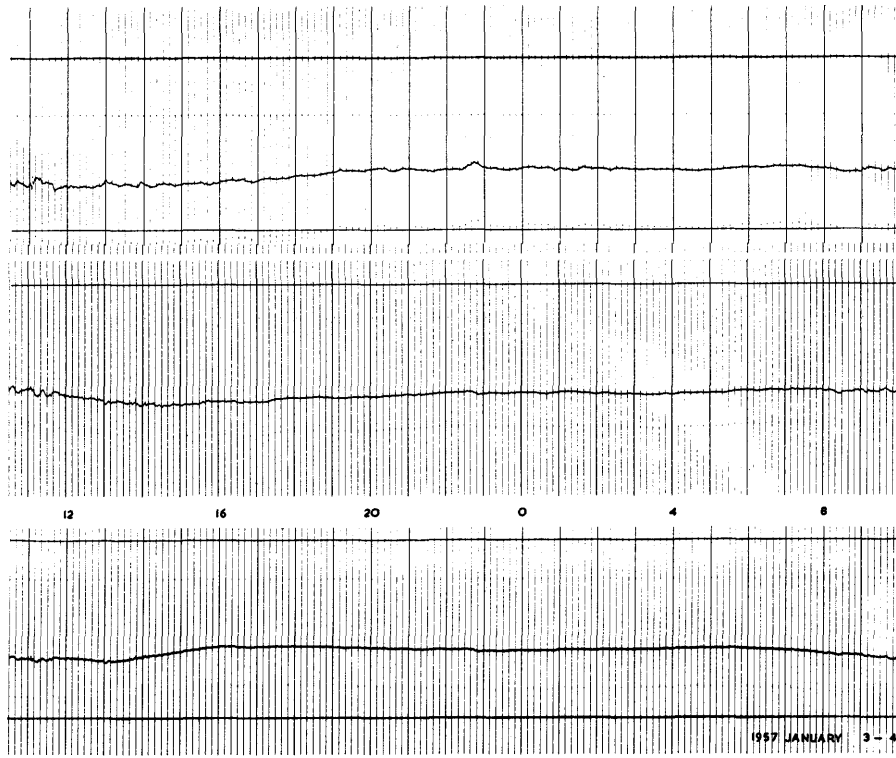
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JANUARY 1-2

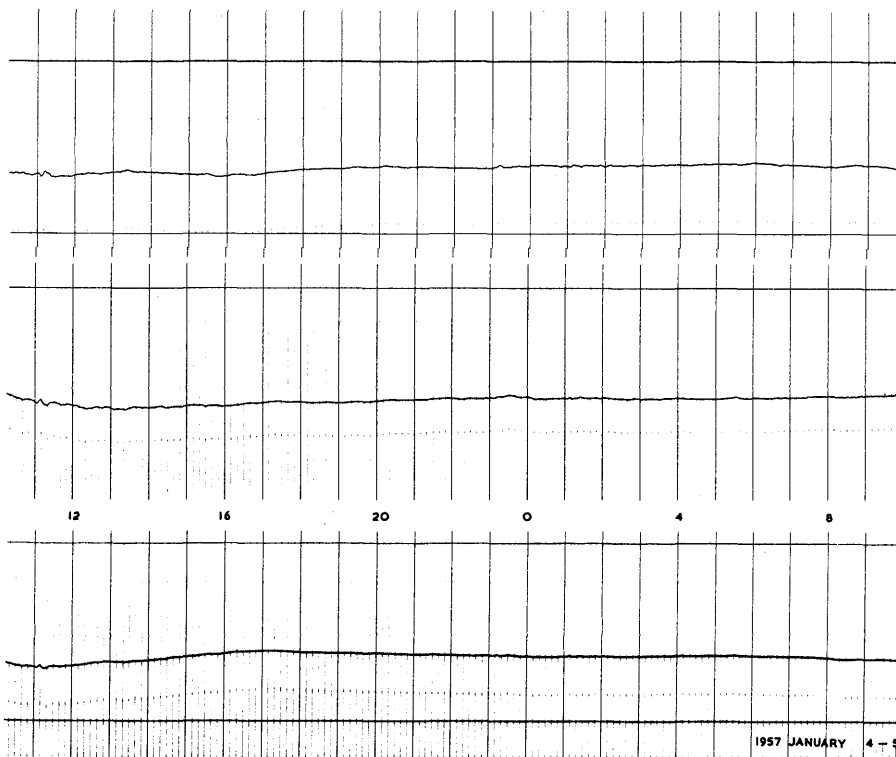


JANUARY 2-3



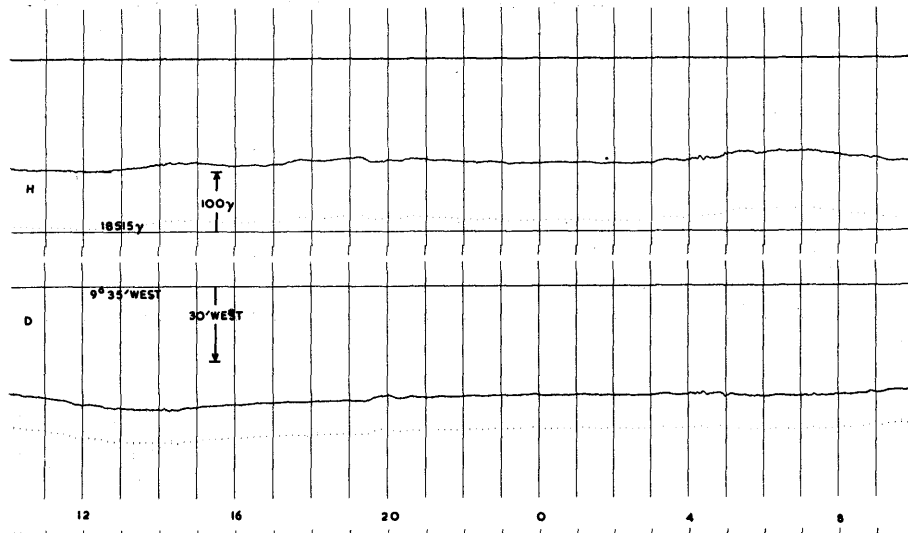
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JANUARY 3-4

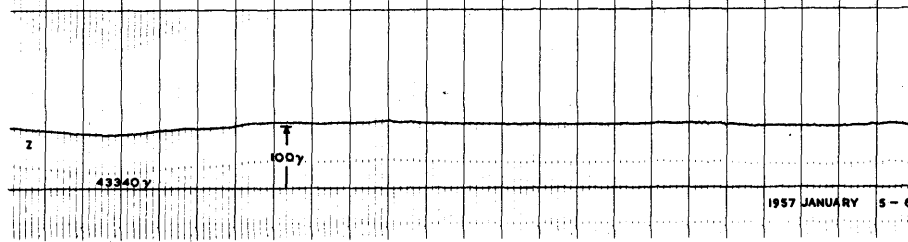


JANUARY 4-5

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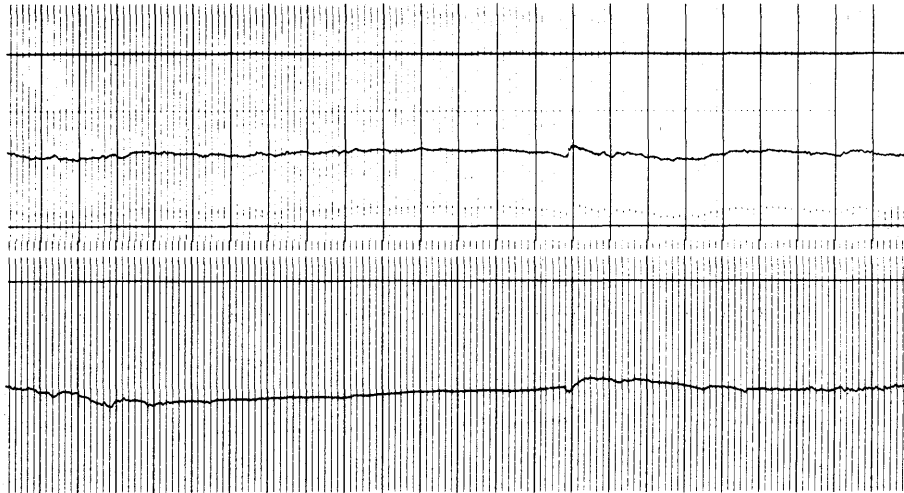


JANUARY 5-6

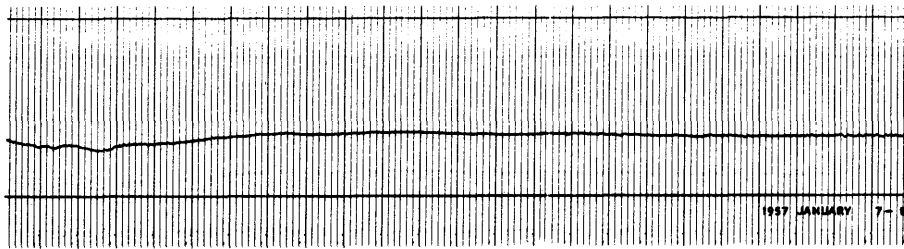


JANUARY 6-7

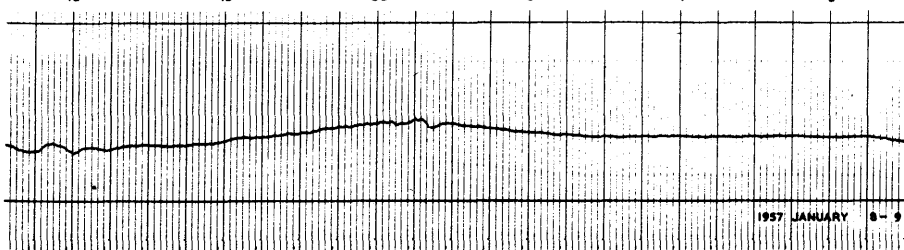
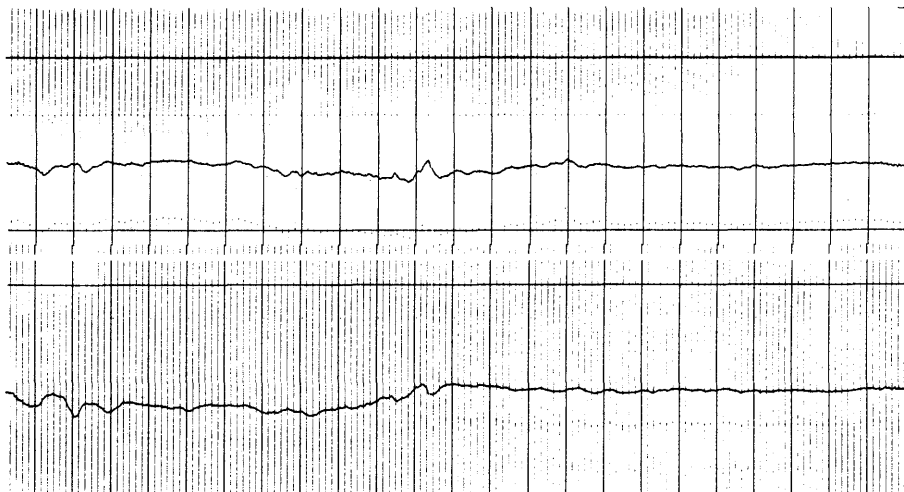




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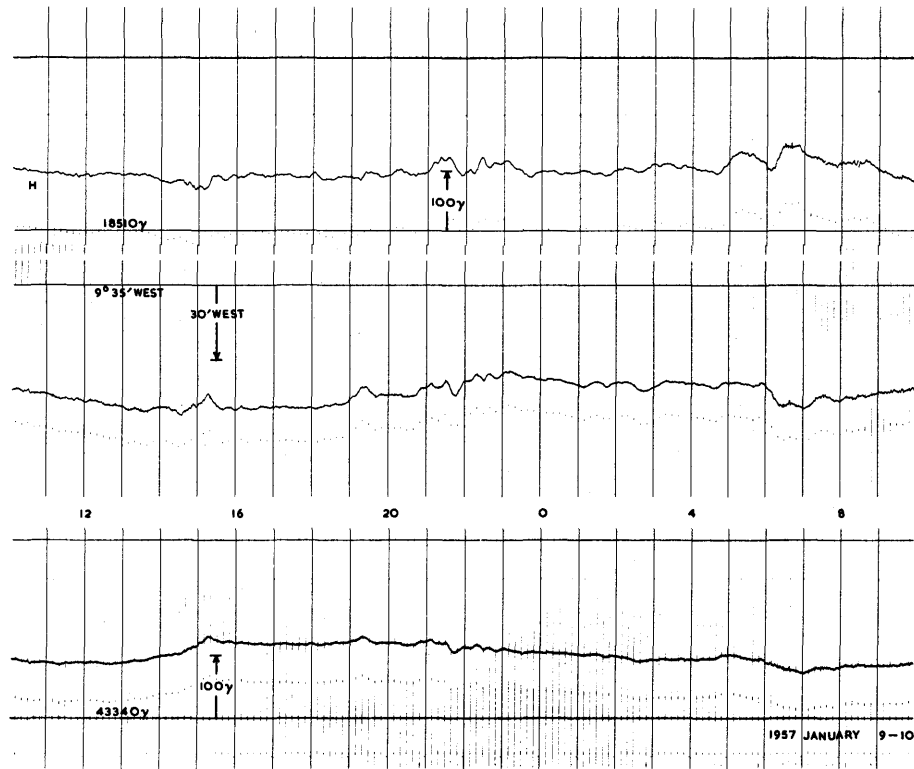


JANUARY 7-8

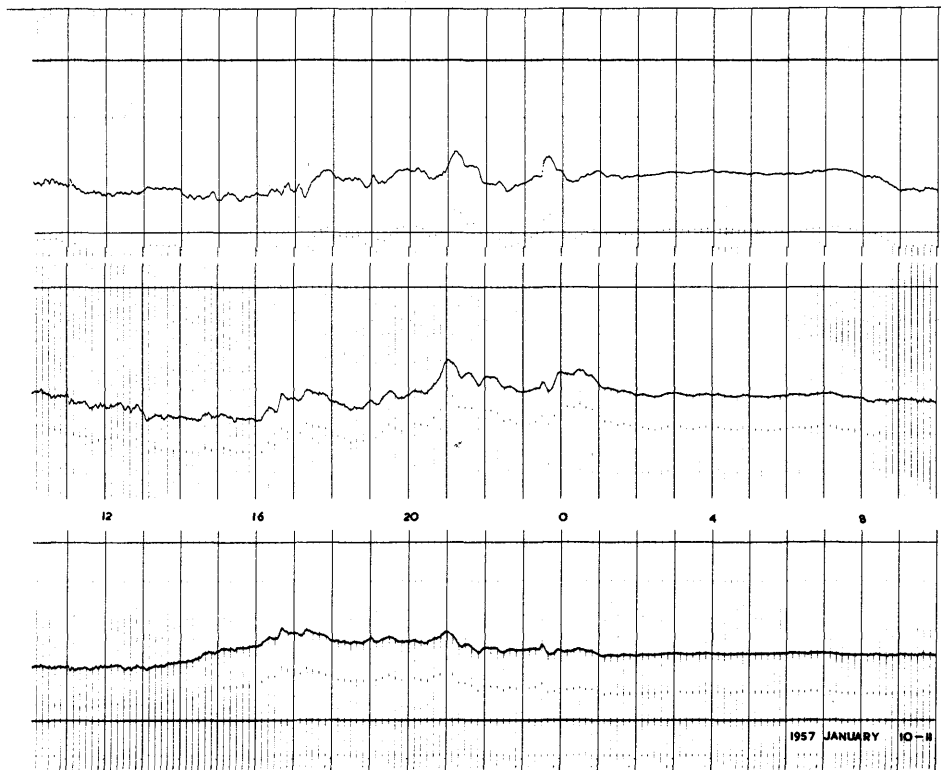


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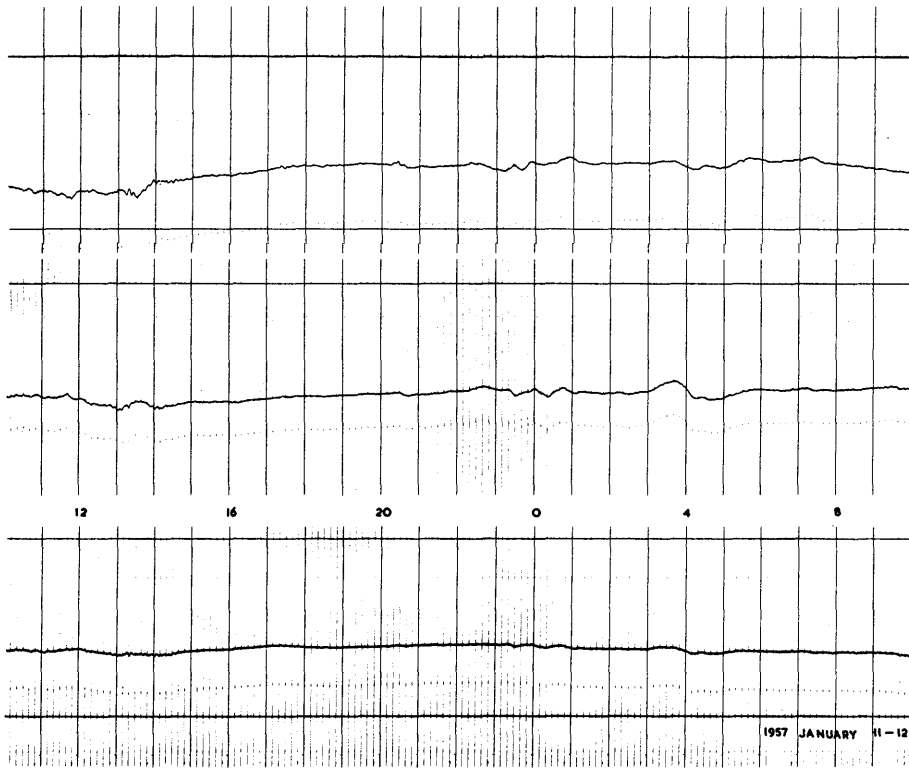
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JANUARY 9-10



JANUARY 10-11



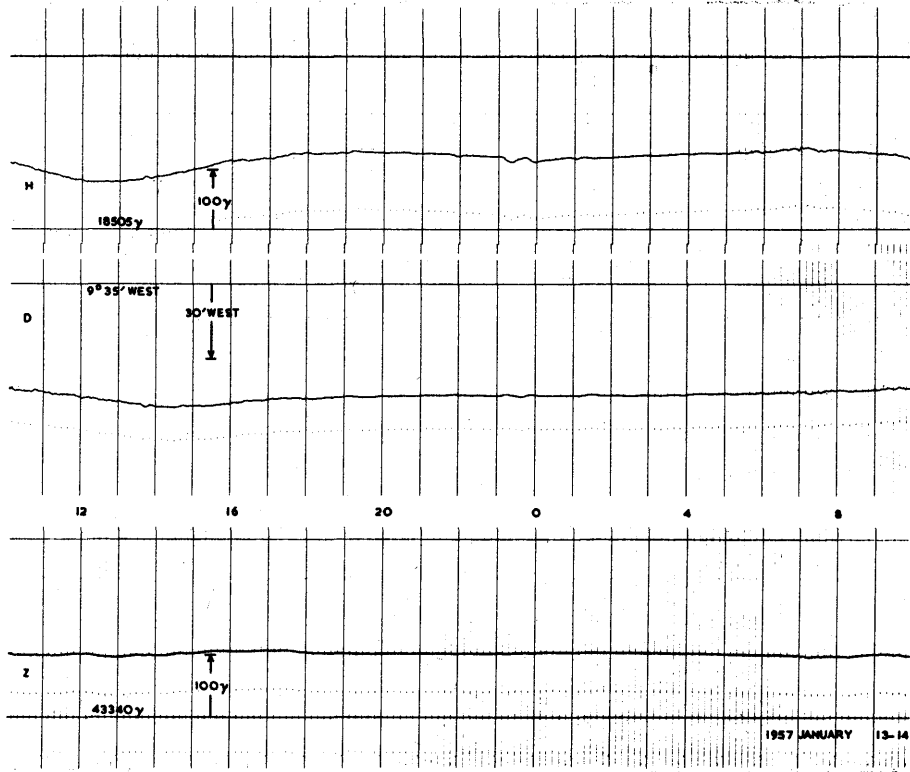
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JANUARY 11-12

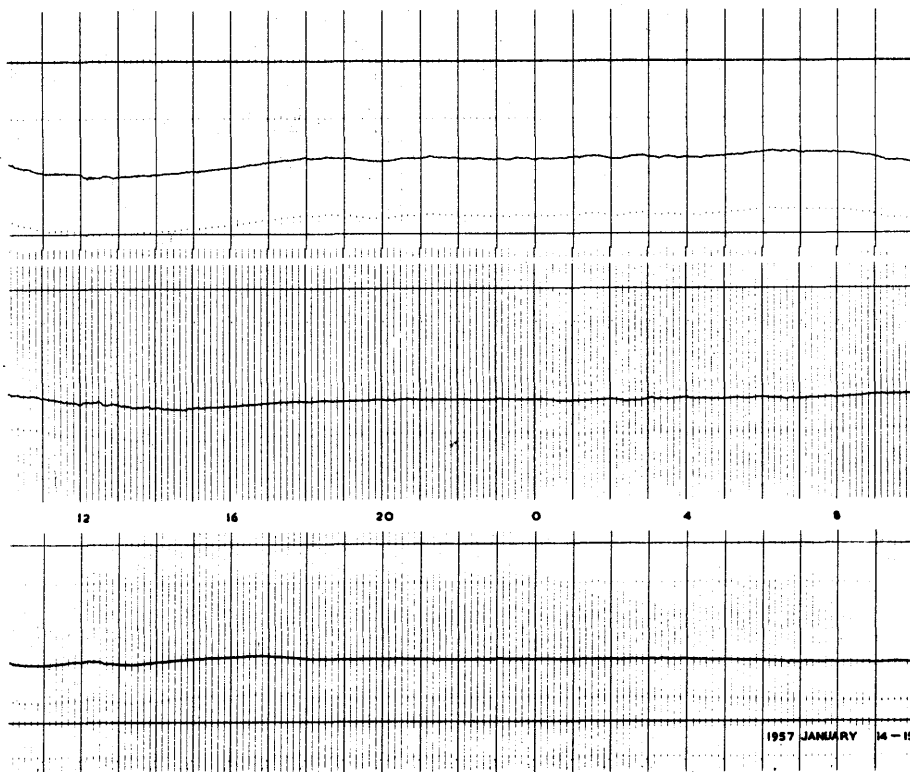


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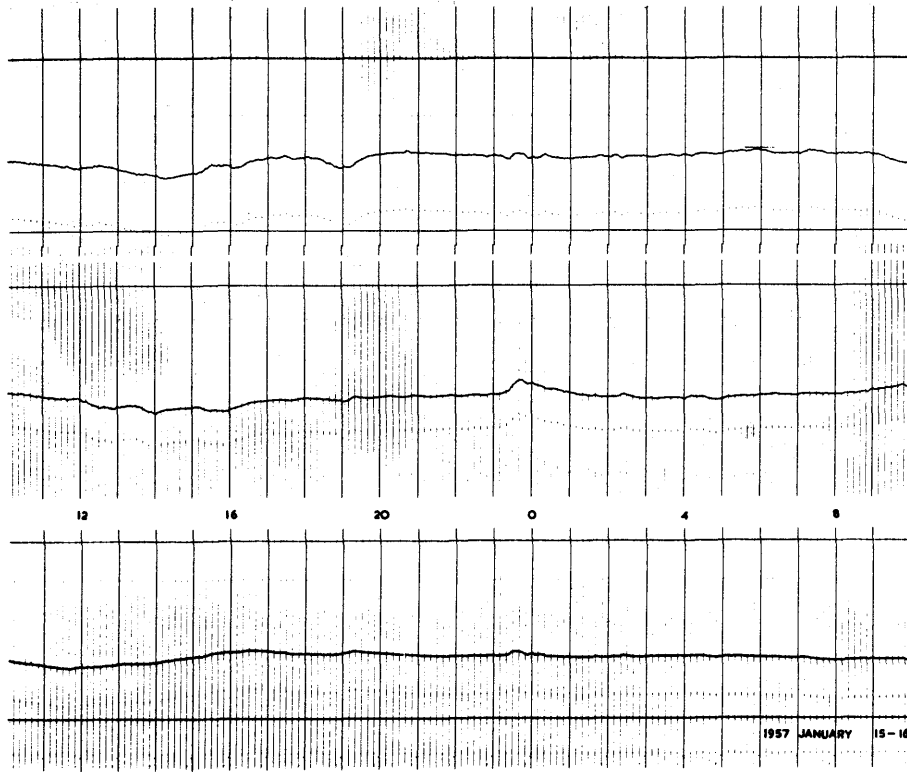
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JANUARY 13-14

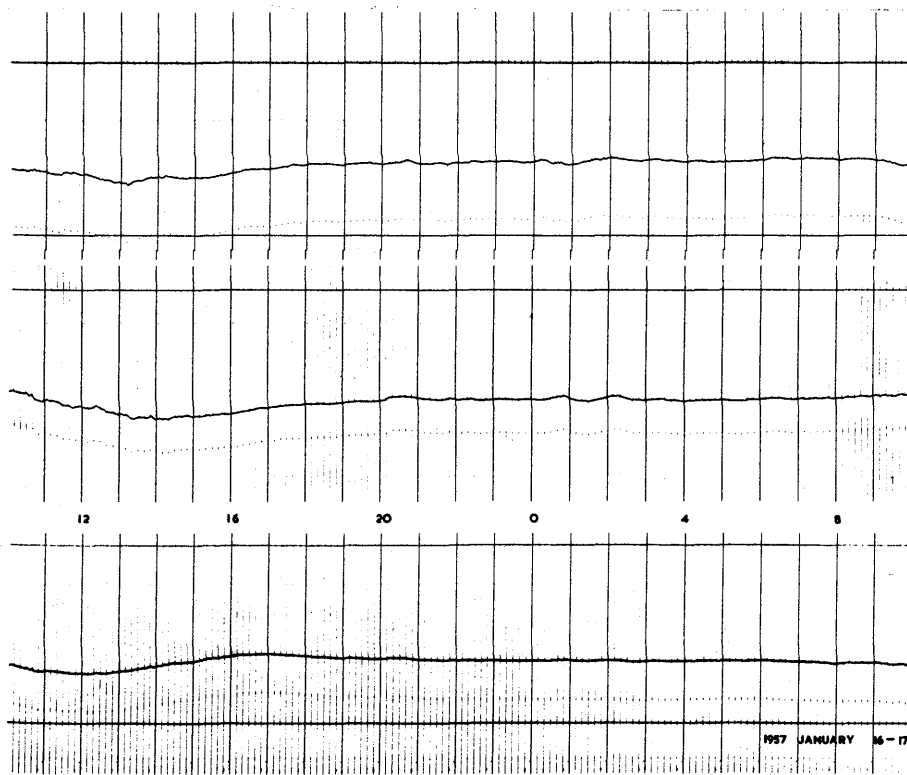


JANUARY 14-15



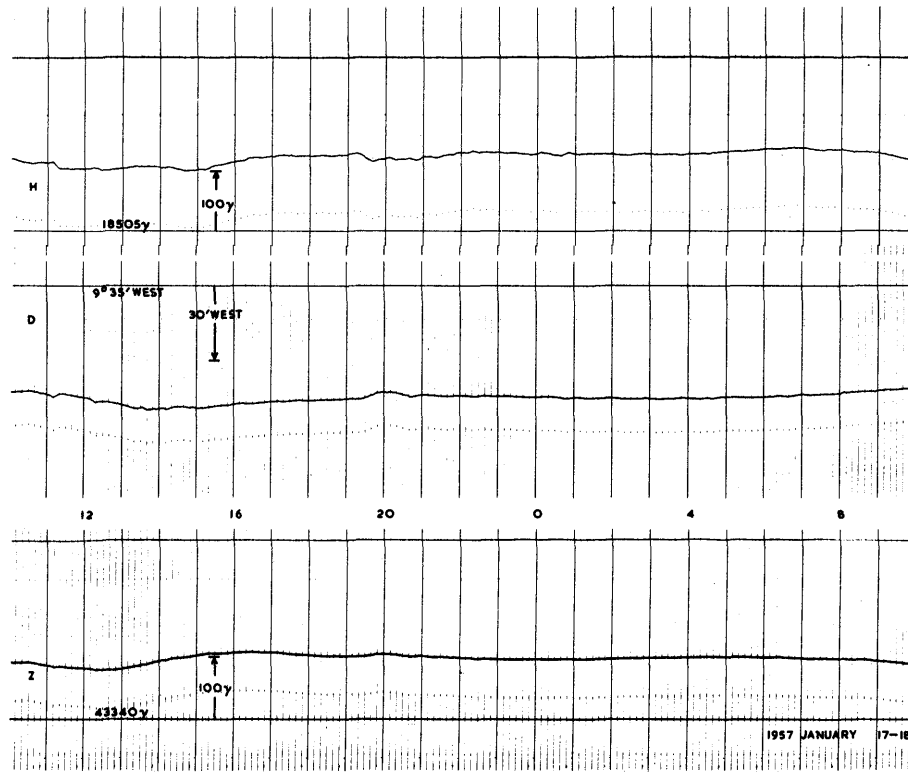
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JANUARY 15-16

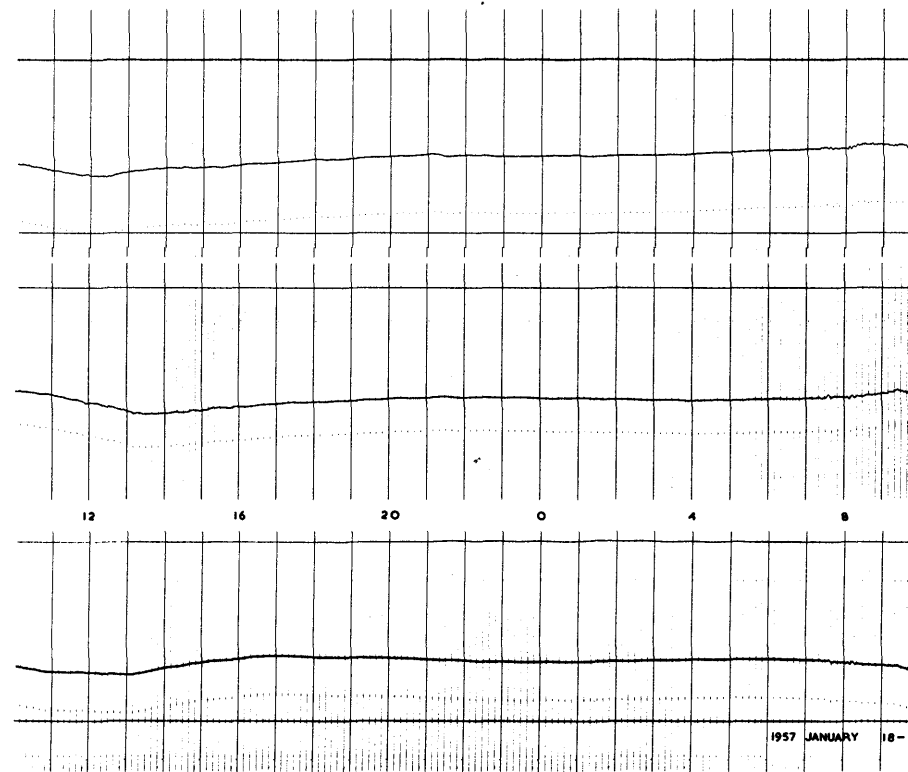


JANUARY 16-17

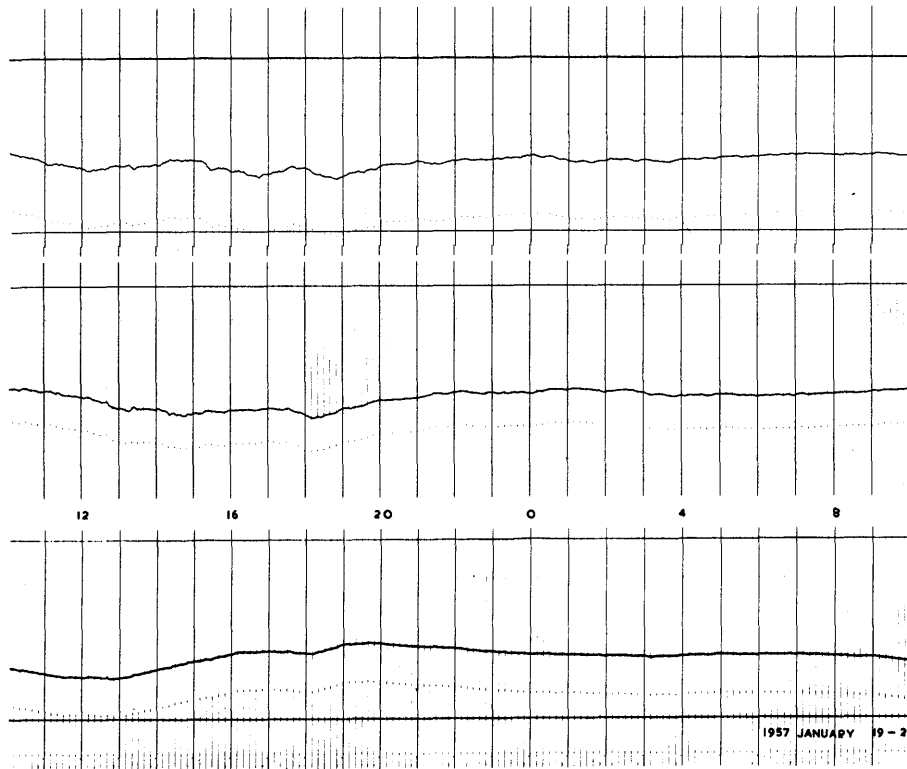
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JANUARY 17-18

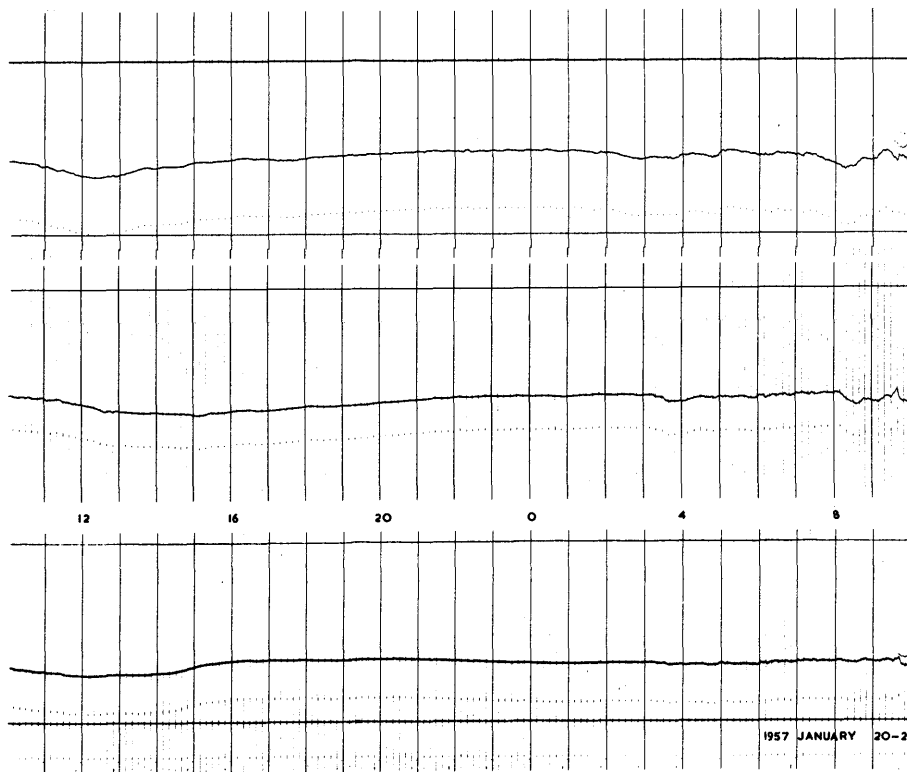


JANUARY 18-19



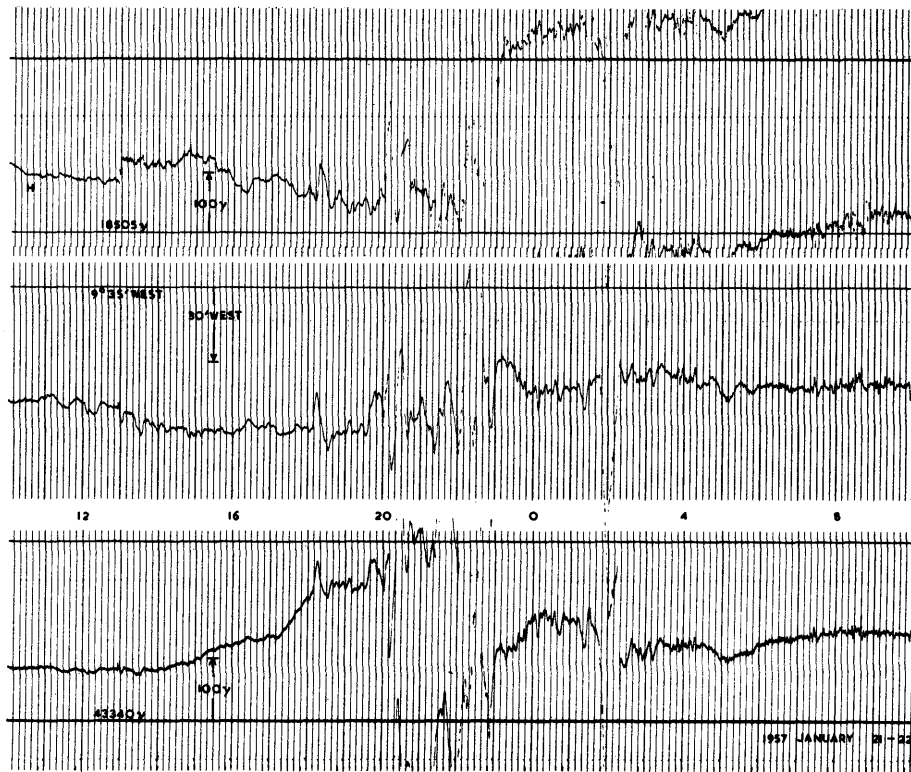
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JANUARY 19-20

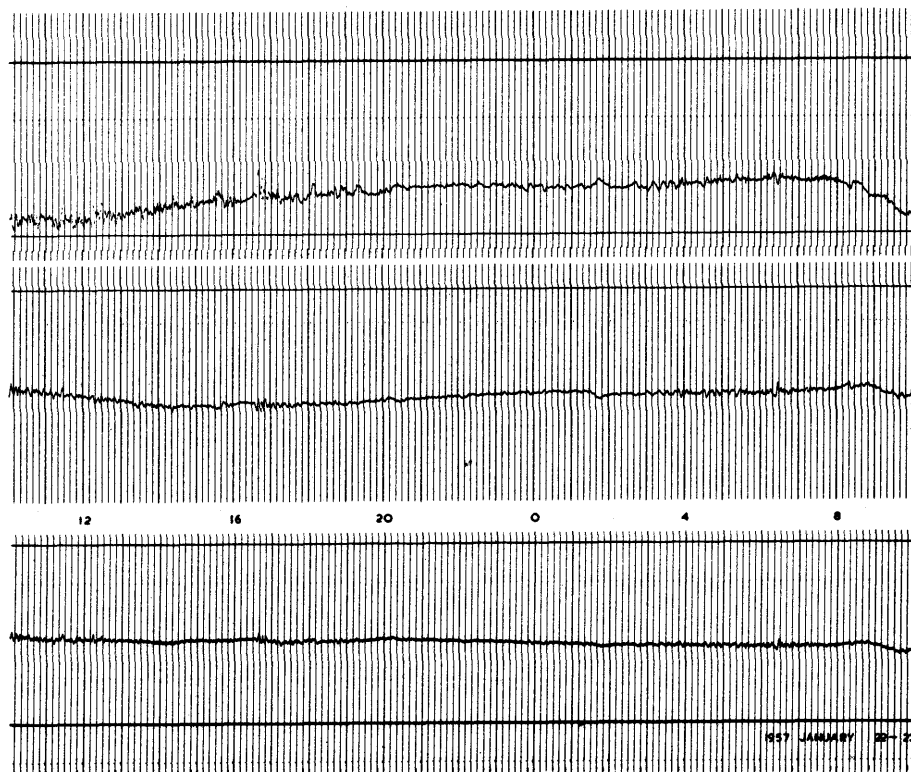


JANUARY 20-21

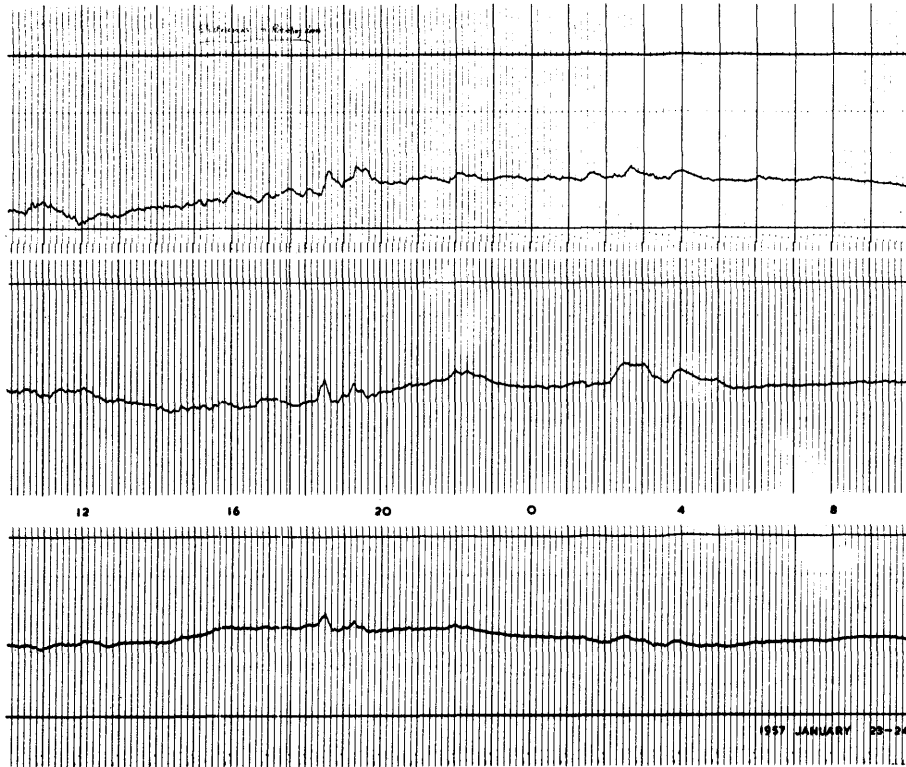
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JANUARY 21-22

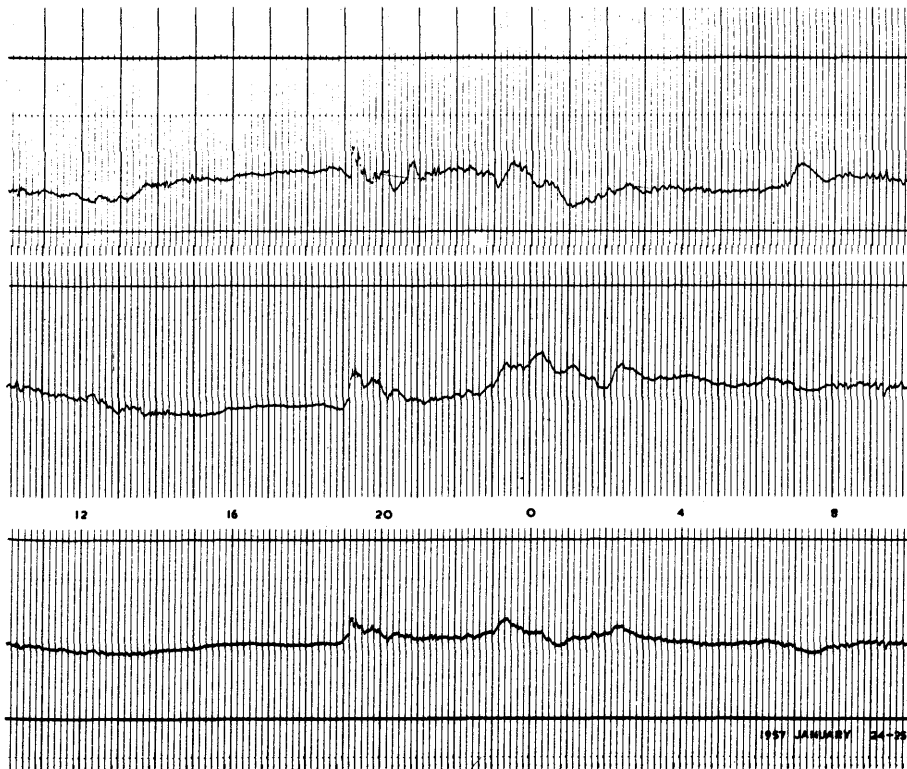


JANUARY 22-23



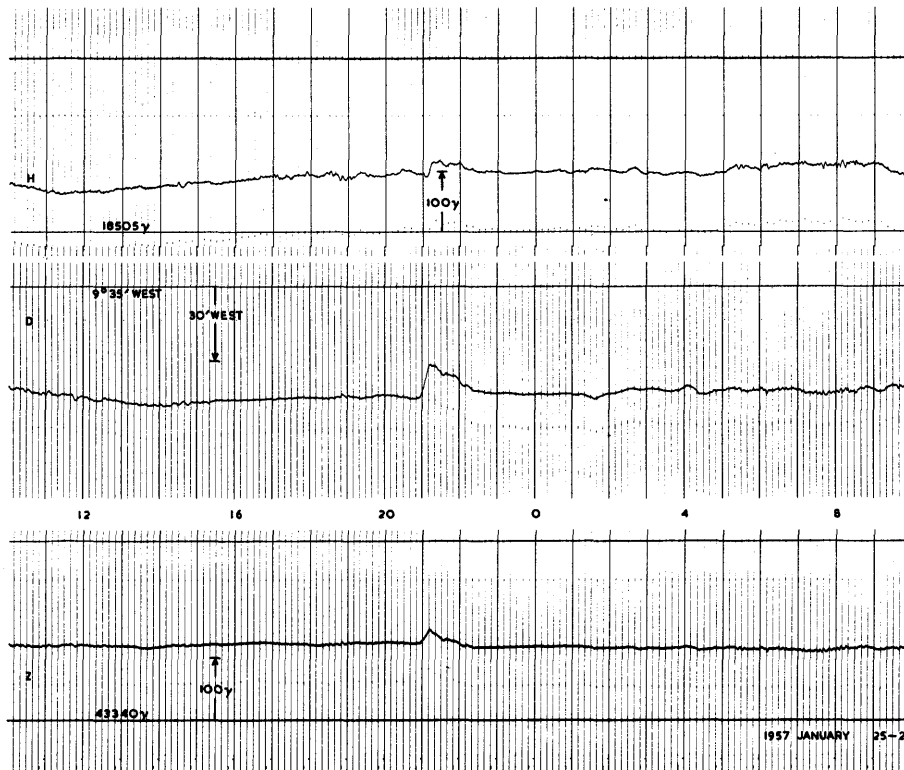
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JANUARY 23-24



JANUARY 24-25

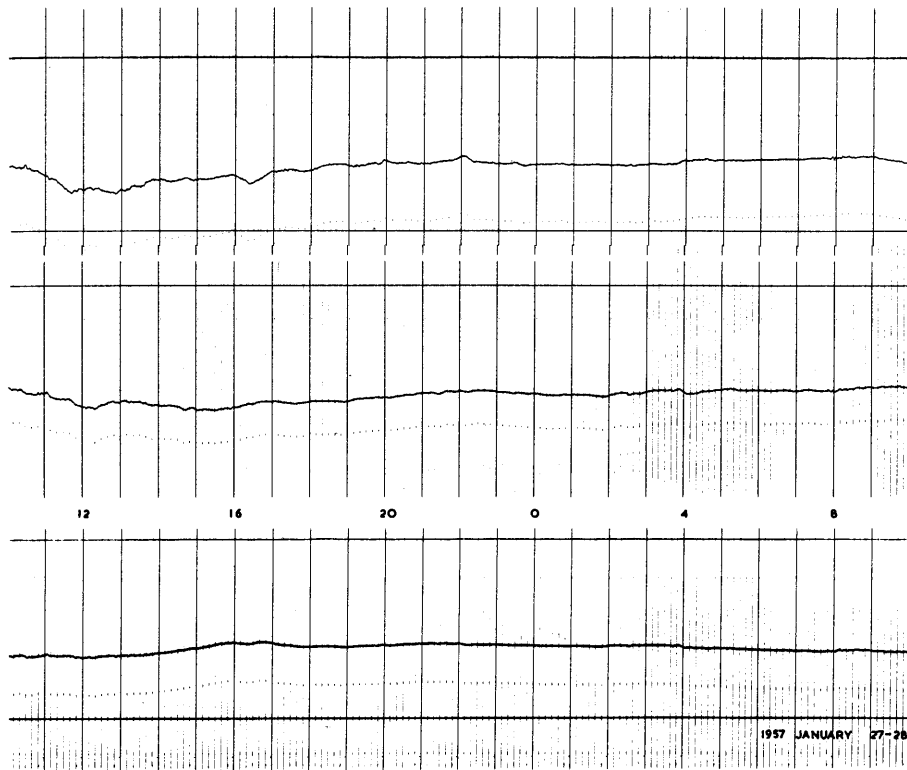
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JANUARY 25-26

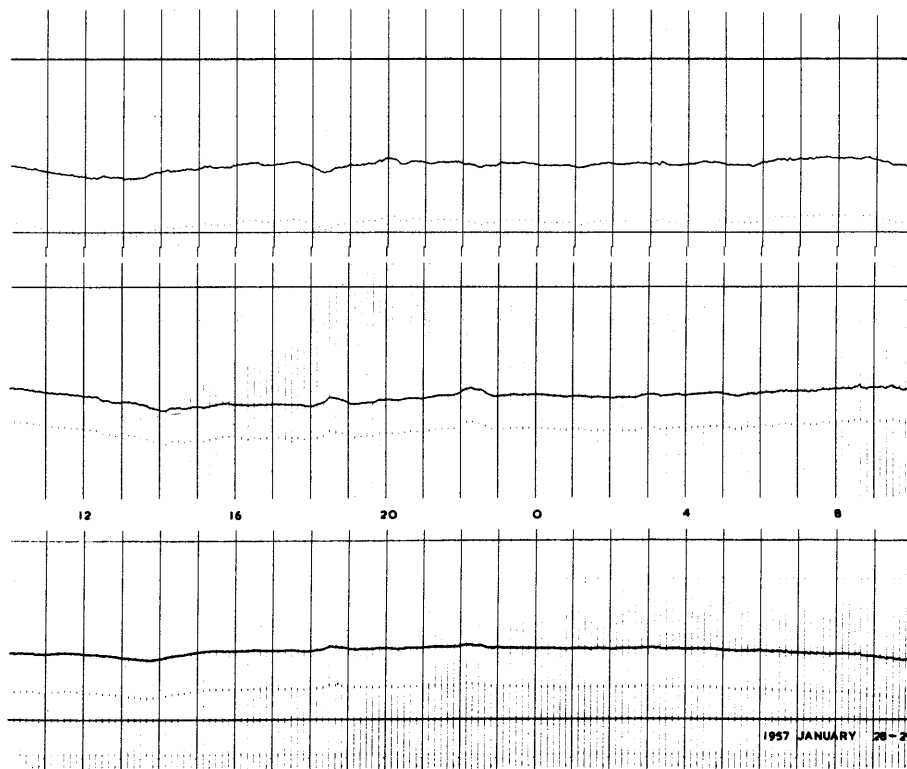


JANUARY 26-27



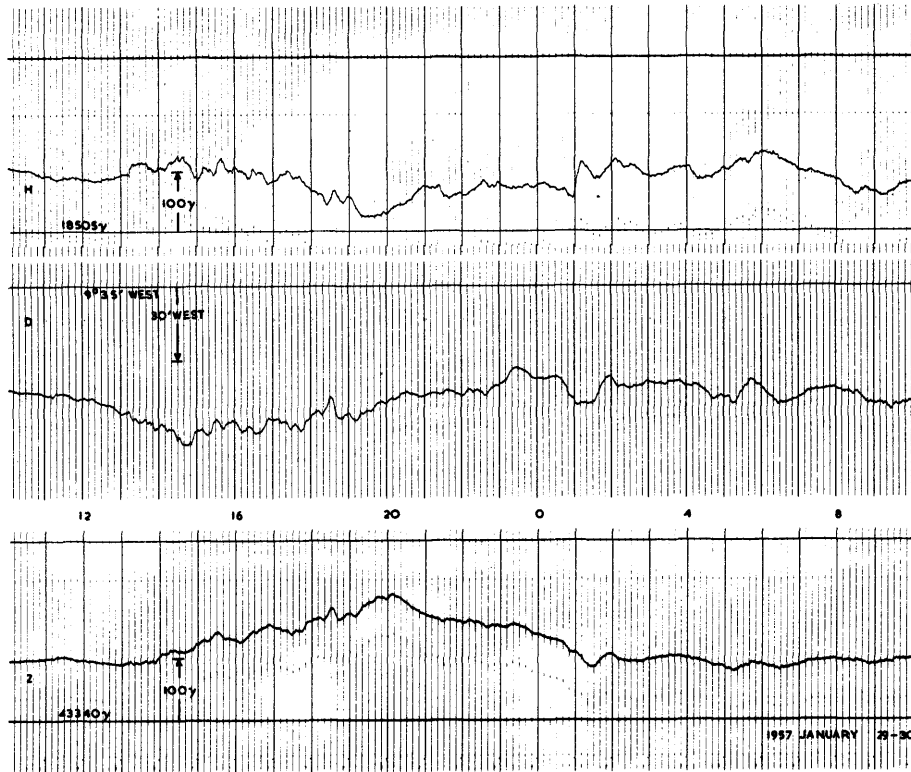
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JANUARY 27-28



JANUARY 28-29

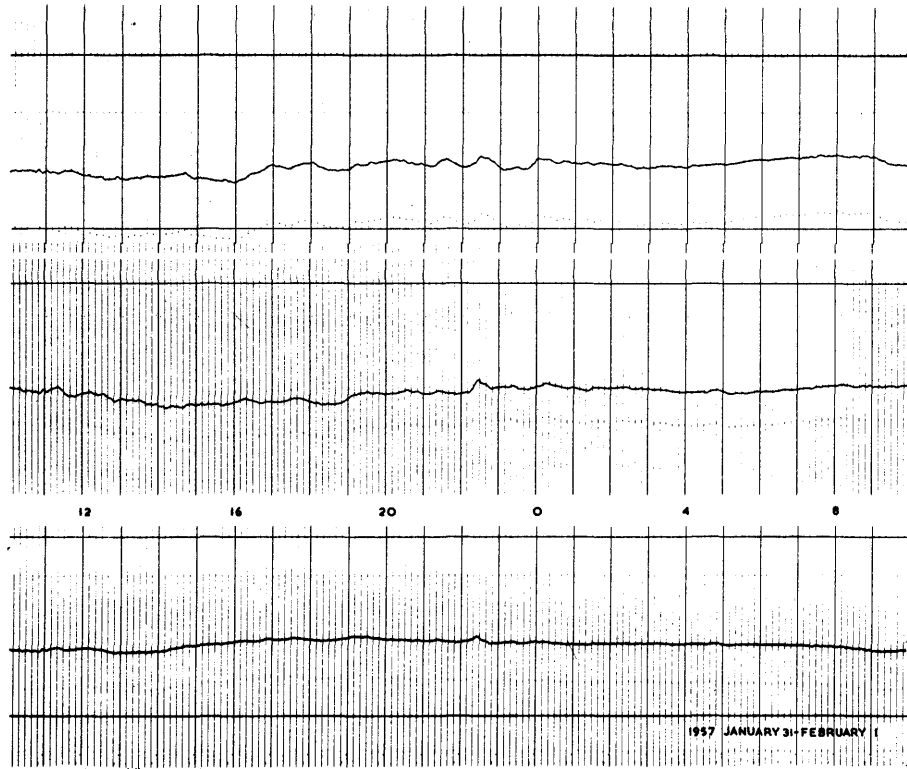
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JANUARY 29-30

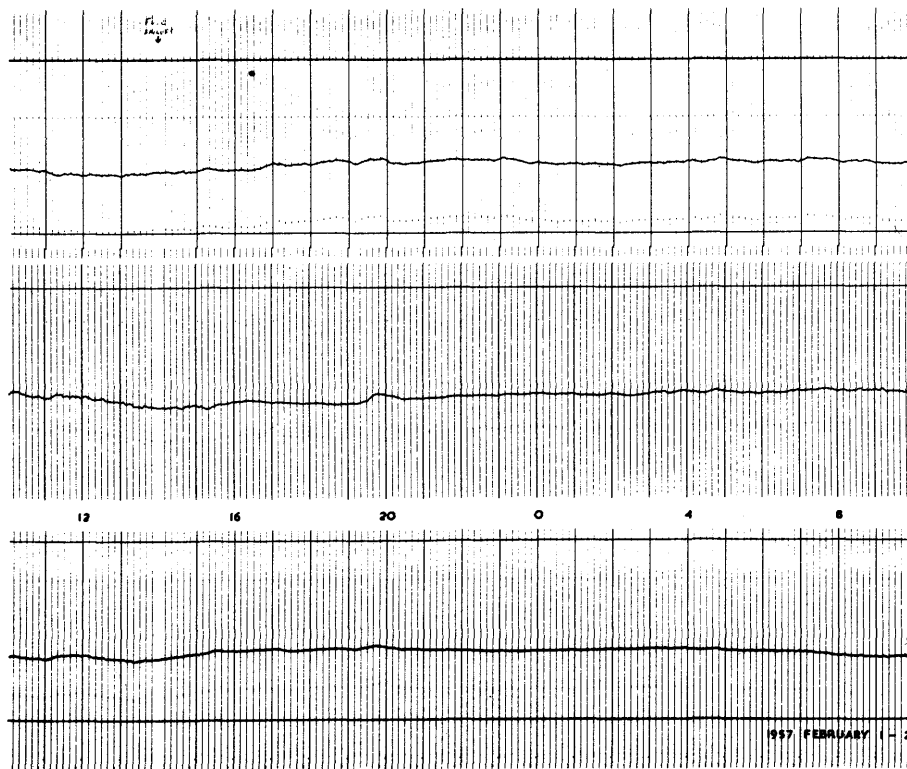


JANUARY 30-31



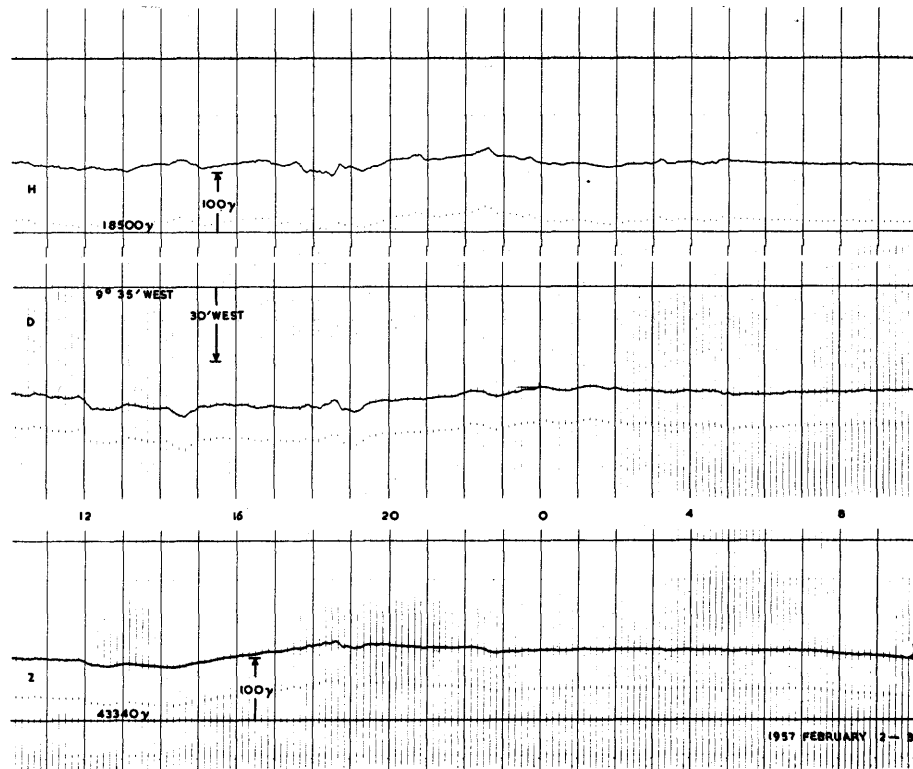
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JAN. 31- FEB. 1

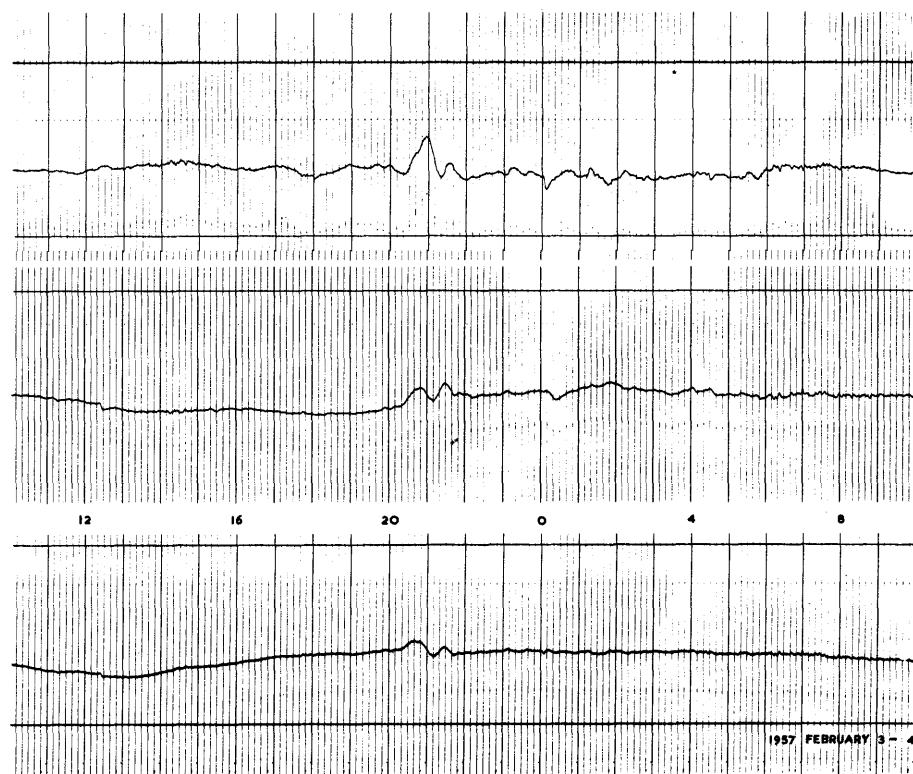


FEBRUARY 1-2

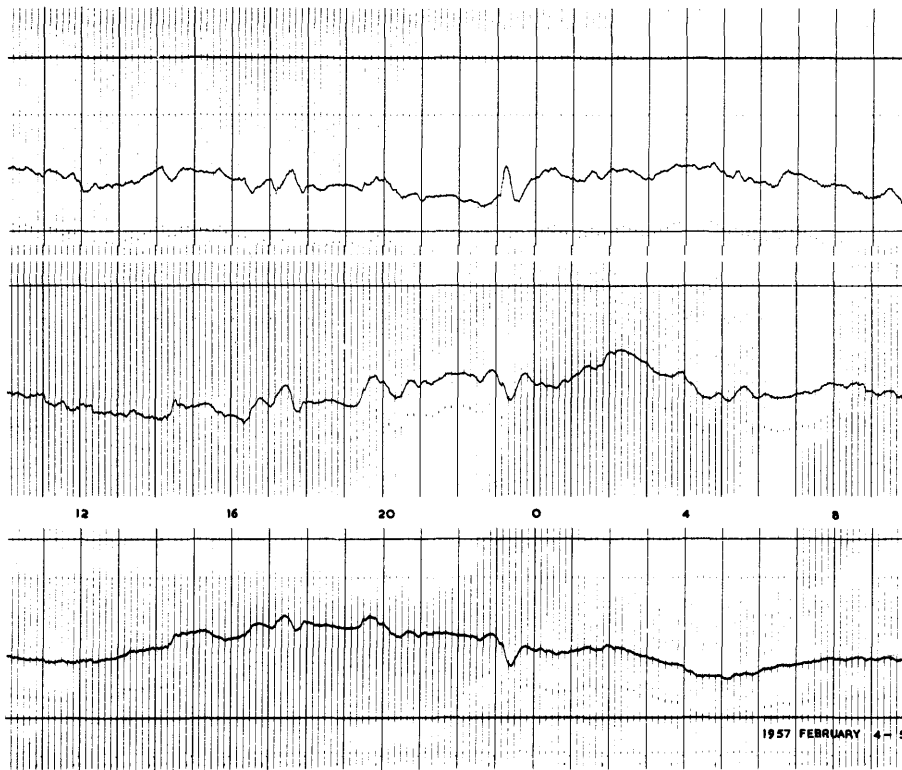
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FEBRUARY 2-3

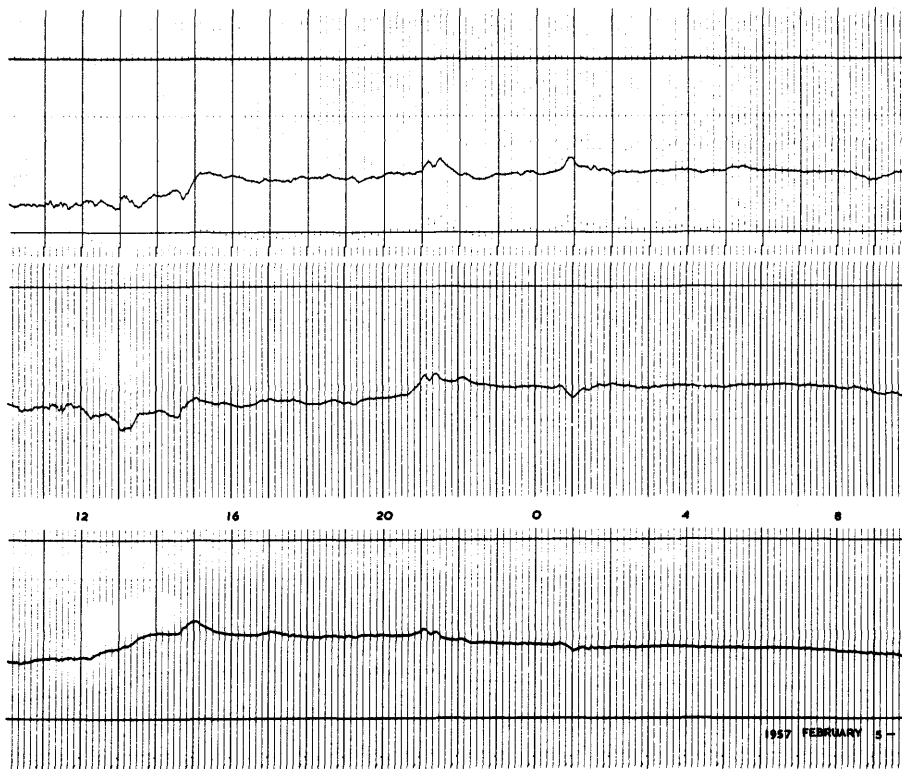


FEBRUARY 3-4



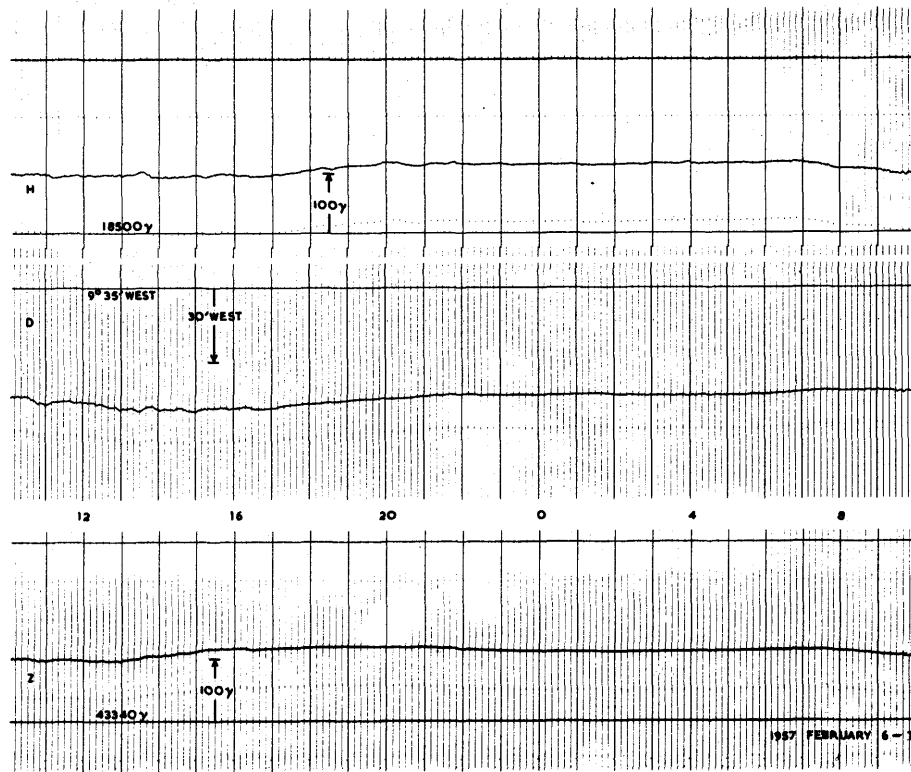
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FEBRUARY 4-5

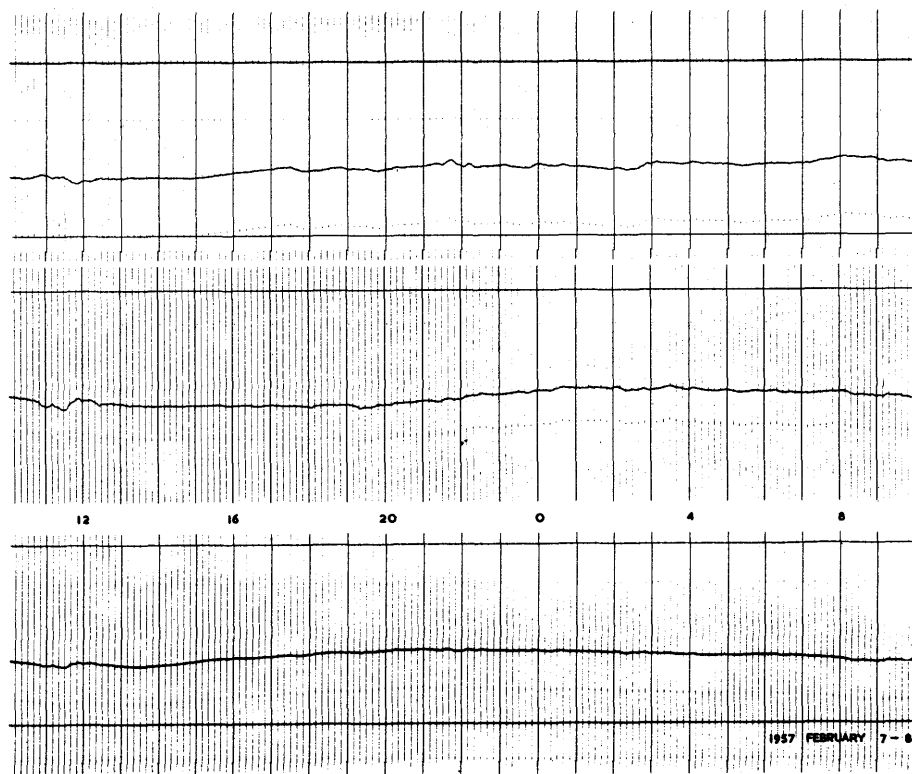


FEBRUARY 5-6

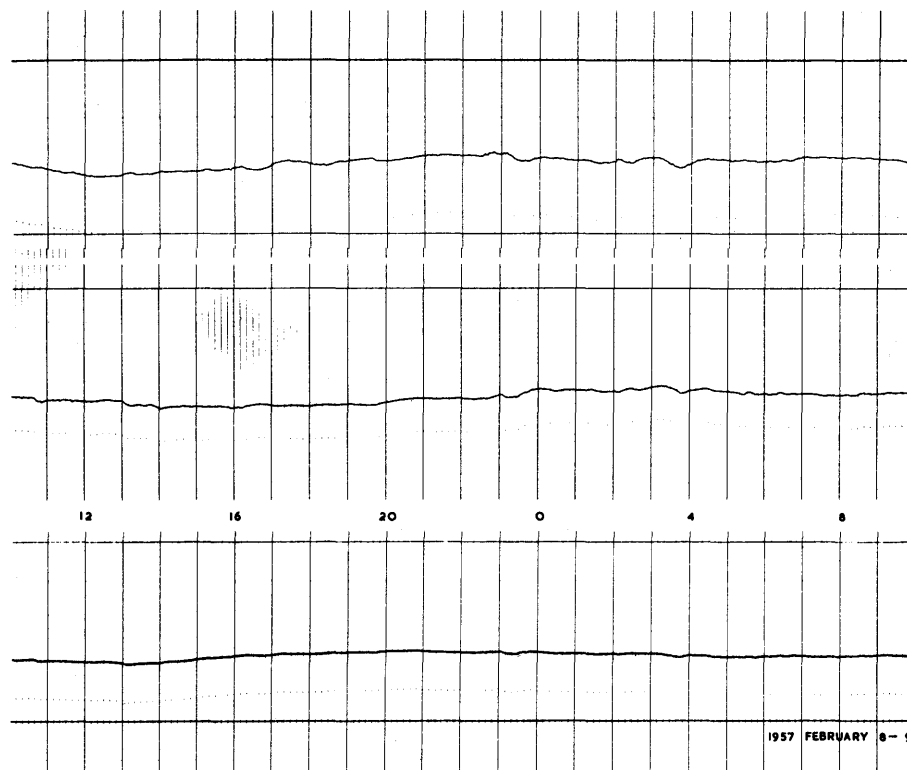
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FEBRUARY 6-7



FEBRUARY 7-8



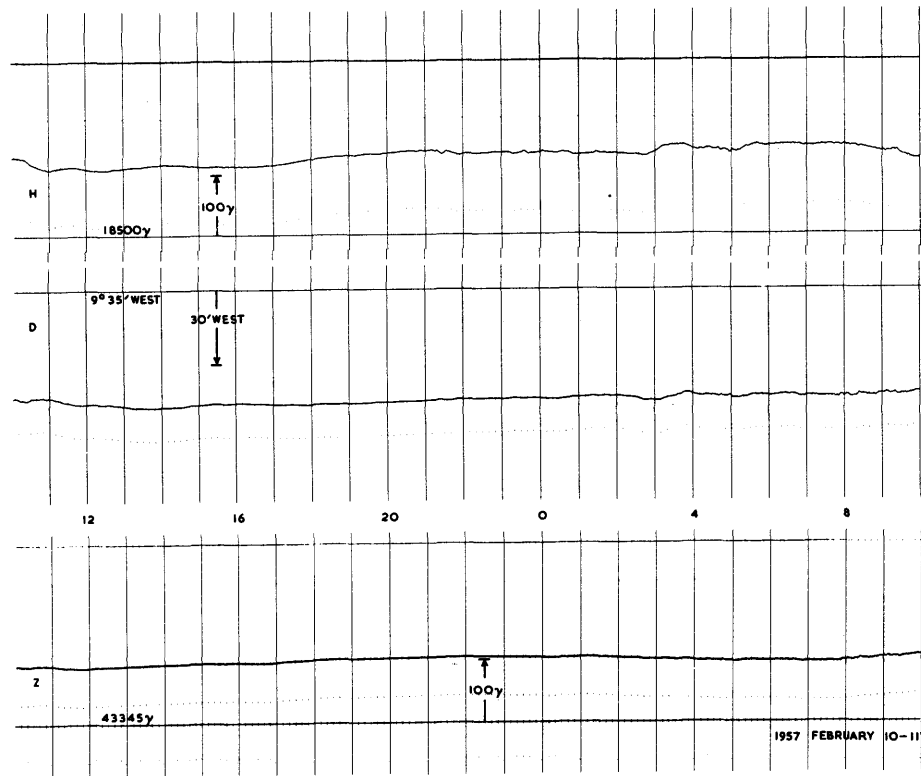
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FEBRUARY 8-9

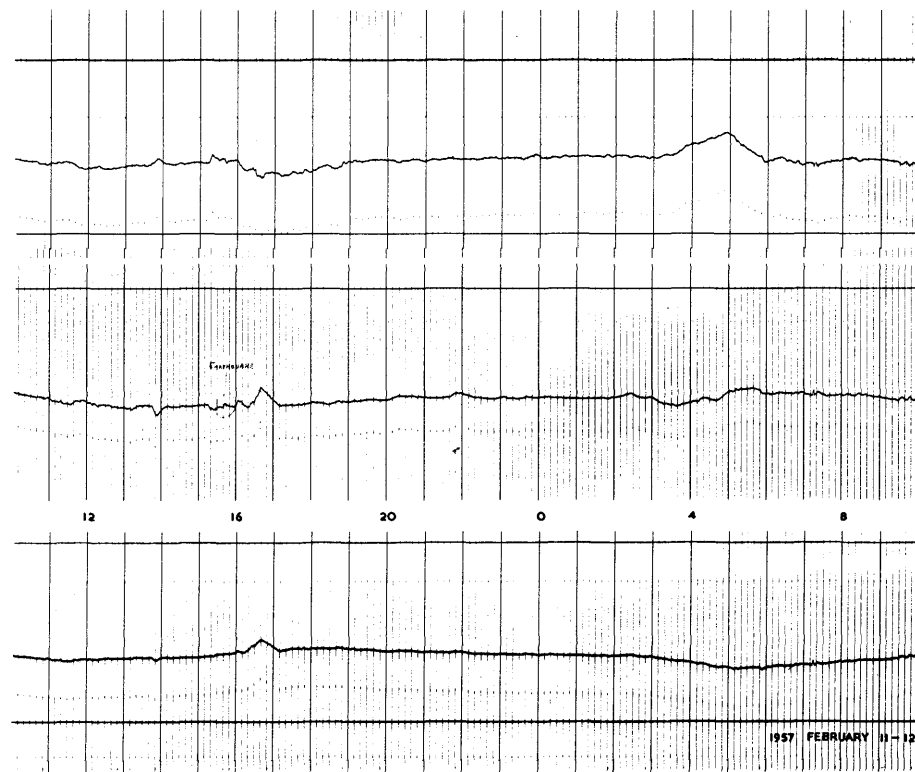


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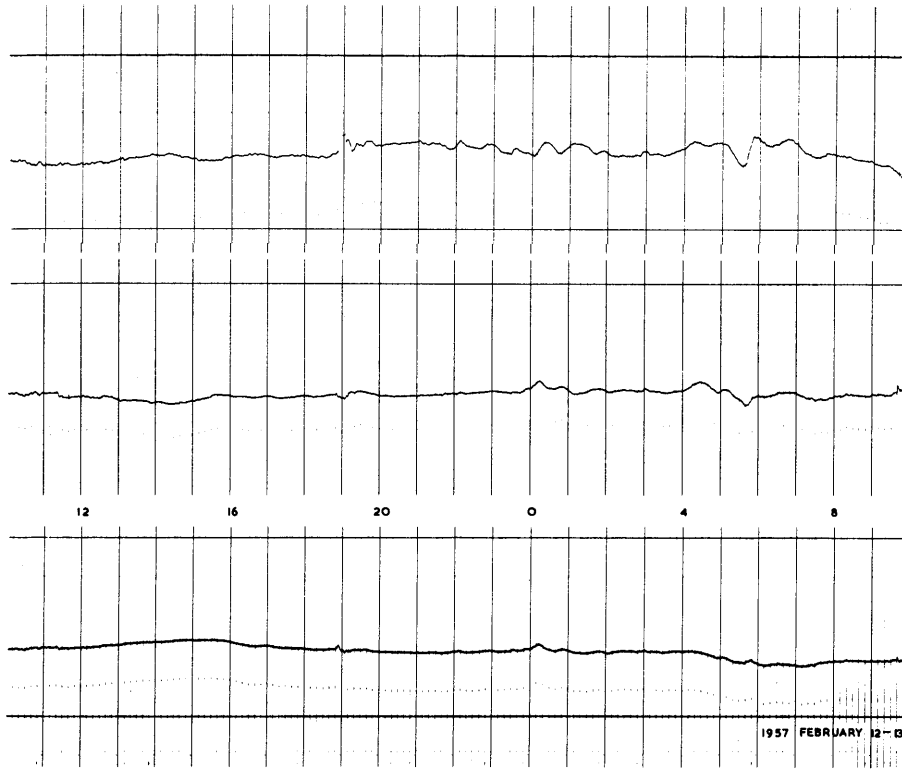
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FEBRUARY 10-11

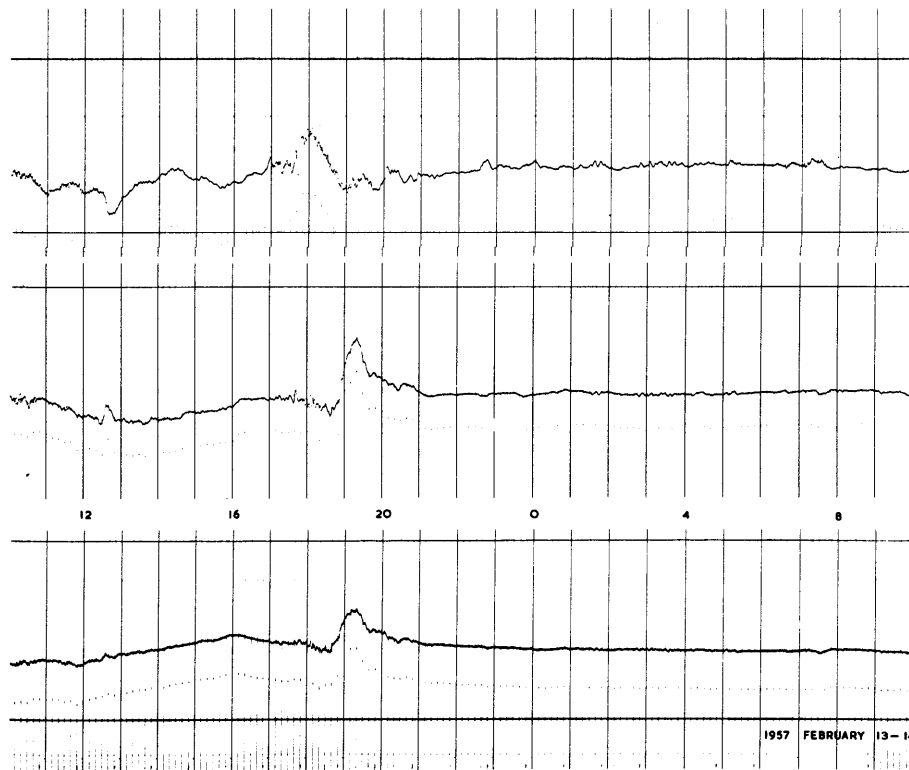


FEBRUARY 11-12



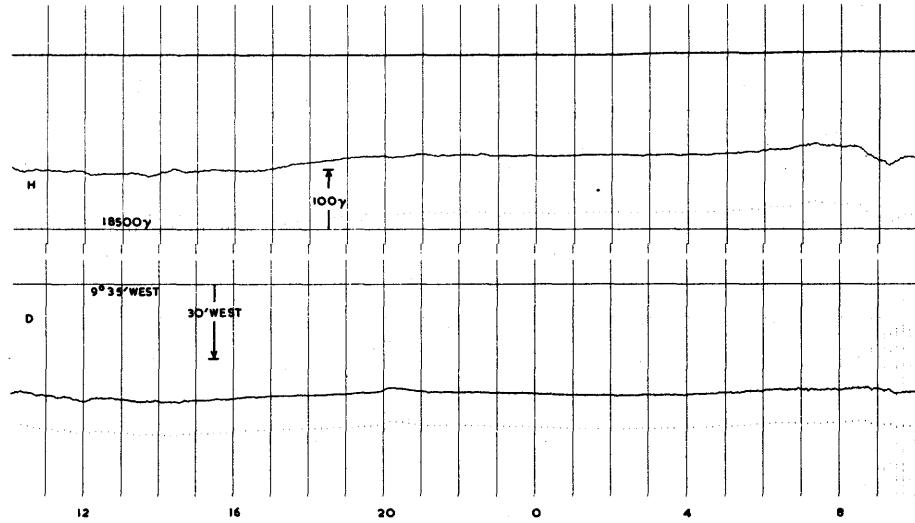
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FEBRUARY 12-13

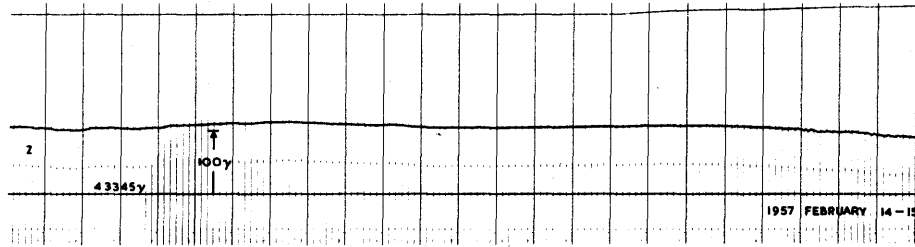


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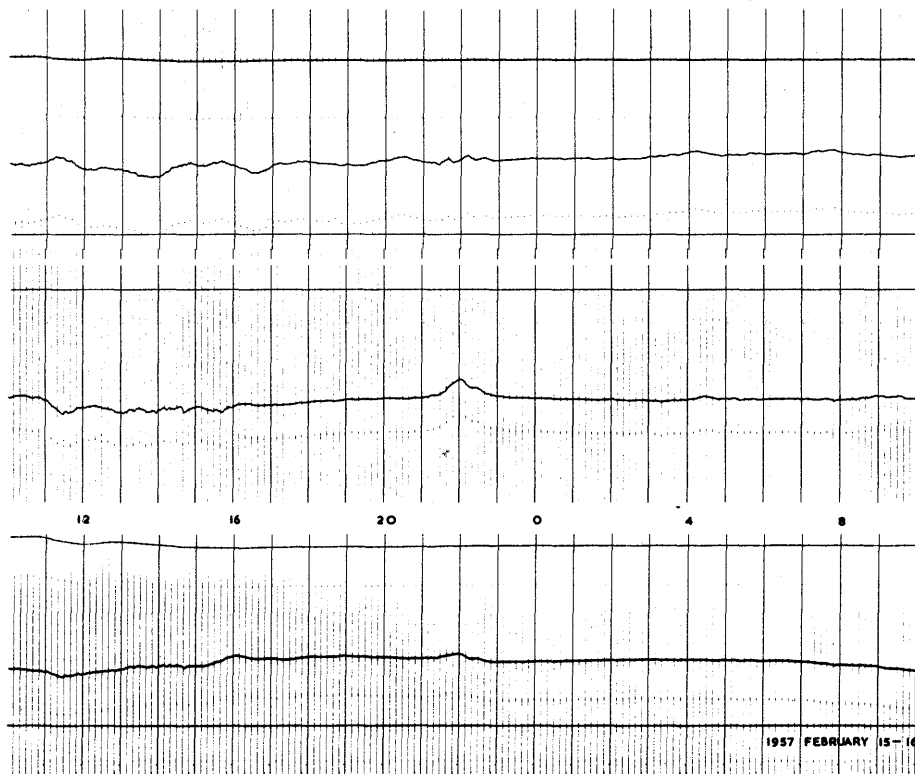
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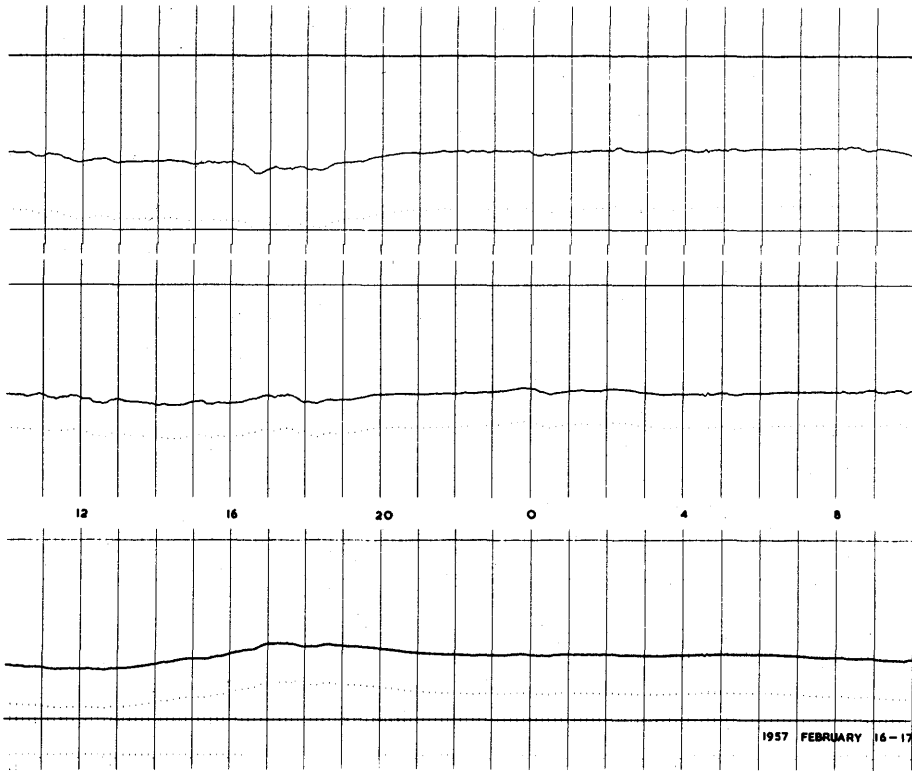


FEBRUARY 14-15



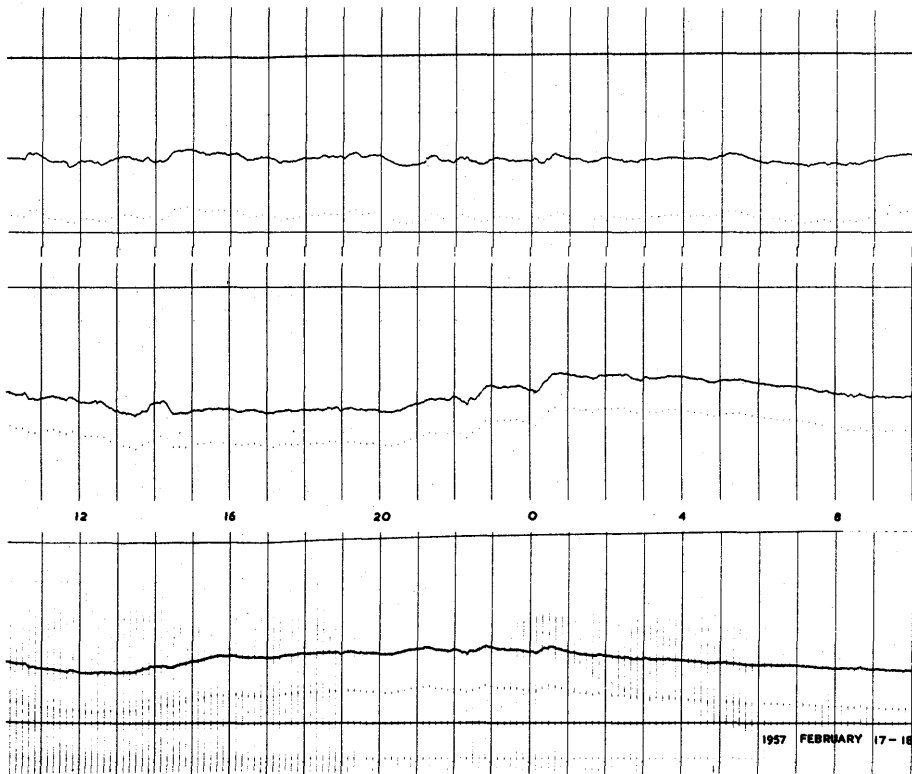
FEBRUARY 15-16





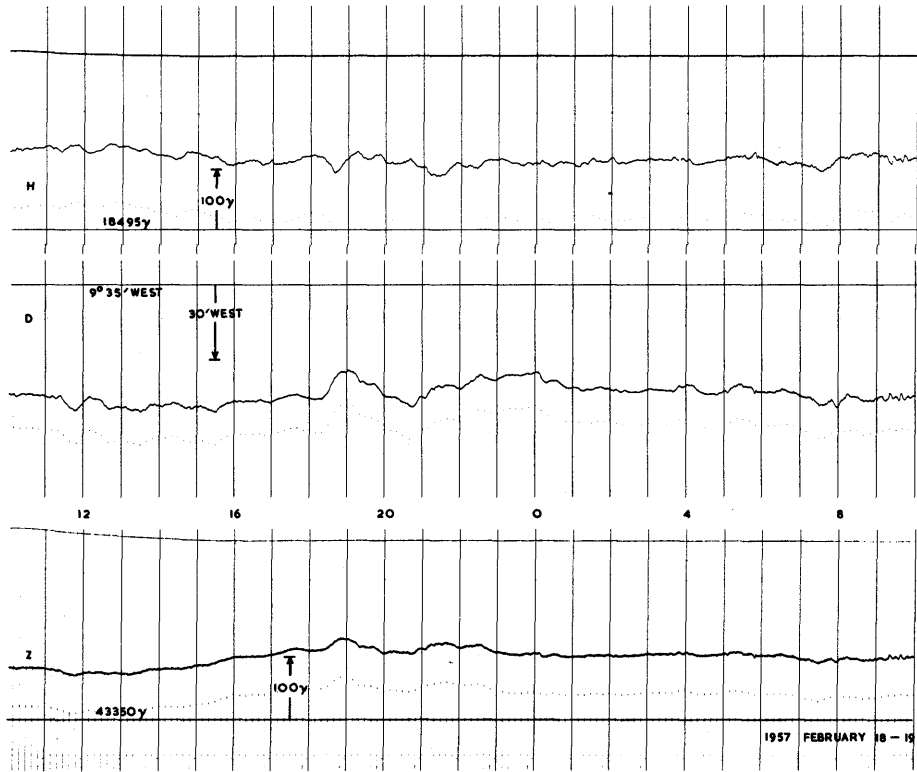
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FEBRUARY 16-17

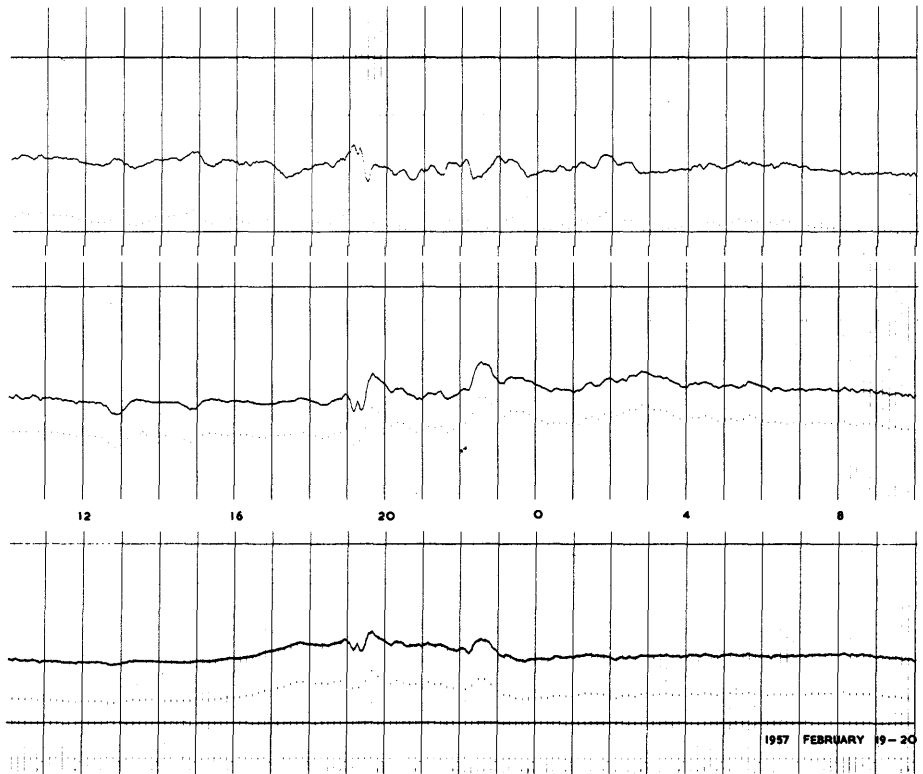


FEBRUARY 17-18

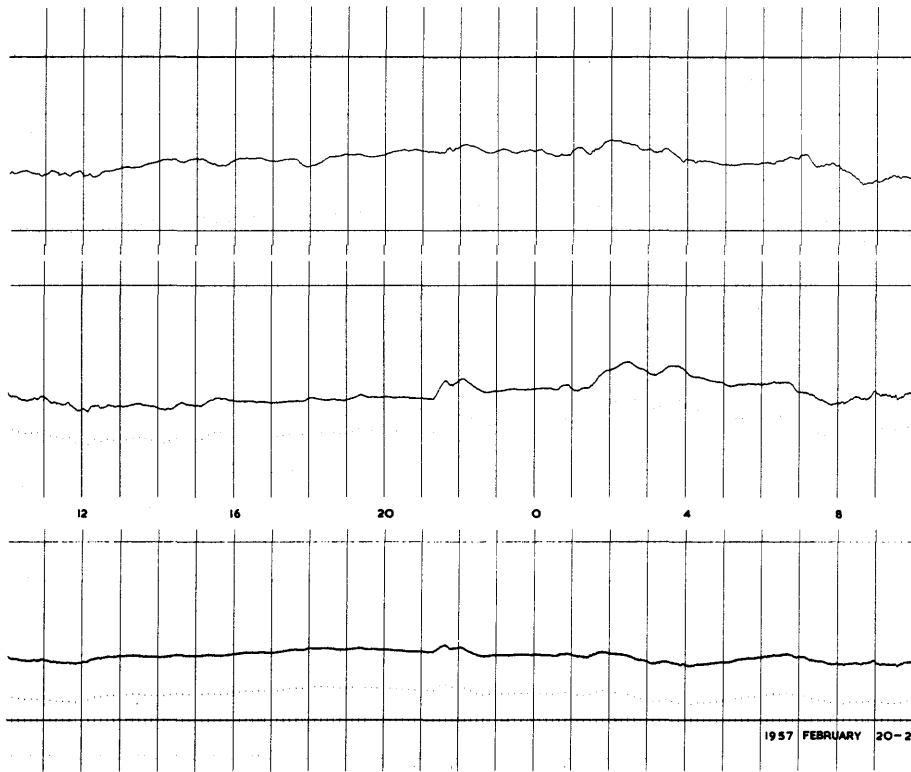
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FEBRUARY 18-19

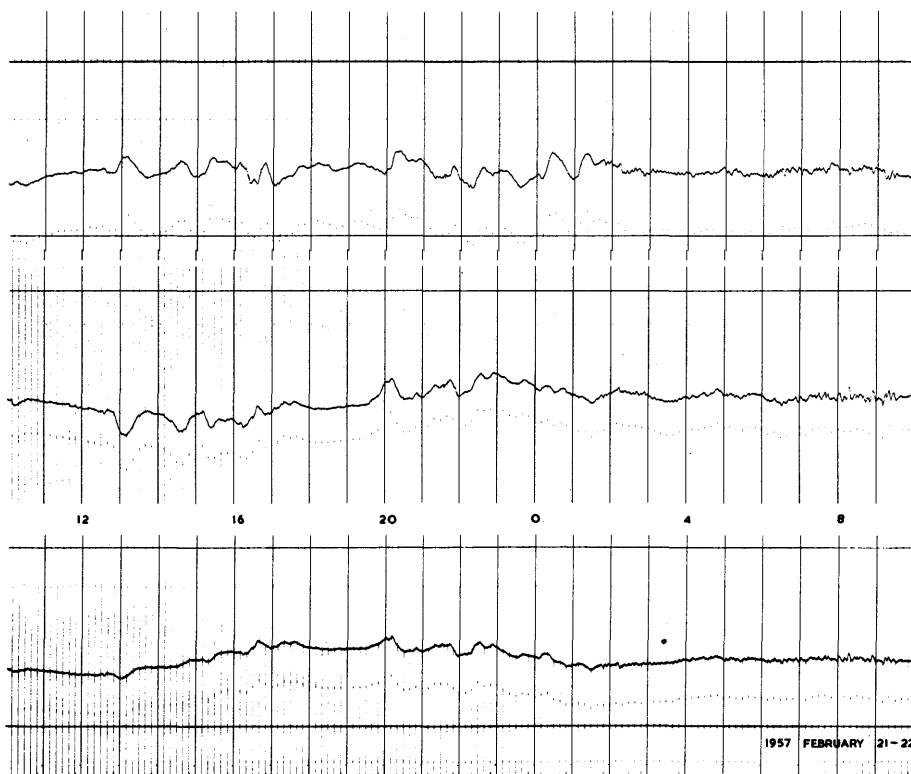


FEBRUARY 19-20



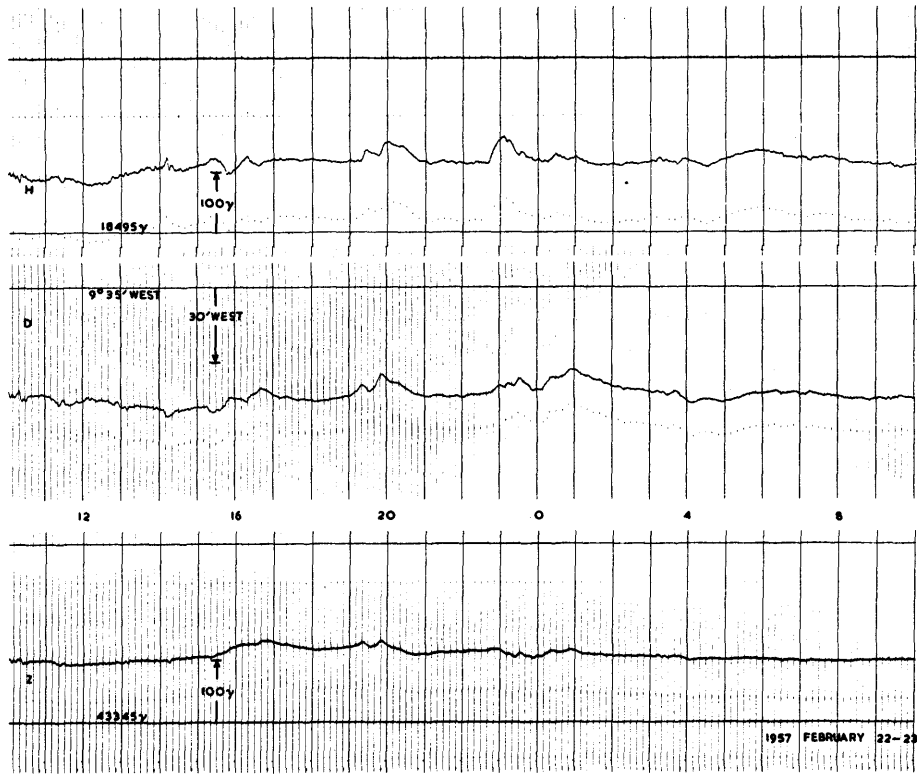
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FEBRUARY 20-21

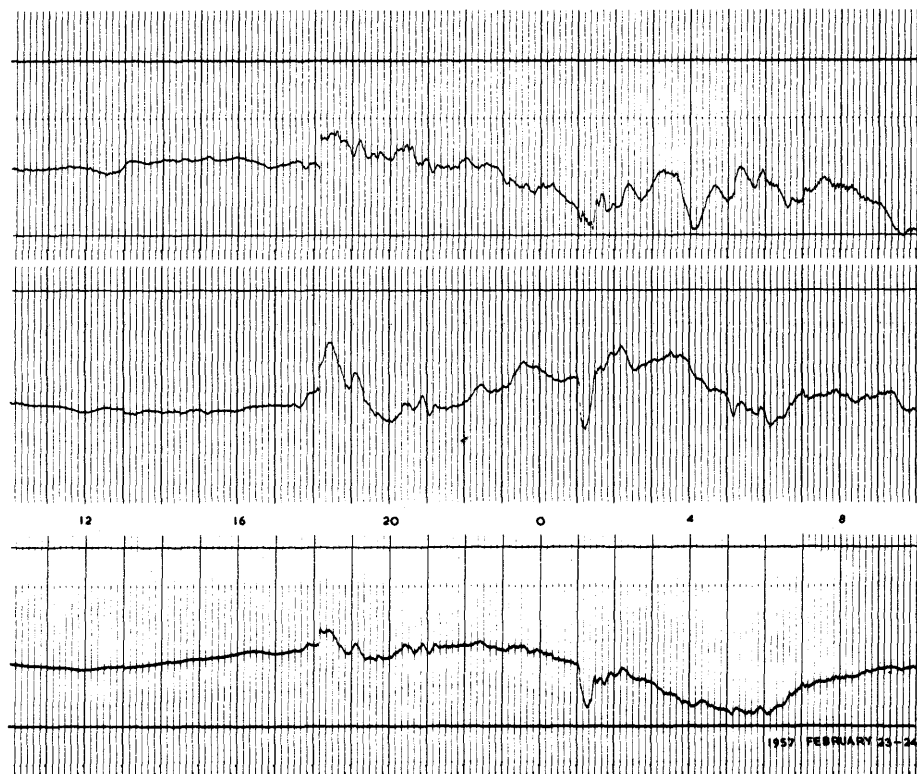


FEBRUARY 21-22

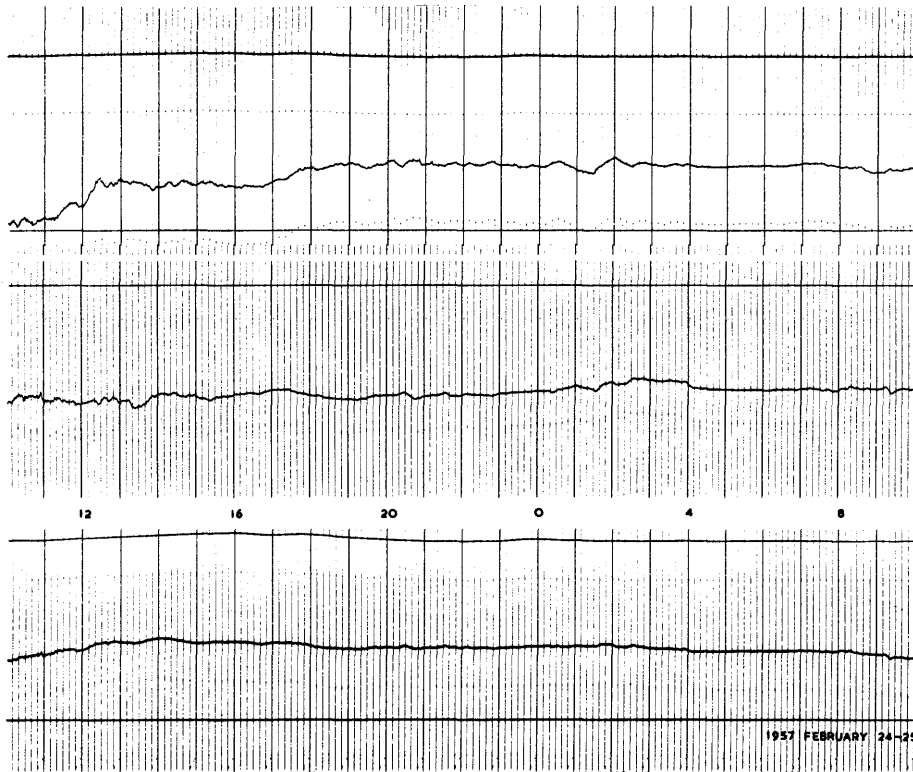
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FEBRUARY 22-23

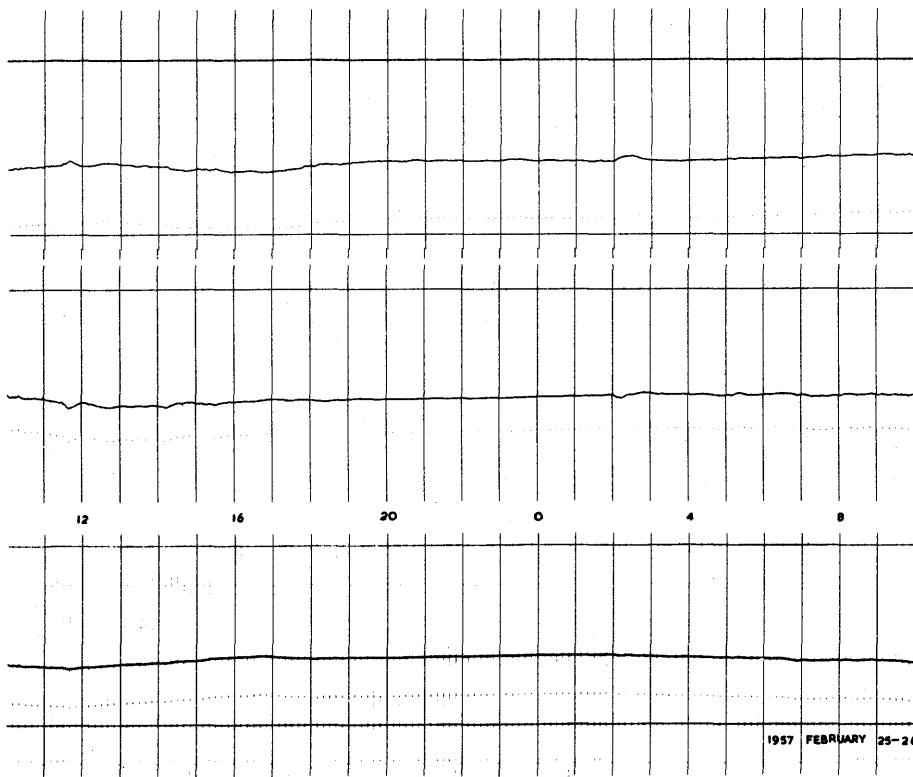


FEBRUARY 23-24



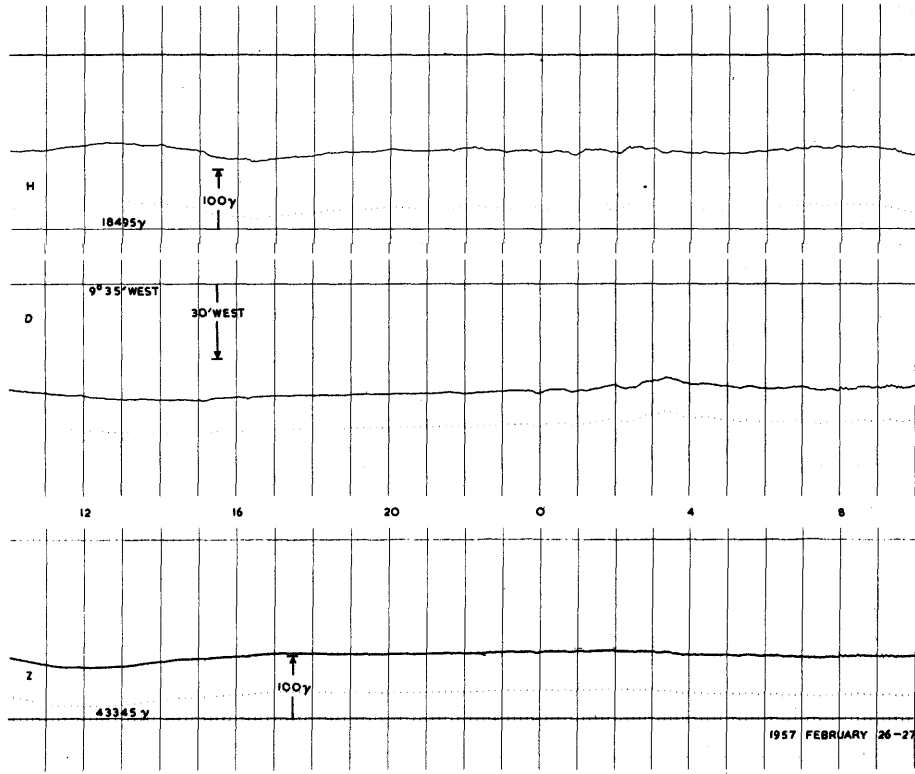
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FEBRUARY 24-25

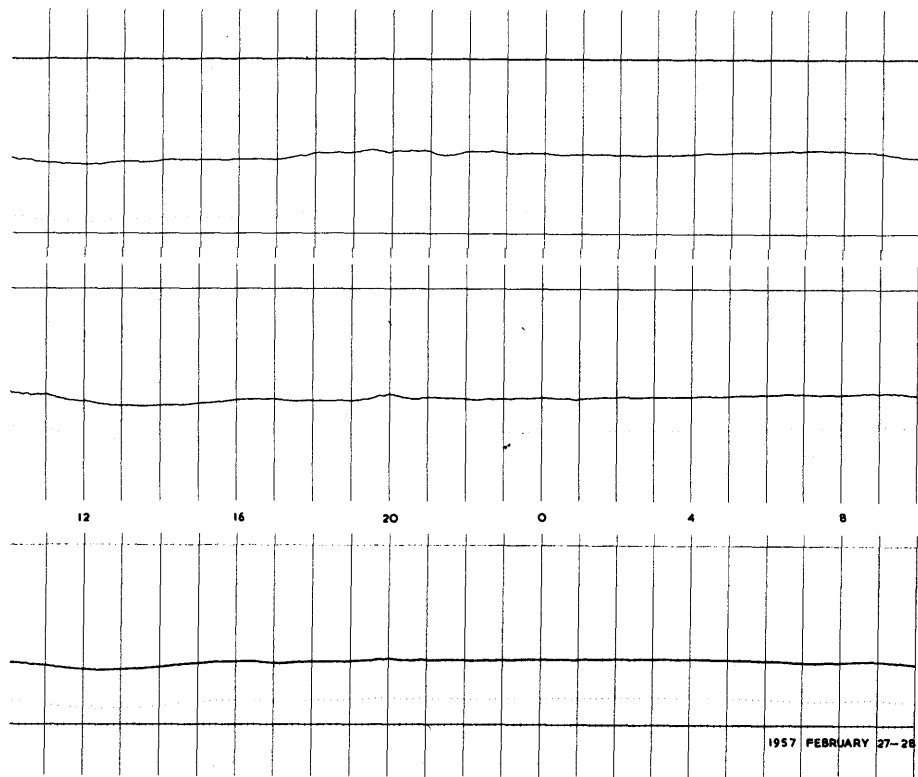


FEBRUARY 25-26

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FEBRUARY 26-27

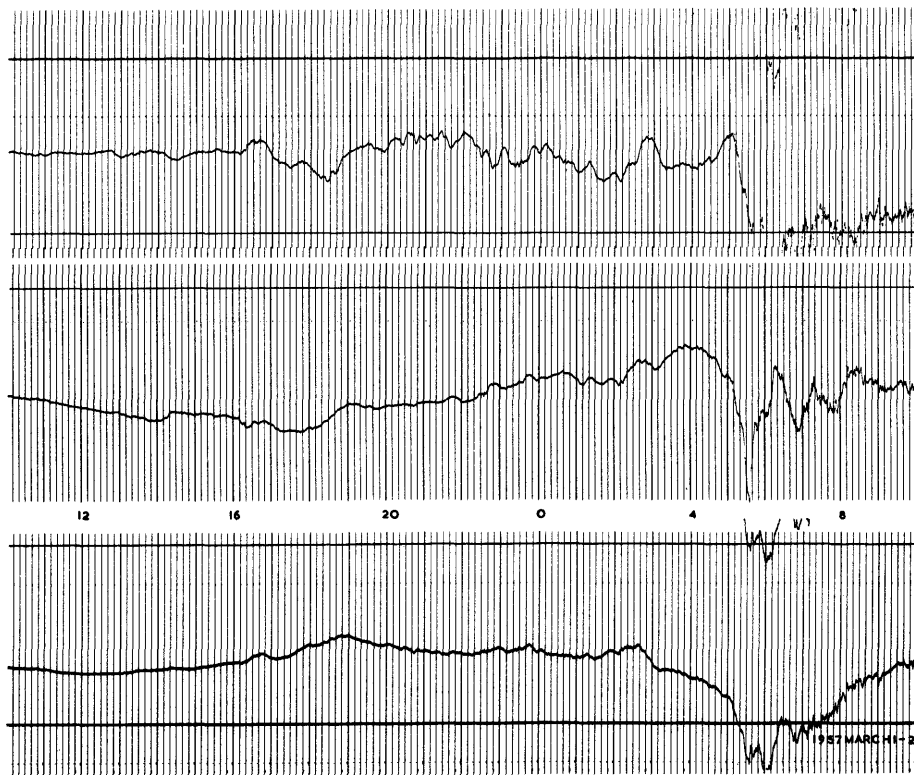


FEBRUARY 27-28



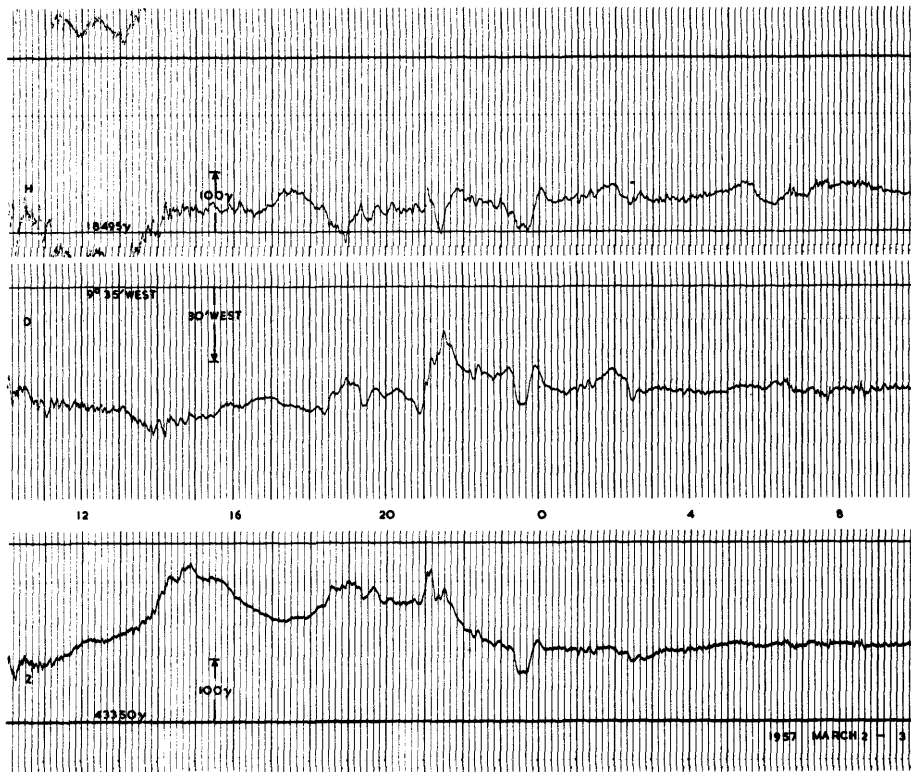
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FEB.28 - MAR.1



MARCH 1-2

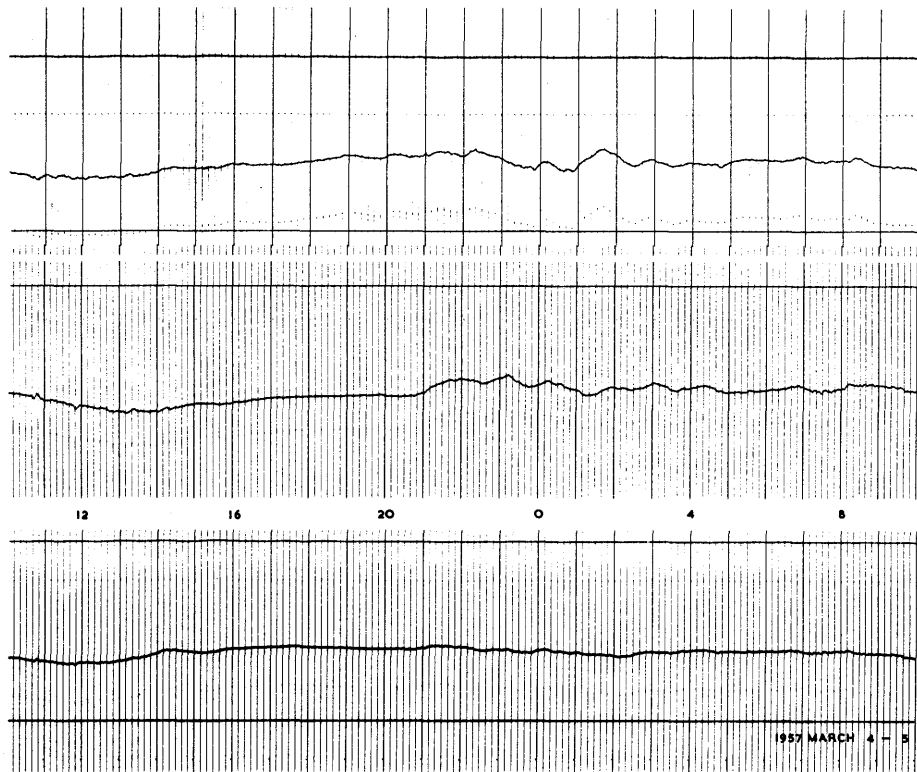
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MARCH 2-3

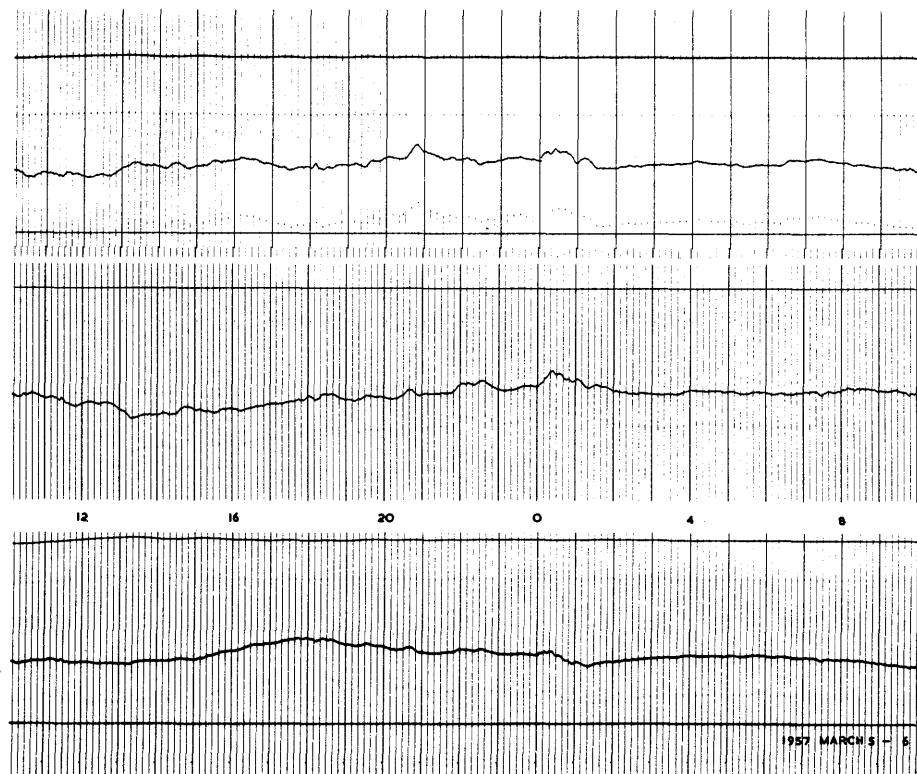
MARCH 3-4





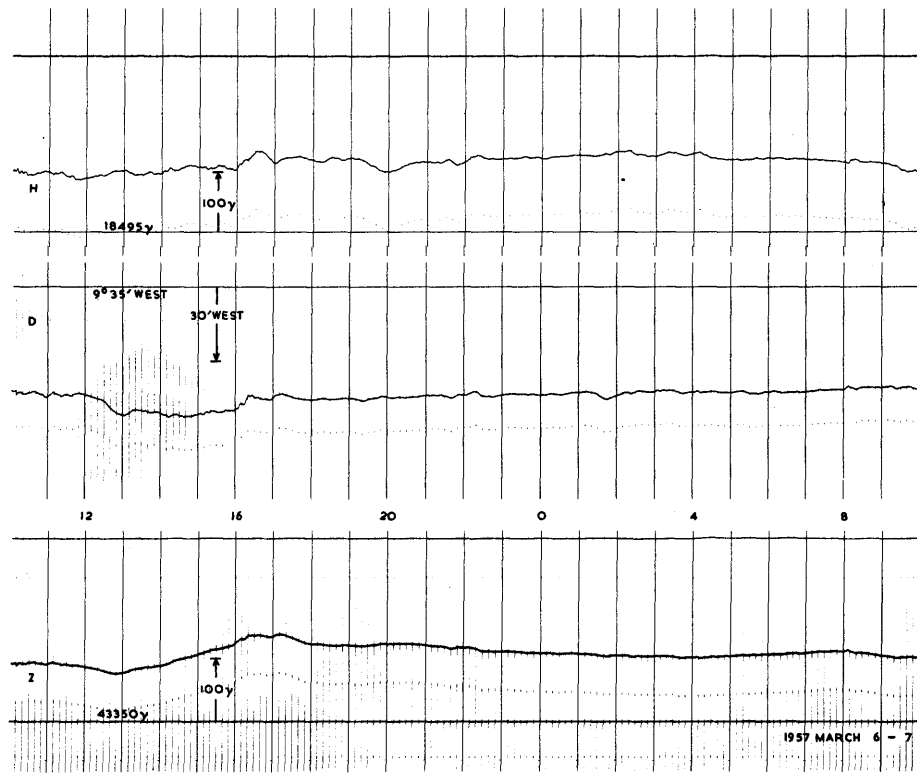
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MARCH 4-5

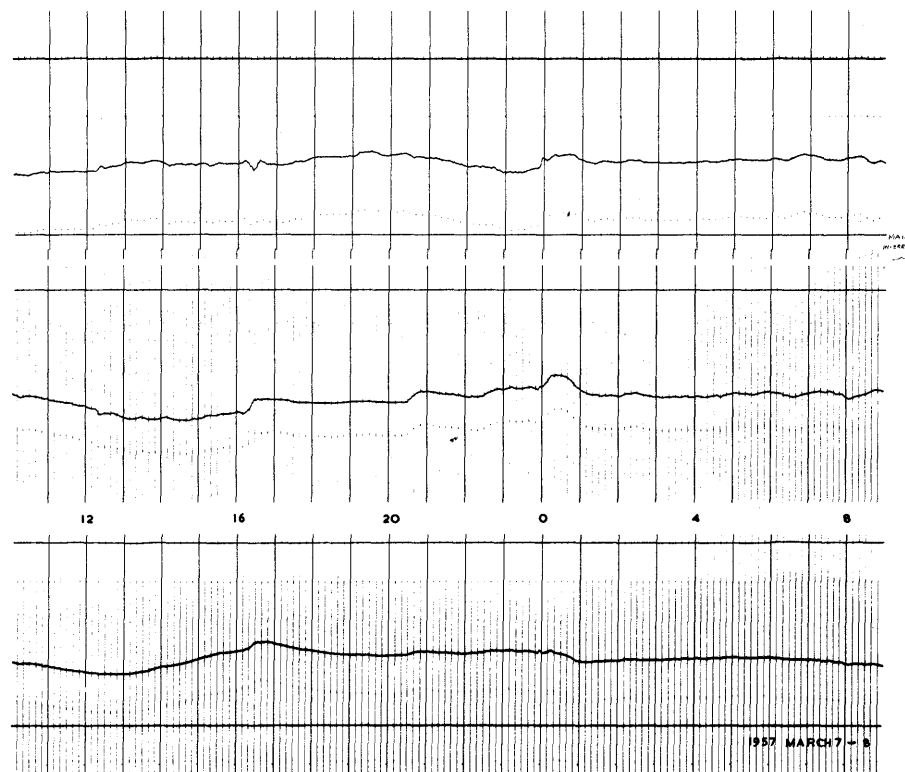


MARCH 5-6

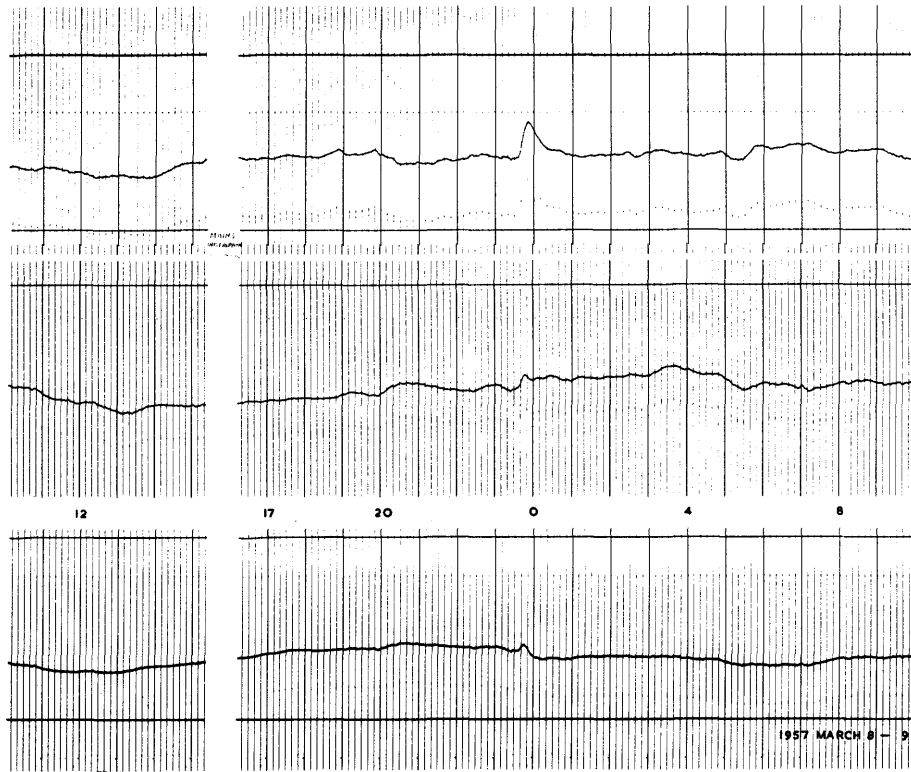
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MARCH 6-7

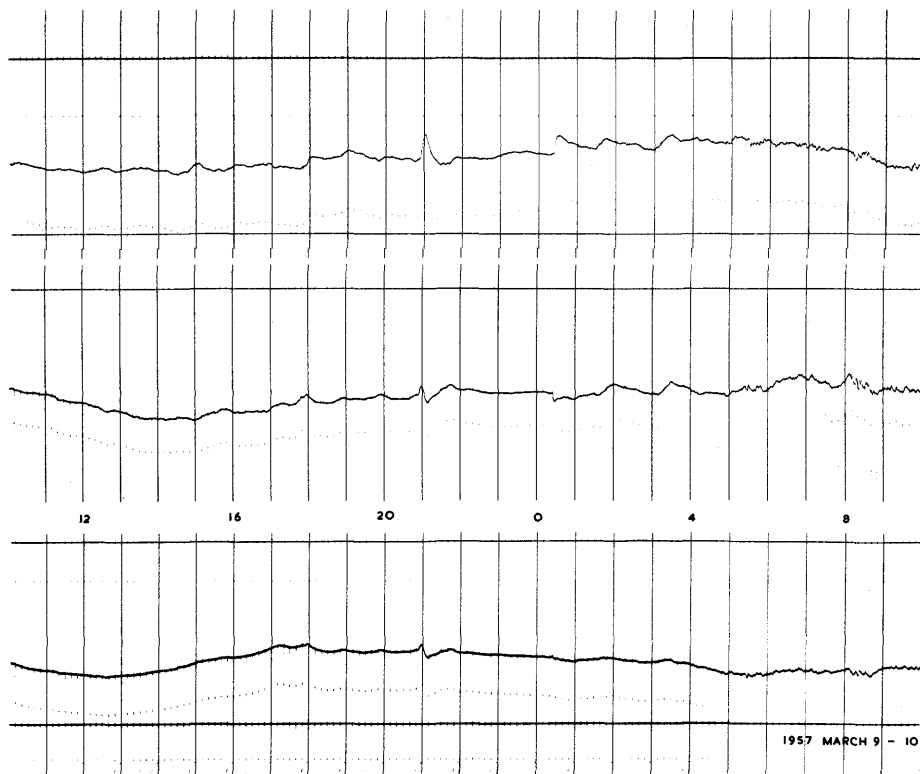


MARCH 7-8



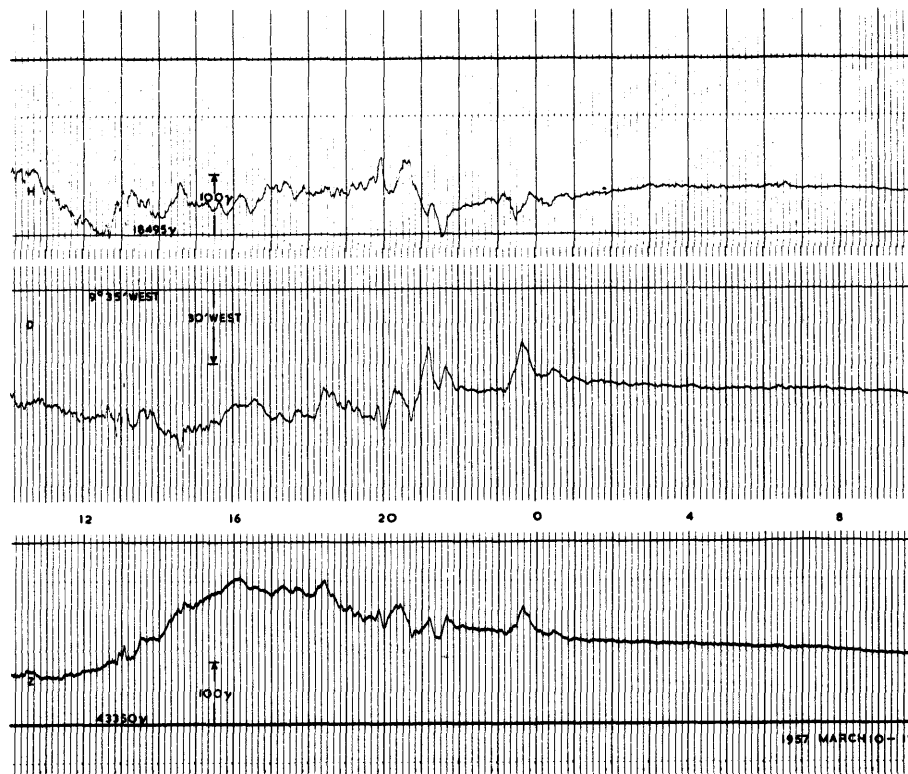
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MARCH 8-9

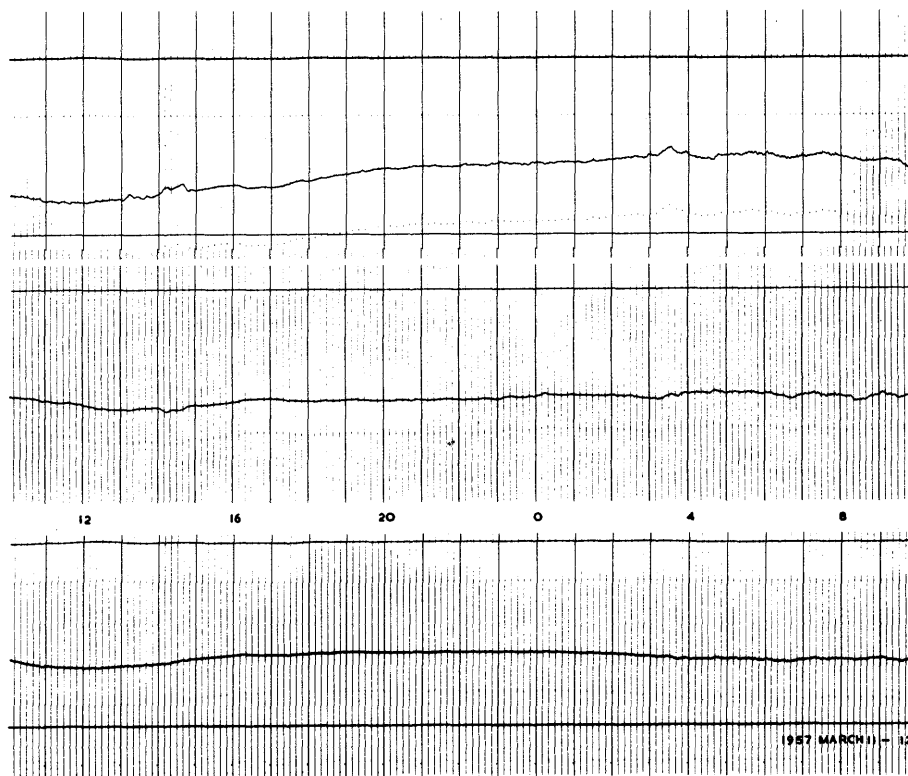


MARCH 9-10

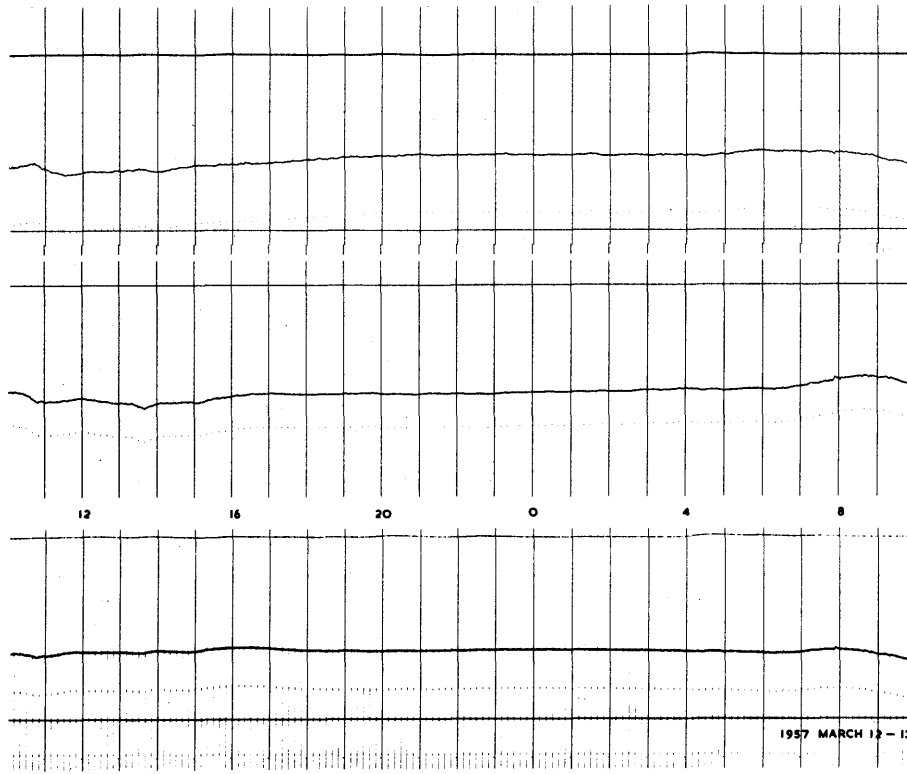
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MARCH 10-11

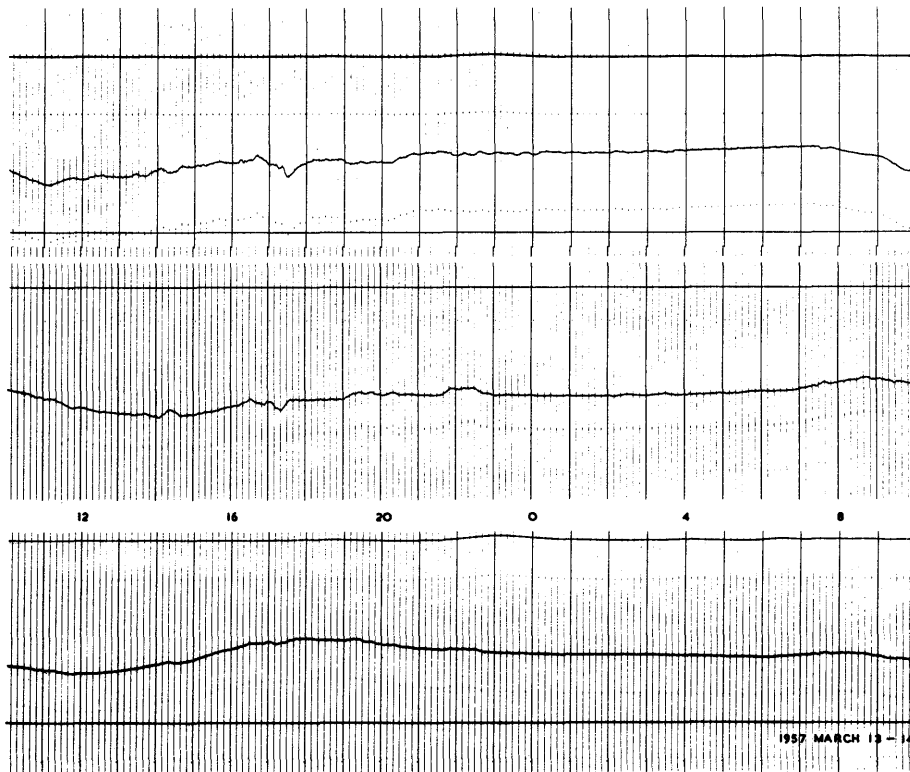


MARCH 11-12



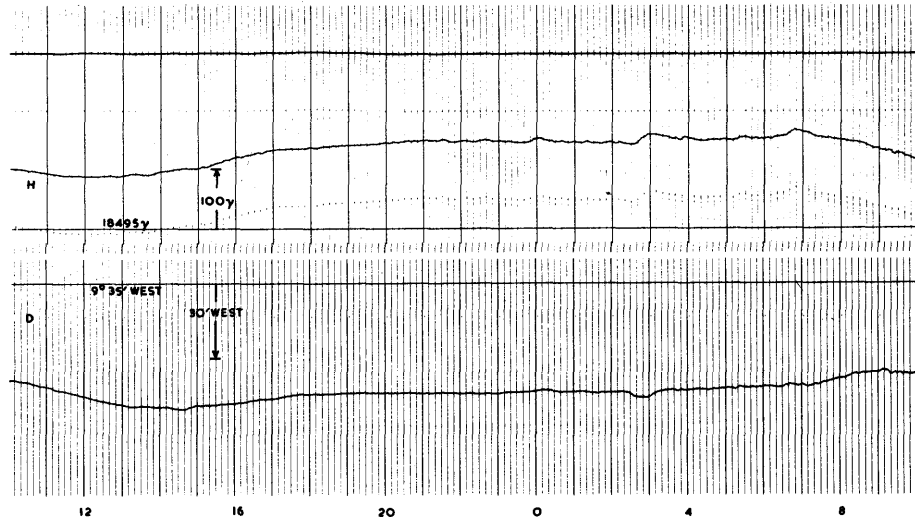
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MARCH 12-13

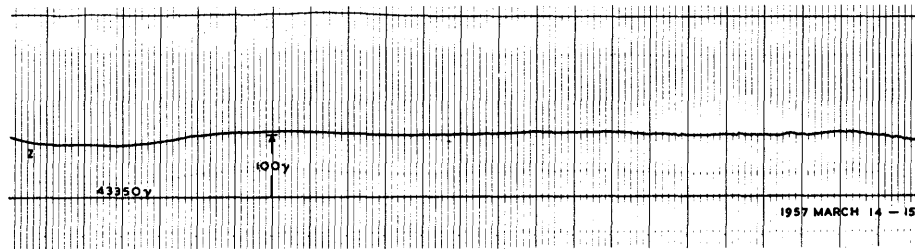


MARCH 13-14

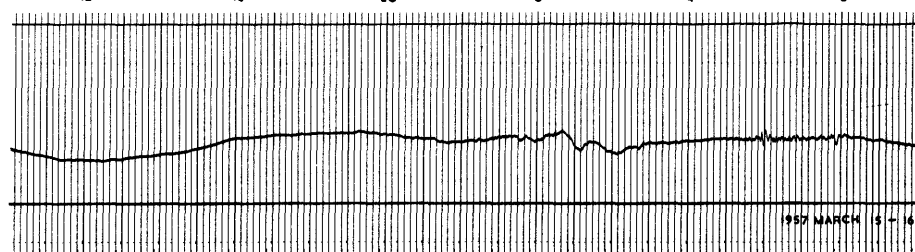
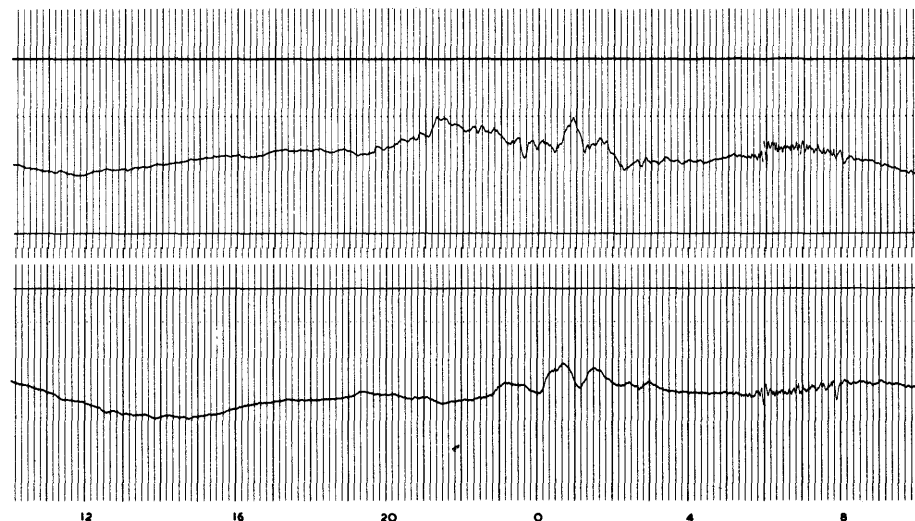
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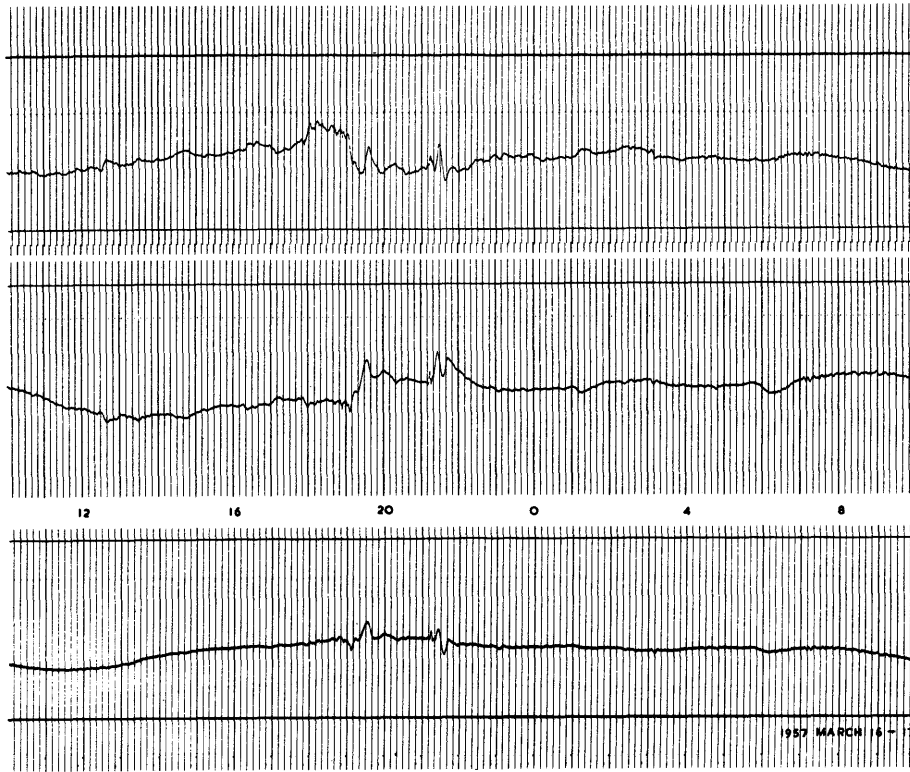


MARCH 14-15



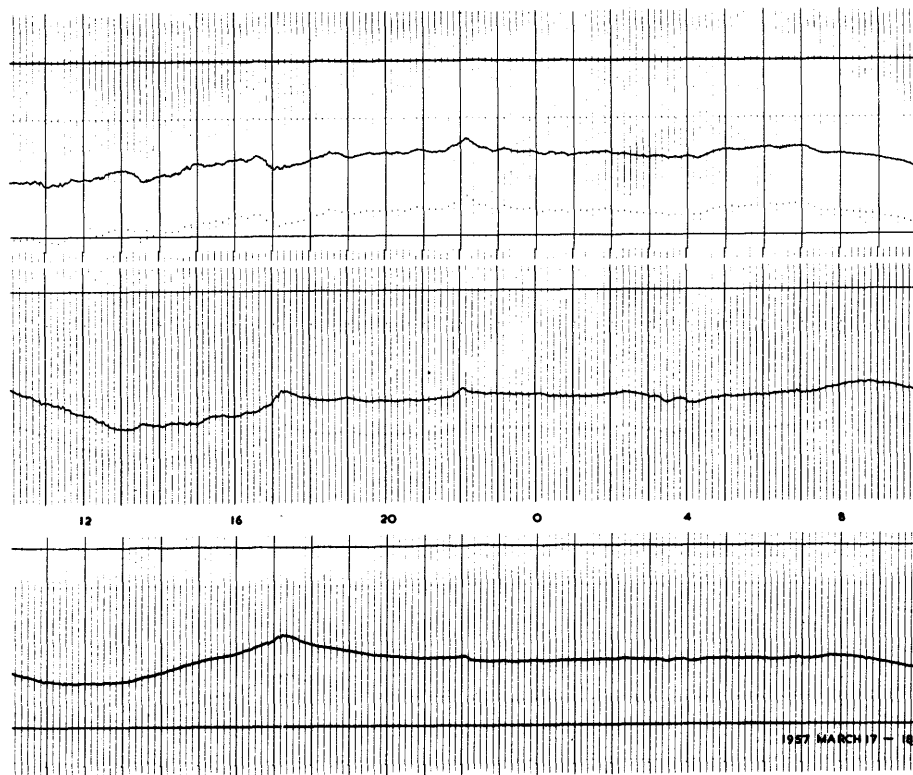
MARCH 15-16





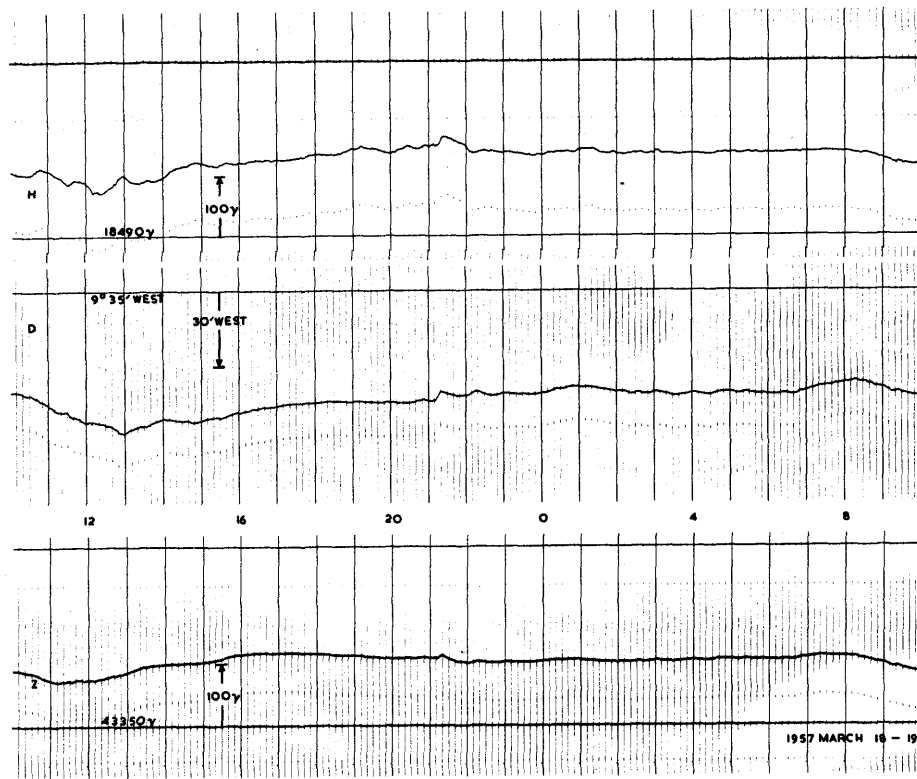
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MARCH 16-17



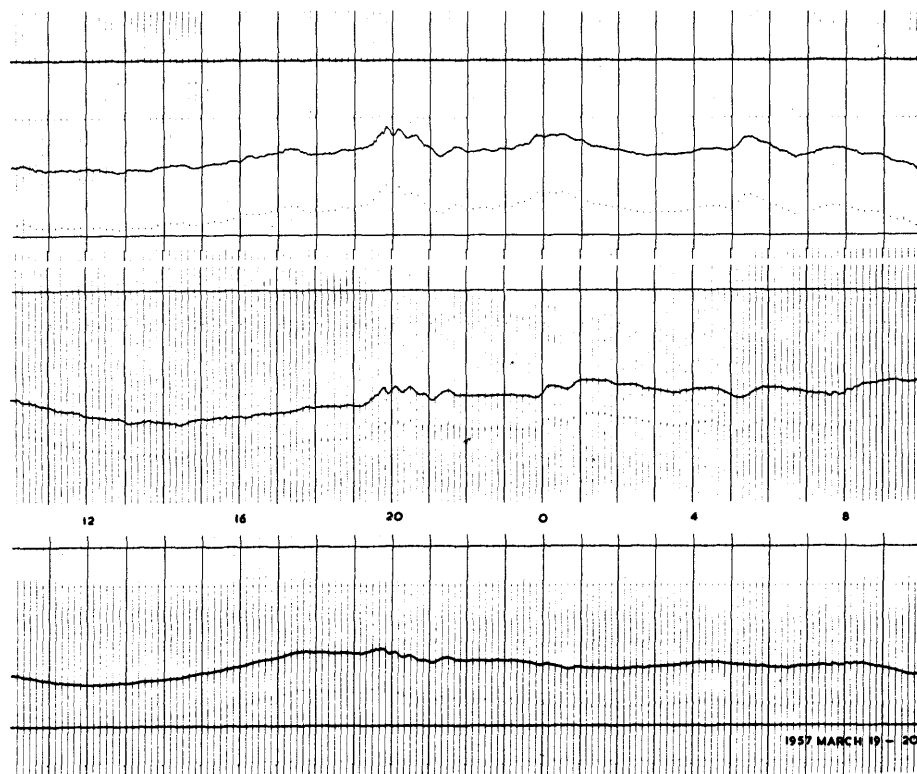
MARCH 17-18

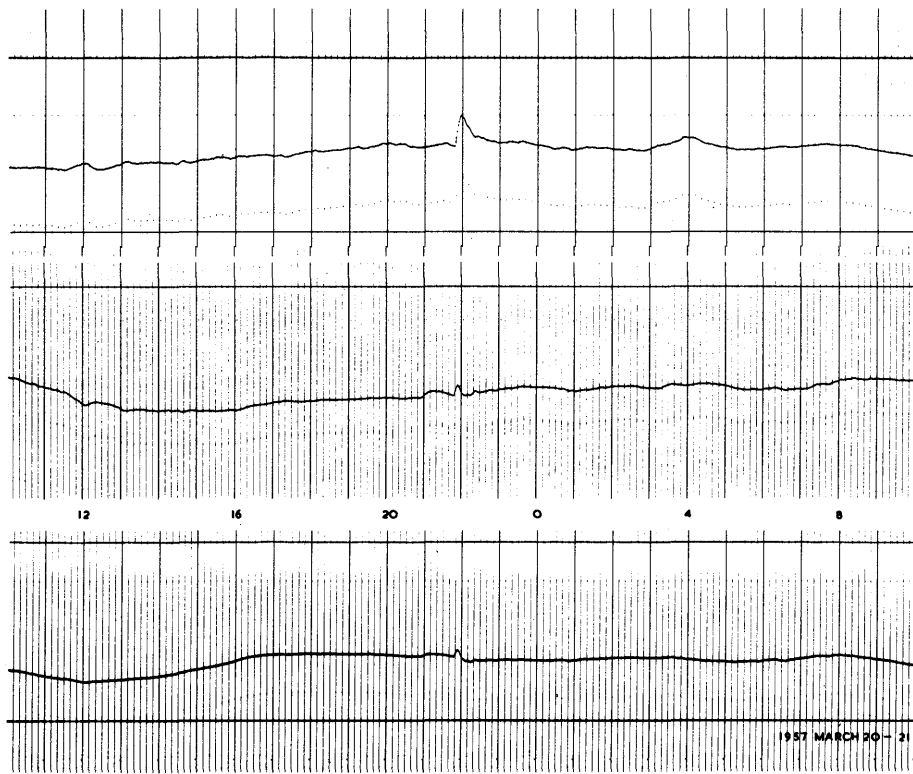
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MARCH 18-19

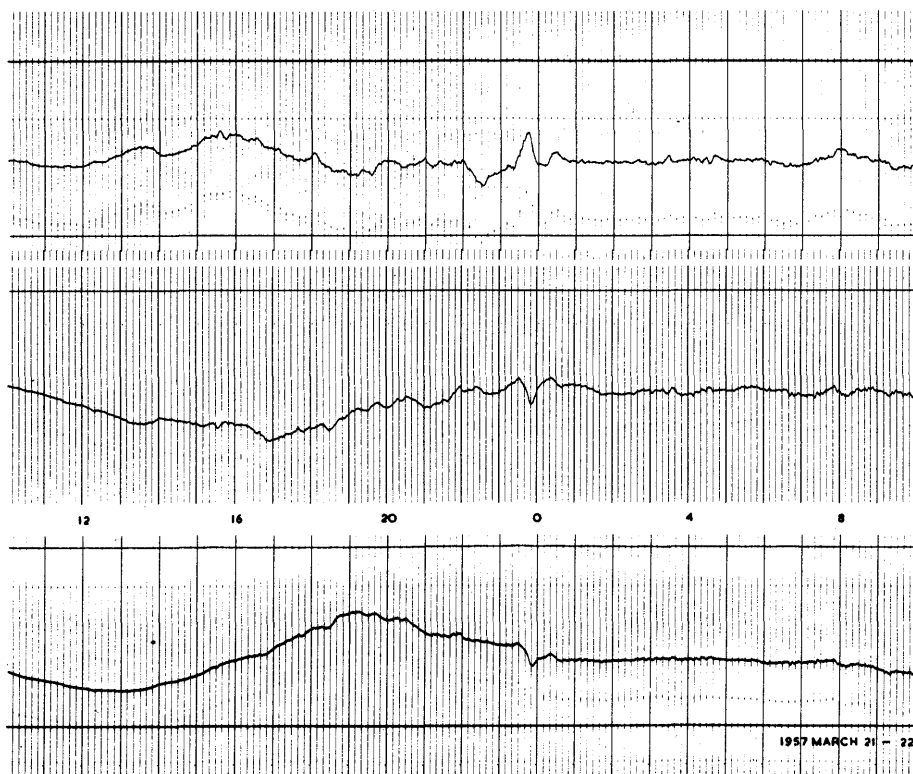
MARCH 19-20





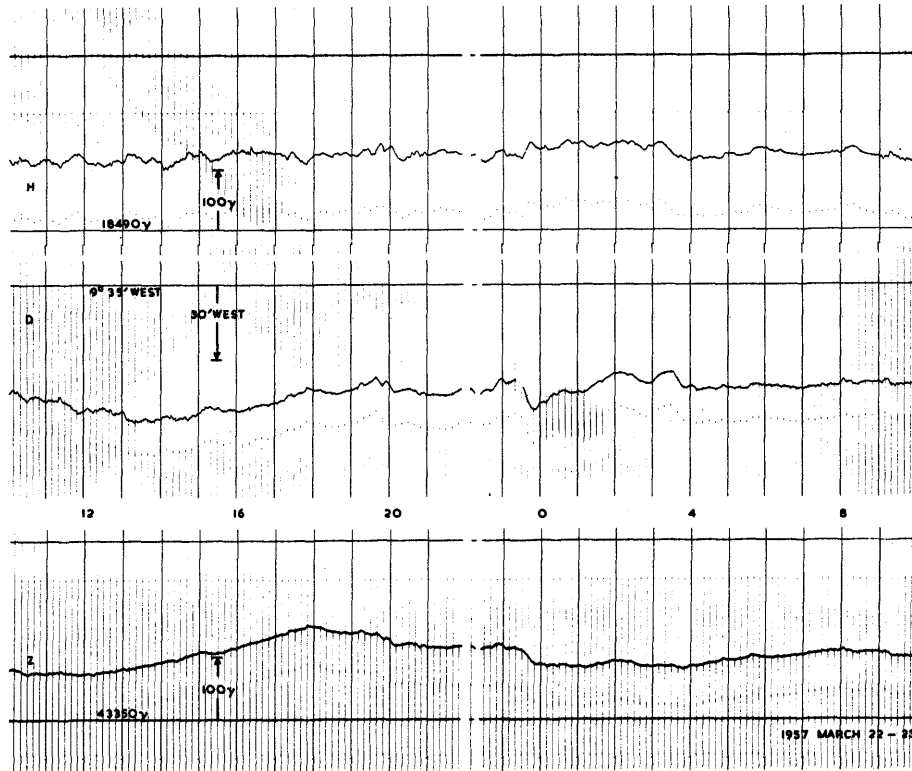
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MARCH 20-21

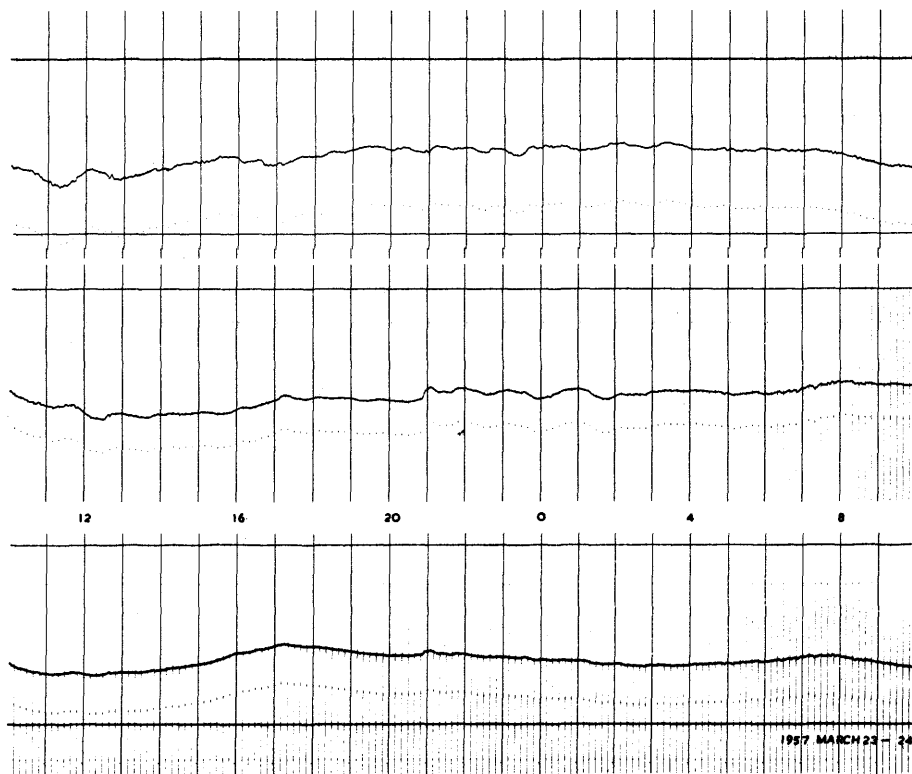


MARCH 21-22

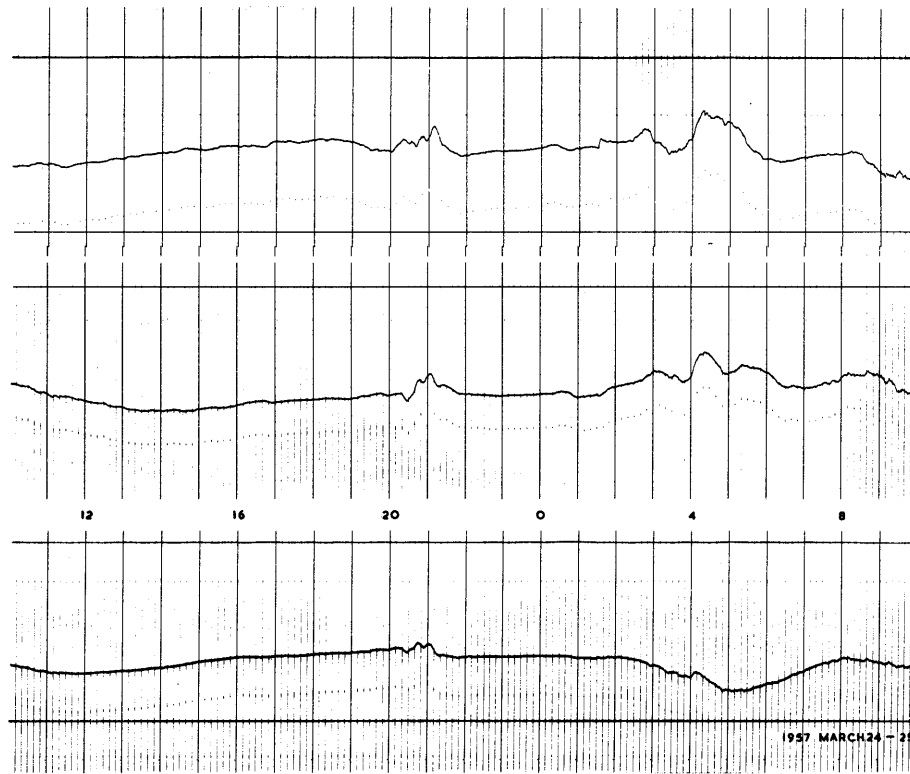
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MARCH 22-23

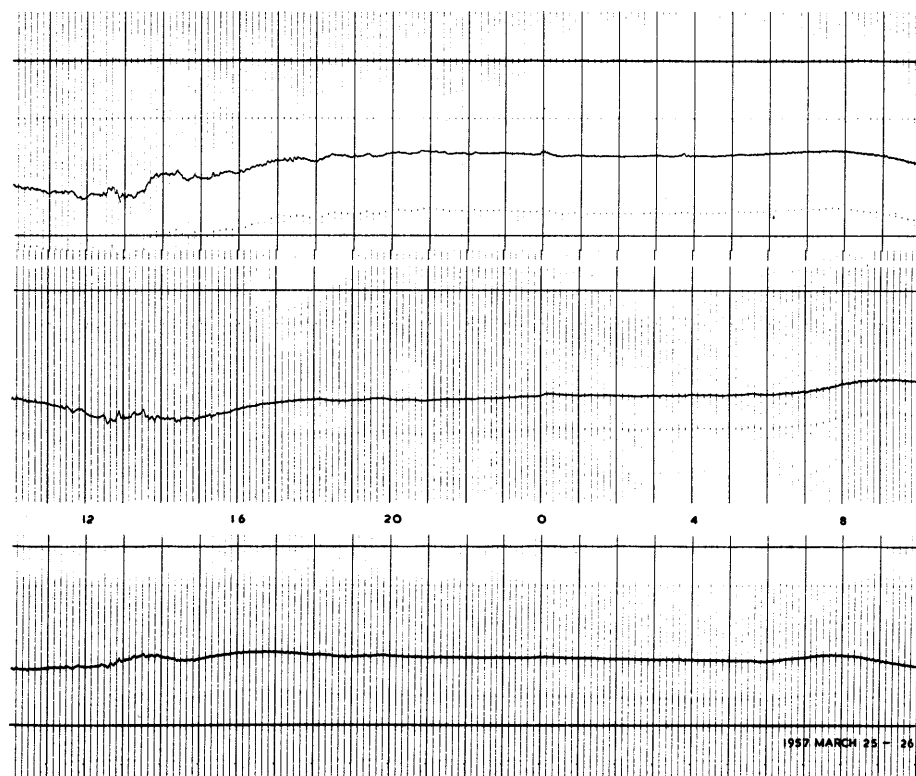


MARCH 23-24



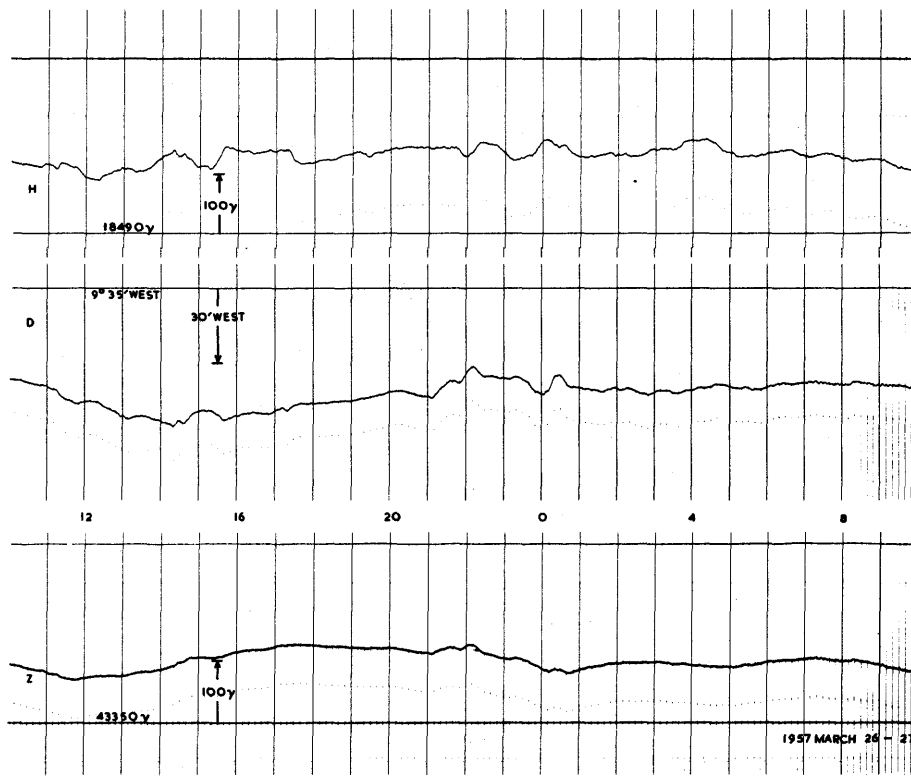
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MARCH 24-25

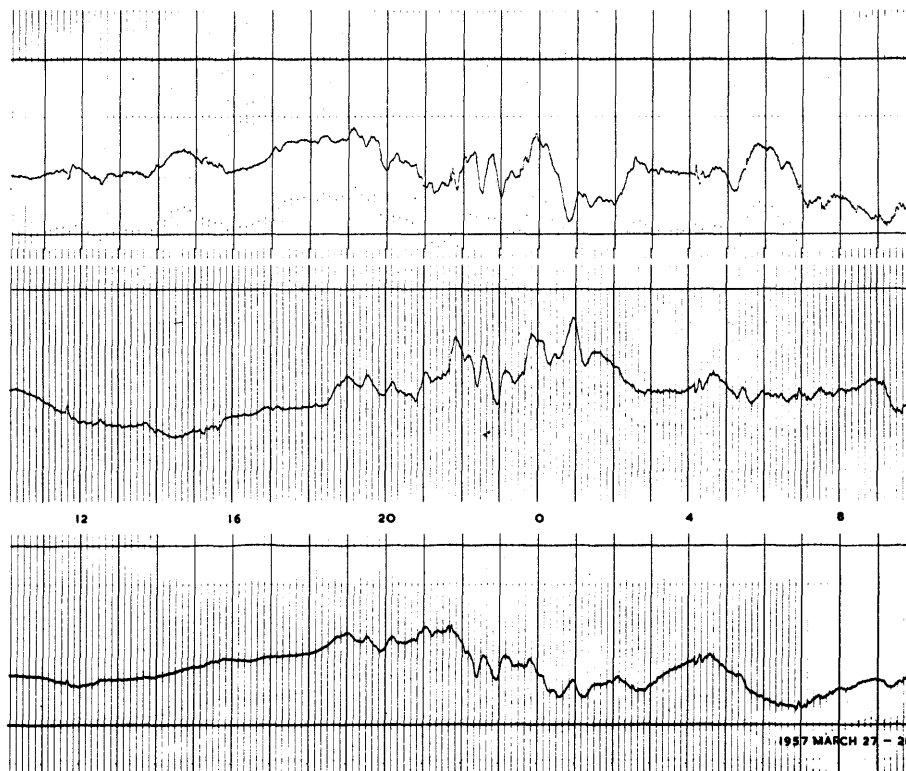


MARCH 25-26

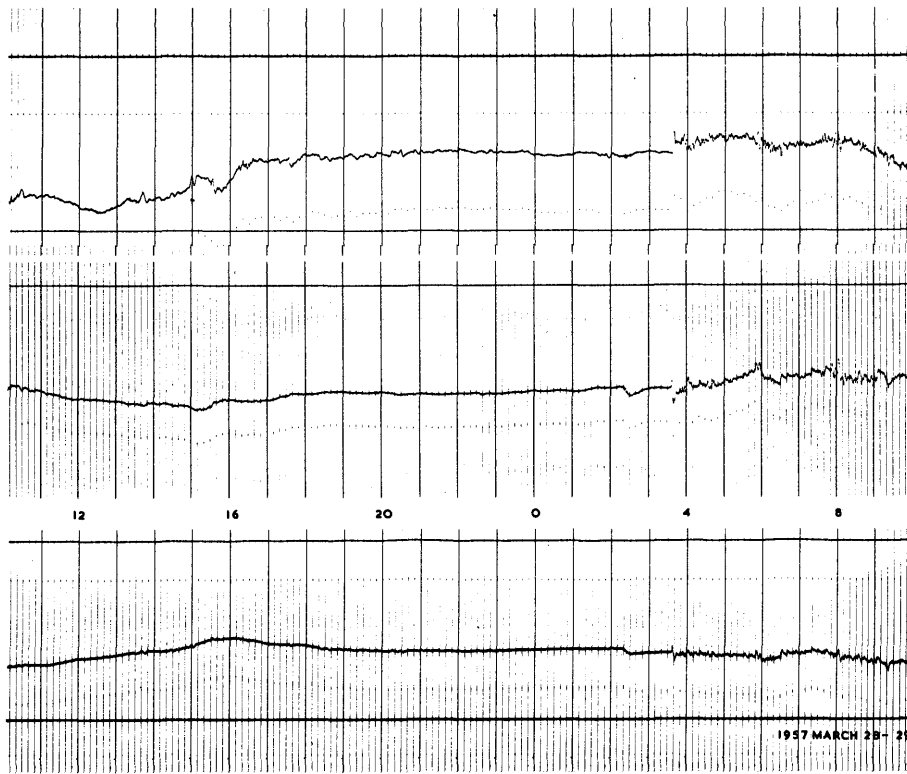
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MARCH 26-27

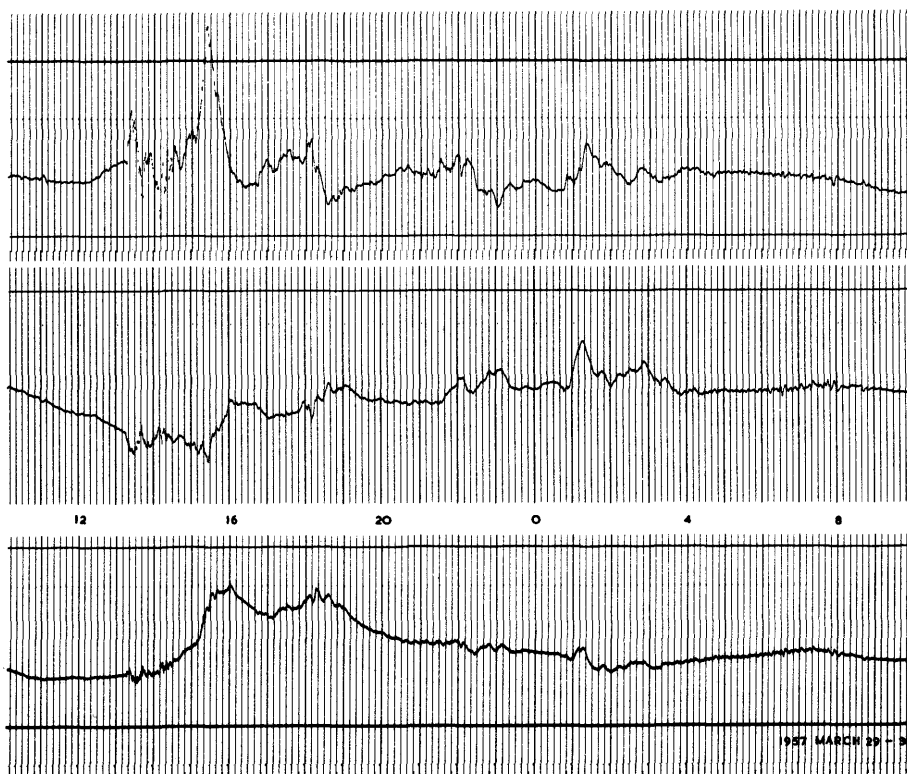


MARCH 27-28



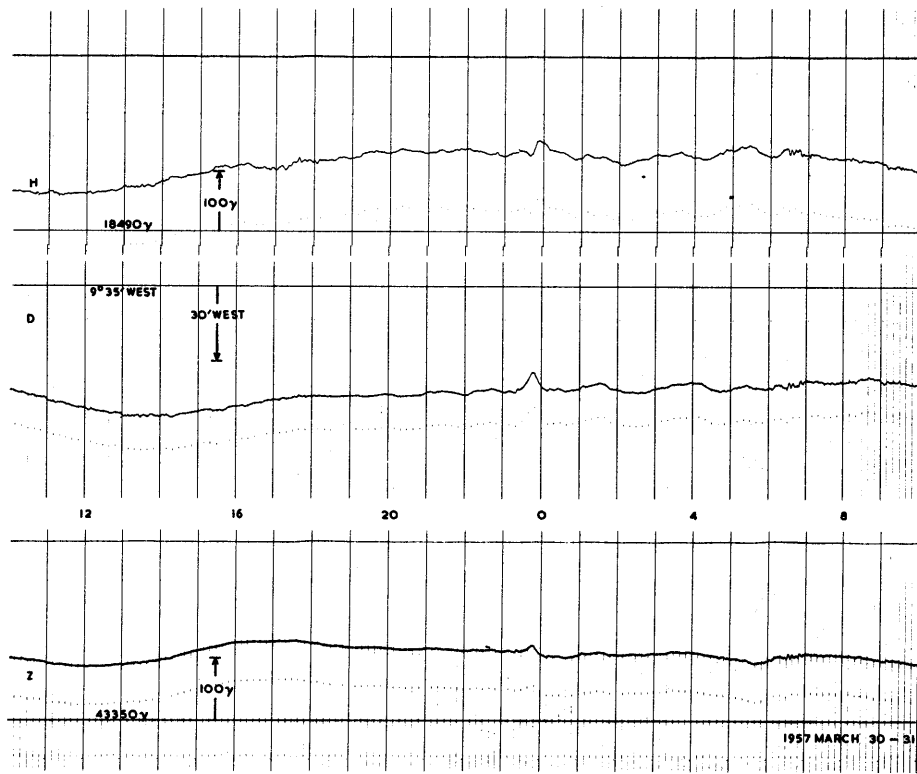
1957

MARCH 28-29

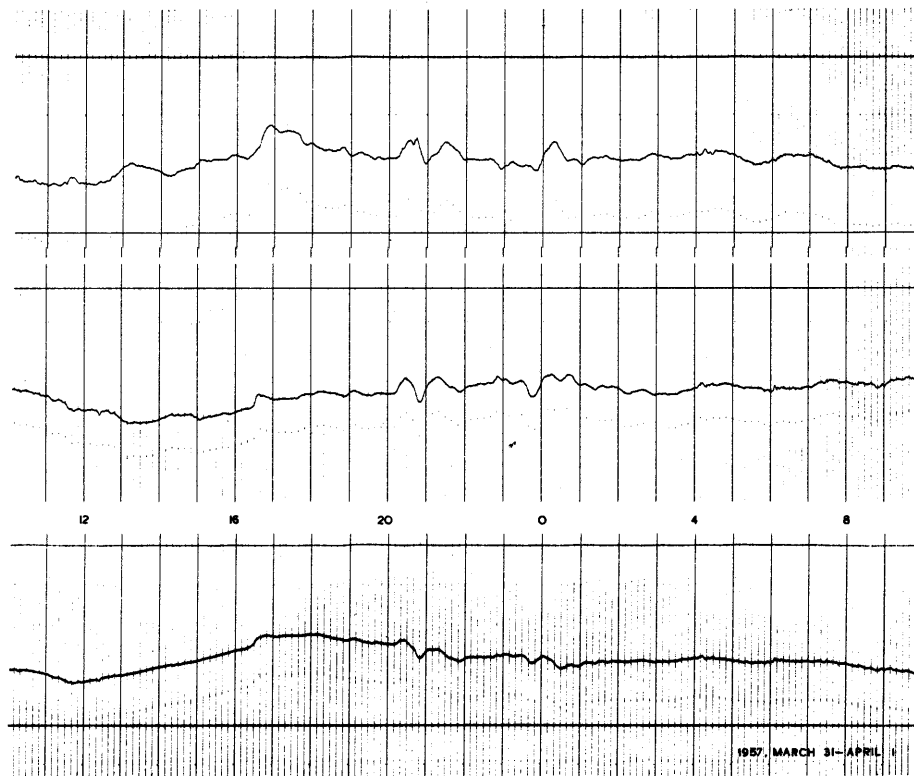


MARCH 29-30

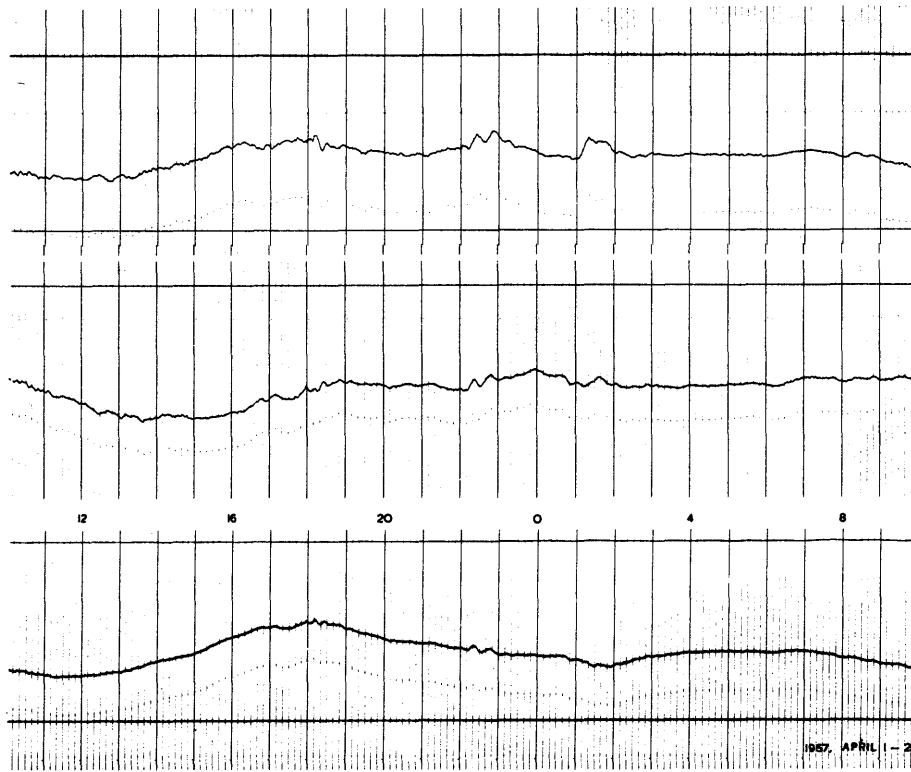
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MARCH 30-31

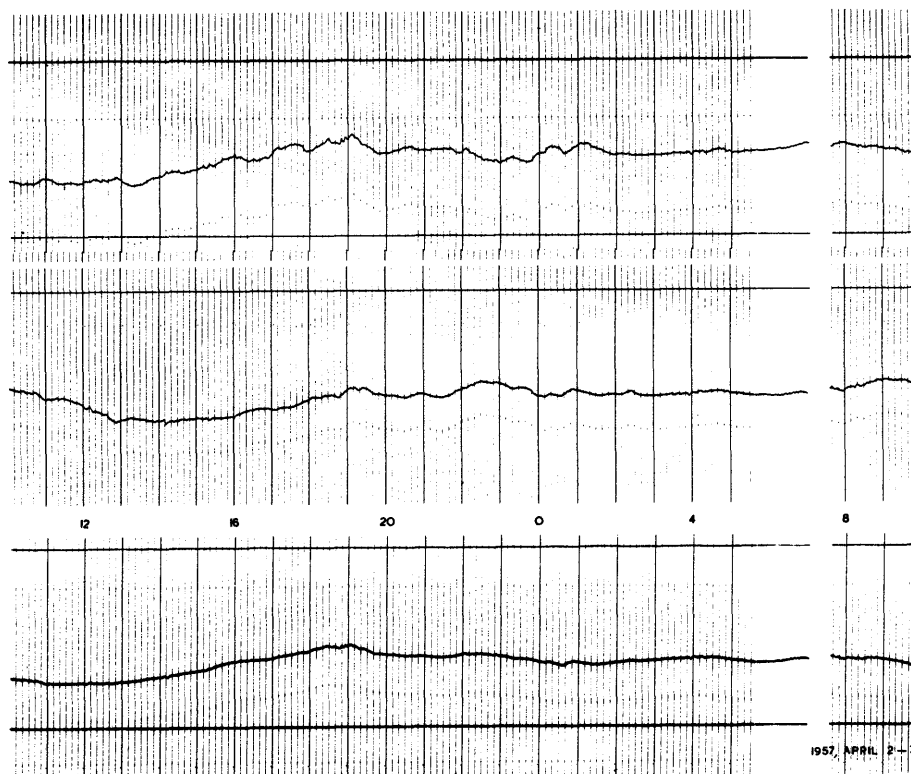


MAR.31 - APR.1



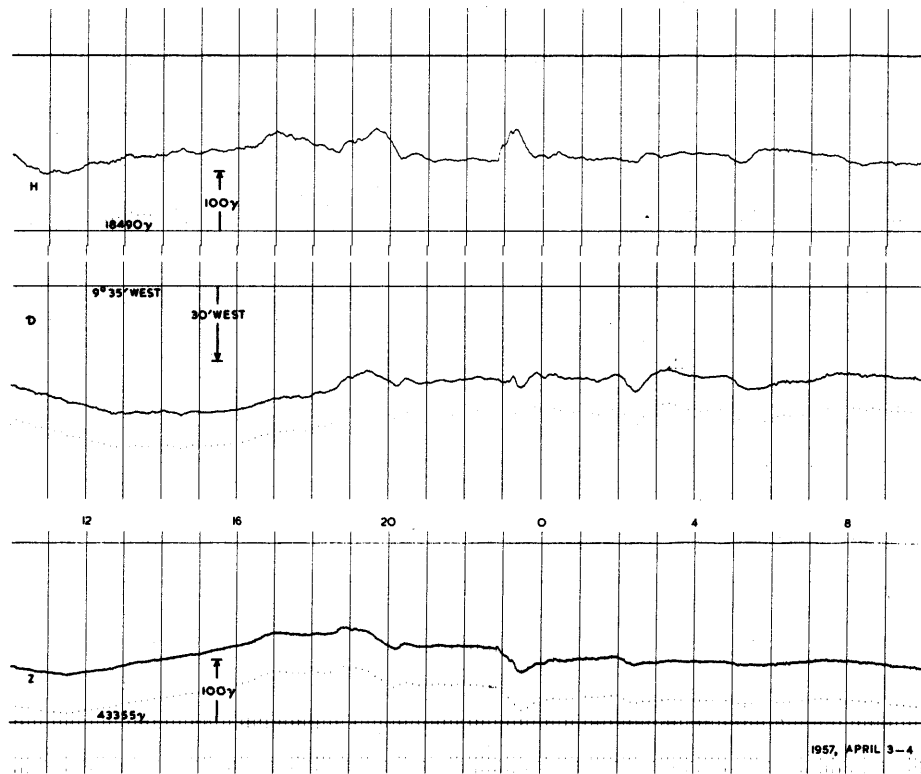
1957

APRIL 1-2

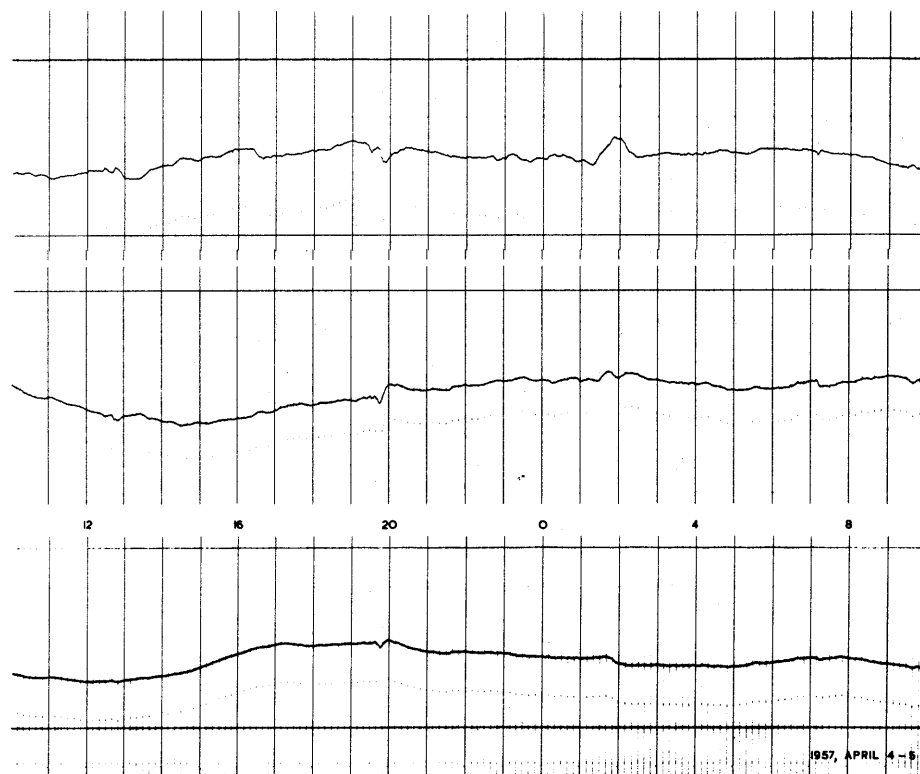


APRIL 2-3

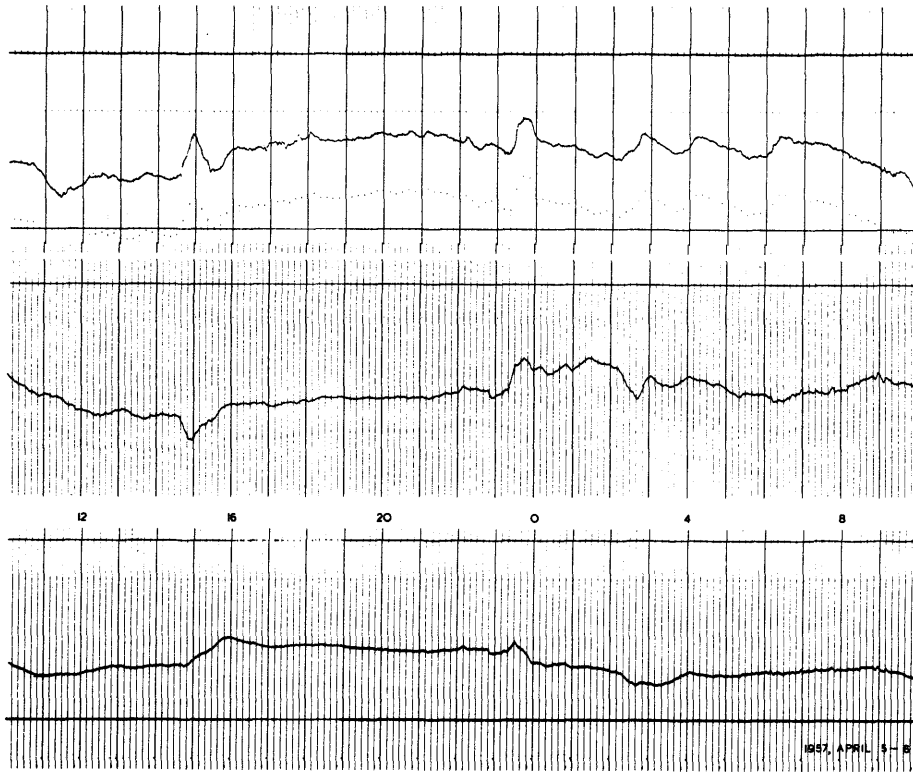
1957



APRIL 3-4

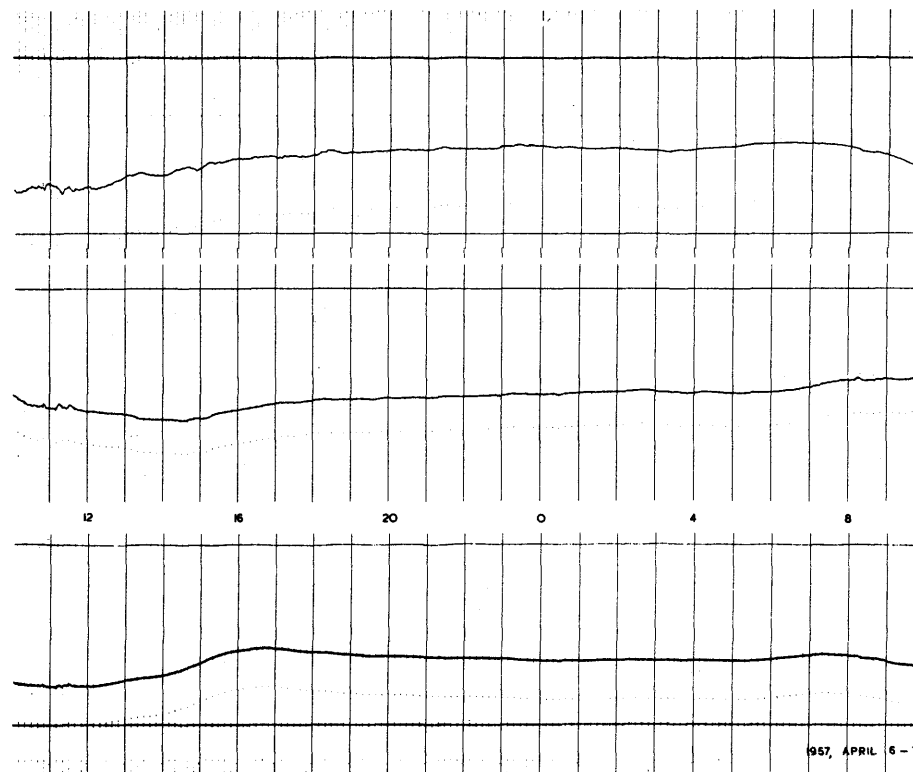


APRIL 4-5



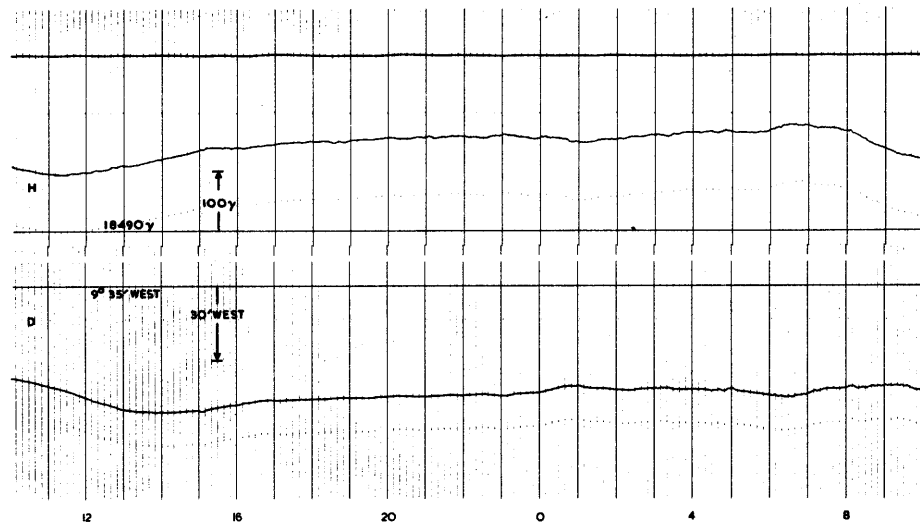
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APRIL 5-6

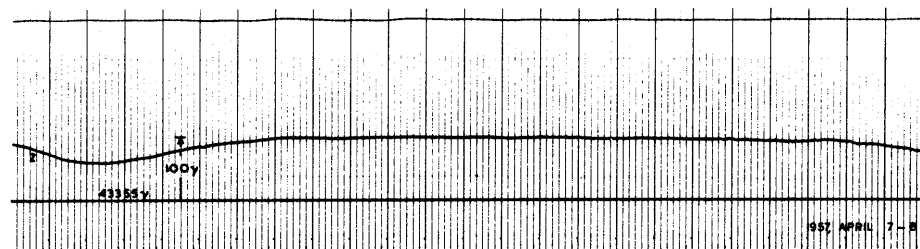


APRIL 6-7

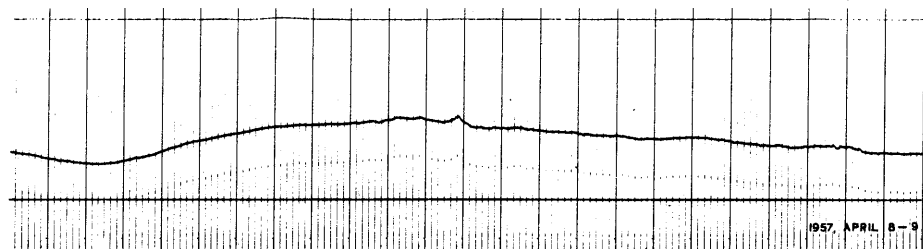
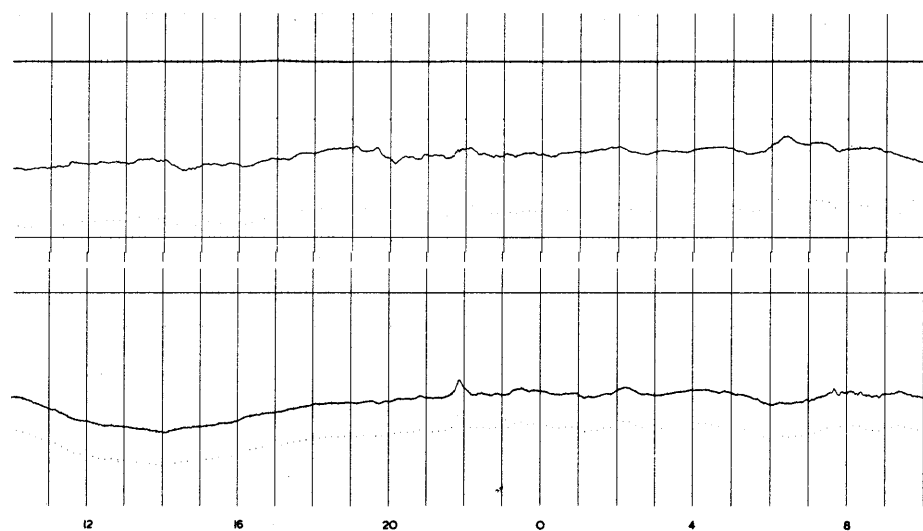
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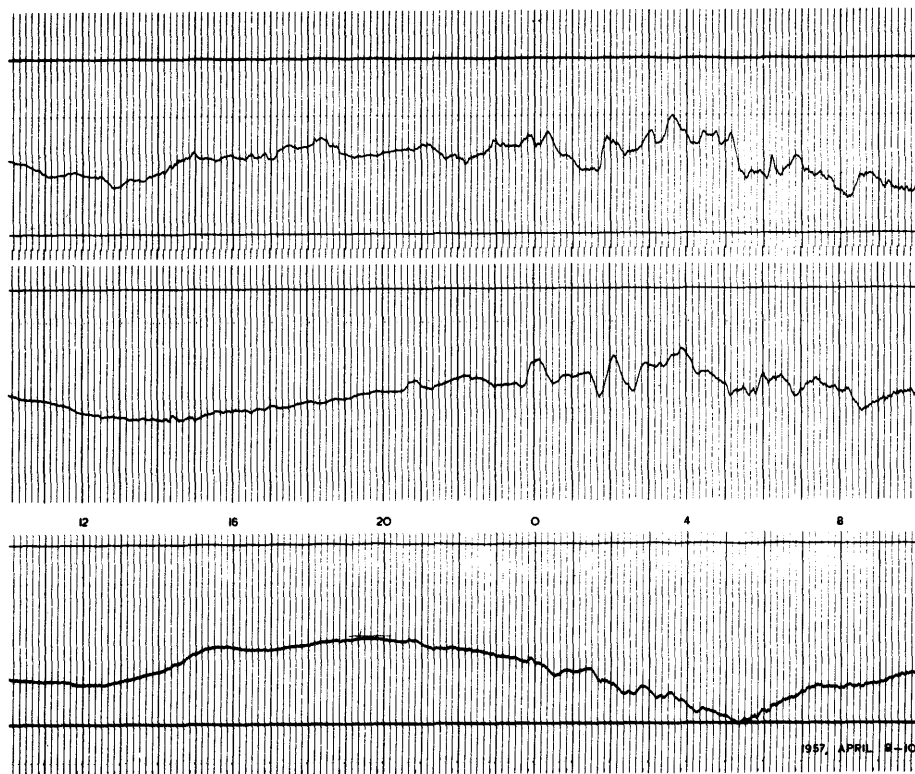


APRIL 7-8



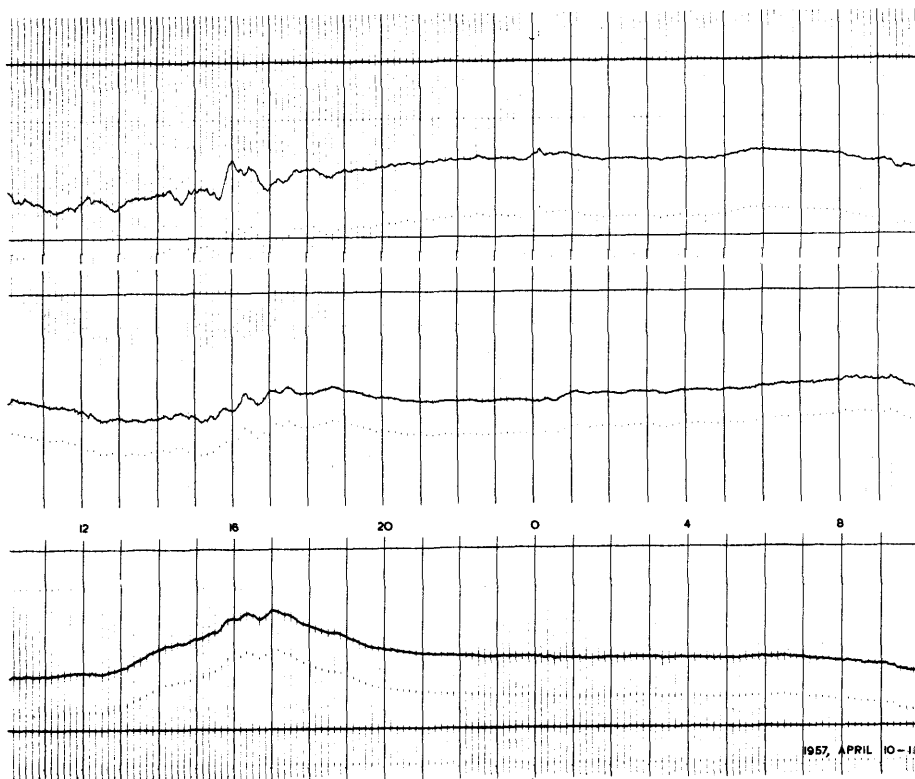
APRIL 8-9





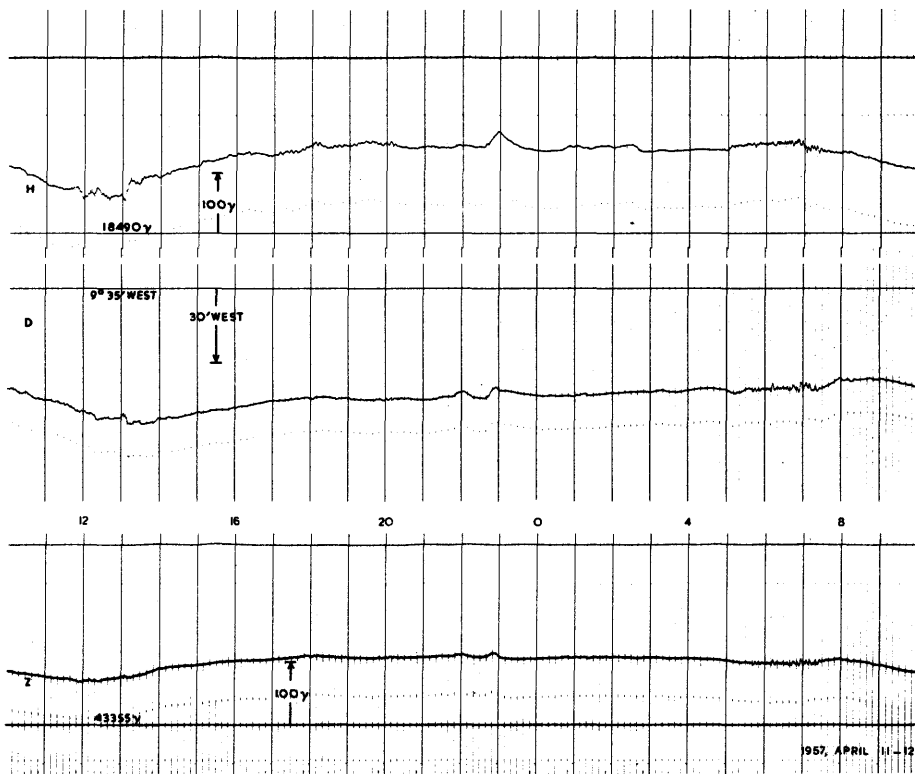
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APRIL 9-10

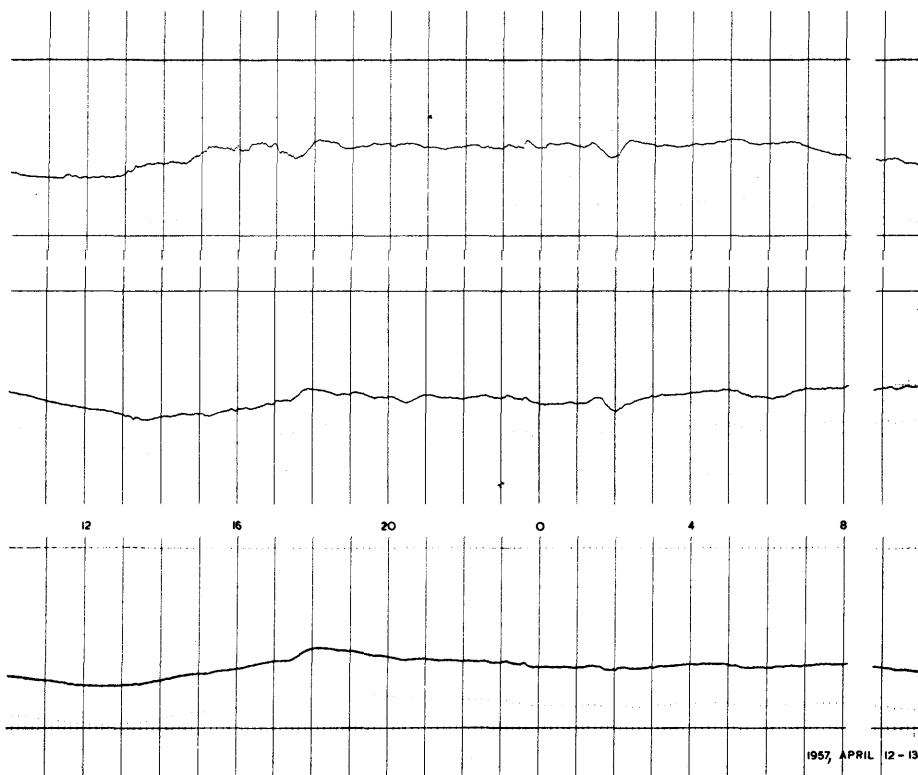


APRIL 10-11

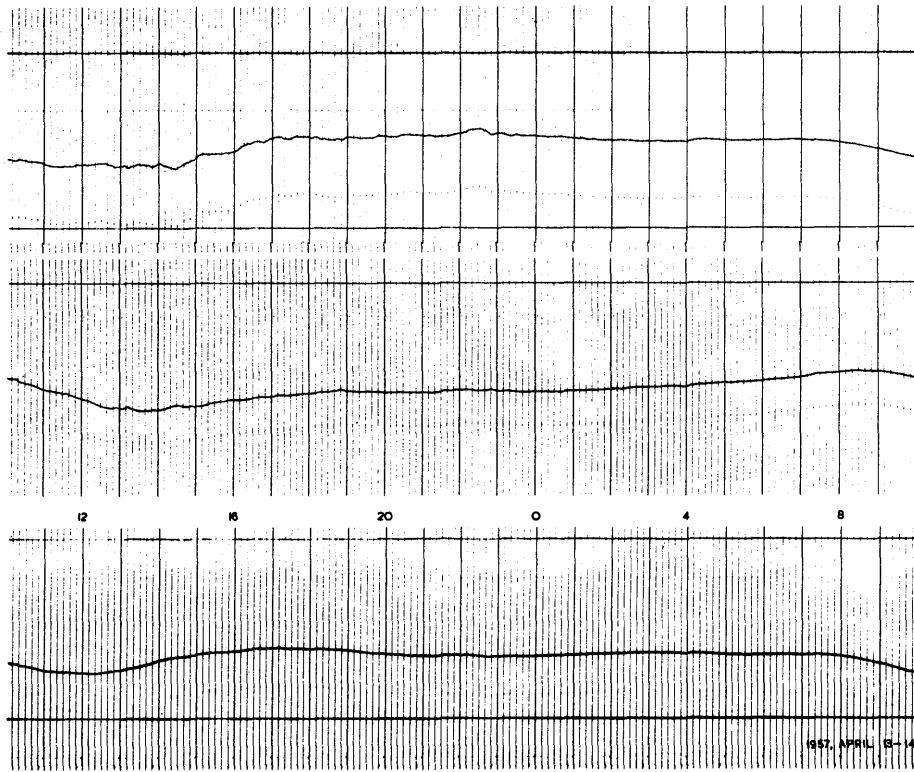
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APRIL 11-12

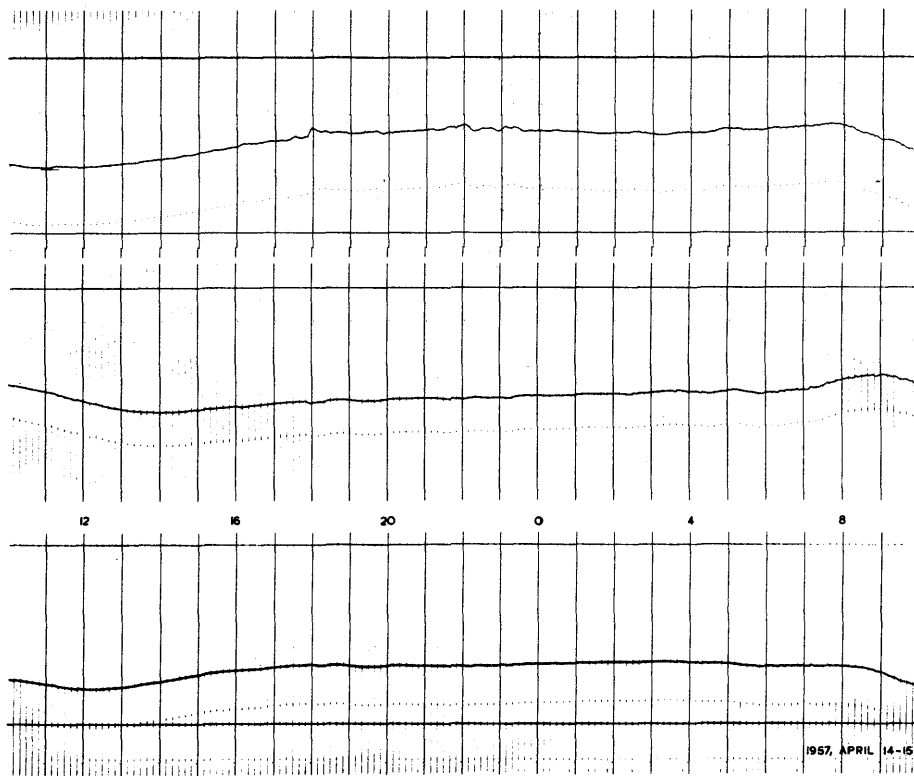


APRIL 12-13



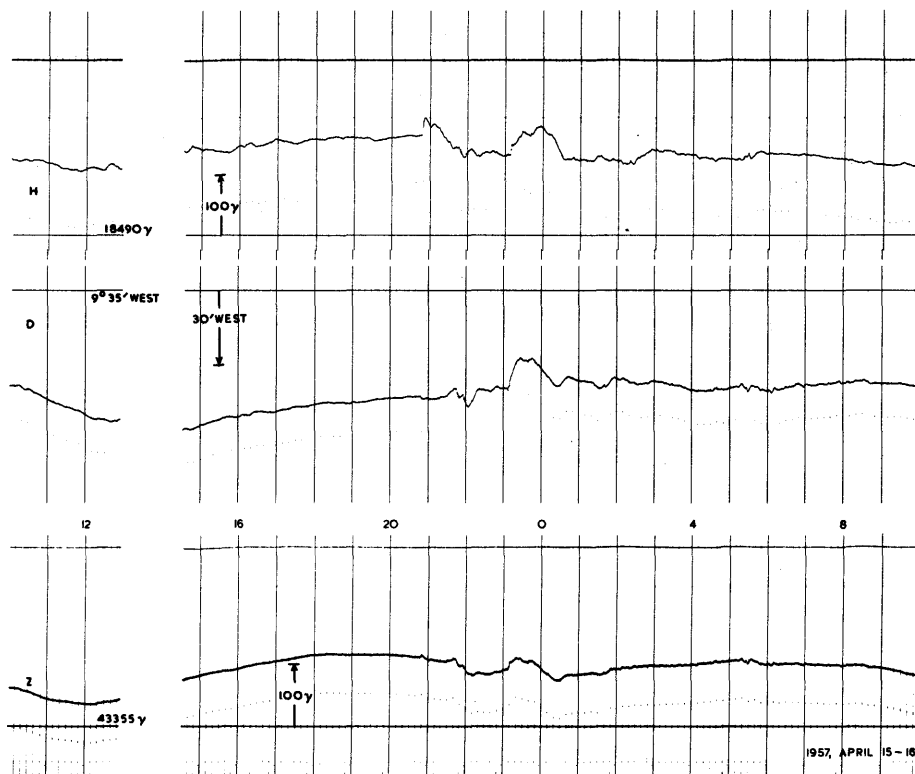
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APRIL 13-14

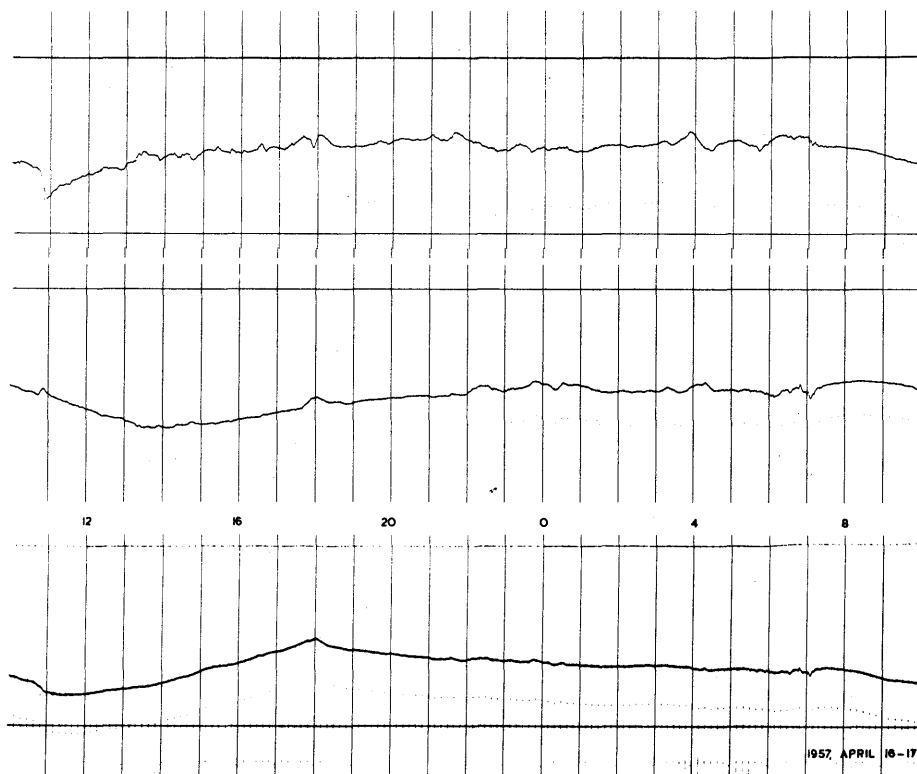


APRIL 14-15

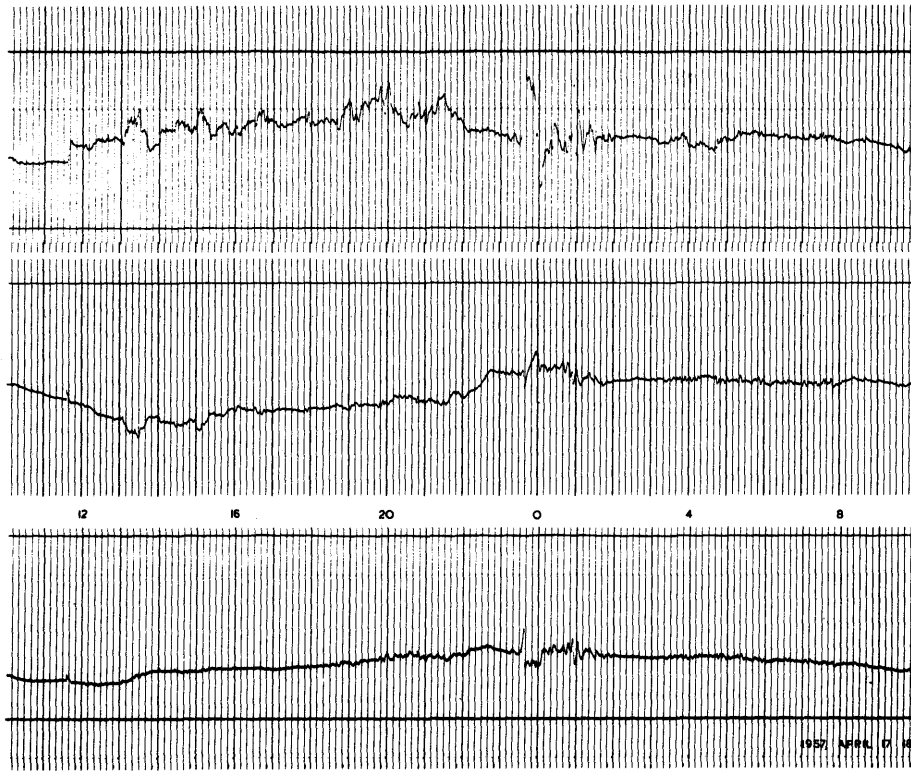
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APRIL 15-16

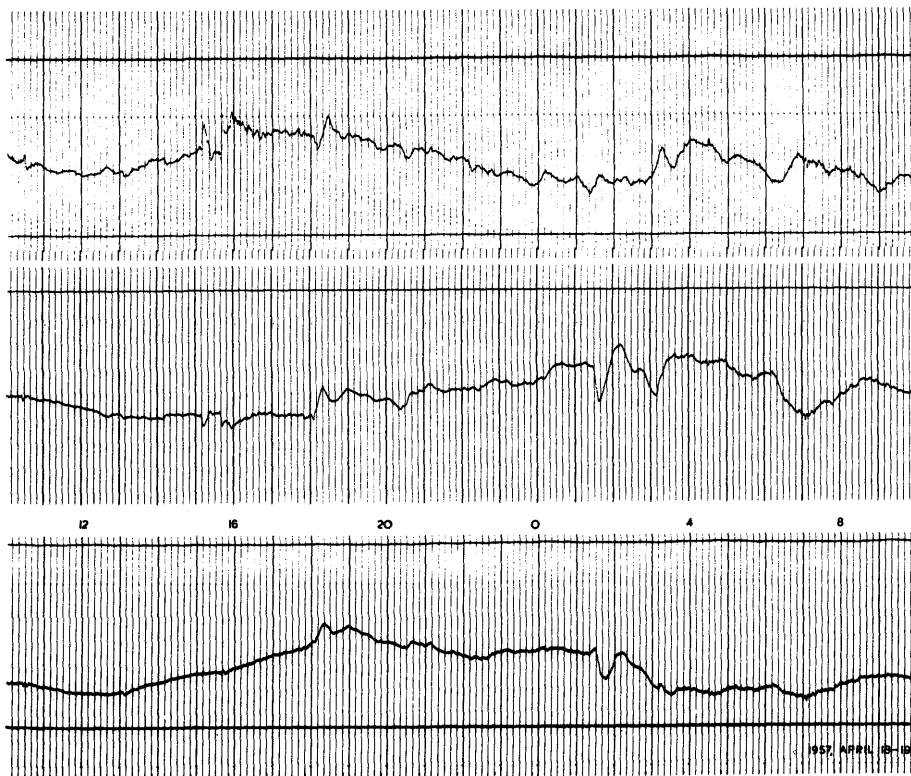


APRIL 16-17



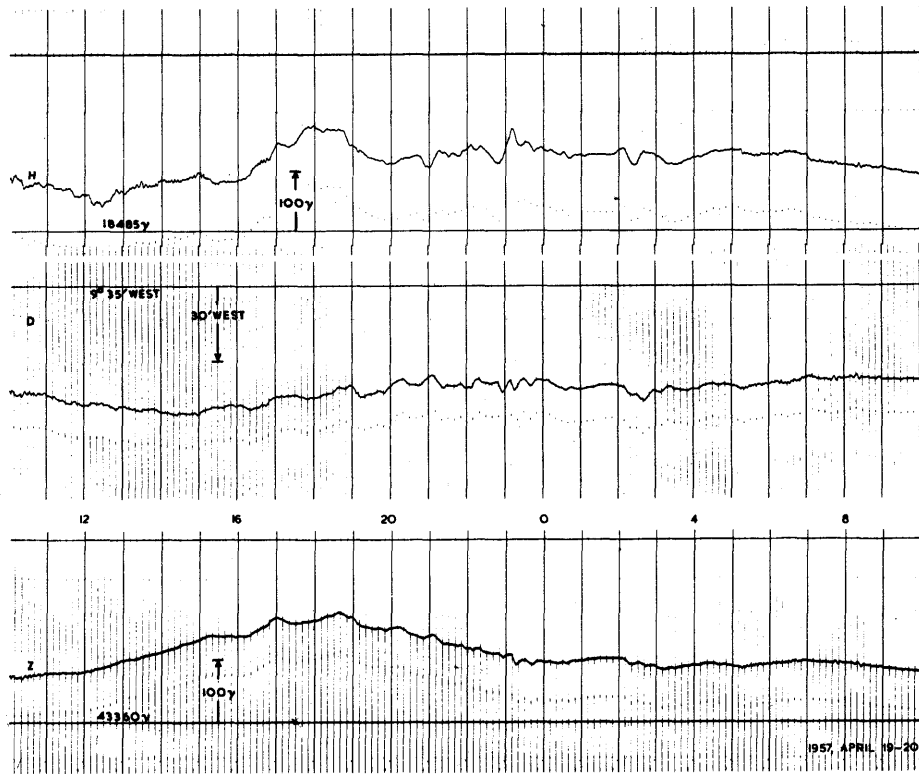
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APRIL 17-18

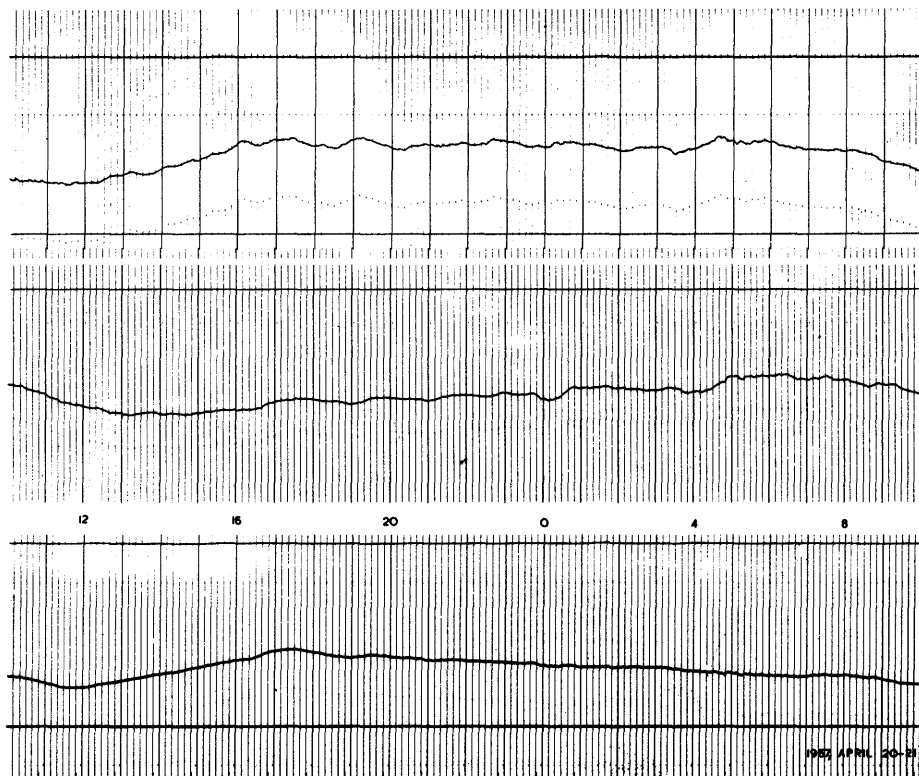


APRIL 18-19

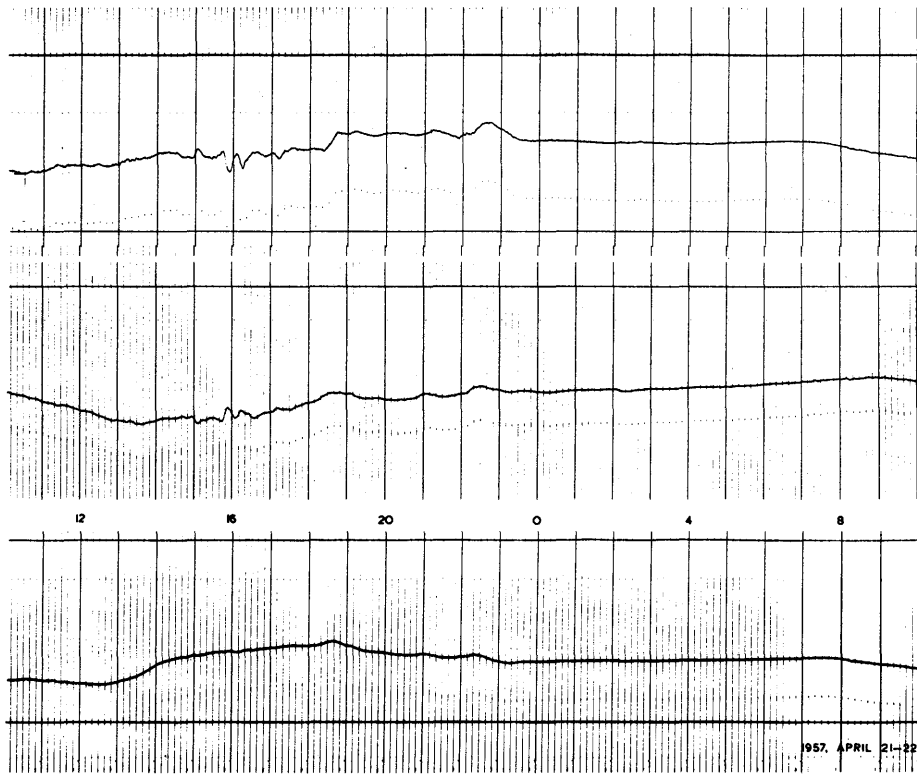
1957



APRIL 19-20

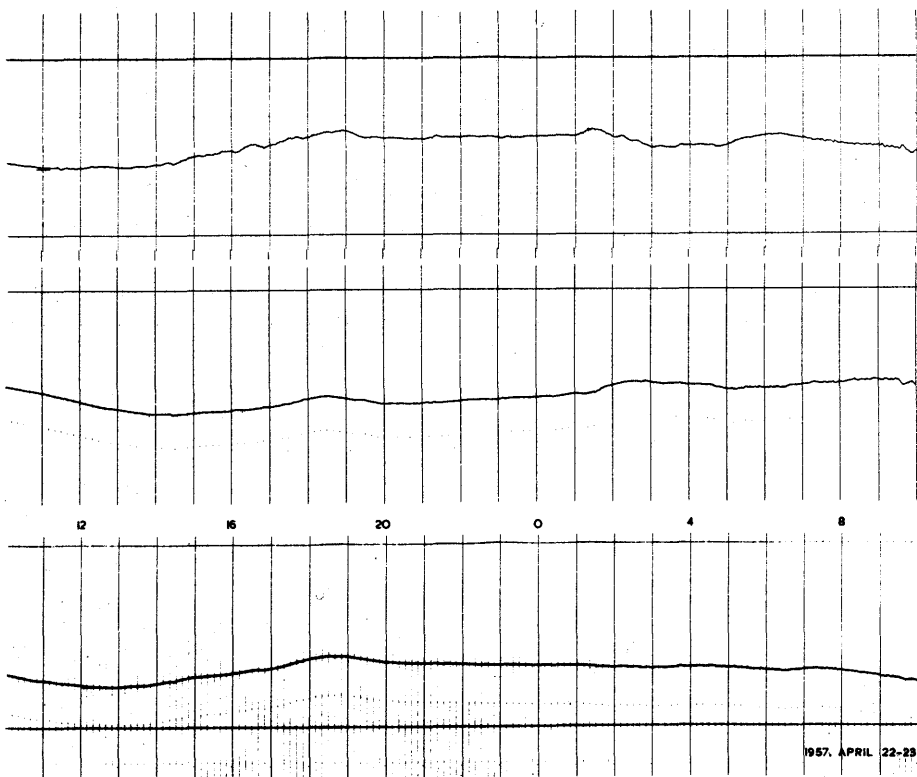


APRIL 20-21



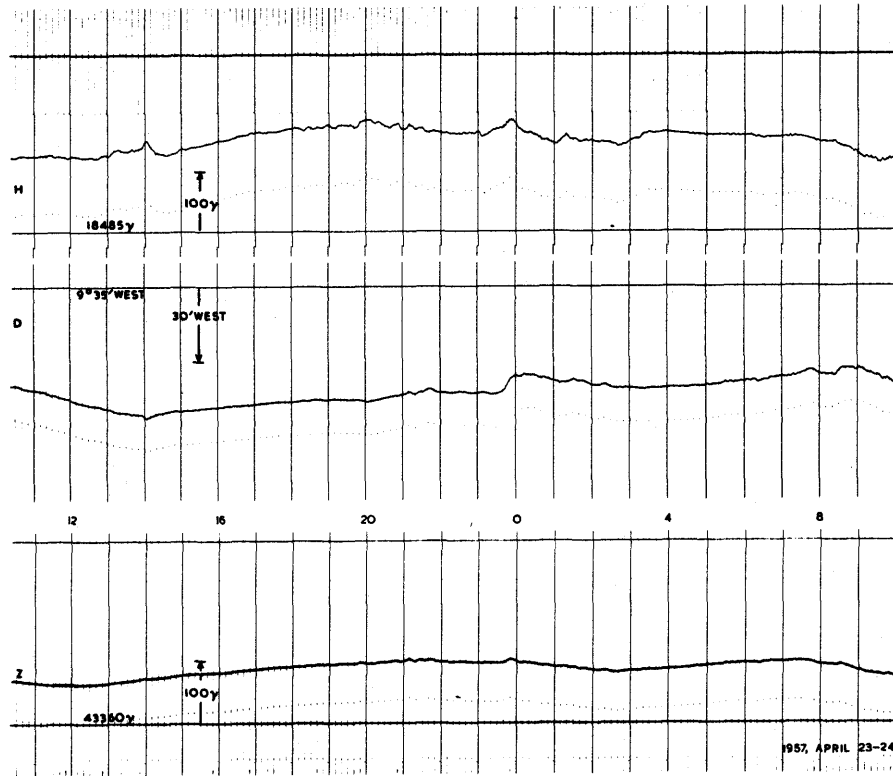
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APRIL 21-22

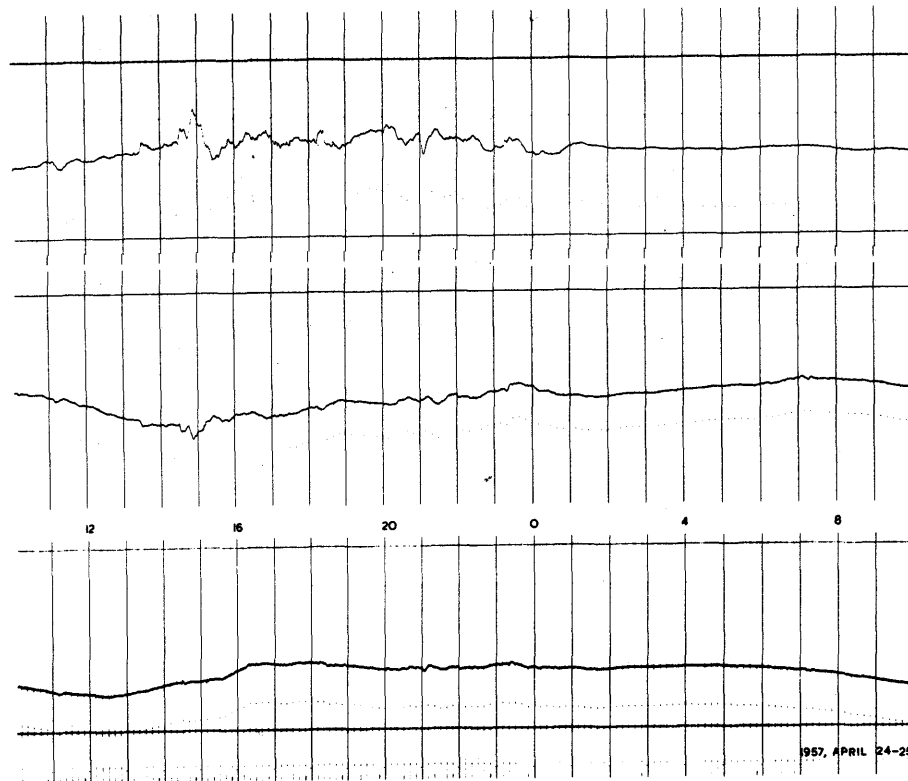


APRIL 22-23

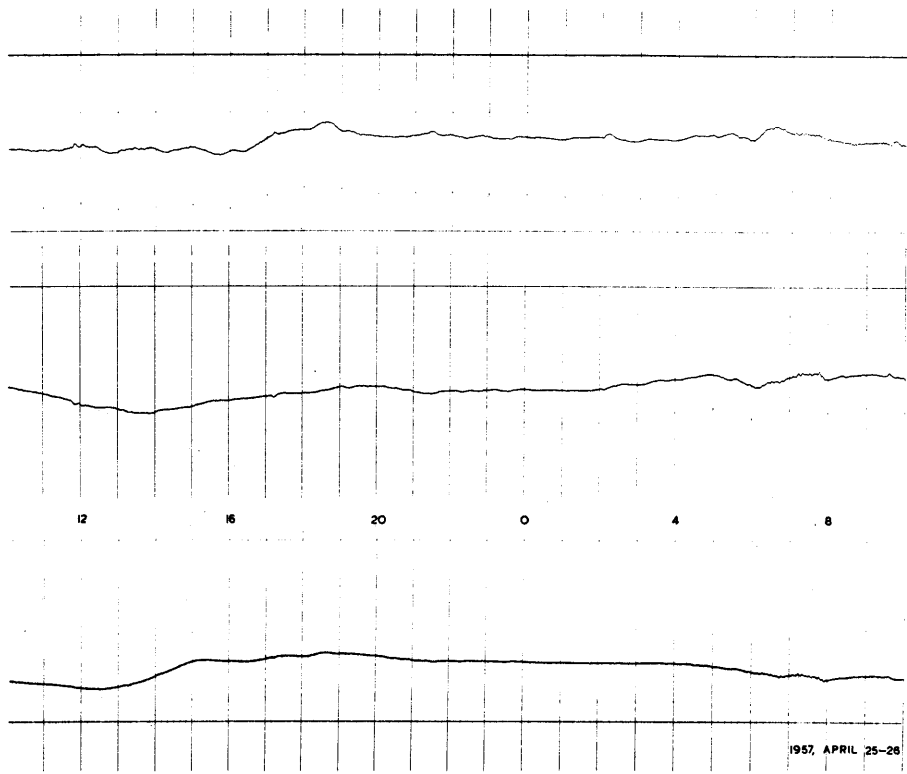
1957



APRIL 23-24

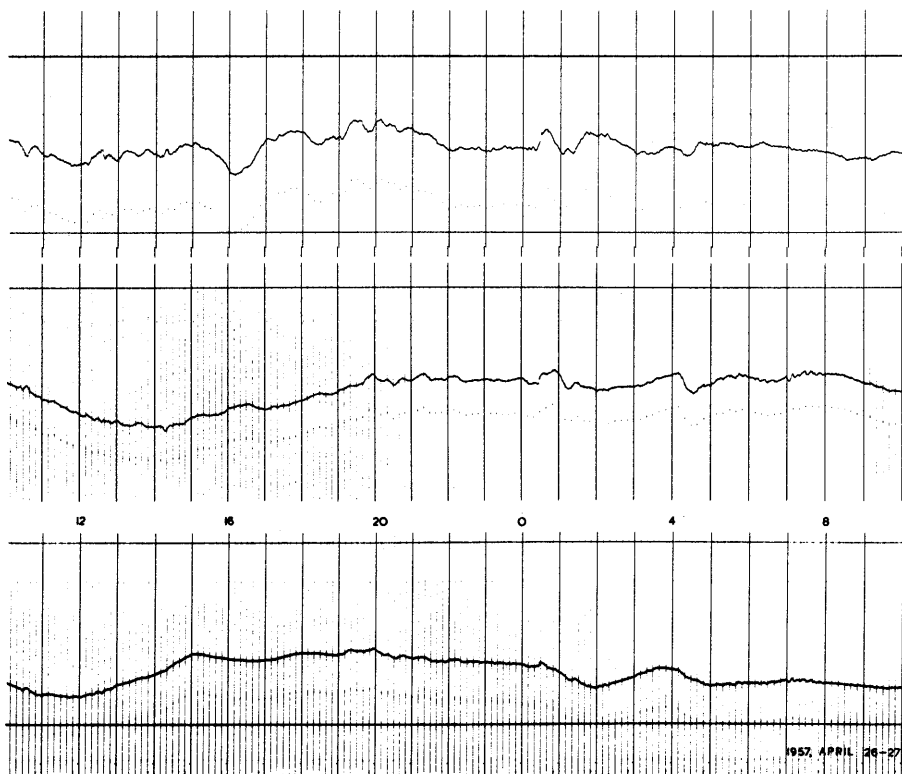


APRIL 24-25



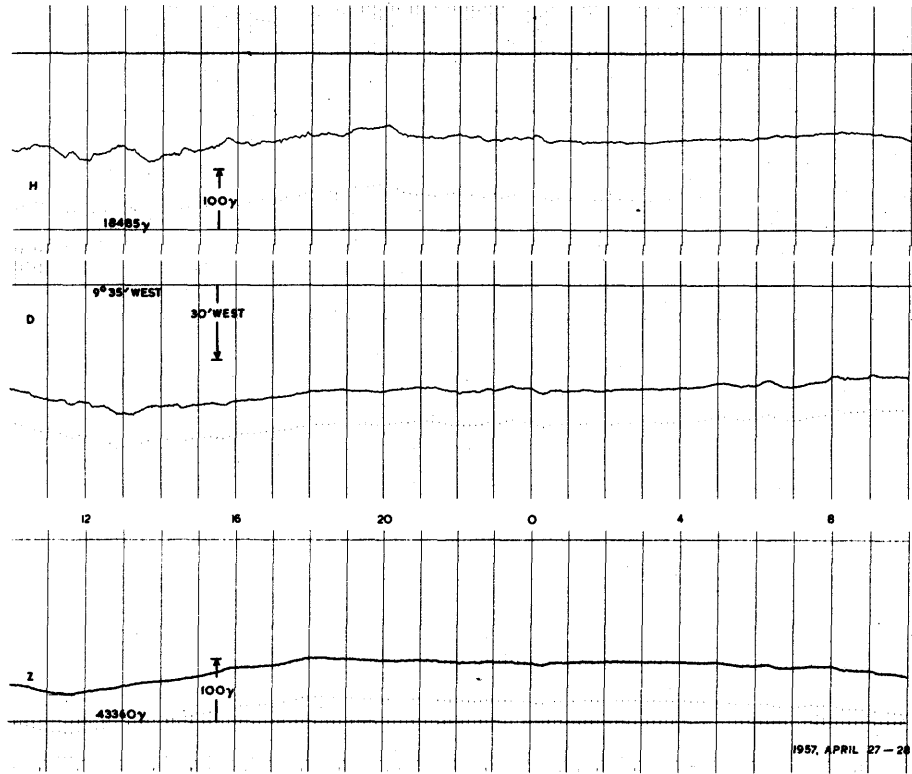
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APRIL 25-26

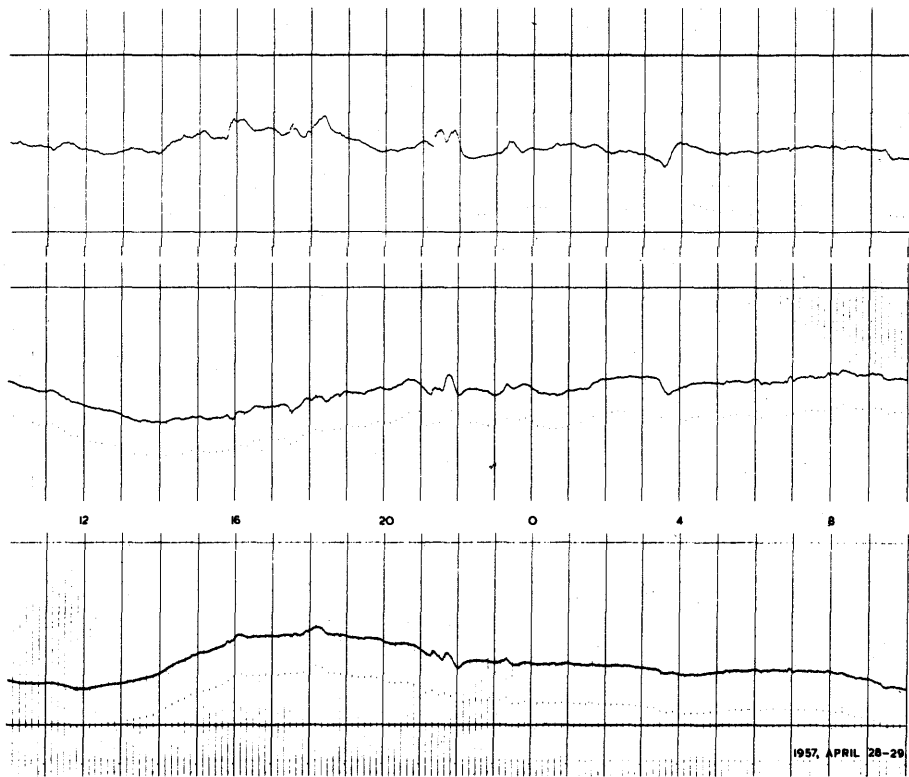


APRIL 26-27

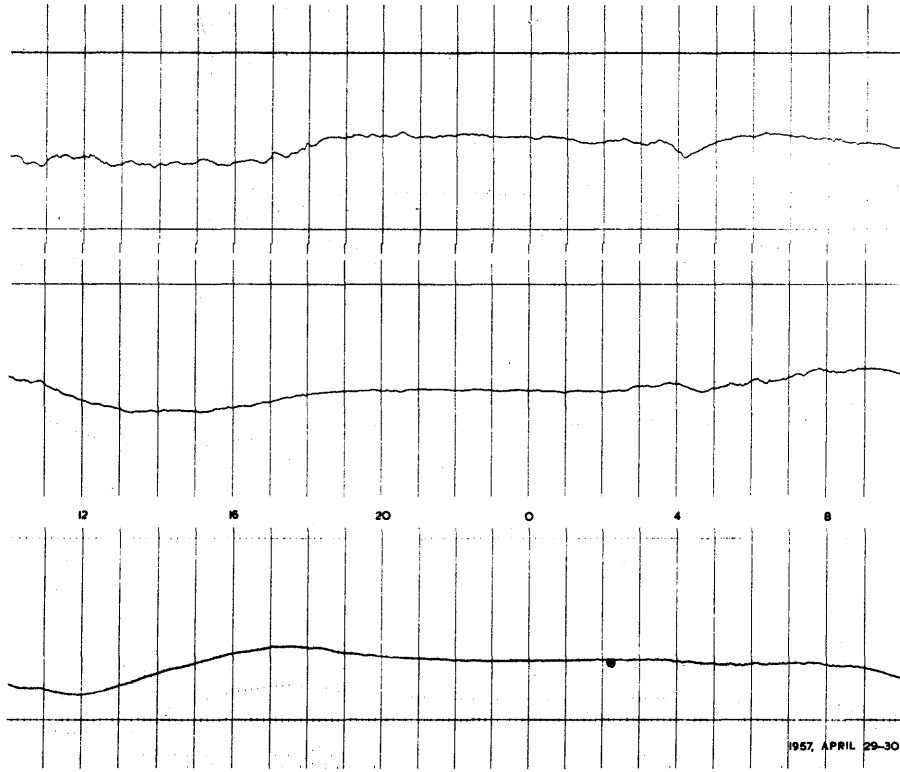
1957



APRIL 27-28

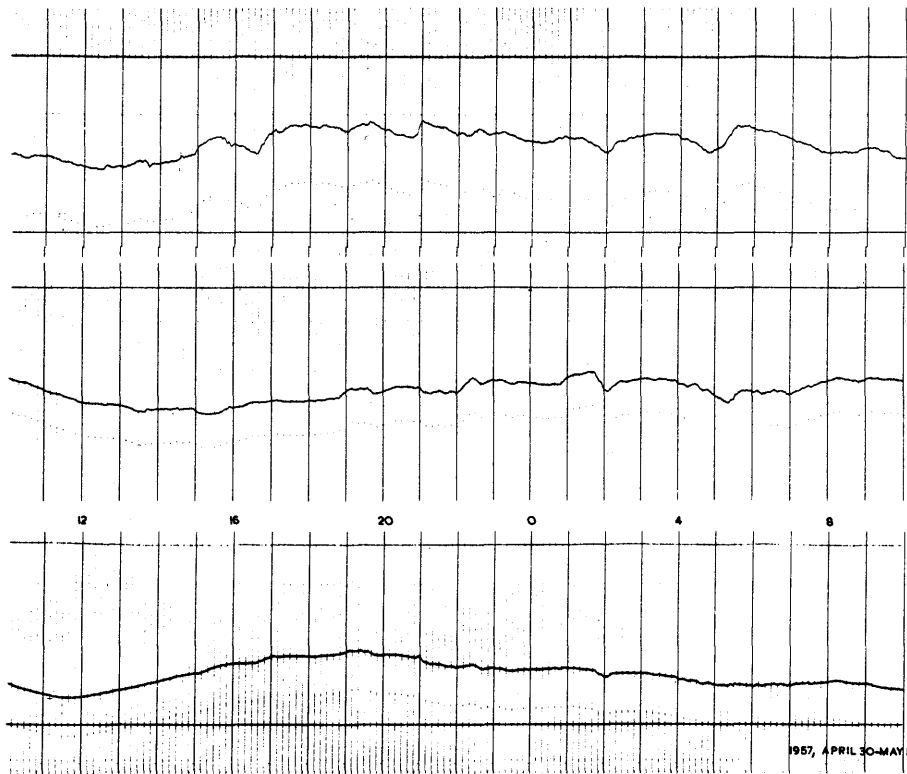


APRIL 28-29



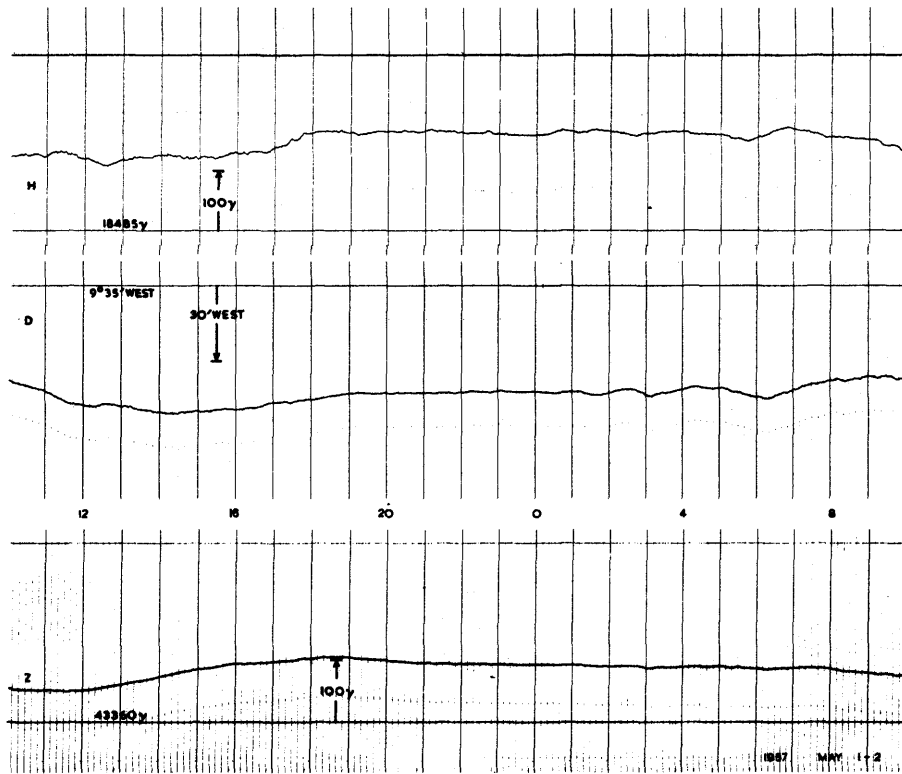
1957

APRIL 29-30

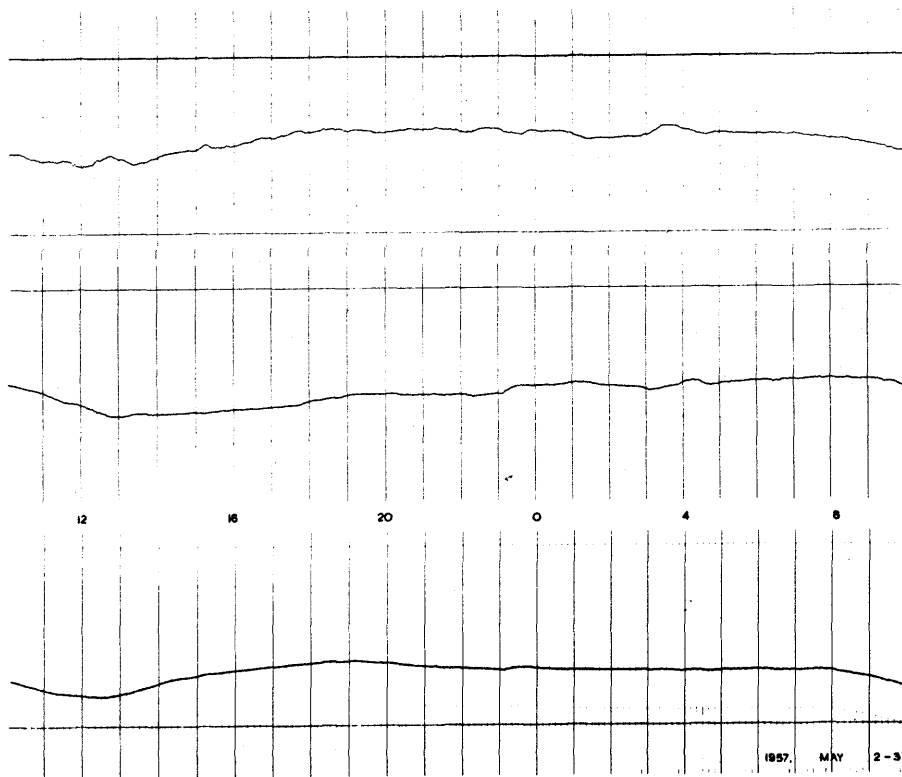


APR. 30 - MAY 1

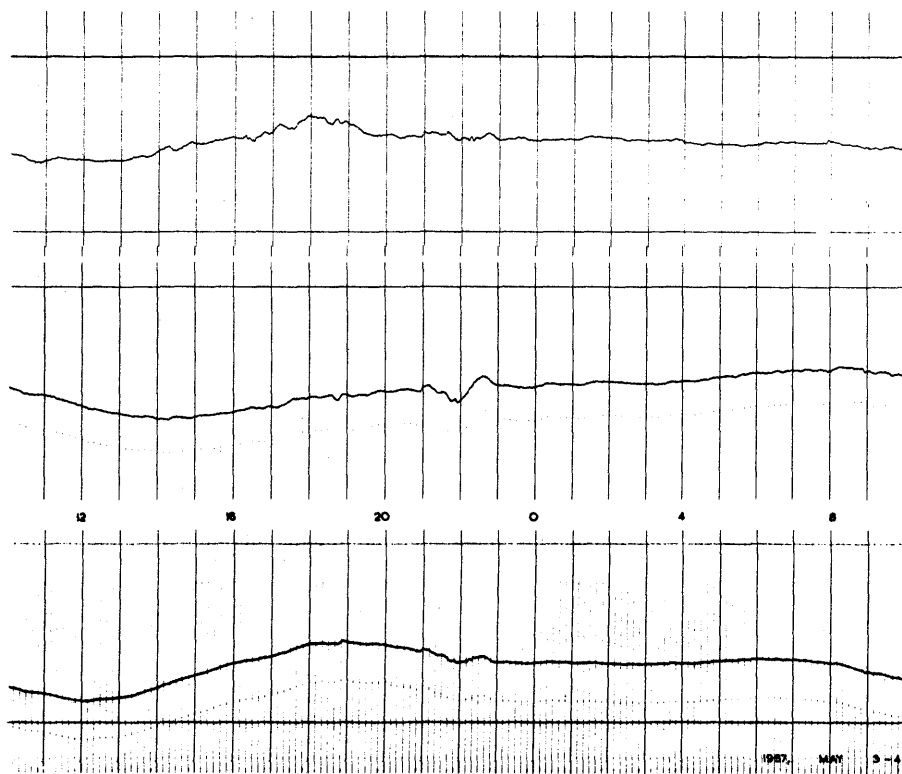
1957



MAY 1-2

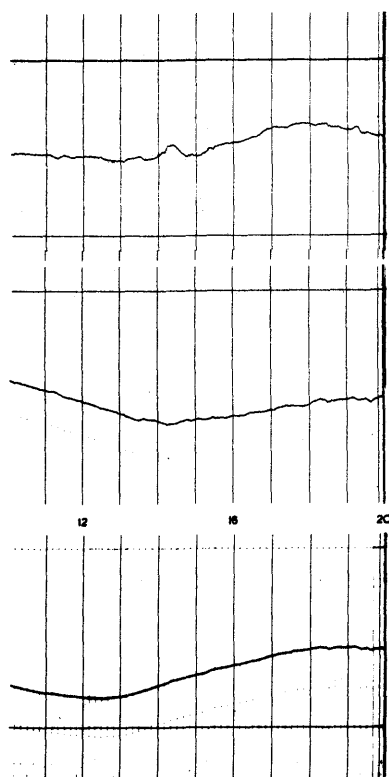


MAY 2-3



1957

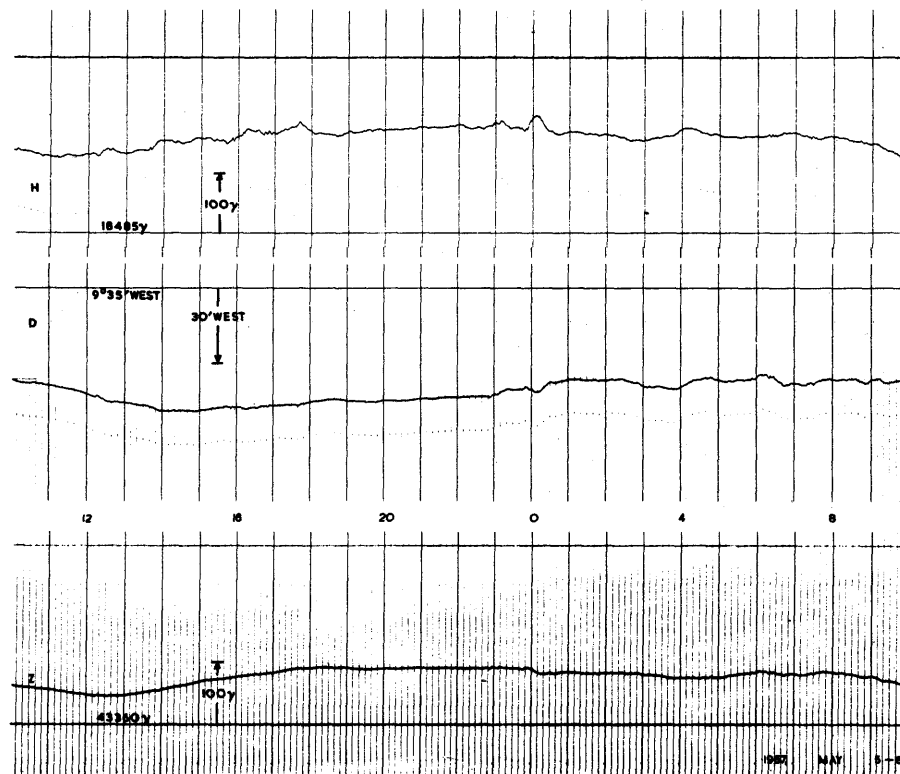
MAY 3-4



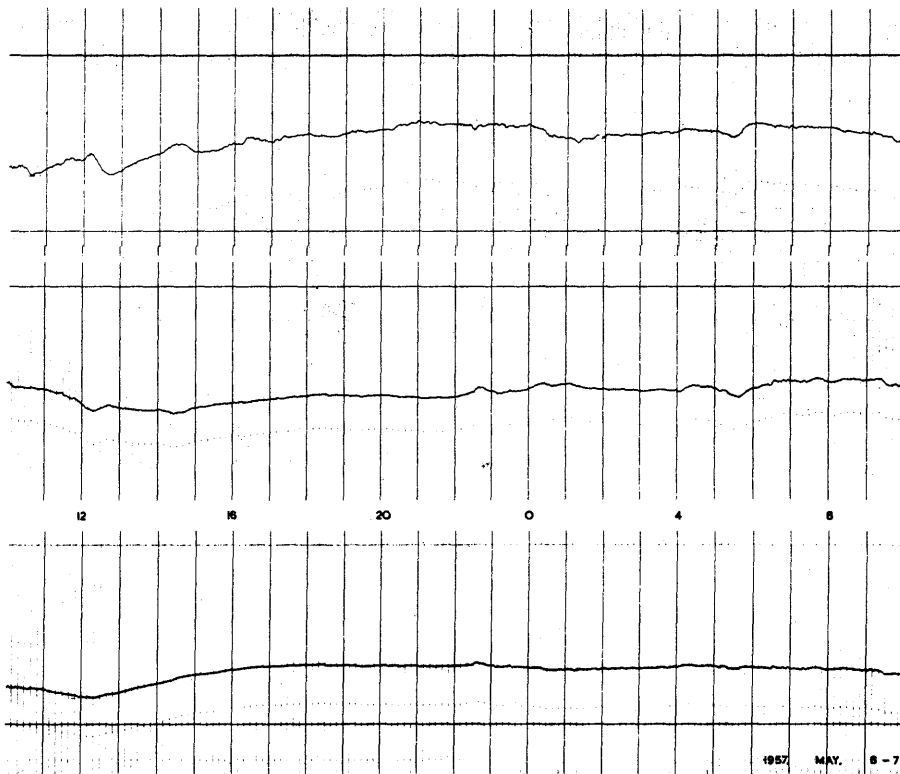
1957, MAY 4-5

MAY 4-5

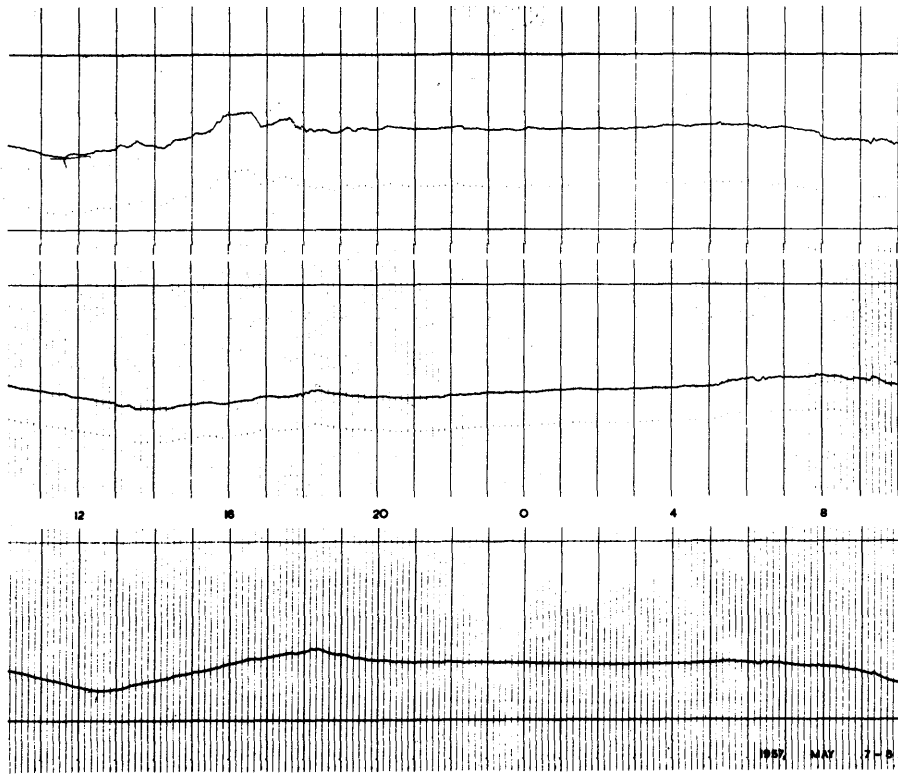
1957



MAY 5-6

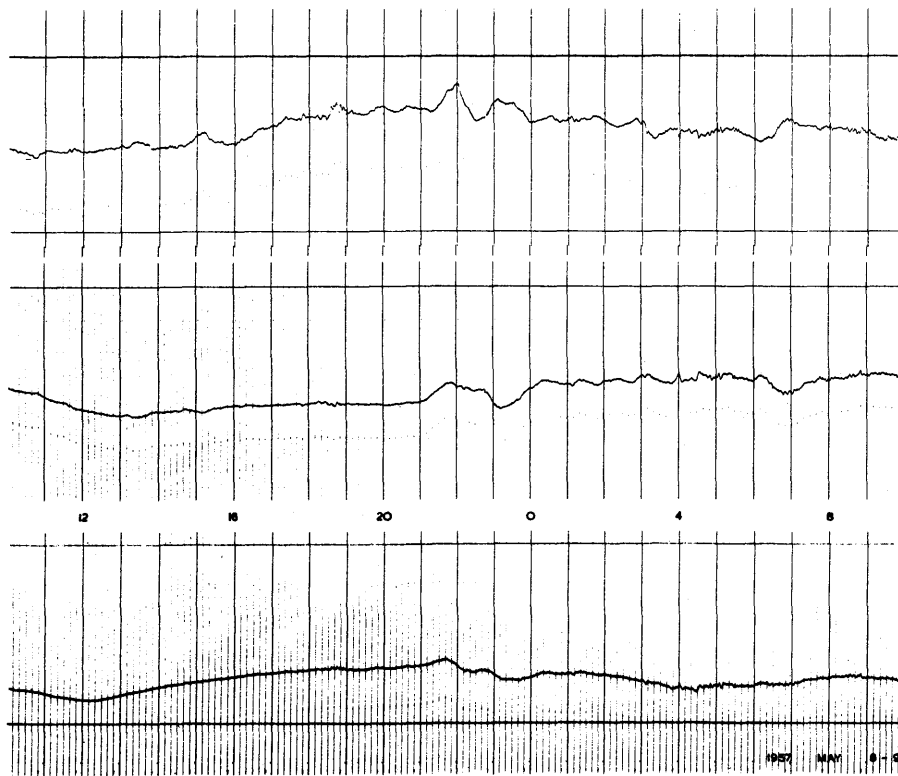


MAY 6-7



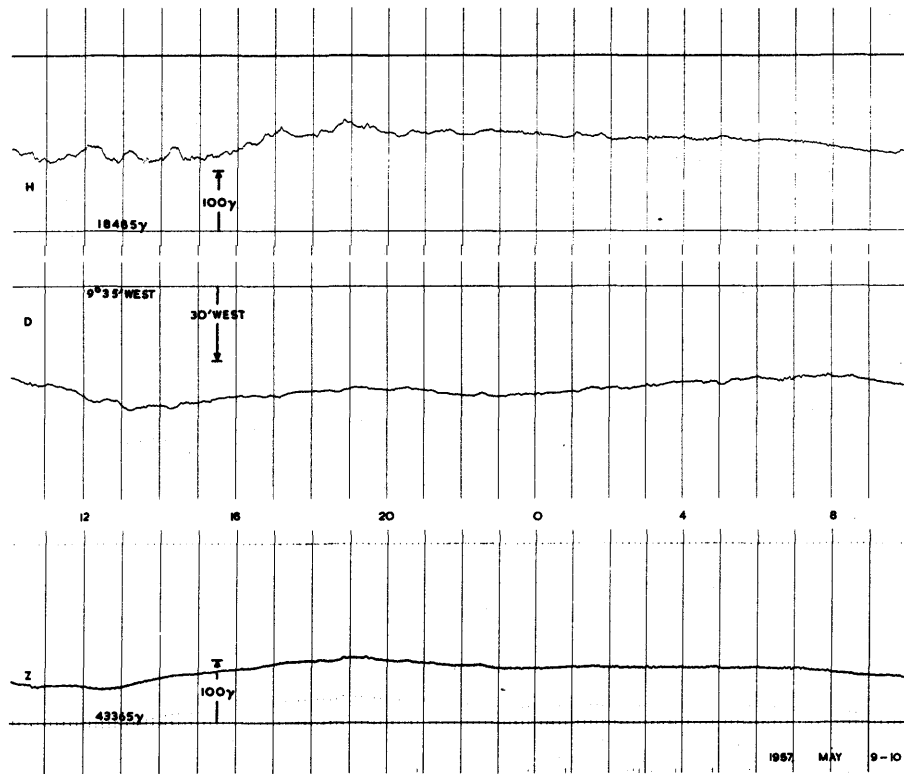
1957

MAY 7-8

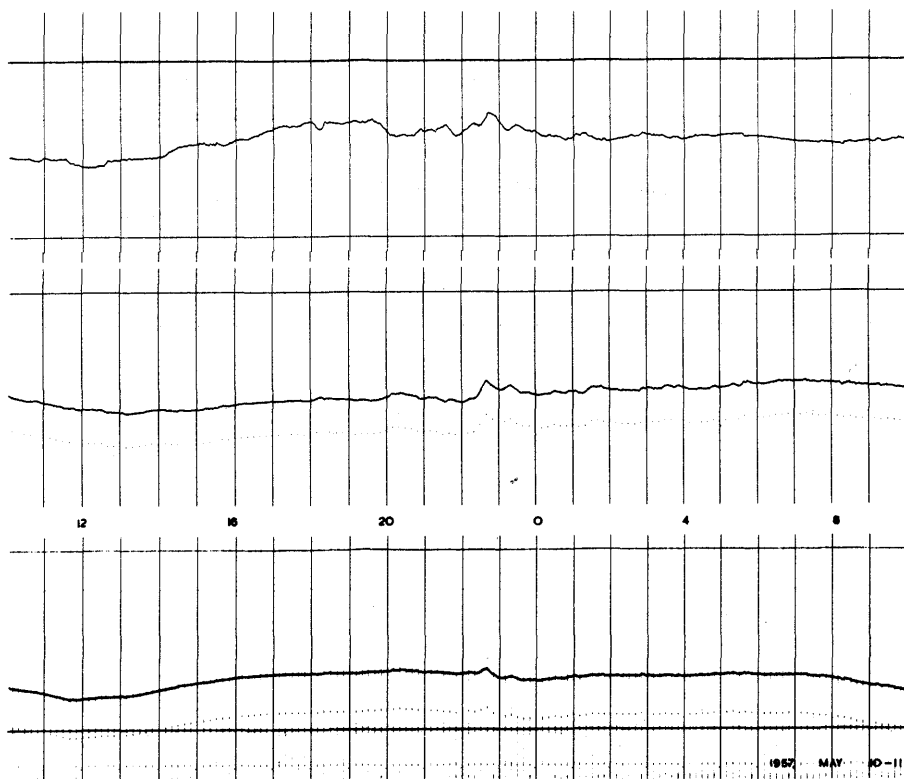


MAY 8-9

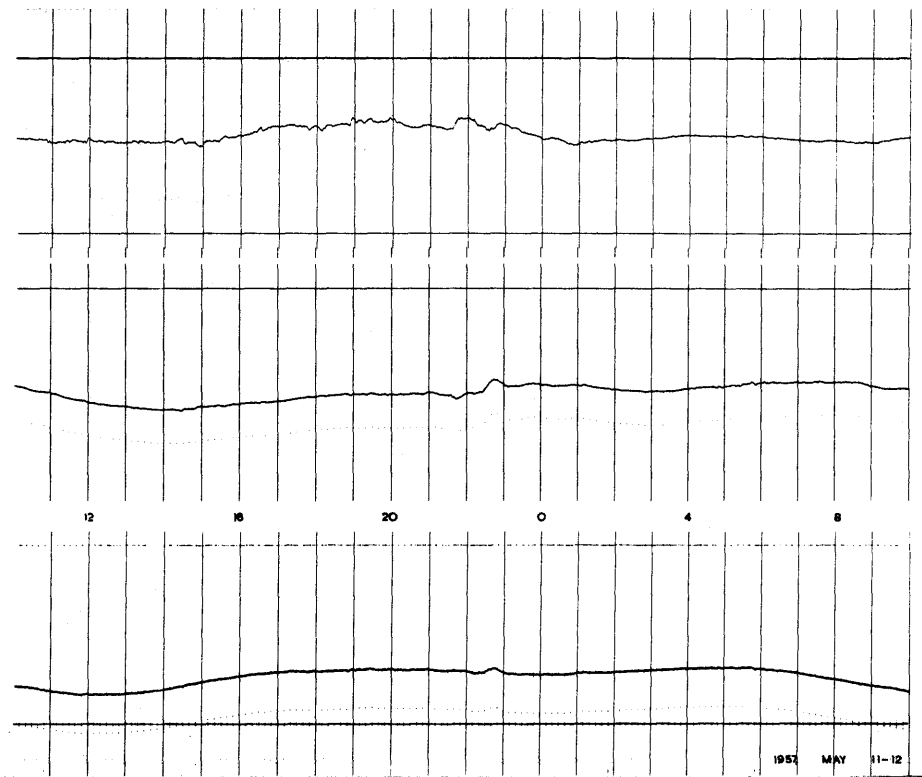
1957



MAY 9-10

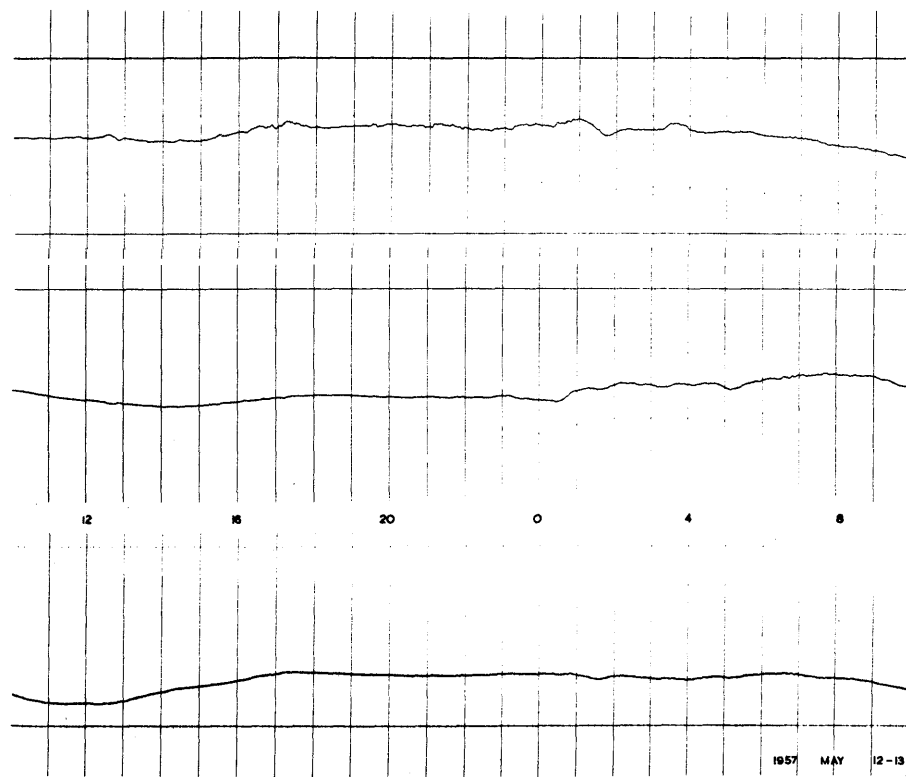


MAY 10-11



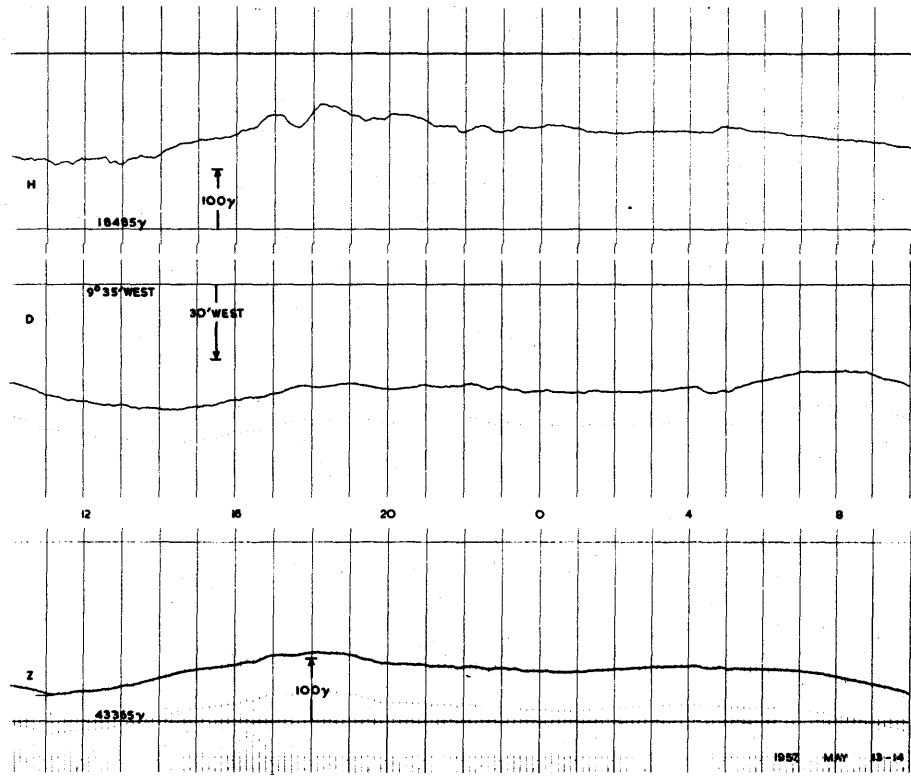
1957

MAY 11-12

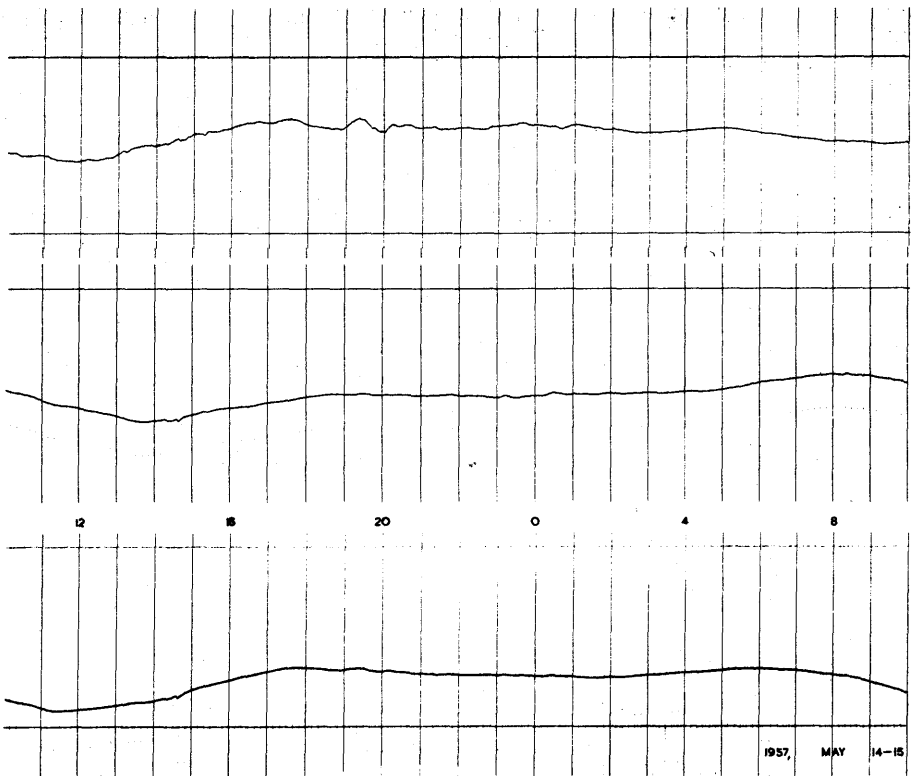


MAY 12-13

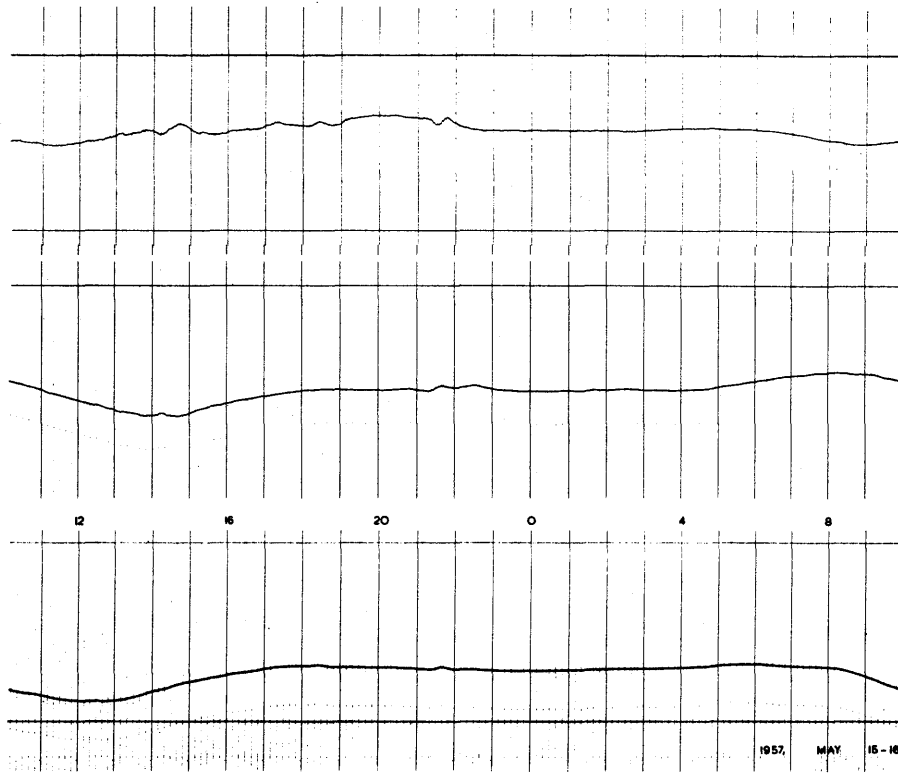
1957



MAY 13-14

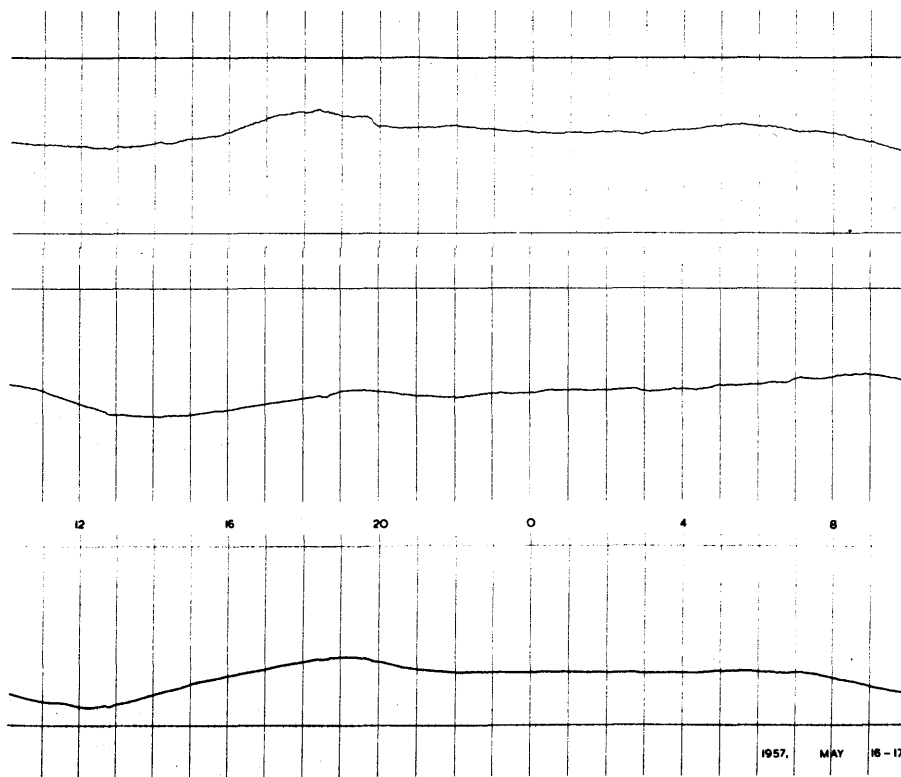


MAY 14-15



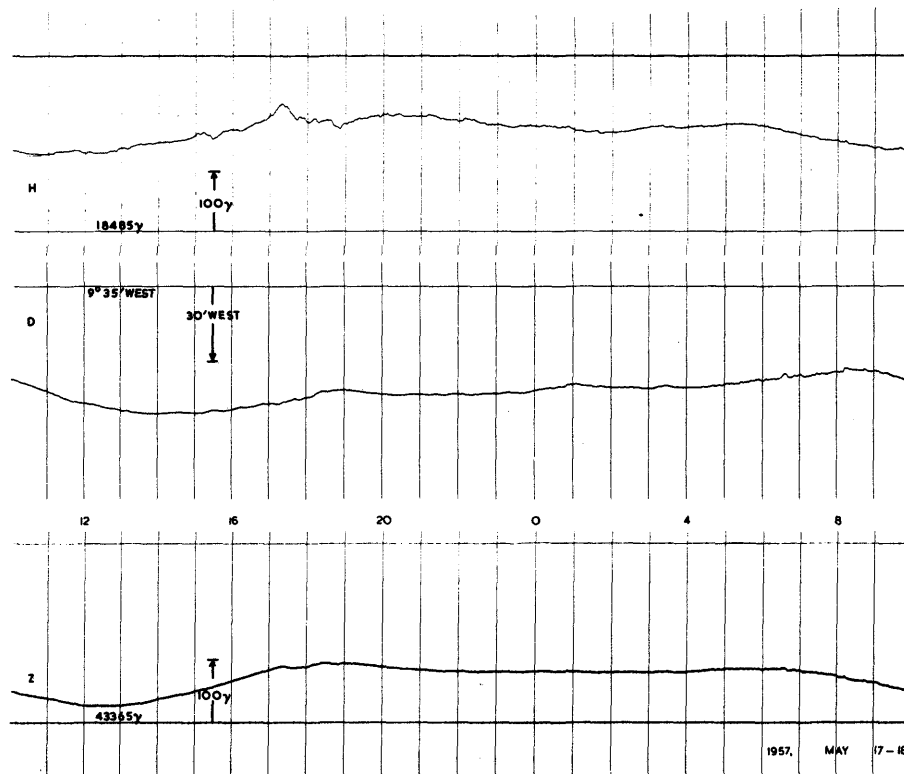
1957

MAY 15-16



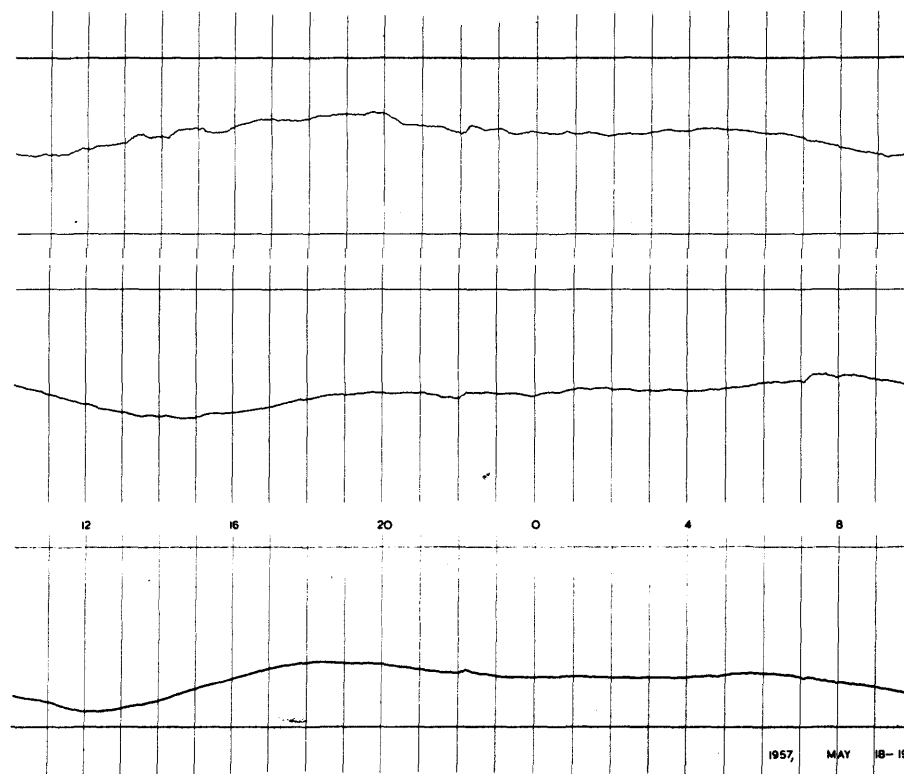
MAY 16-17

1957



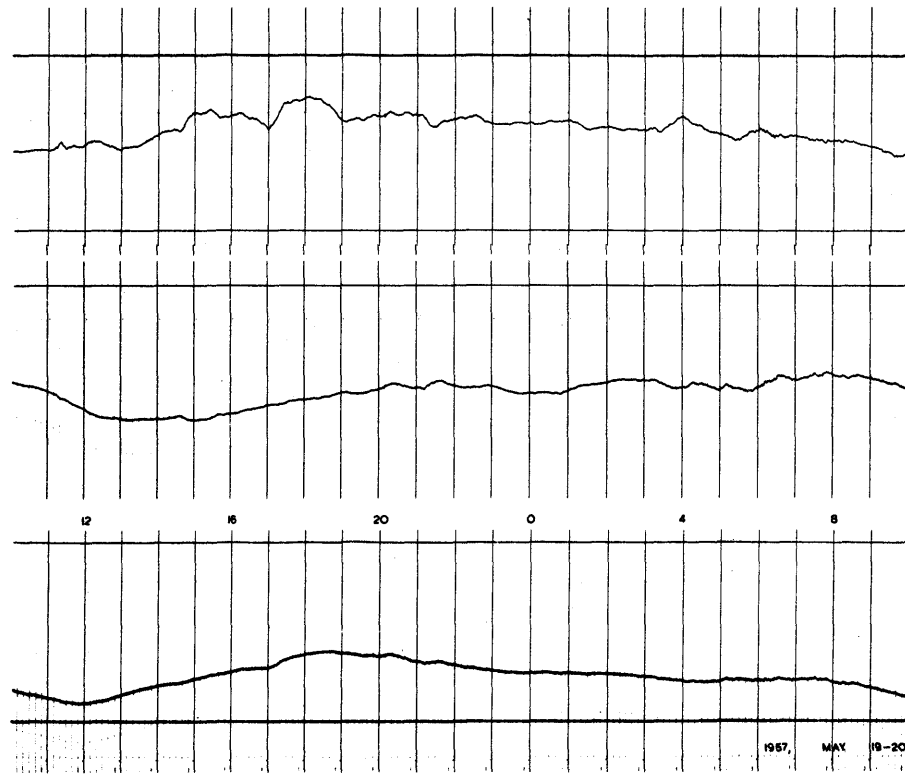
MAY 17-18

1957, MAY 17-18



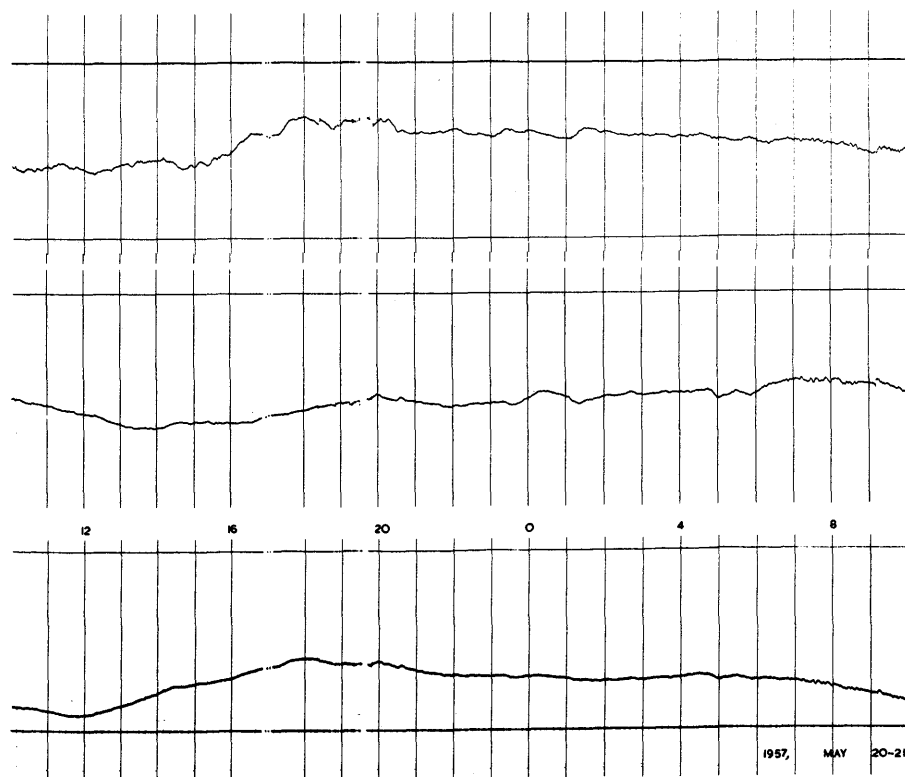
MAY 18-19

1957, MAY 18-19



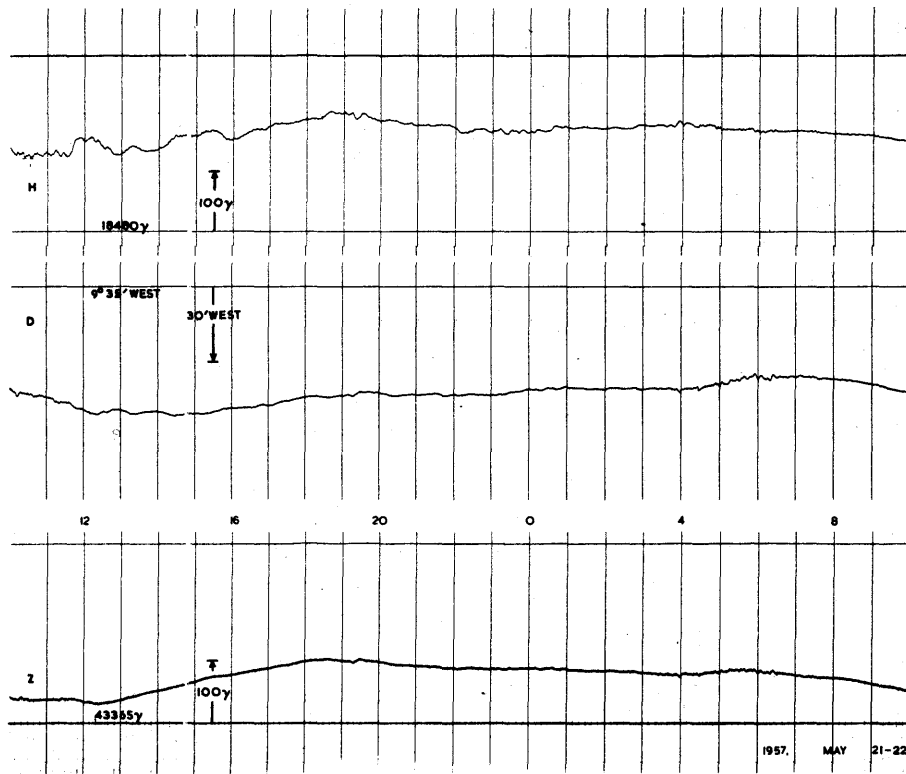
1957

MAY 19-20

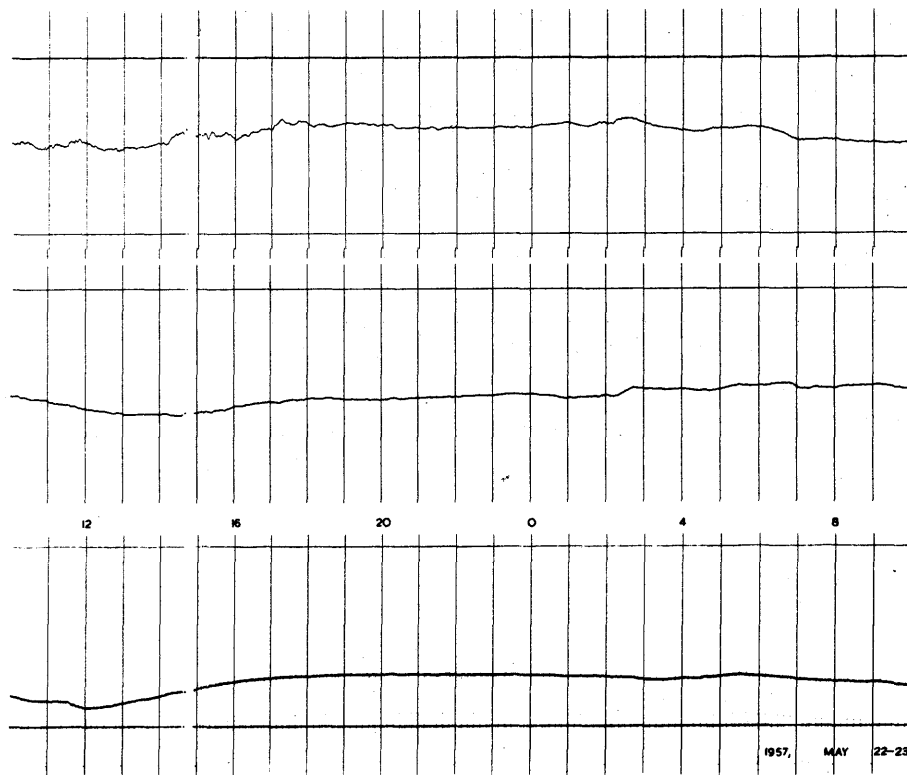


MAY 20-21

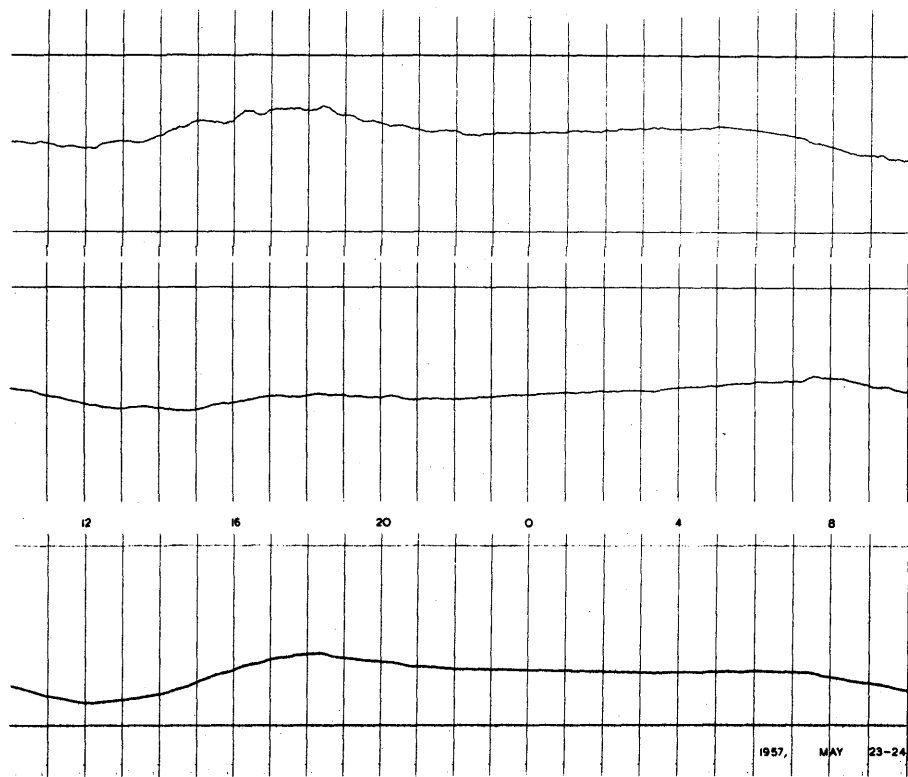
1957



MAY 21-22

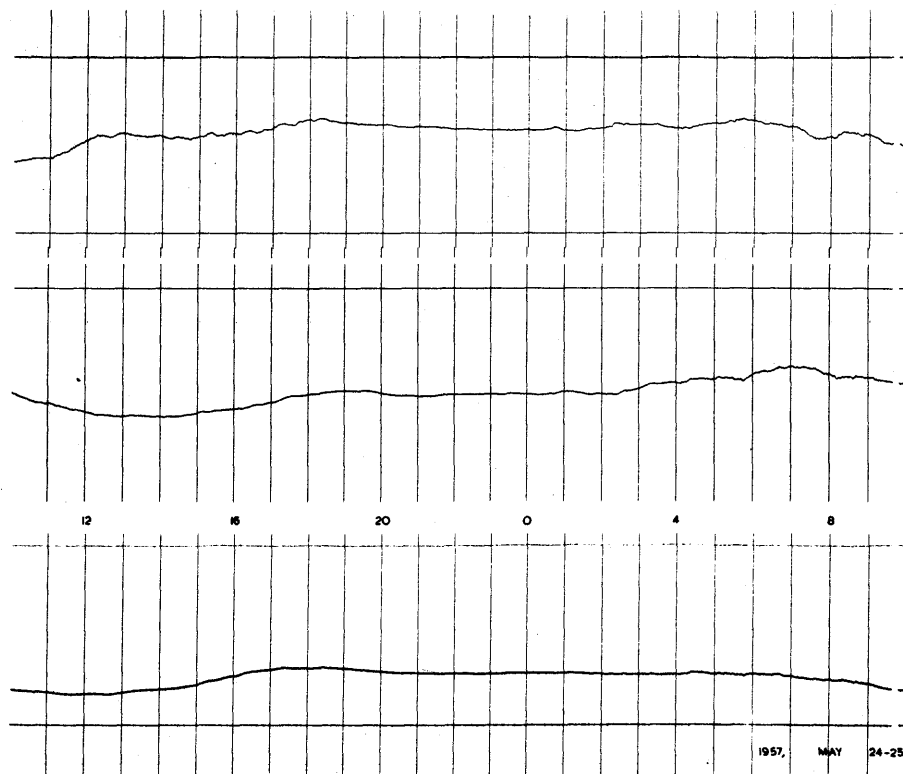


MAY 22-23



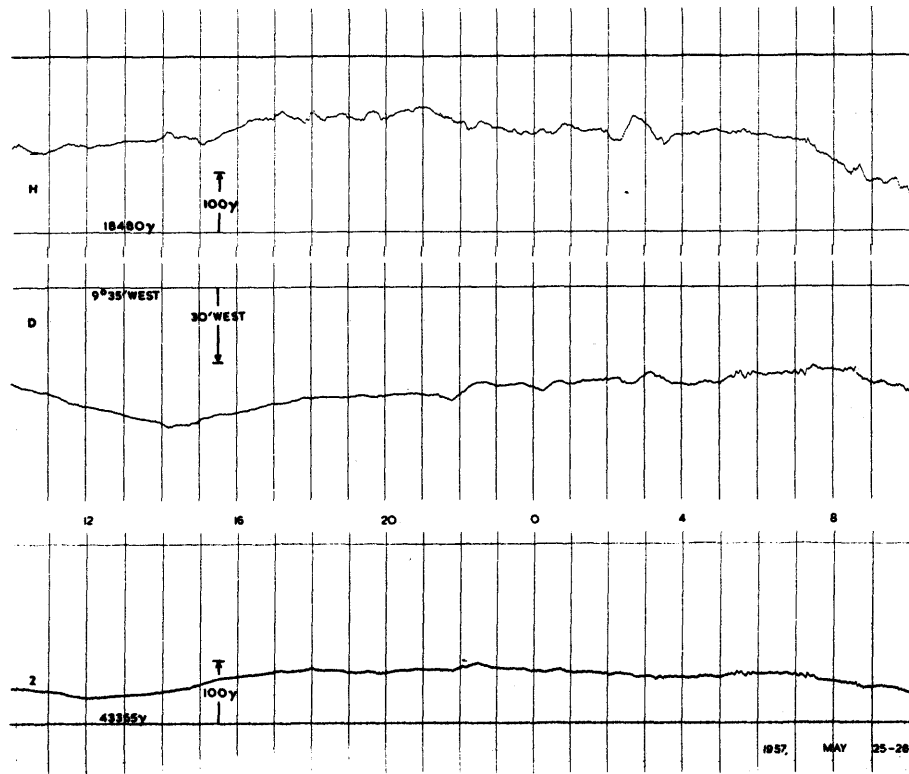
1957

MAY 23-24

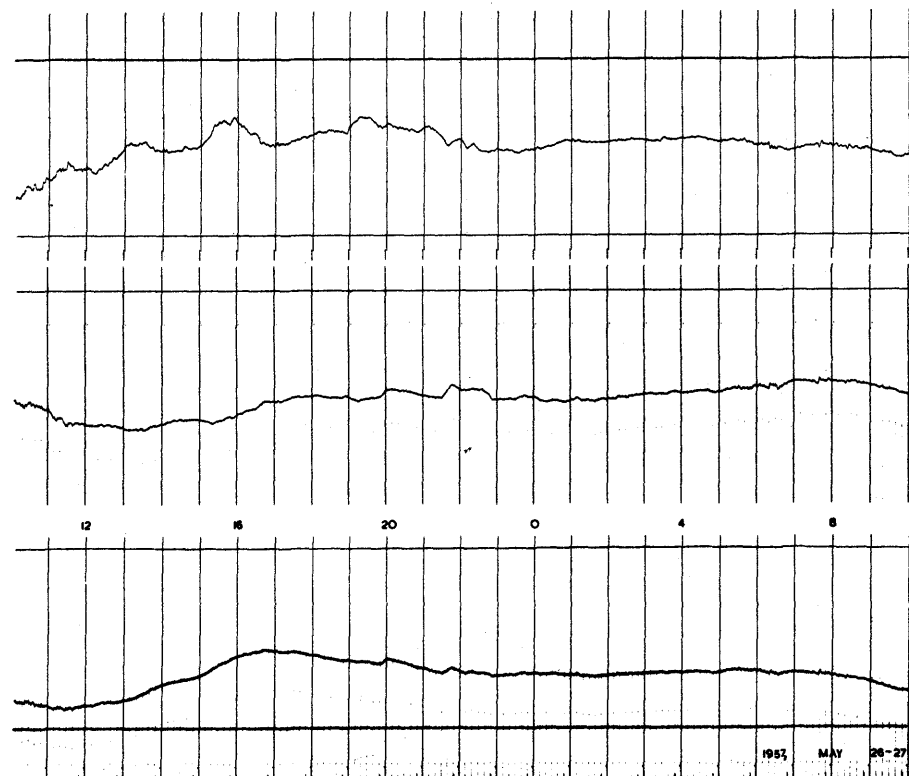


MAY 24-25

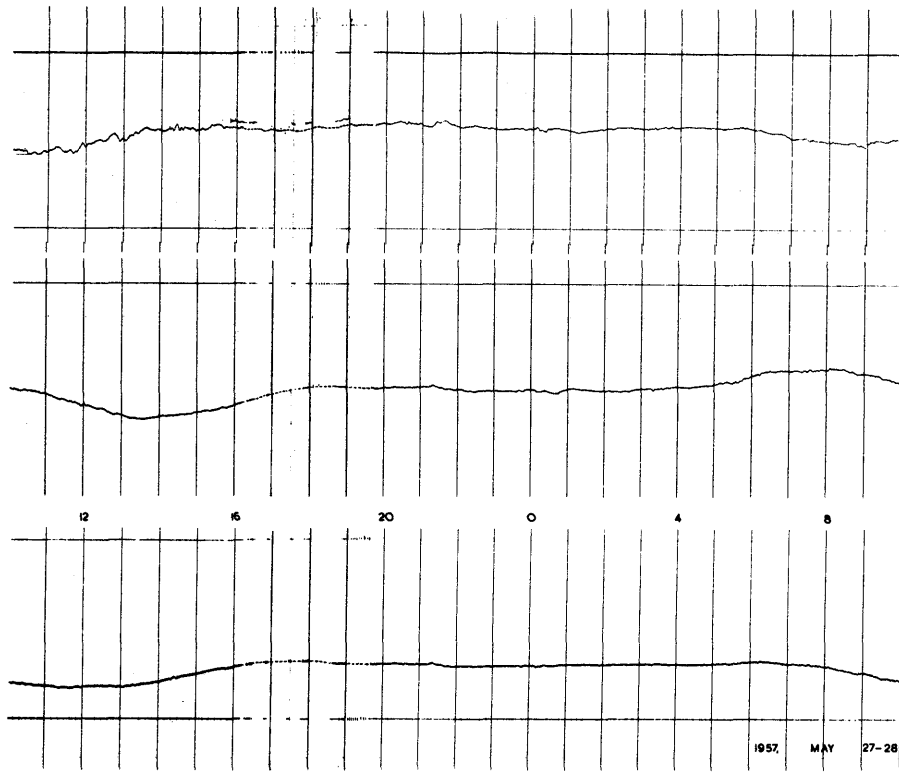
1957



MAY 25-26

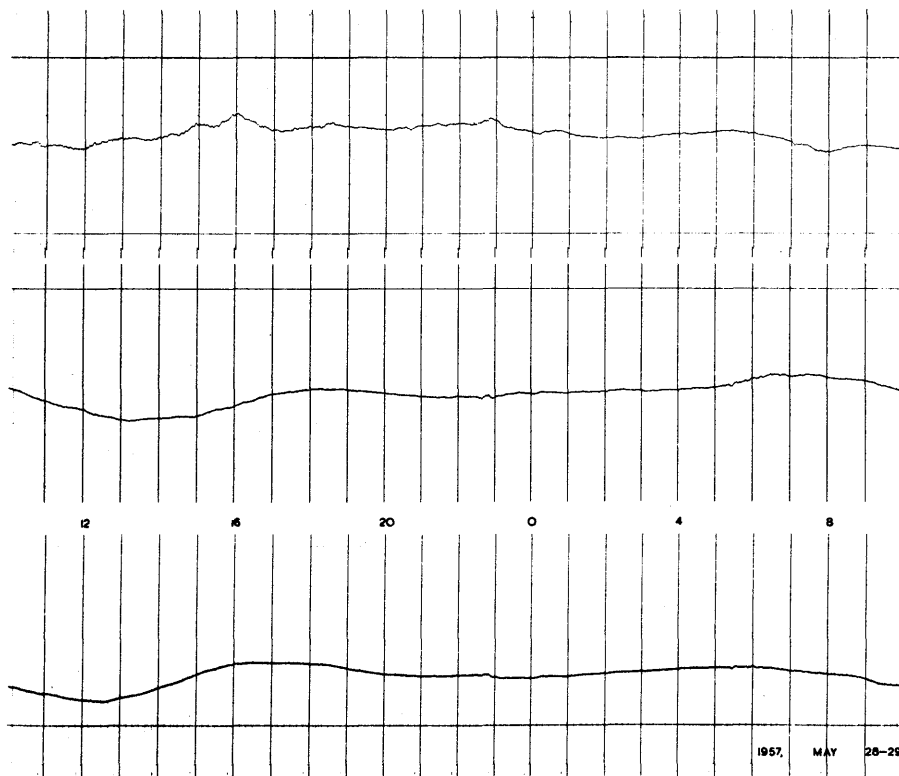


MAY 26-27



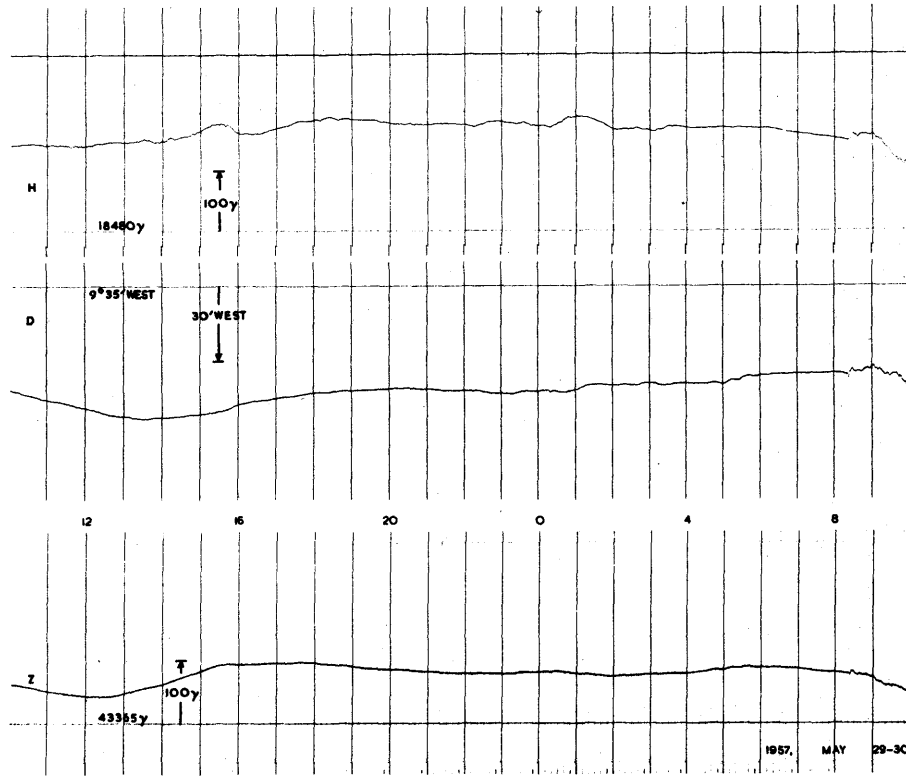
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MAY 27-28

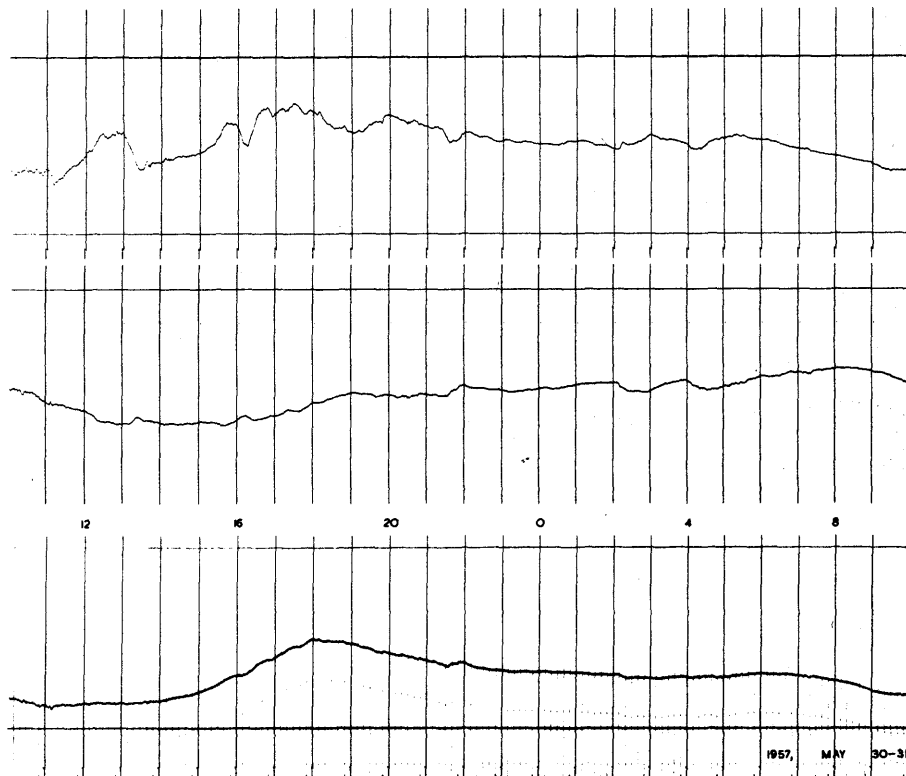


MAY 28-29

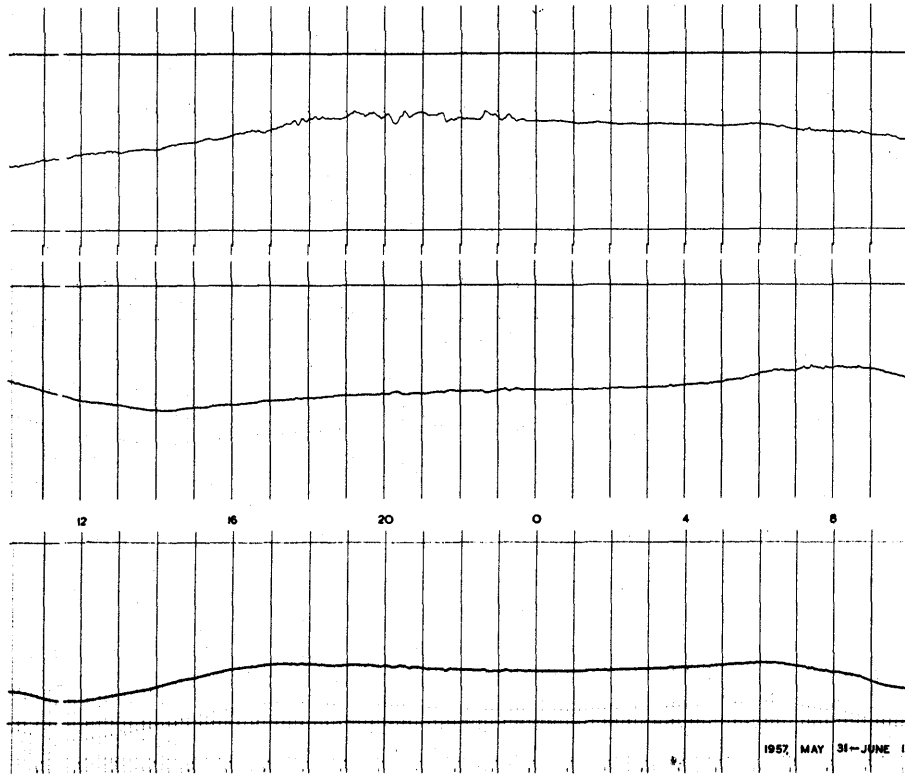
1957



MAY 29-30

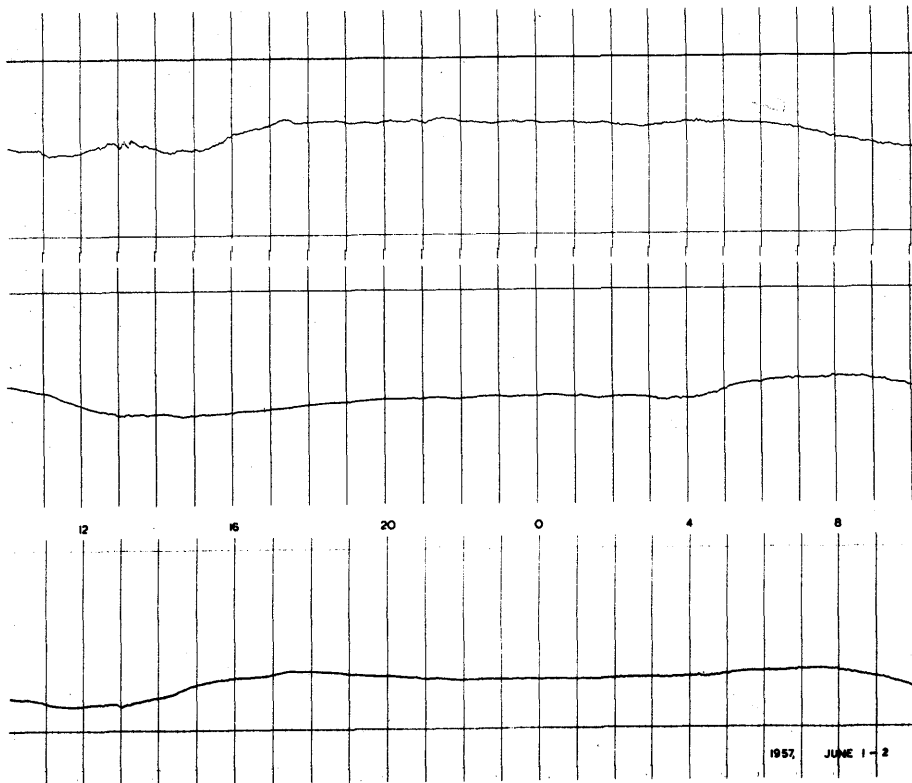


MAY 30-31



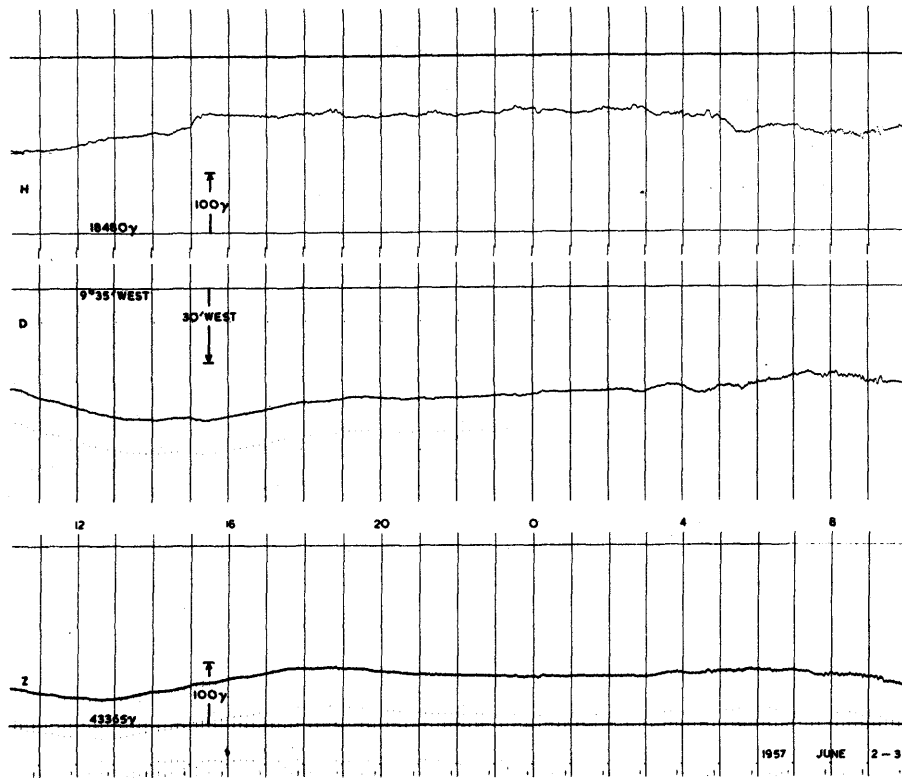
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MAY 31-JUNE 1

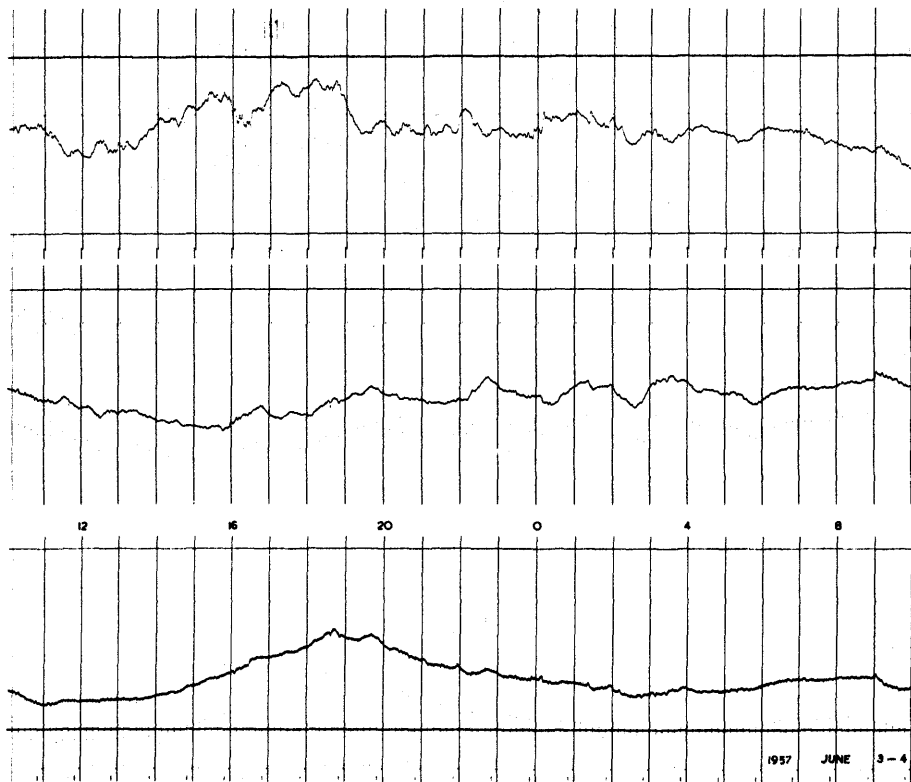


JUNE 1-2

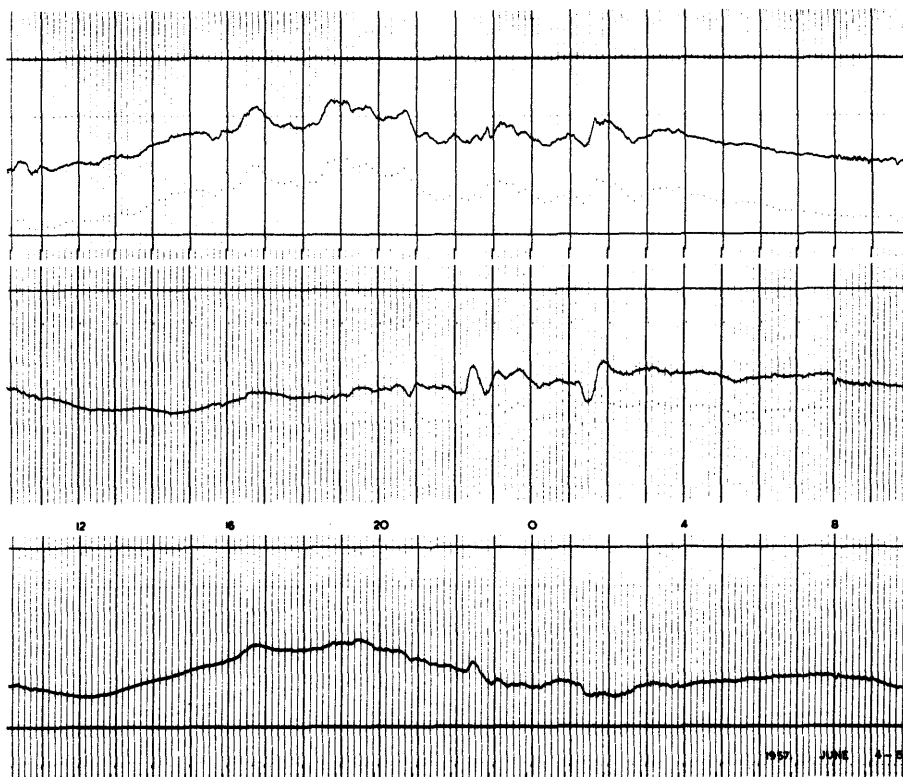
1957



JUNE 2-3

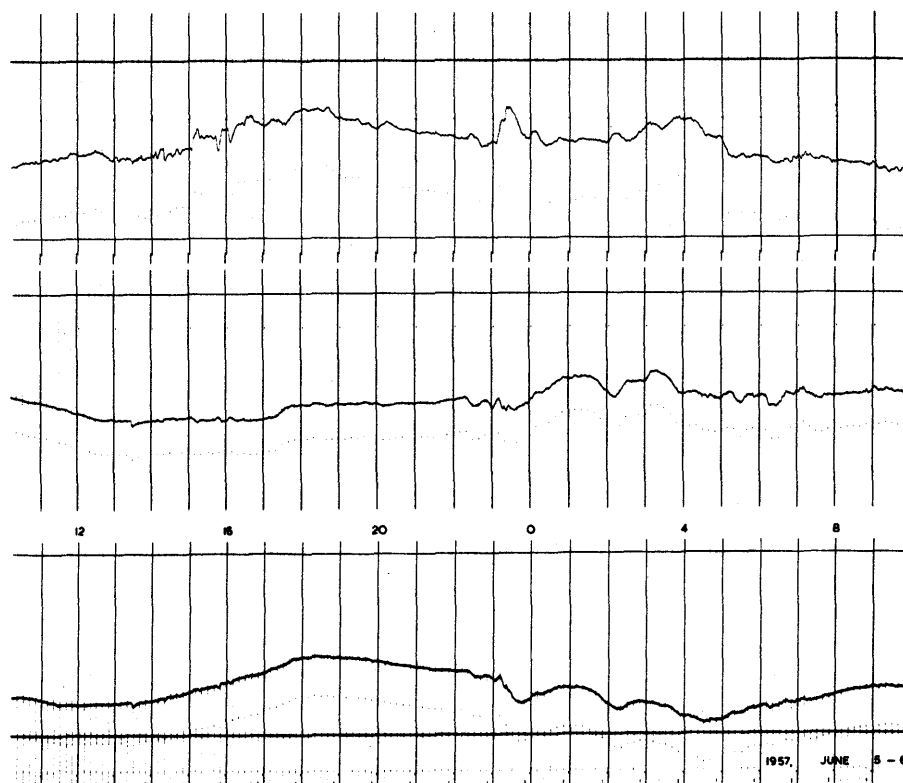


JUNE 3-4



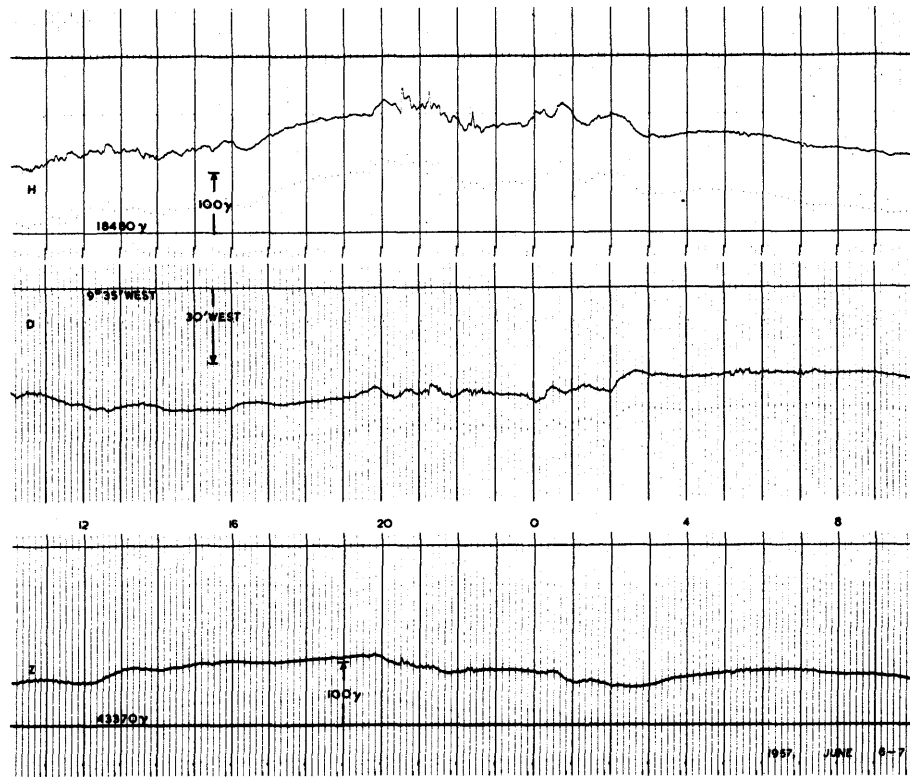
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JUNE 4-5

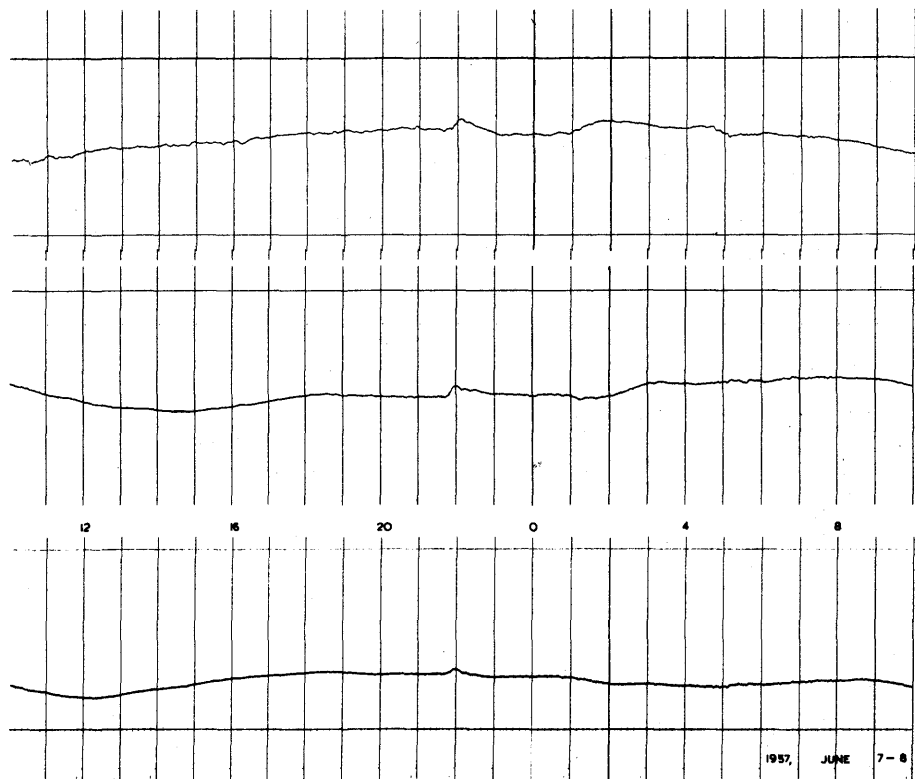


JUNE 5-6

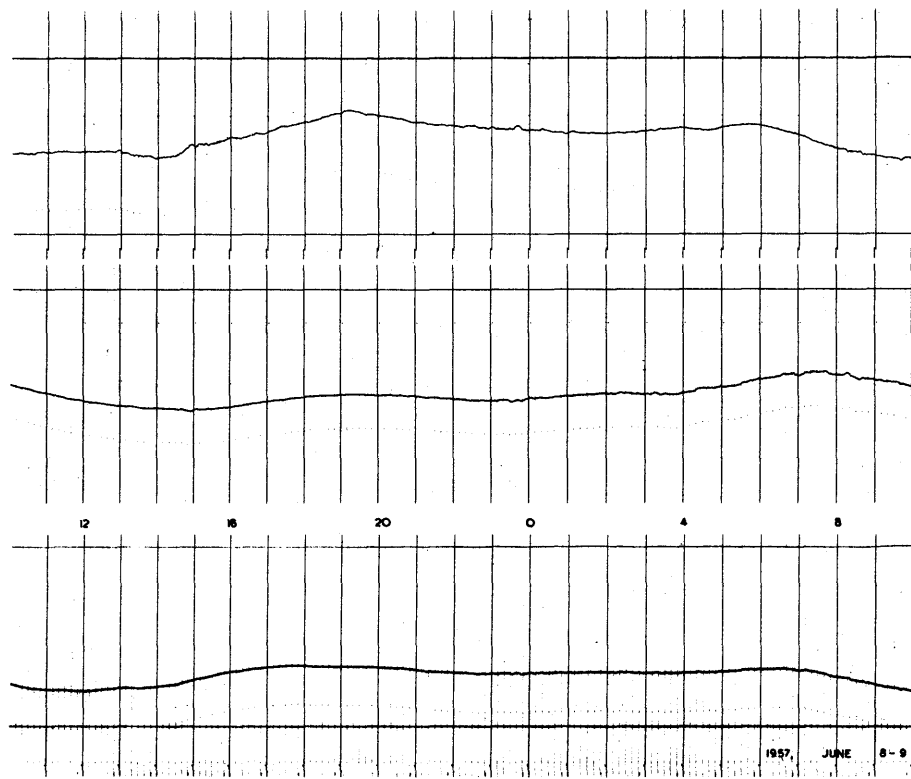
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JUNE 6-7

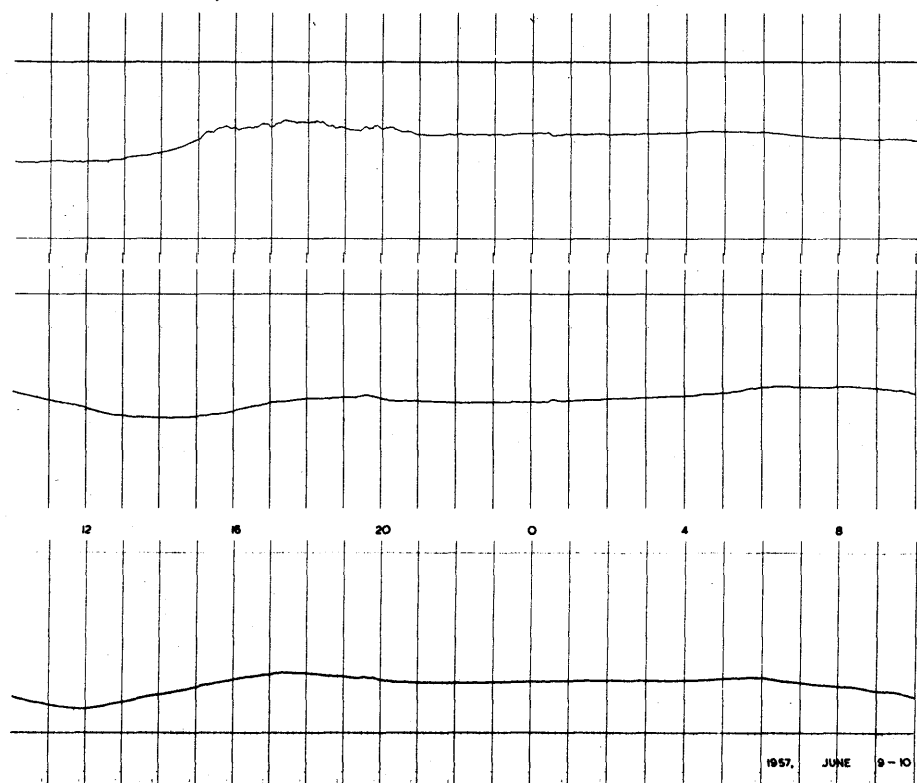


JUNE 7-8



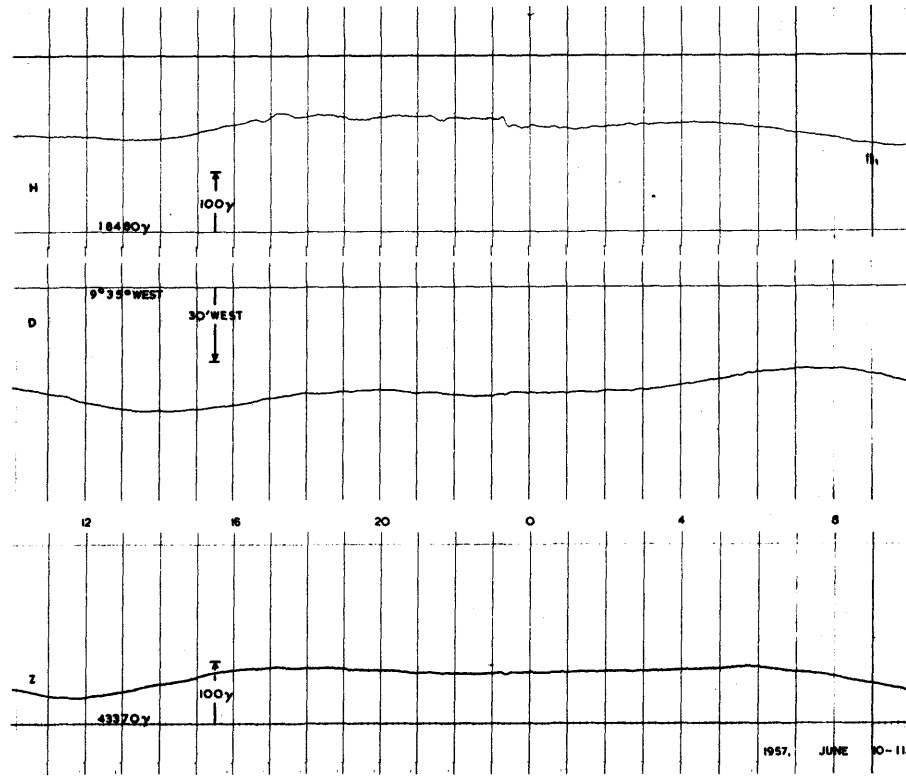
1957

JUNE 8-9

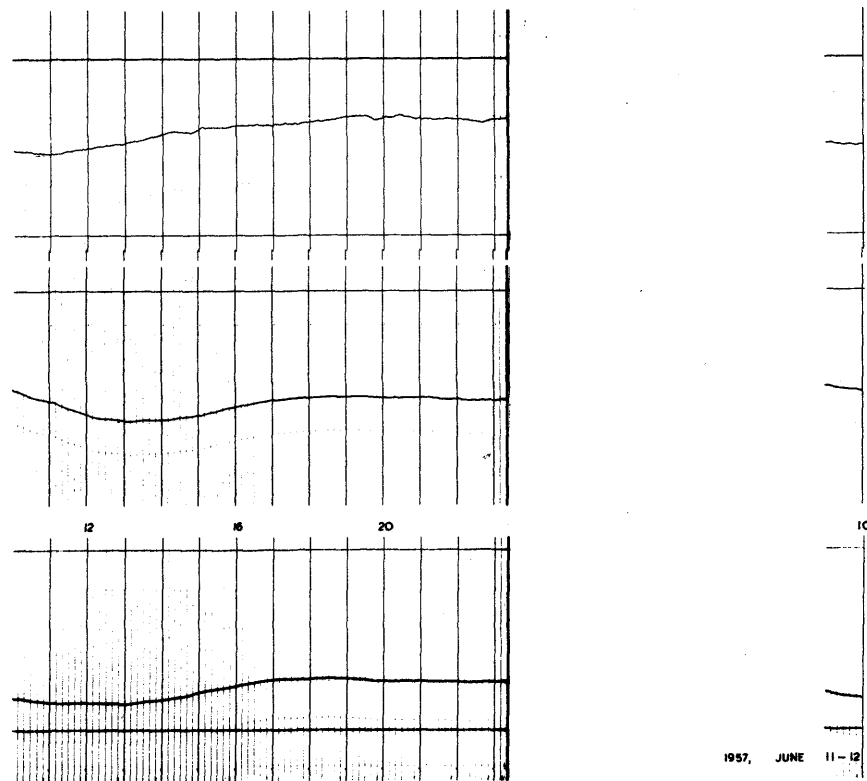


JUNE 9-10

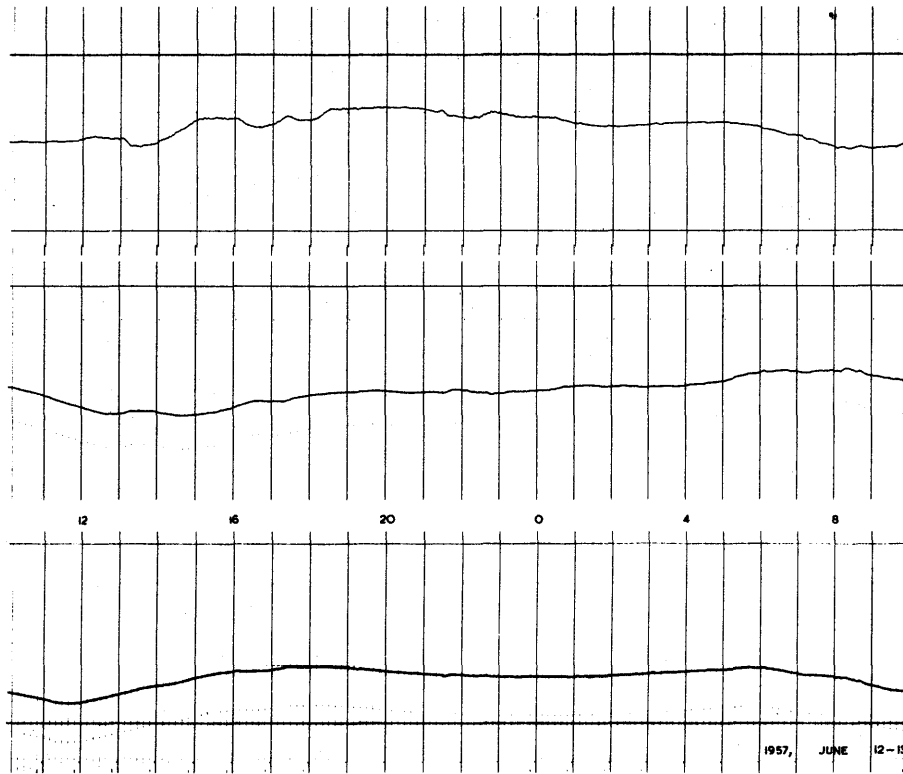
1957



JUNE 10-11

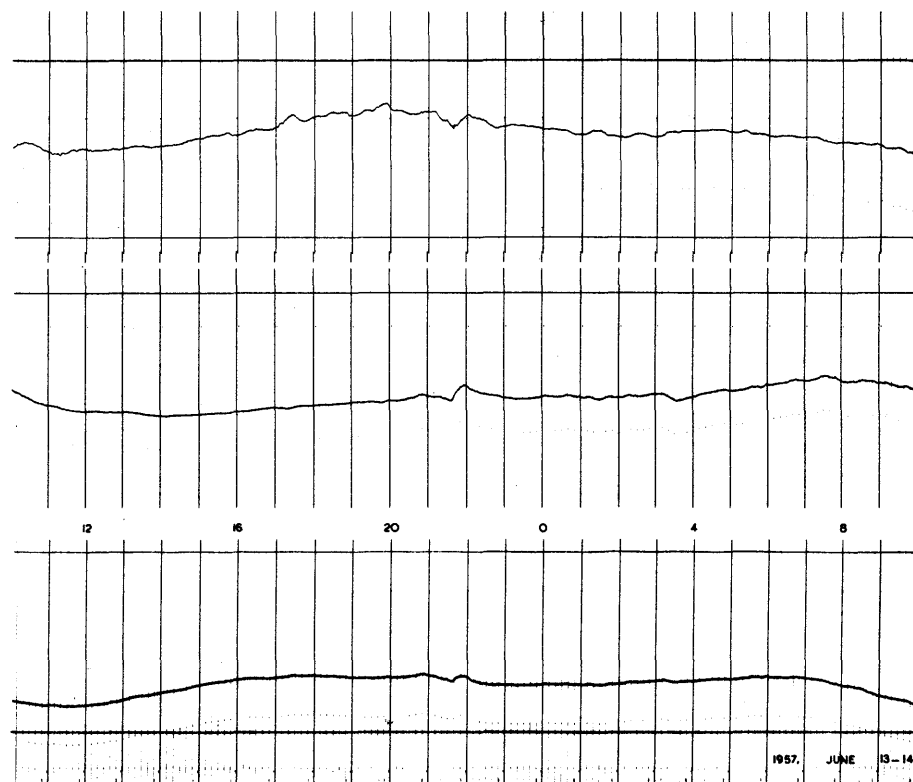


JUNE 11-12



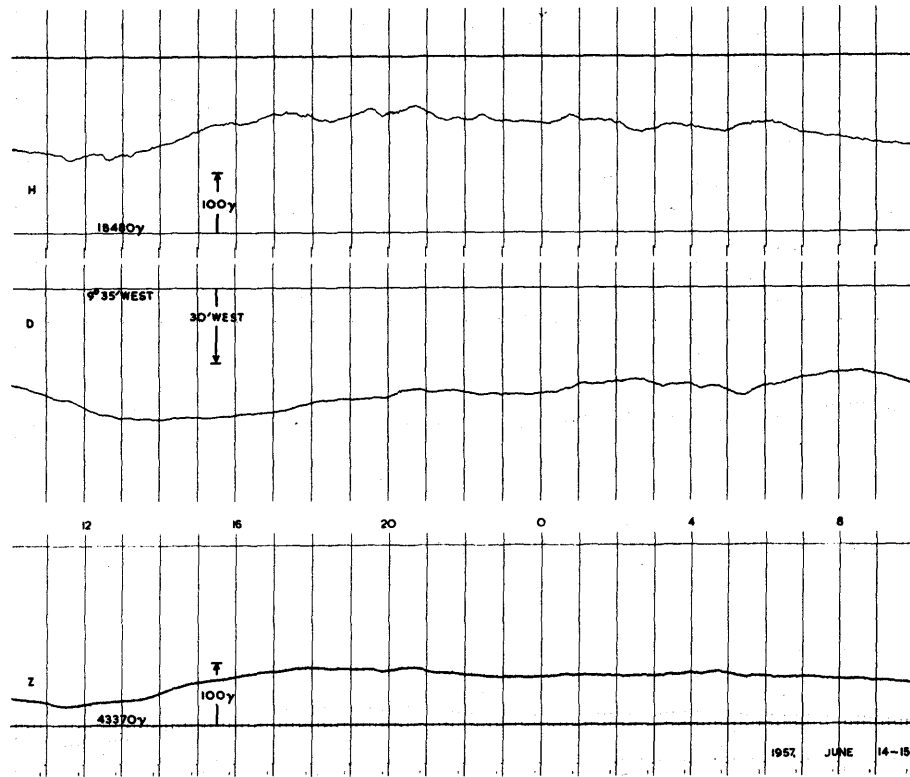
1957

JUNE 12-13

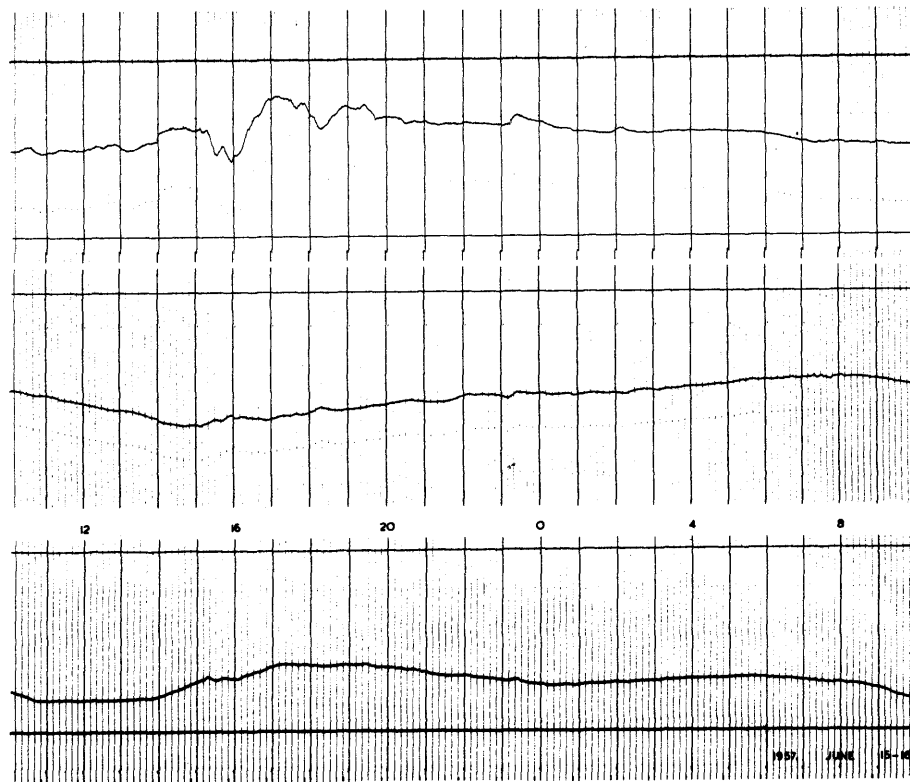


JUNE 13-14

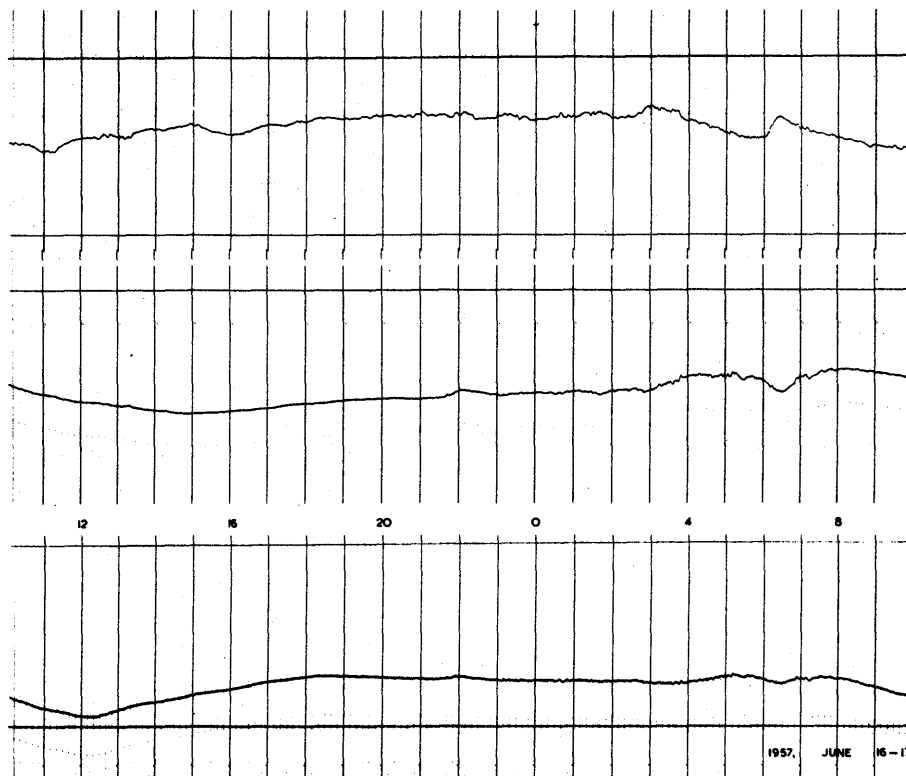
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JUNE 14-15

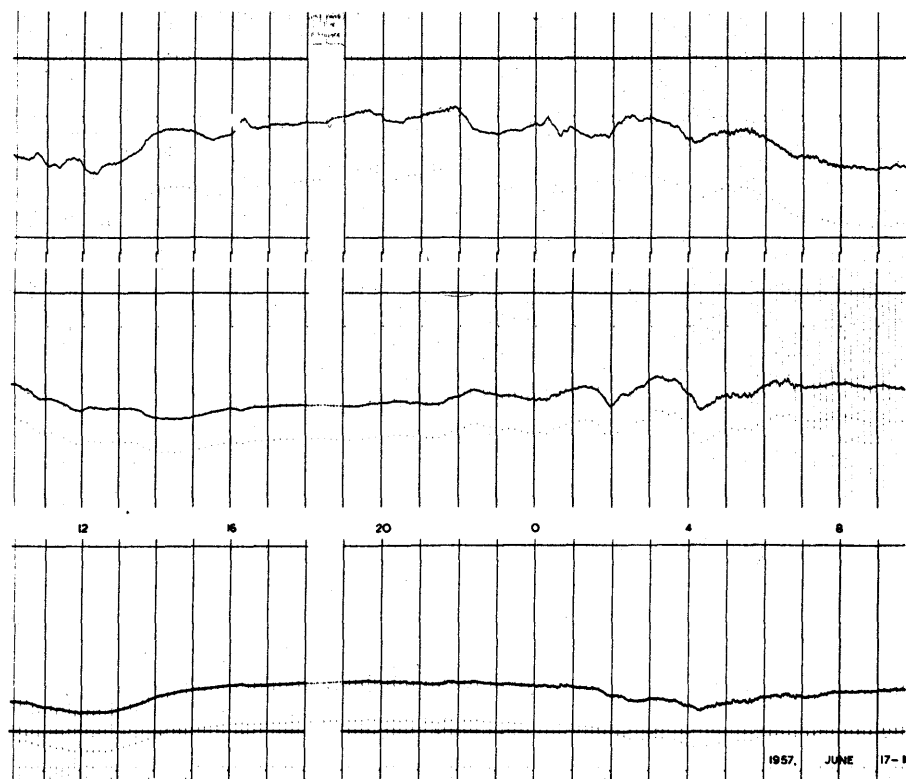


JUNE 15-16



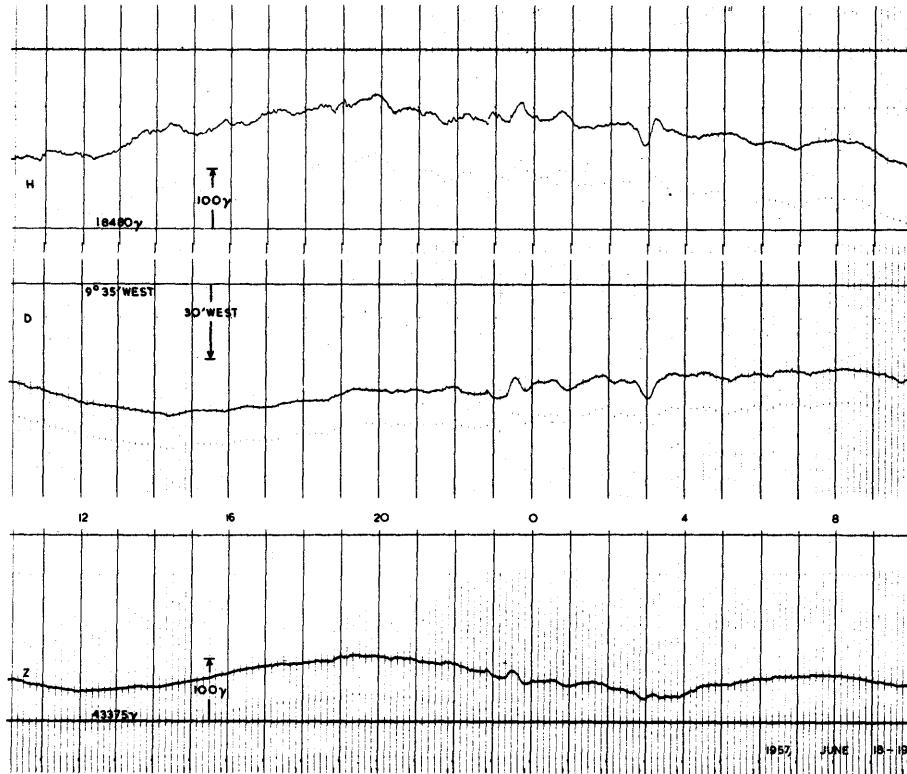
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JUNE 16-17

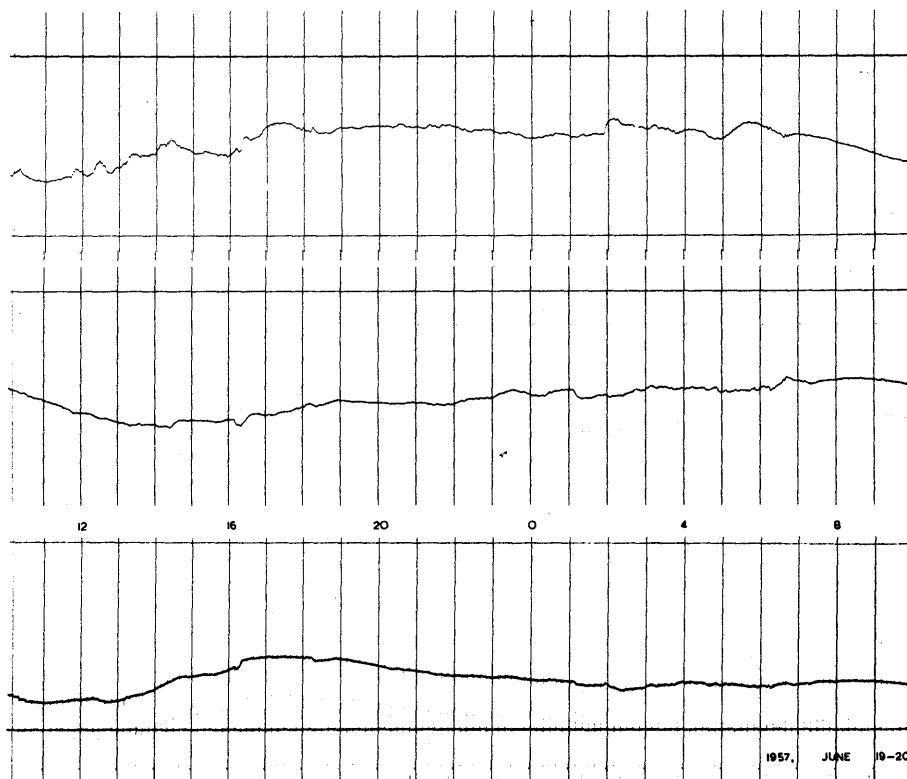


JUNE 17-18

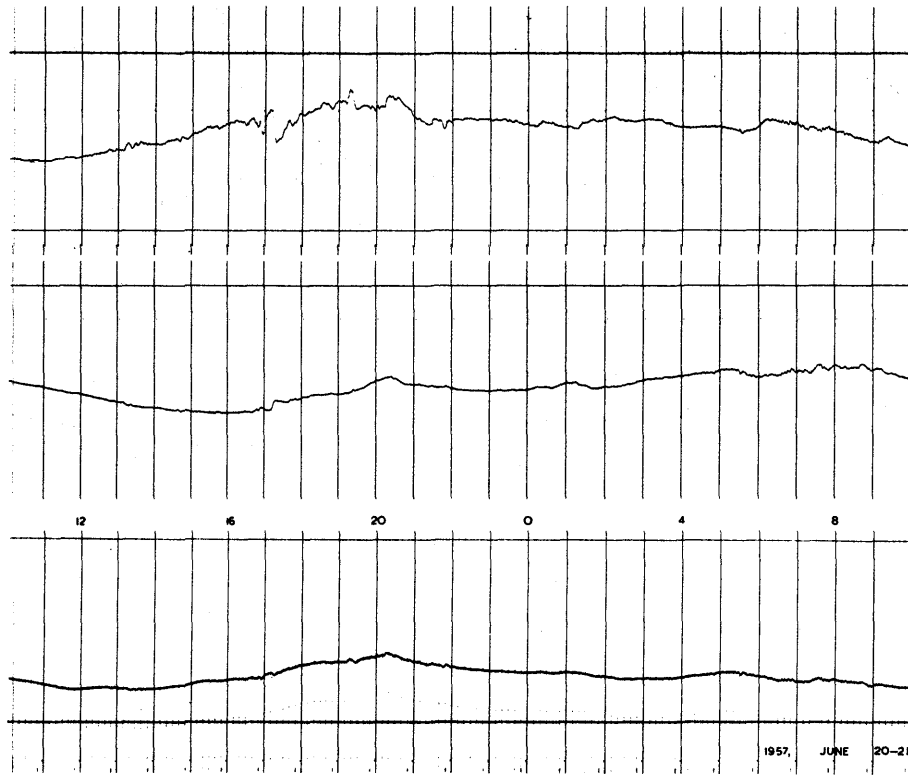
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JUNE 18-19

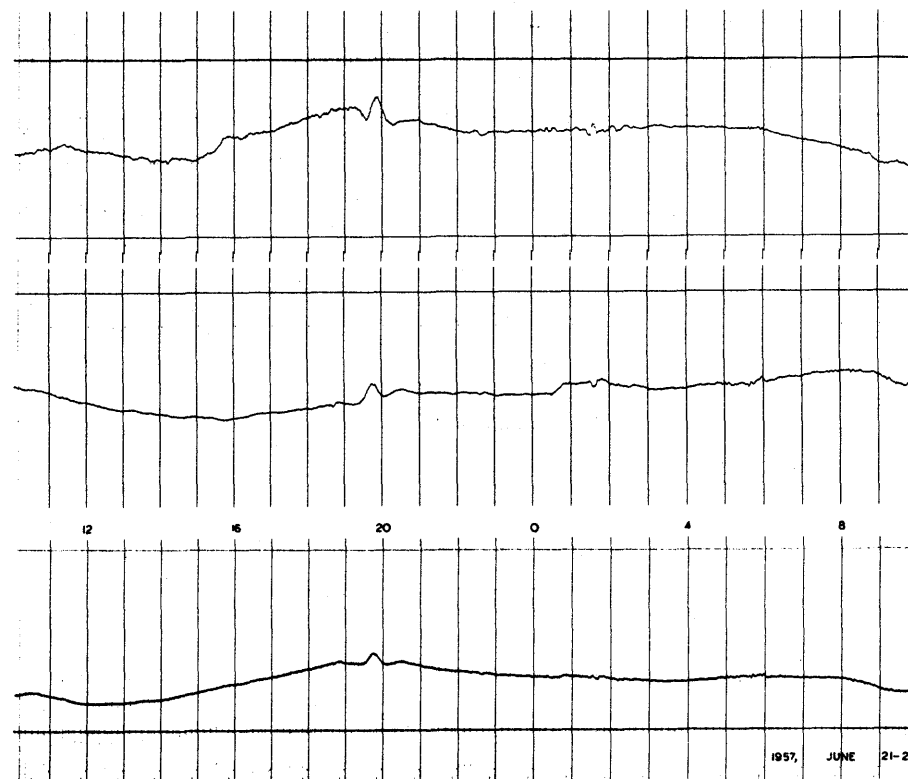


JUNE 19-20



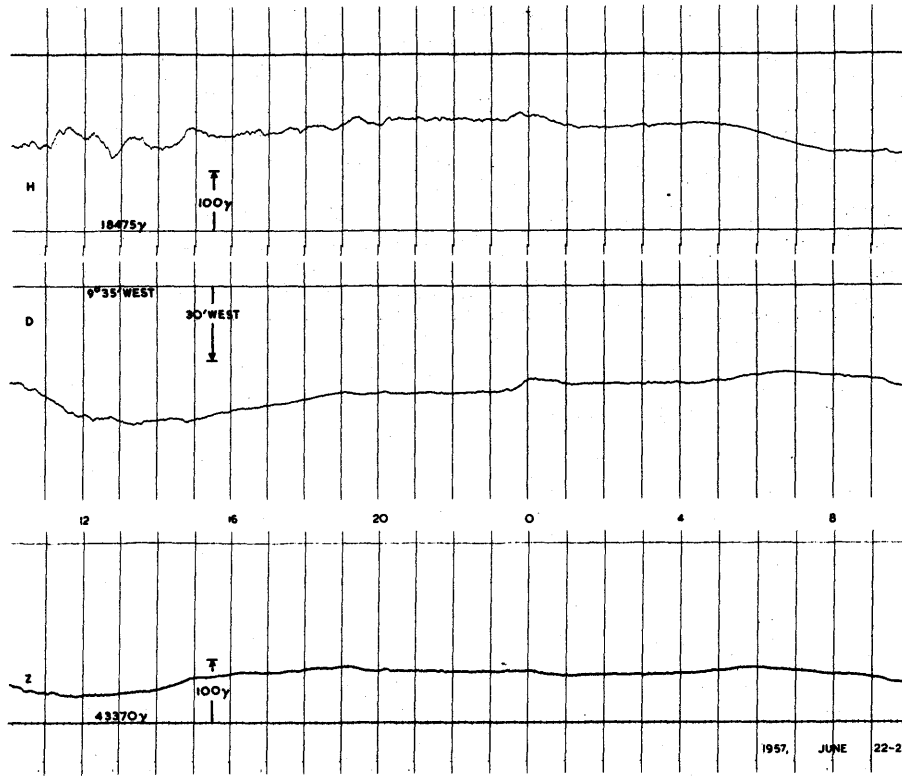
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JUNE 20-21

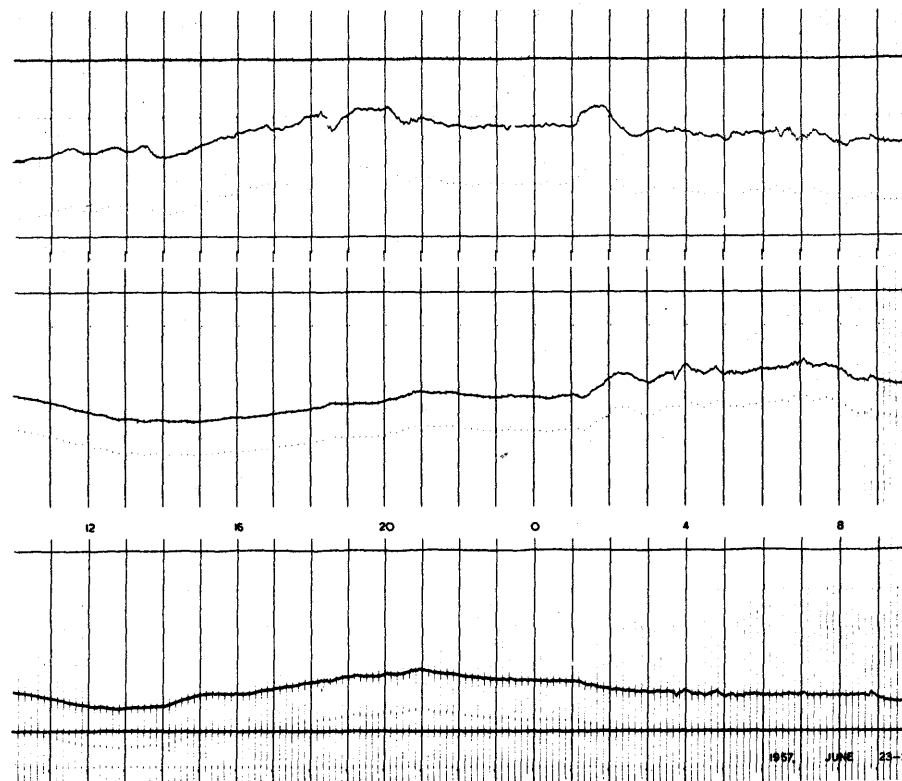


JUNE 21-22

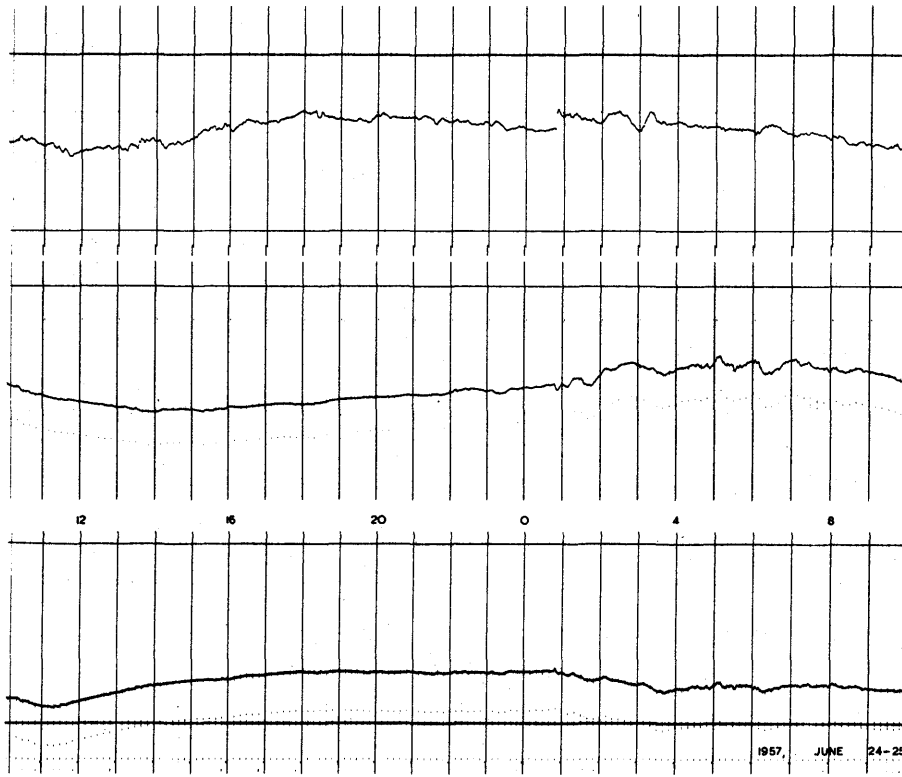
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JUNE 22-23

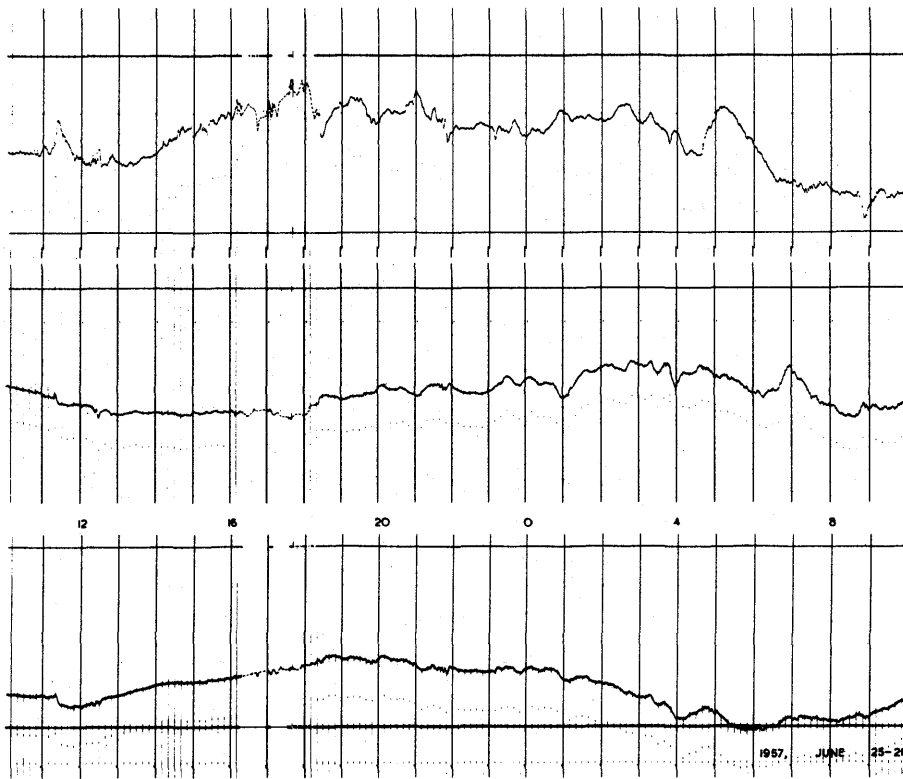


JUNE 23-24



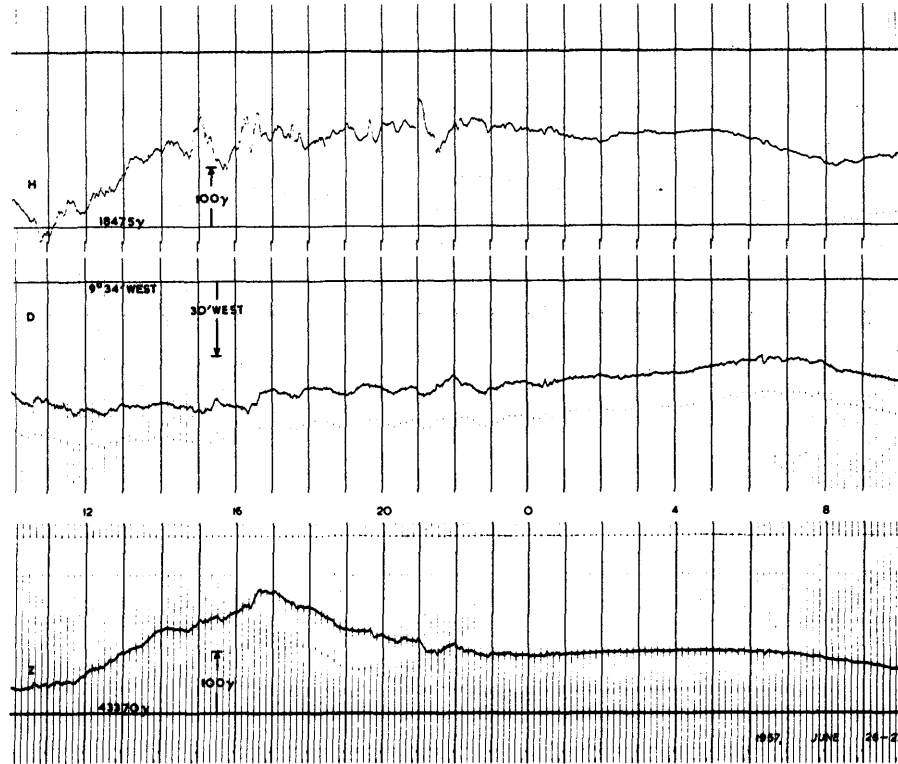
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JUNE 24-25

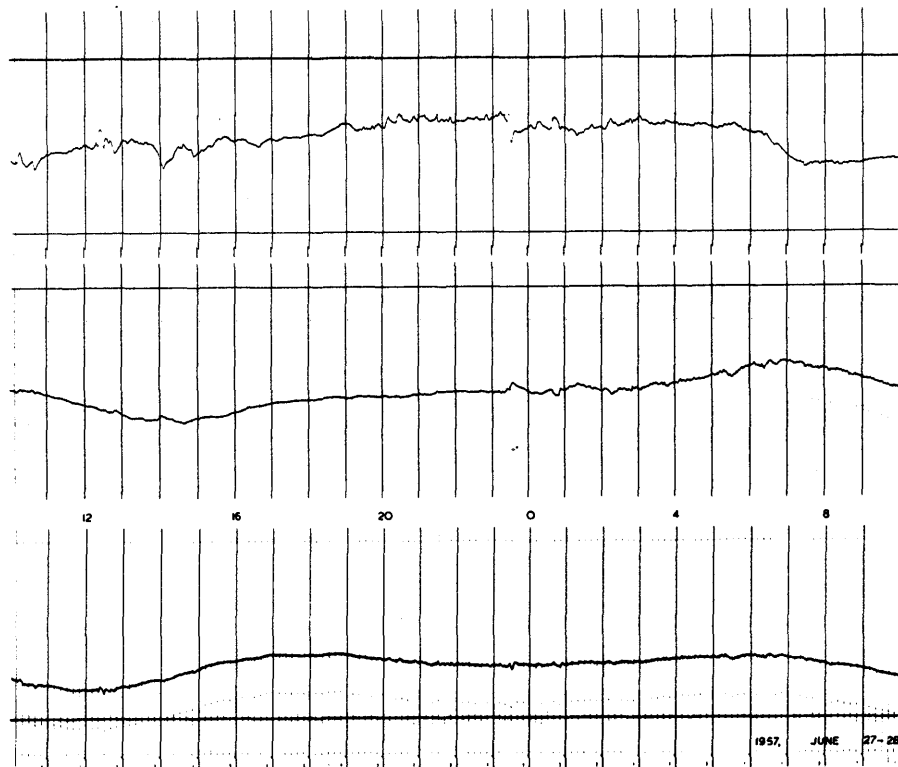


JUNE 25-26

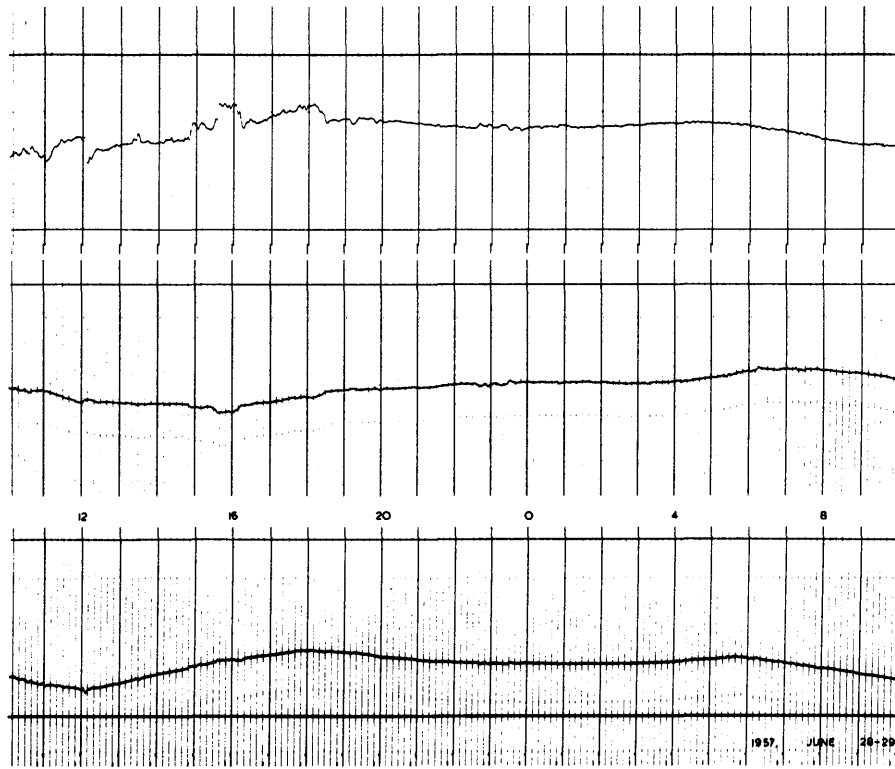
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JUNE 26-27

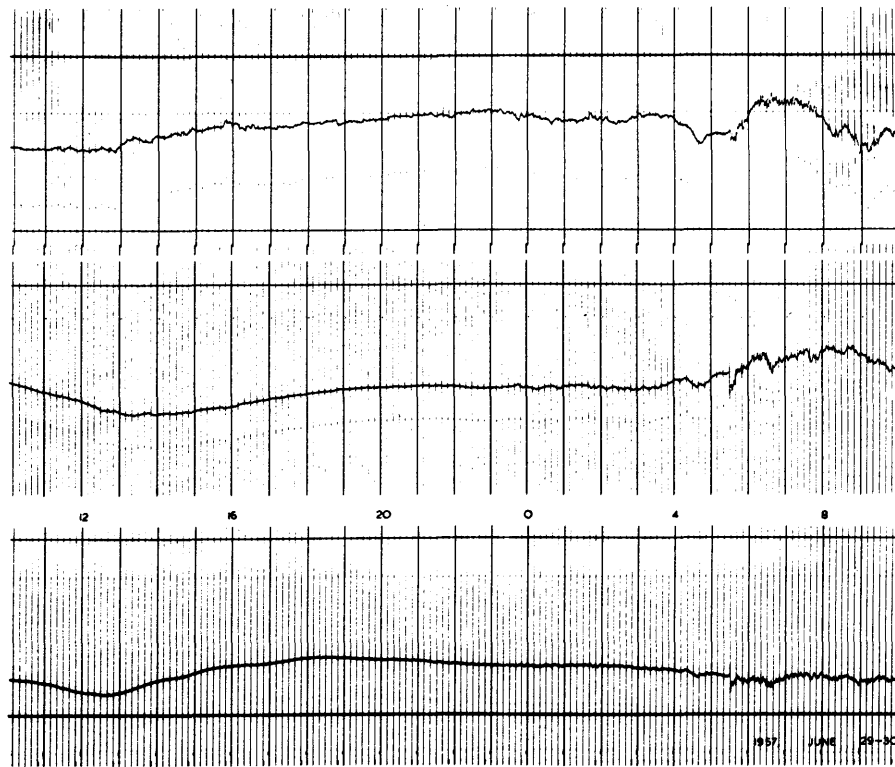


JUNE 27-28



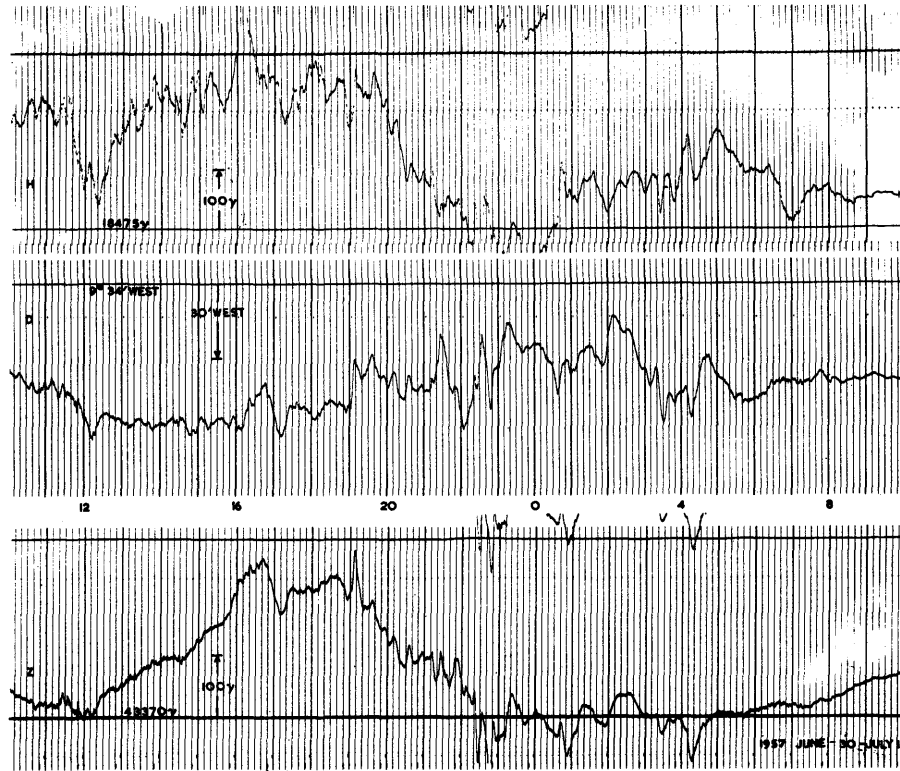
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JUNE 28-29

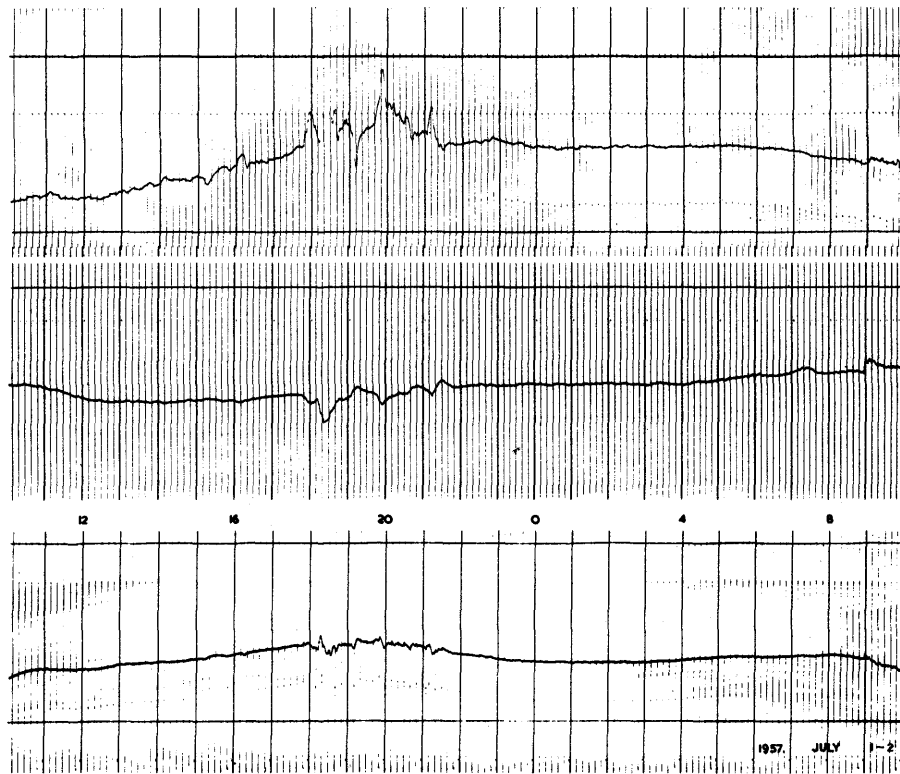


JUNE 29-30

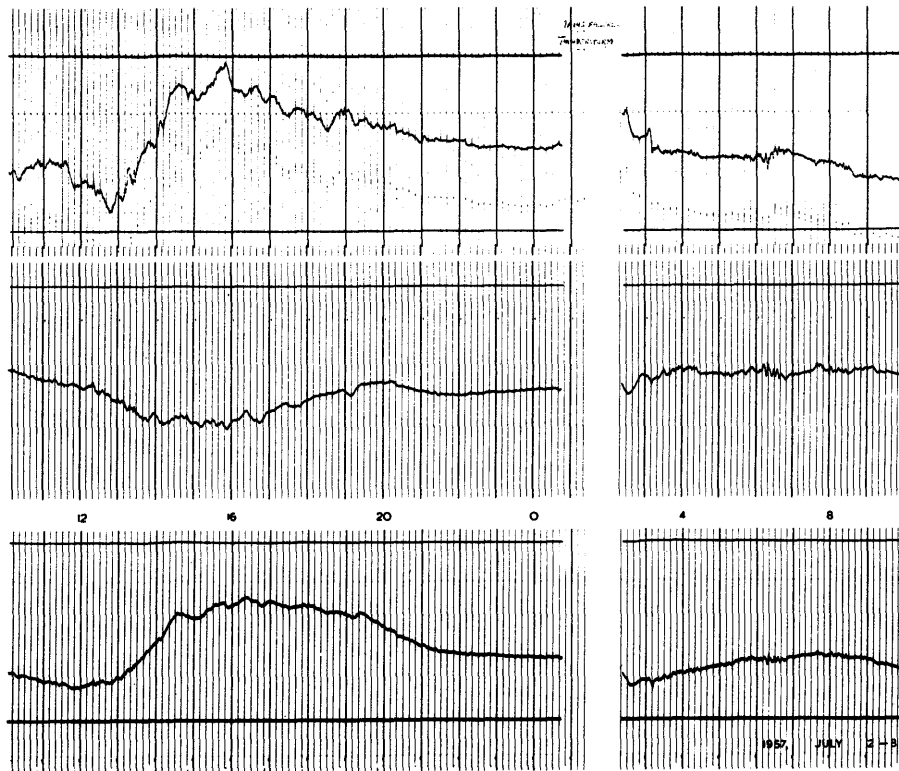
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JUN. 30 - JUL. 1

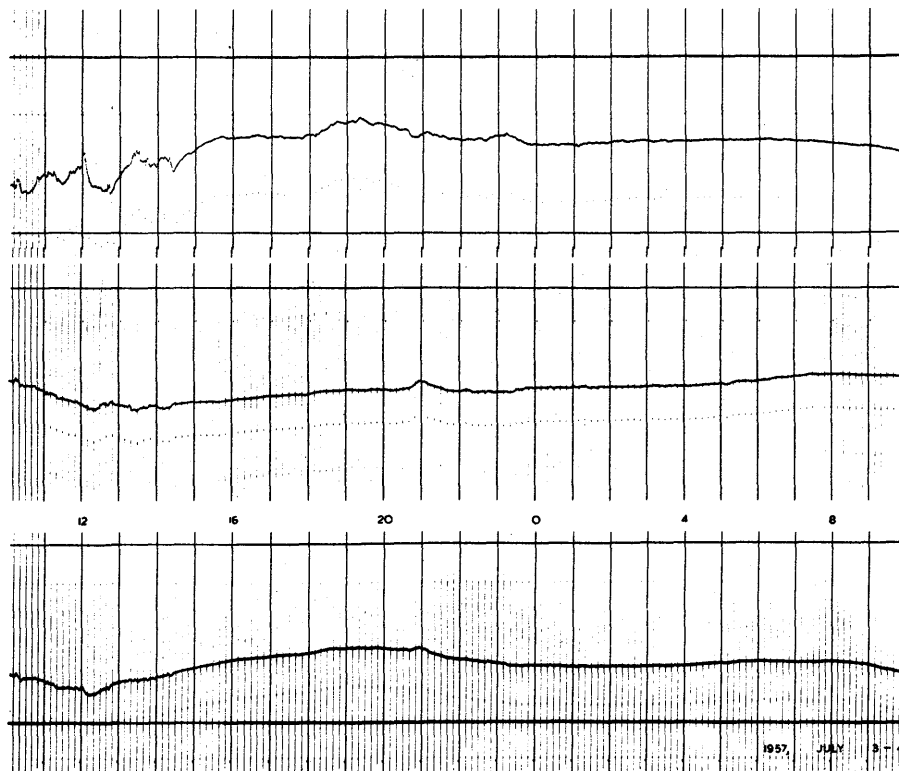


JULY 1-2

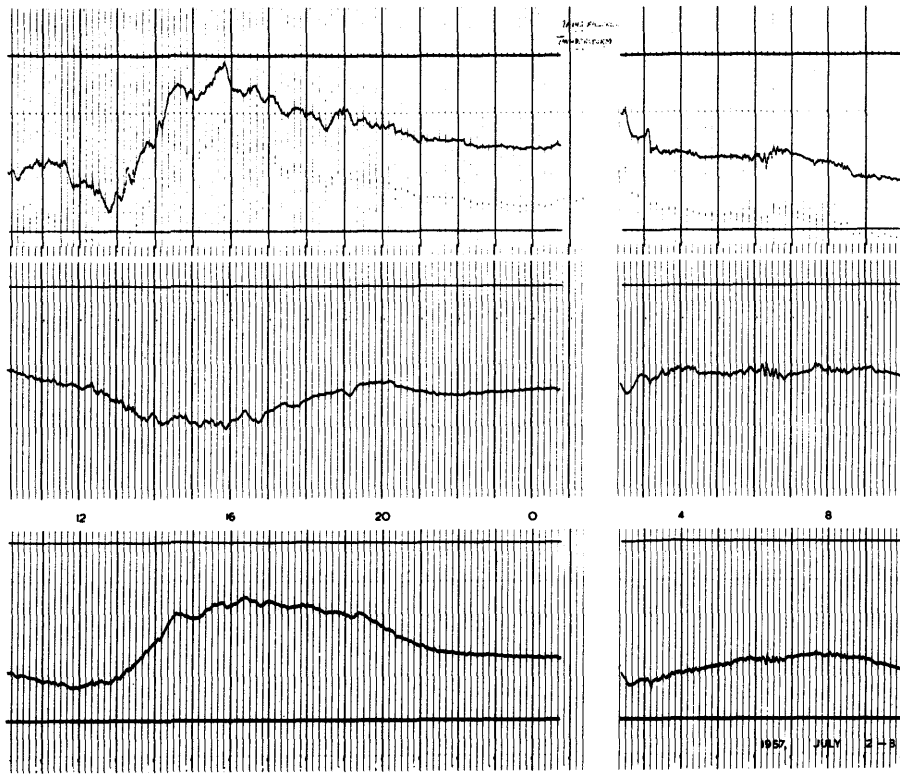


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JULY 2-3

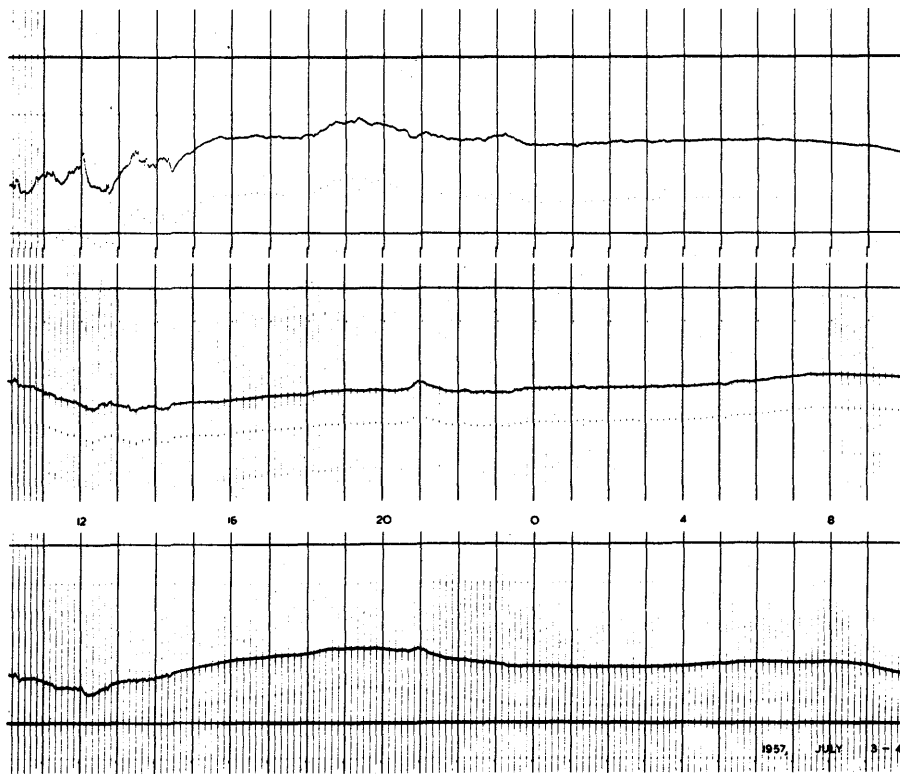


JULY 3-4

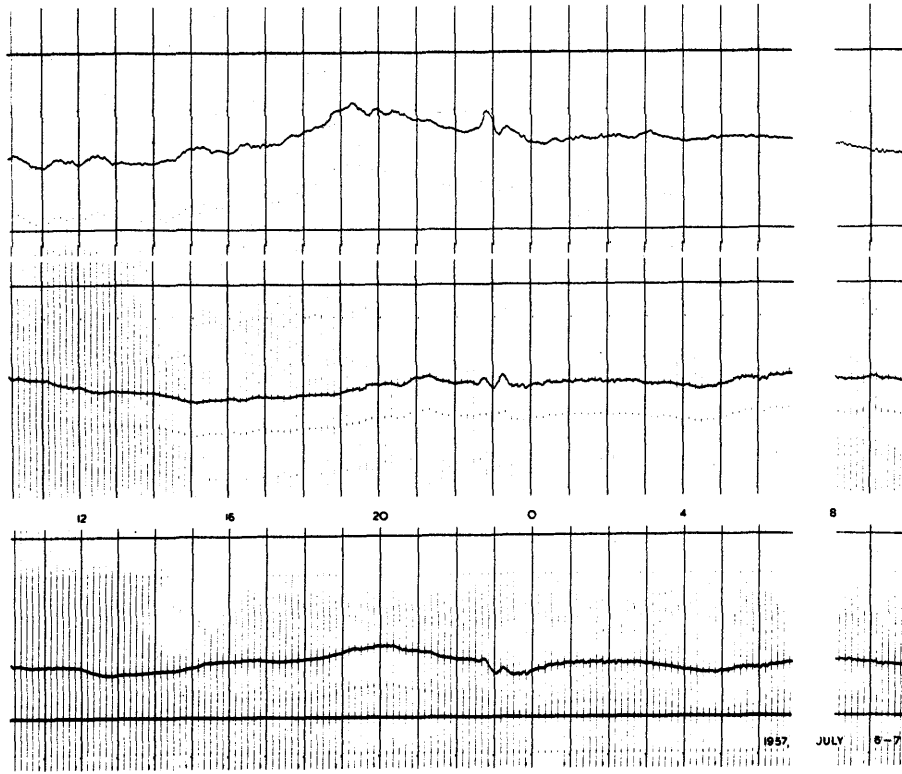


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JULY 2-3

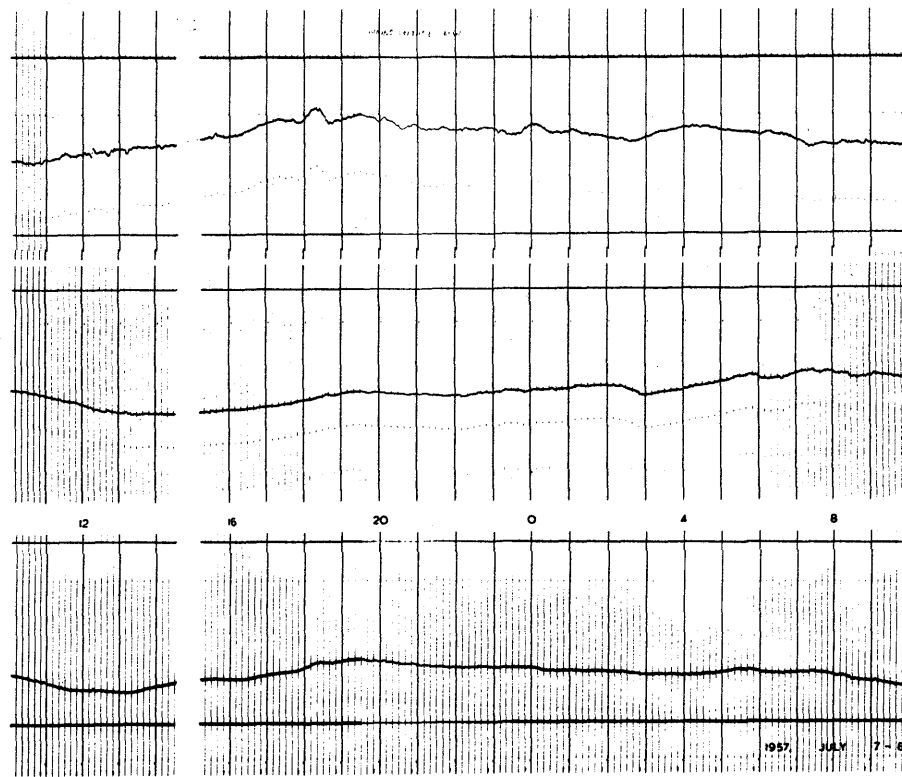


JULY 3-4



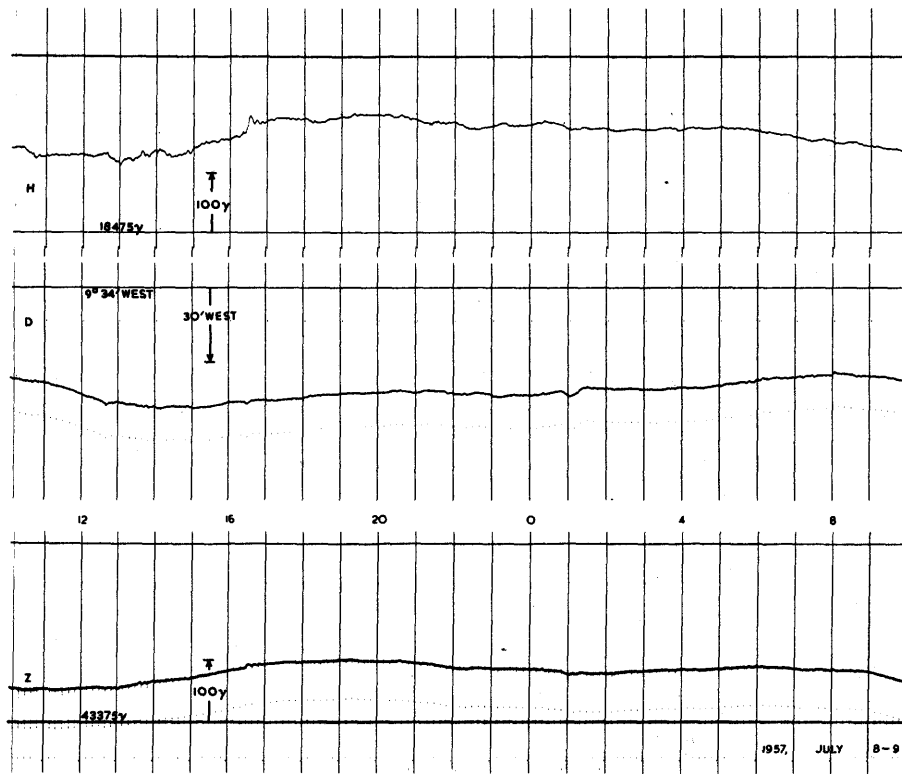
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JULY 6-7

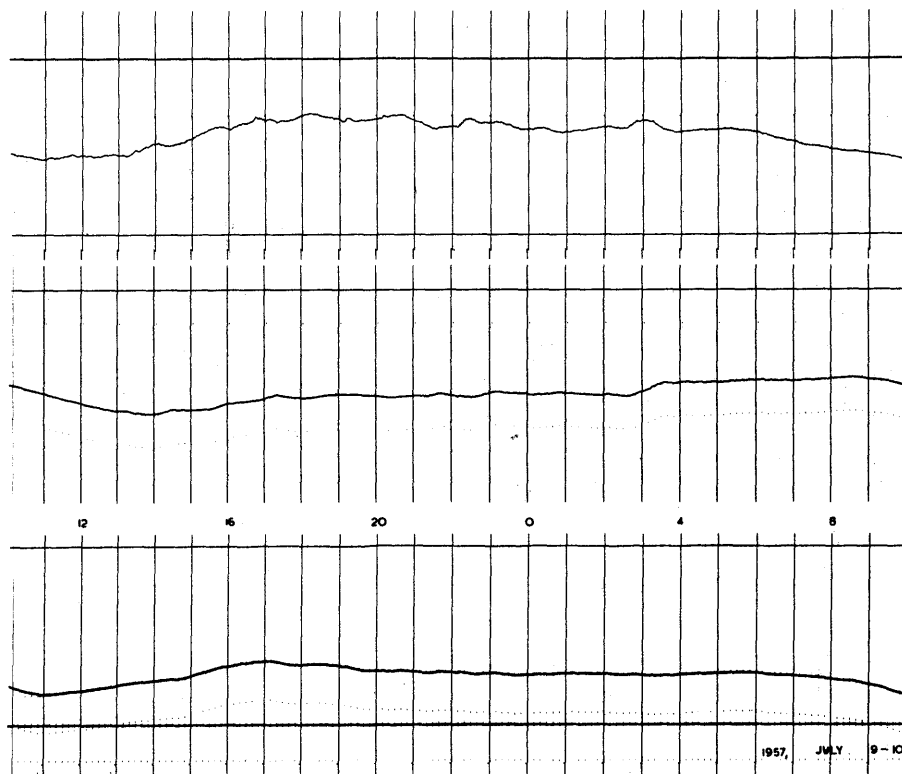


JULY 7-8

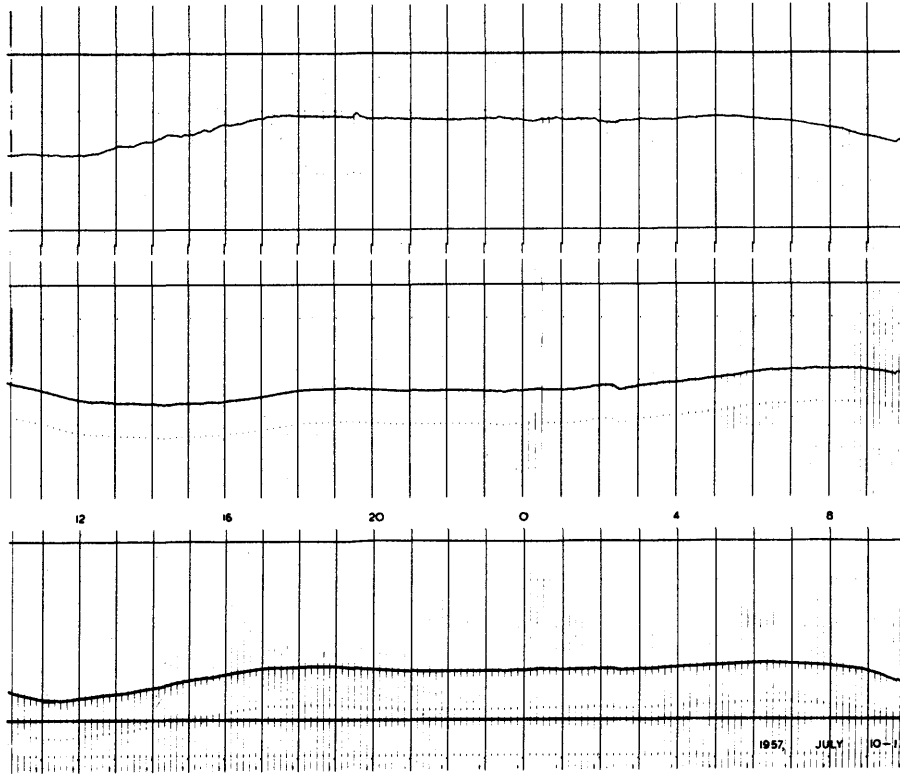
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JULY 8-9

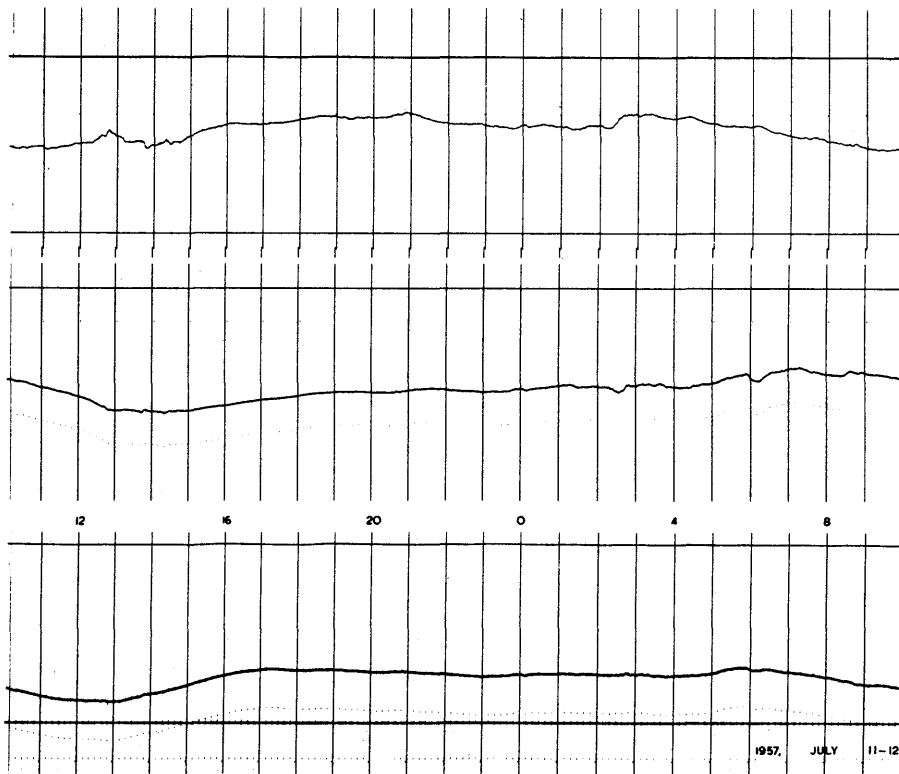


JULY 9-10



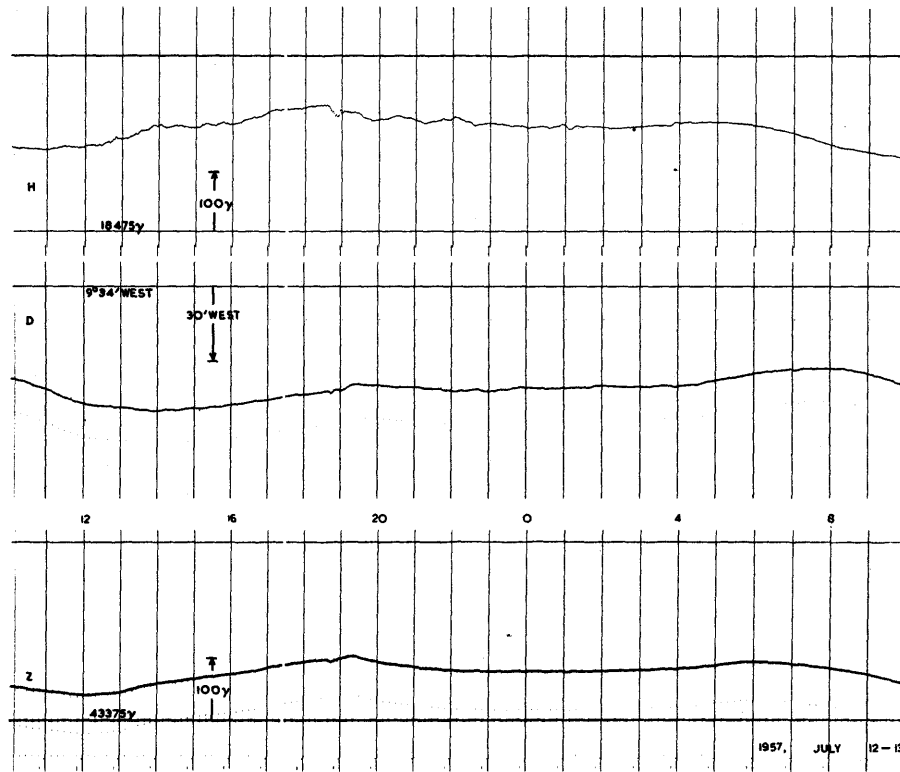
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JULY 10-11

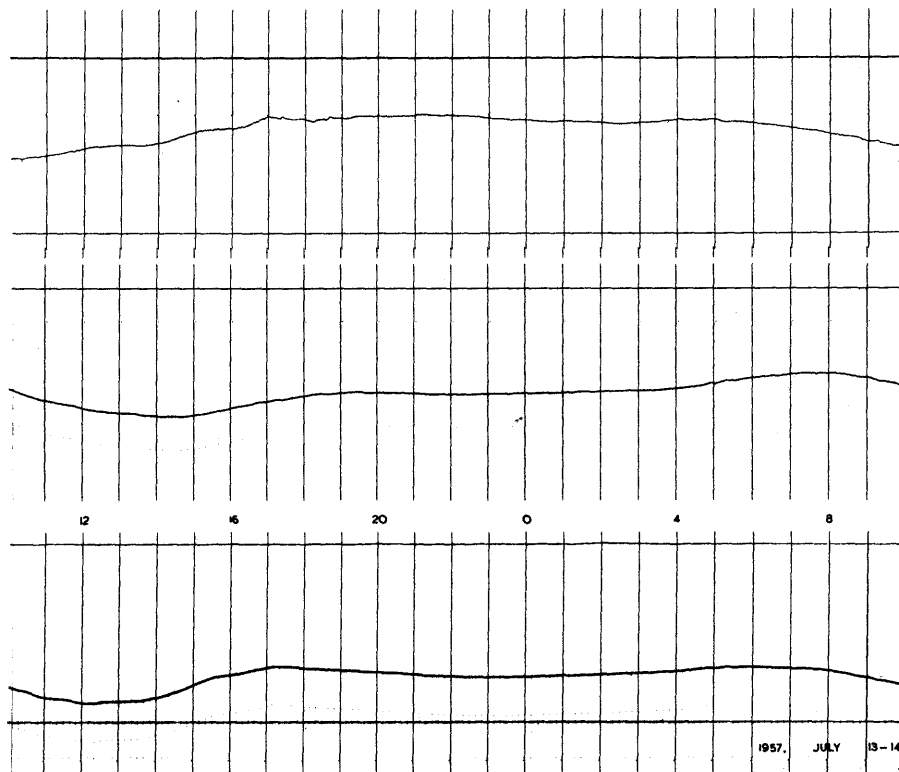


JULY 11-12

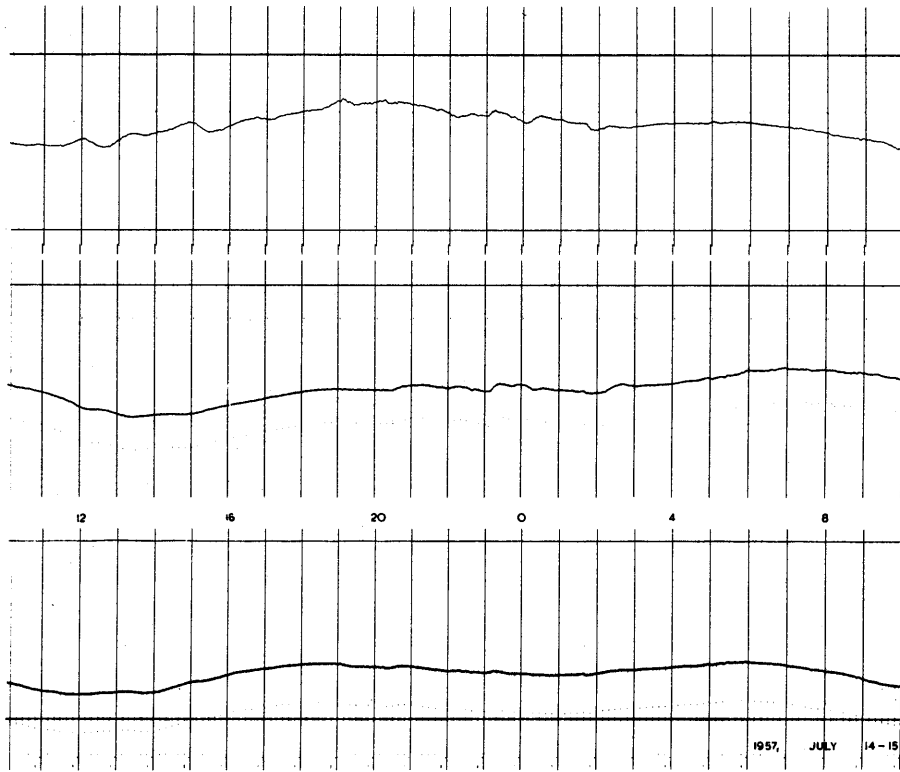
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JULY 12-13

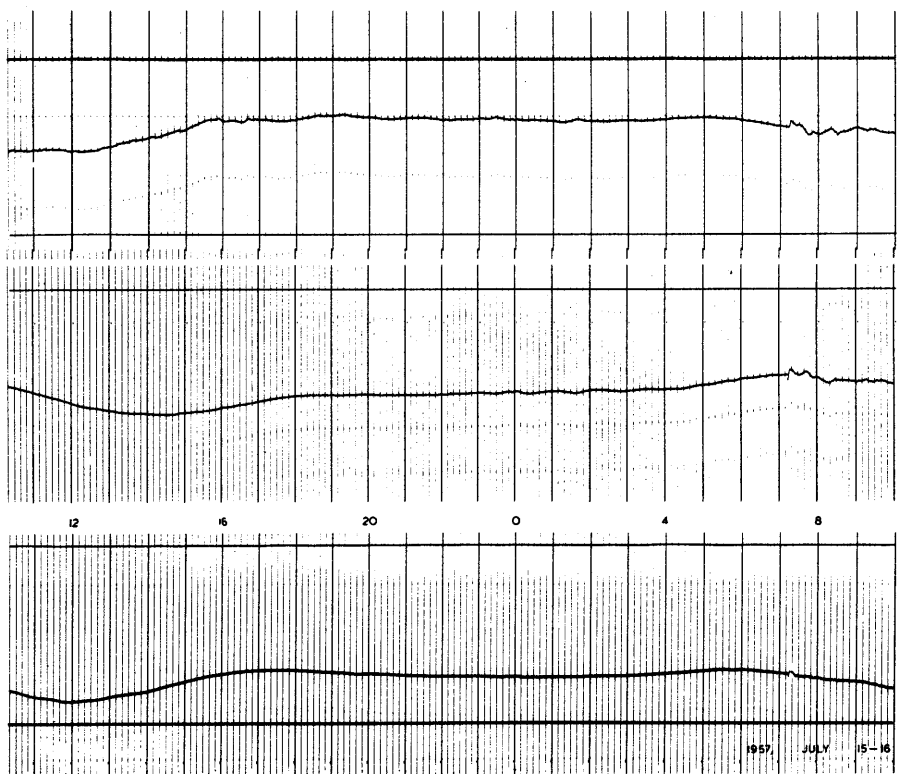


JULY 13-14



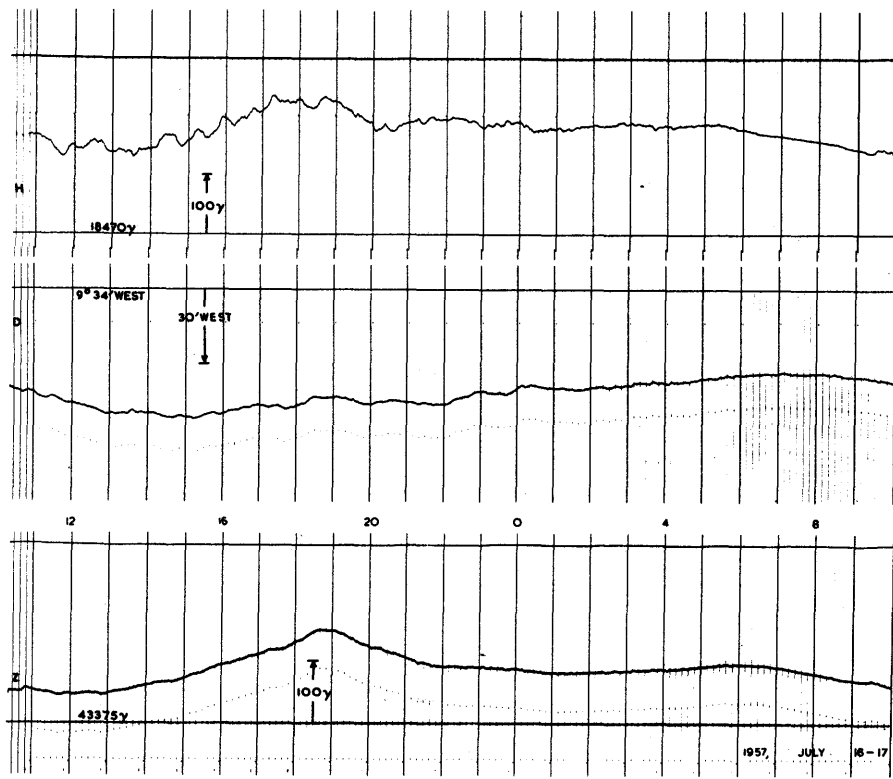
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JULY 14-15

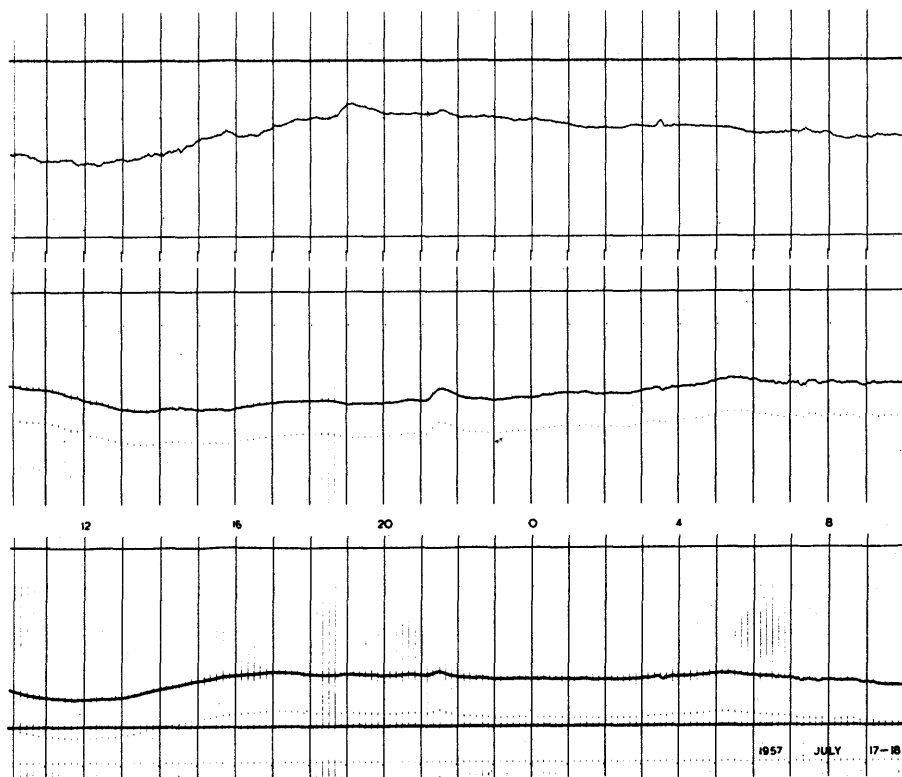


JULY 15-16

1957

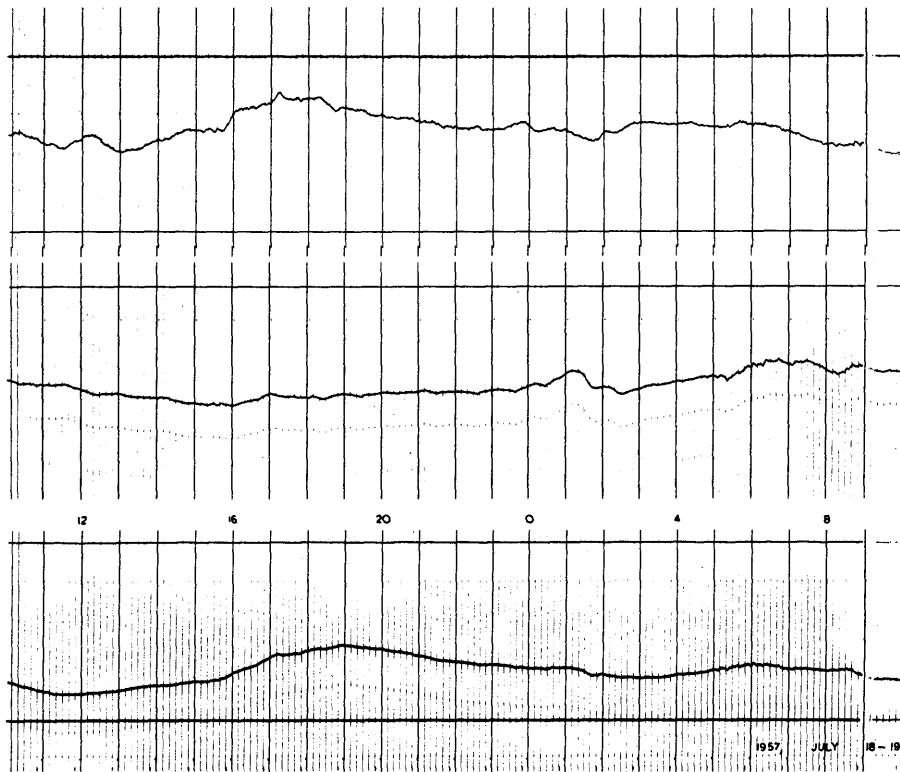


JULY 16-17

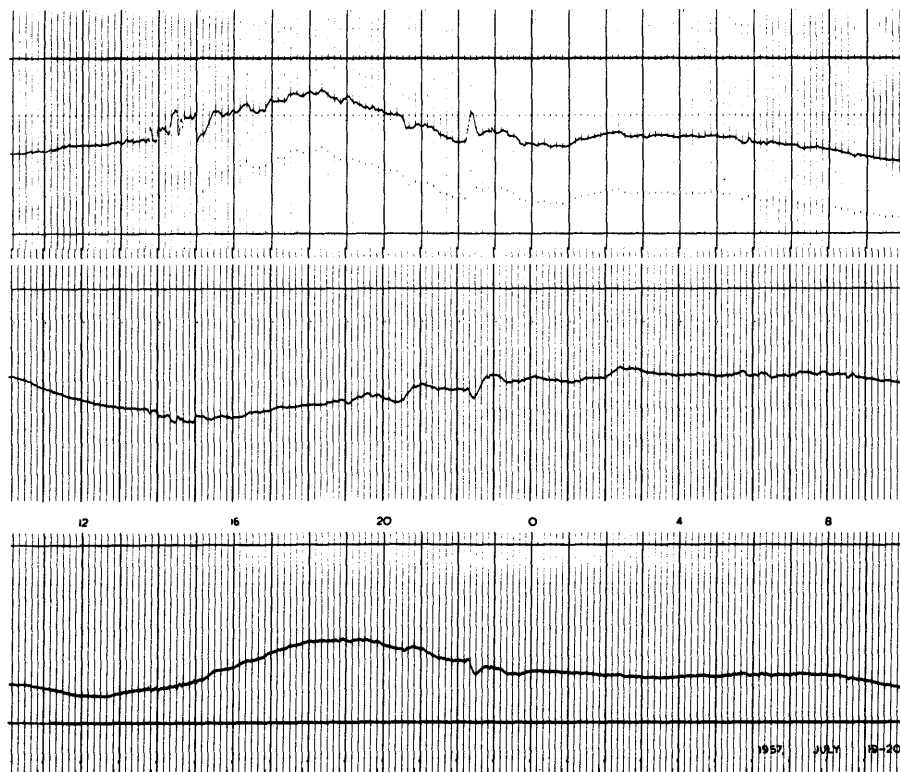


JULY 17-18

1957

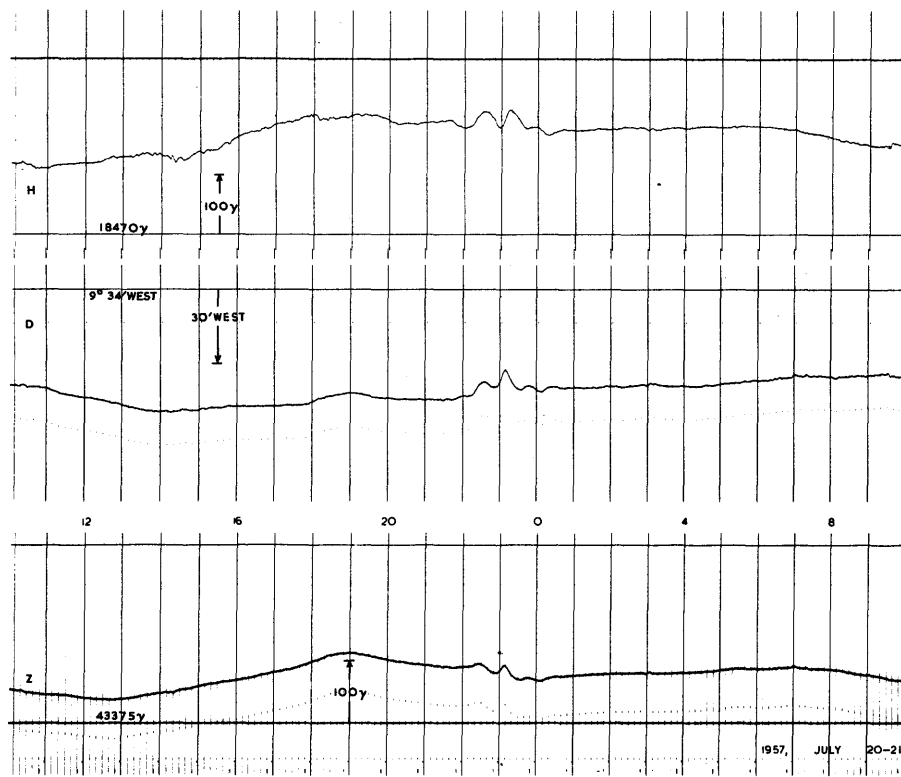


JULY 18-19

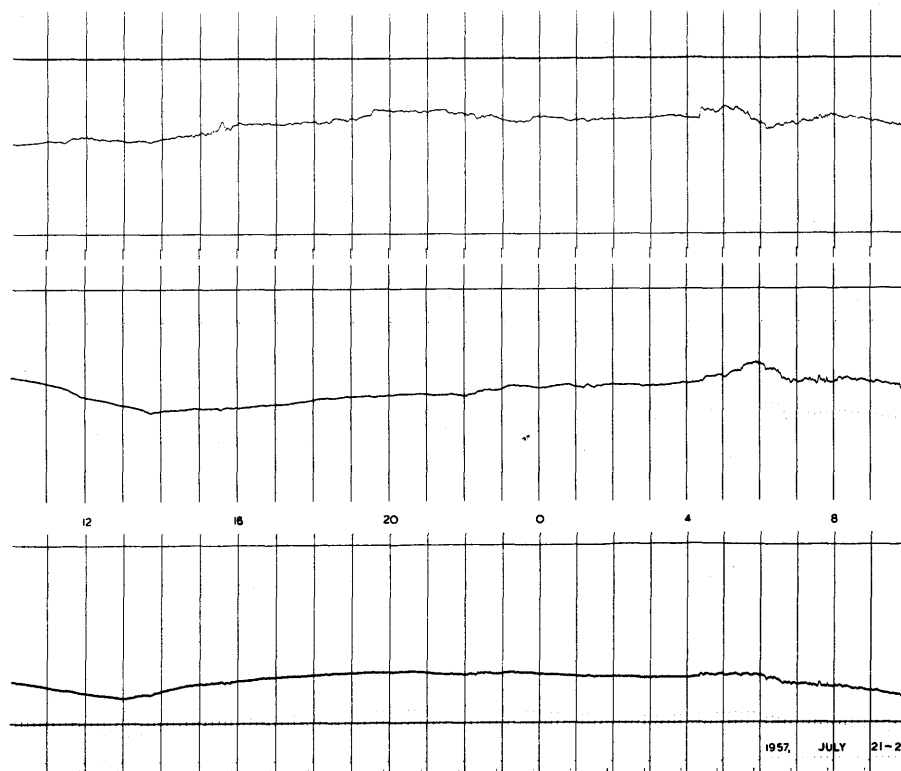


JULY 19-20

1957

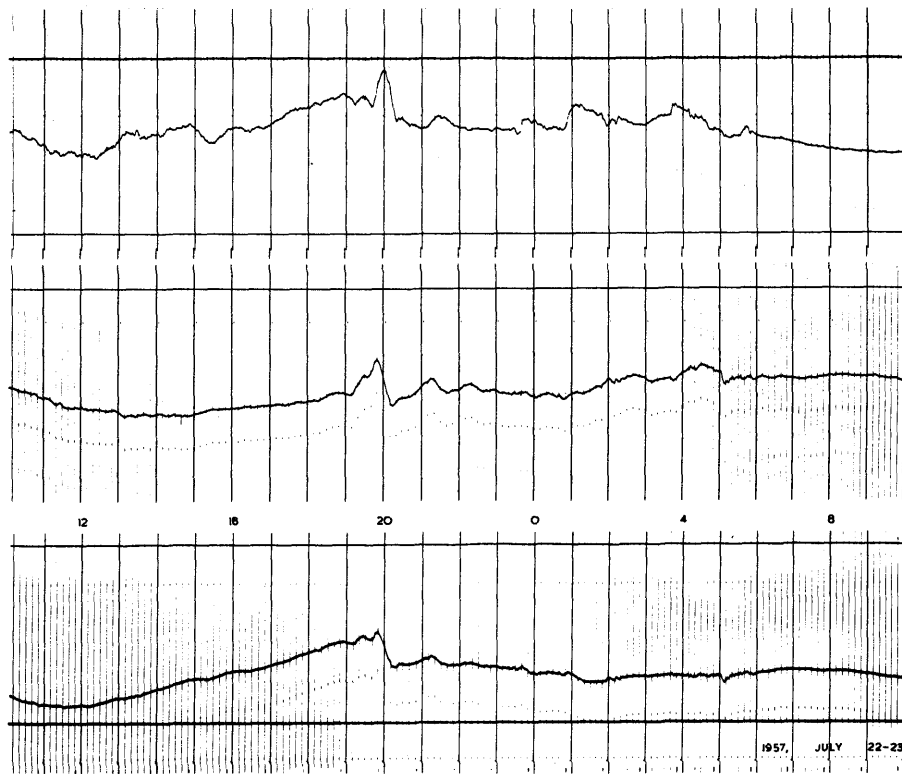


JULY 20-21

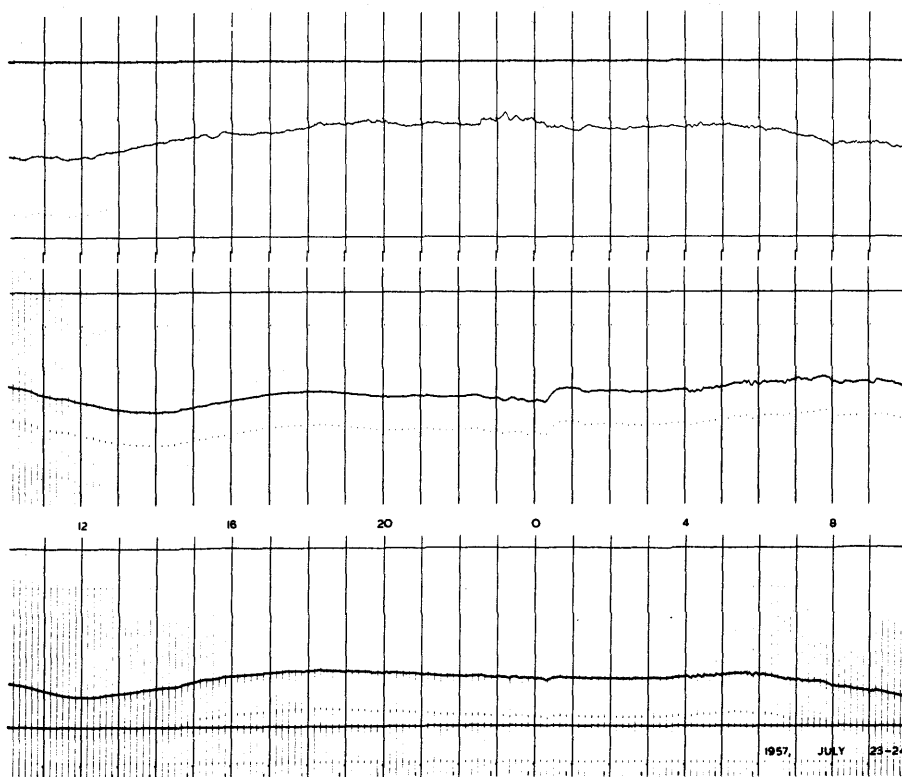


JULY 21-22

1957

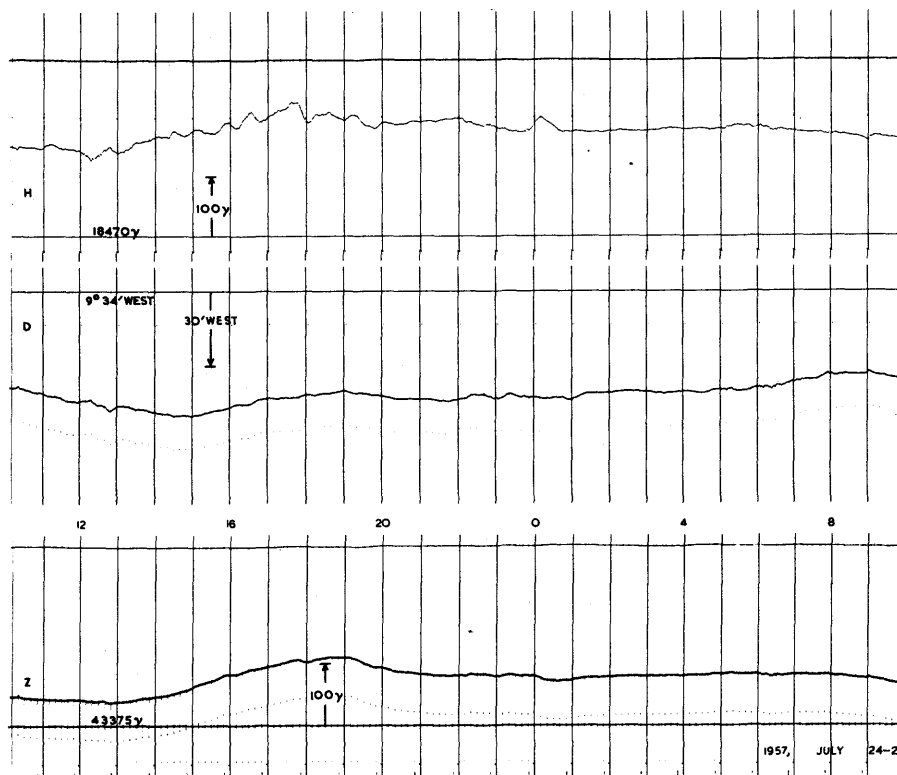


JULY 22-23

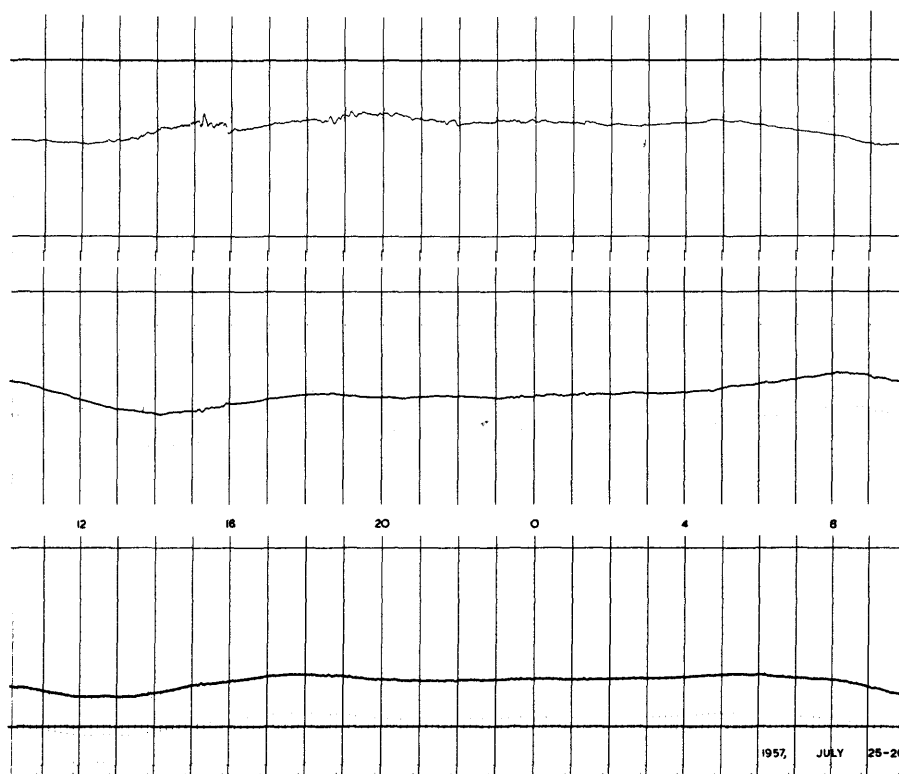


JULY 23-24

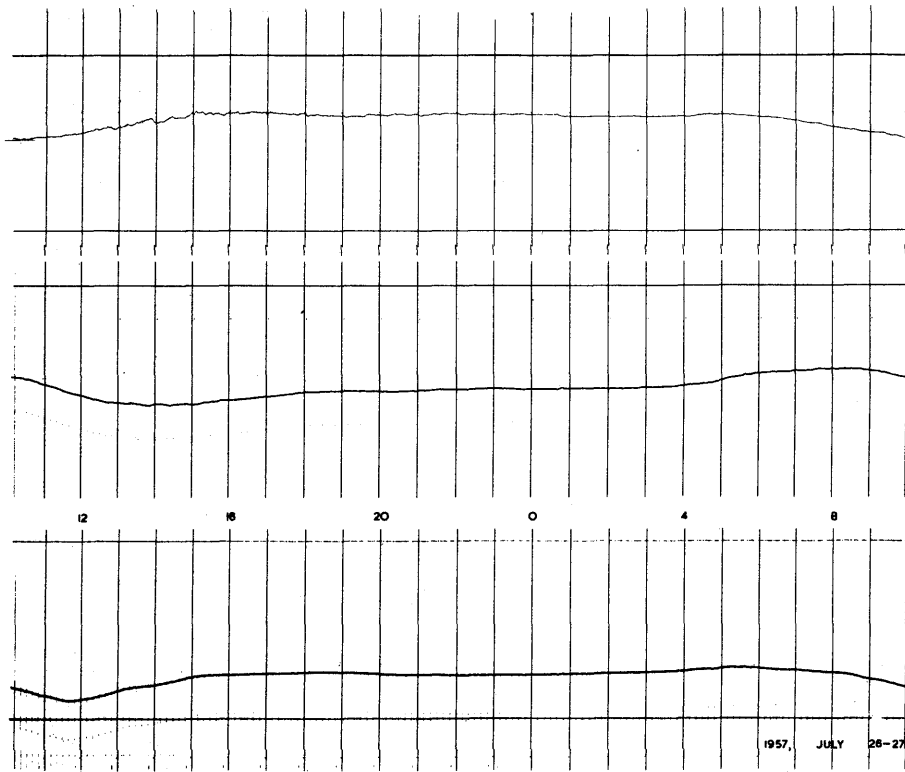
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JULY 24-25

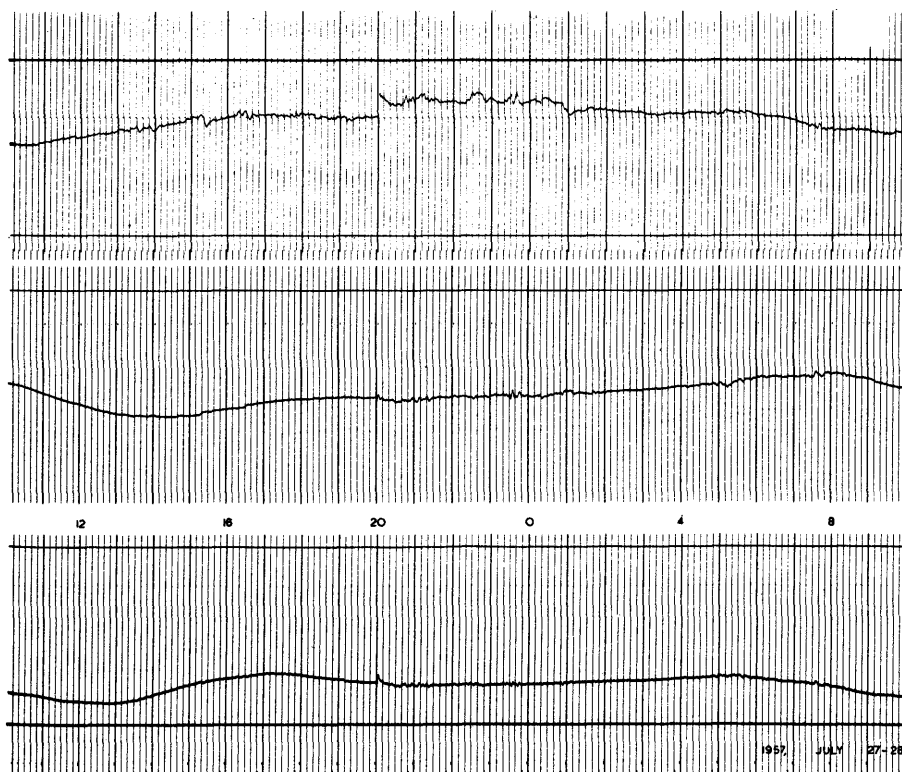


JULY 25-26



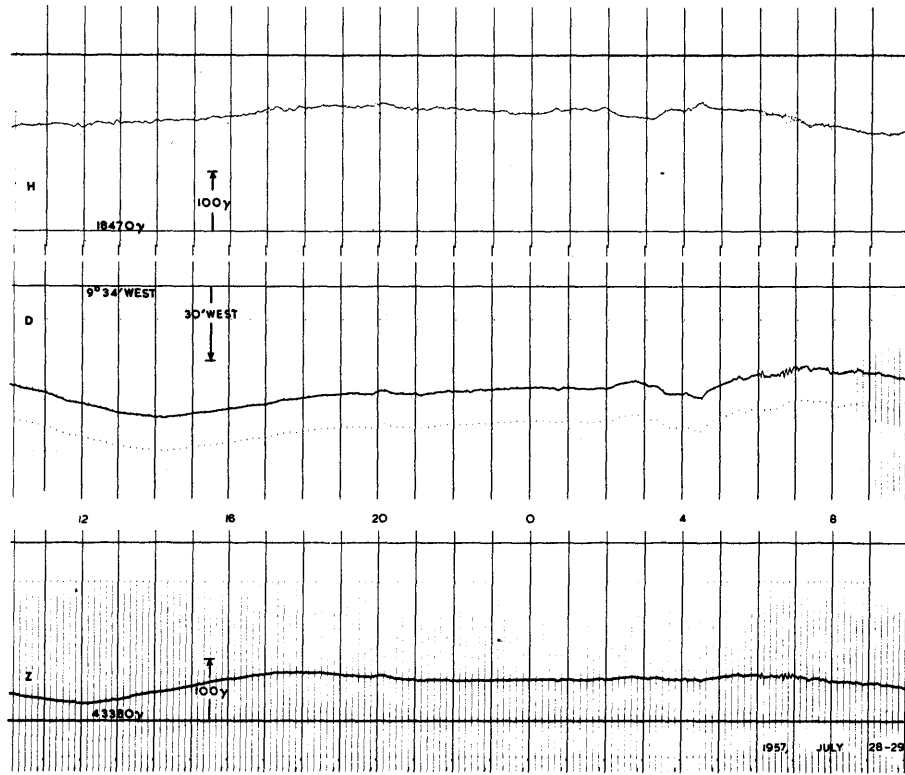
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JULY 26-27

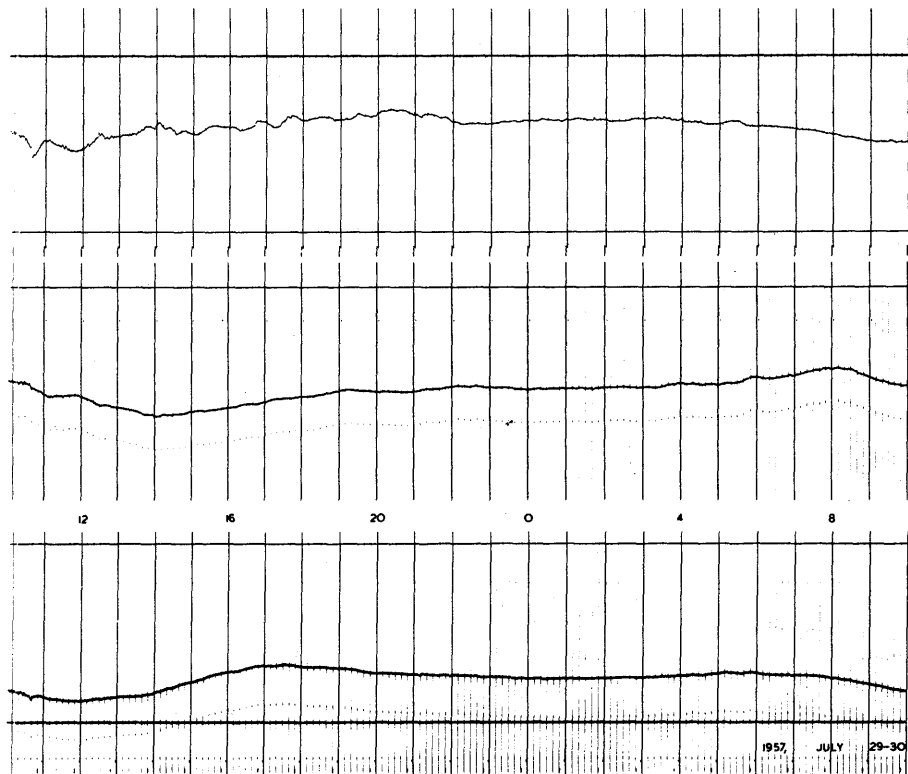


JULY 27-28

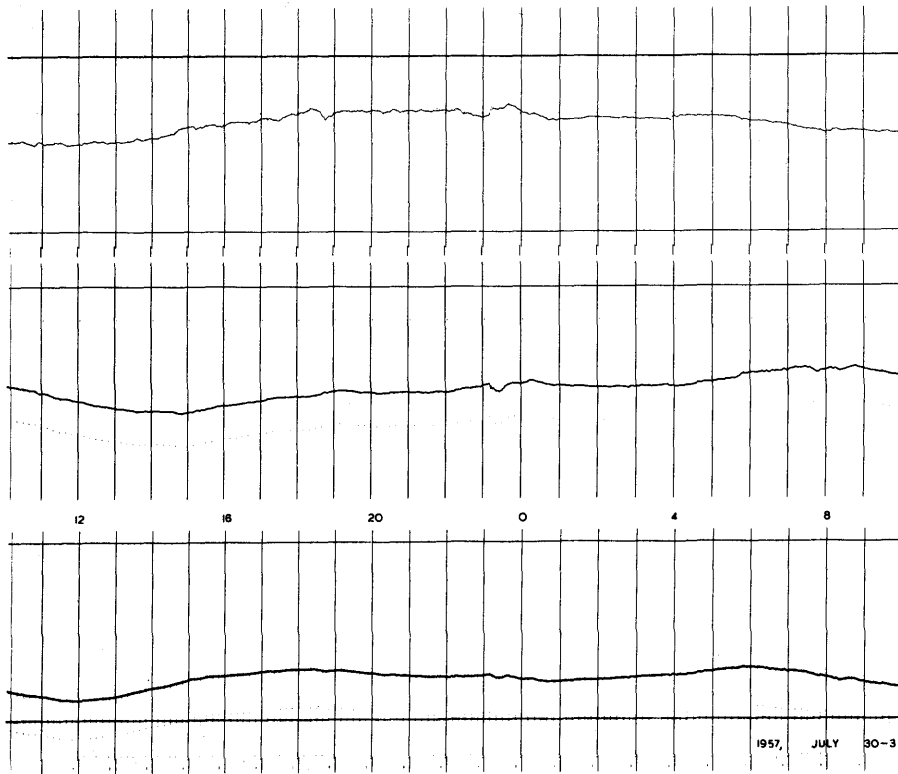
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JULY 28-29

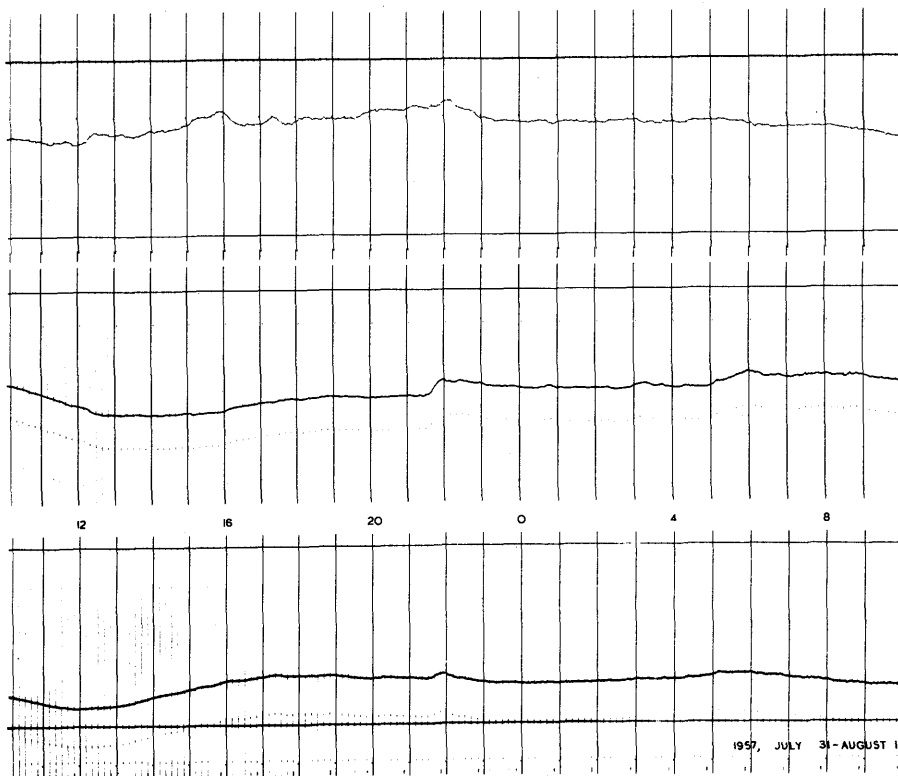


JULY 29-30



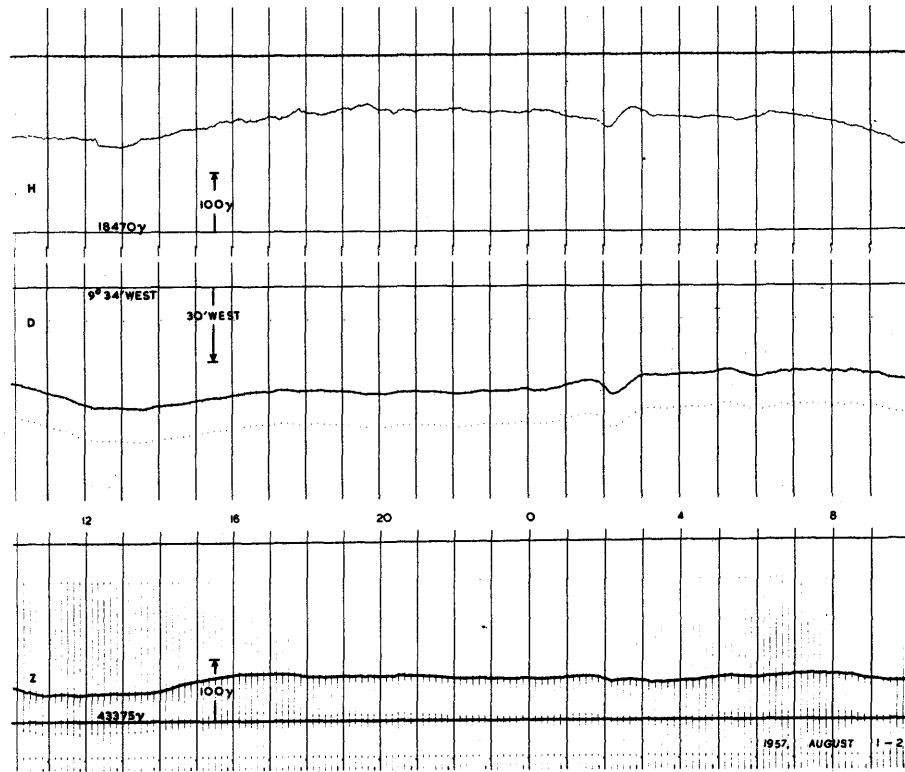
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JULY 30-31

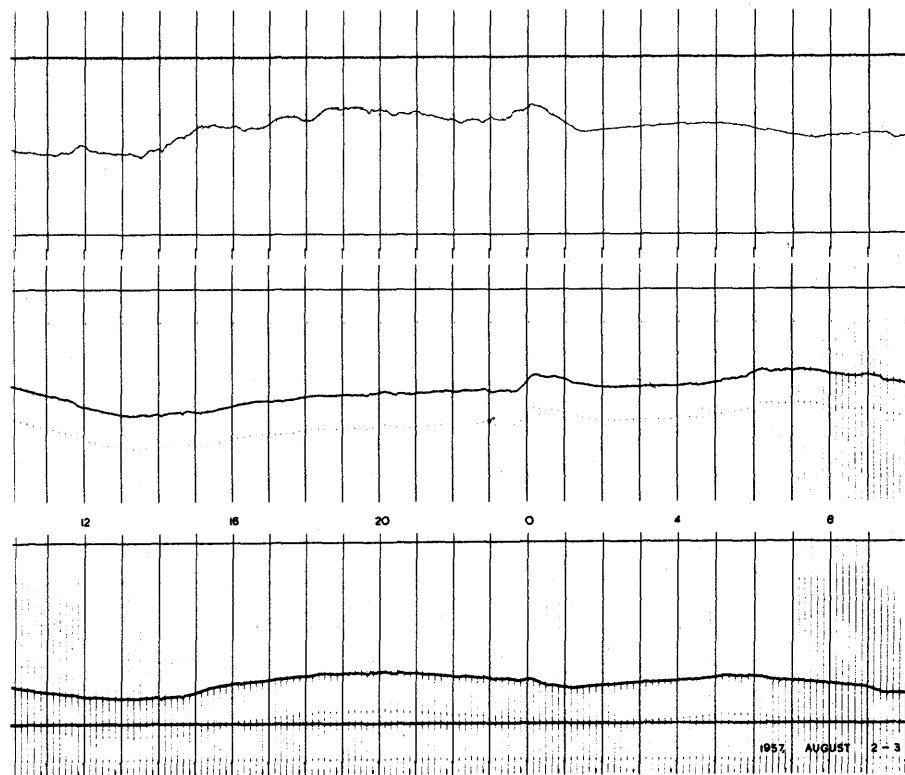


JUL. 31-AUG. 1

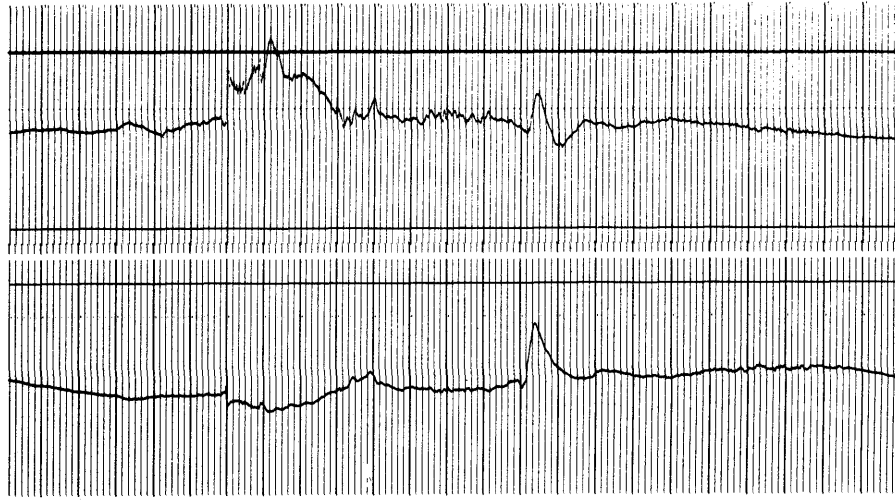
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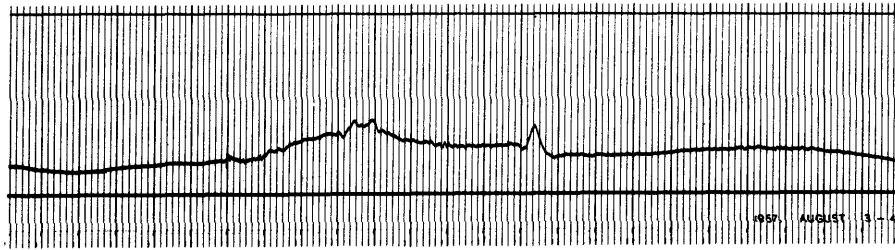
AUGUST 1-2



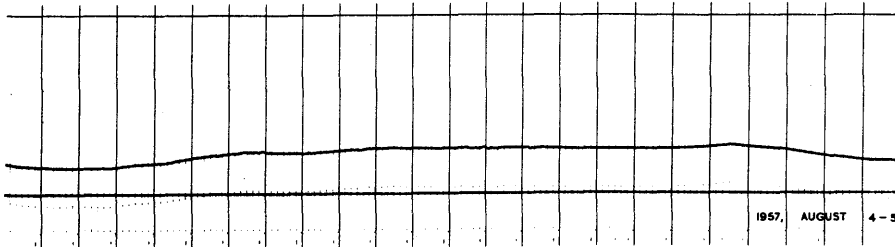
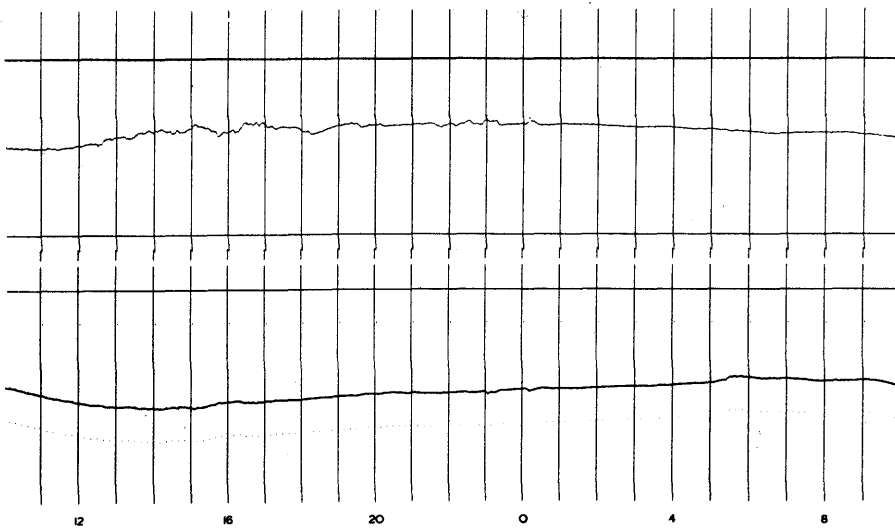
AUGUST 2-3



1957

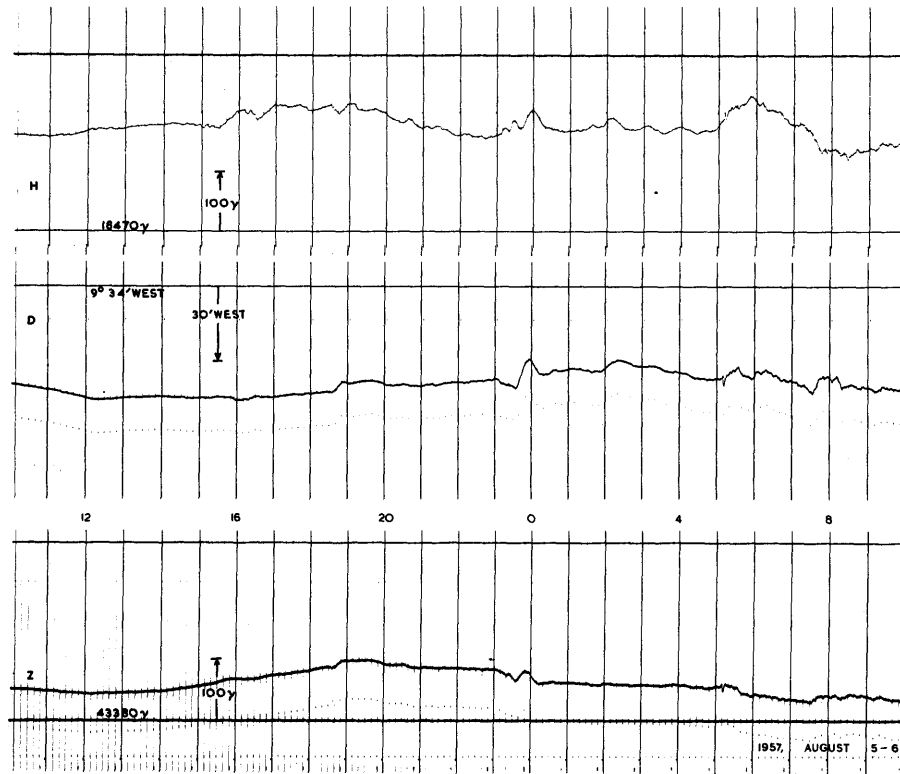


AUGUST 3-4

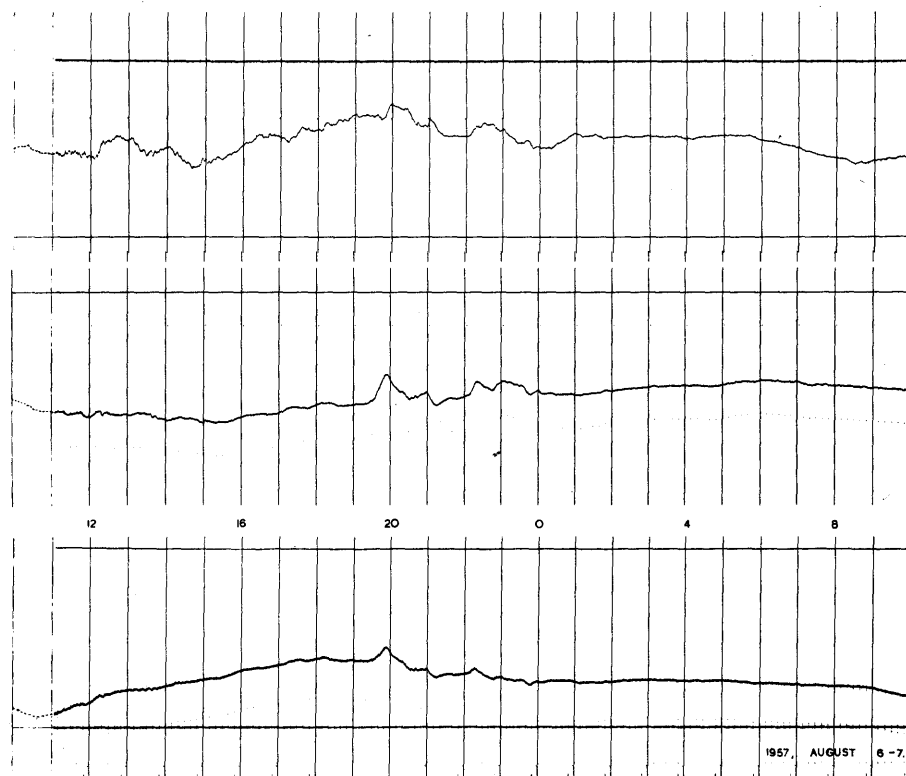


AUGUST 4-5

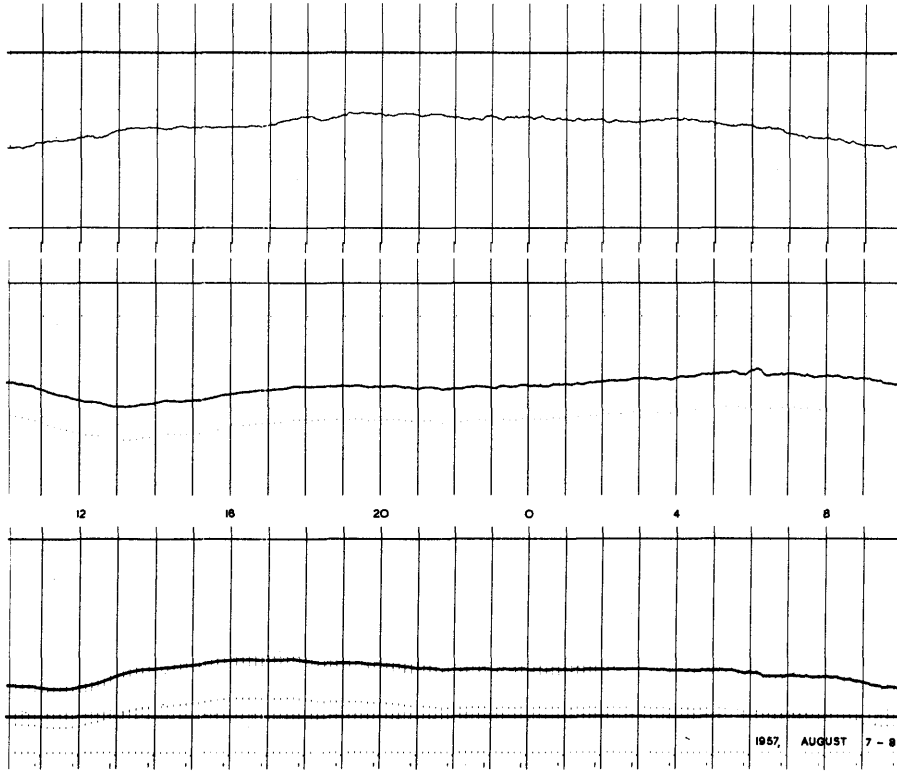
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AUGUST 5-6

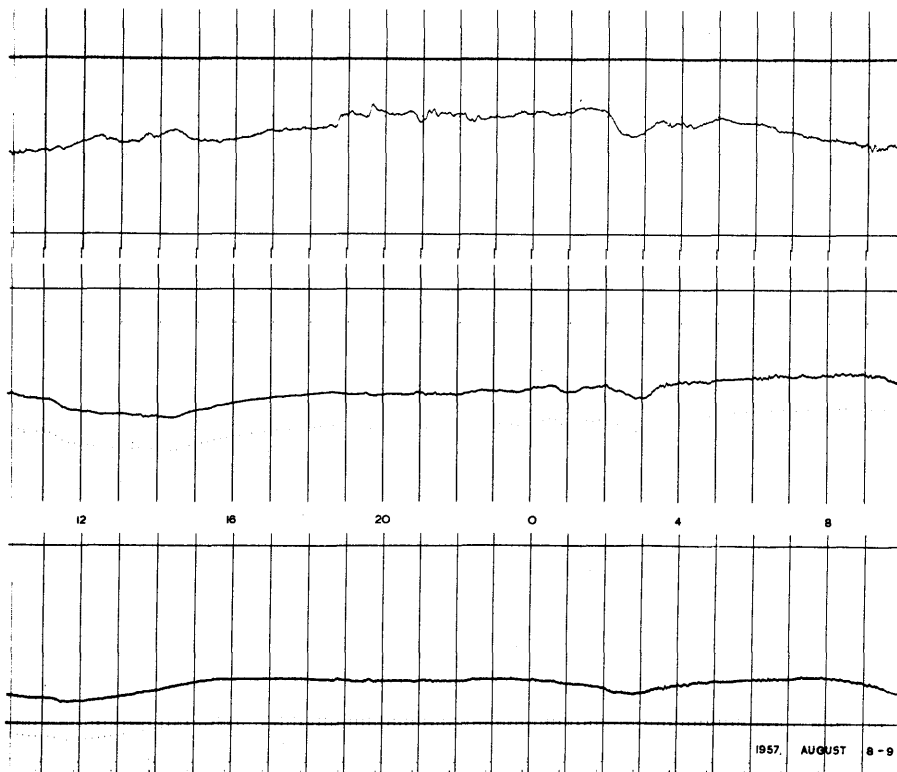


AUGUST 6-7



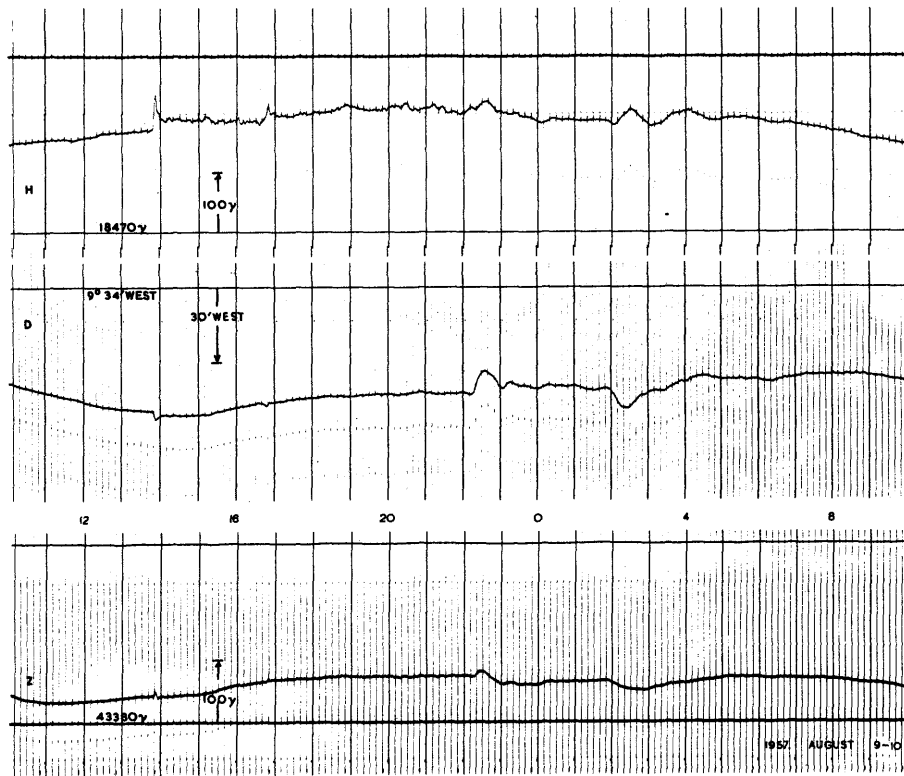
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AUGUST 7-8

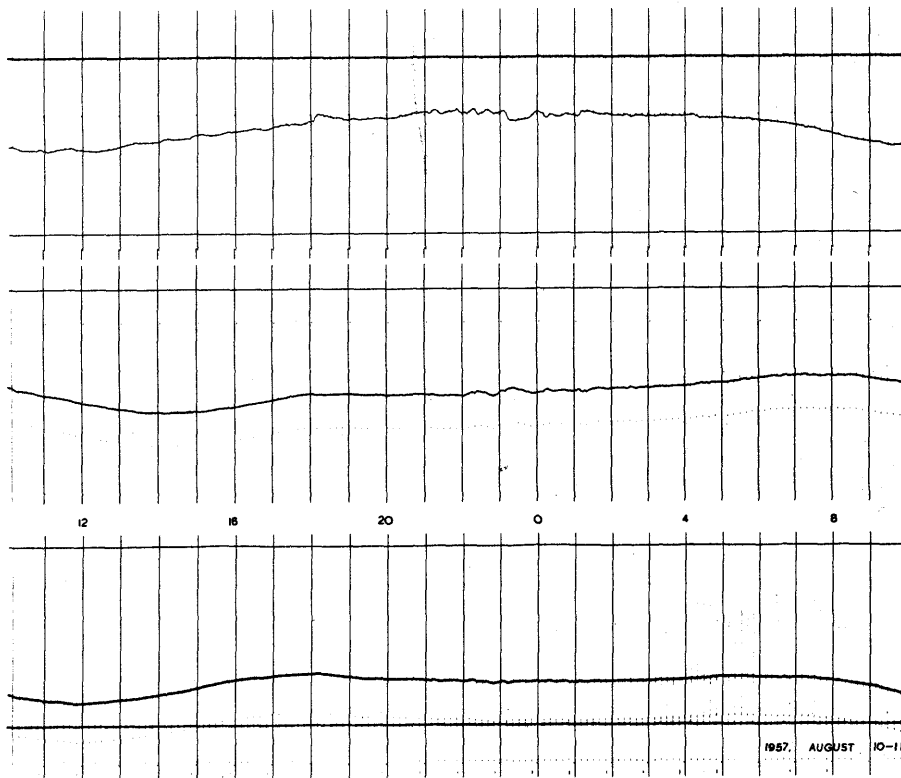


AUGUST 8-9

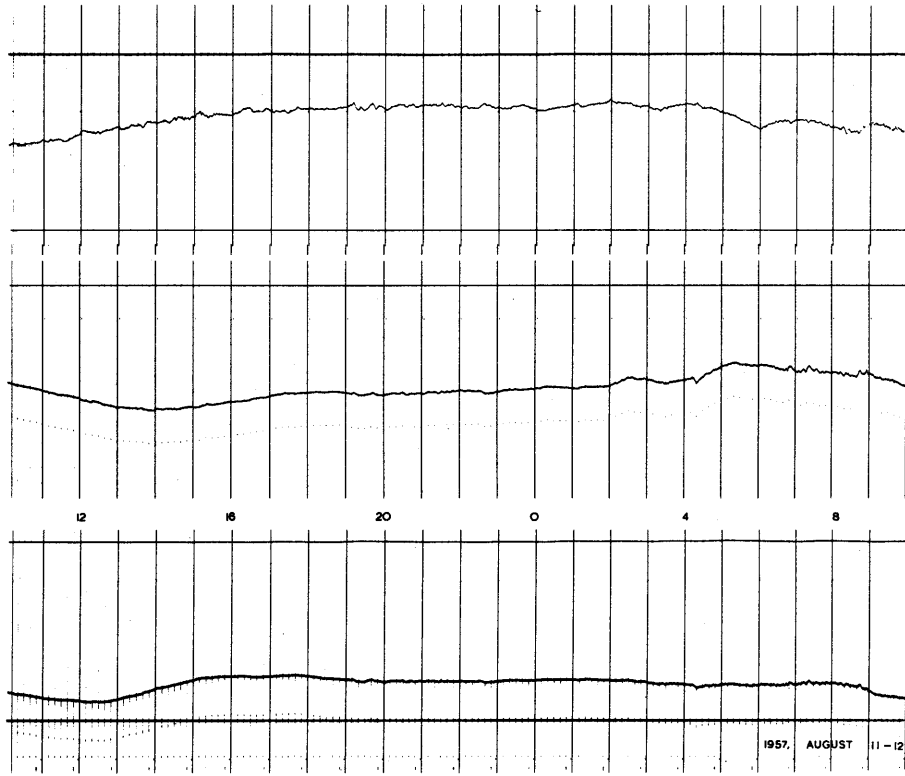
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AUGUST 9-10

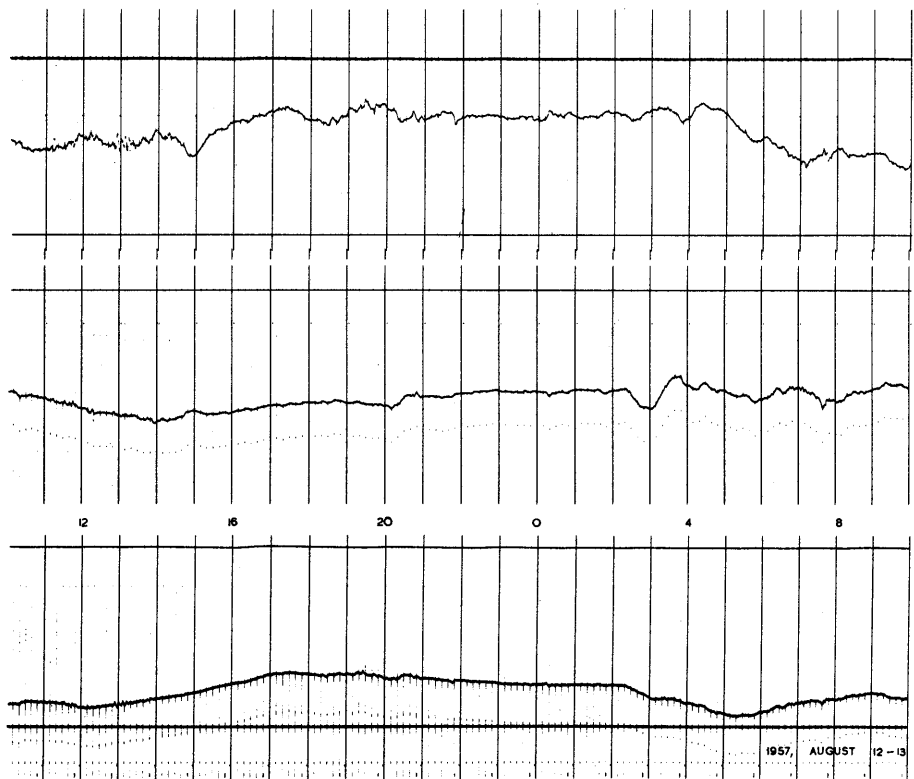


AUGUST 10-11



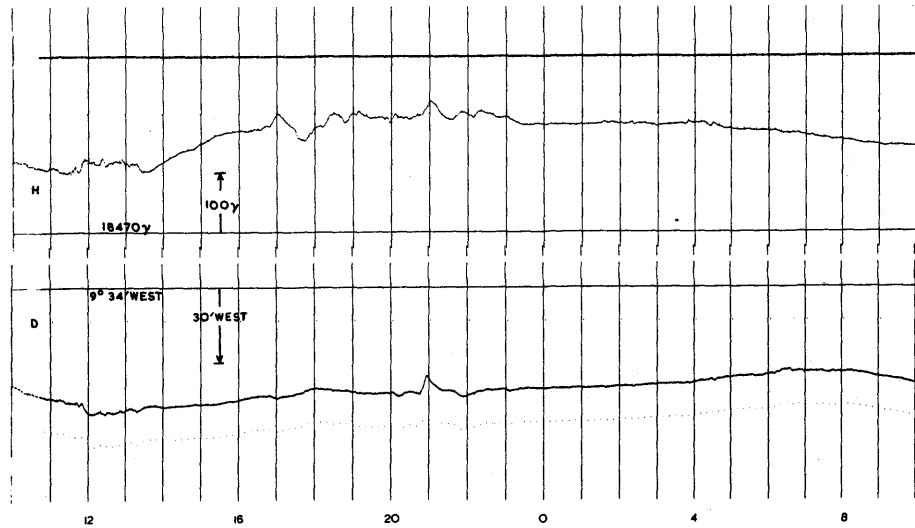
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AUGUST 11-12

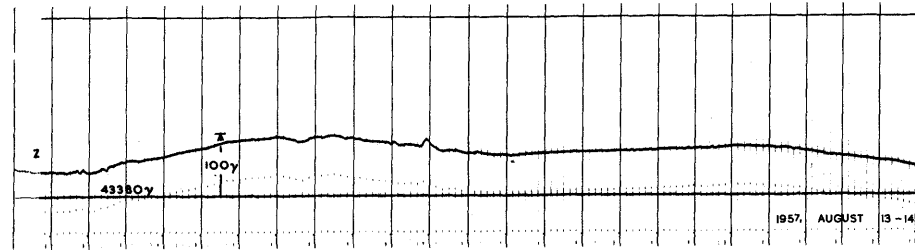


AUGUST 12-13

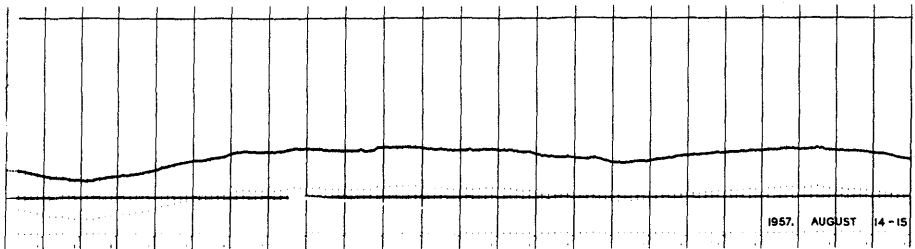
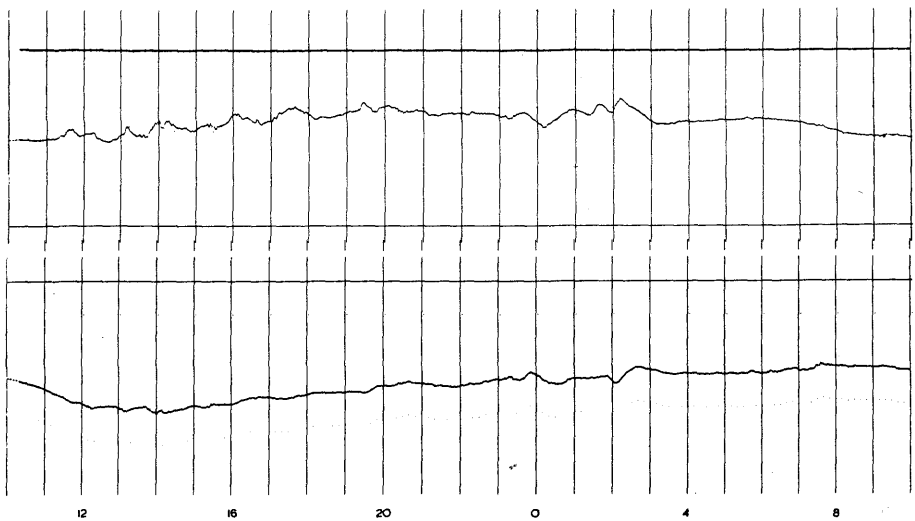
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AUGUST 13-14



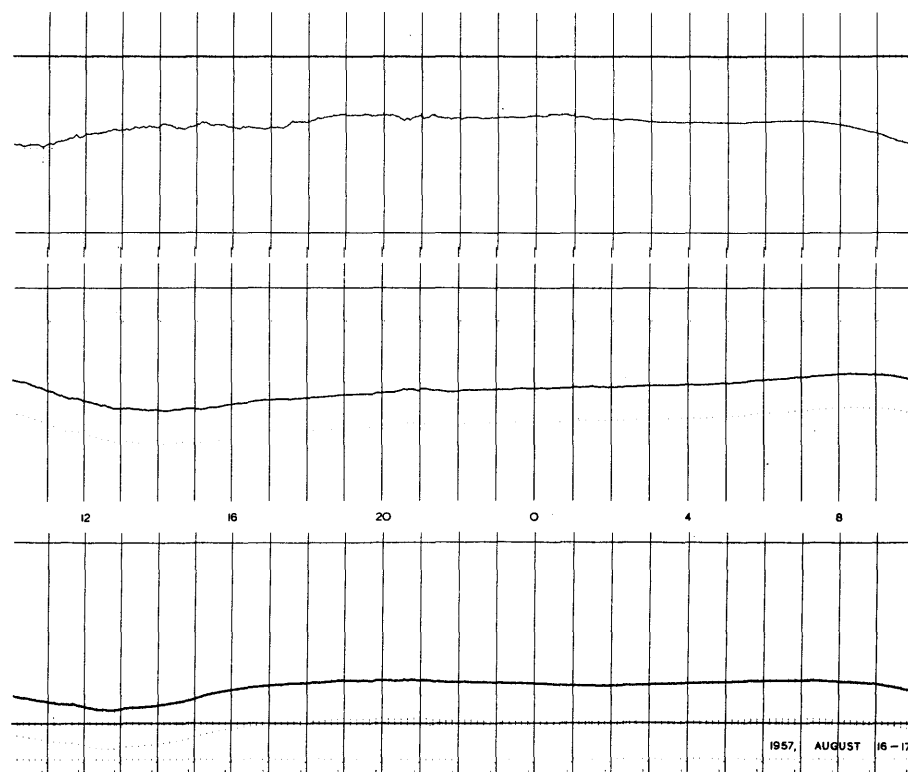
AUGUST 14-15





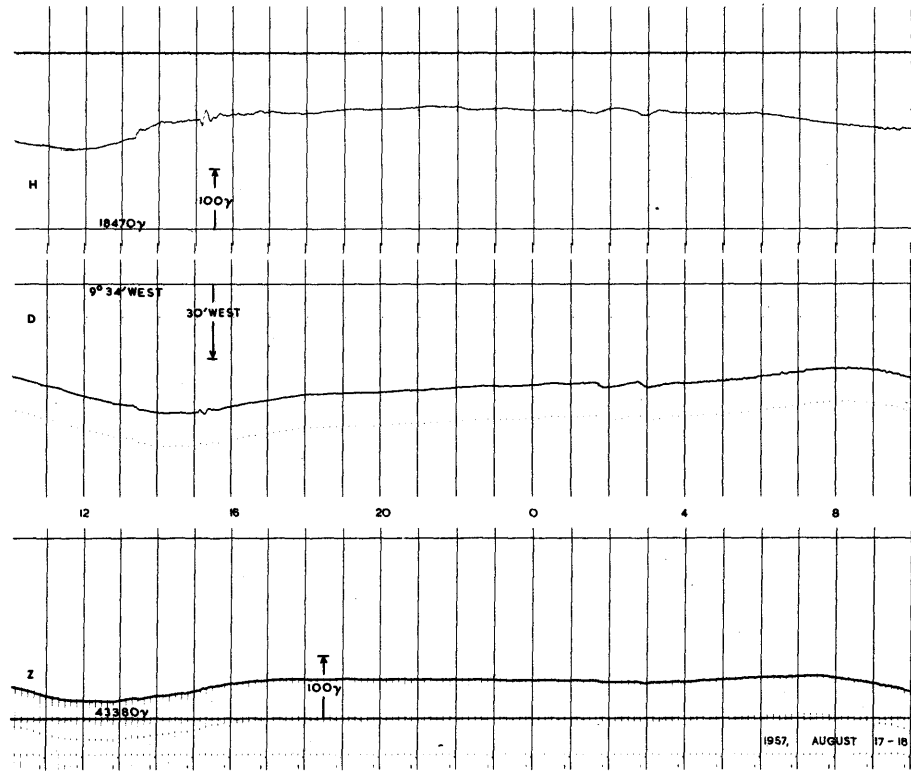
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AUGUST 15-16

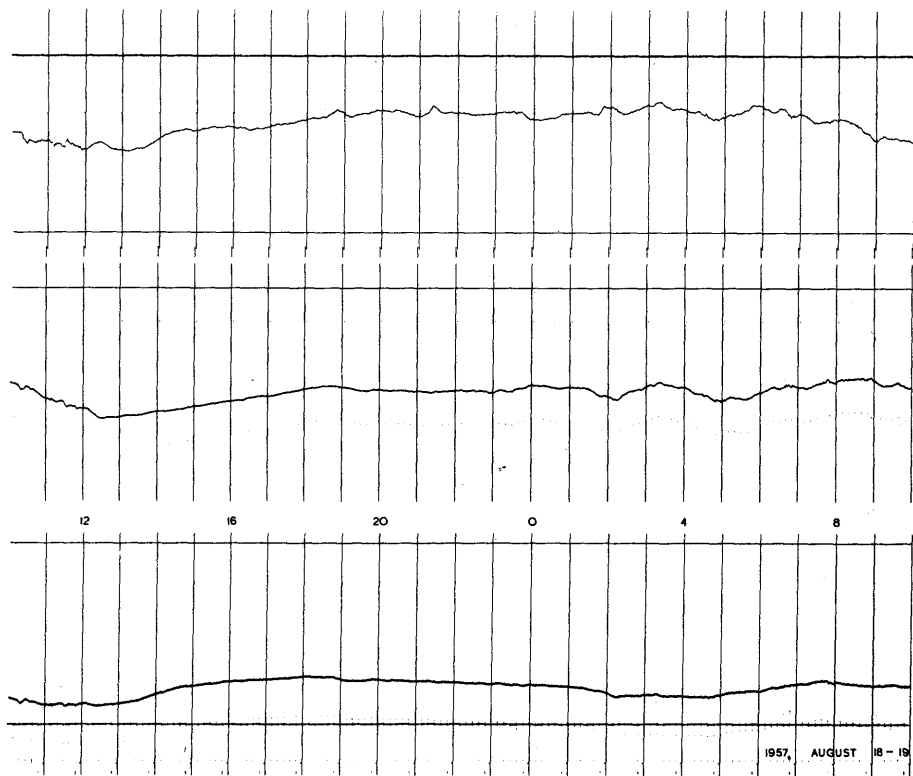


AUGUST 16-17

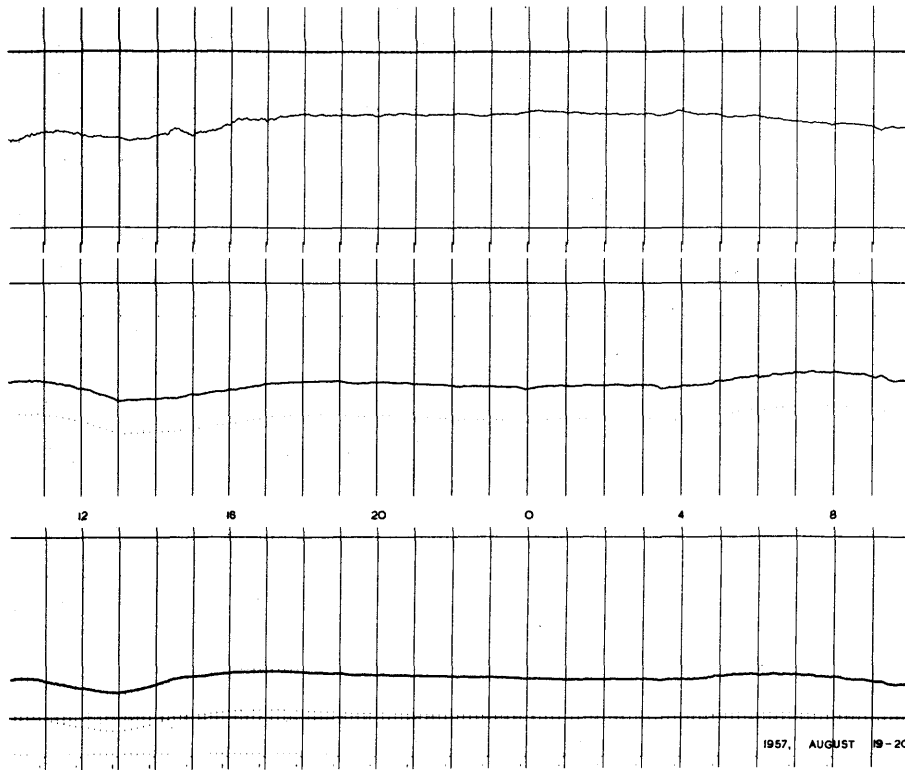
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AUGUST 17-18

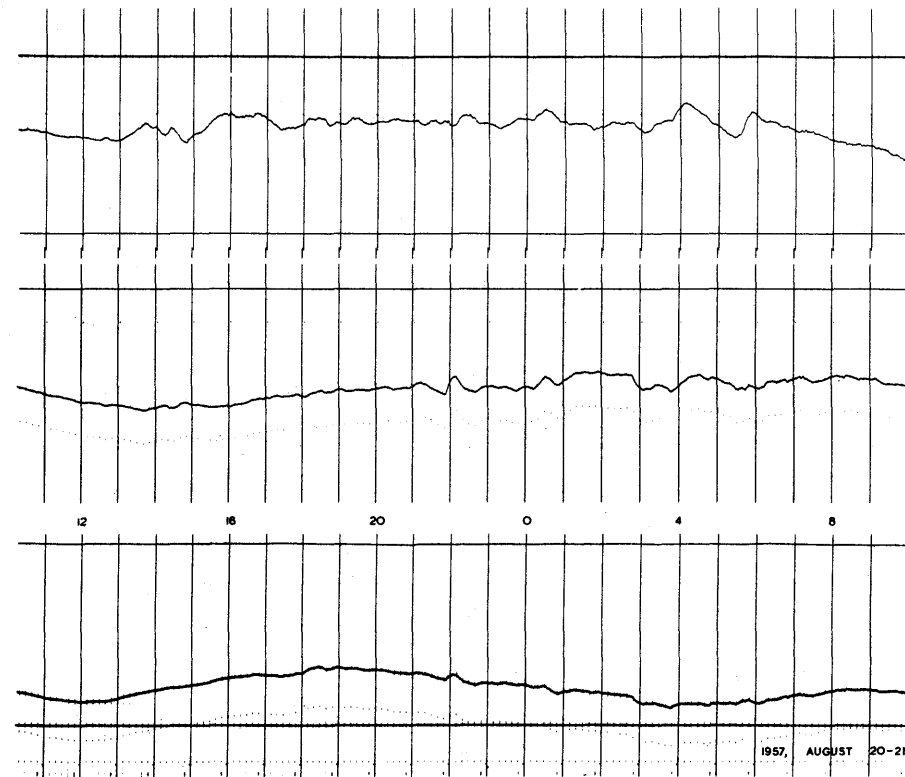


AUGUST 18-19



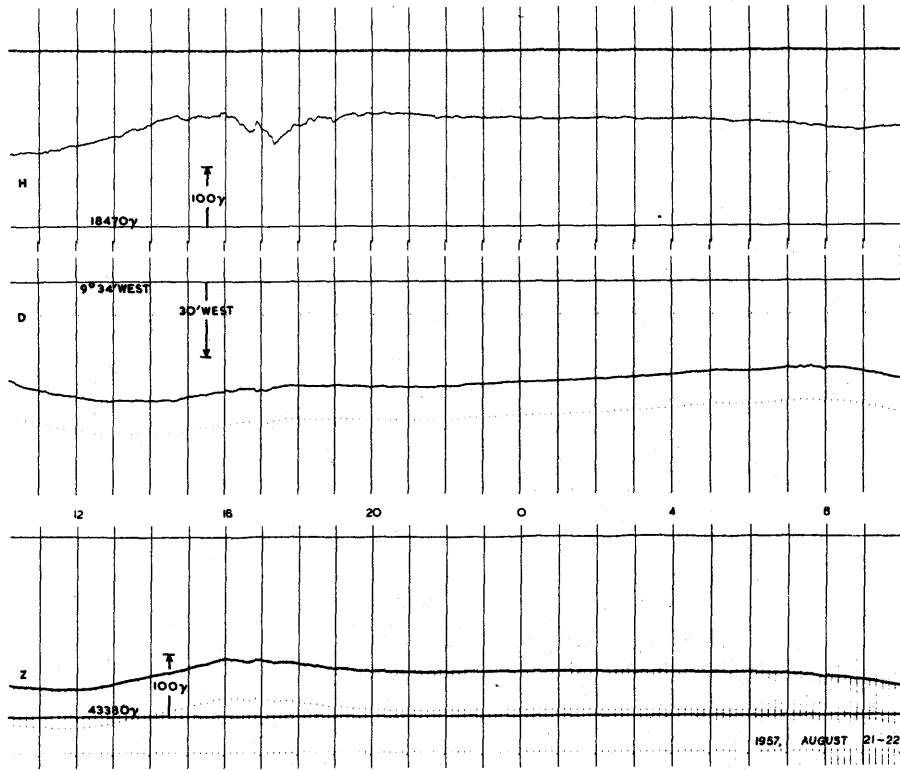
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AUGUST 19-20

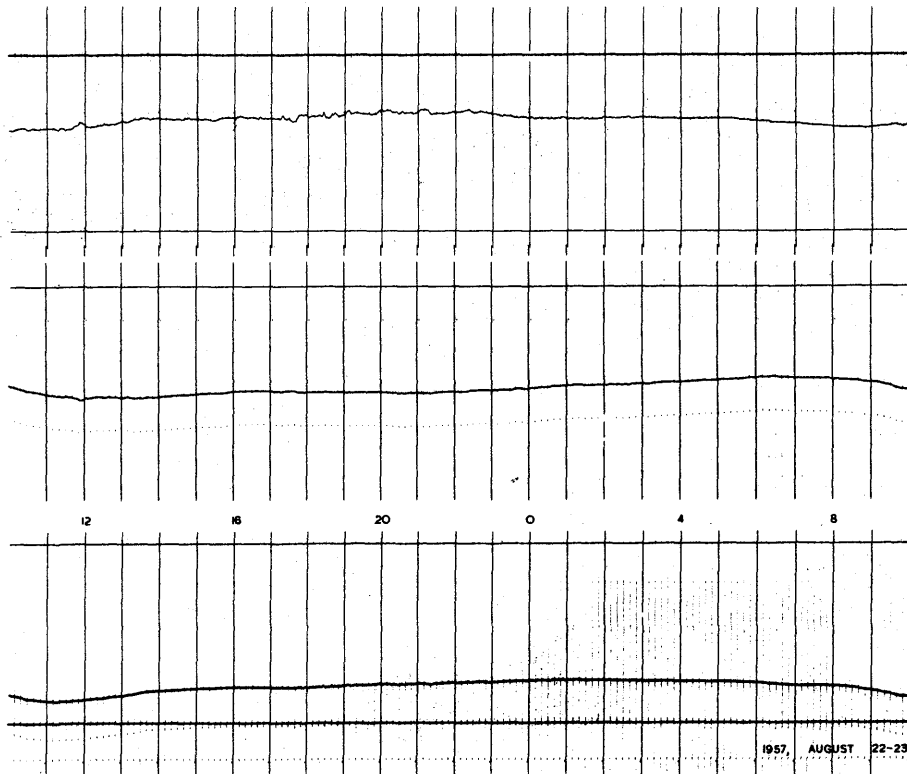


AUGUST 20-21

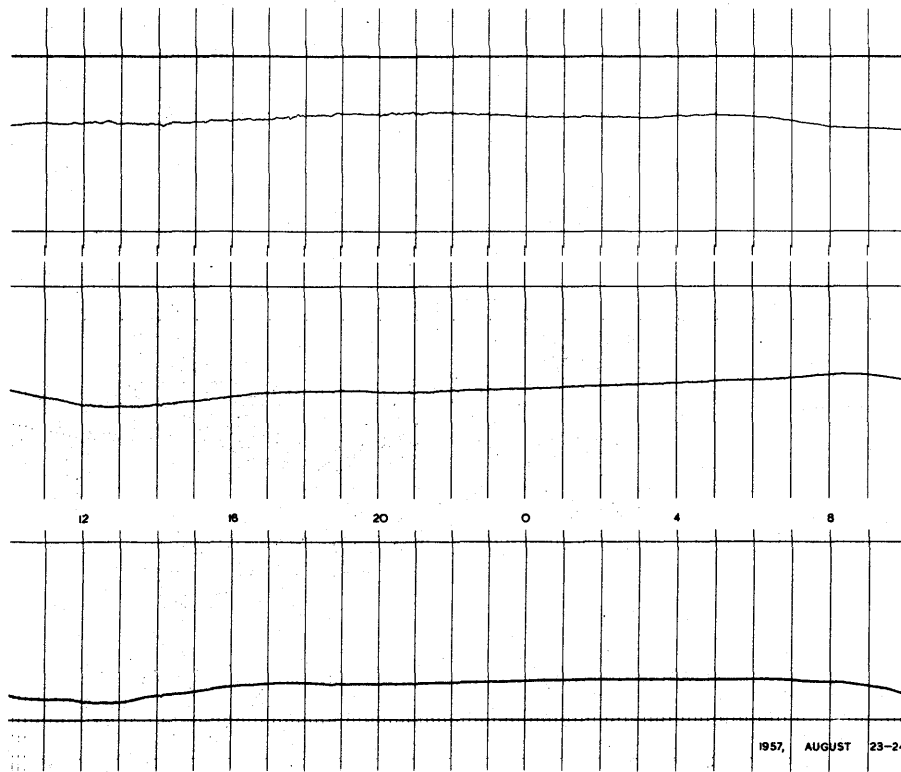
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AUGUST 21-22

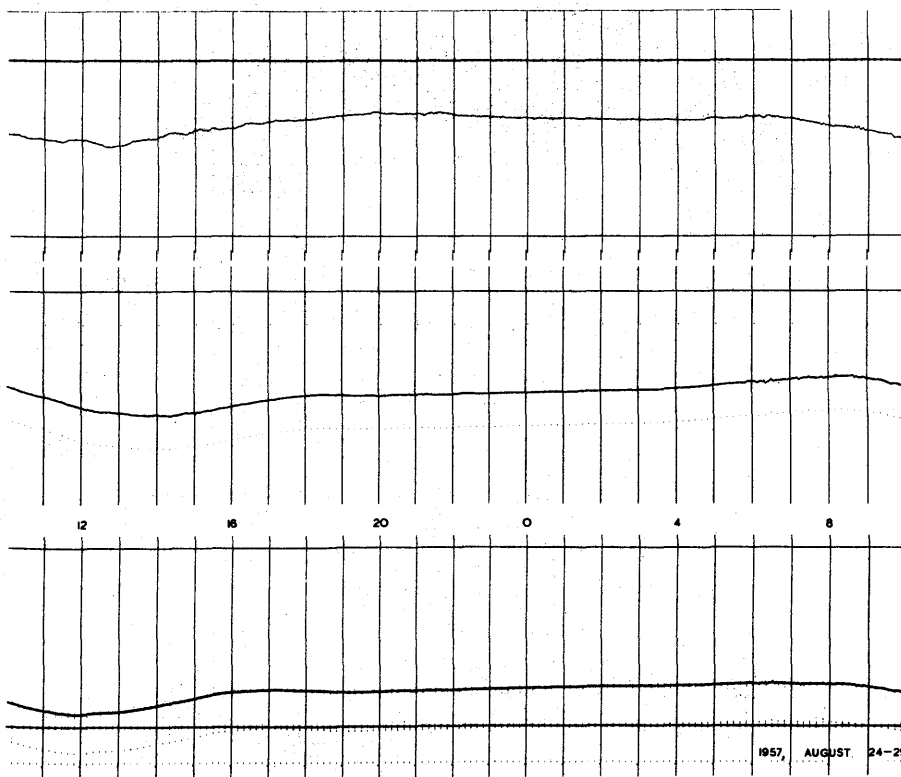


AUGUST 22-23



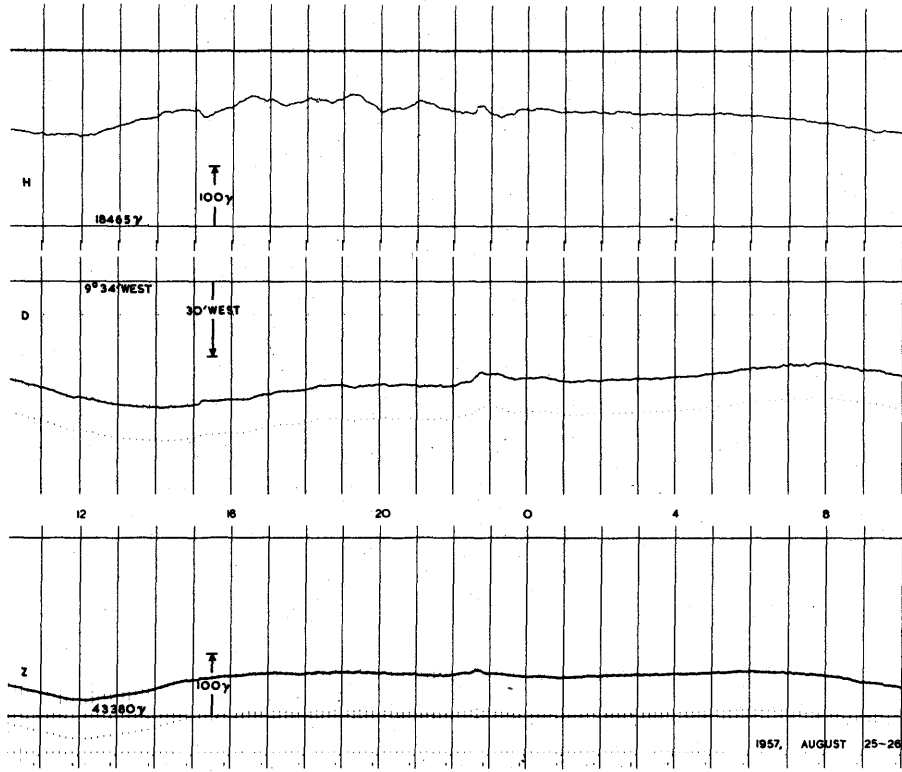
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AUGUST 23-24

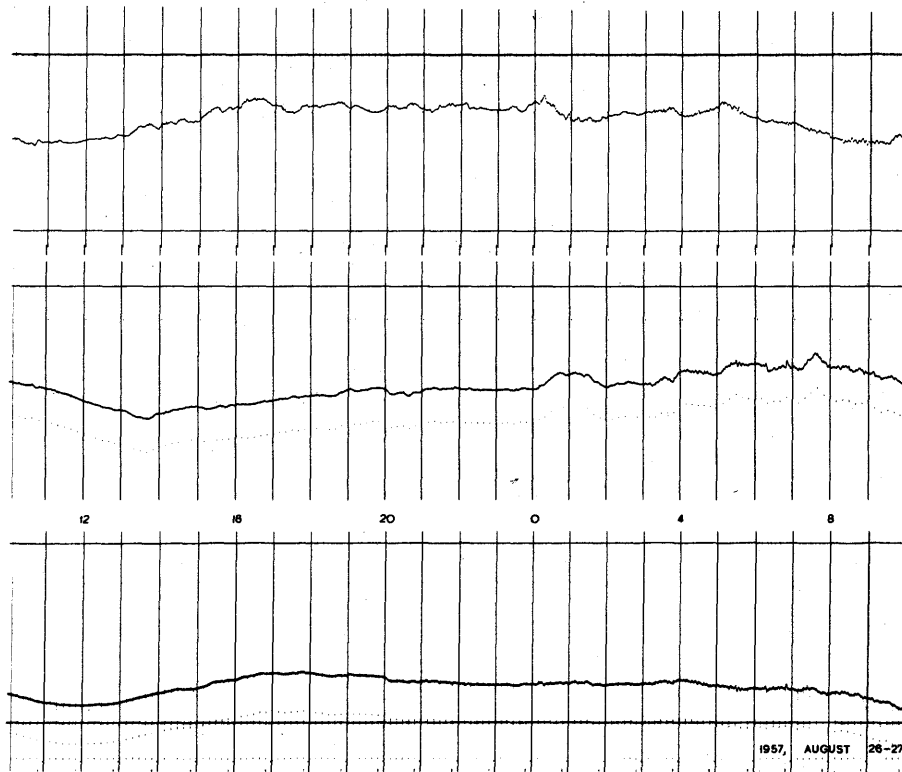


AUGUST 24-25

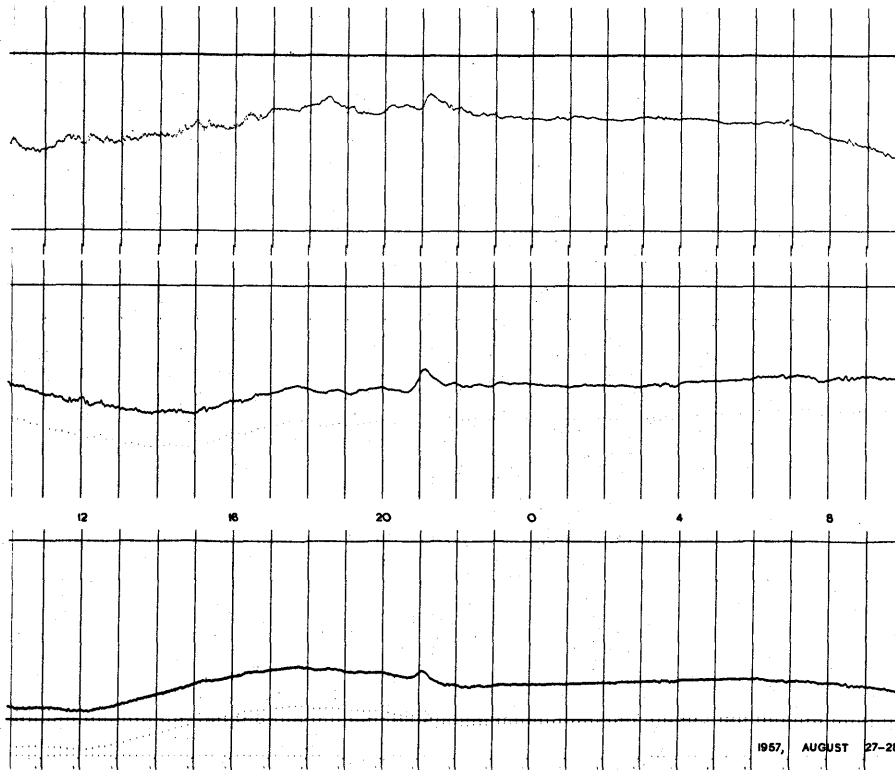
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AUGUST 25-26

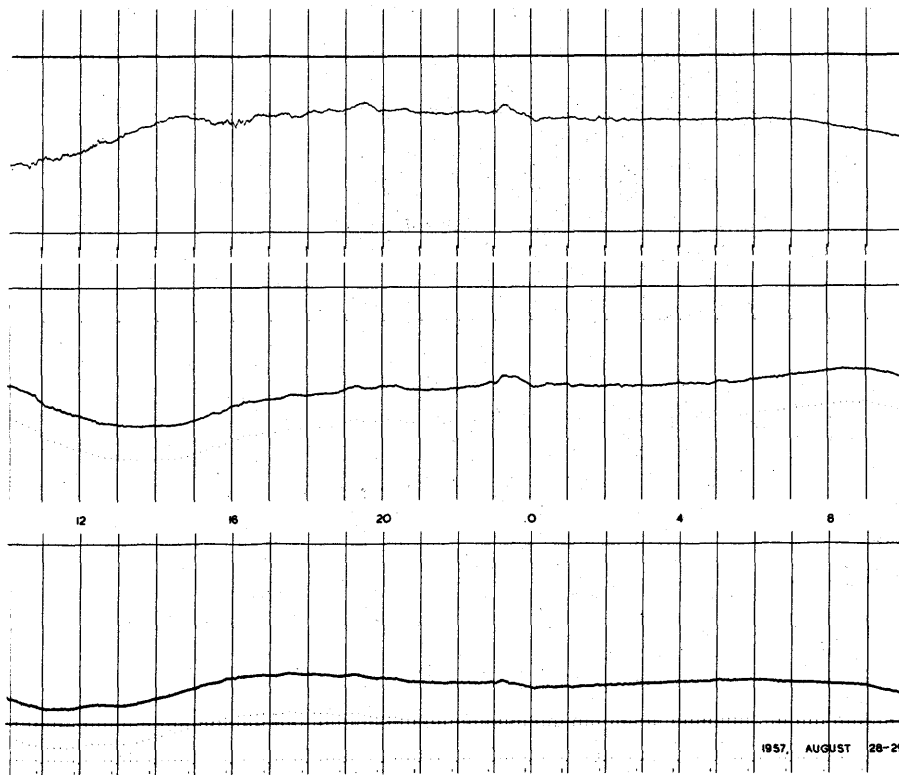


AUGUST 26-27



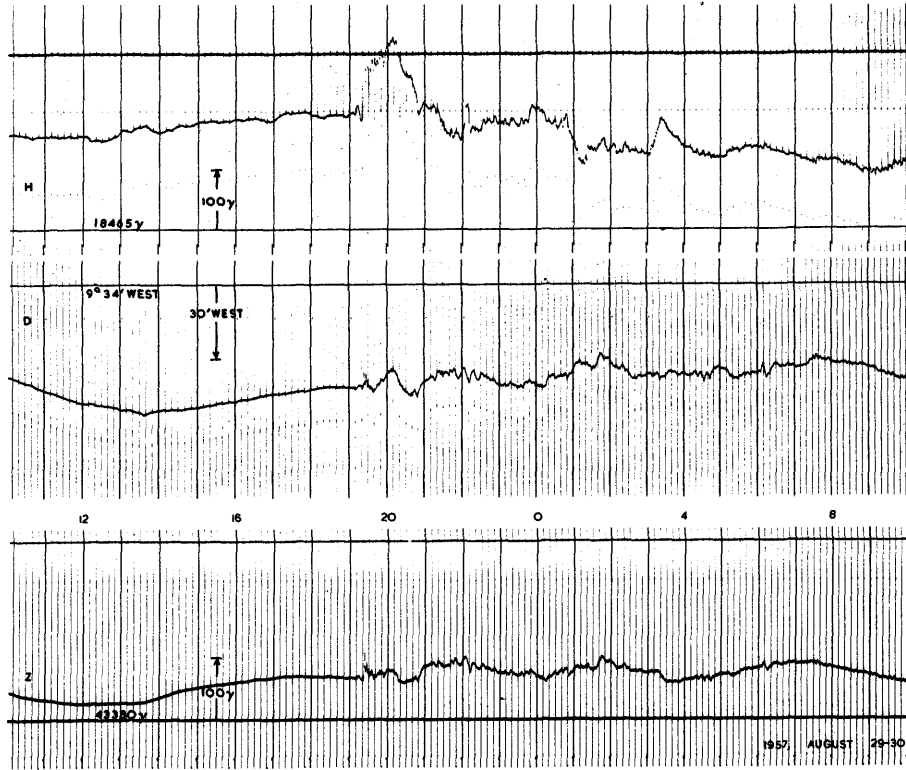
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AUGUST 27-28

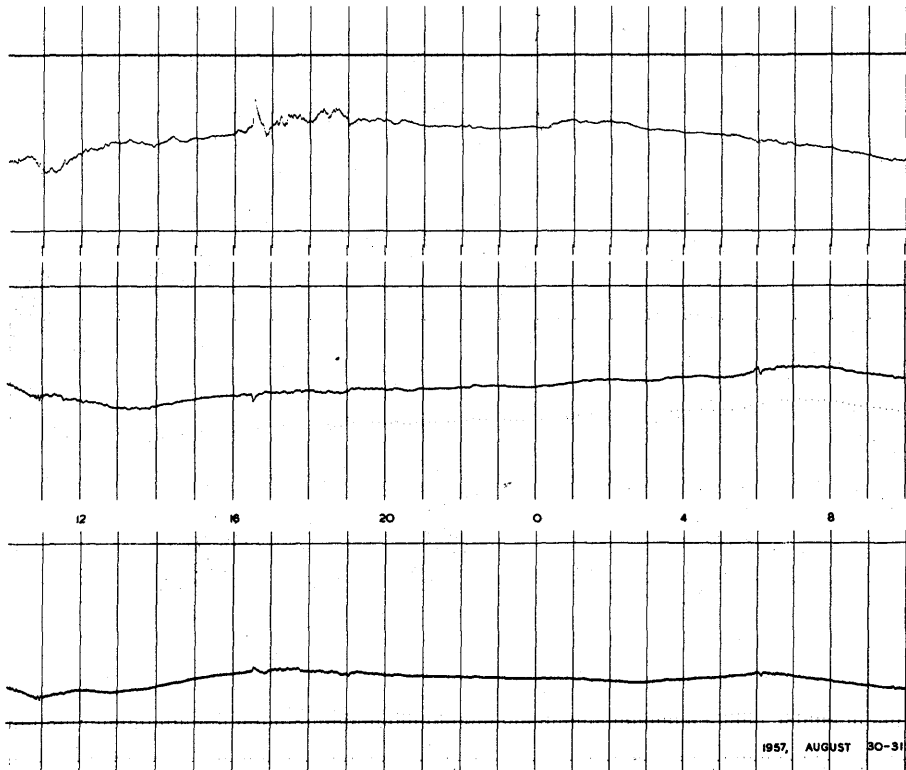


AUGUST 28-29

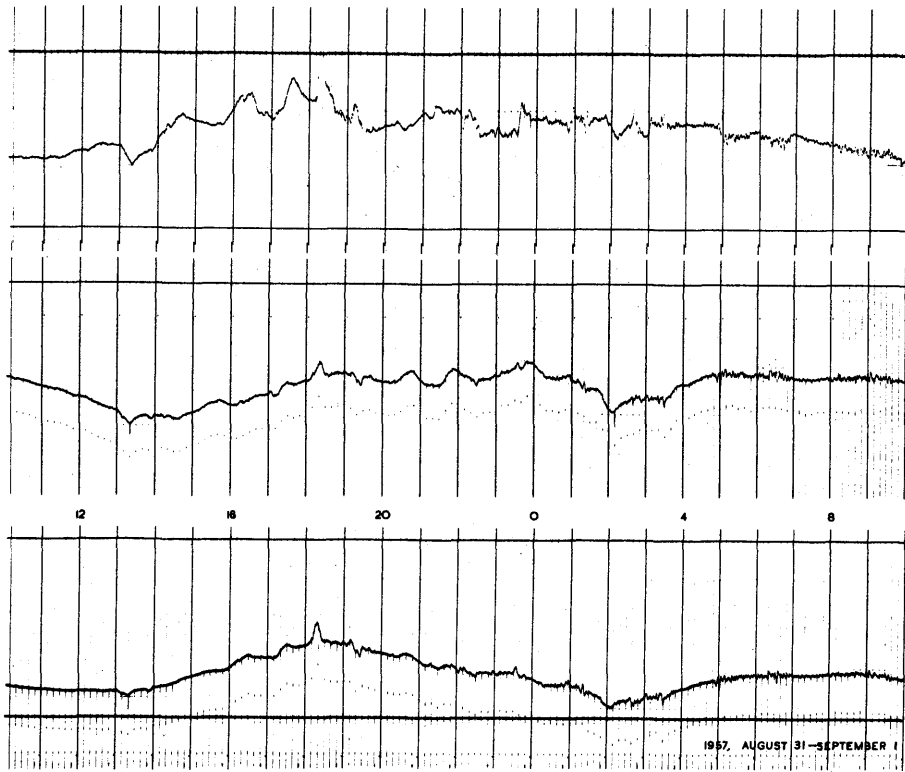
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AUGUST 29-30

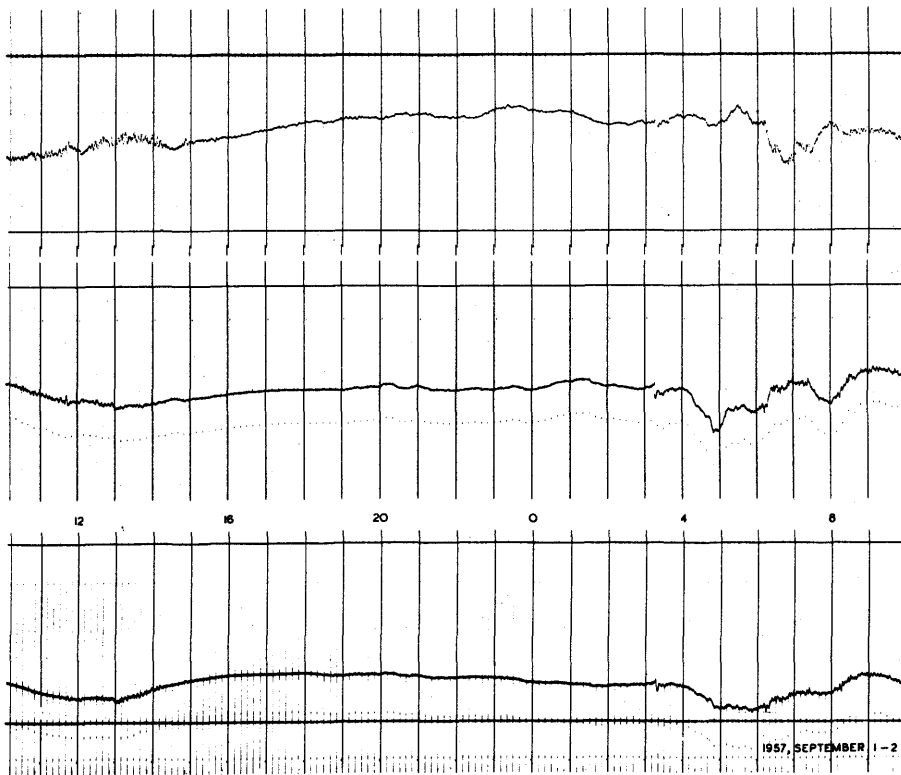


AUGUST 30-31



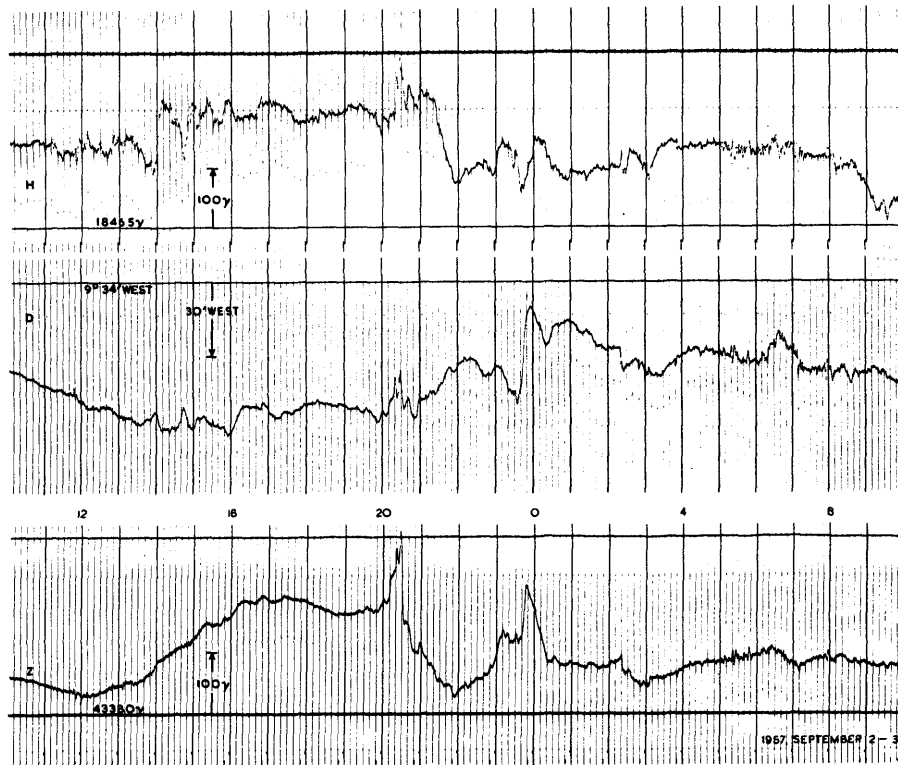
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AUG. 31 - SEPT. 1

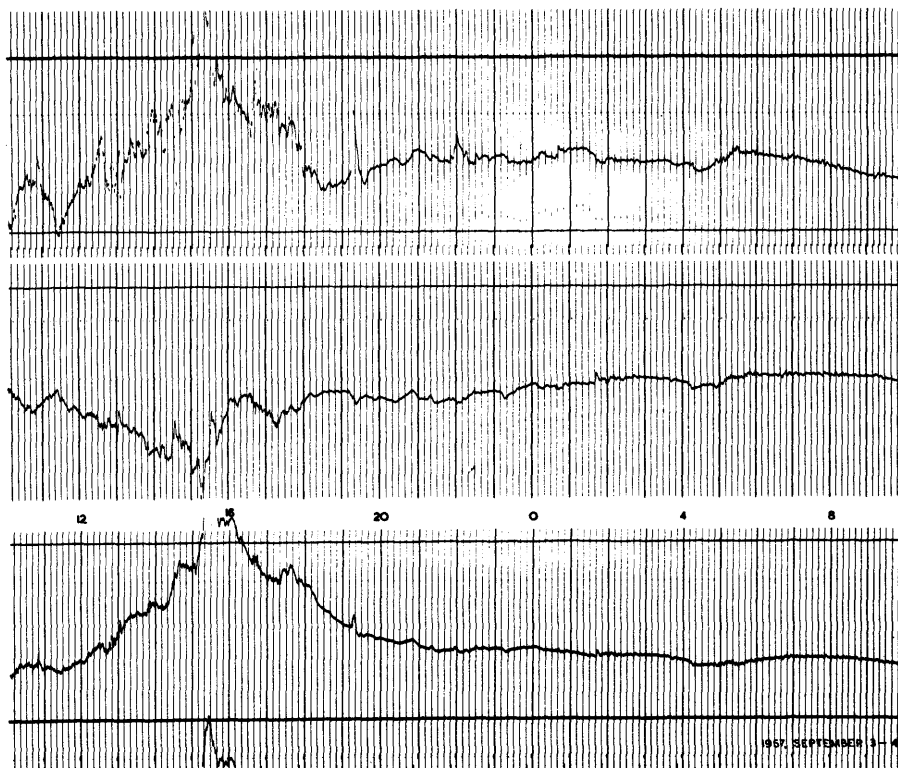


SEPTEMBER 1-2

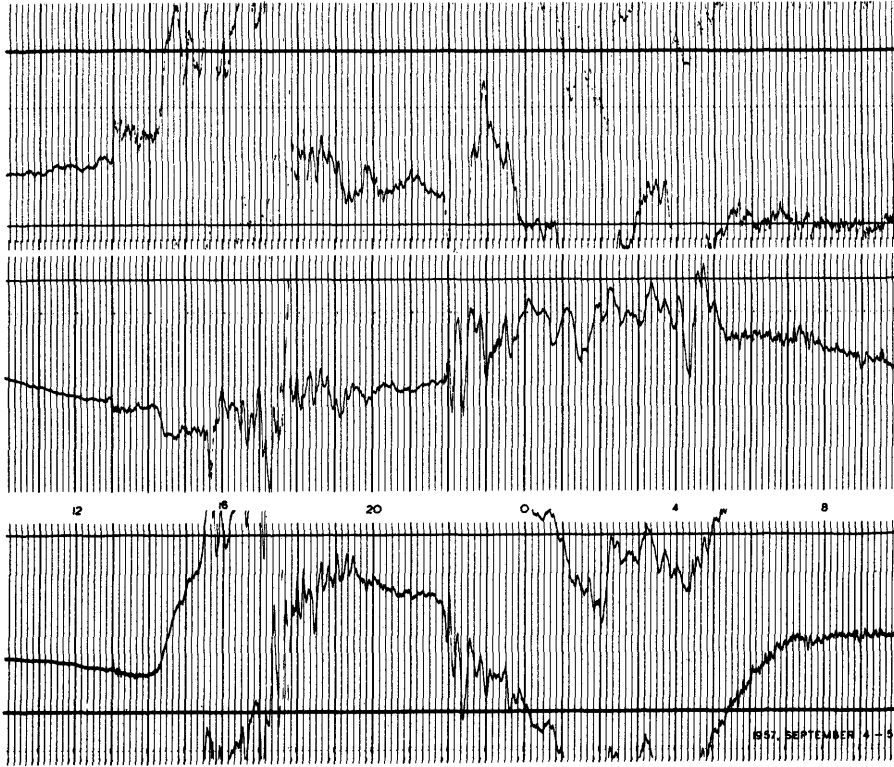
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SEPTEMBER 2-3

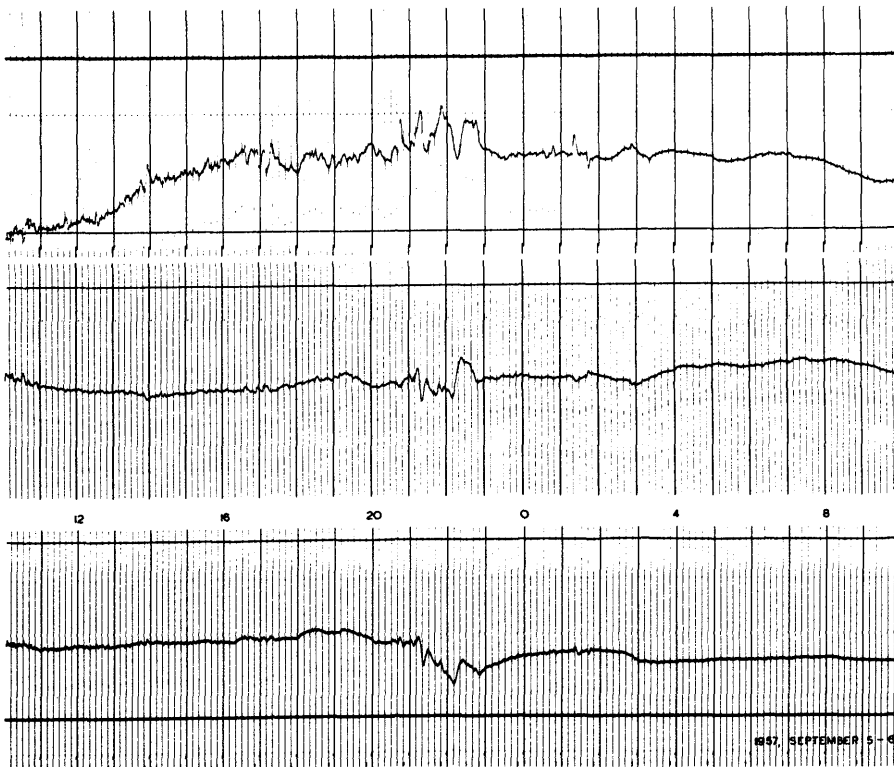


SEPTEMBER 3-4



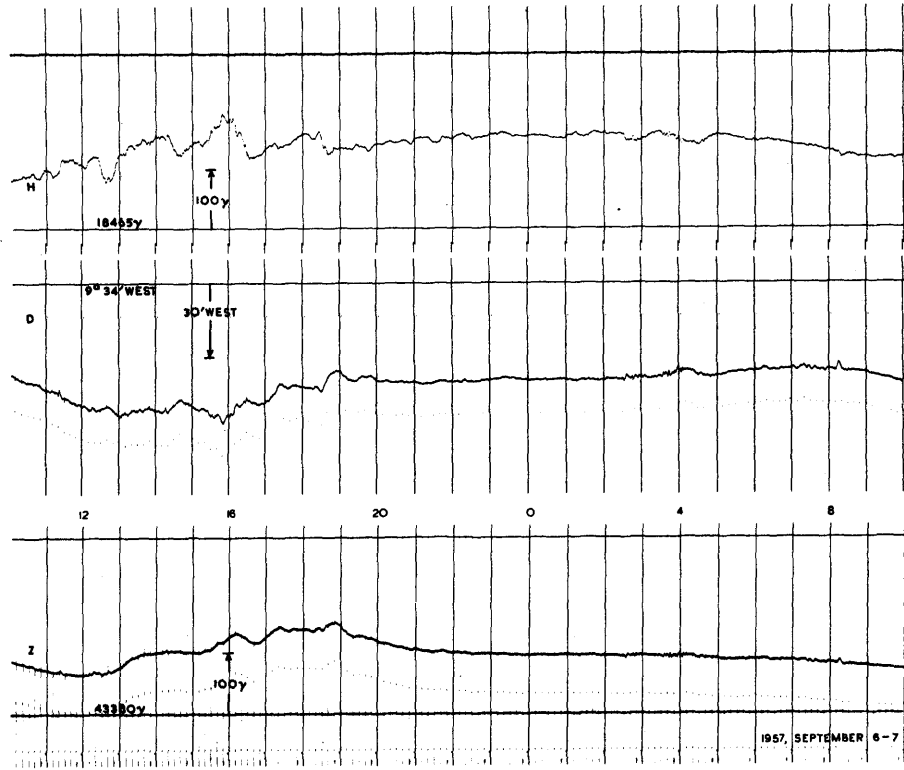
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SEPTEMBER 4-5



SEPTEMBER 5-6

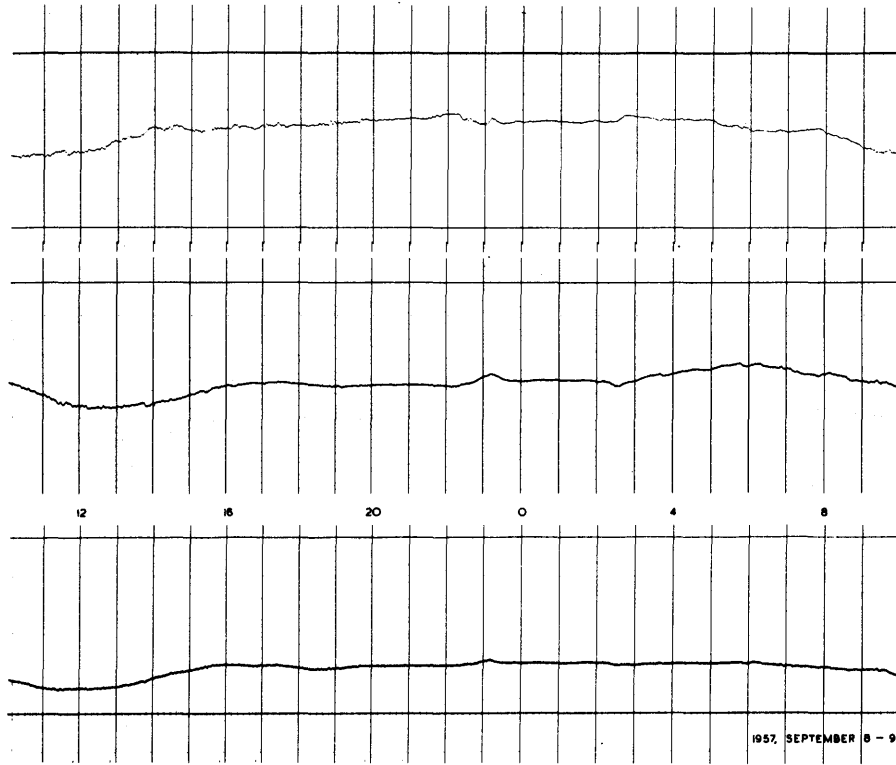
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SEPTEMBER 6-7

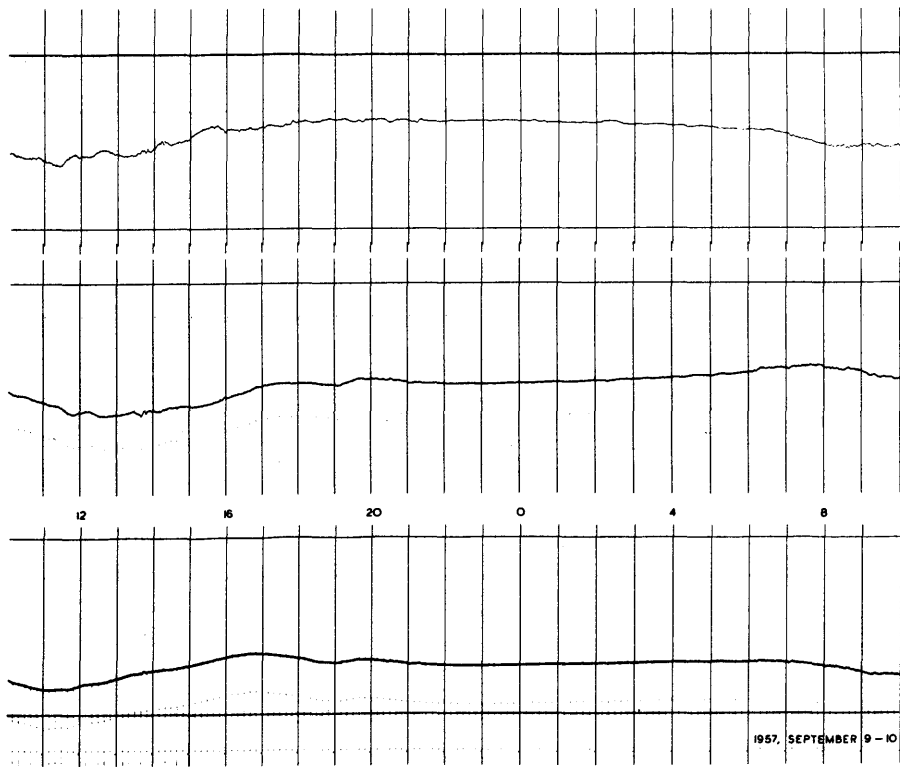


SEPTEMBER 7-8



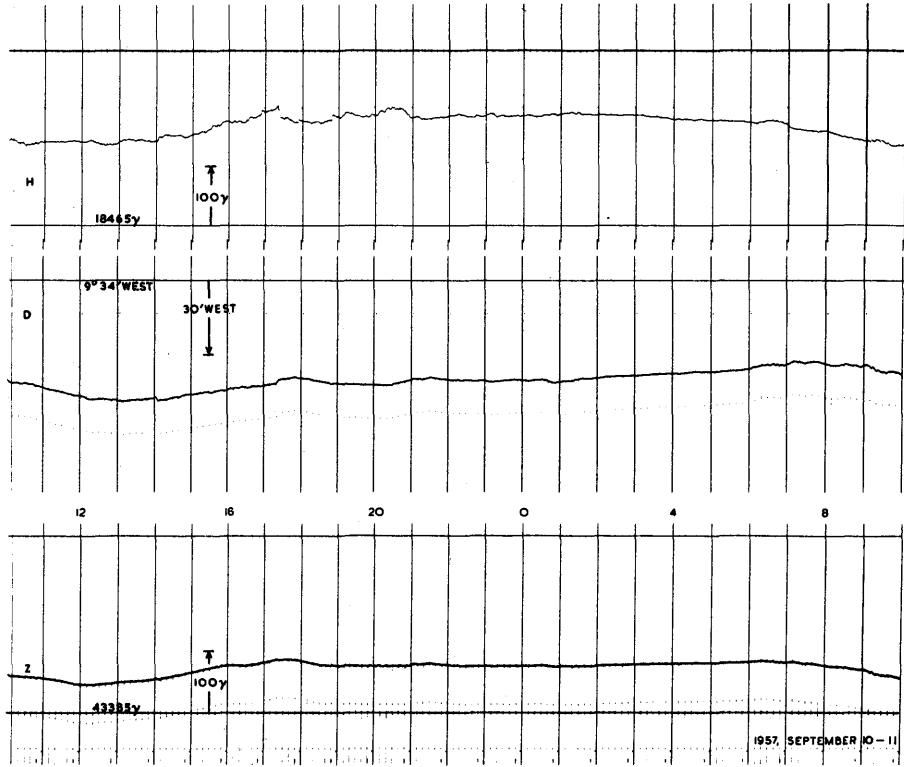
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SEPTEMBER 8-9

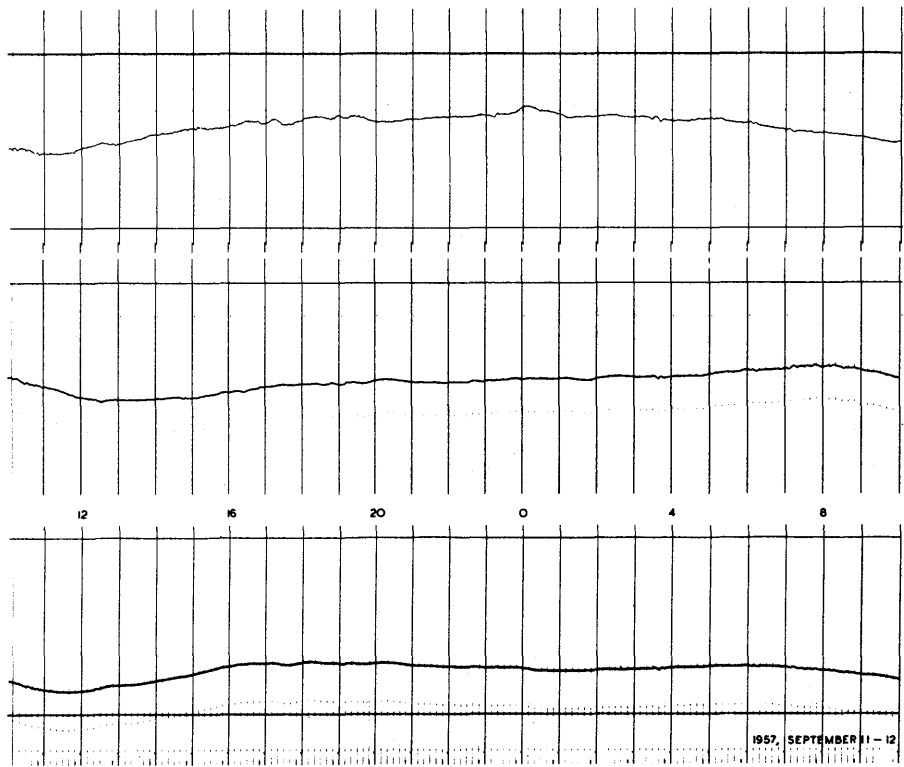


SEPTEMBER 9-10

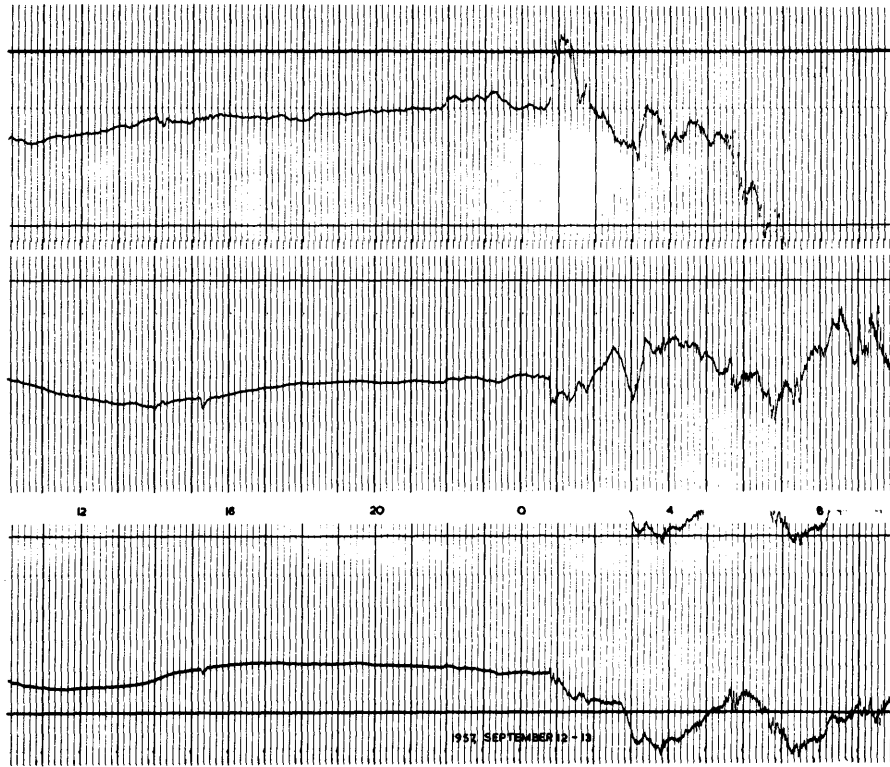
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SEPTEMBER 10-11

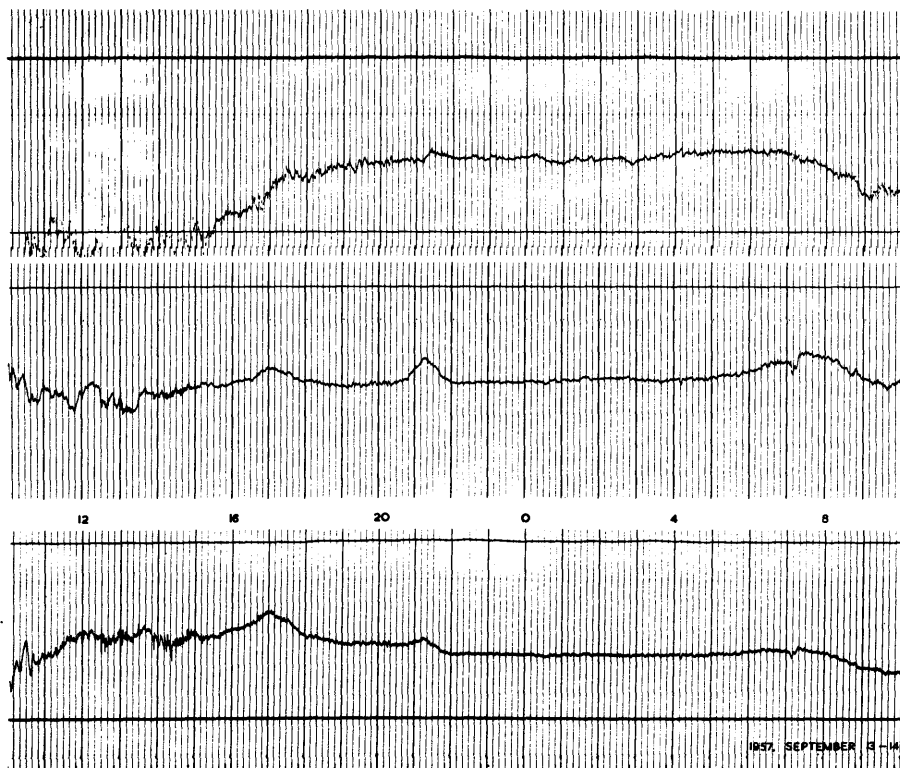


SEPTEMBER 11-12



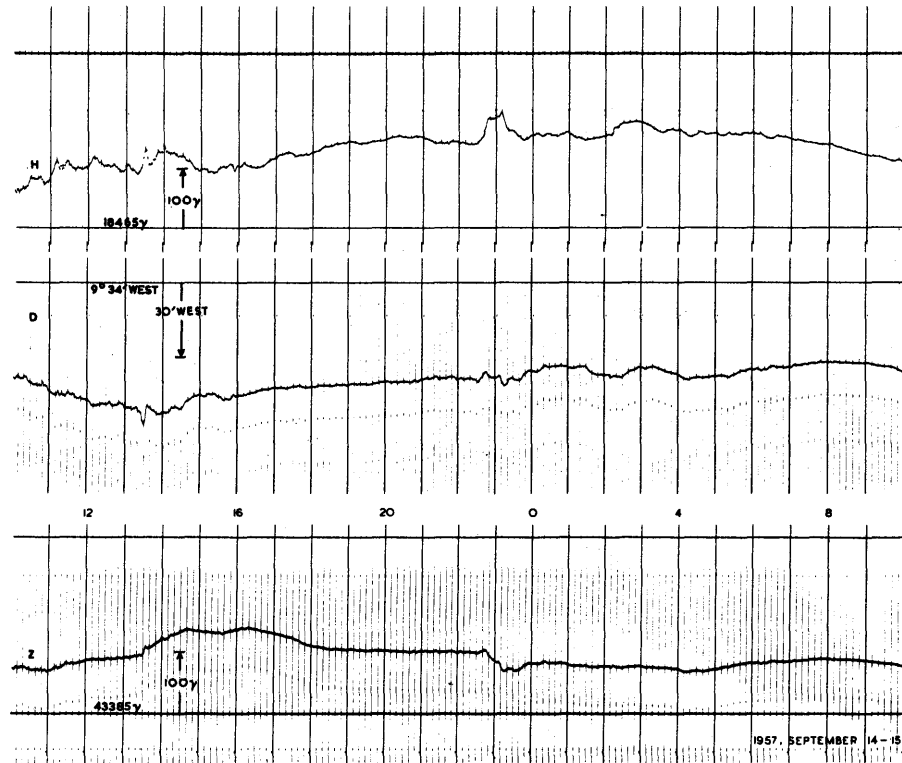
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SEPTEMBER 12-13

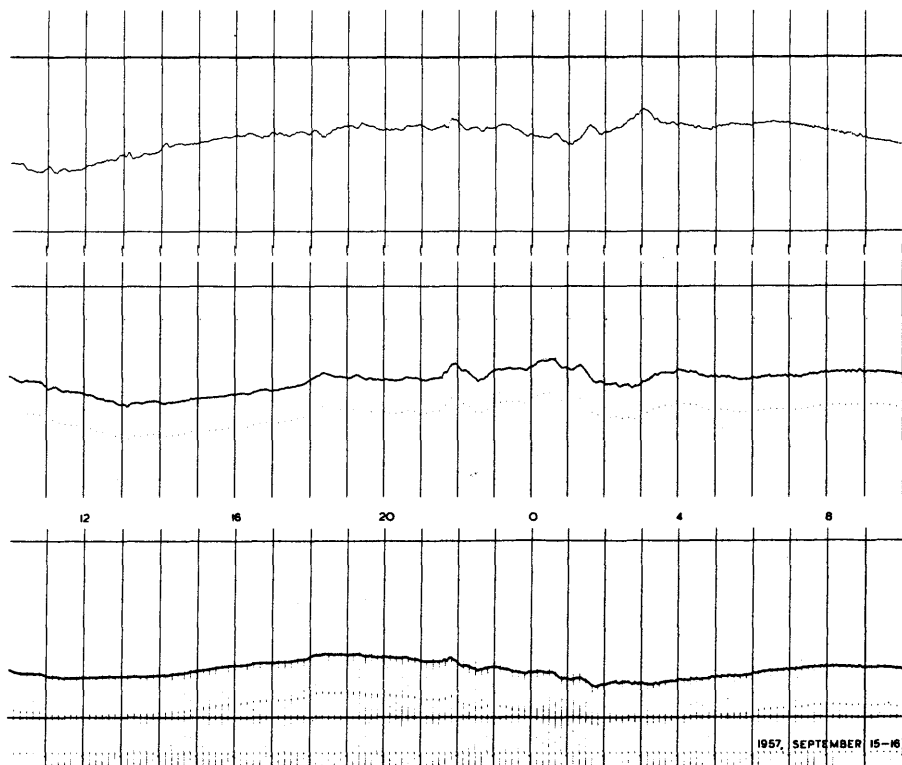


SEPTEMBER 13-14

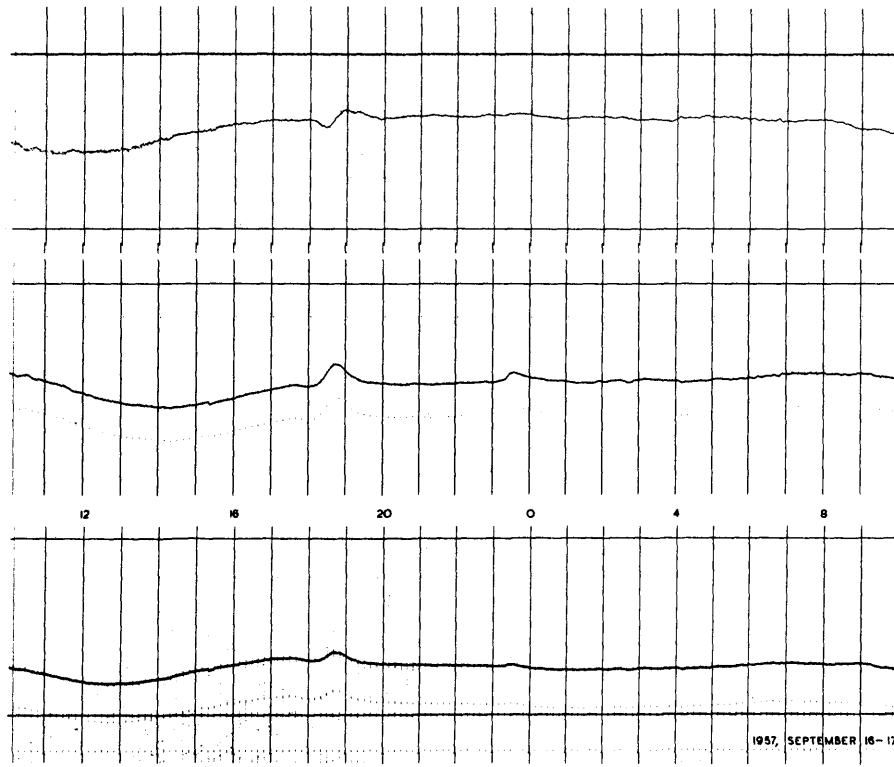
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SEPTEMBER 14-15

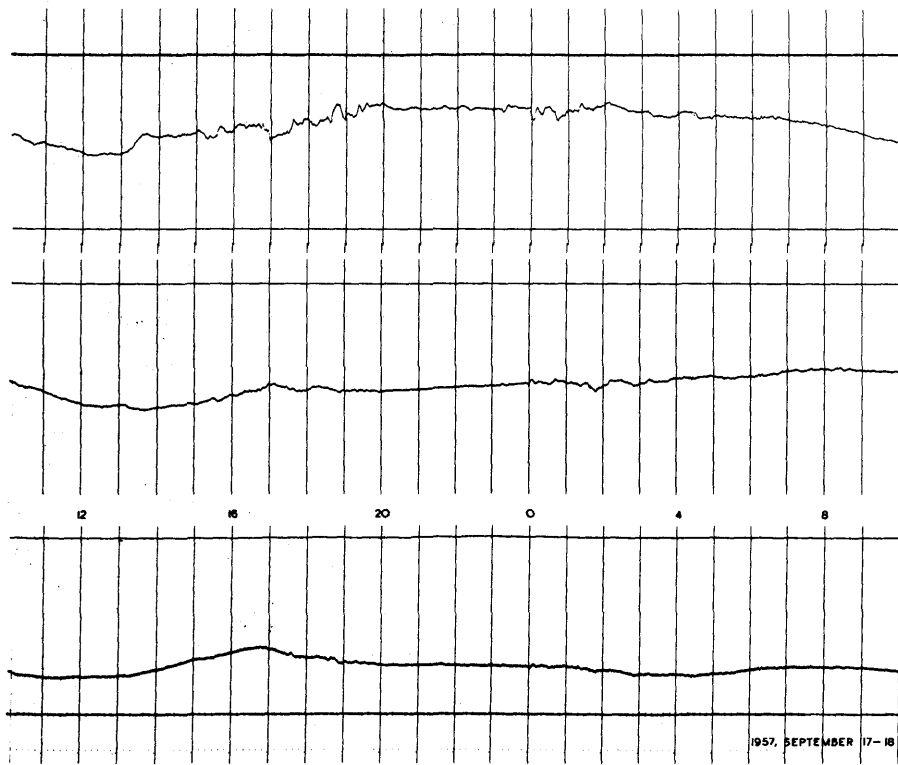


SEPTEMBER 15-16



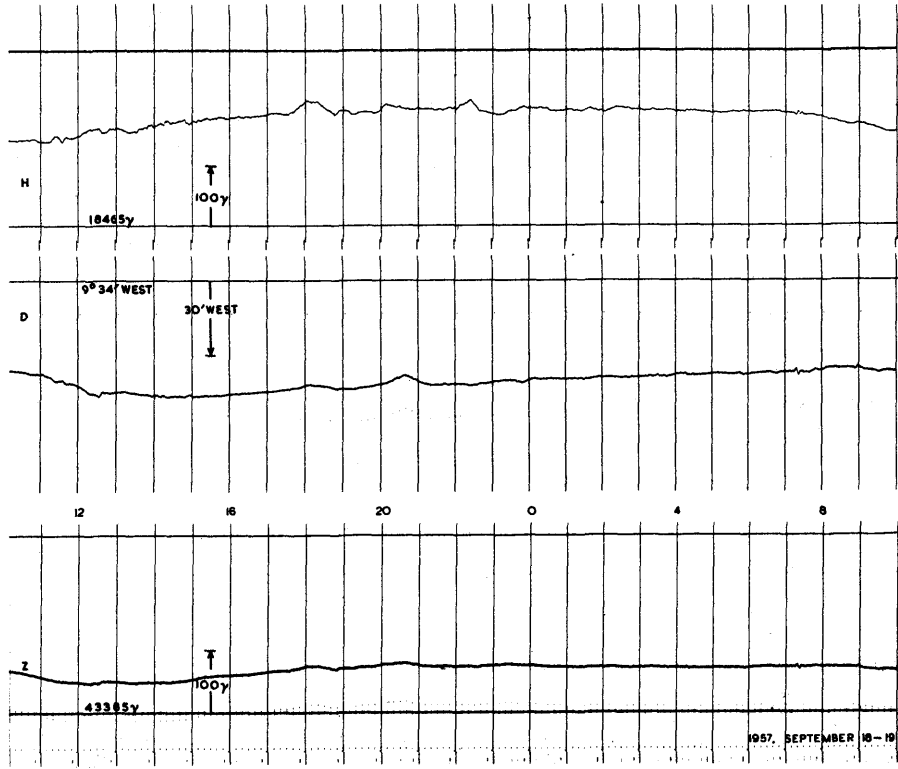
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SEPTEMBER 16-17

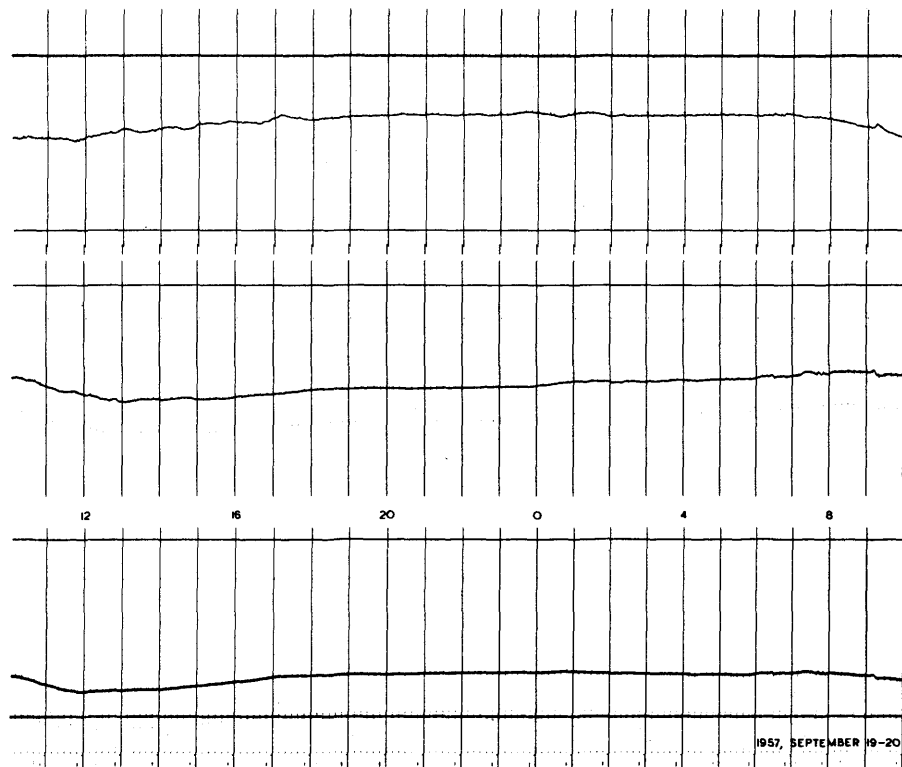


SEPTEMBER 17-18

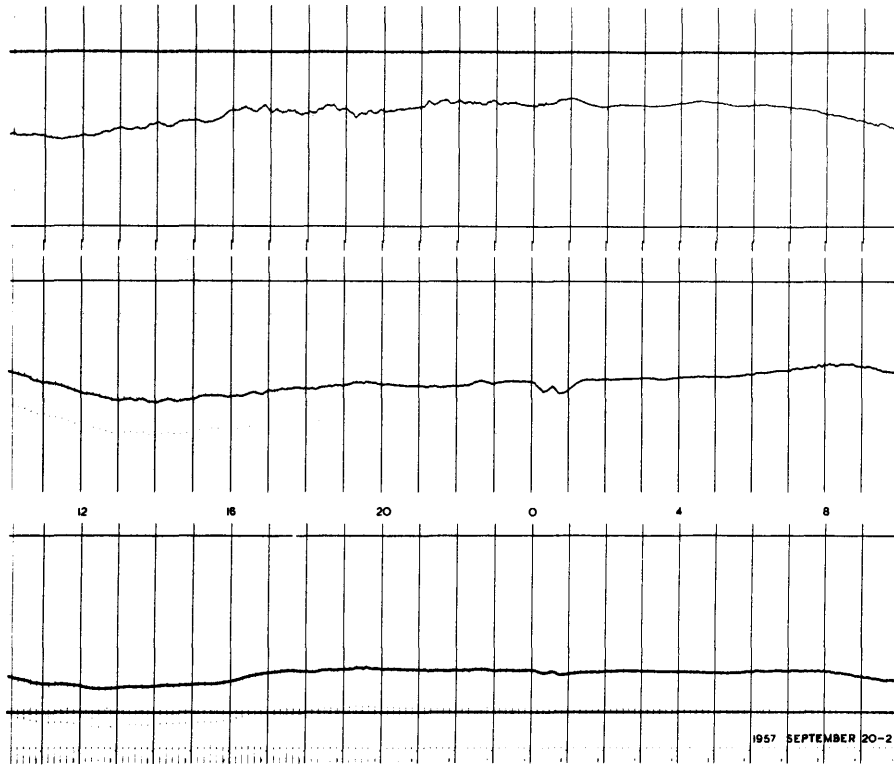
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SEPTEMBER 18-19

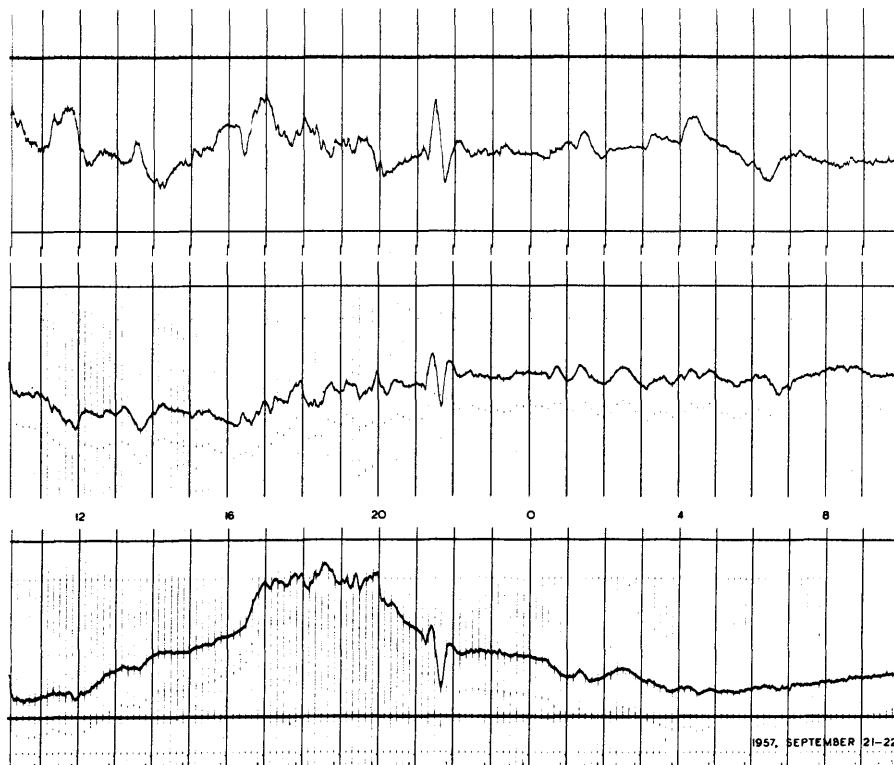


SEPTEMBER 19-20



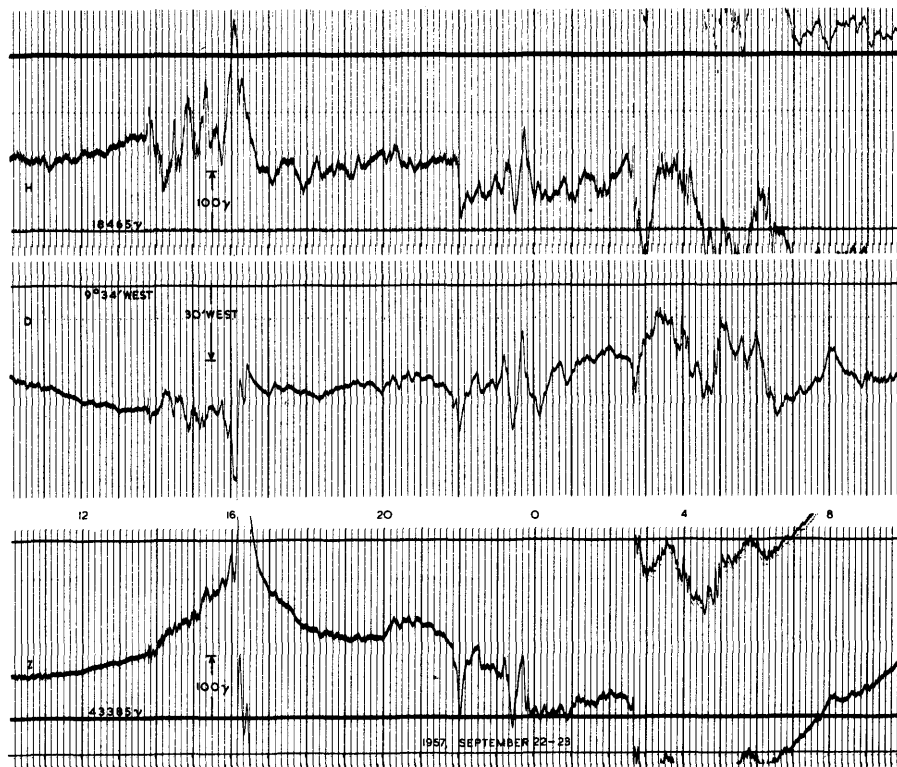
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SEPTEMBER 20-21

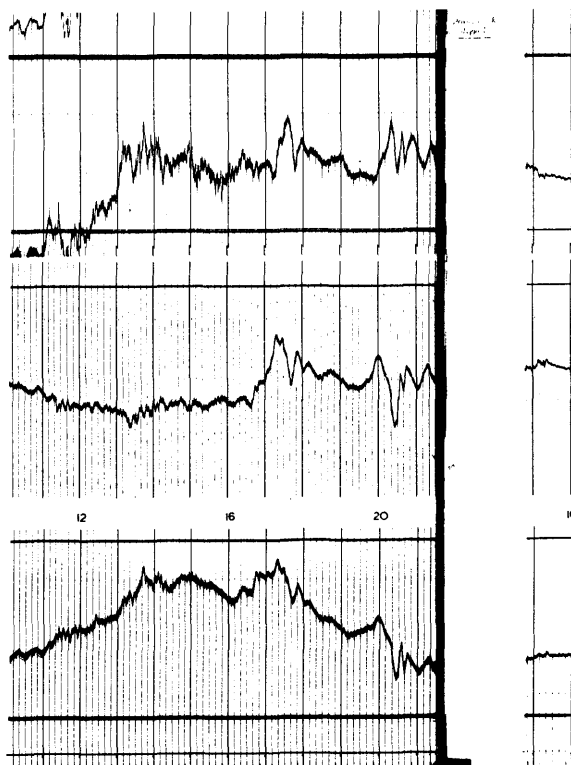


SEPTEMBER 21-22

1957



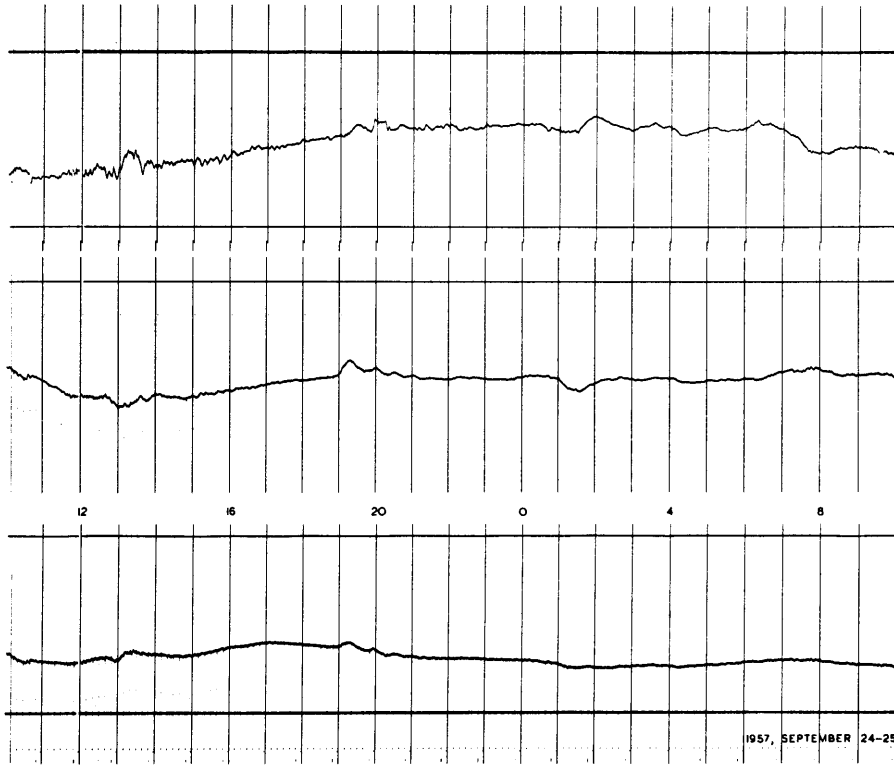
SEPTEMBER 22-23



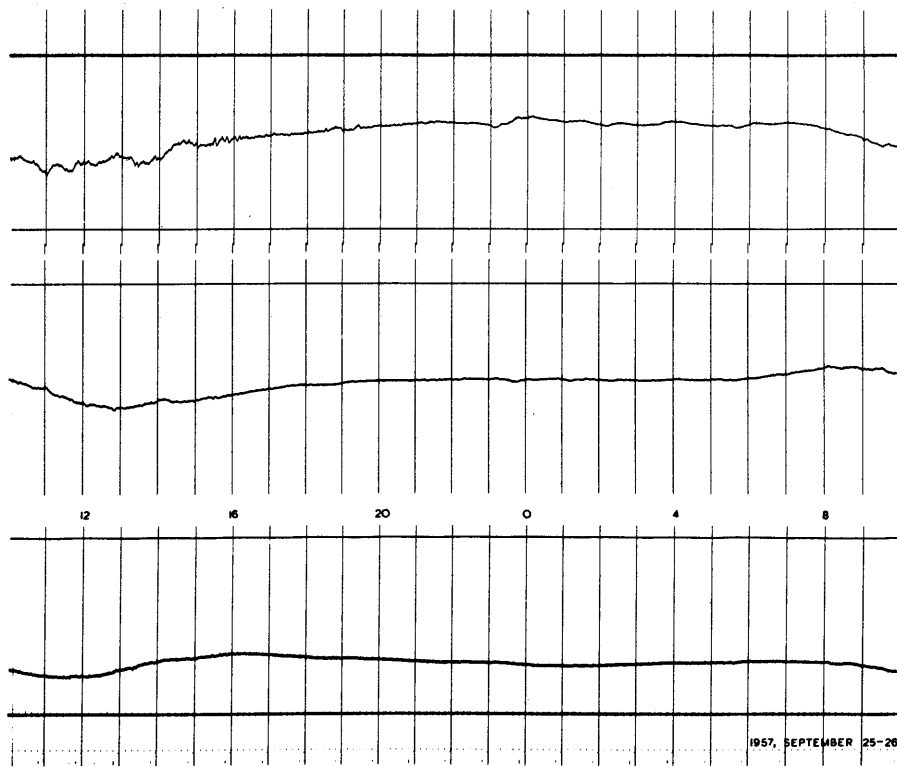
SEPTEMBER 23-24

1957, SEPTEMBER 23-24

1957

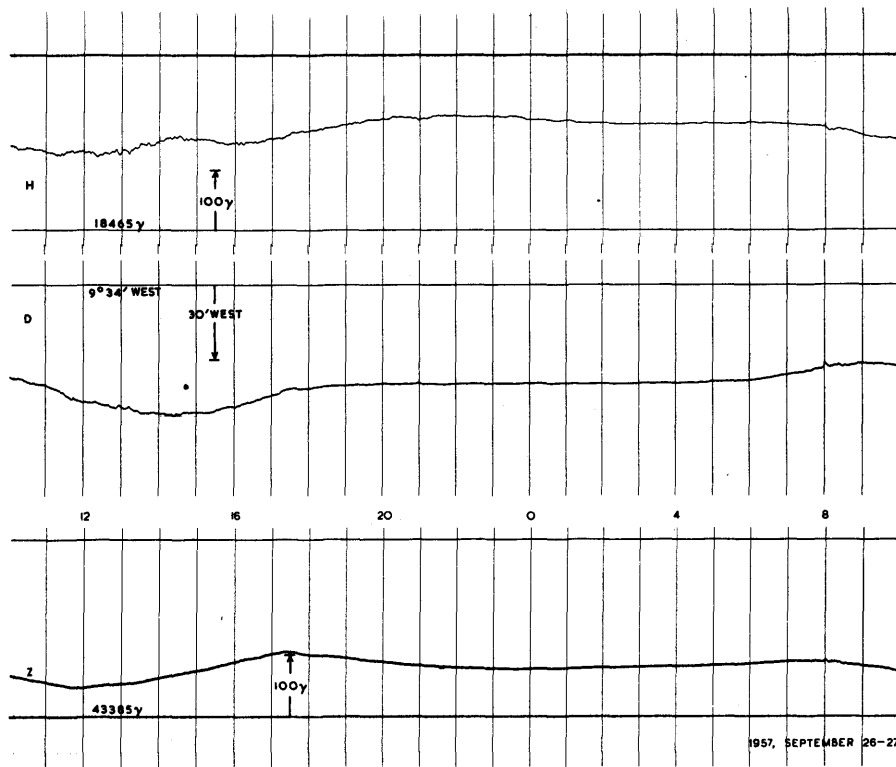


SEPTEMBER 24-25

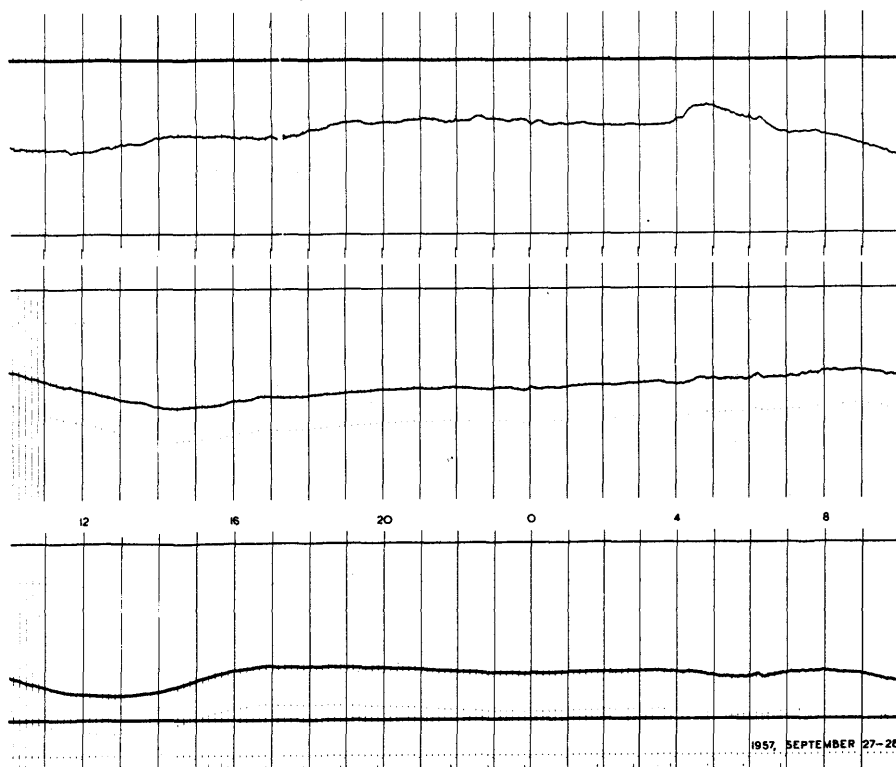


SEPTEMBER 25-26

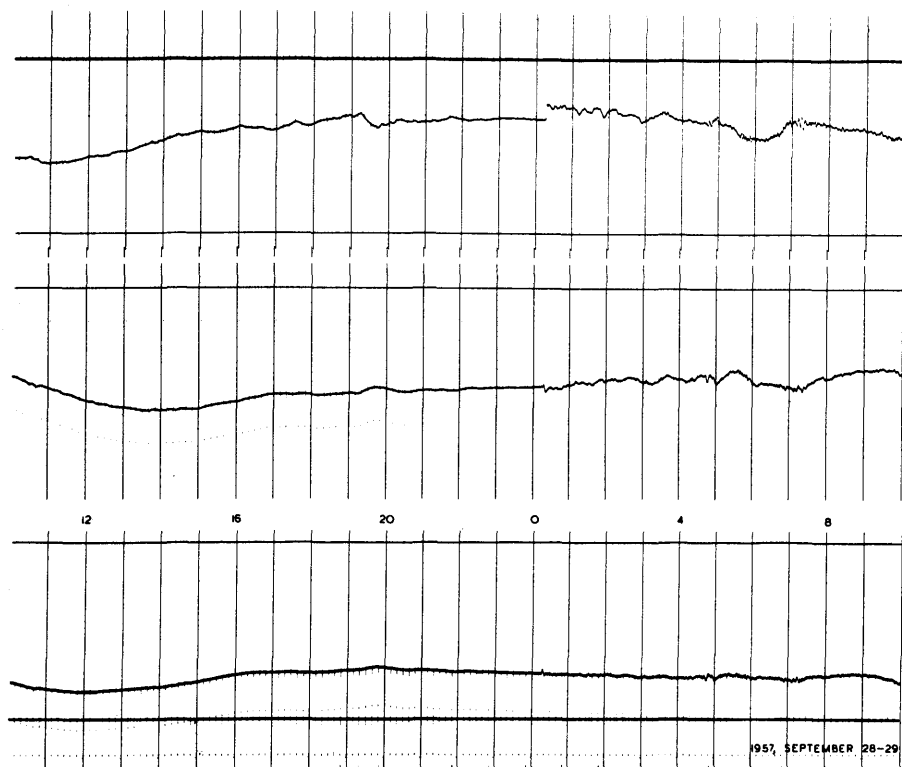
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SEPTEMBER 26-27

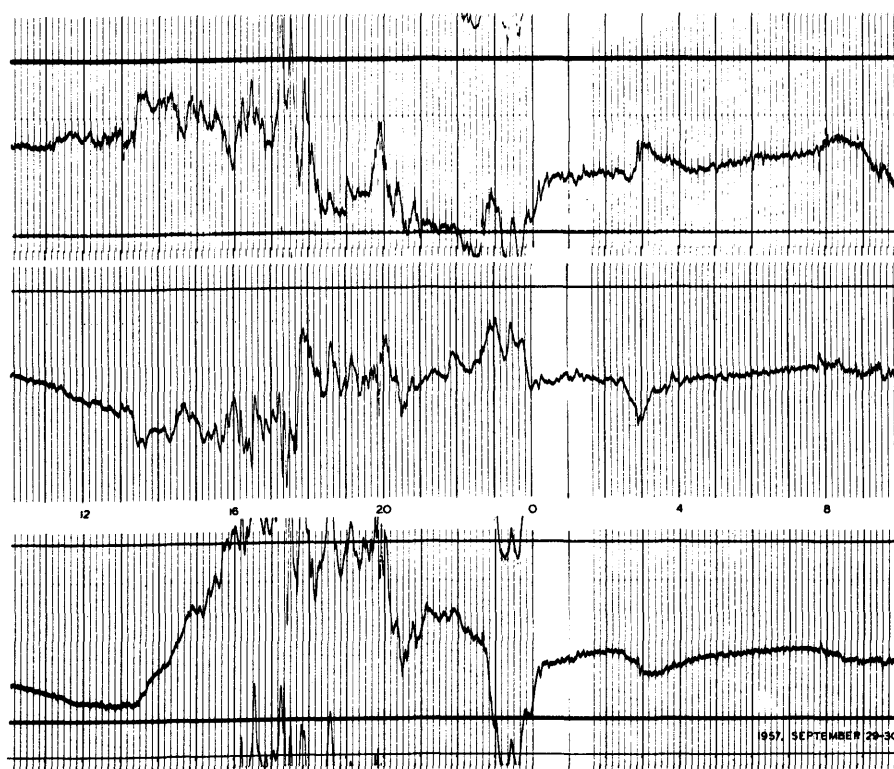


SEPTEMBER 27-28



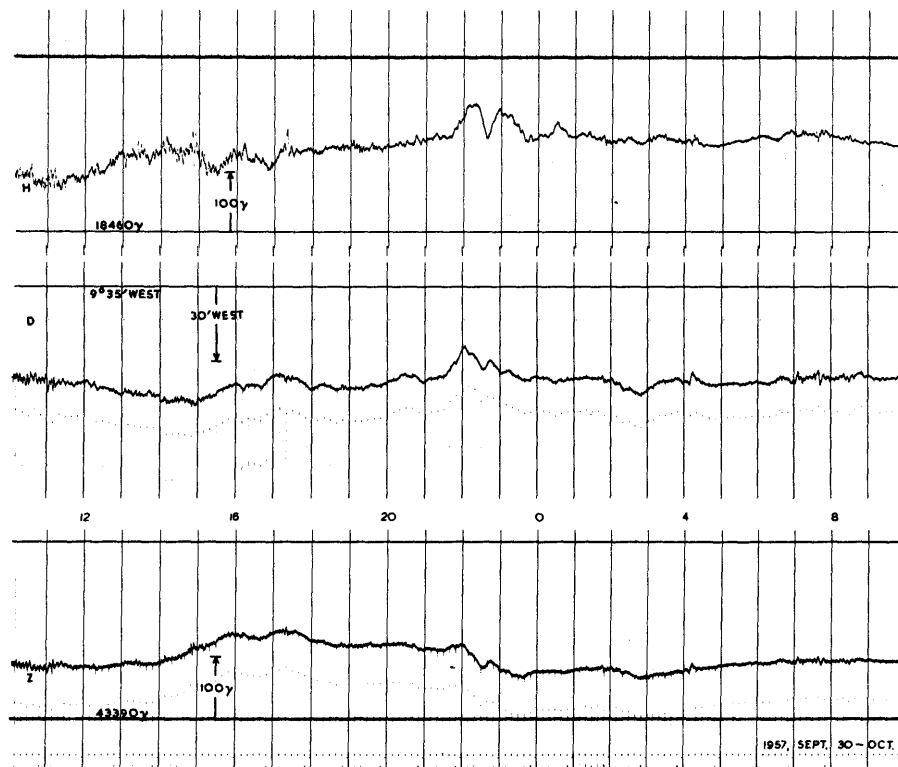
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SEPTEMBER 28-29

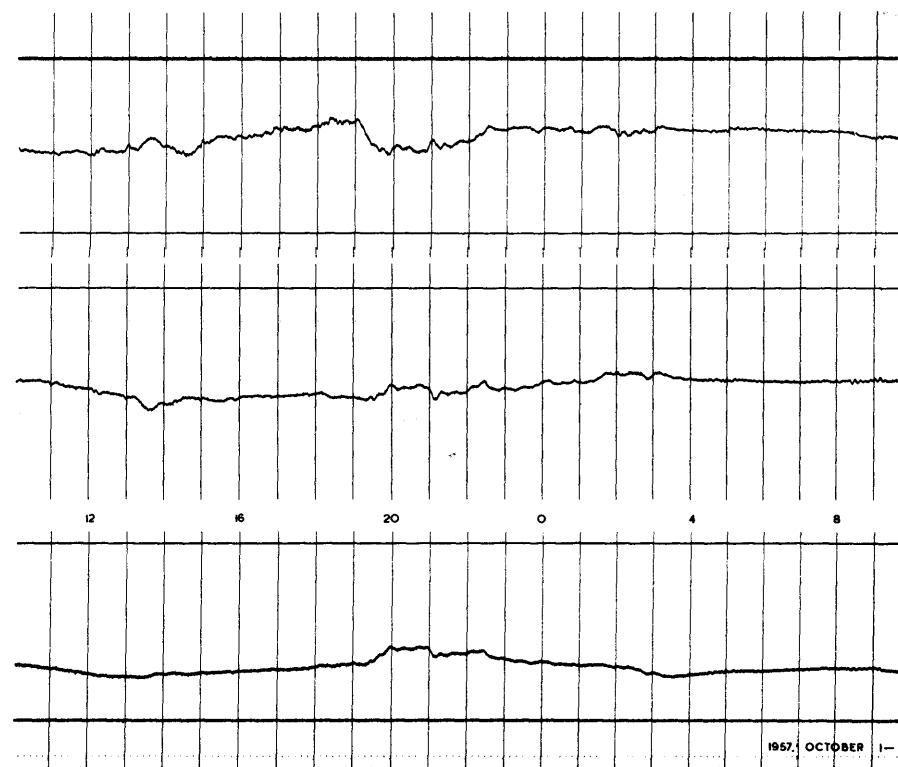


SEPTEMBER 29-30

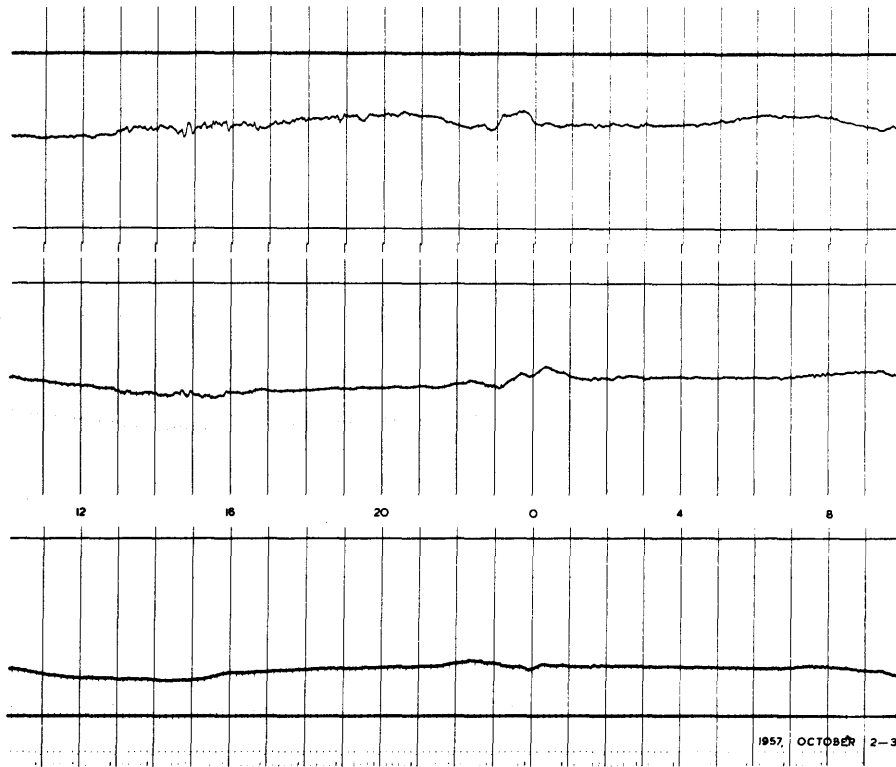
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SEPT. 30-OCT. 1

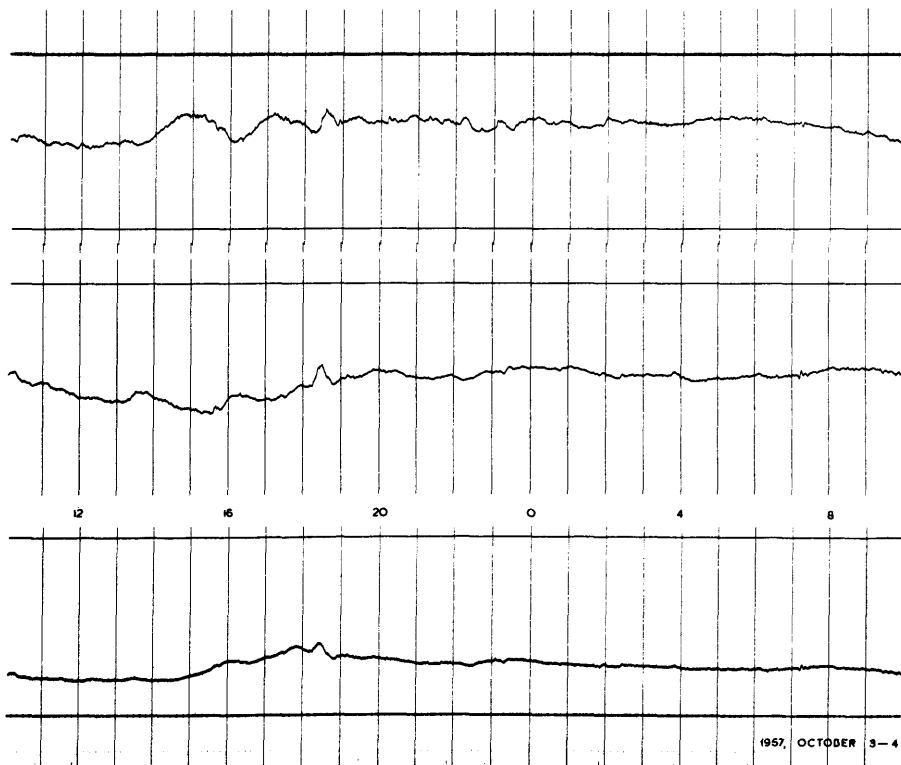


OCTOBER 1-2



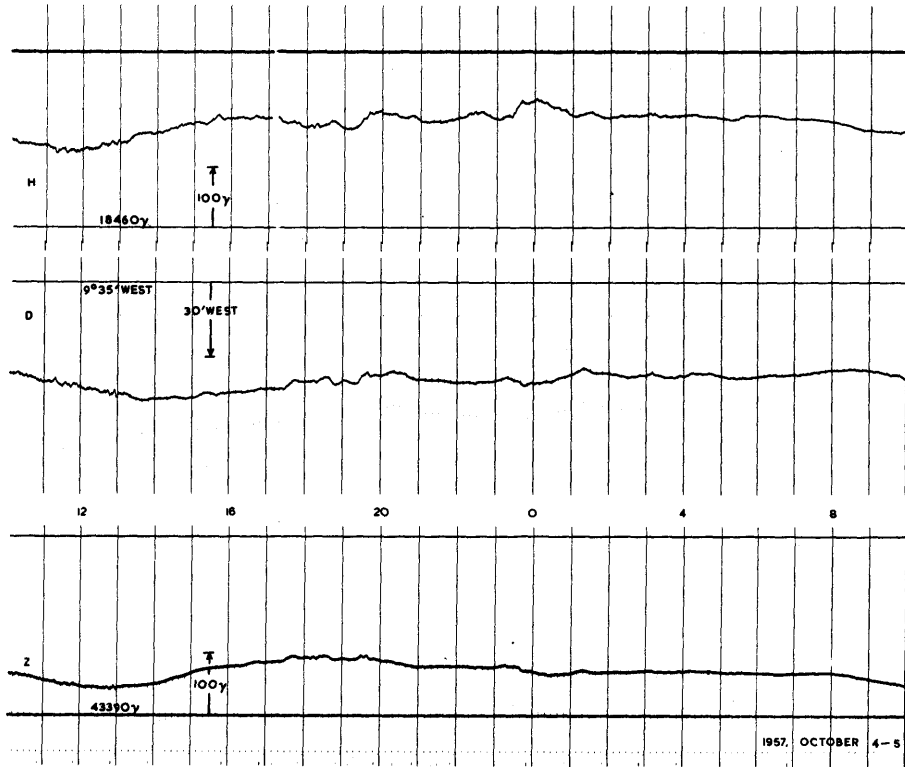
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OCTOBER 2-3

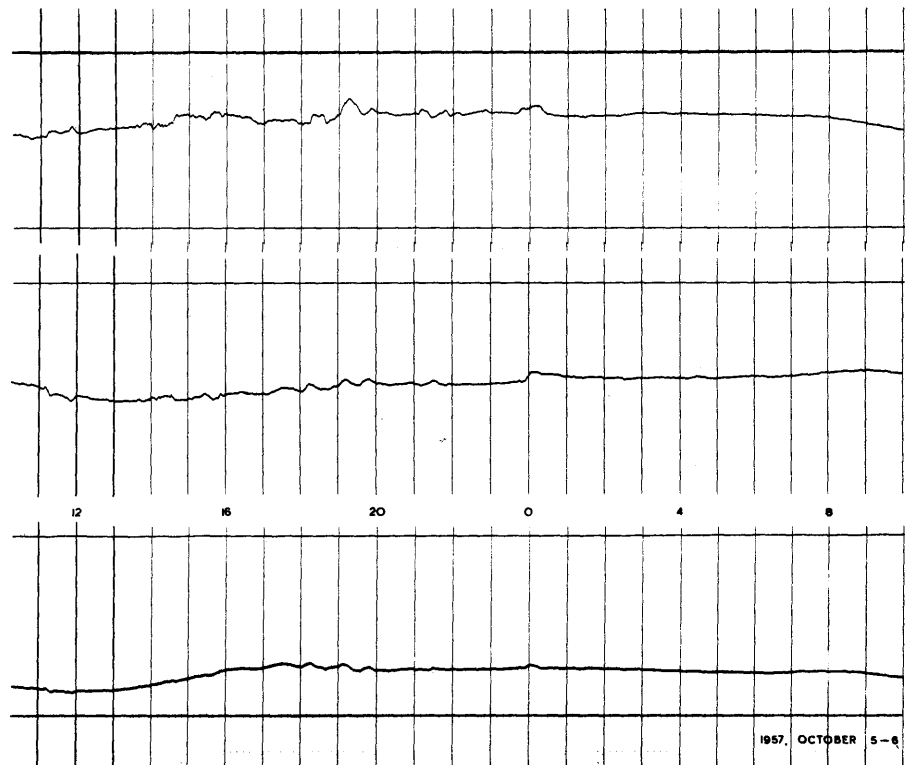


OCTOBER 3-4

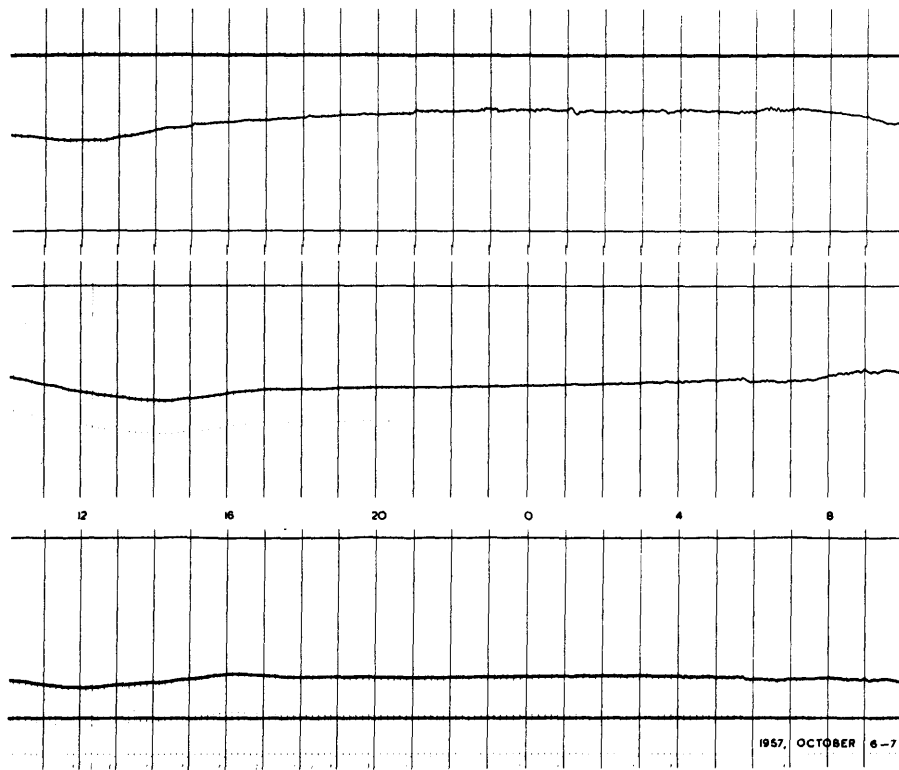
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OCTOBER 4-5

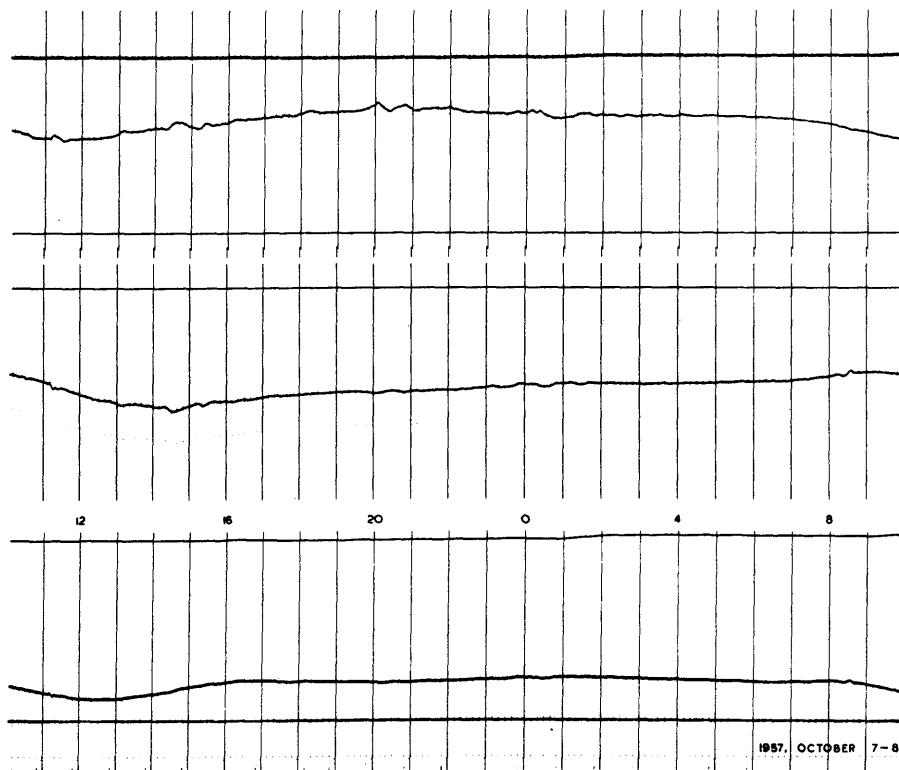


OCTOBER 5-6



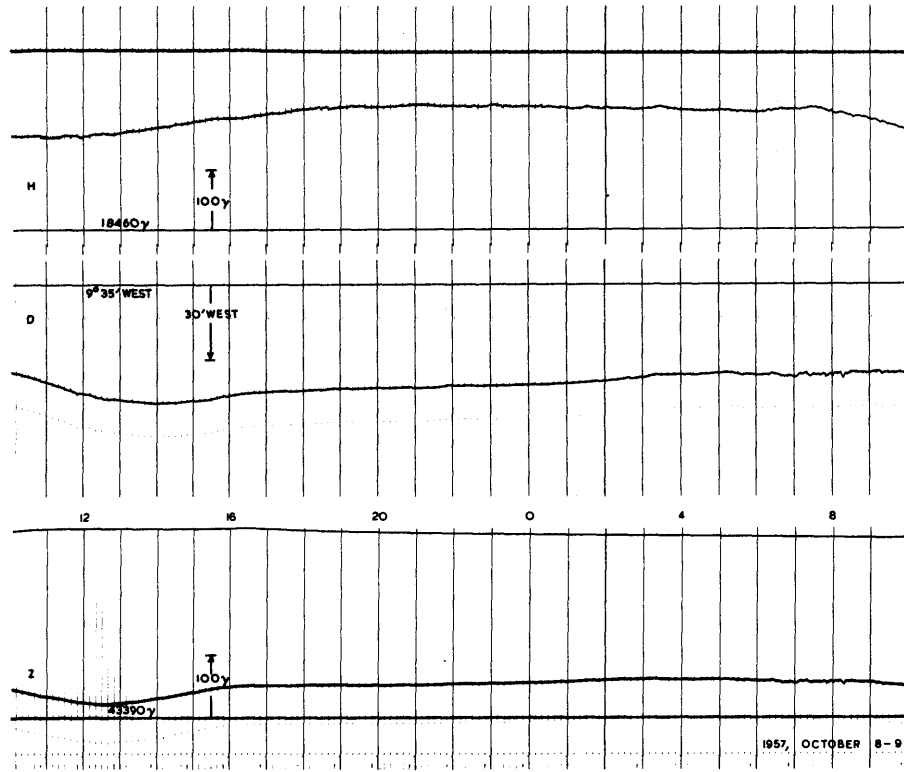
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OCTOBER 6-7

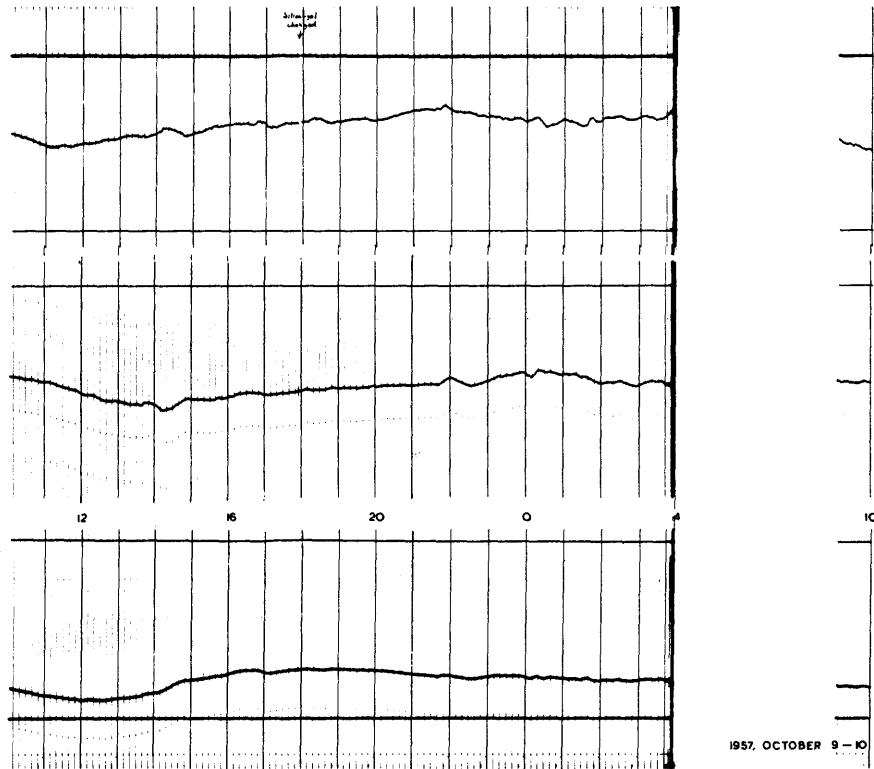


OCTOBER 7-8

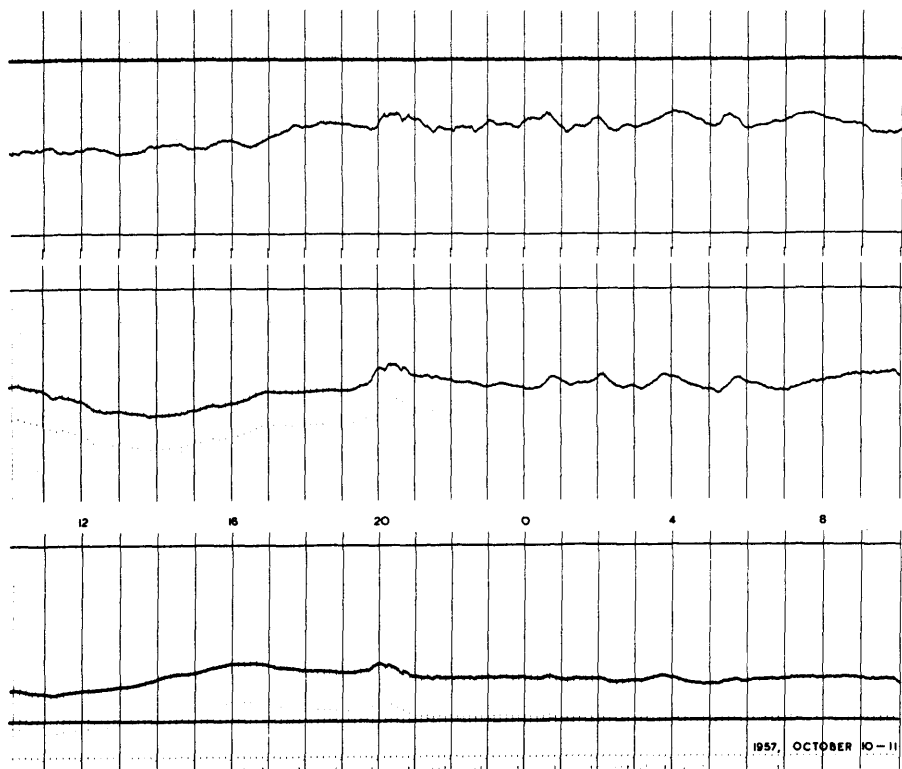
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OCTOBER 8-9

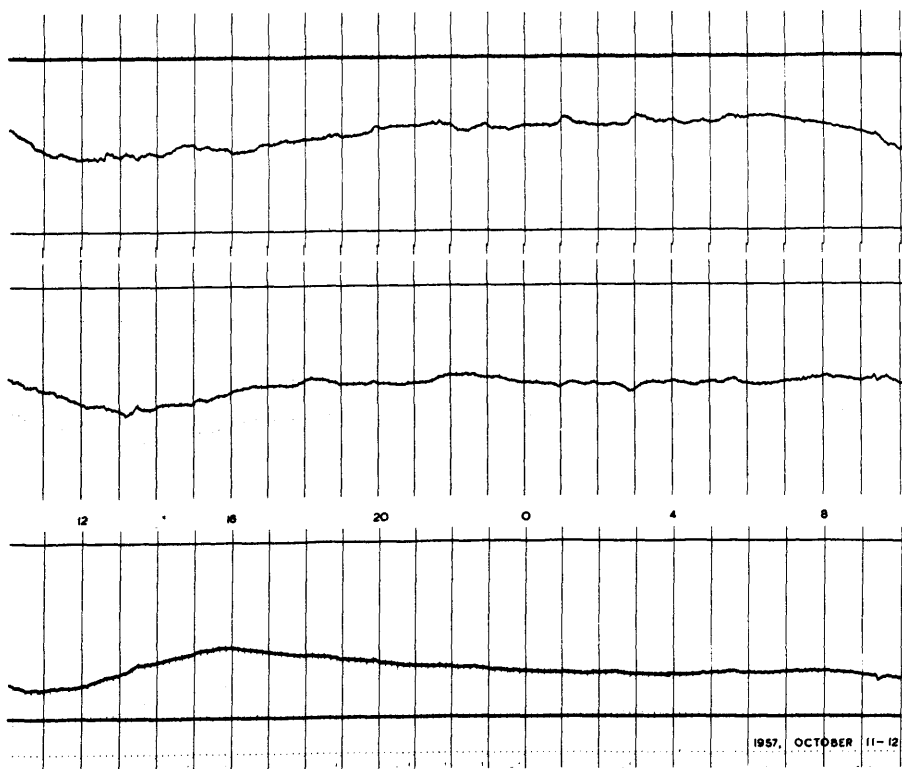


OCTOBER 9-10



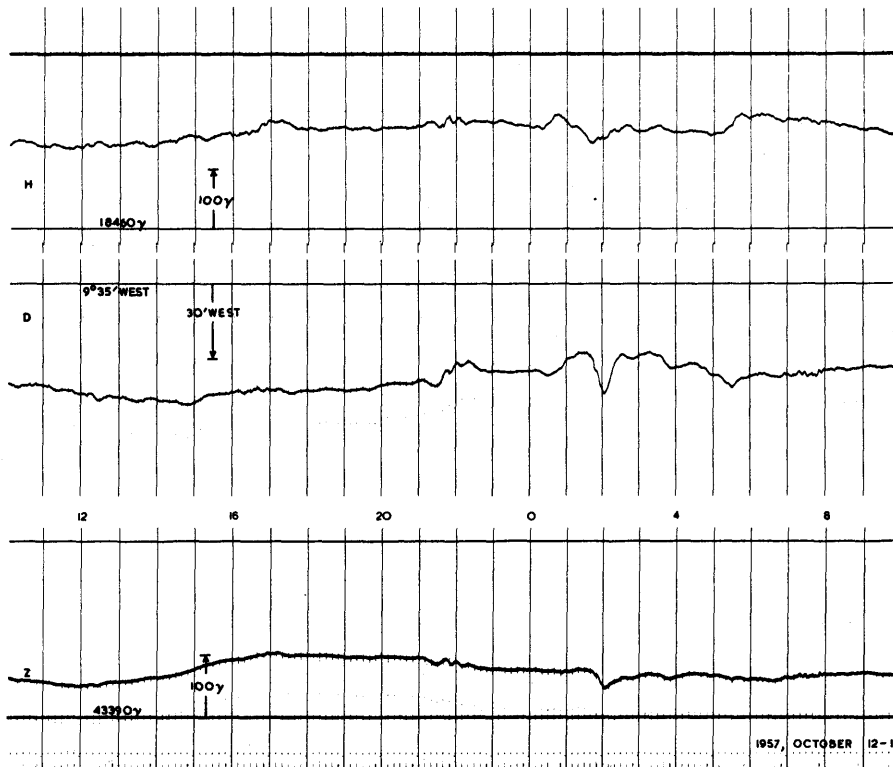
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OCTOBER 10-11

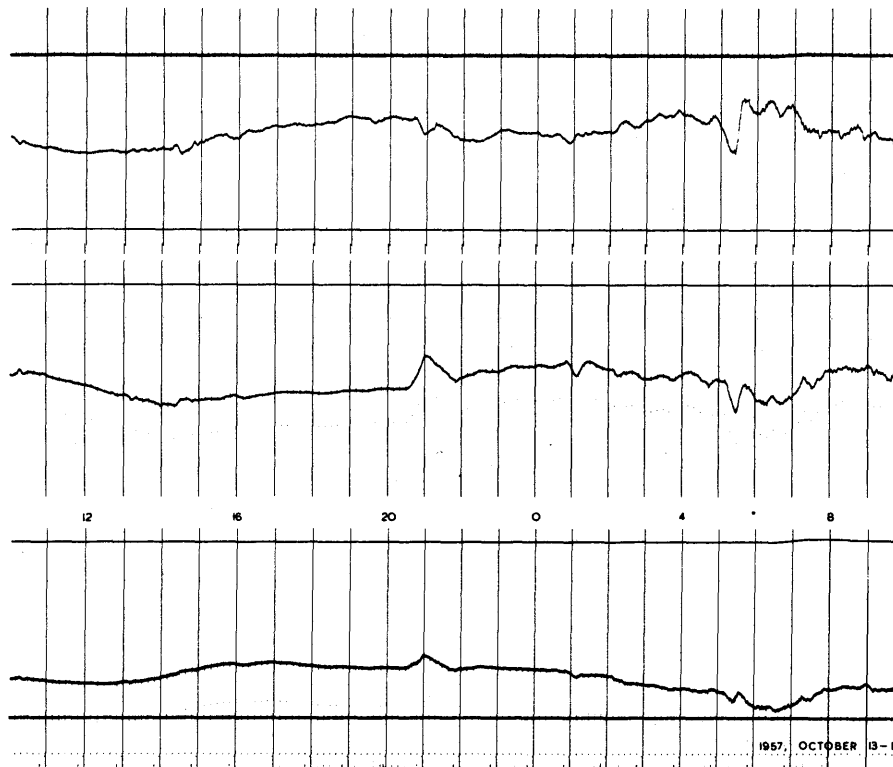


OCTOBER 11-12

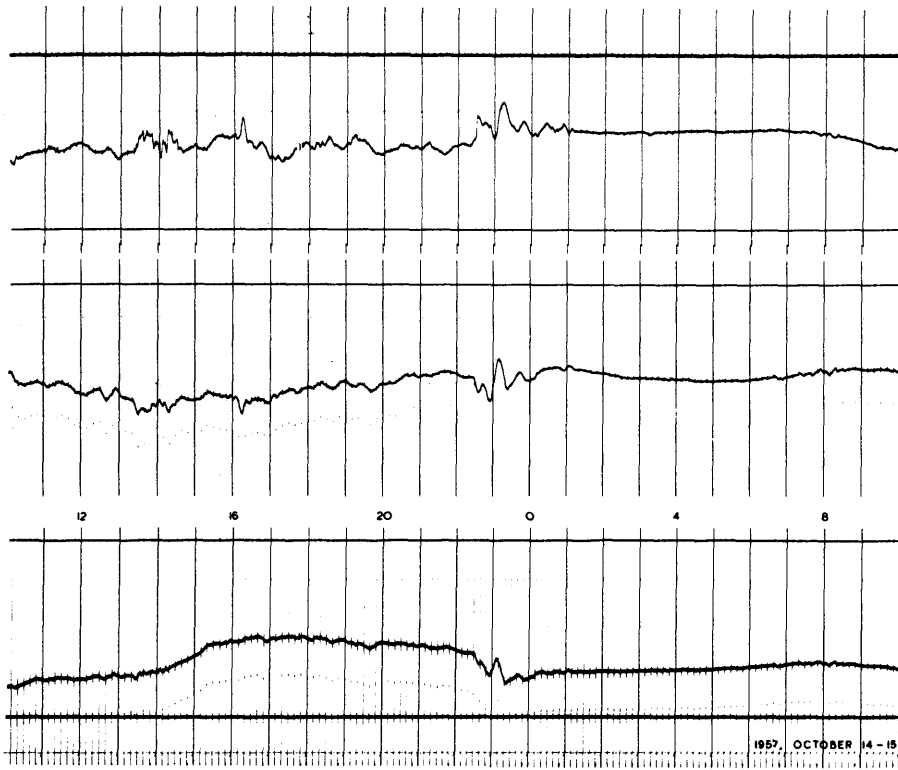
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OCTOBER 12-13

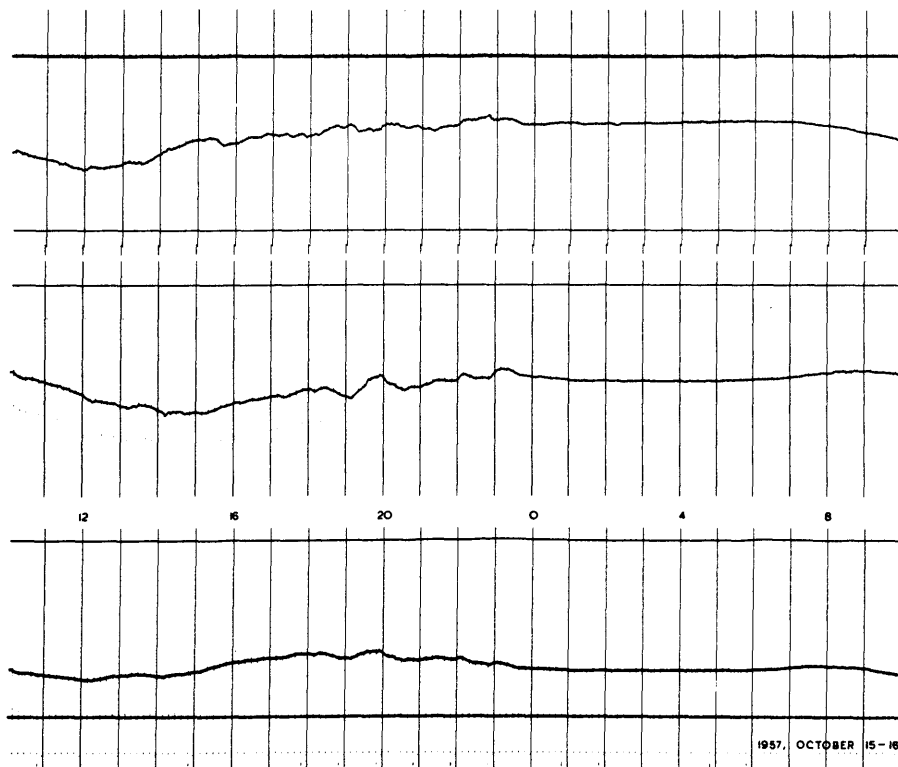


OCTOBER 13-14



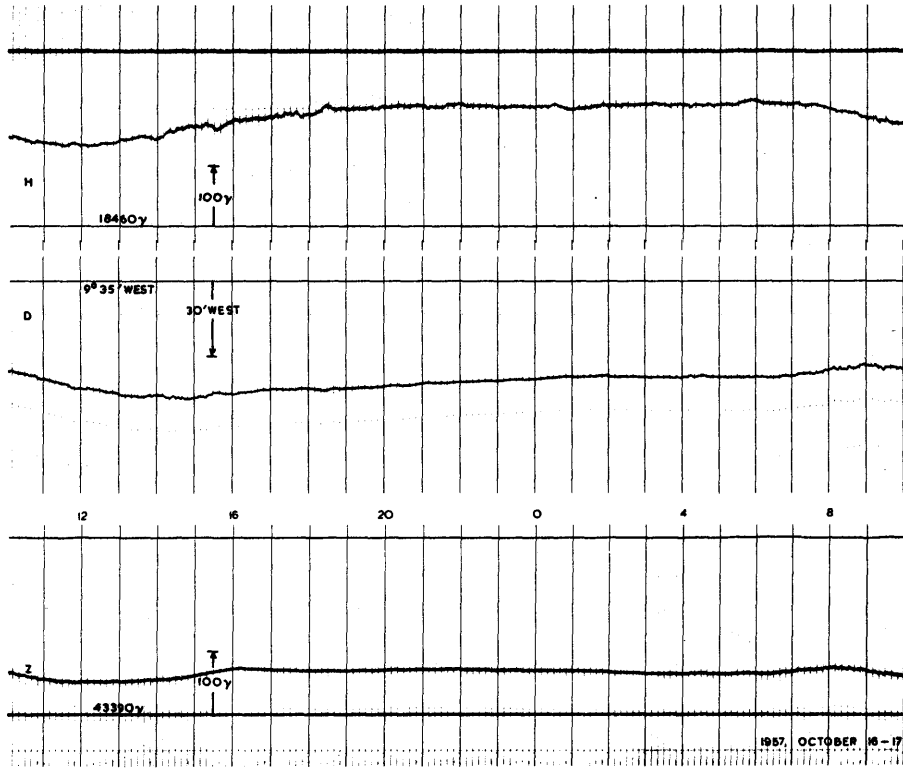
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OCTOBER 14-15

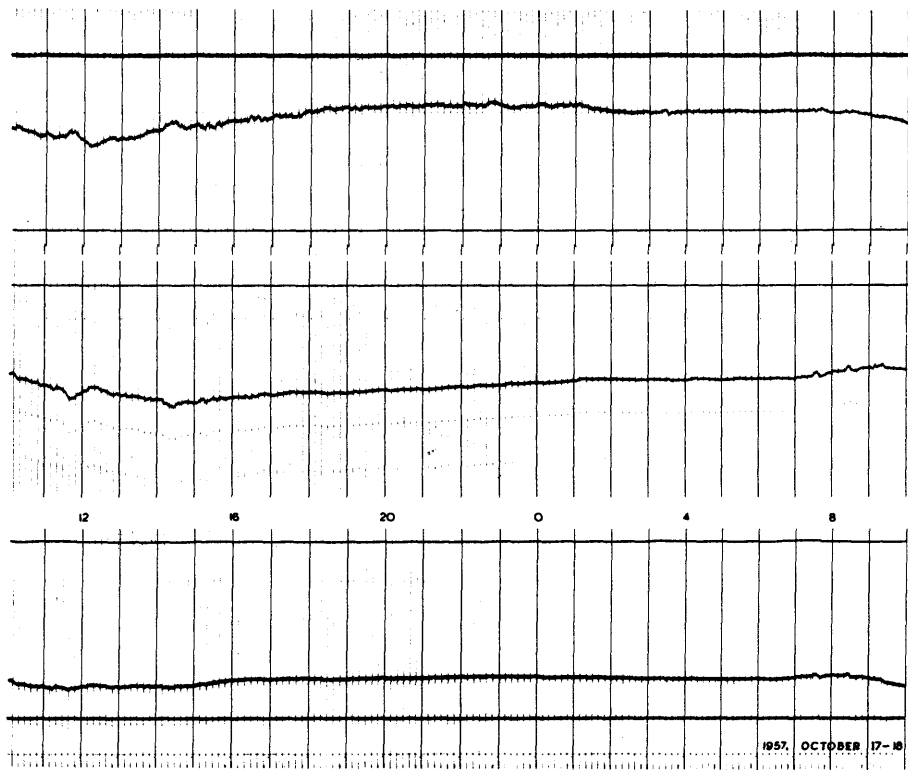


OCTOBER 15-16

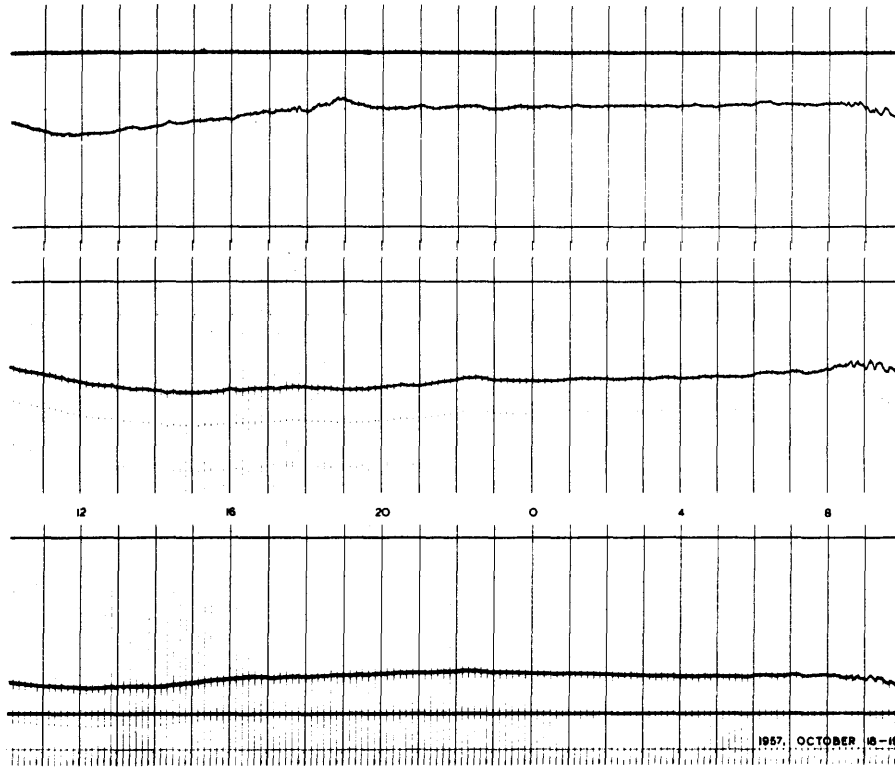
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OCTOBER 16-17

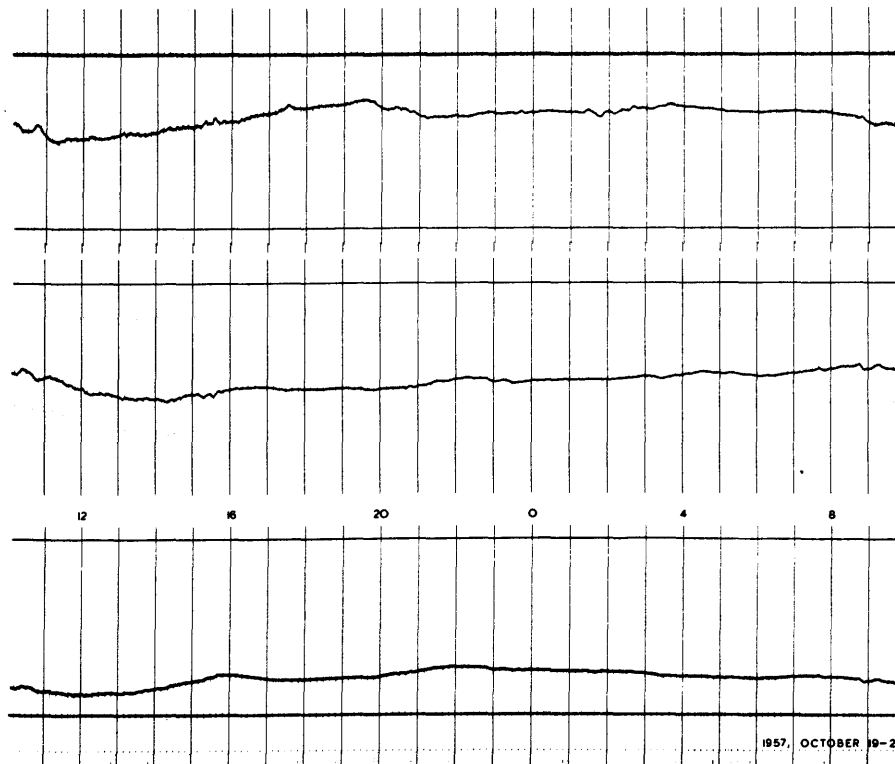


OCTOBER 17-18



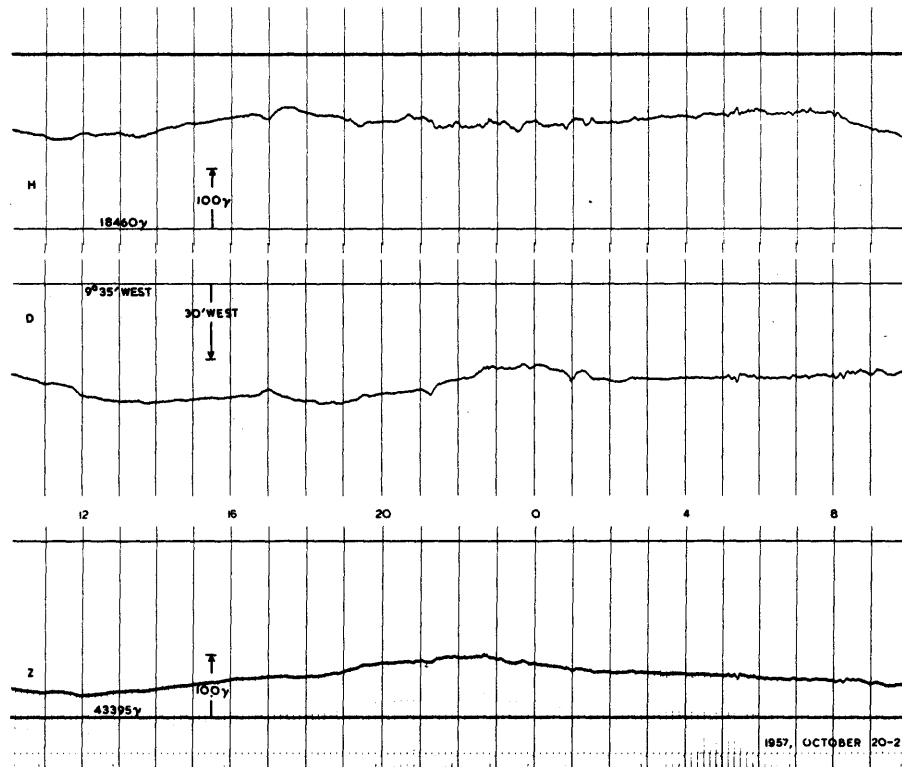
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OCTOBER 18-19

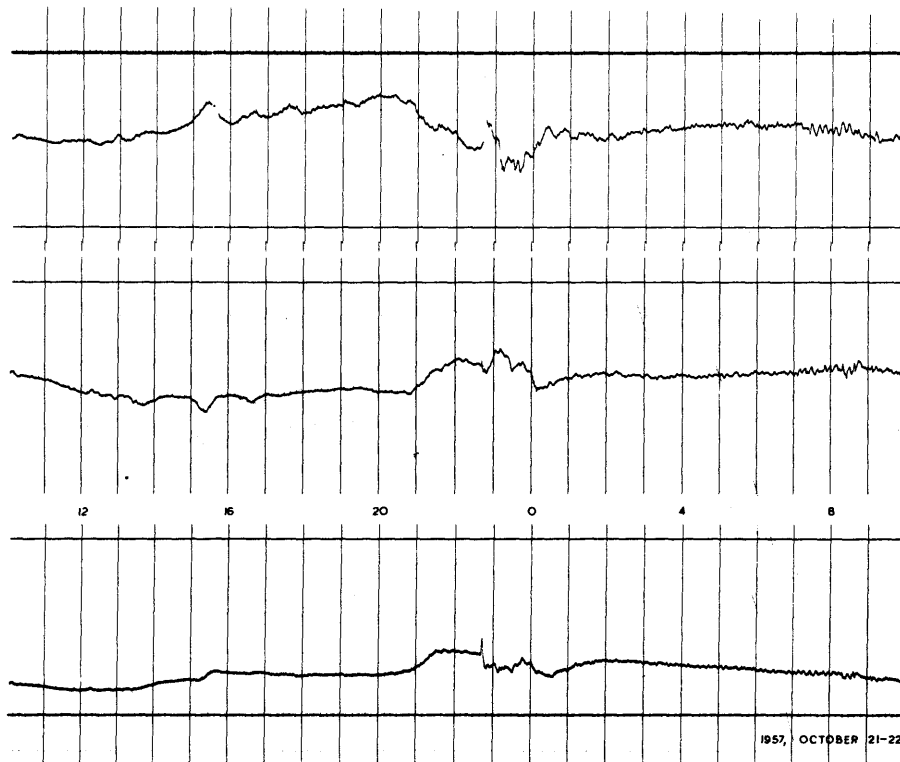


OCTOBER 19-20

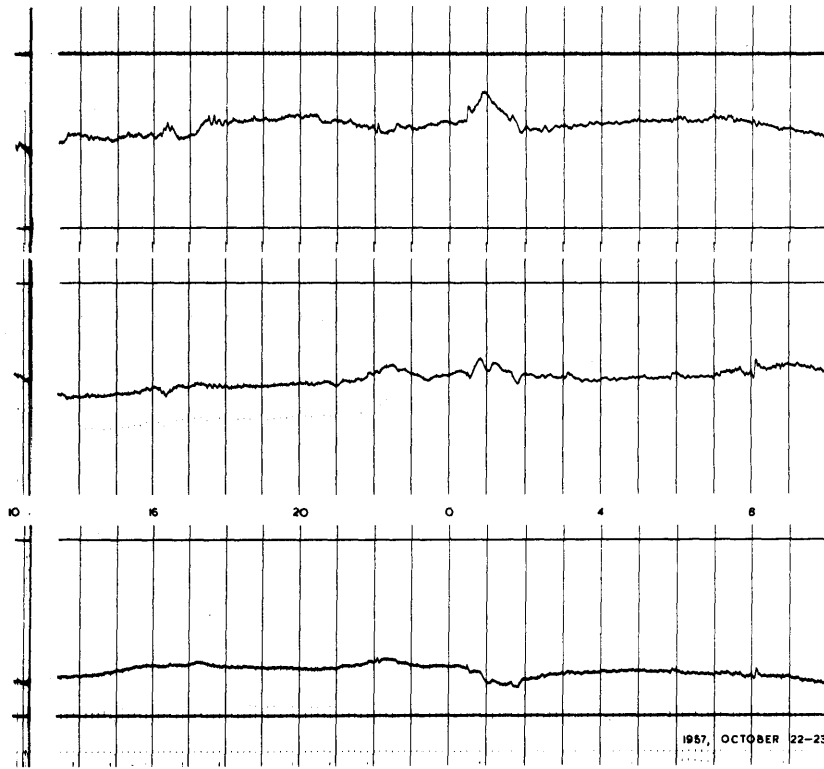
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OCTOBER 20-21

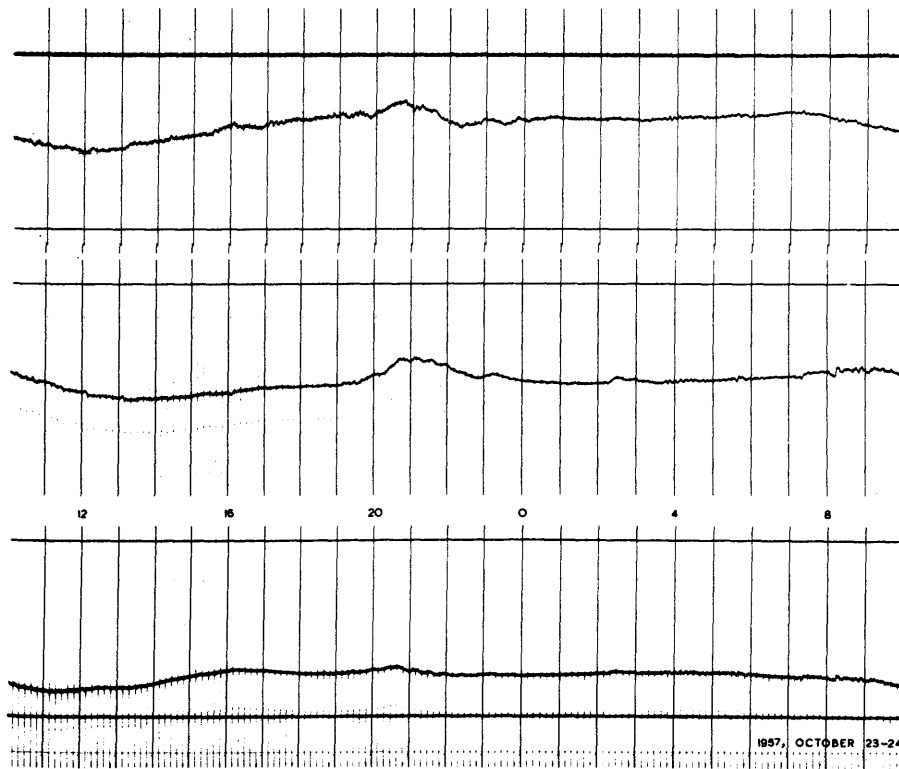


OCTOBER 21-22



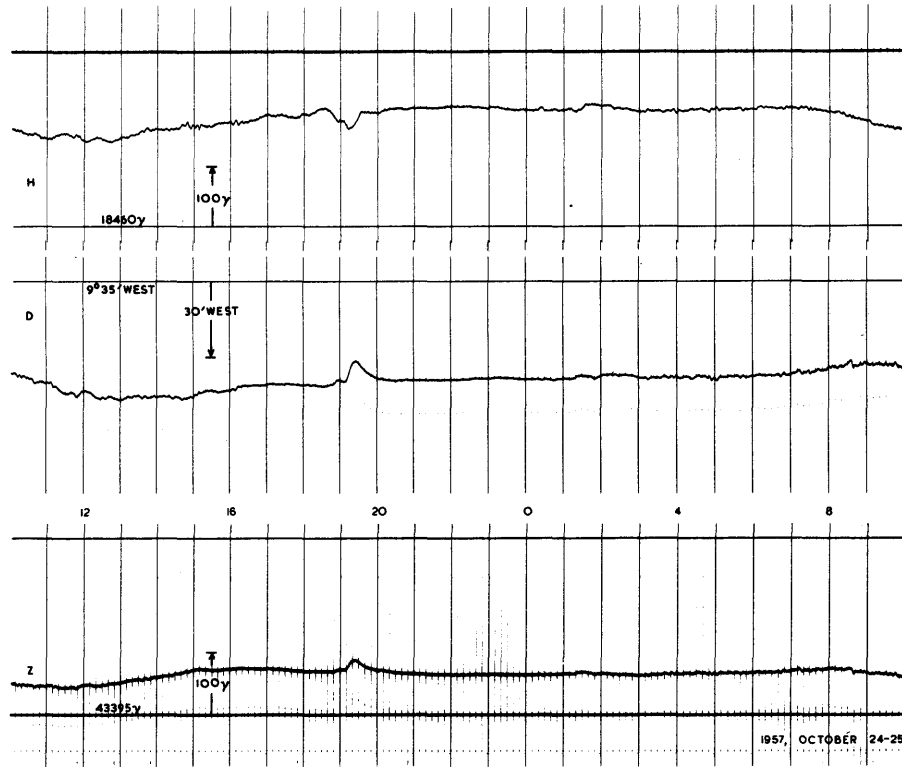
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OCTOBER 22-23

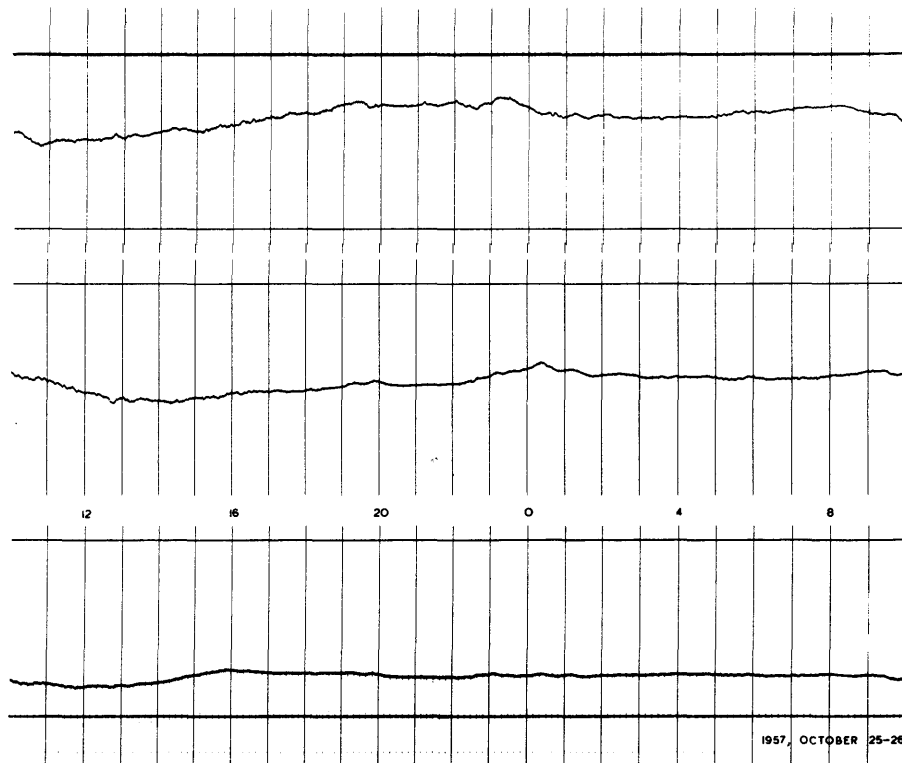


OCTOBER 23-24

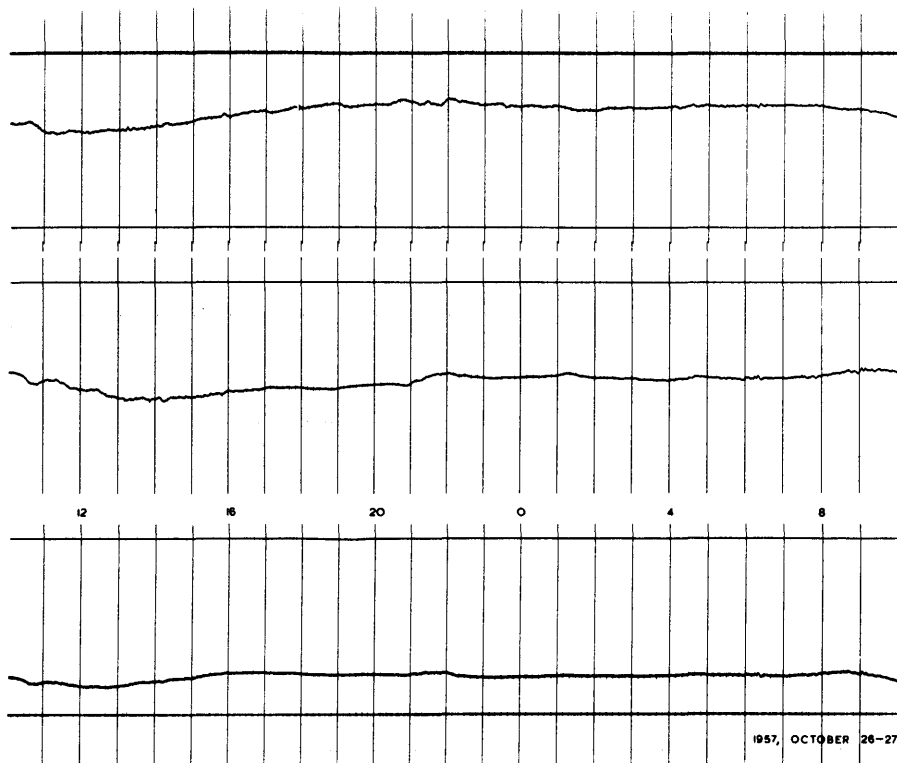
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OCTOBER 24-25

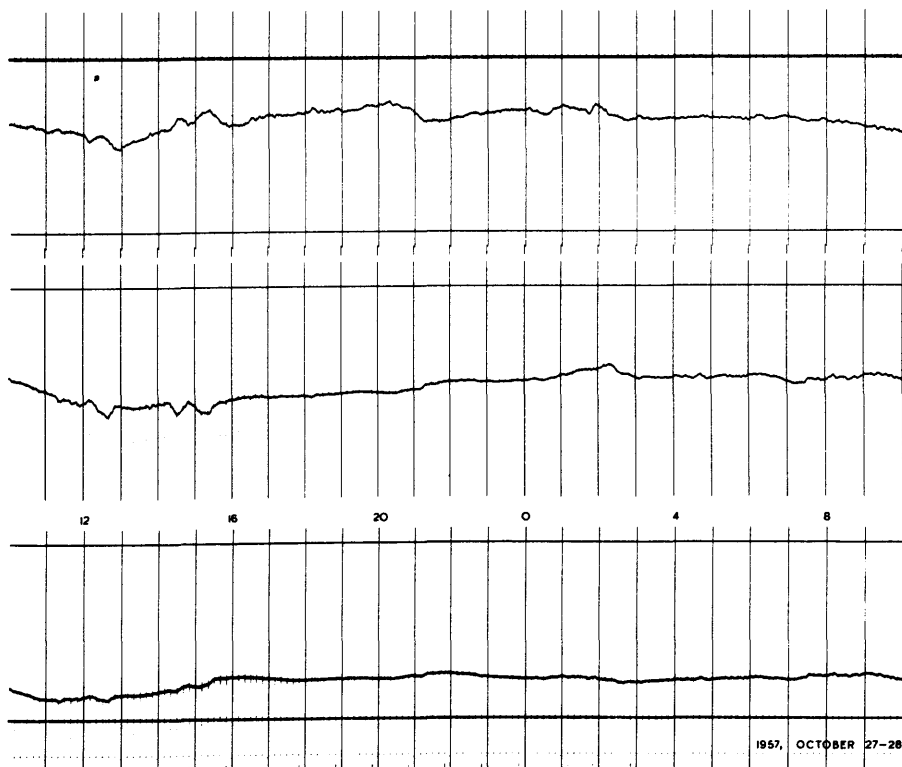


OCTOBER 25-26



1957

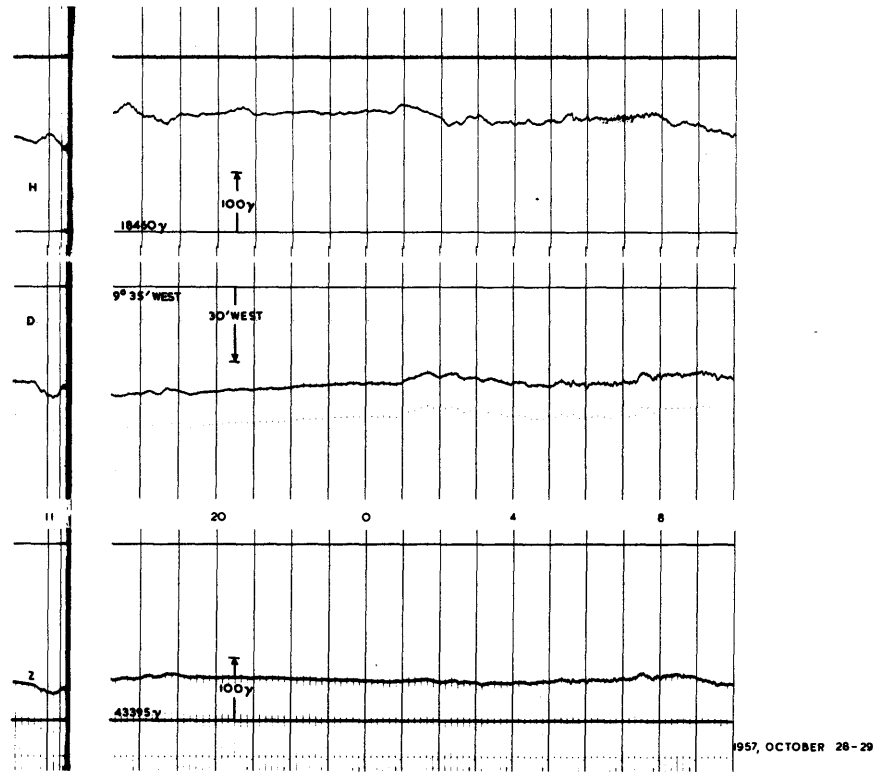
OCTOBER 26-27



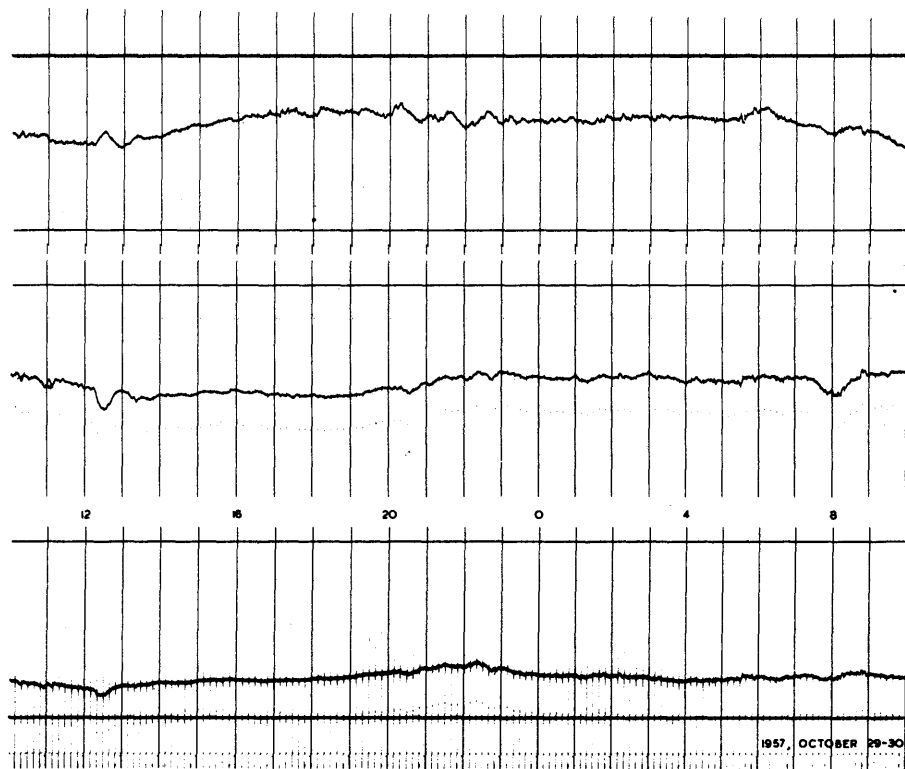
OCTOBER 27-28

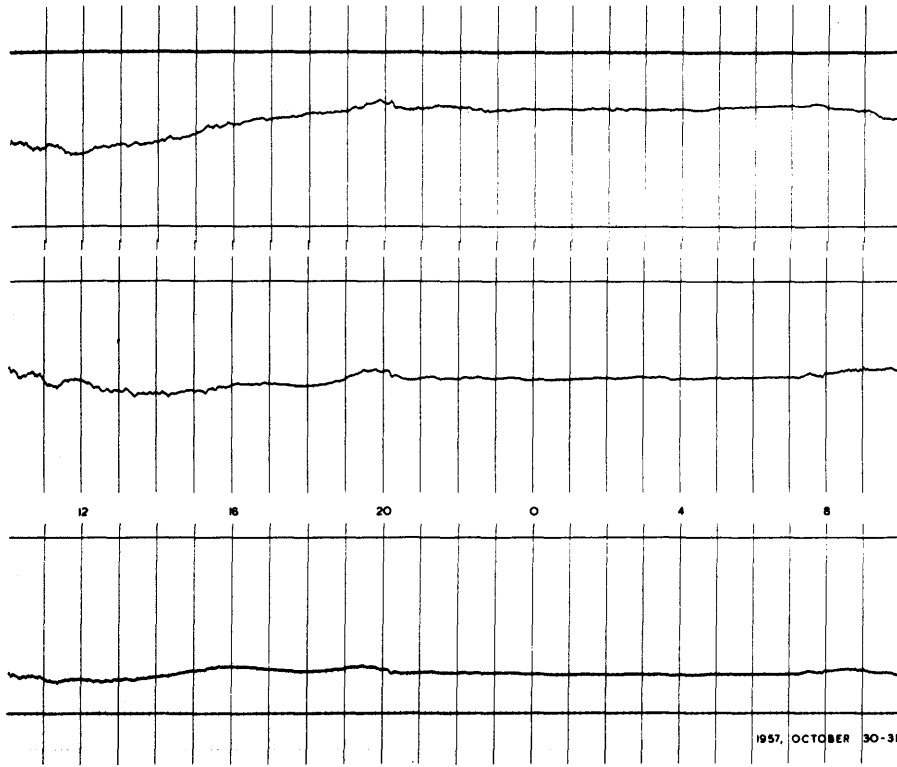
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OCTOBER 28-29



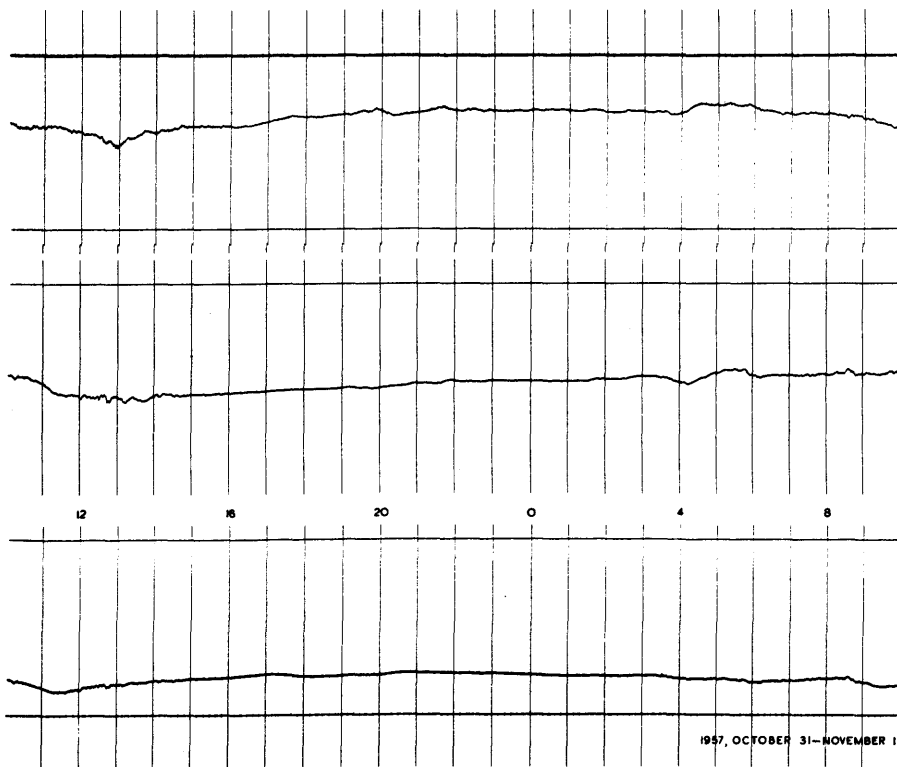
OCTOBER 29-30





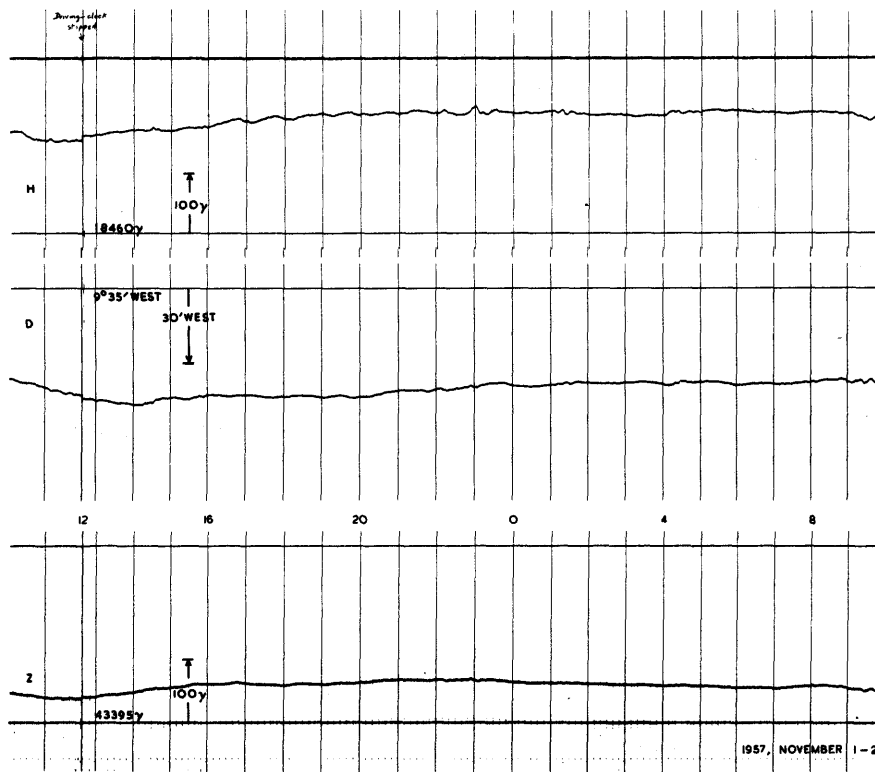
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OCTOBER 30-31

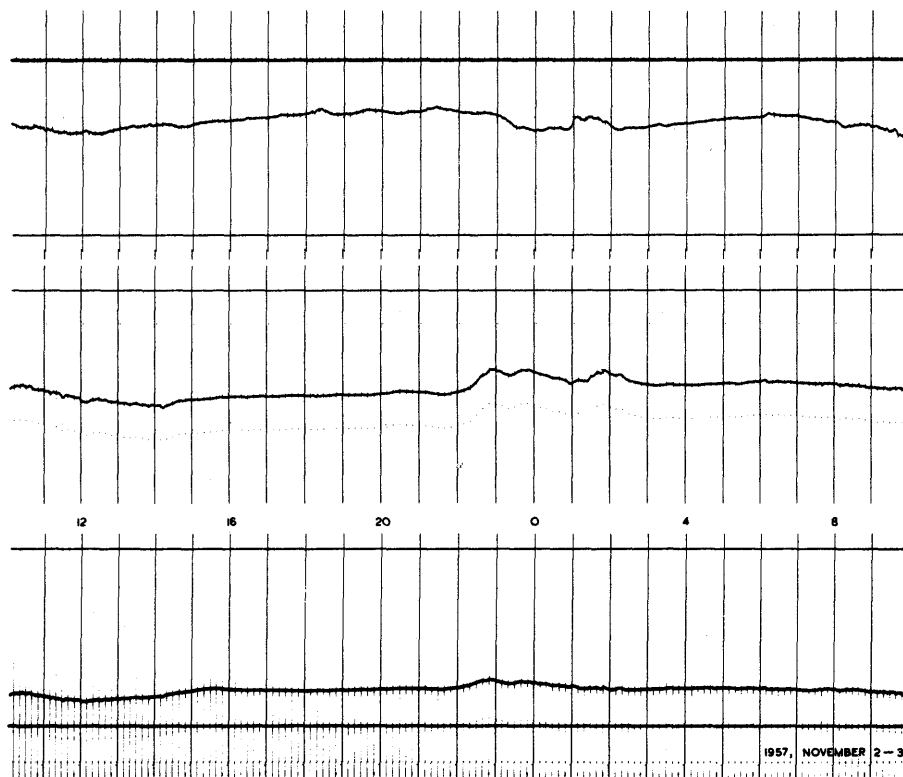


OCT.31 - NOV.1

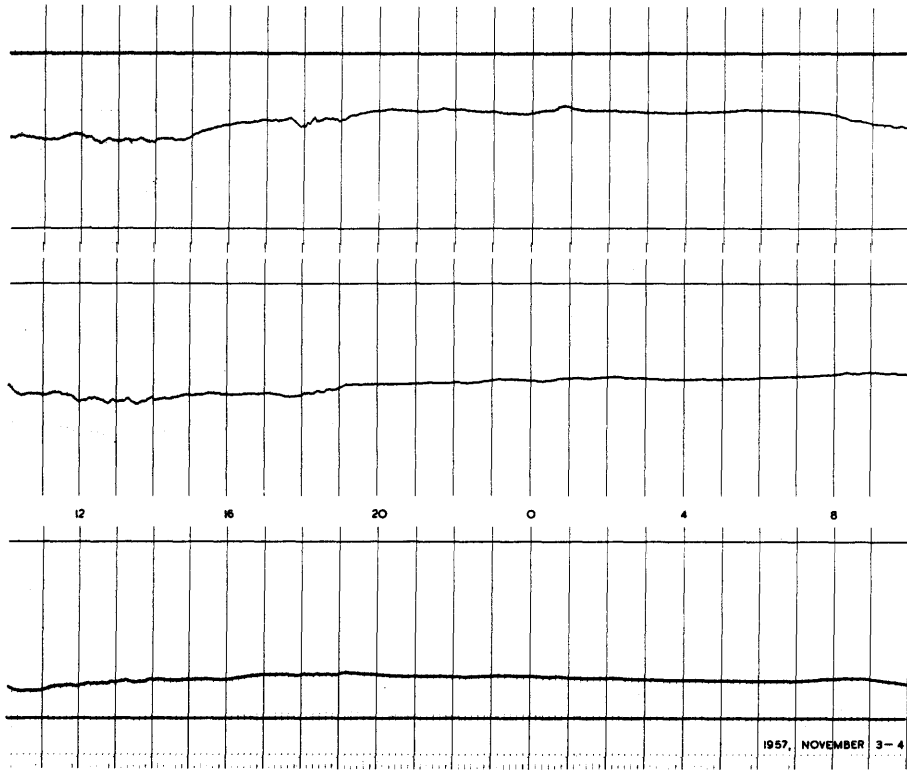
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NOVEMBER 1-2

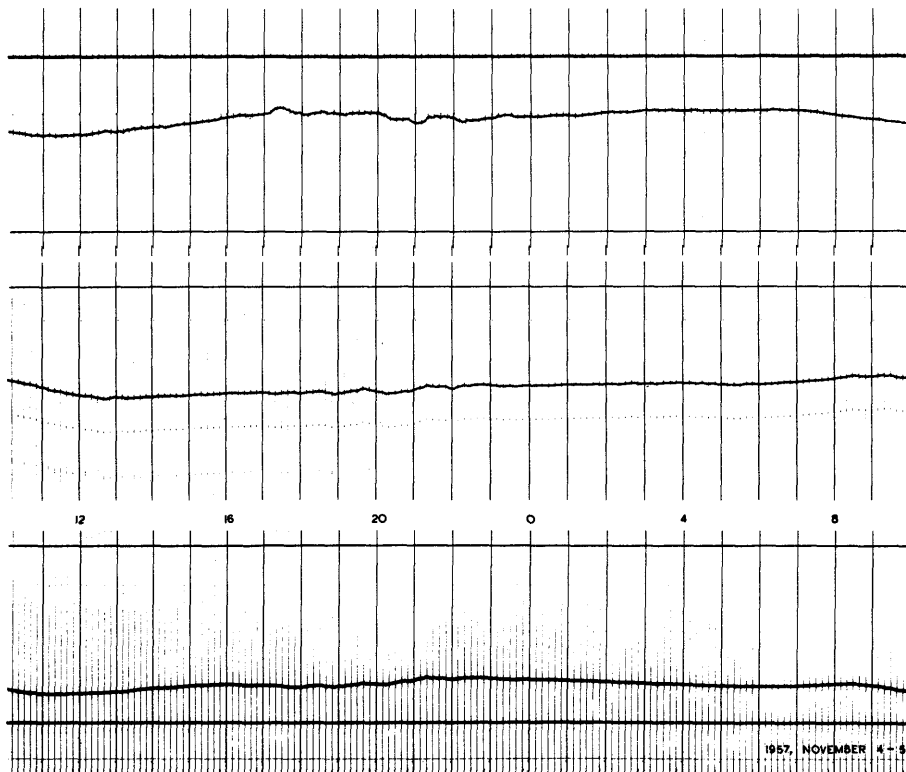


NOVEMBER 2-3



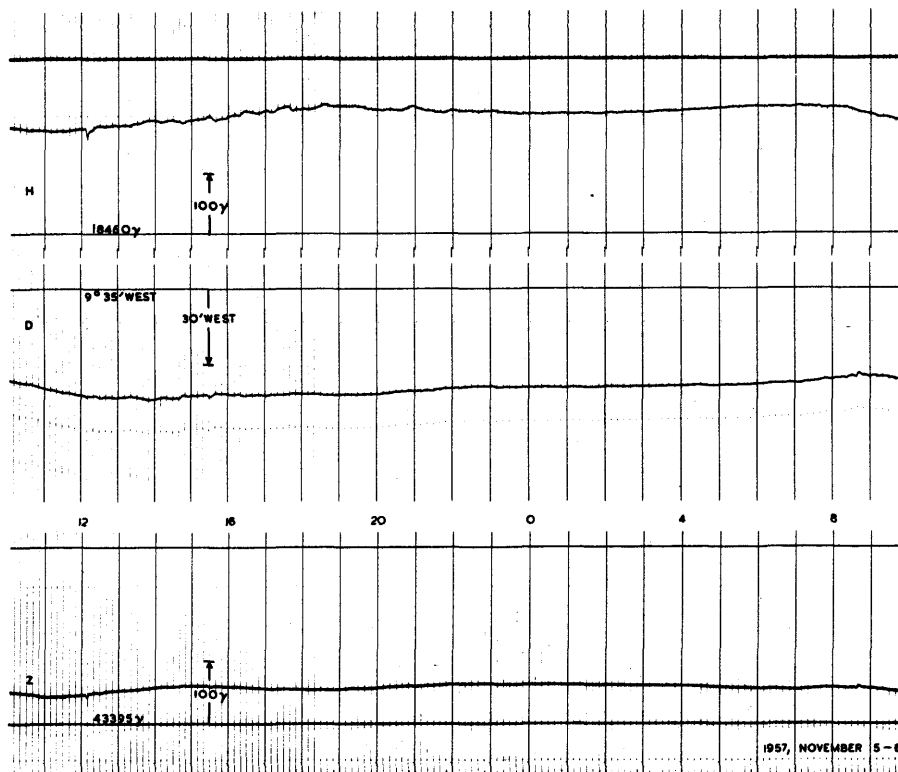
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NOVEMBER 3-4

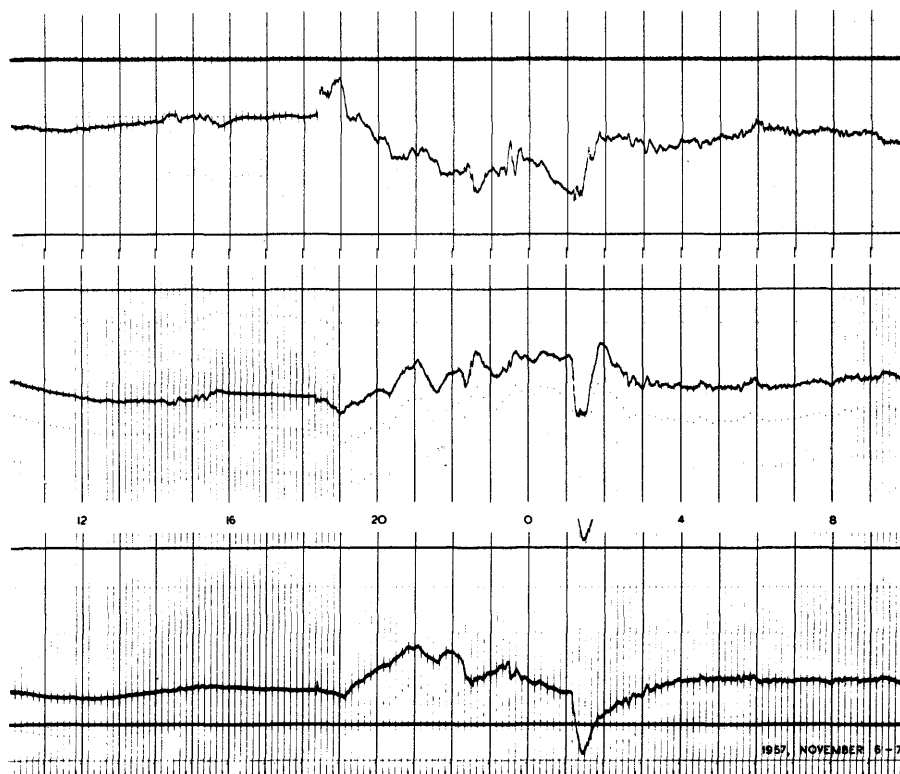


NOVEMBER 4-5

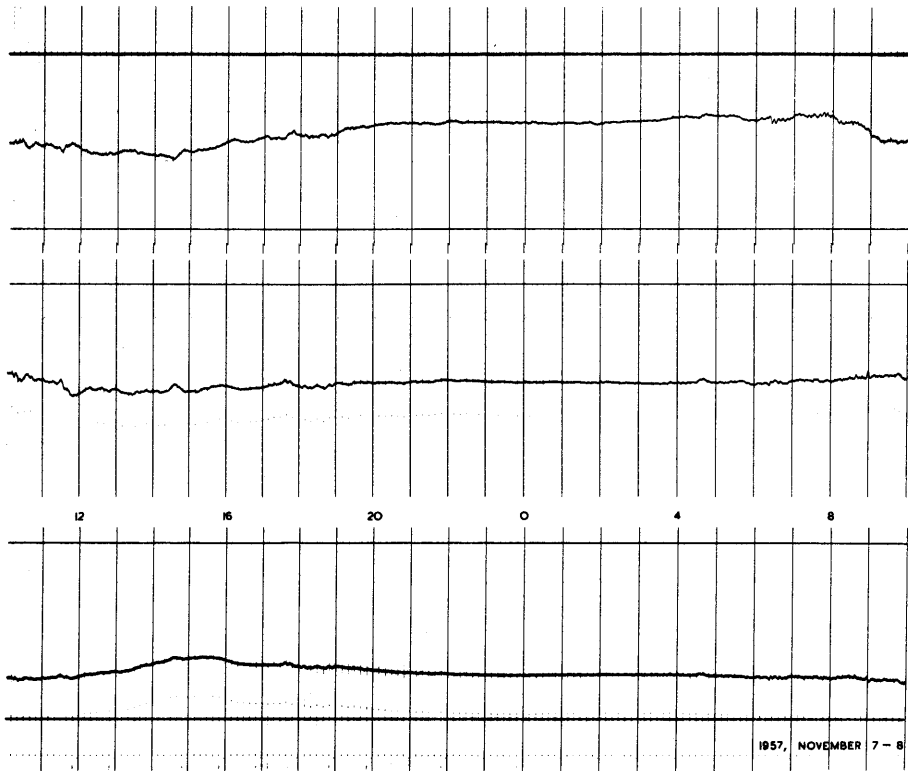
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NOVEMBER 5-6

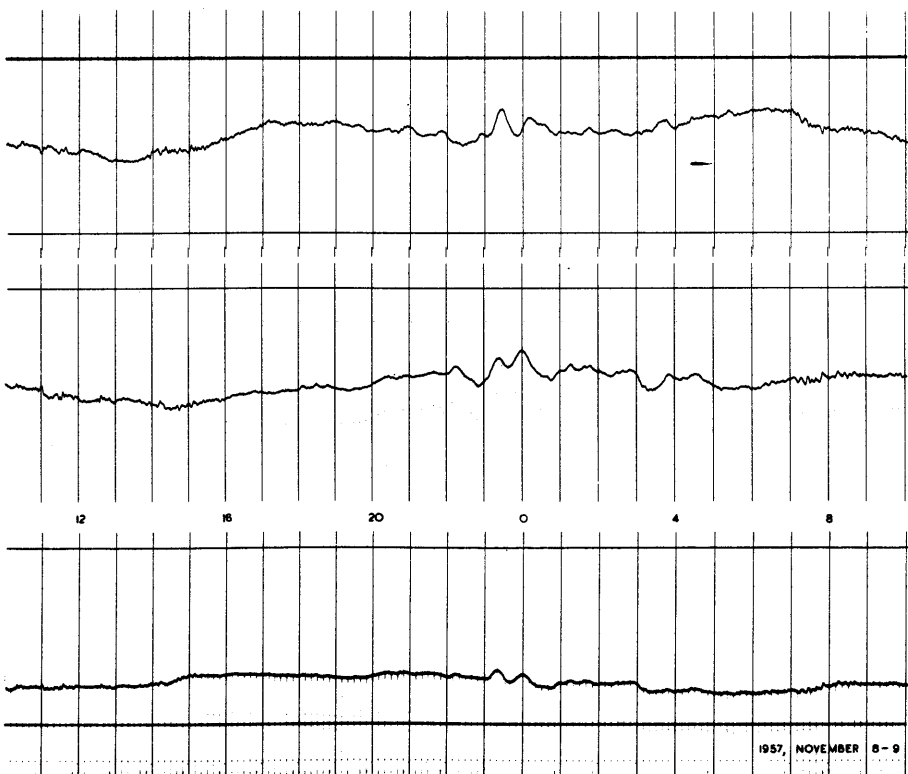


NOVEMBER 6-7



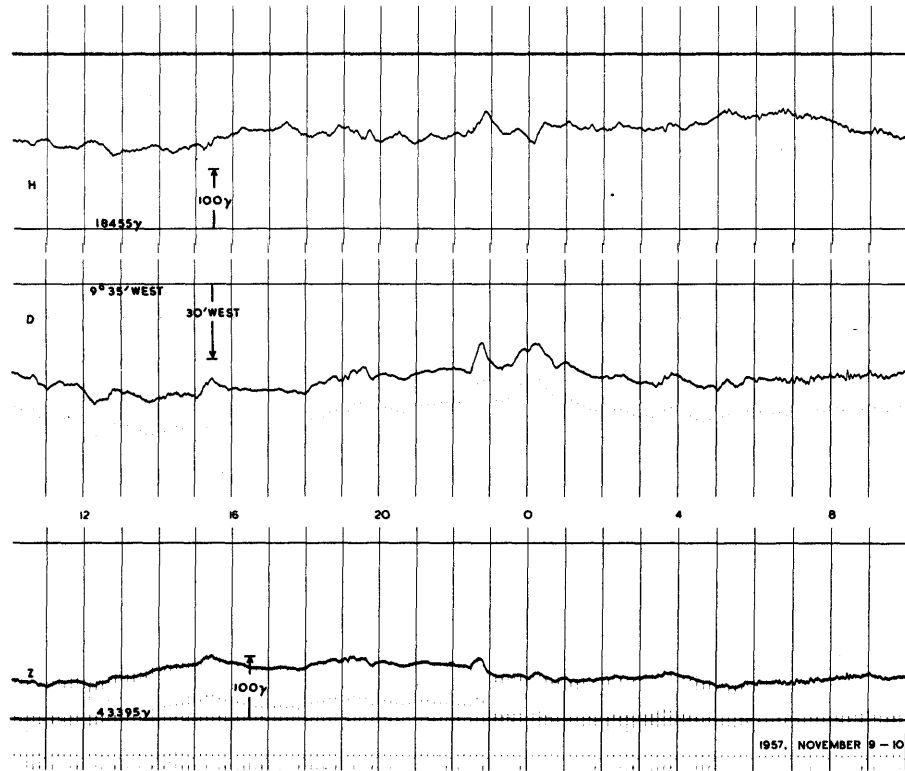
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NOVEMBER 7-8

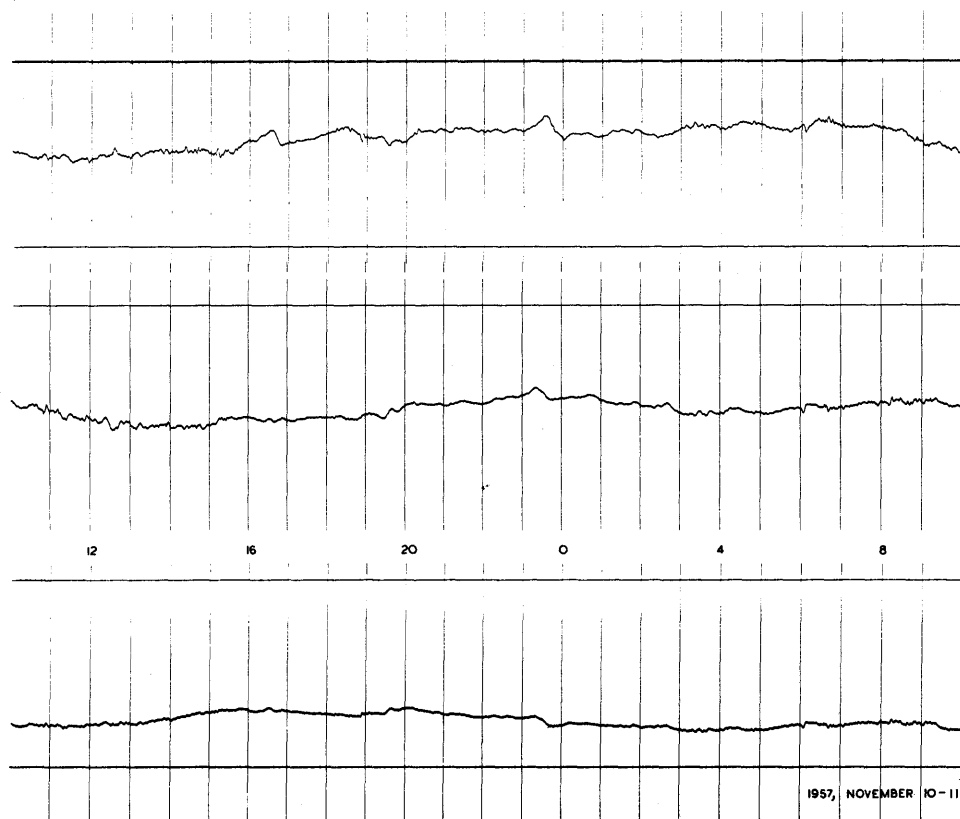


NOVEMBER 8-9

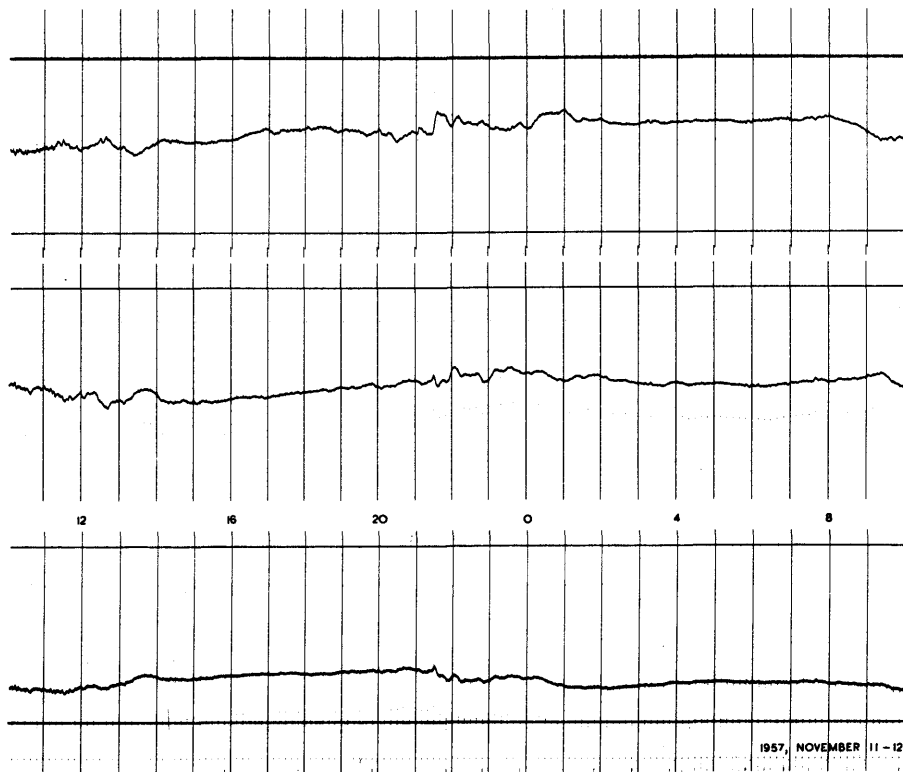
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NOVEMBER 9-10

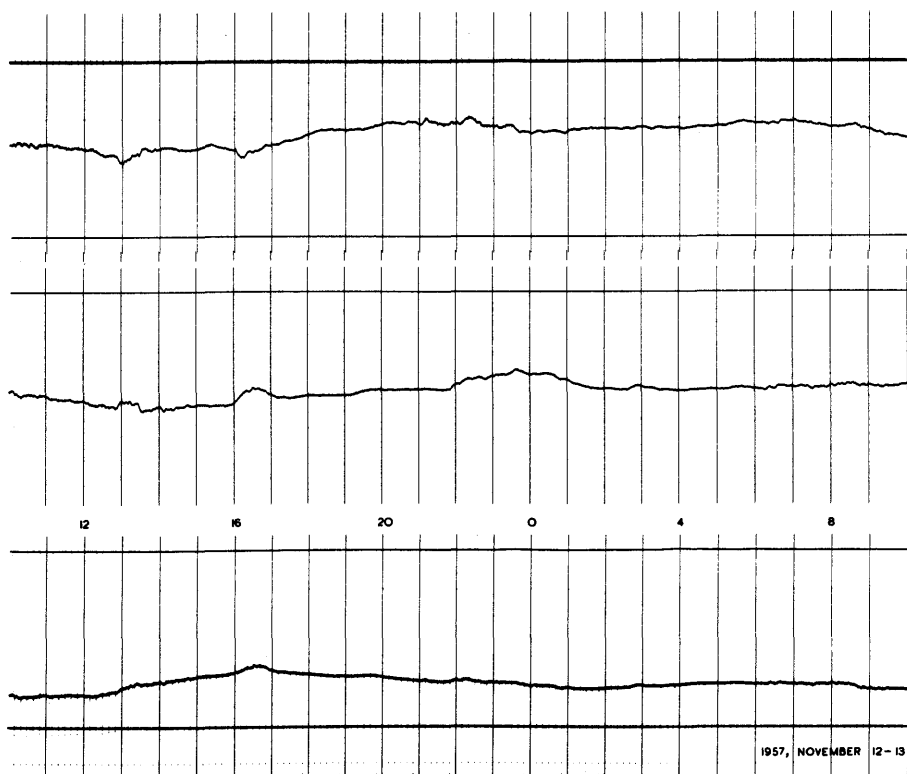


NOVEMBER 10-11



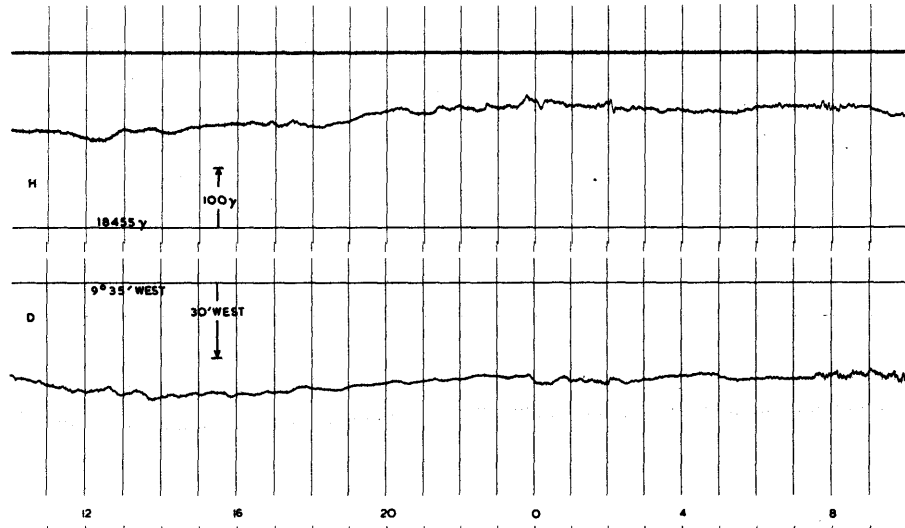
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NOVEMBER 11-12

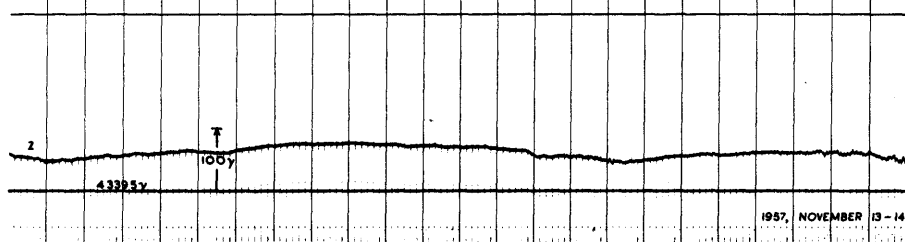


NOVEMBER 12-13

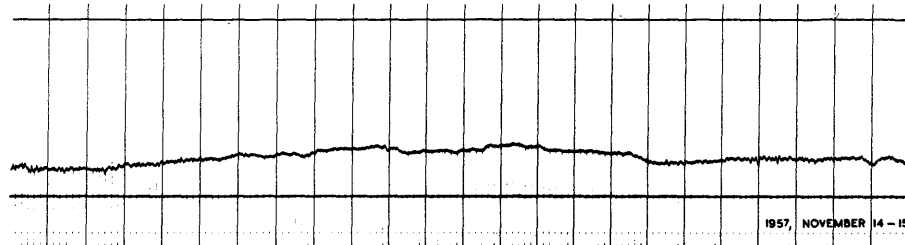
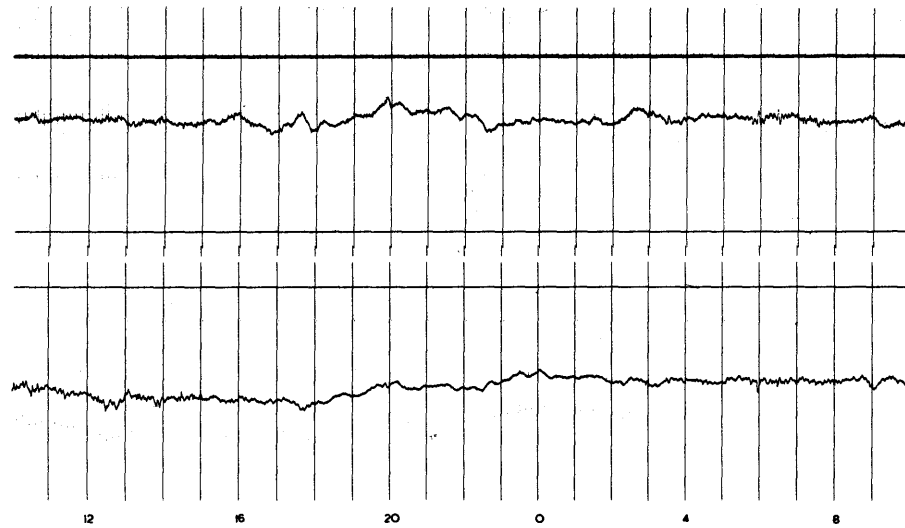
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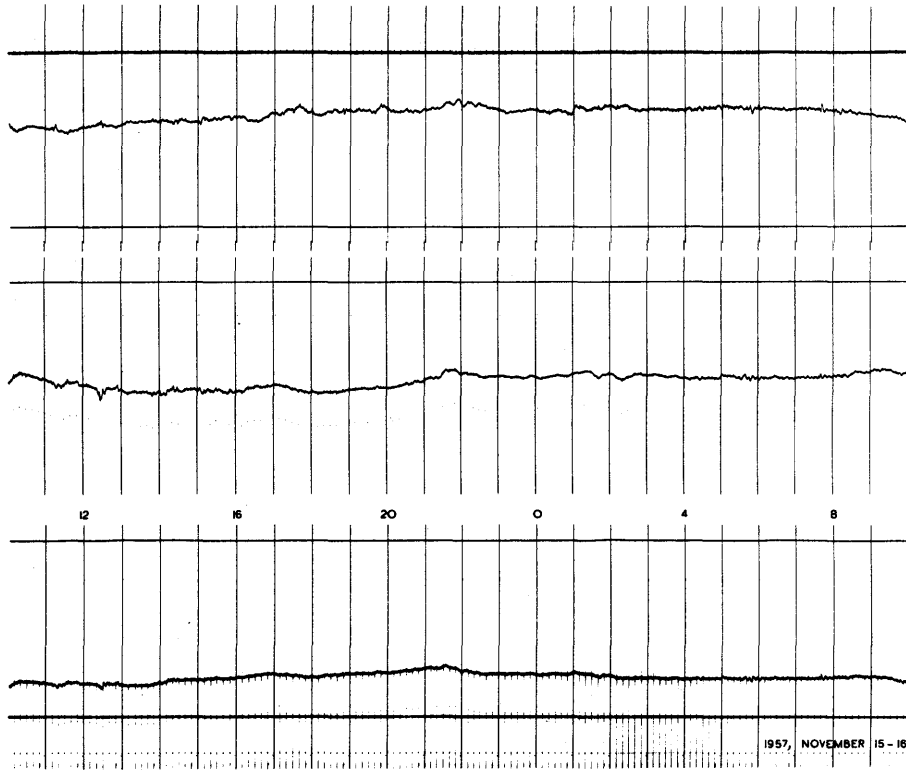


NOVEMBER 13-14



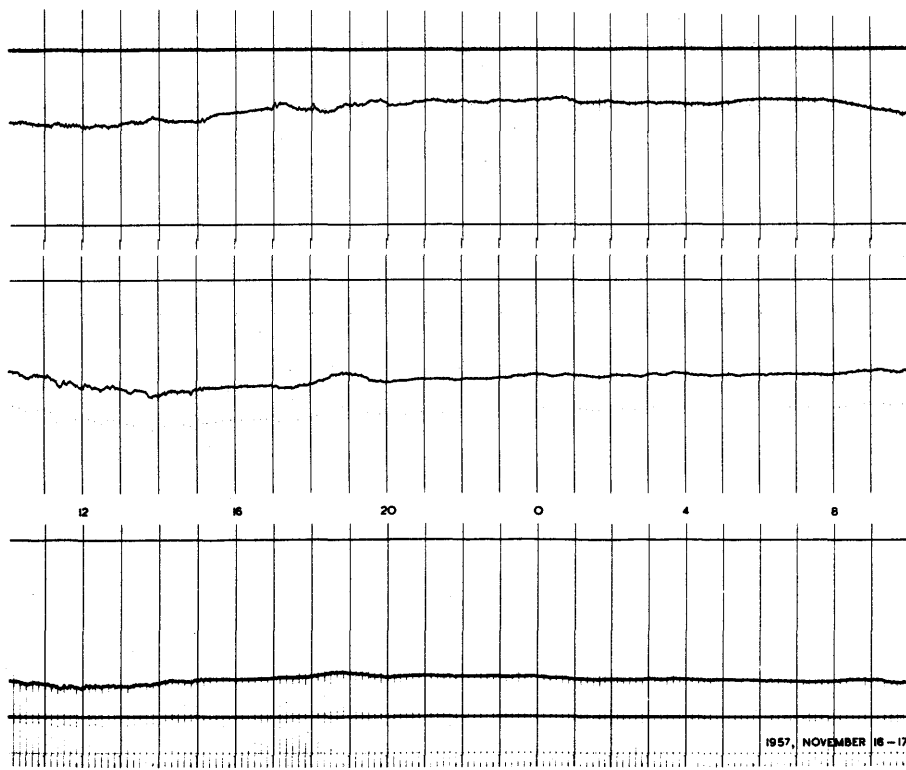
NOVEMBER 14-15





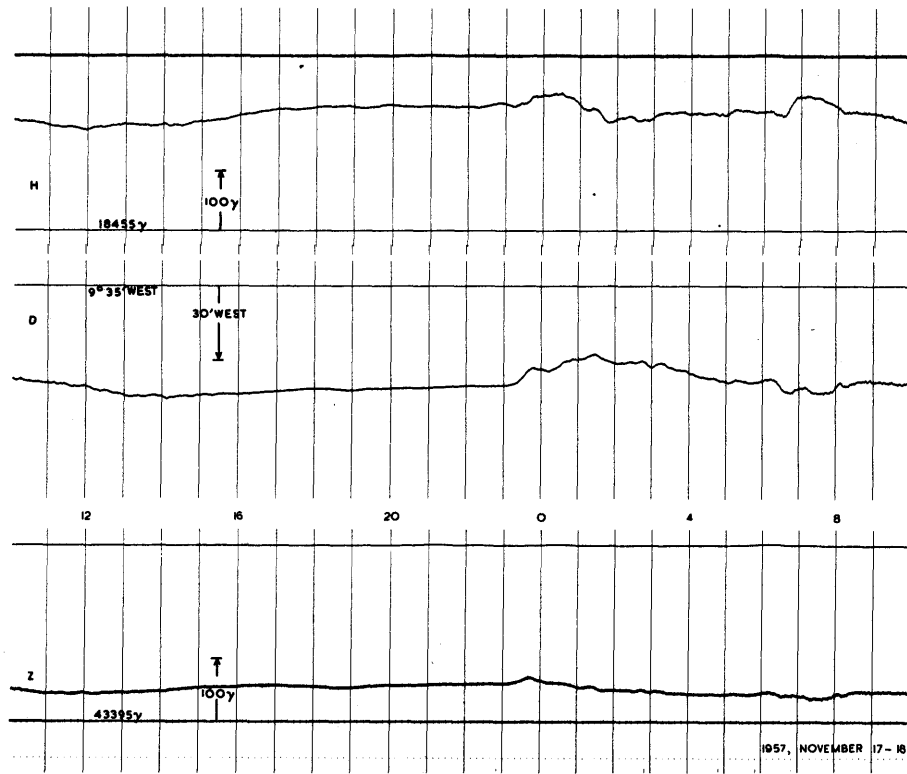
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NOVEMBER 15-16

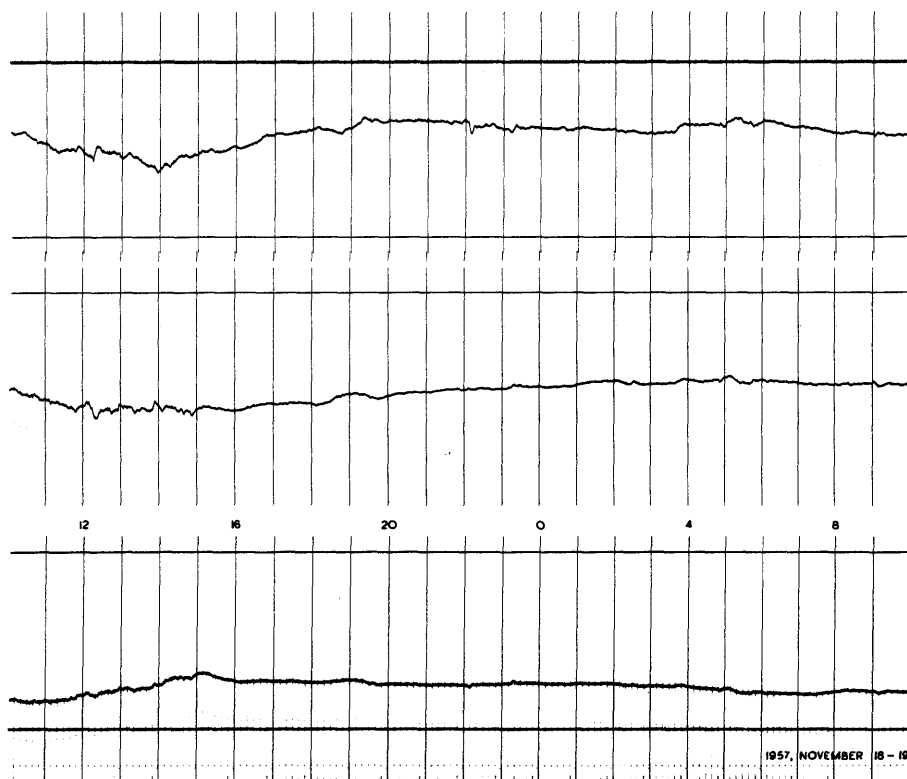


NOVEMBER 16-17

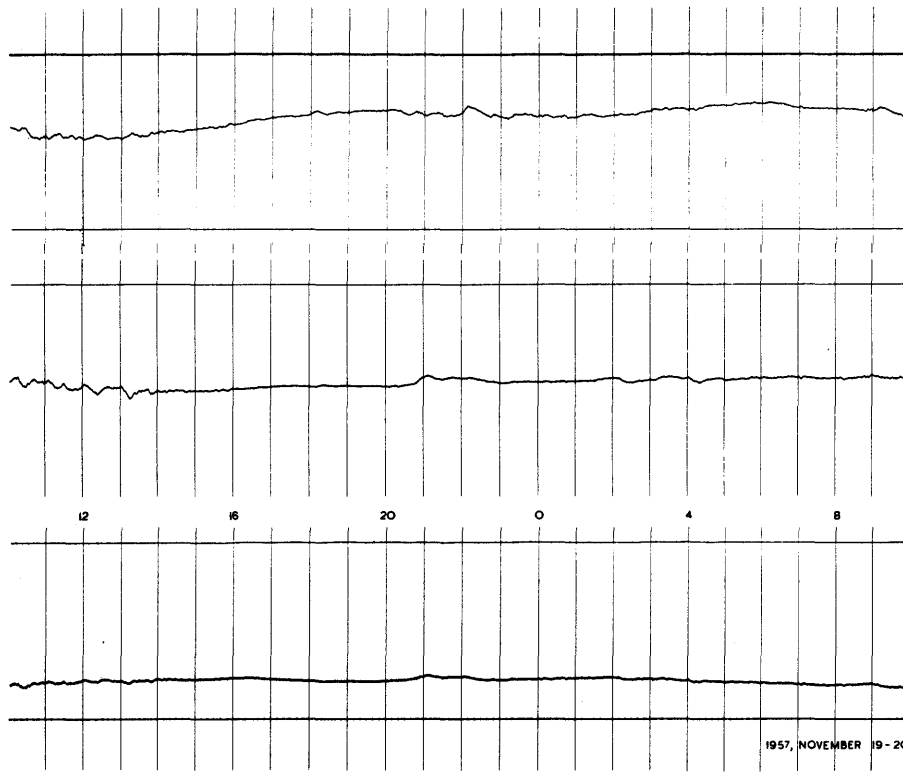
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NOVEMBER 17-18

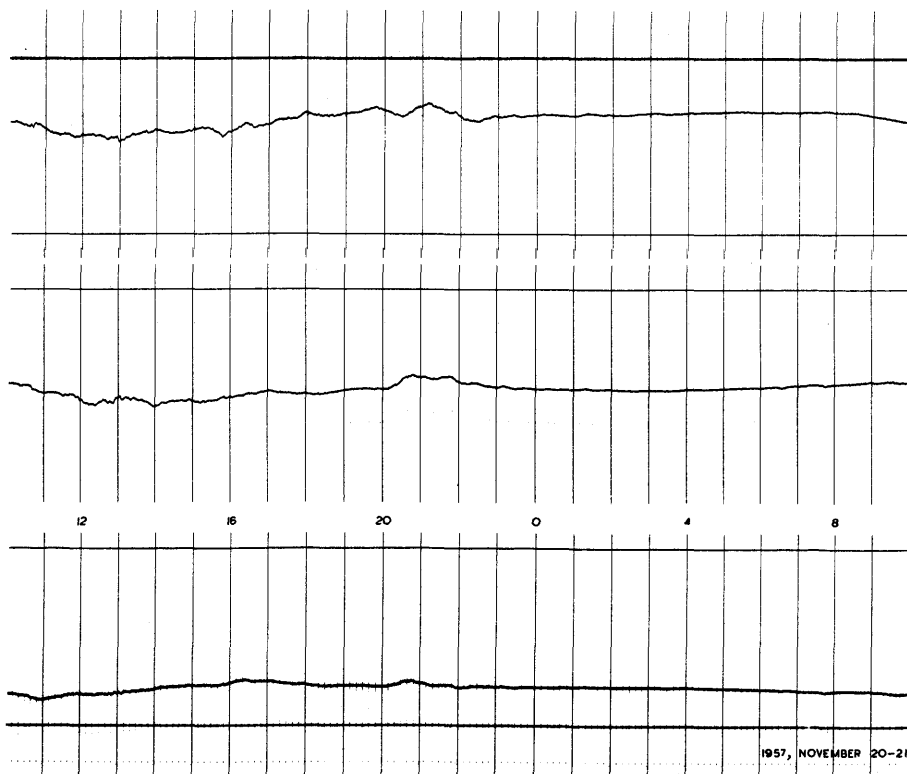


NOVEMBER 18-19



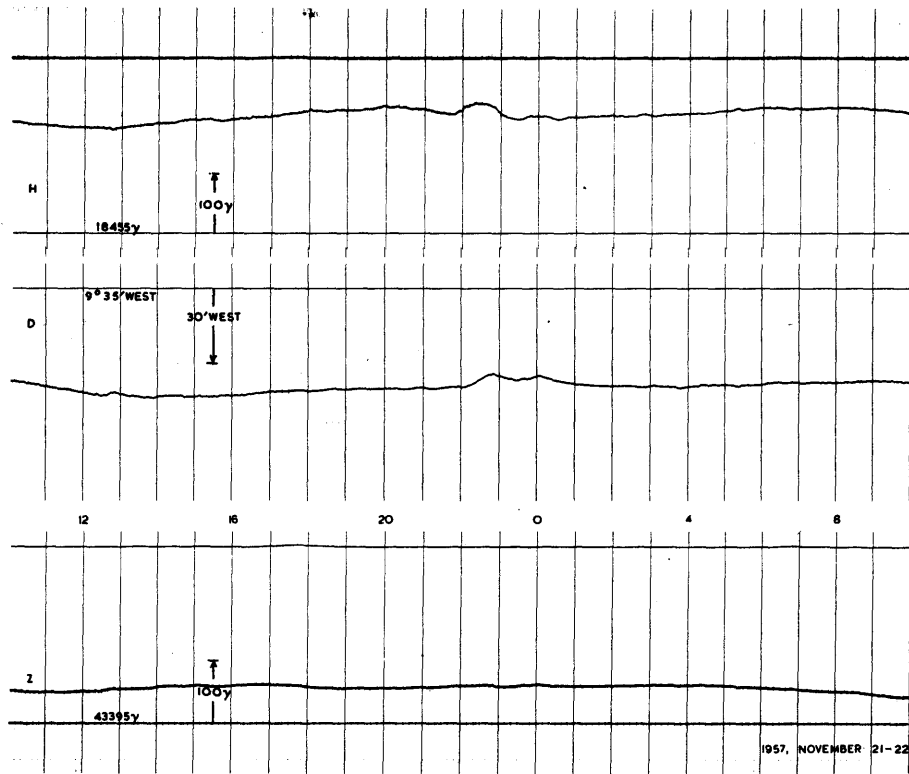
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NOVEMBER 19-20

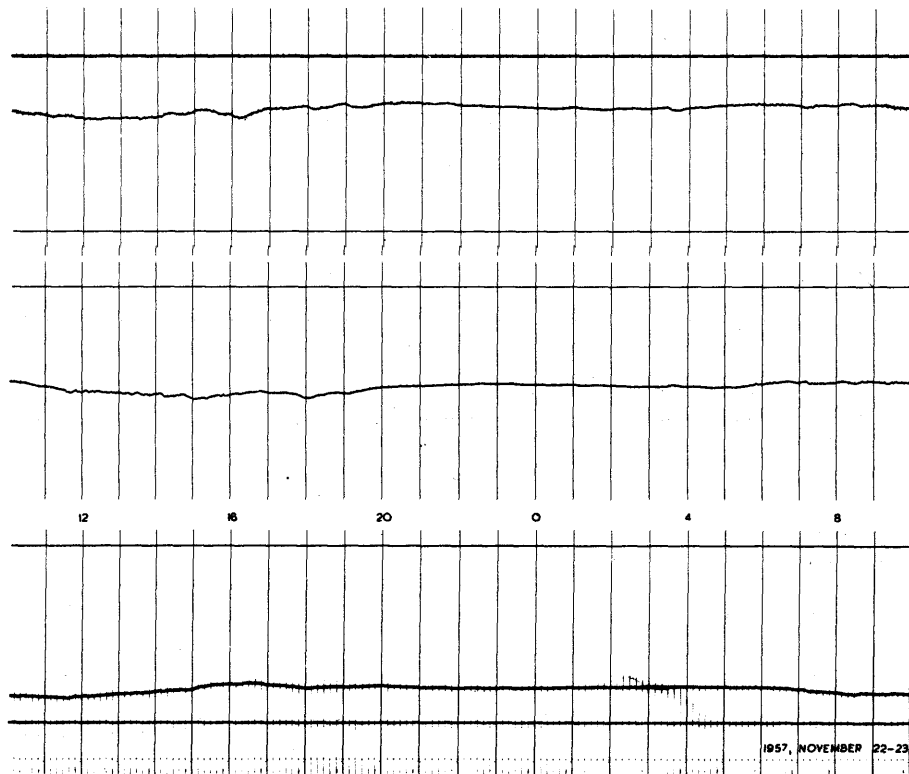


NOVEMBER 20-21

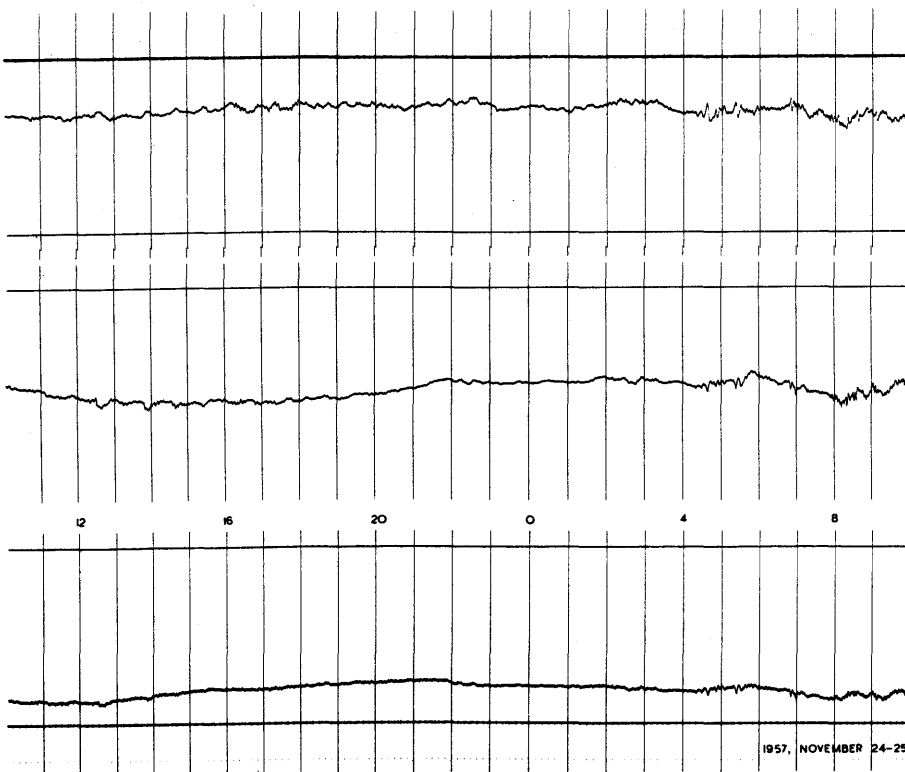
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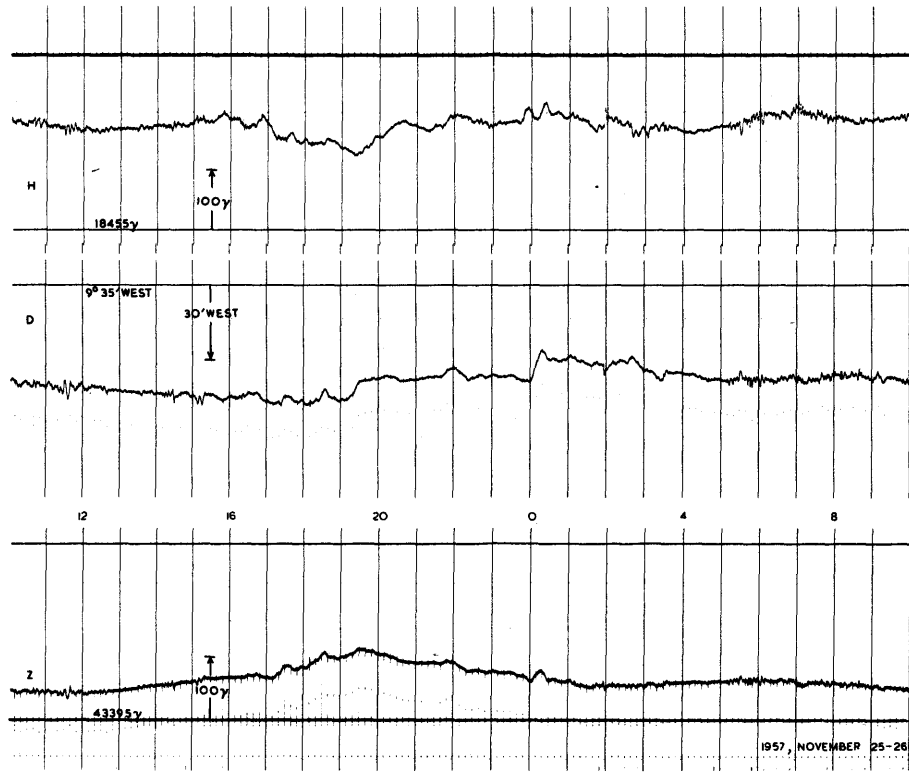
NOVEMBER 21-22



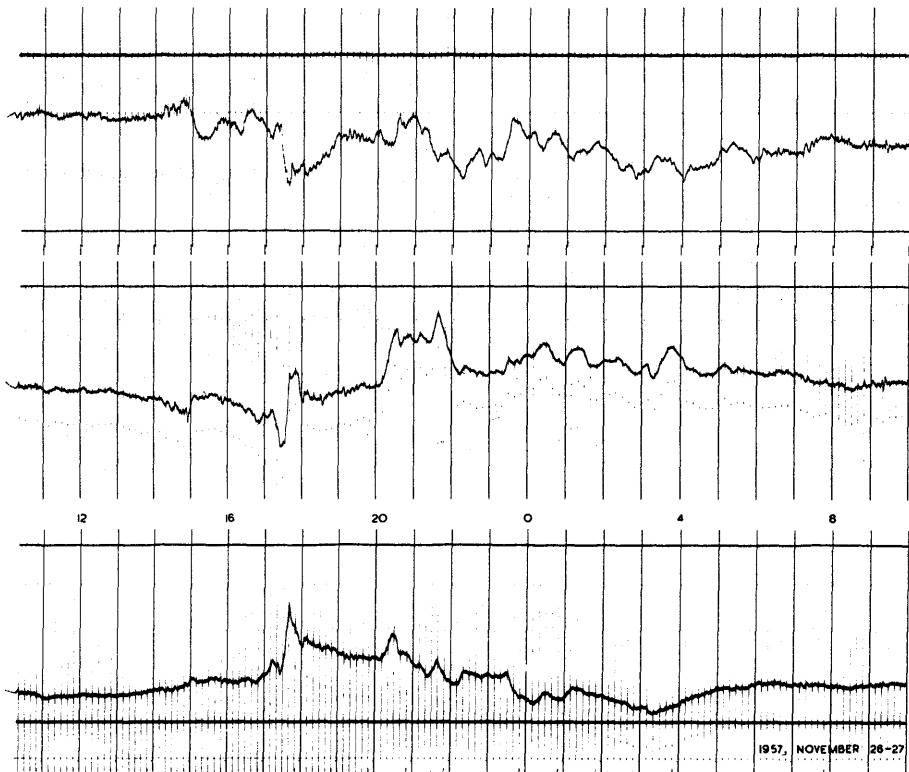
NOVEMBER 22-23



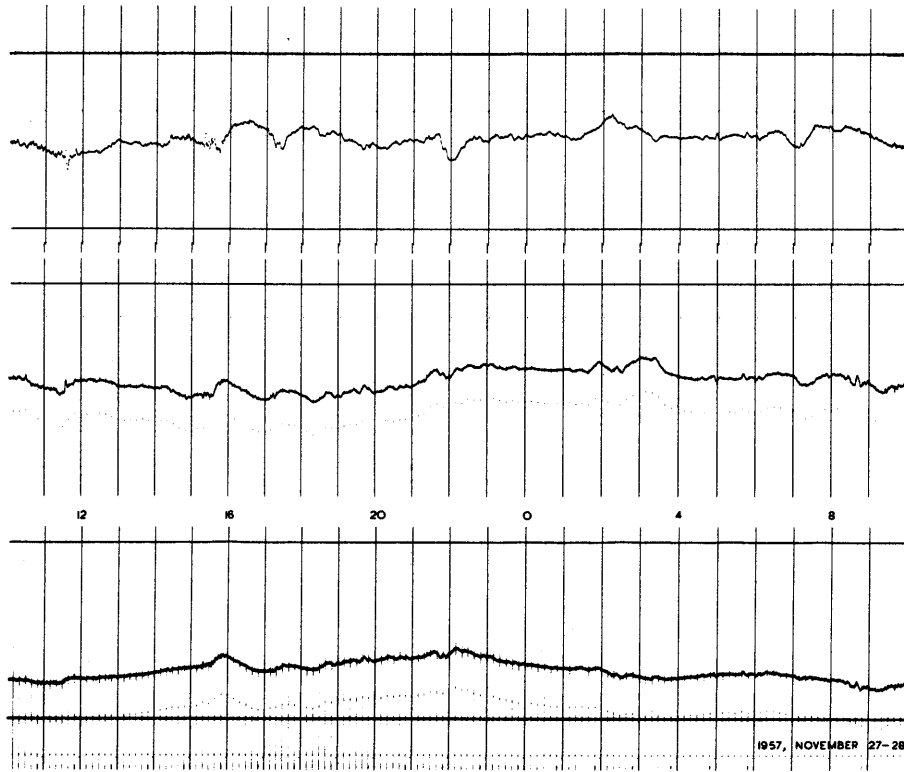
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NOVEMBER 25-26

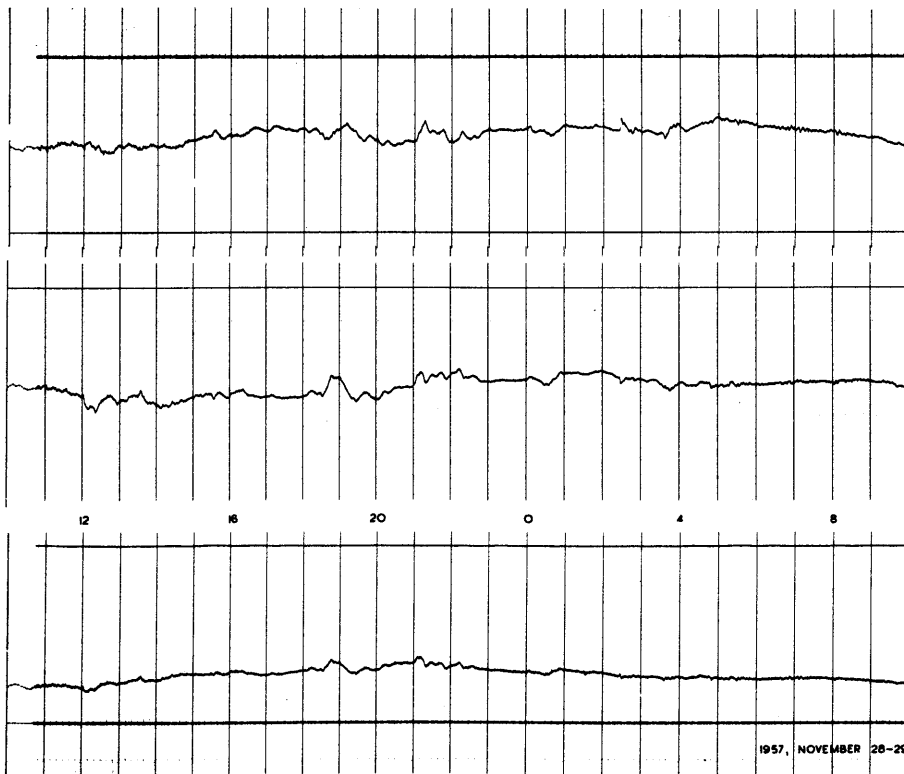


NOVEMBER 26-27



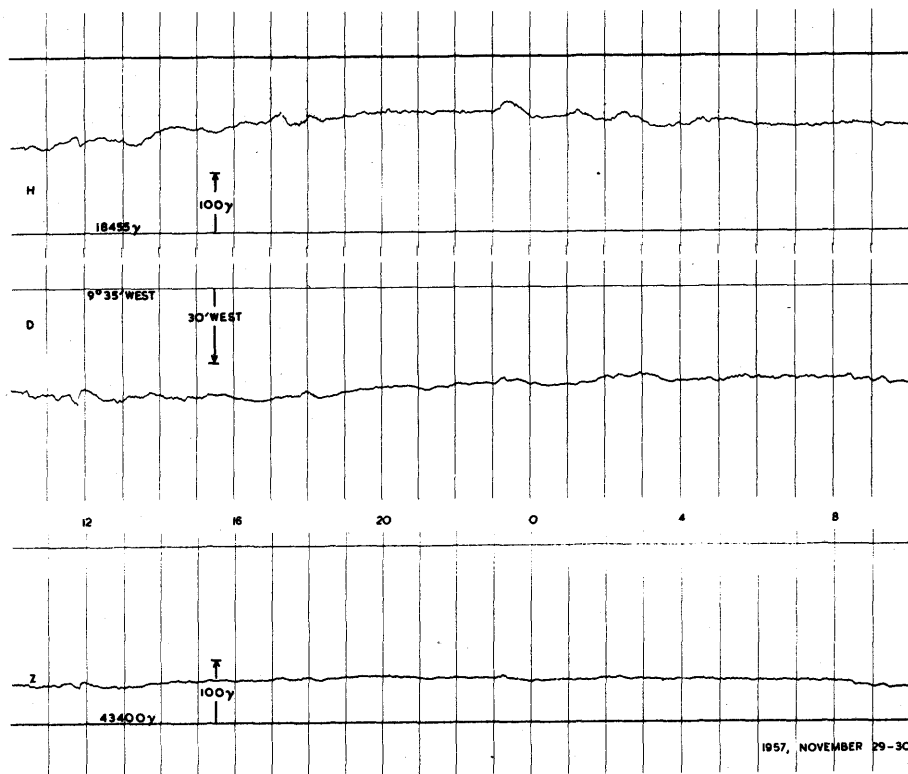
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NOVEMBER 27-28

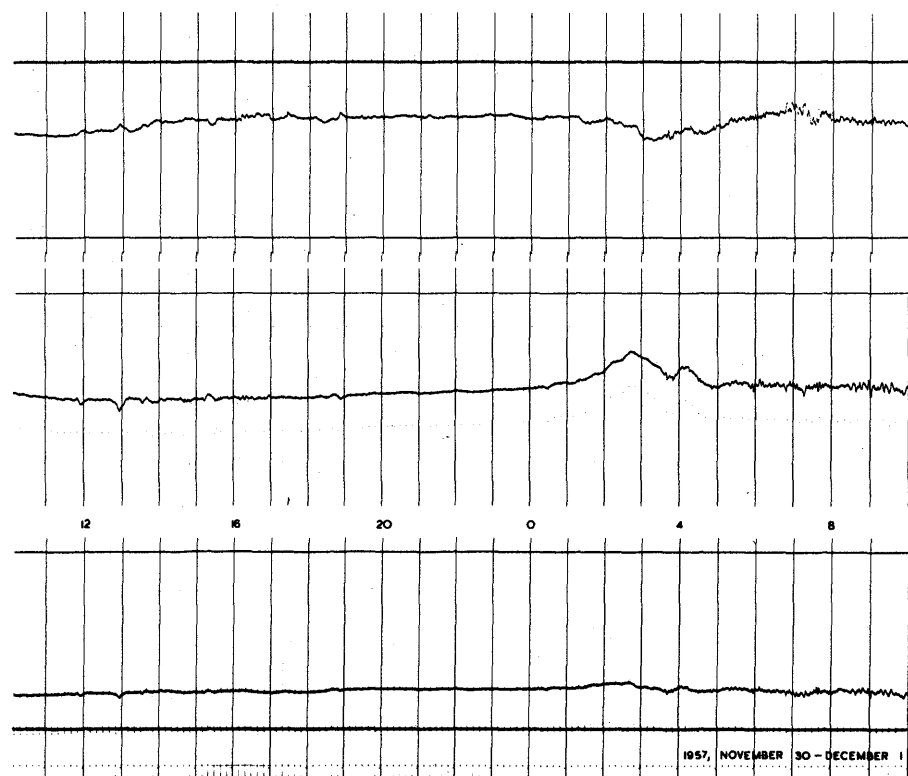


NOVEMBER 28-29

1957



NOVEMBER 29-30

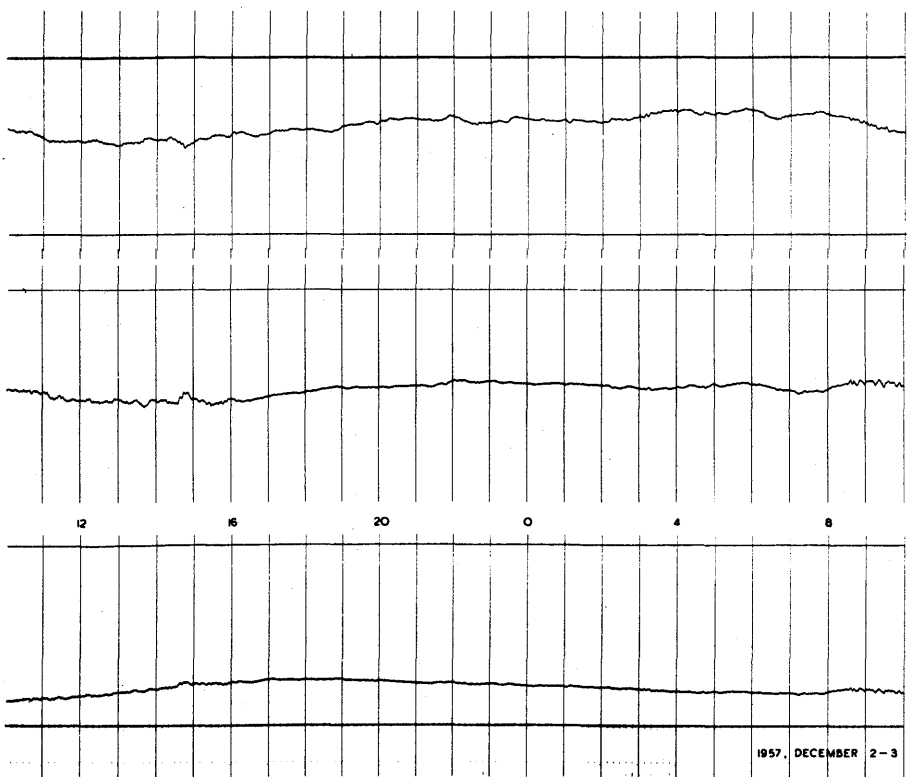


NOV.30-DEC.1



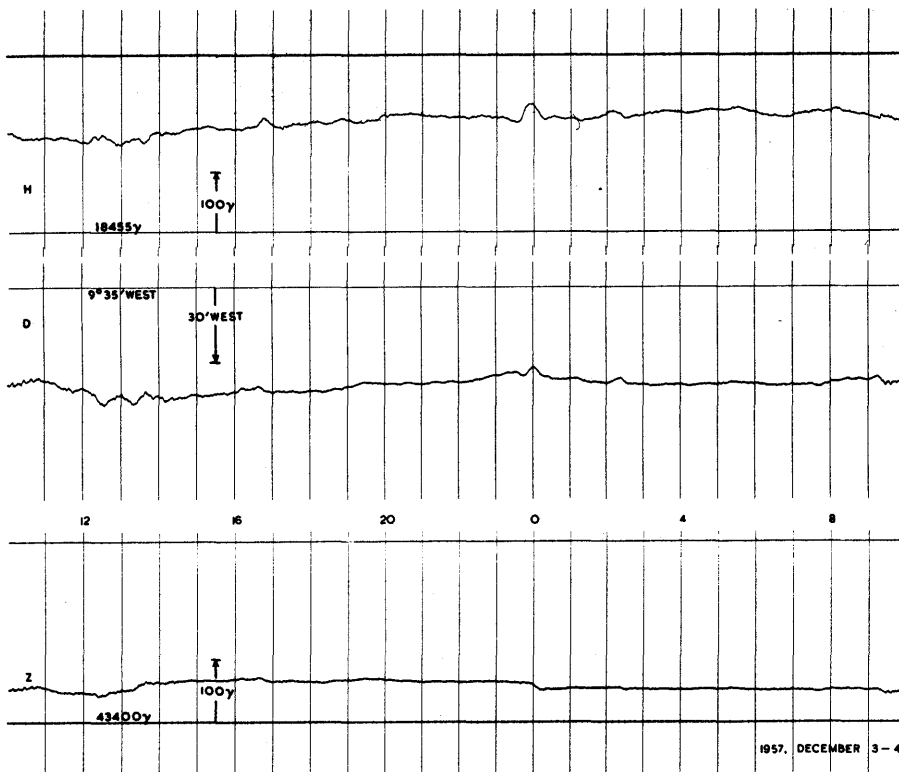
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DECEMBER 1-2

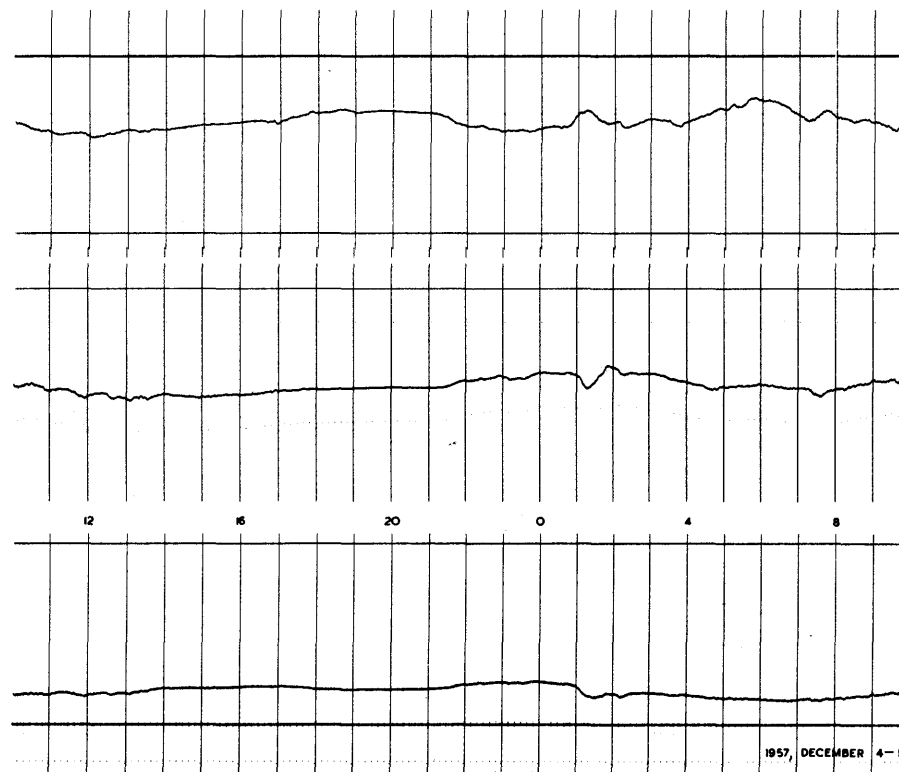


DECEMBER 2-3

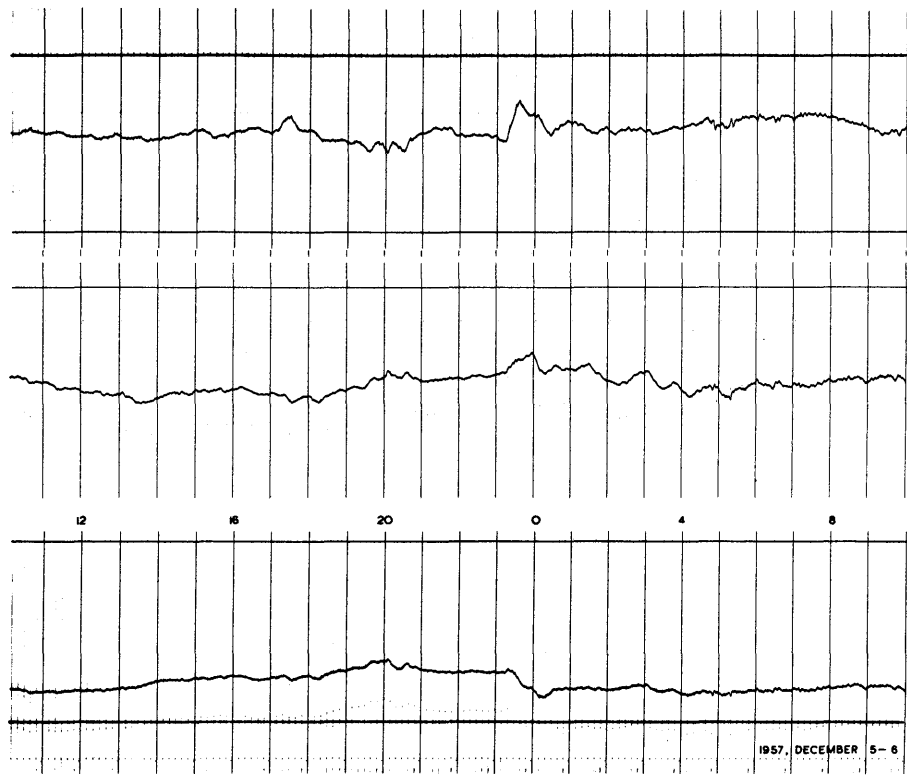
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DECEMBER 3-4

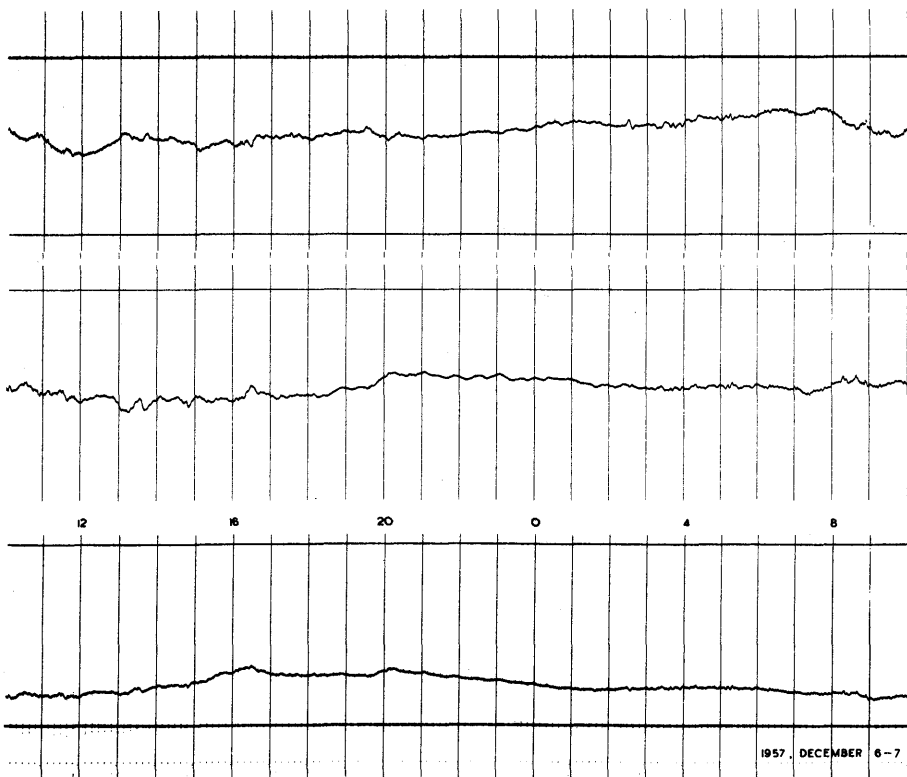


DECEMBER 4-5



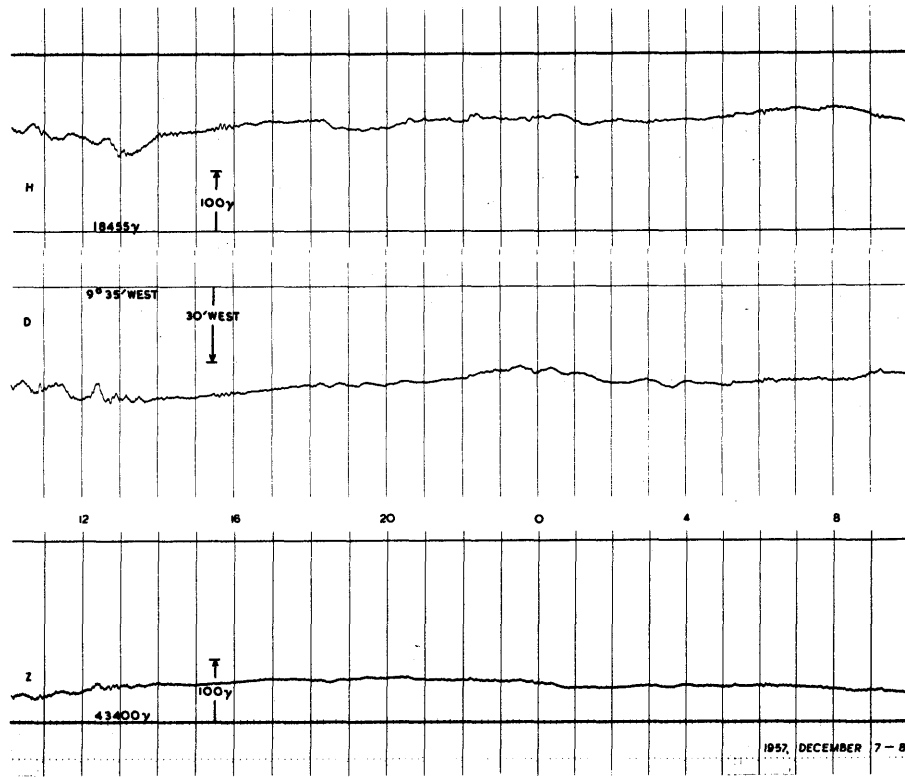
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DECEMBER 5-6



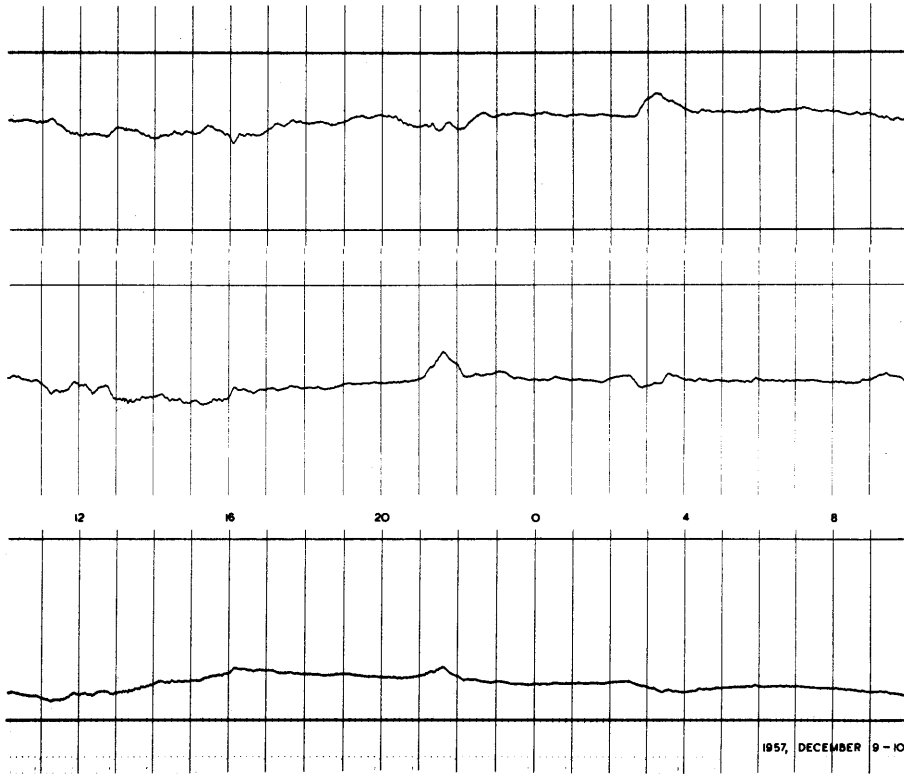
DECEMBER 6-7

1957



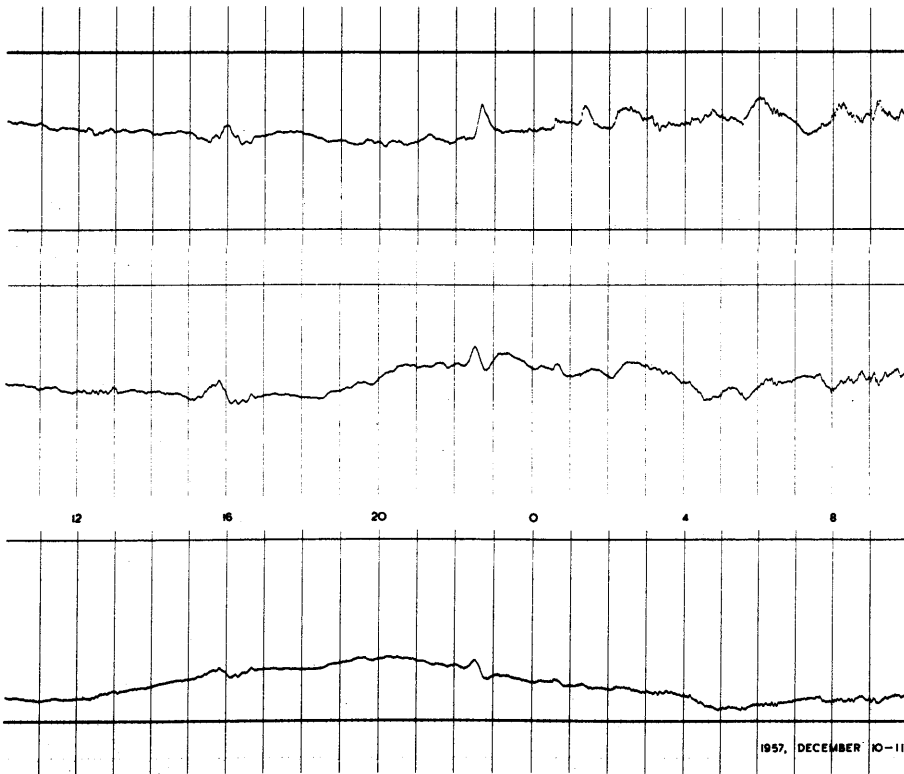
DECEMBER 7-8

DECEMBER 8-9



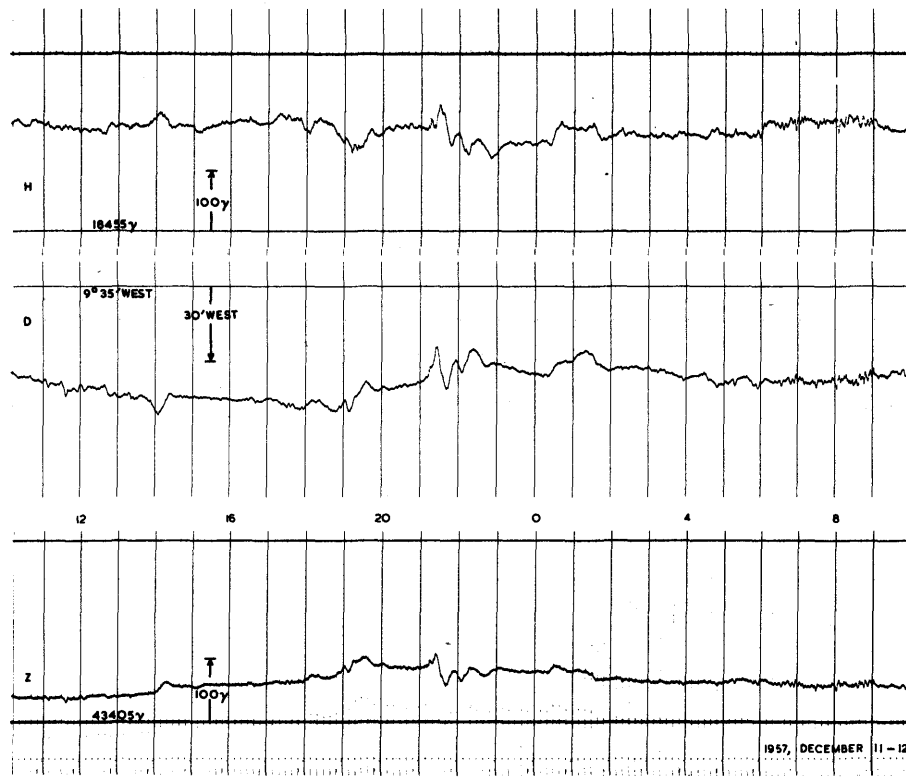
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DECEMBER 9-10

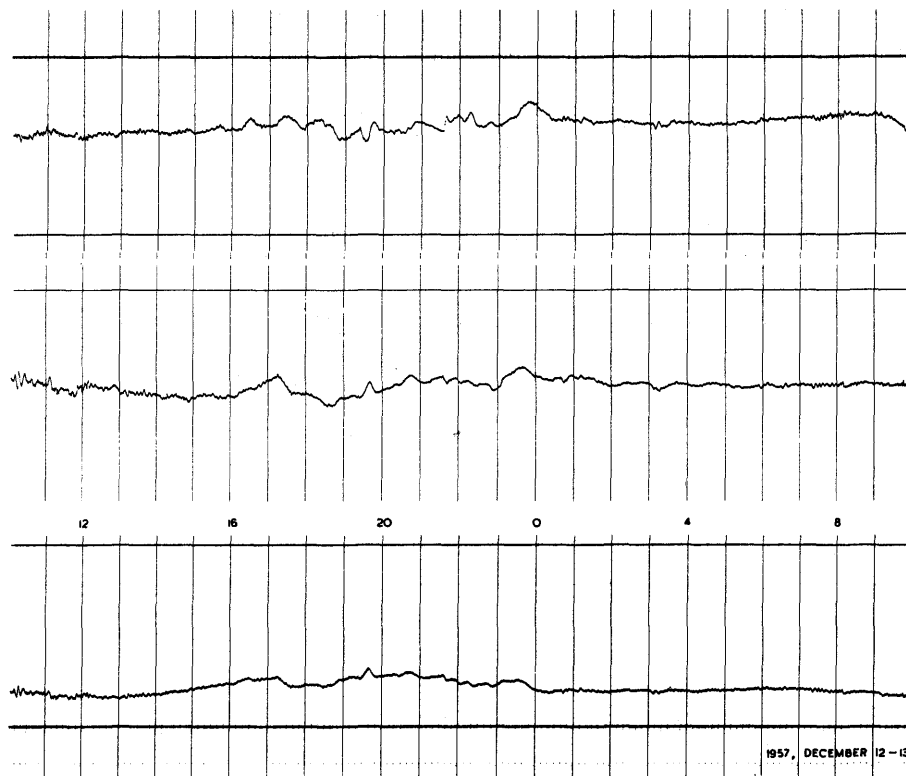


DECEMBER 10-11

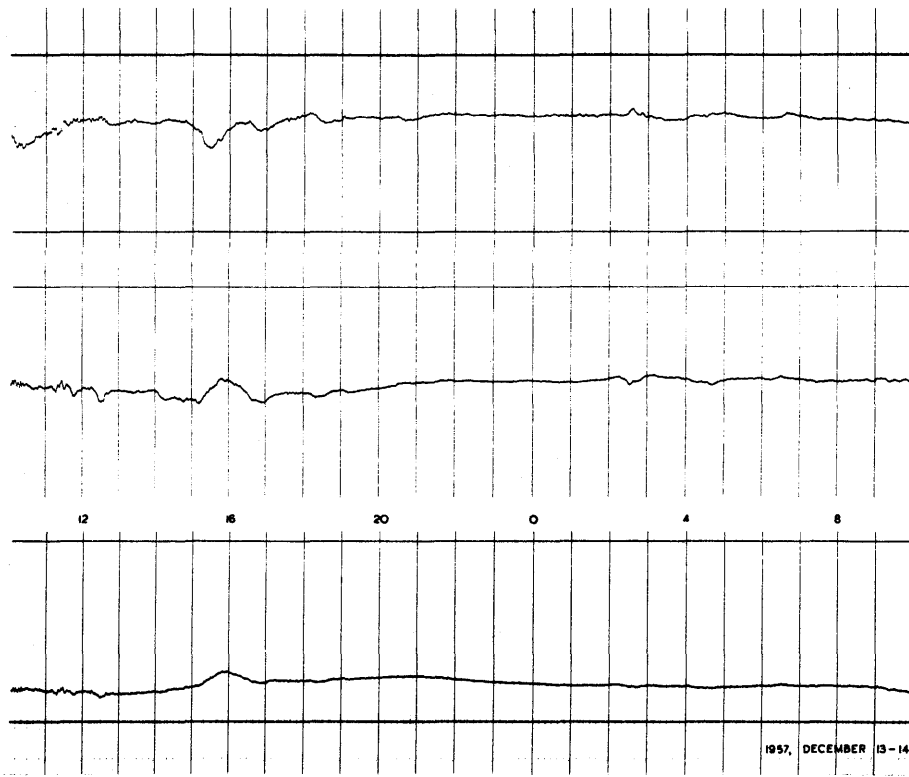
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DECEMBER 11-12

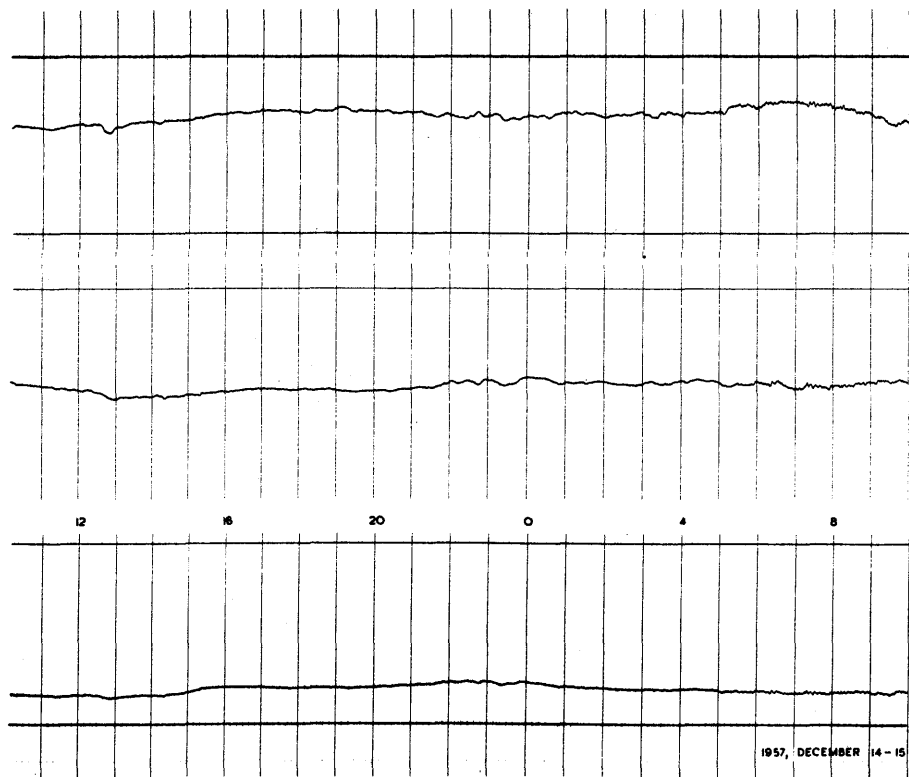


DECEMBER 12-13



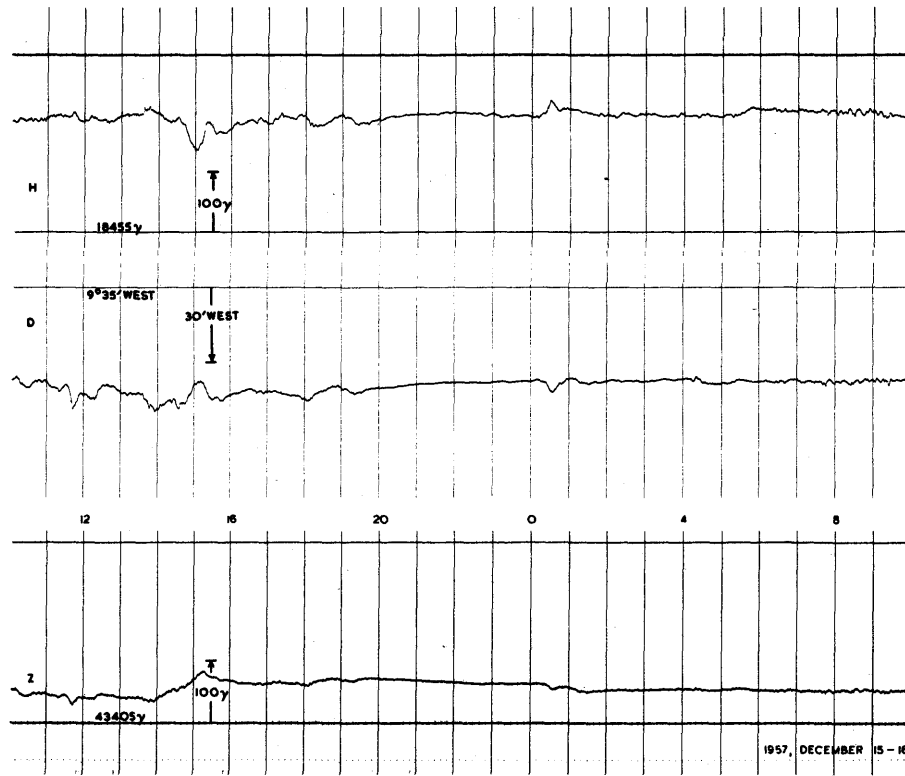
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DECEMBER 13-14

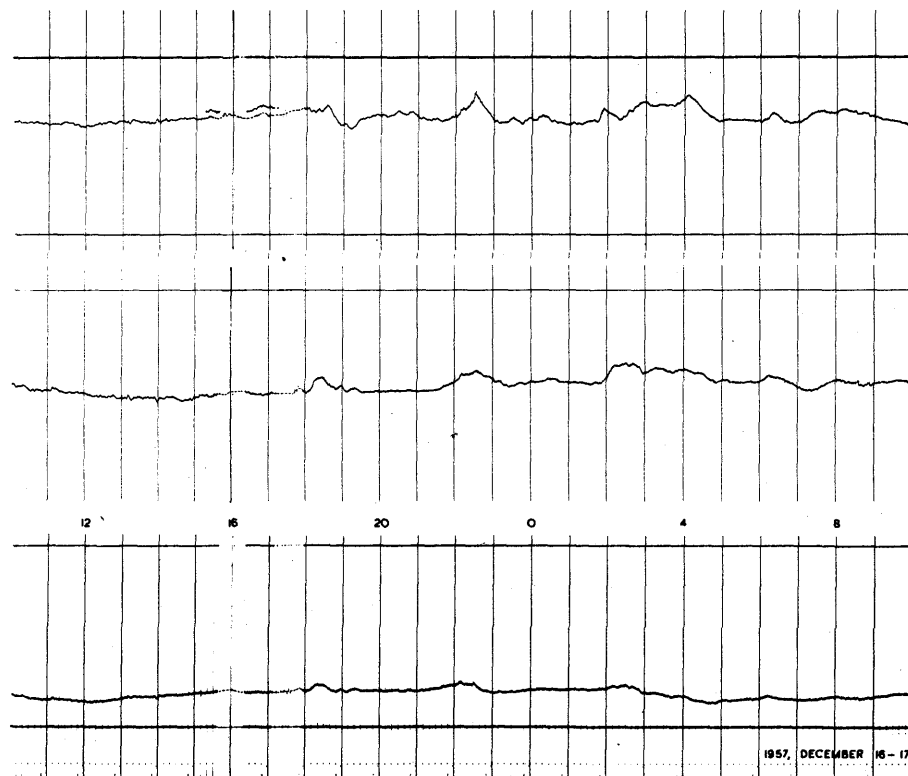


DECEMBER 14-15

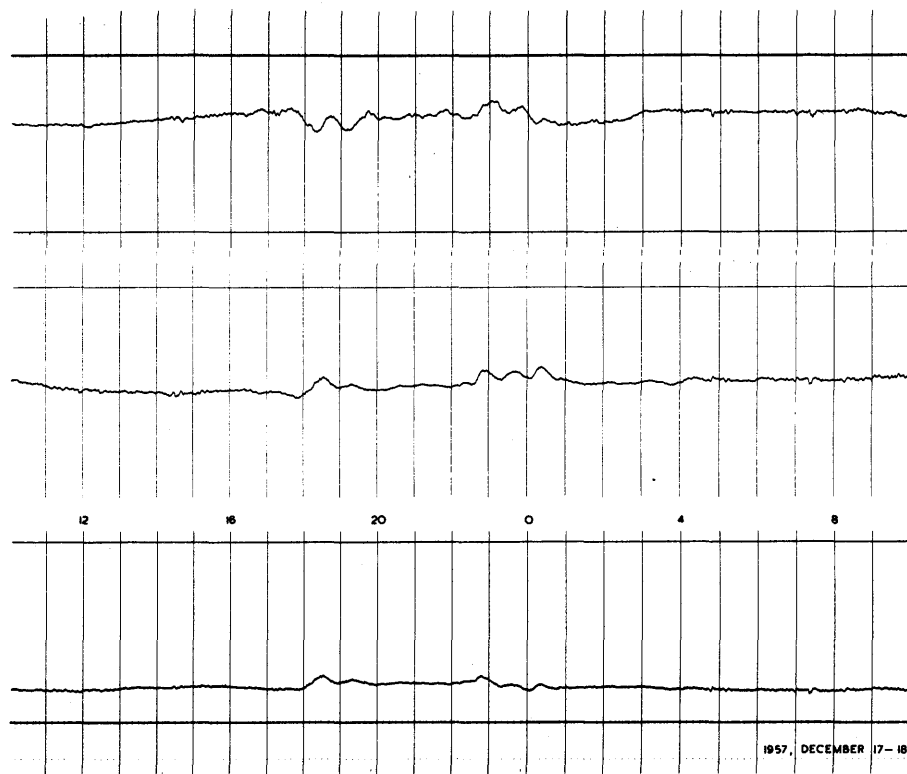
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DECEMBER 15-16

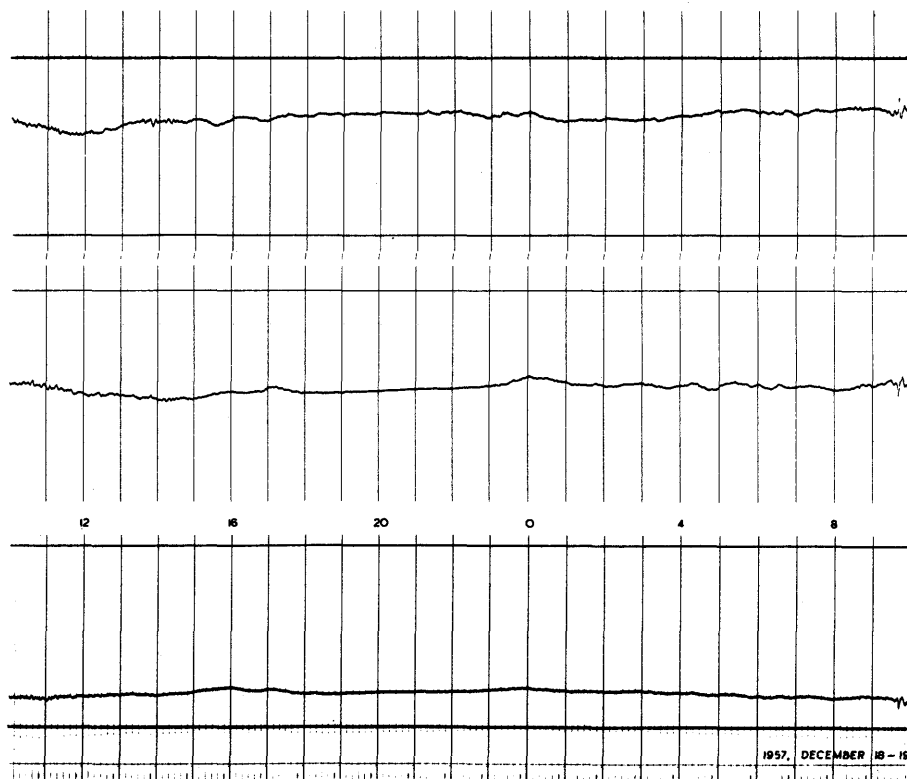


DECEMBER 16-17



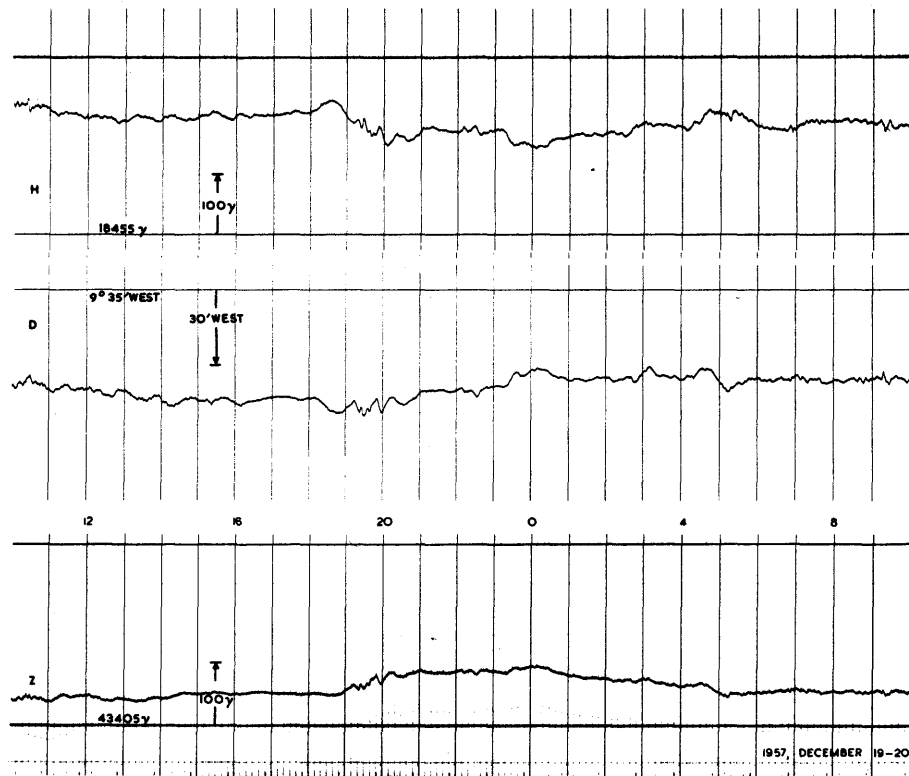
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DECEMBER 17-18

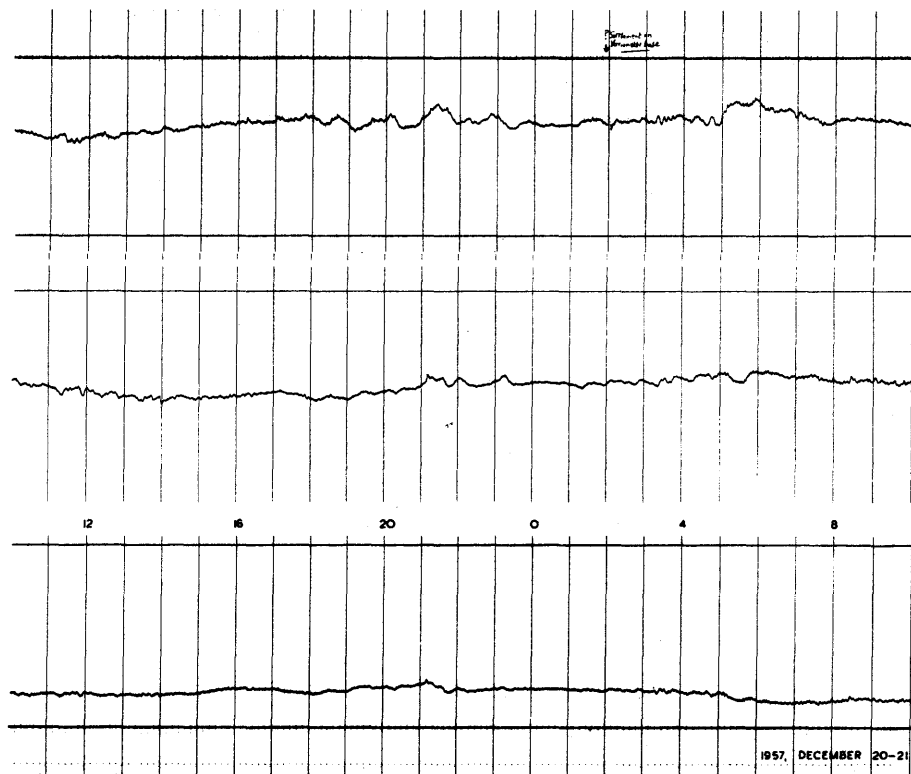


DECEMBER 18-19

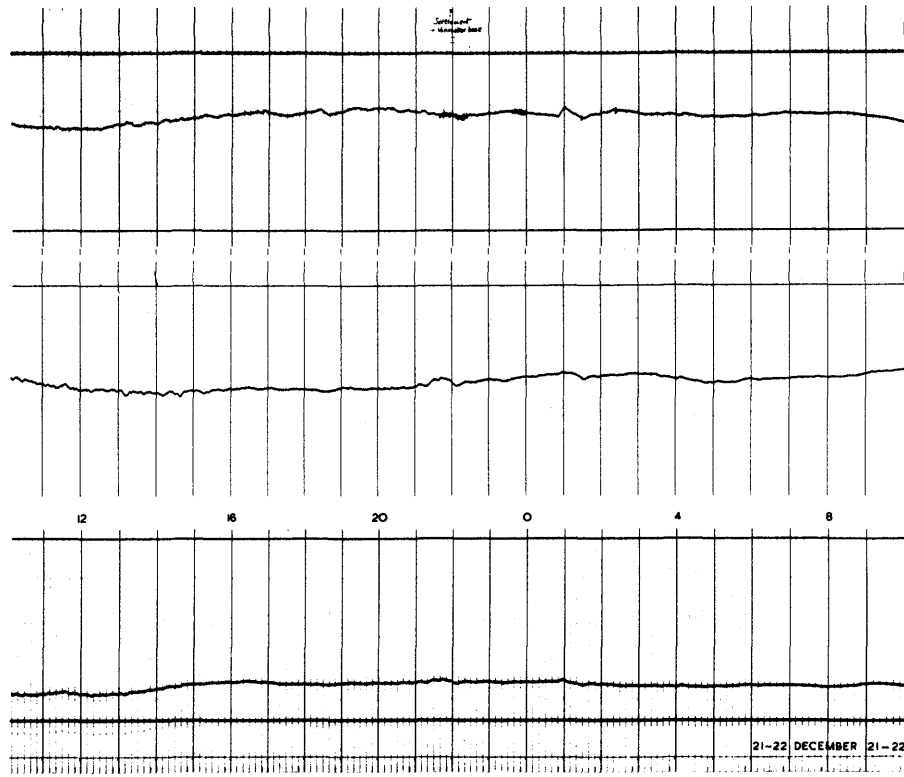
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DECEMBER 19-20

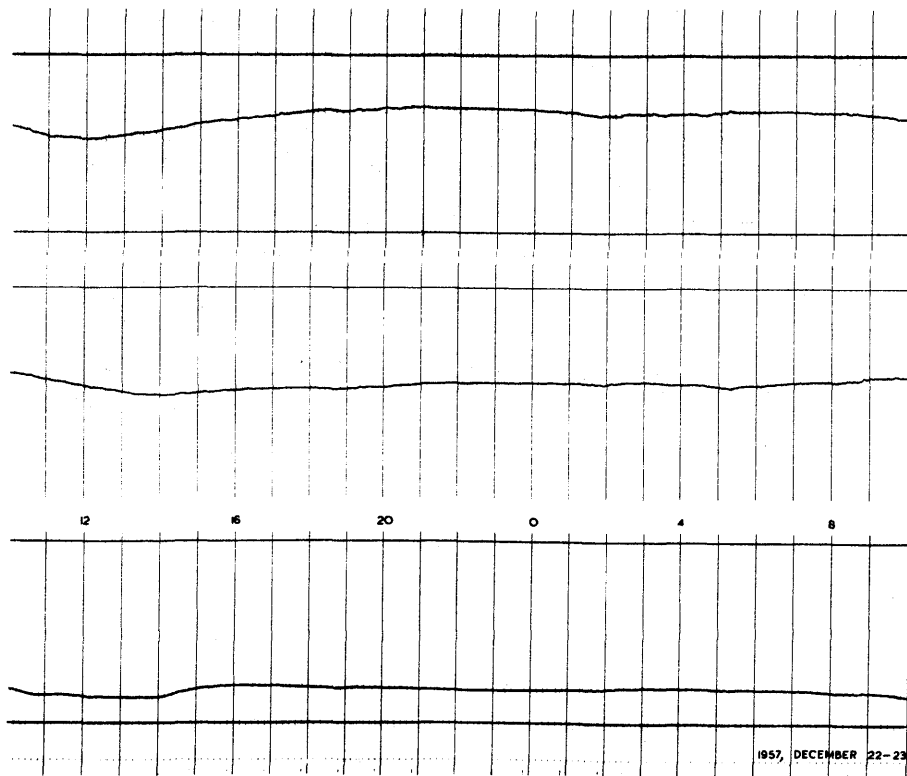


DECEMBER 20-21



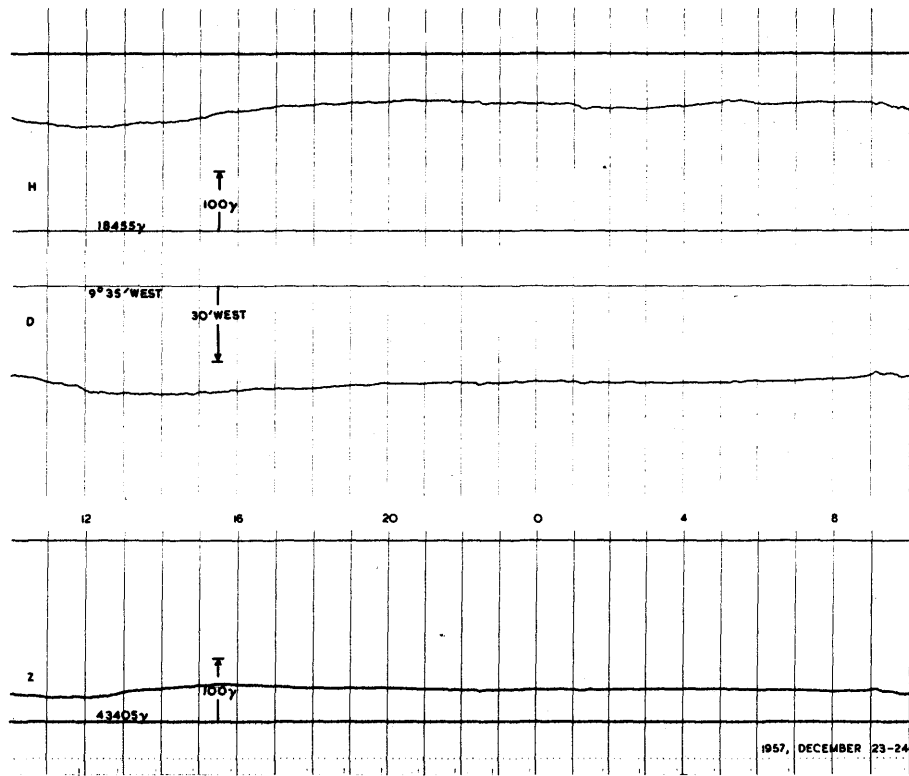
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DECEMBER 21-22

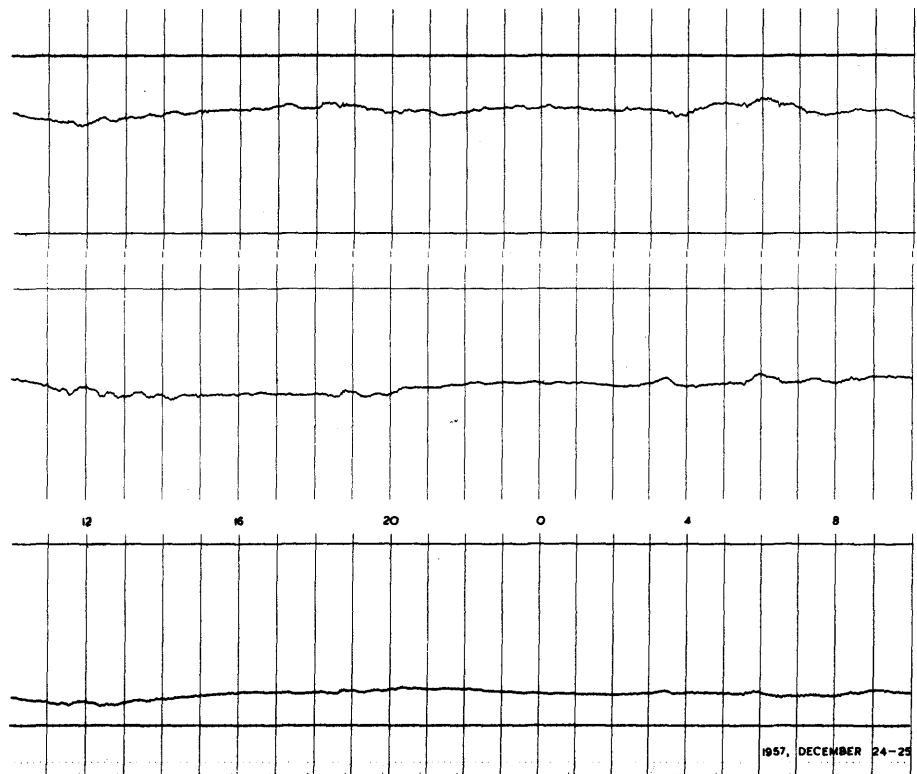


DECEMBER 22-23

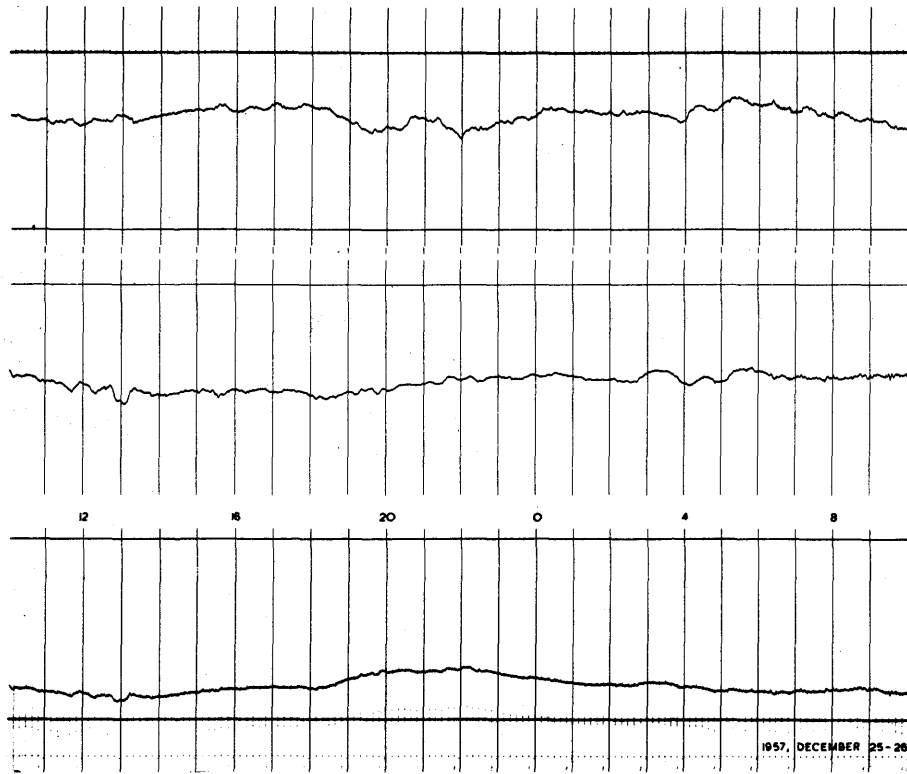
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DECEMBER 23-24

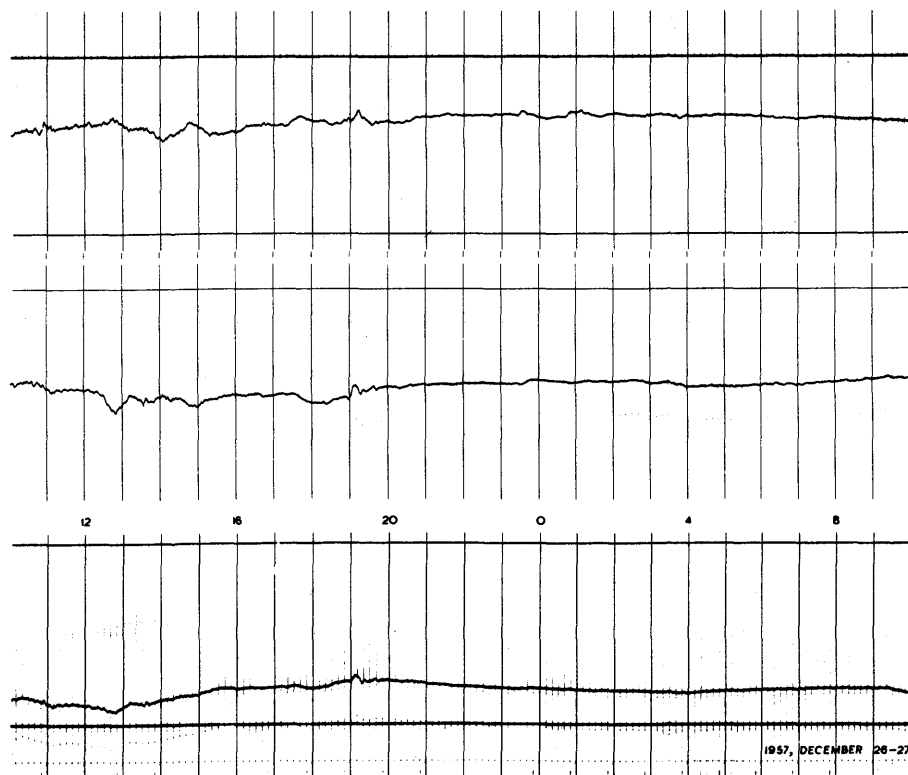


DECEMBER 24-25



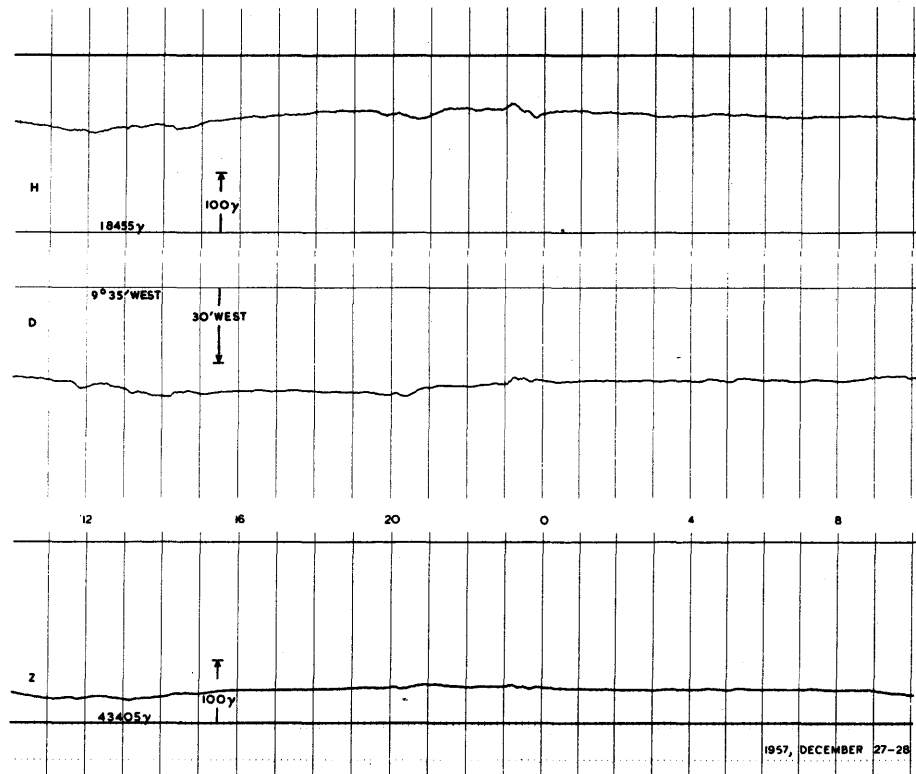
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DECEMBER 25-26

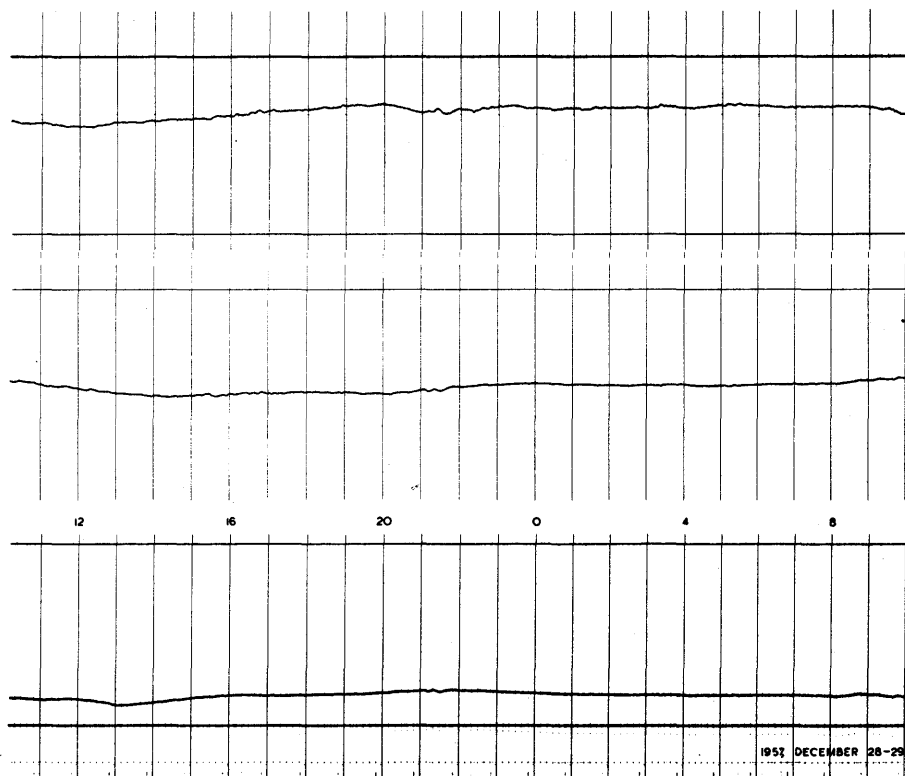


DECEMBER 26-27

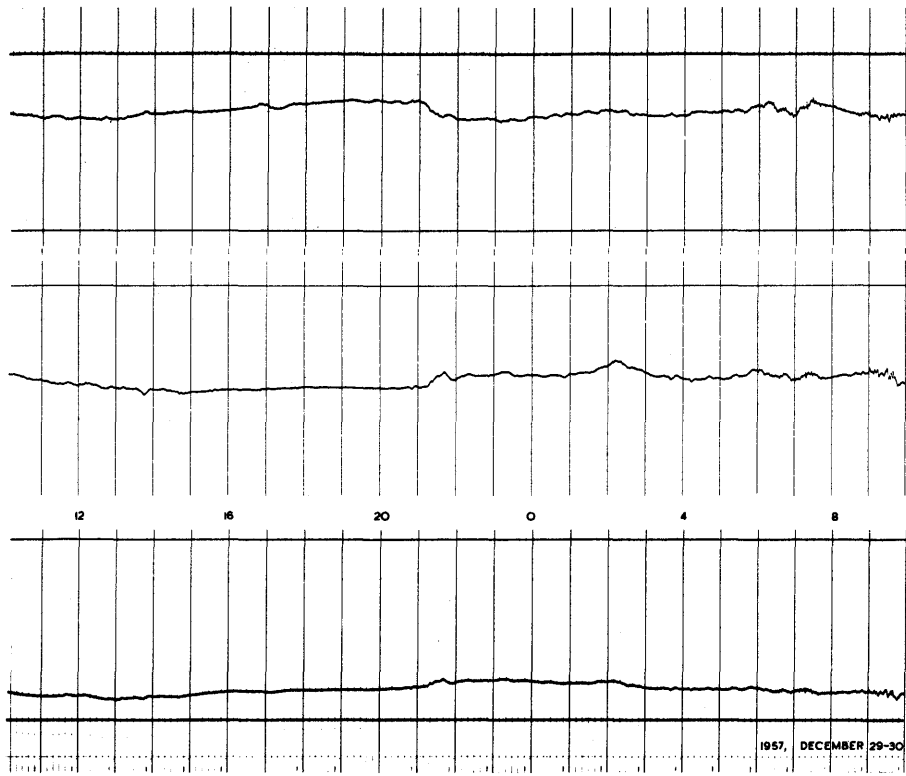
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DECEMBER 27-28

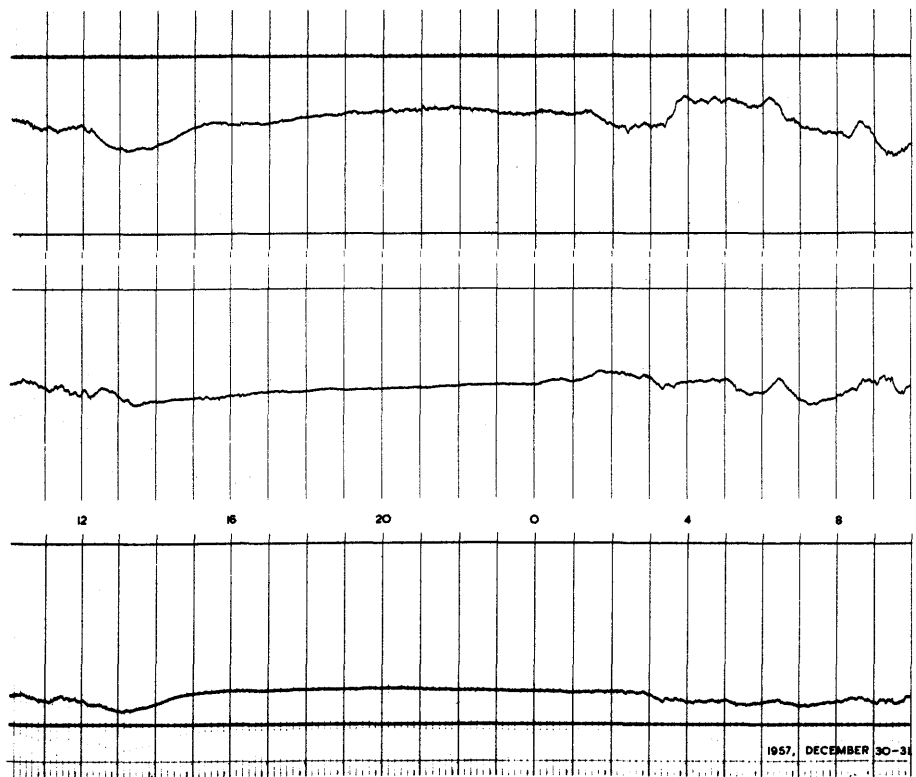


DECEMBER 28-29



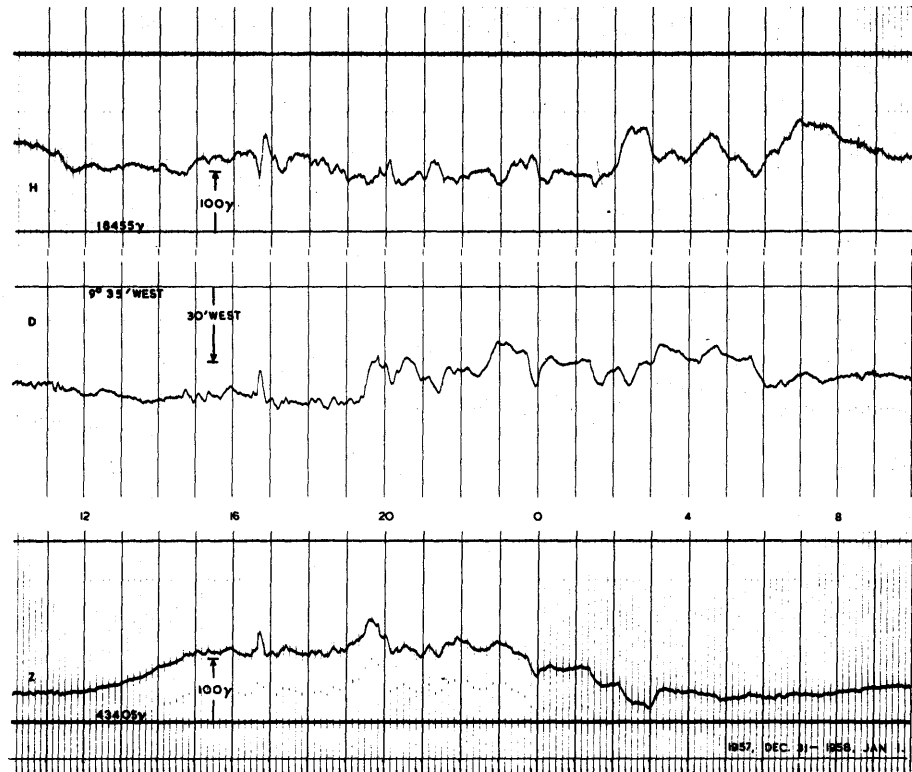
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DECEMBER 29-30



DECEMBER 30-31

1957



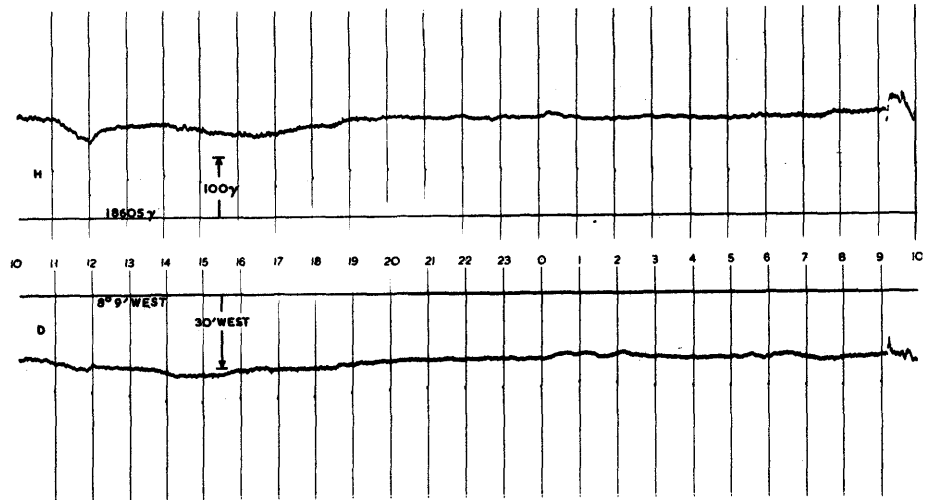
DEC.31 - JAN.1

MAGNETOGRAMS

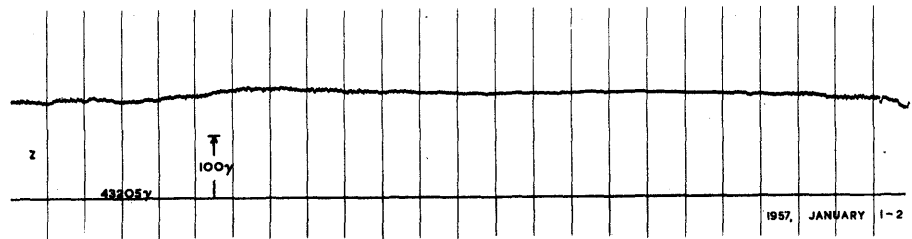
ABINGER

1957

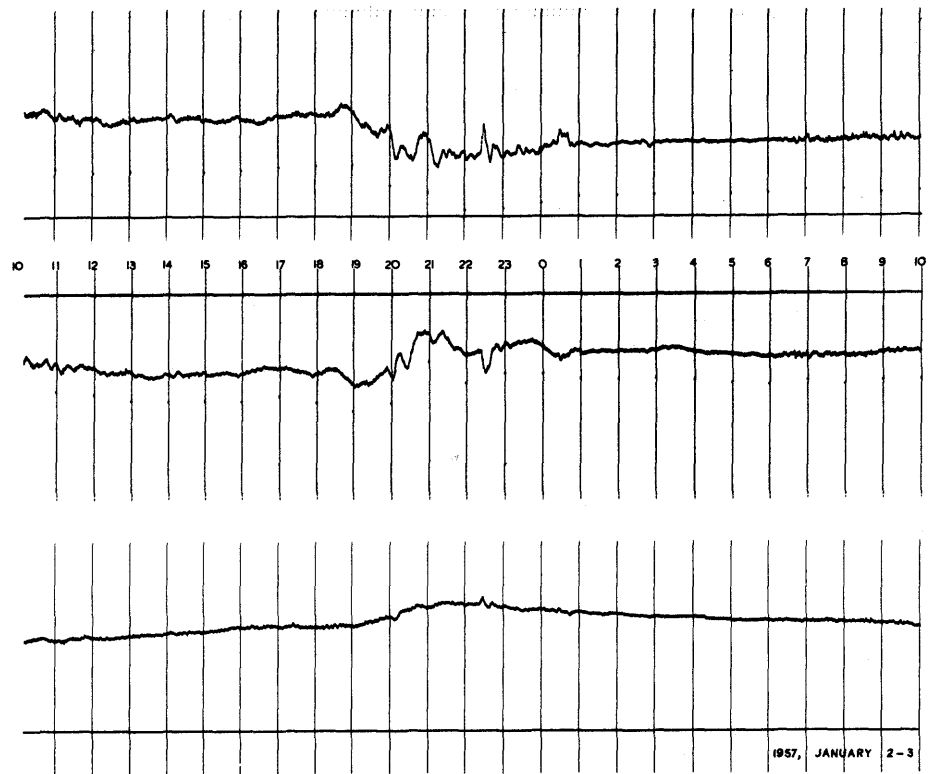
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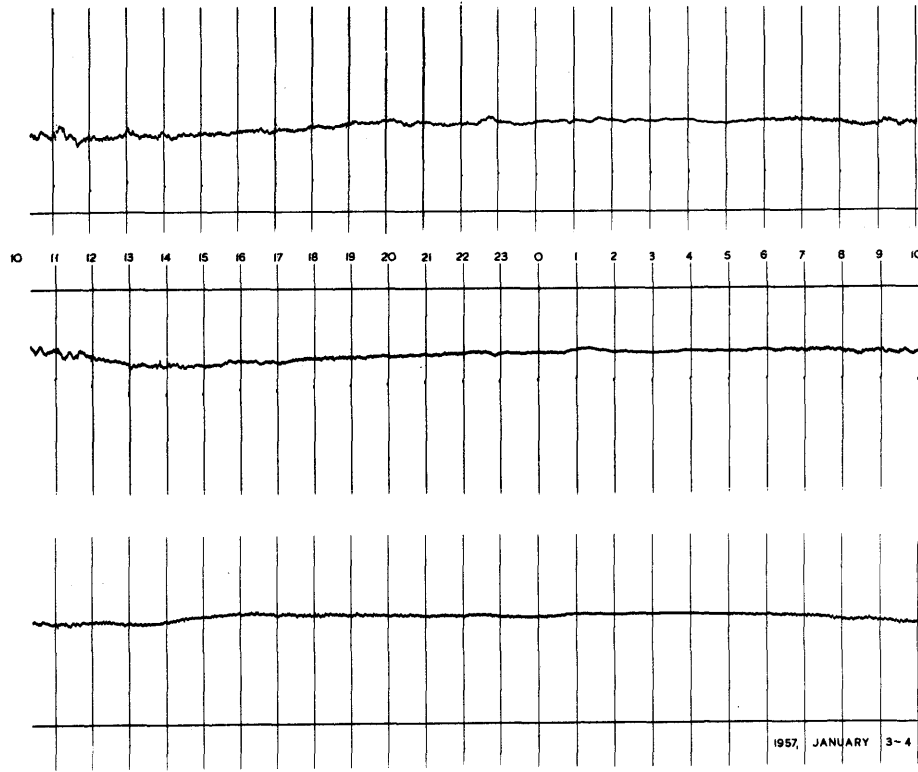


JANUARY 1-2



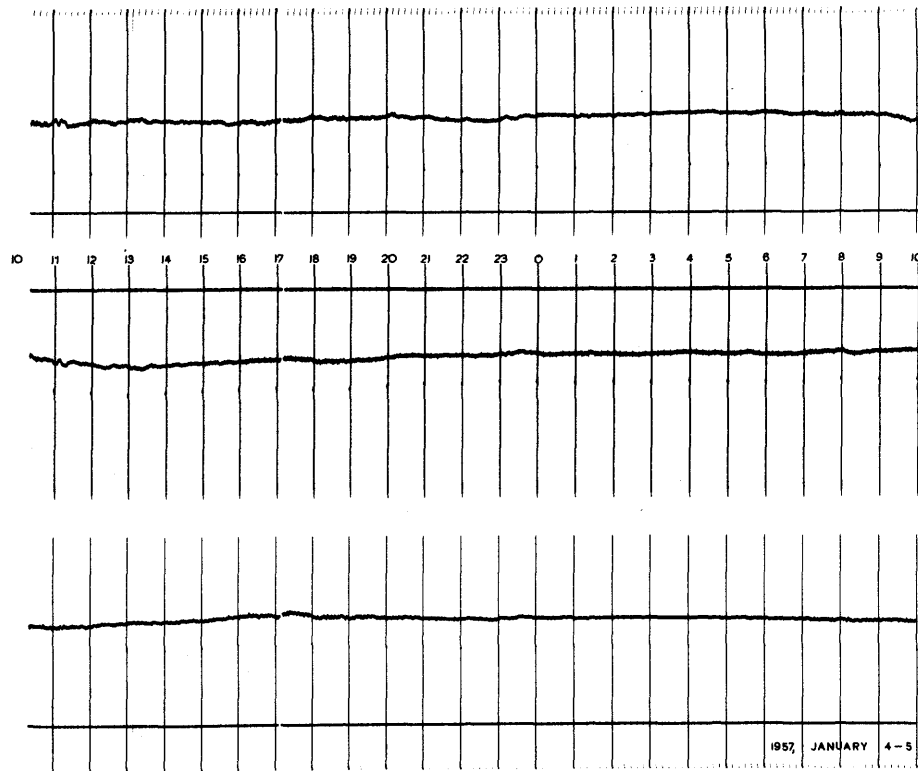
JANUARY 2-3





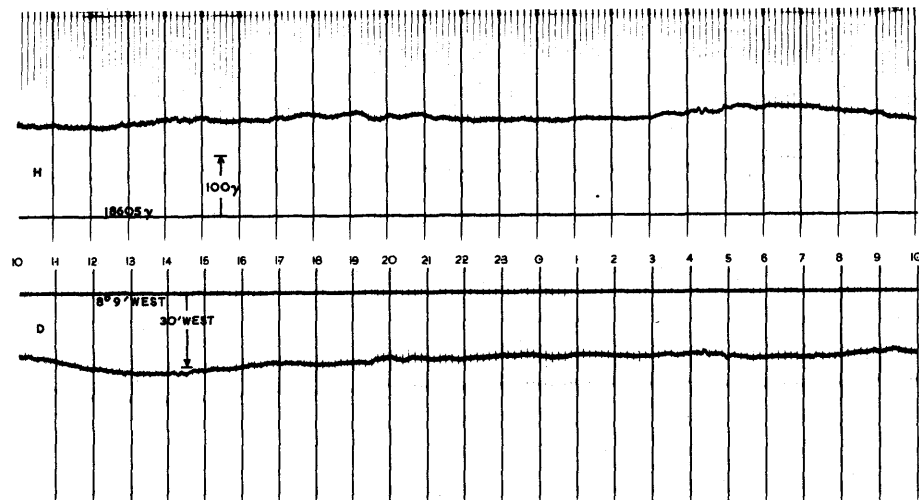
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JANUARY 3-4

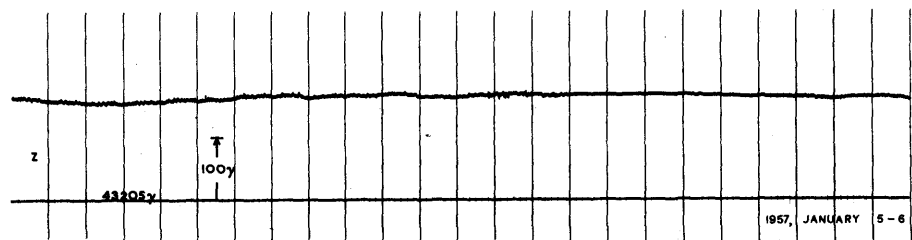


JANUARY 4-5

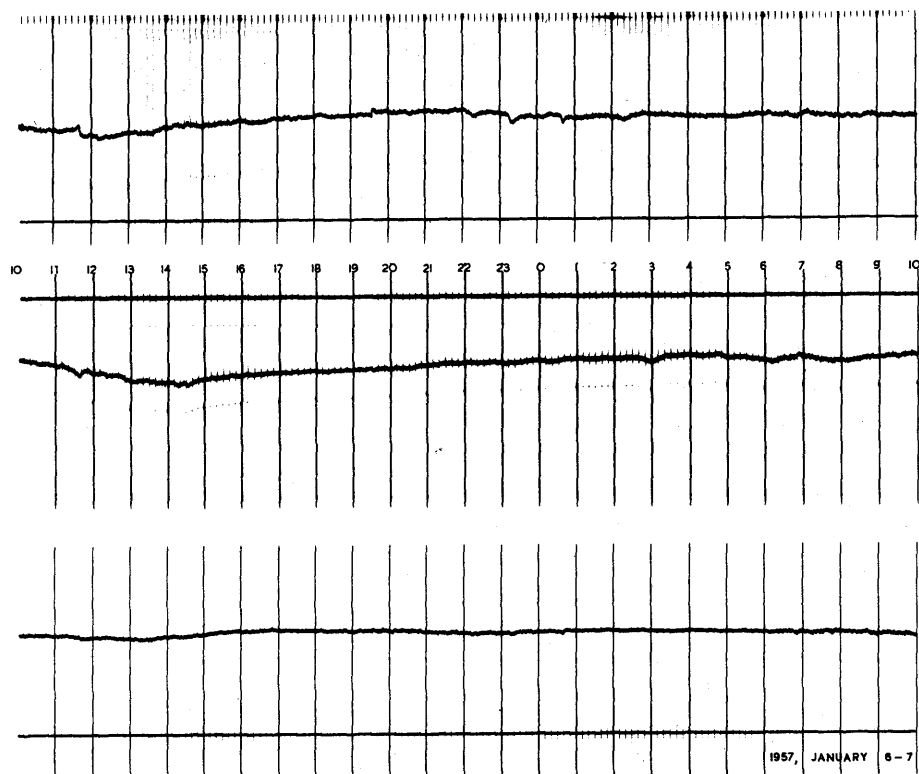
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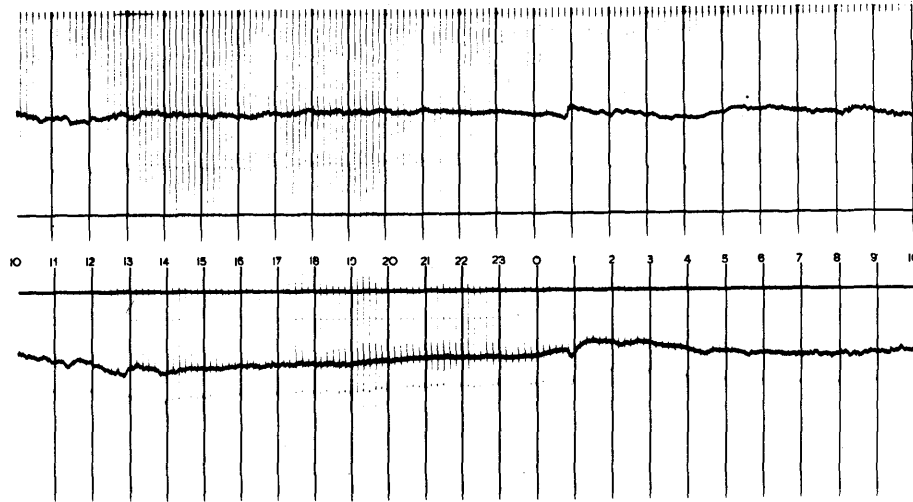


JANUARY 5-6

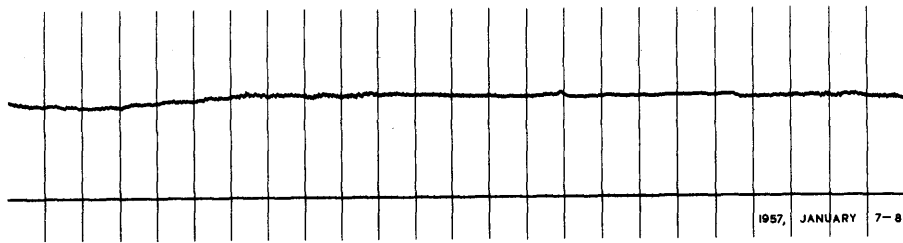


JANUARY 6-7

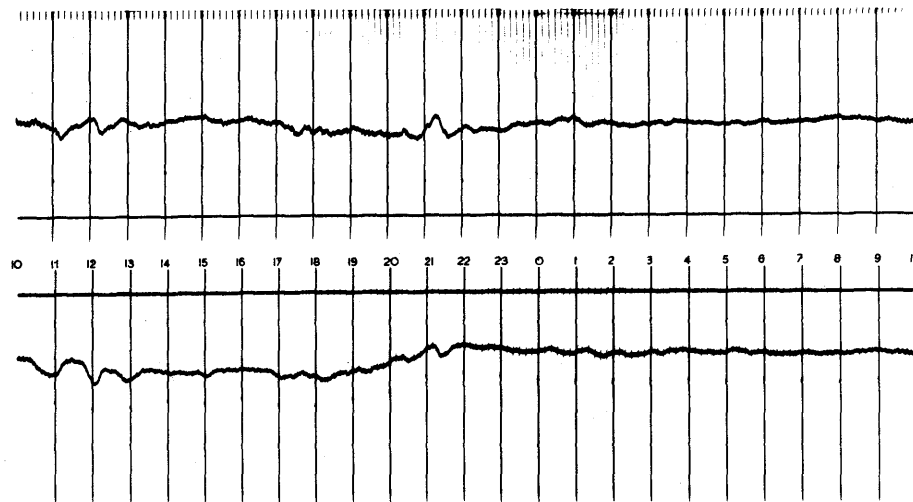




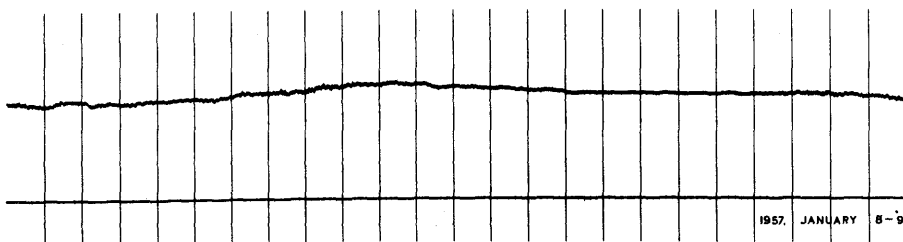
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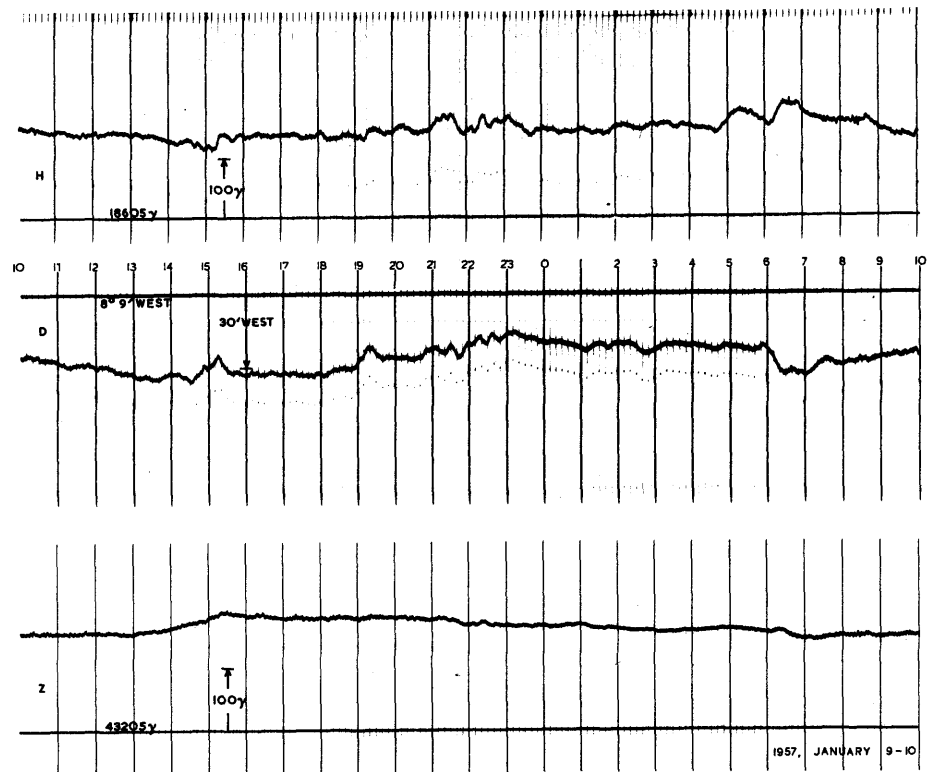
JANUARY 7-8



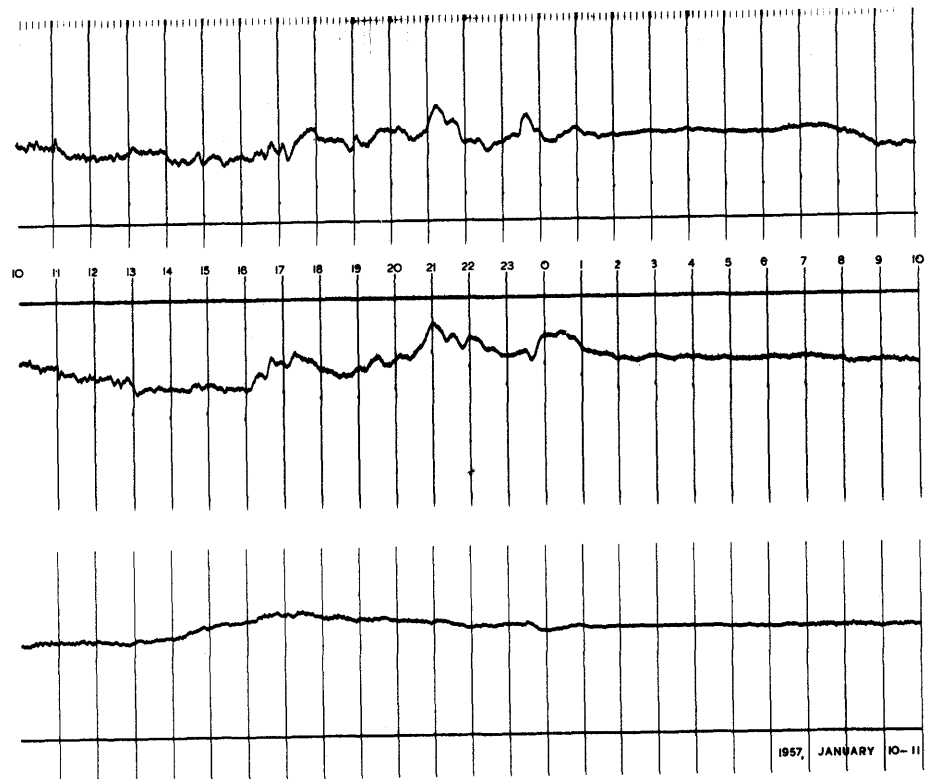
JANUARY 8-9



1957



JANUARY 9-10

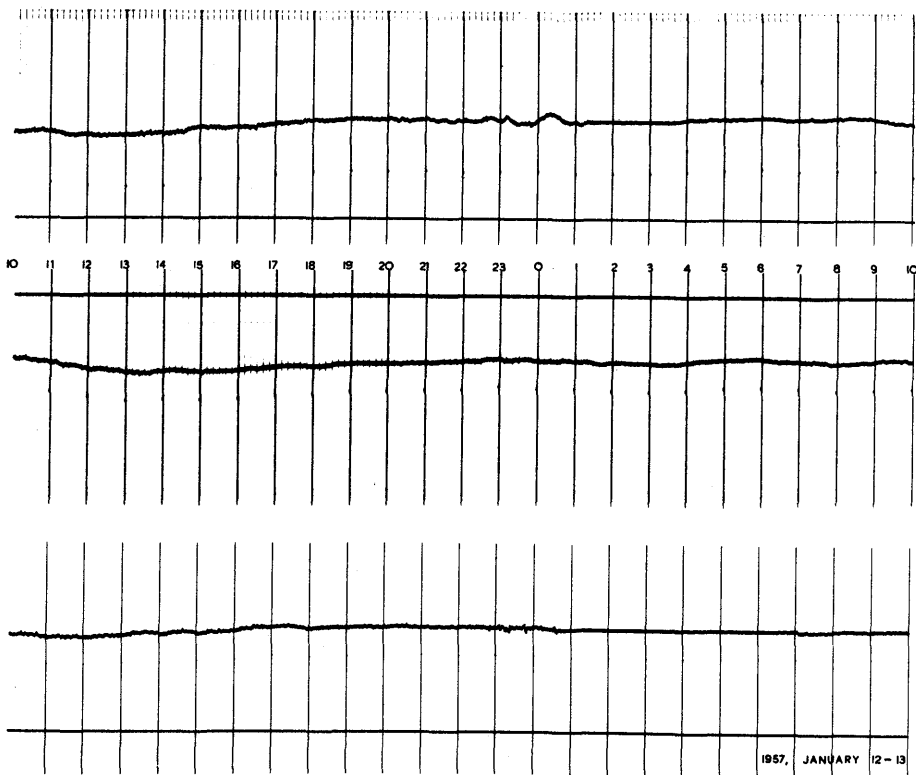


JANUARY 10-11

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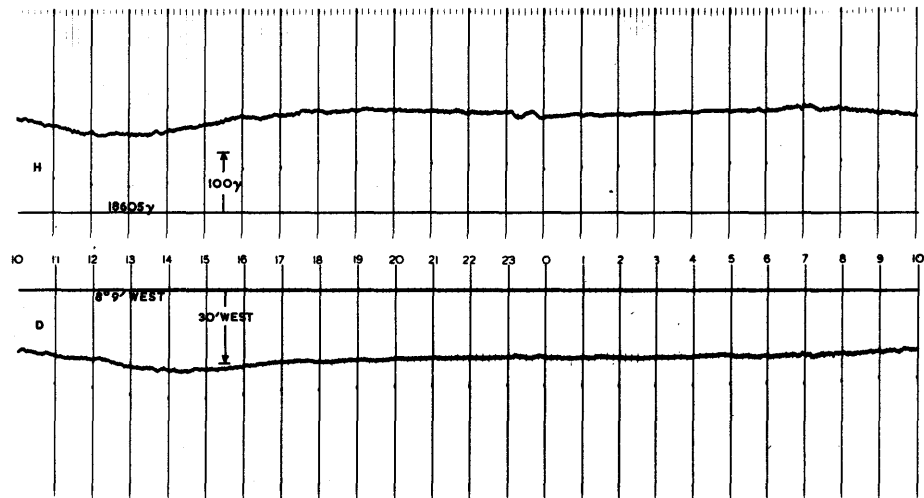


JANUARY 11-12

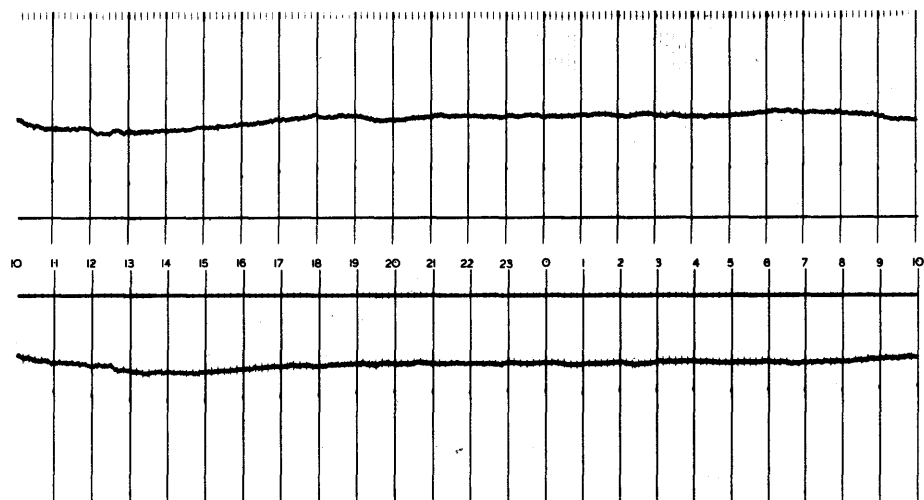


JANUARY 12-13

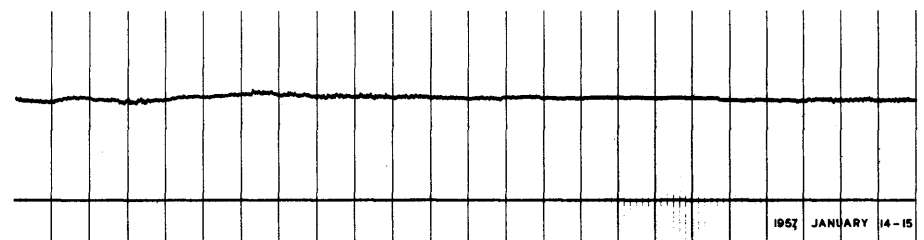
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JANUARY 13-14



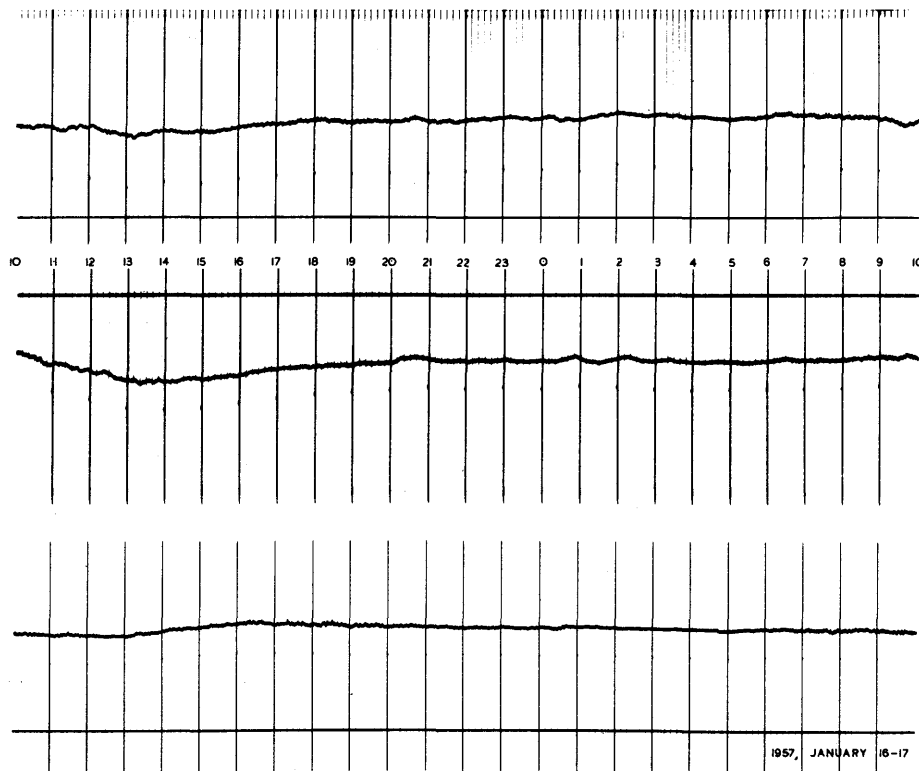
JANUARY 14-15



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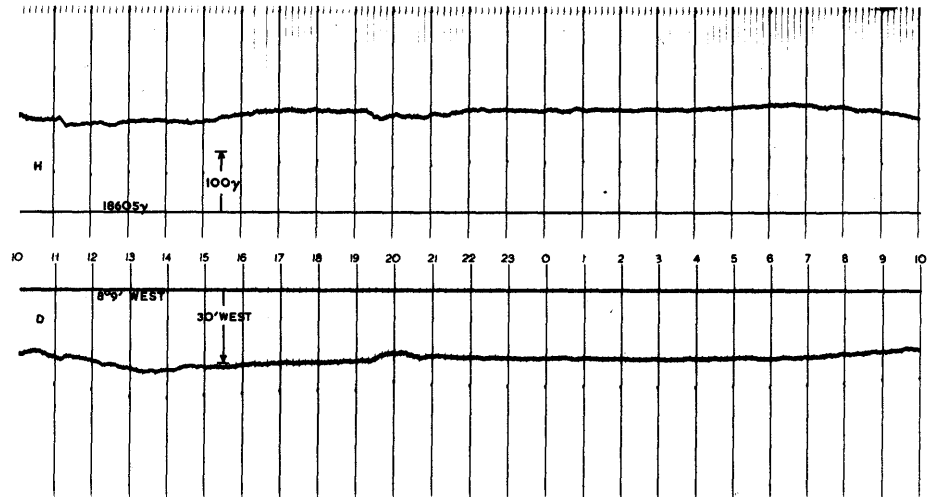


JANUARY 15-16



JANUARY 16-17

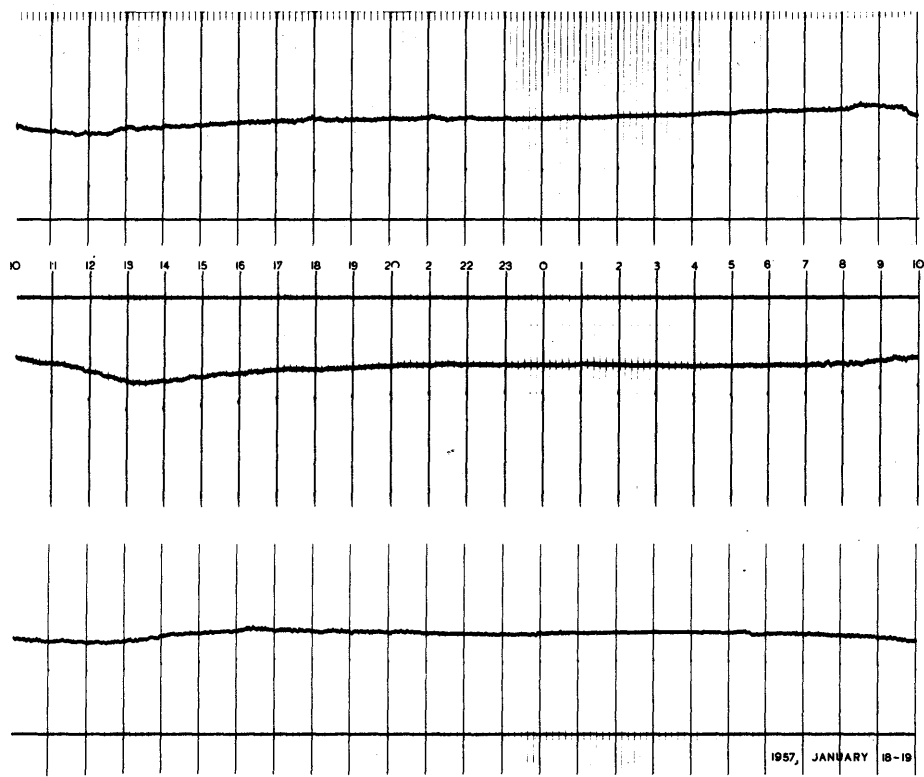
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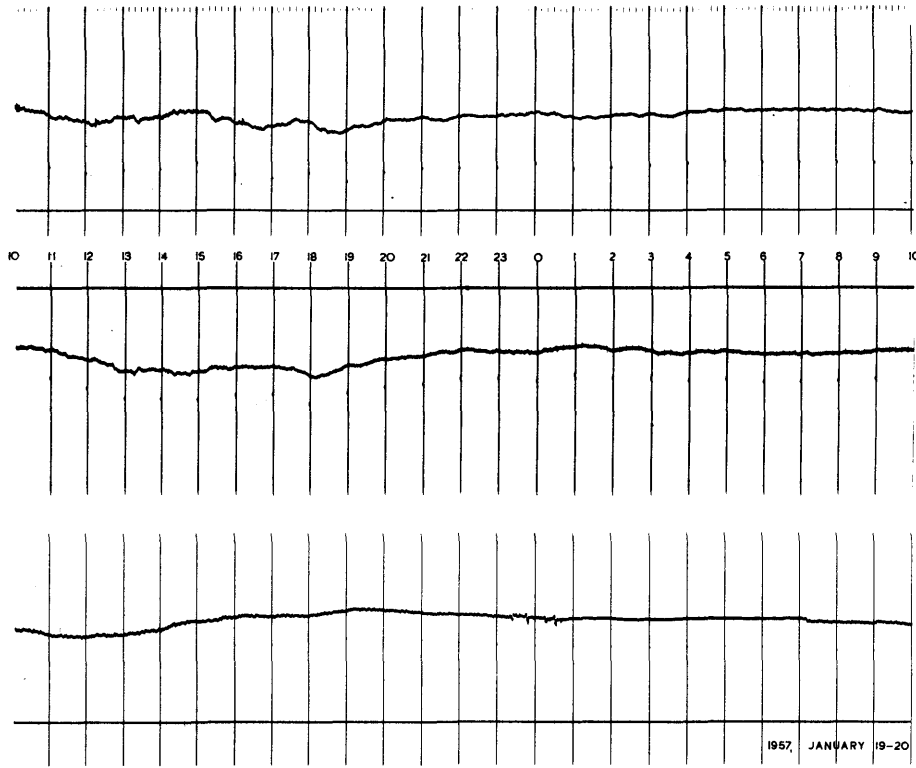


JANUARY 17-18



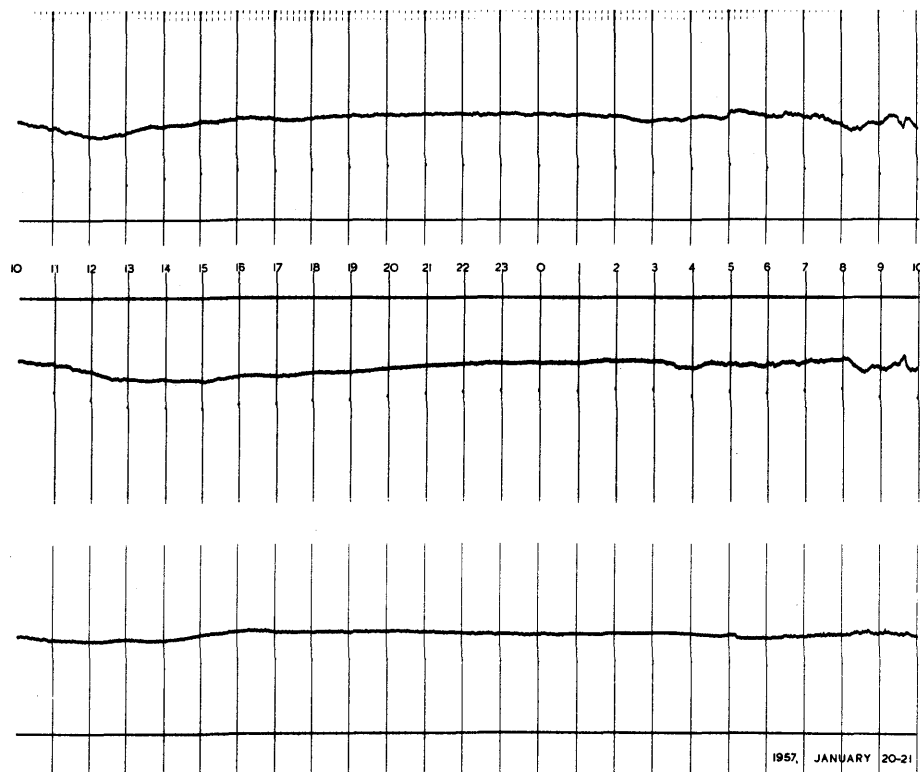
JANUARY 18-19





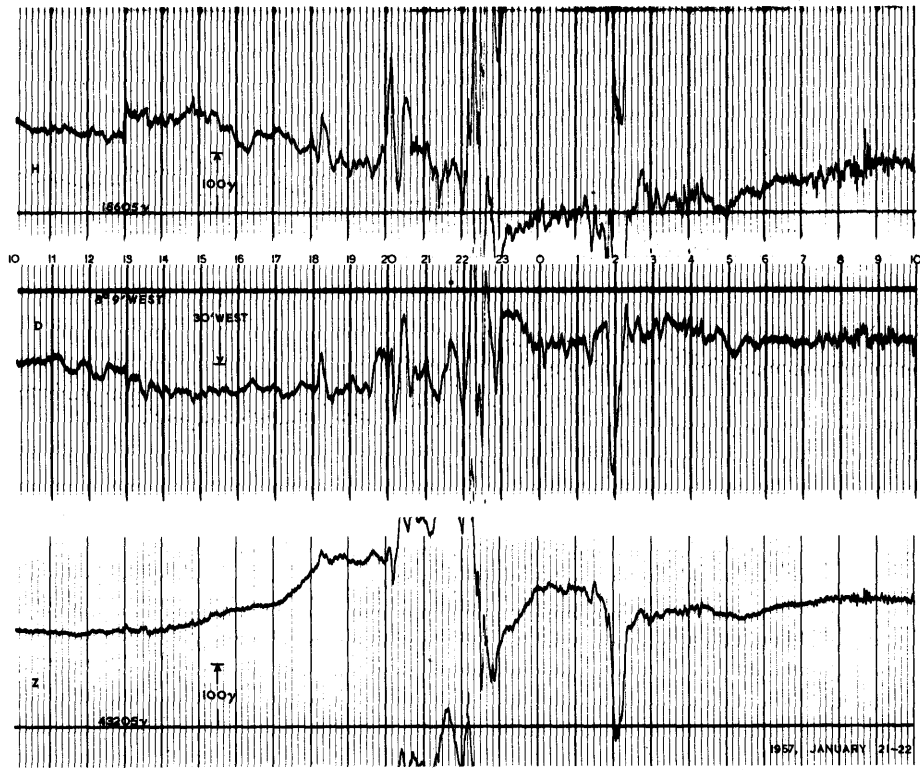
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JANUARY 19-20

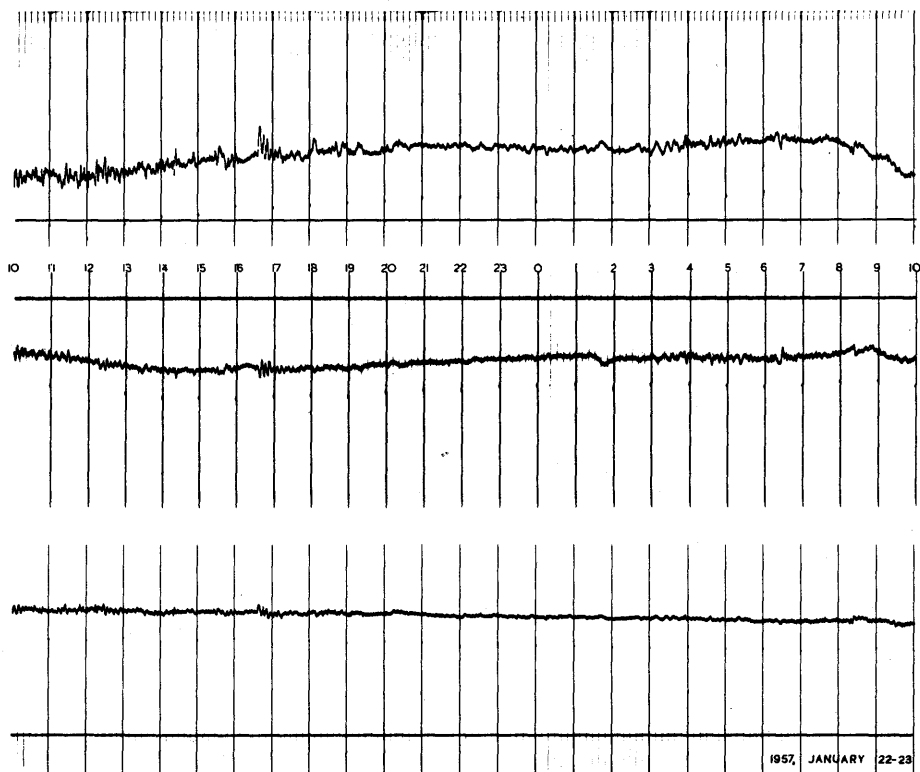


JANUARY 20-21

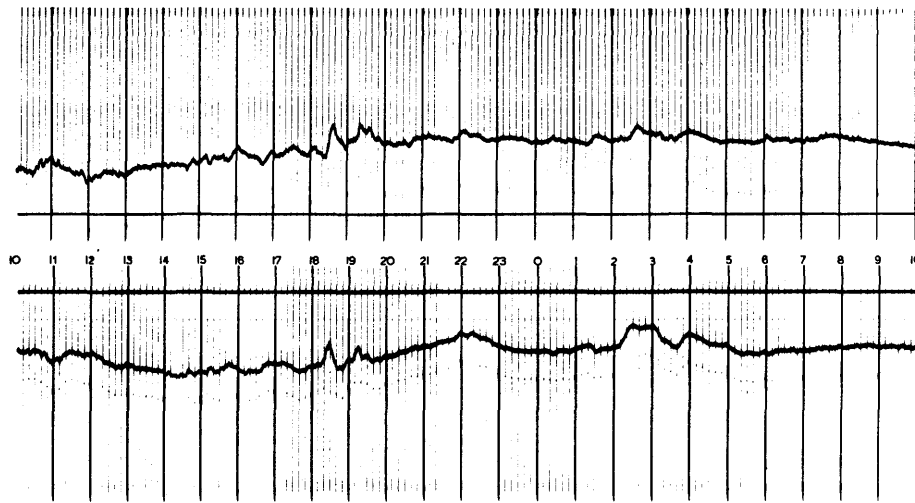
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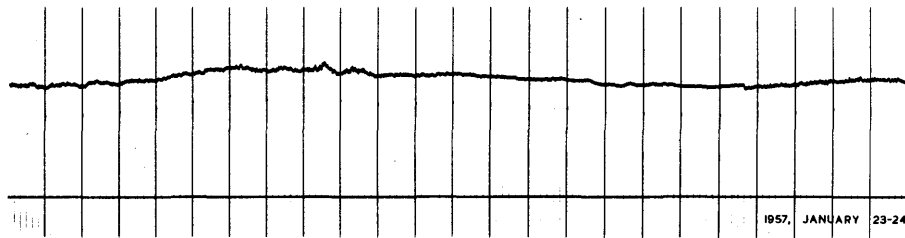
JANUARY 21-22



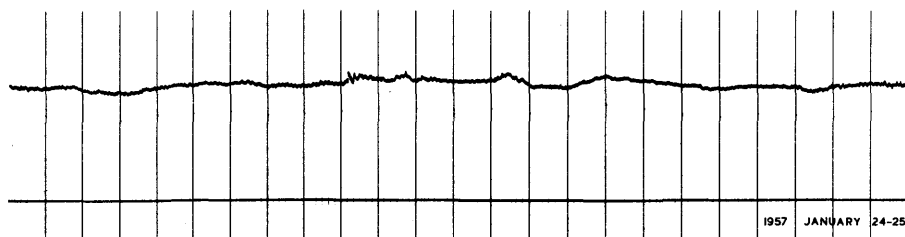
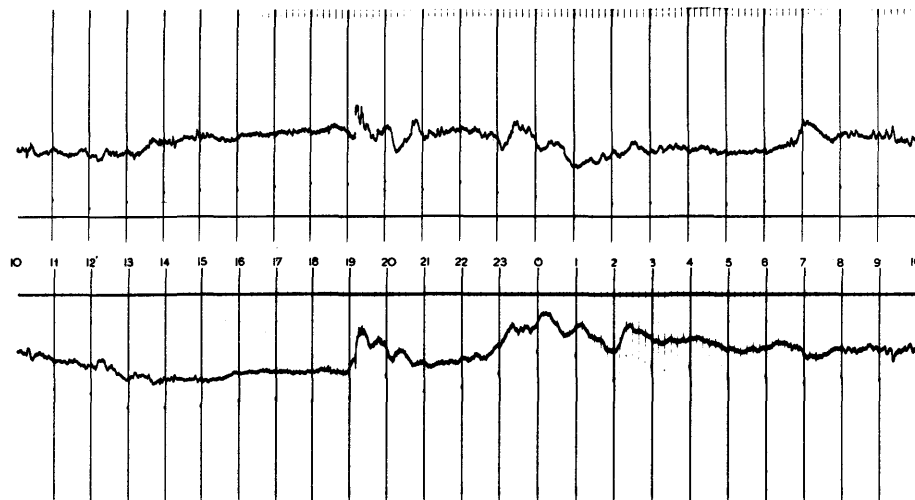
JANUARY 22-23



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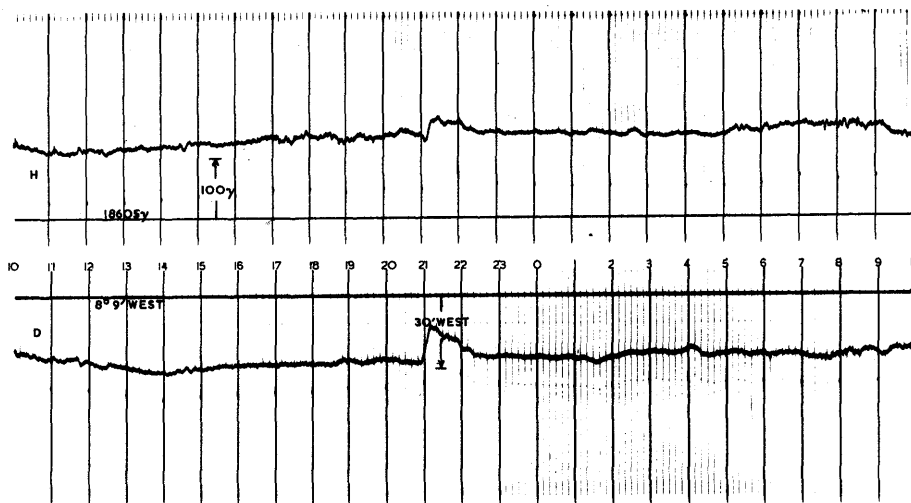


JANUARY 23-24



JANUARY 24-25

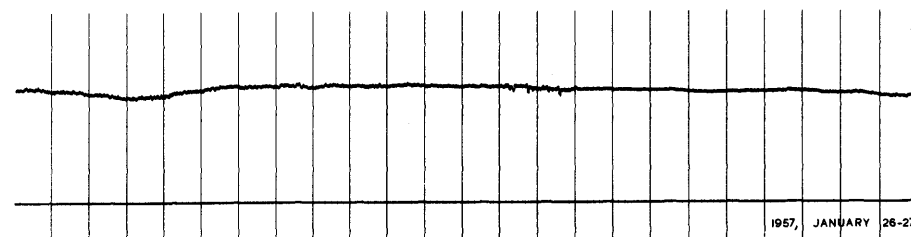
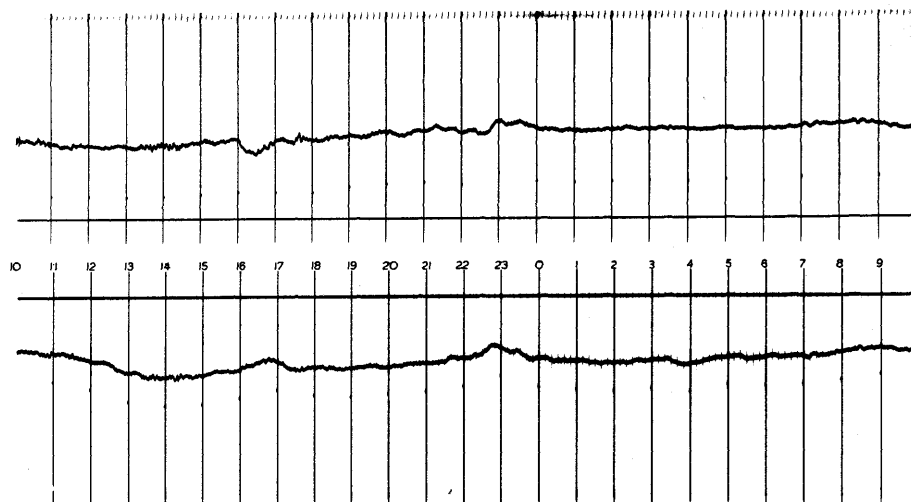
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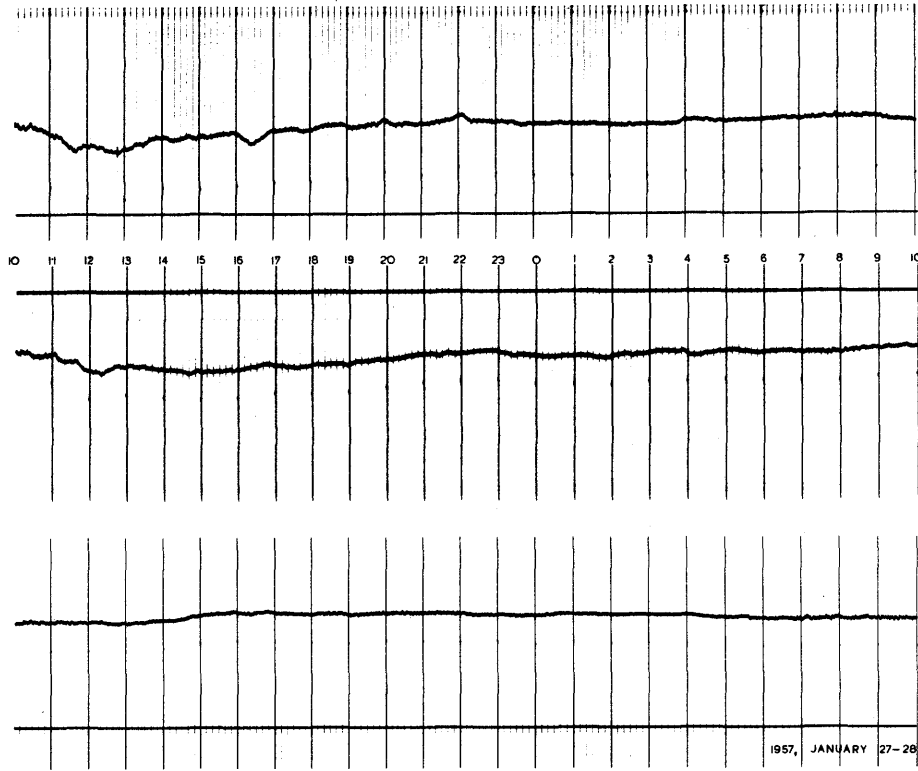


JANUARY 25-26

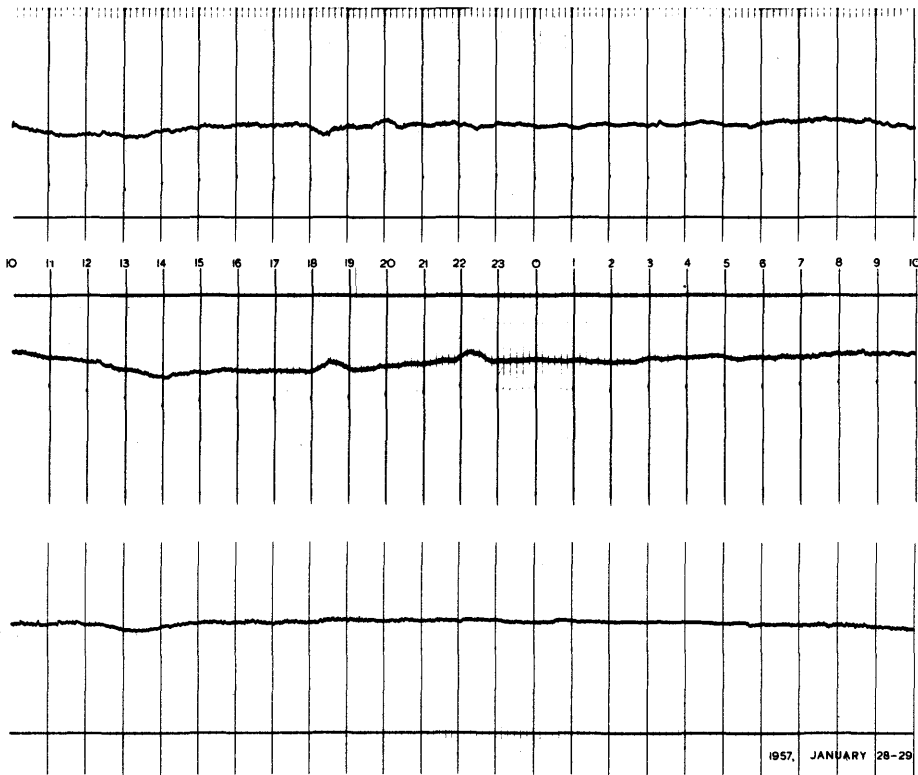


JANUARY 26-27



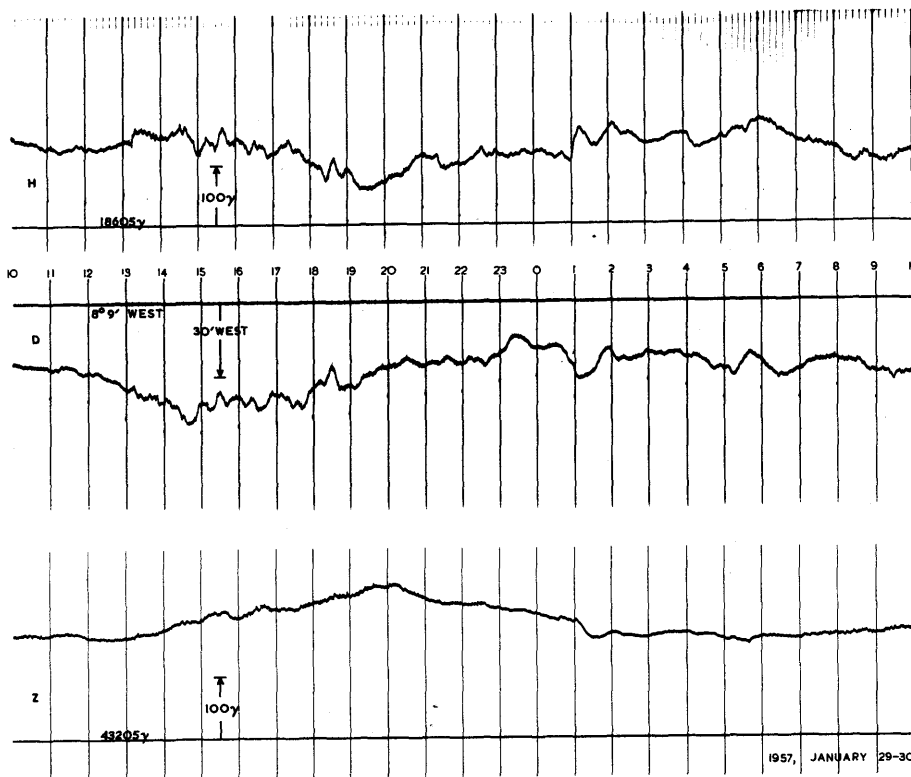


JANUARY 27-28

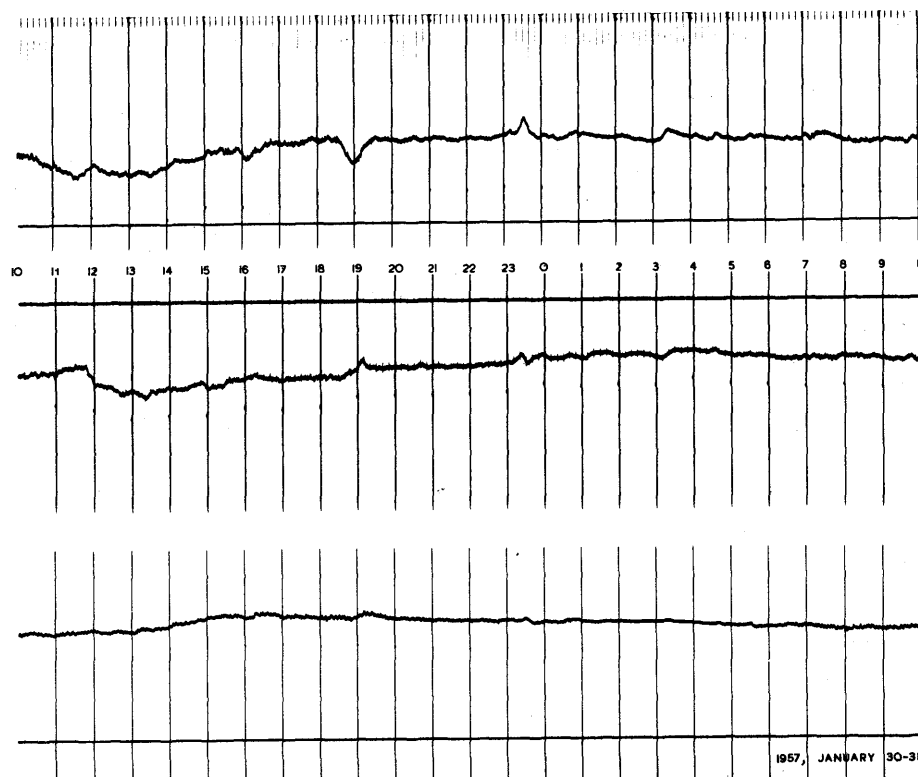


JANUARY 28-29

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JANUARY 29-30



JANUARY 30-31



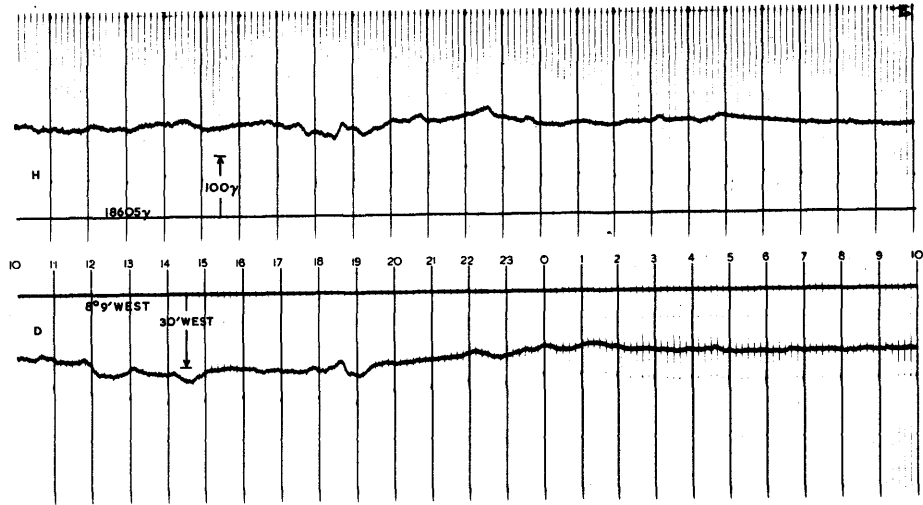
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JAN.31 - FEB. 1

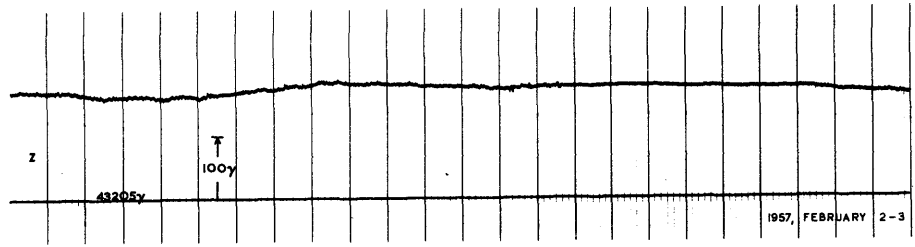


FEBRUARY 1-2

1957



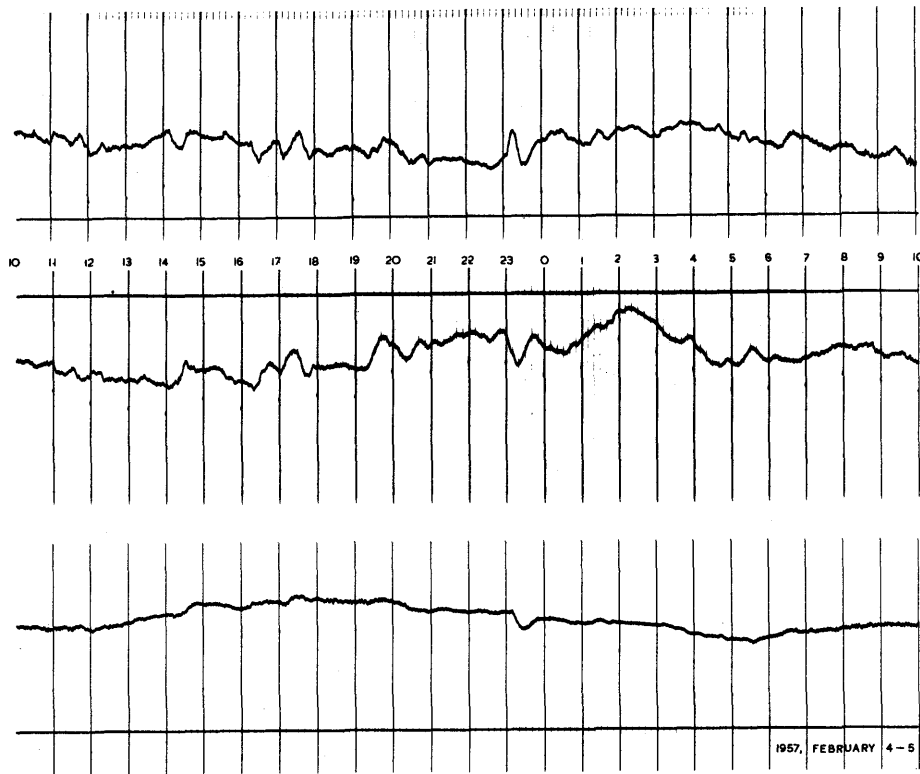
FEBRUARY 2-3



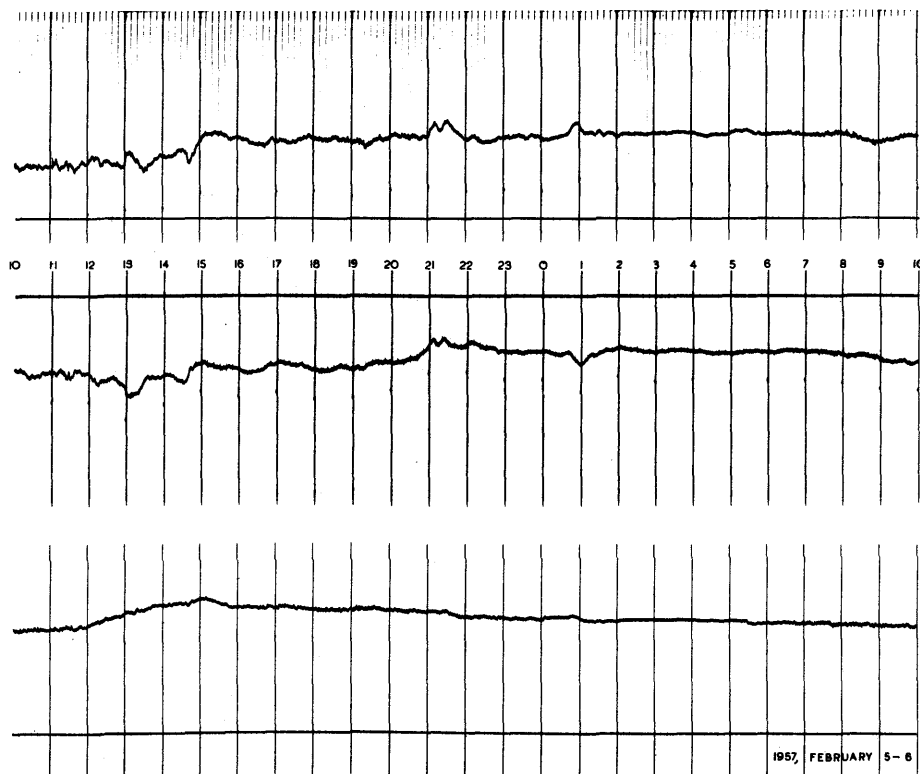
FEBRUARY 3-4



1957

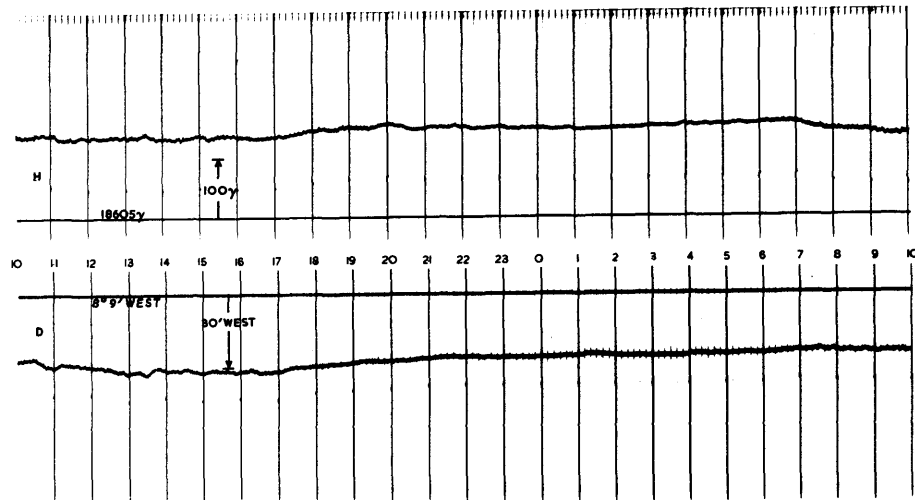


FEBRUARY 4-5

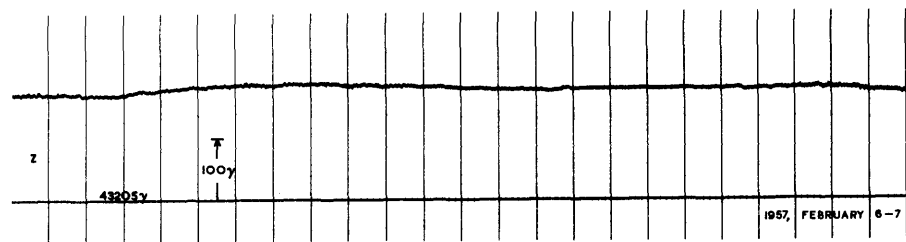


FEBRUARY 5-6

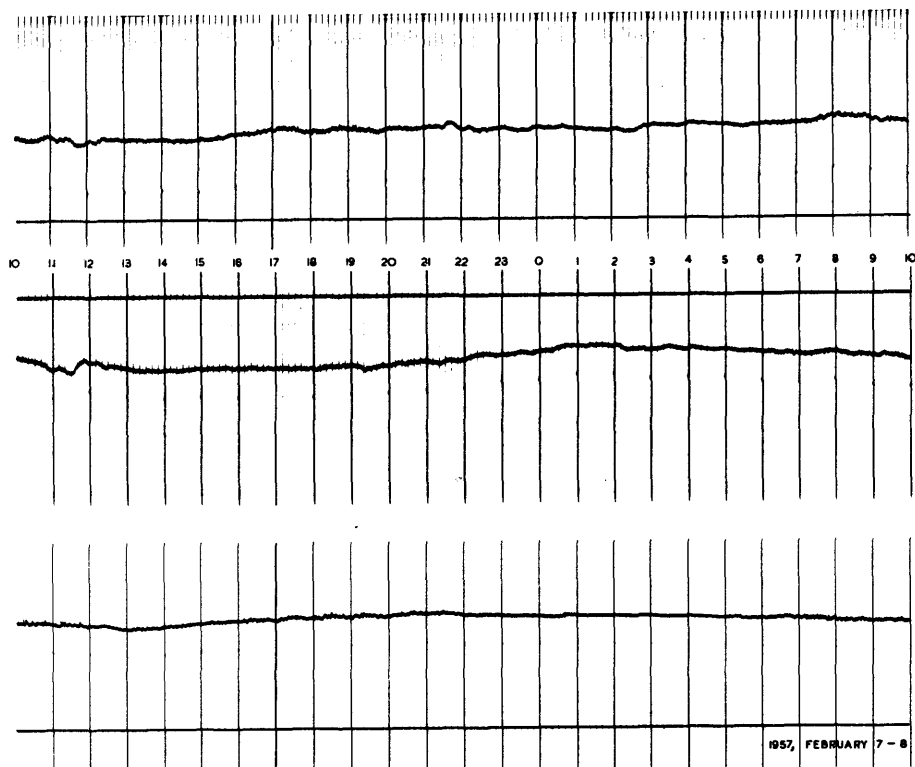
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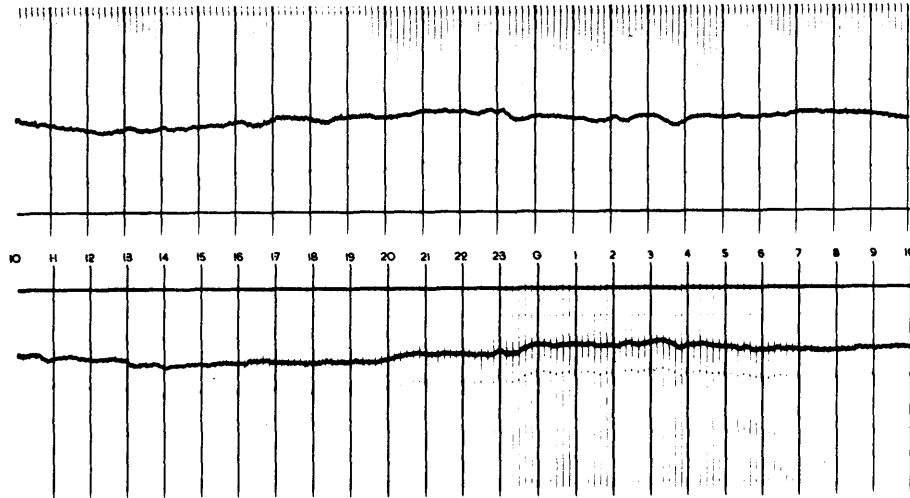


FEBRUARY 6-7

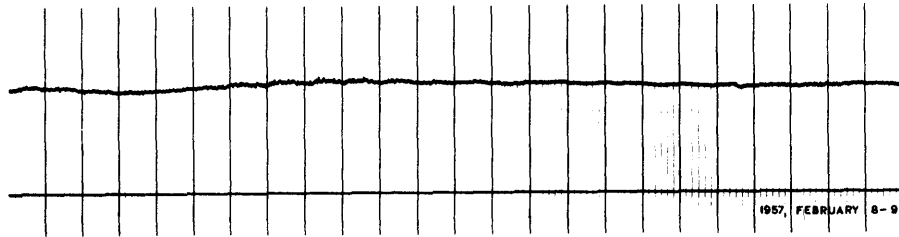


FEBRUARY 7-8

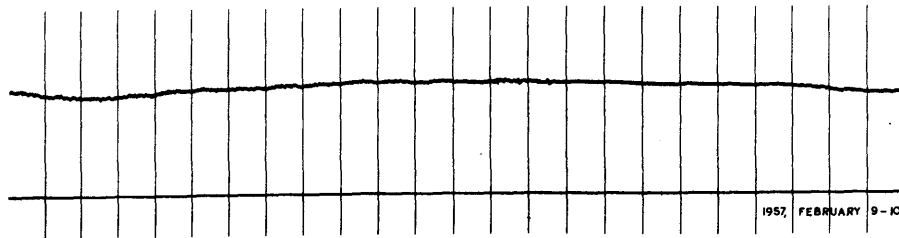
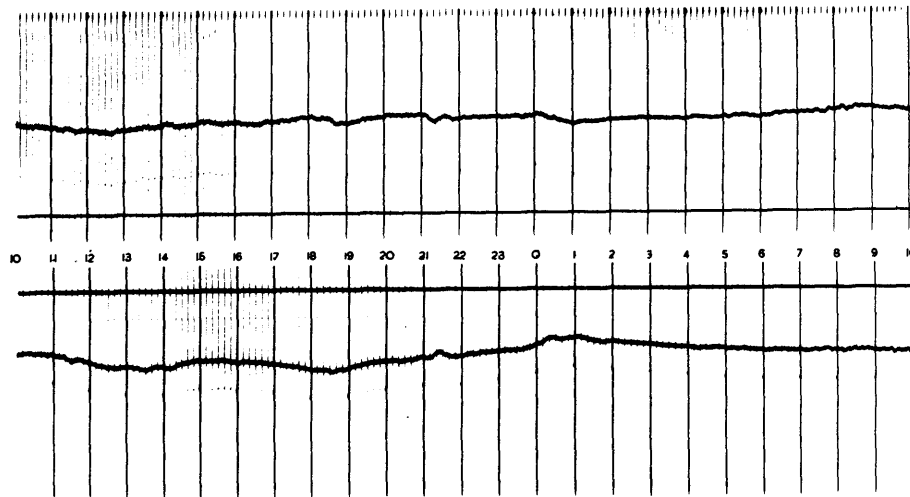




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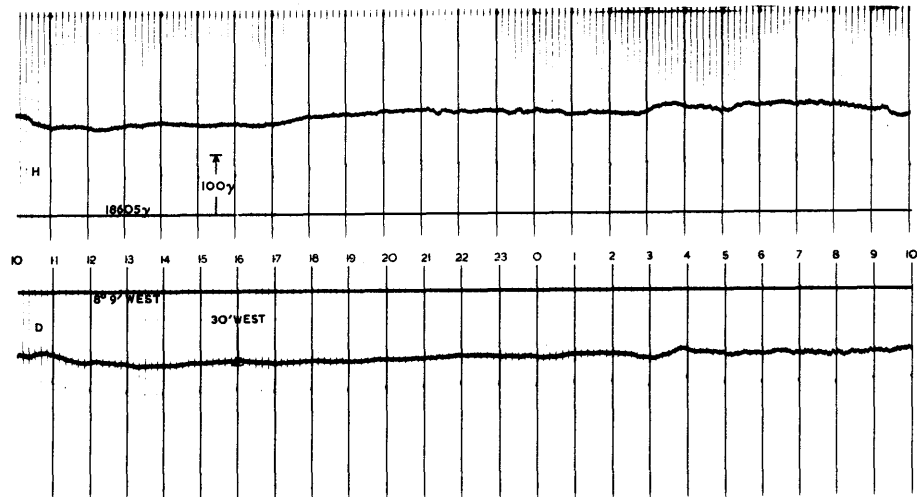


FEBRUARY 8-9

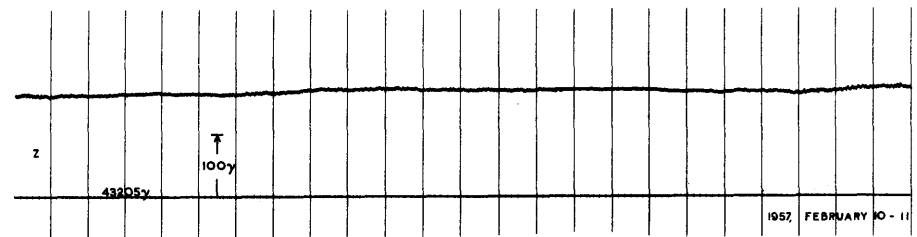


FEBRUARY 9-10

1957



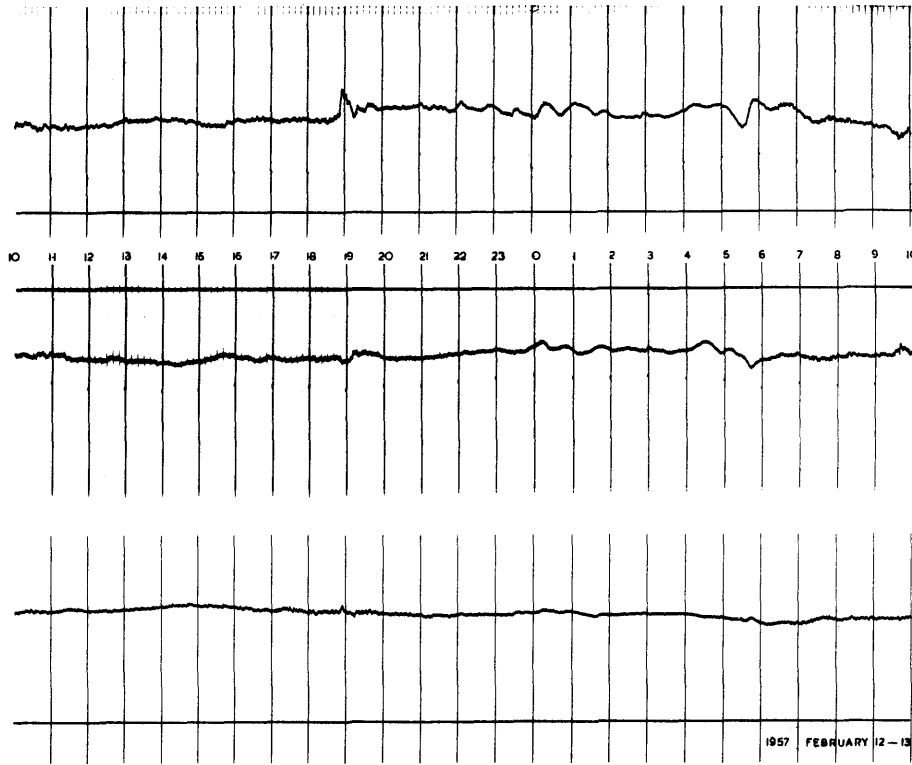
FEBRUARY 10-11



FEBRUARY 11-12



1957

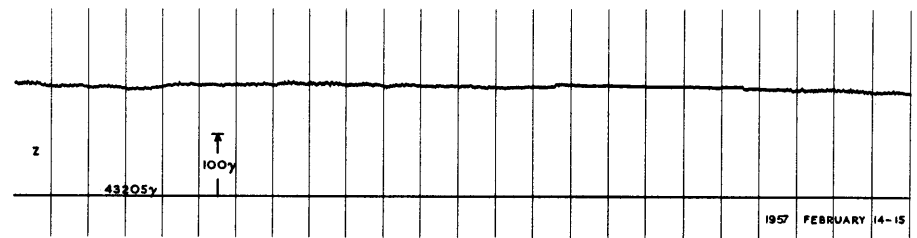
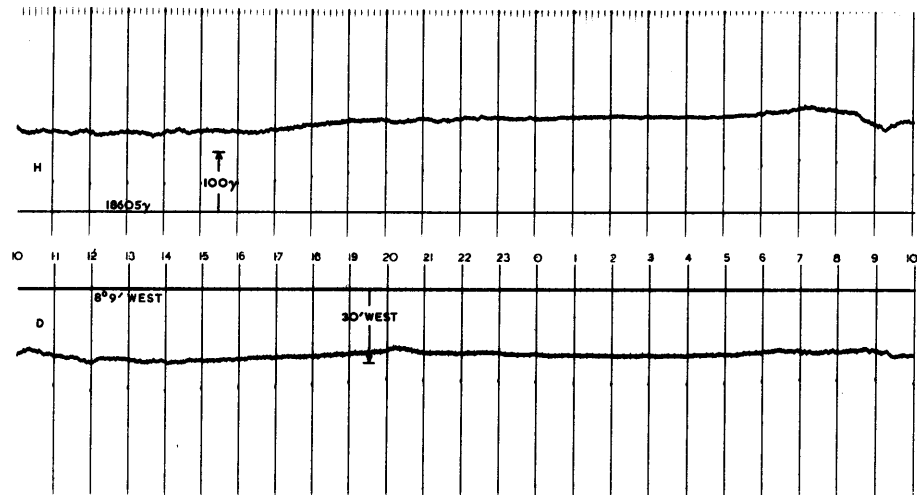


FEBRUARY 12-13

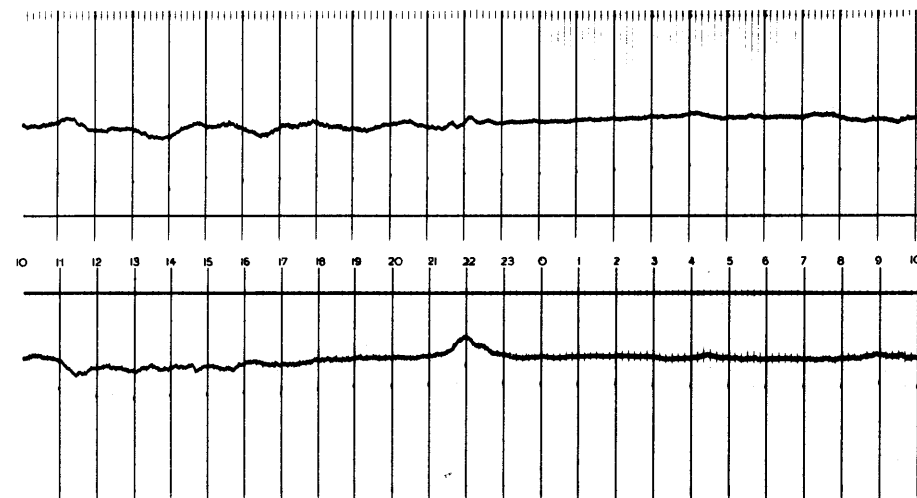


FEBRUARY 13-14

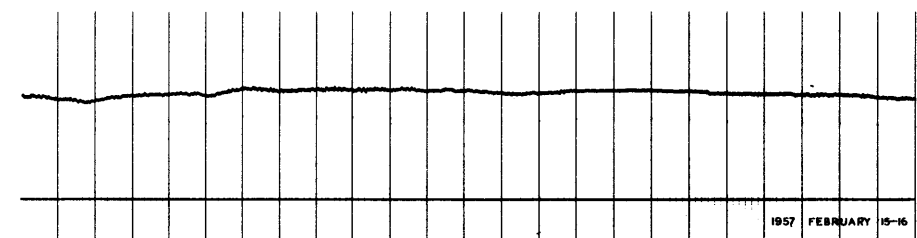
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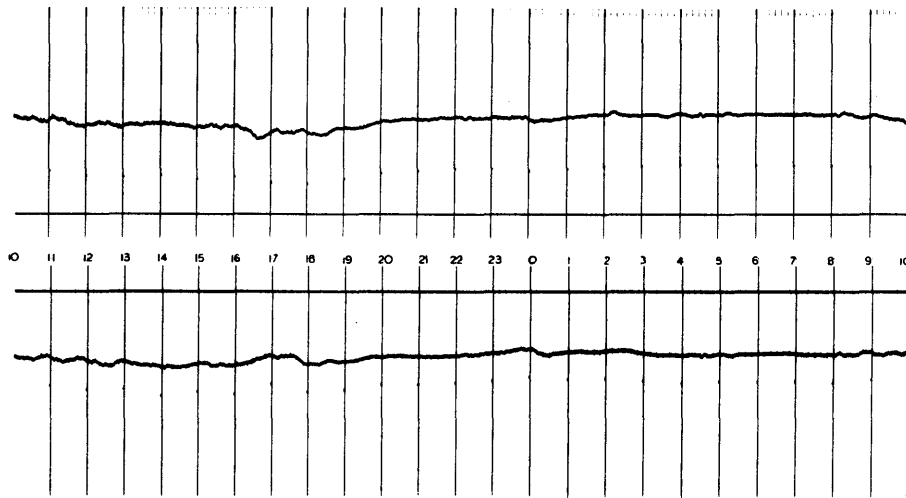


FEBRUARY 14-15

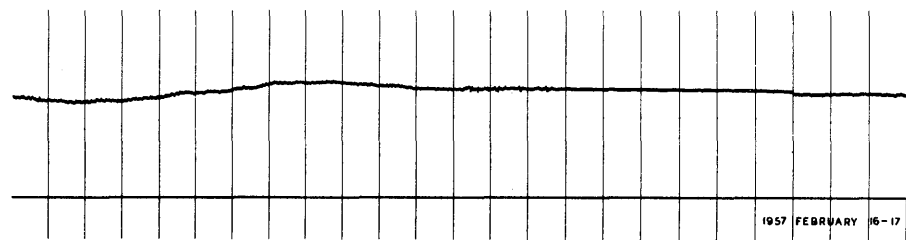


FEBRUARY 15-16

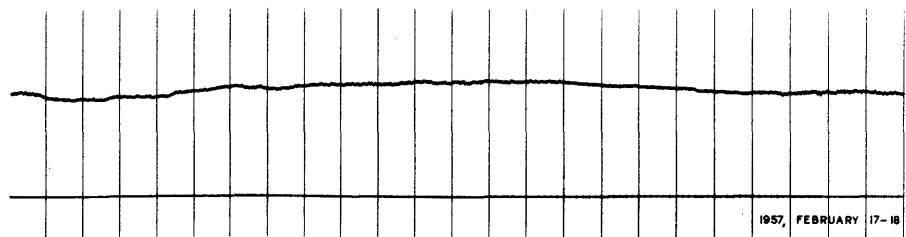
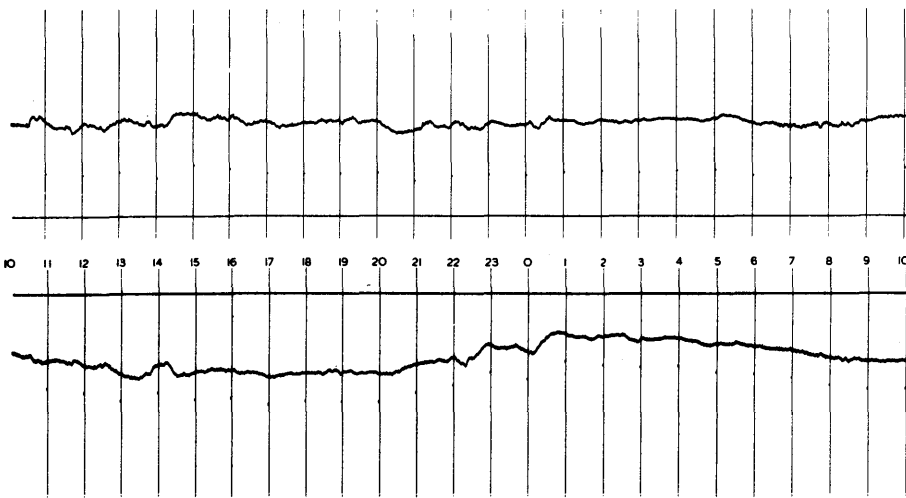




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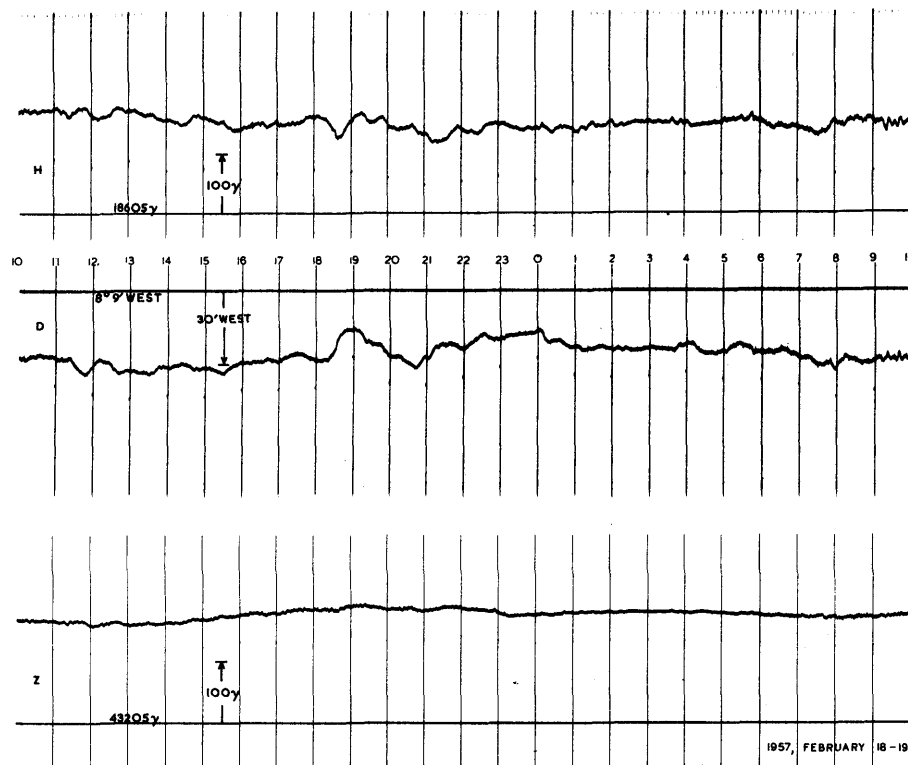


FEBRUARY 16-17



FEBRUARY 17-18

1957

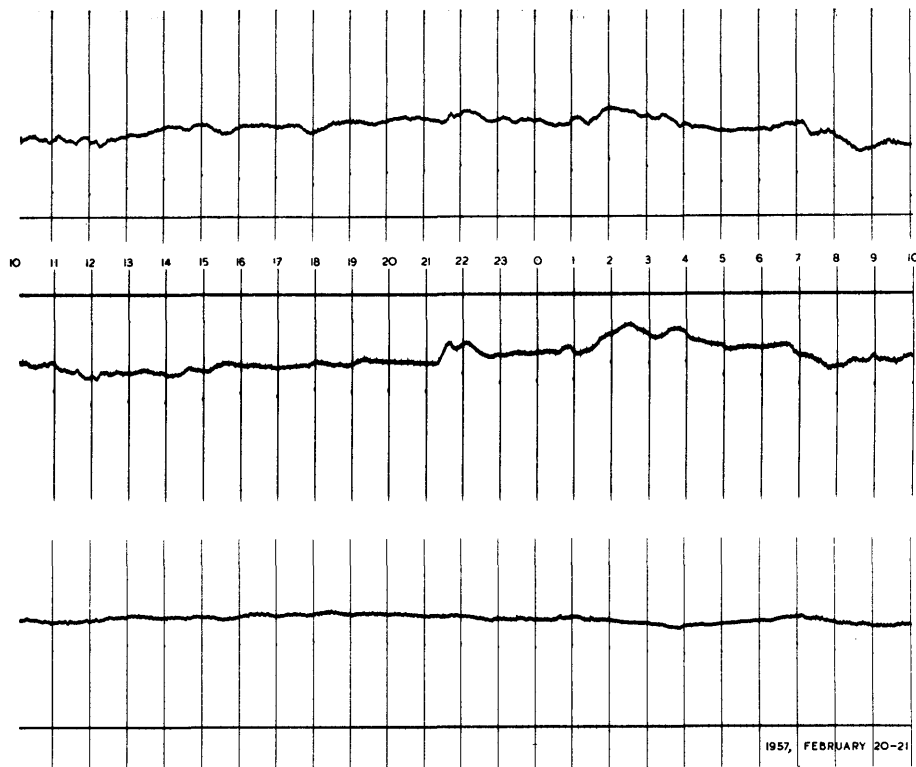


FEBRUARY 18-19

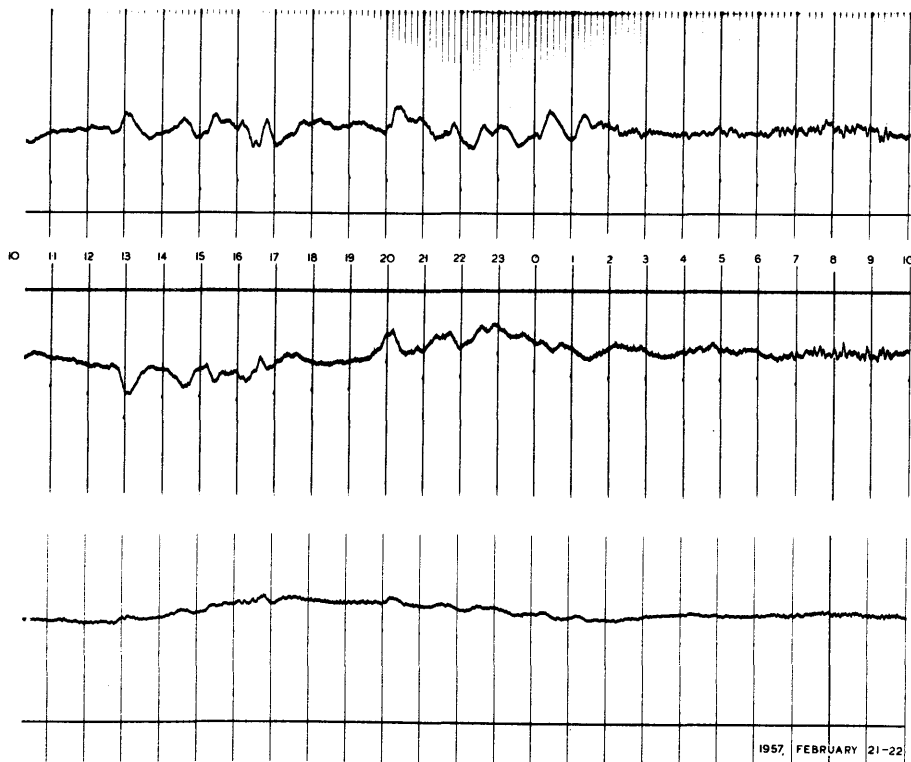


FEBRUARY 19-20

1957

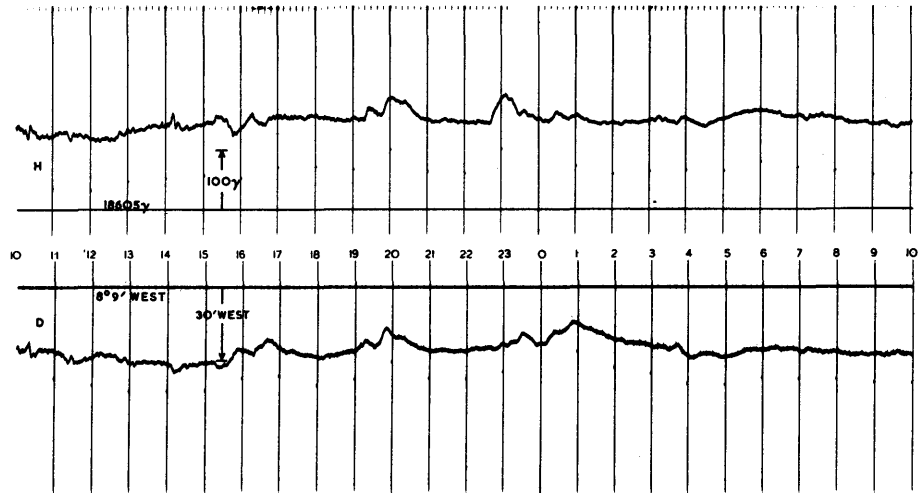


FEBRUARY 20-21

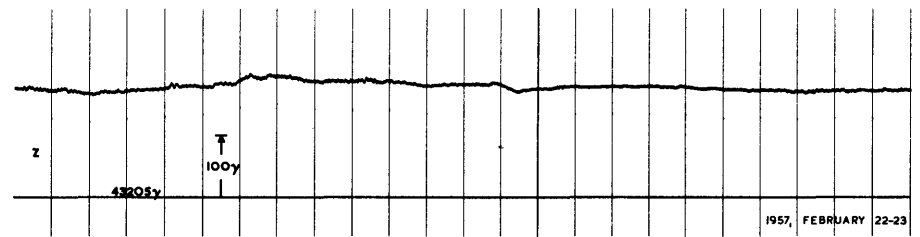


FEBRUARY 21-22

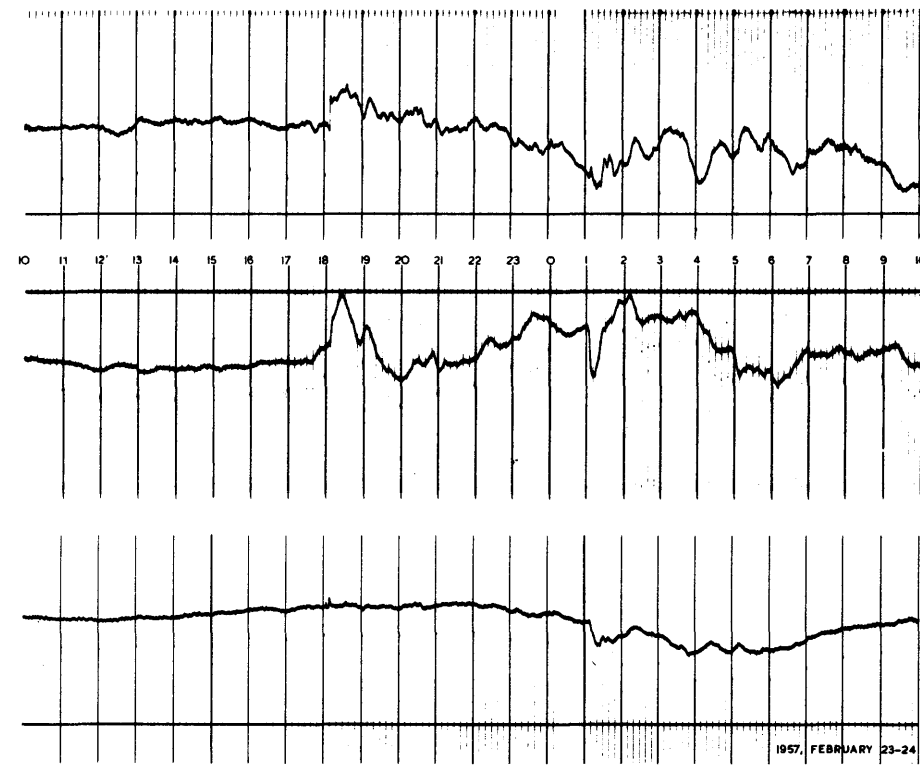
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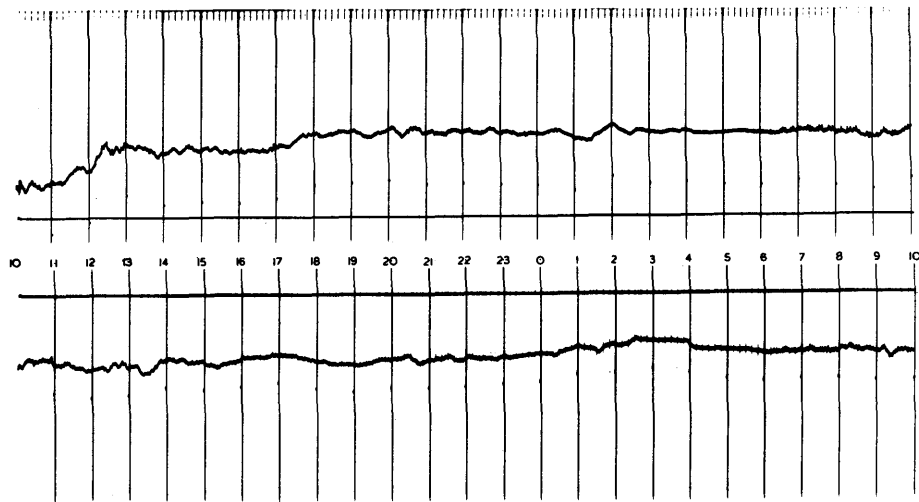


FEBRUARY 22-23

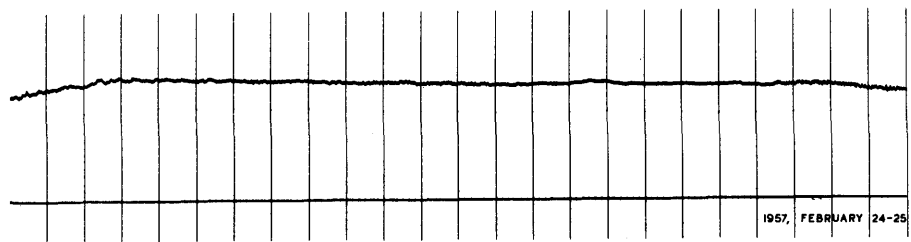


FEBRUARY 23-24

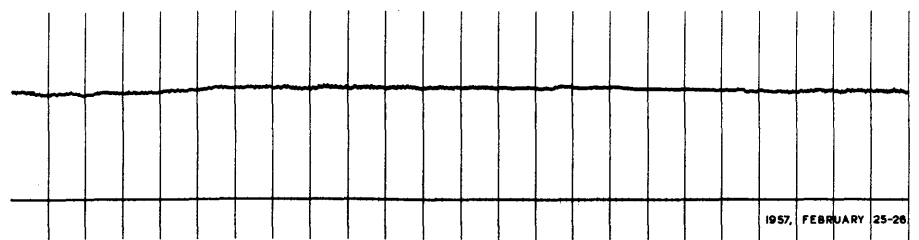
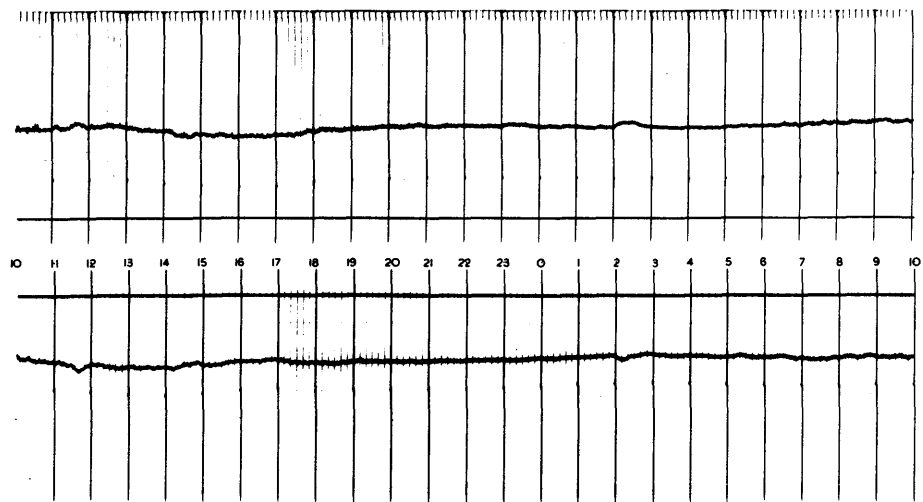




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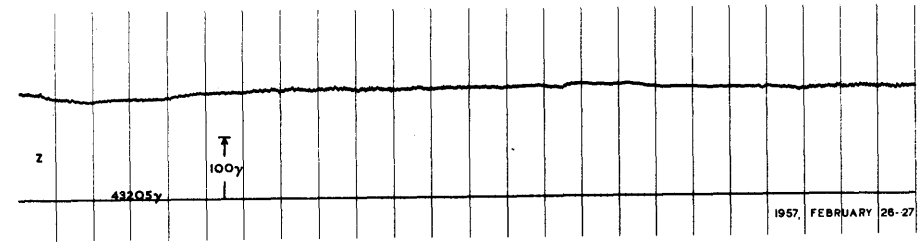
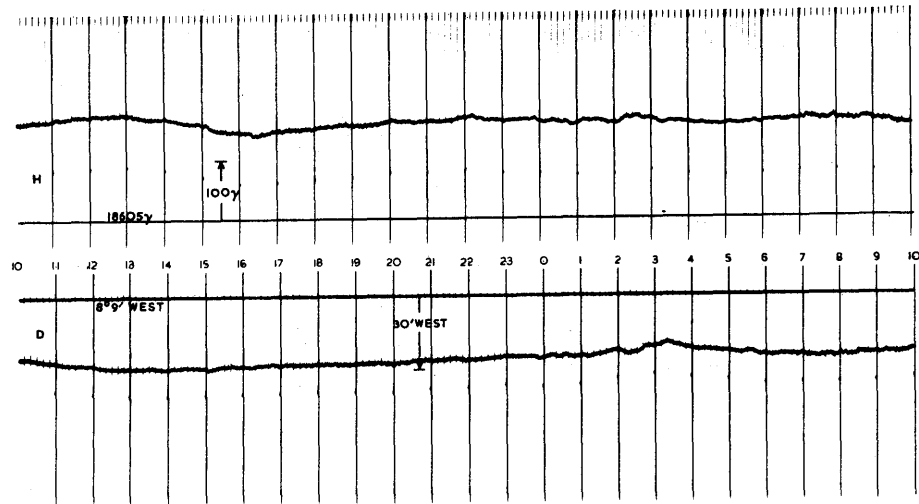


FEBRUARY 24-25

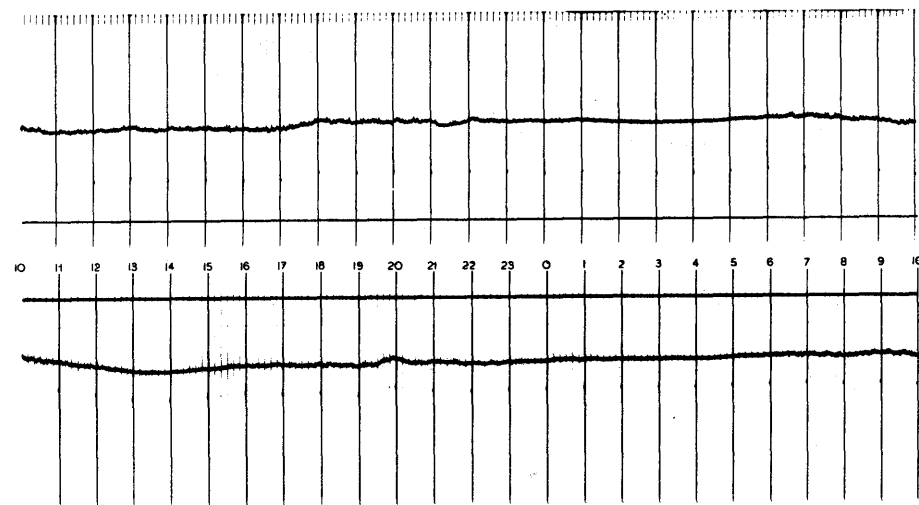


FEBRUARY 25-26

1957

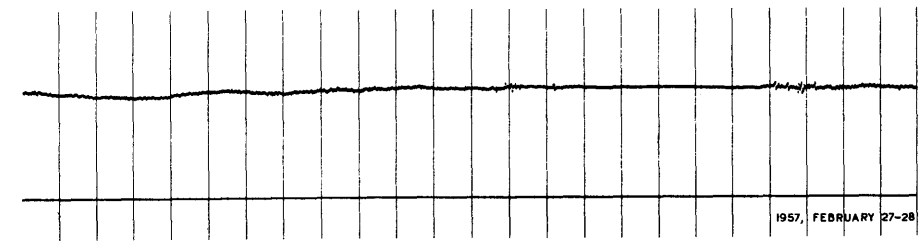


FEBRUARY 26-27



1957, FEBRUARY 26-27

FEBRUARY 27-28



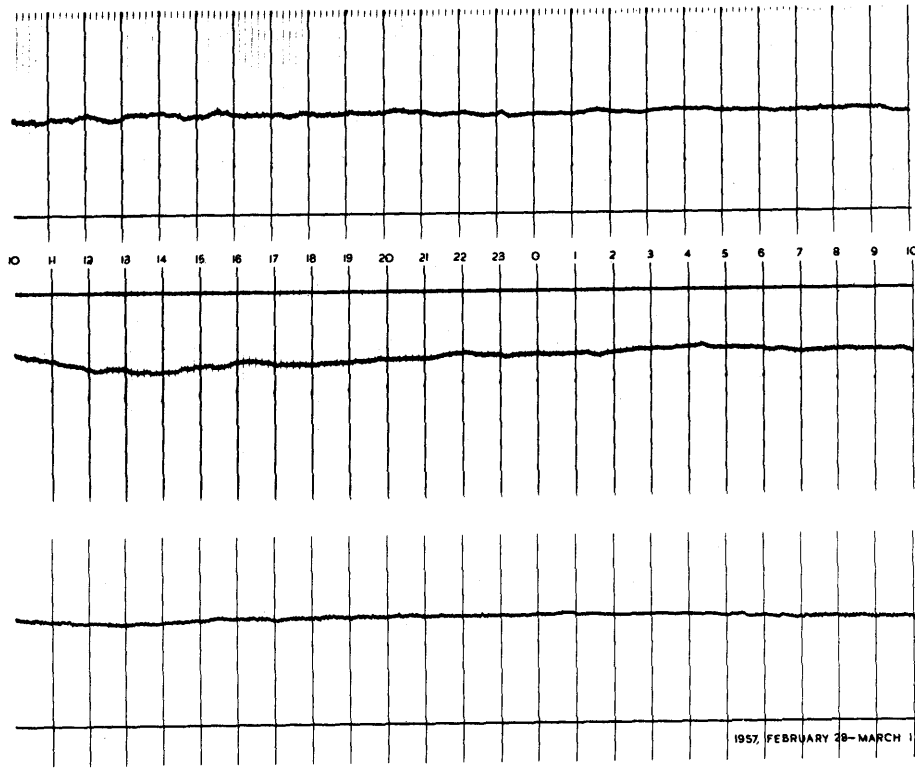
1957, FEBRUARY 27-28

1960]

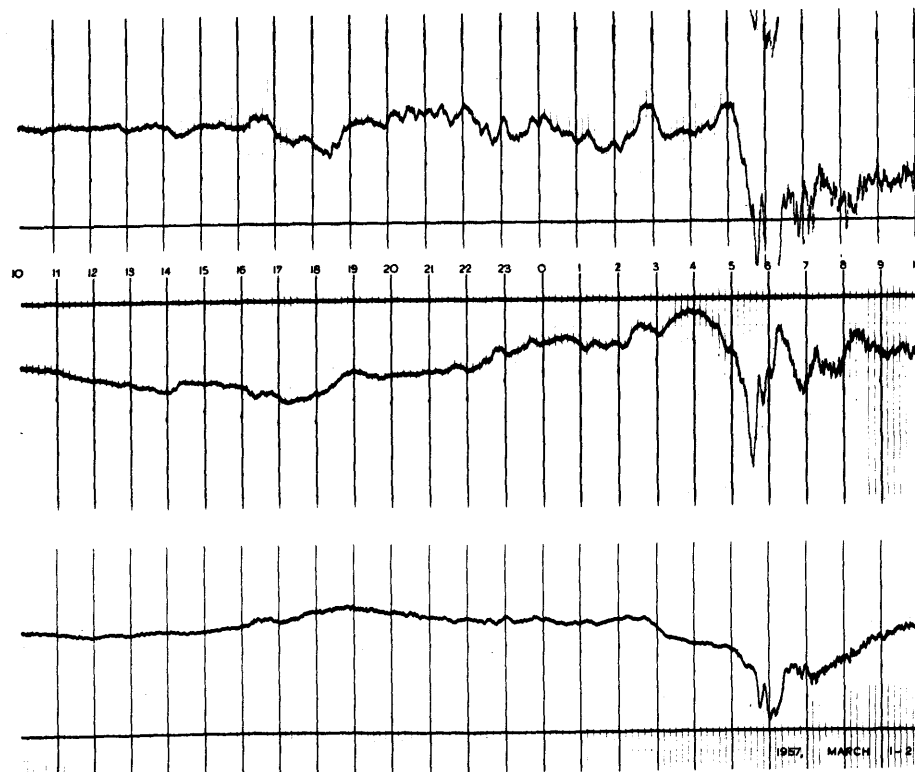
MAGNETIC RESULTS 1957 (ABINGER)

D 291

1957

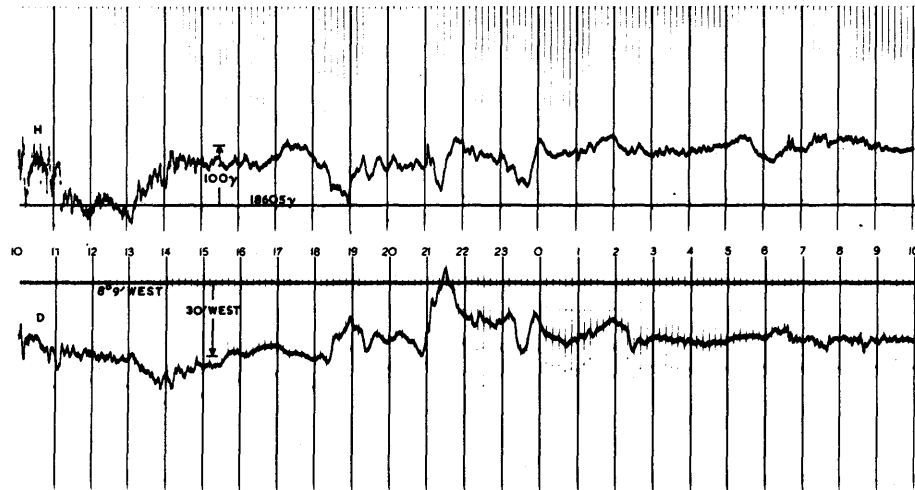


FEB.28 - MAR.1



MARCH 1-2

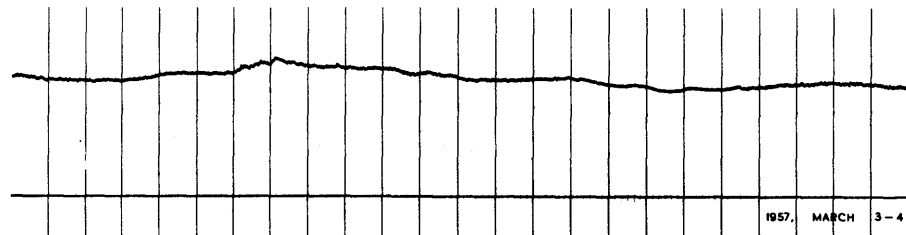
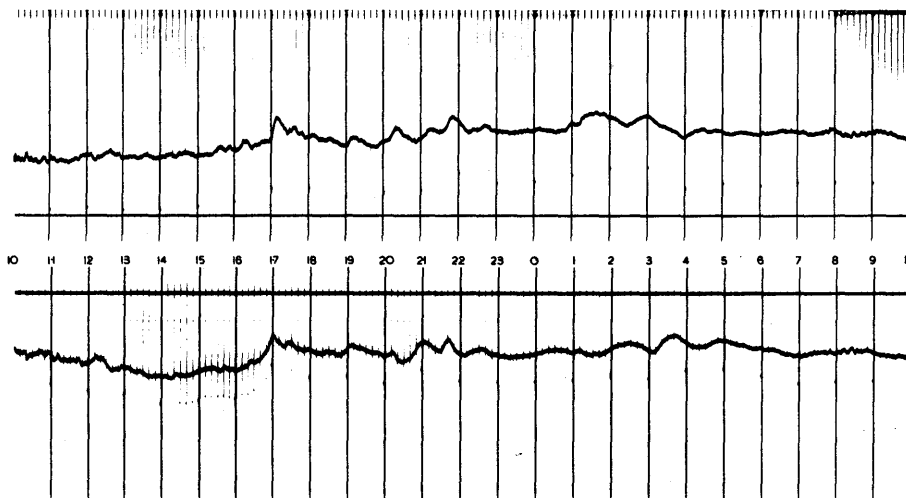
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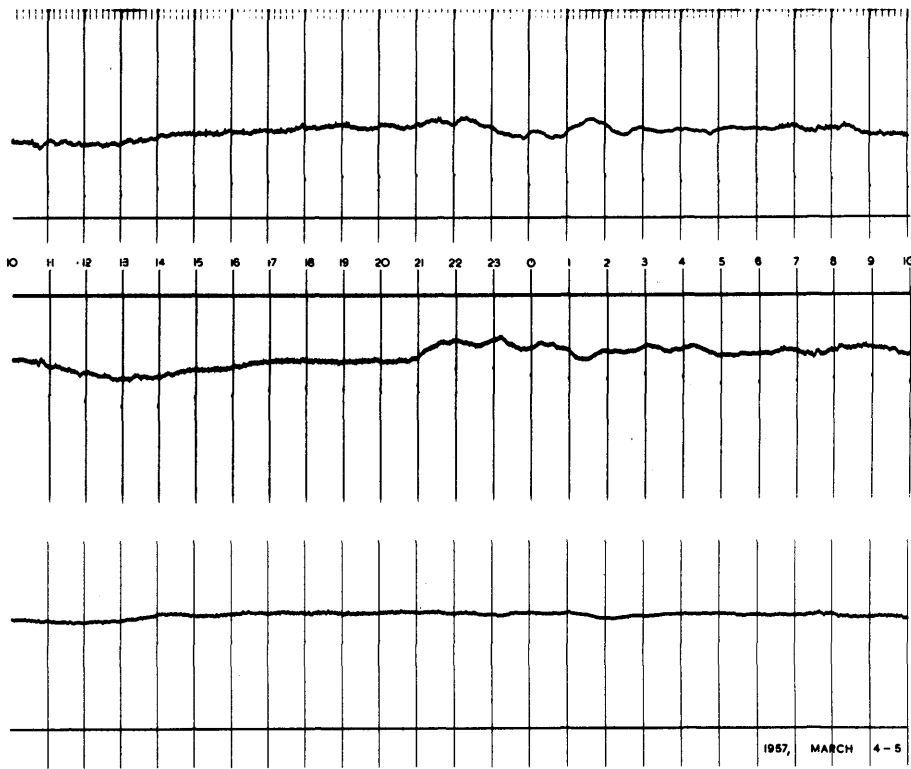


MARCH 2-3



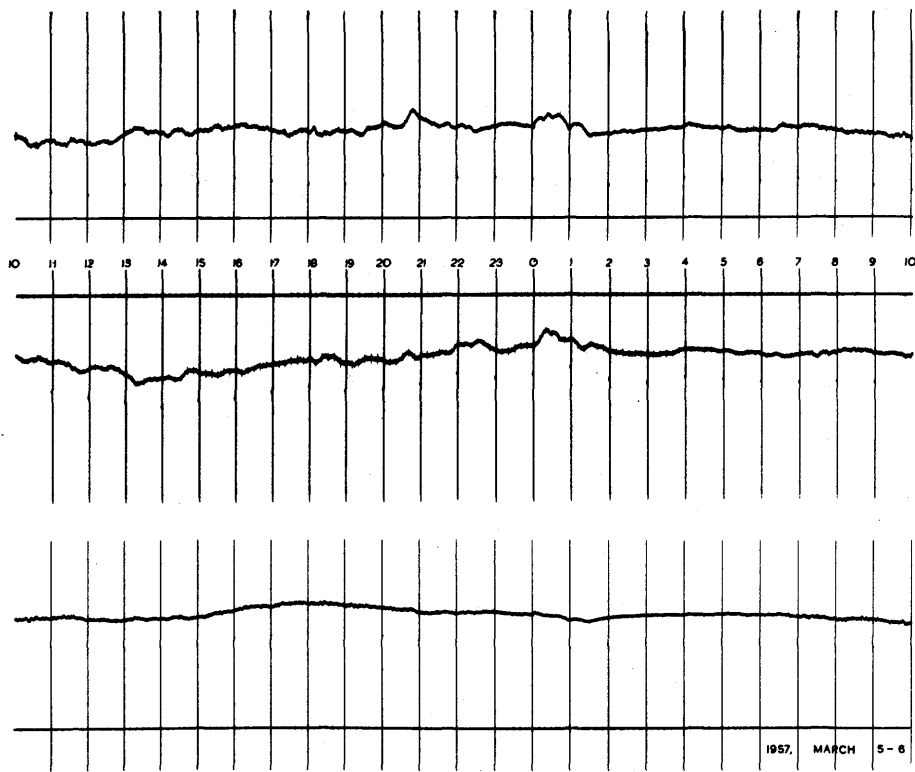
MARCH 3-4





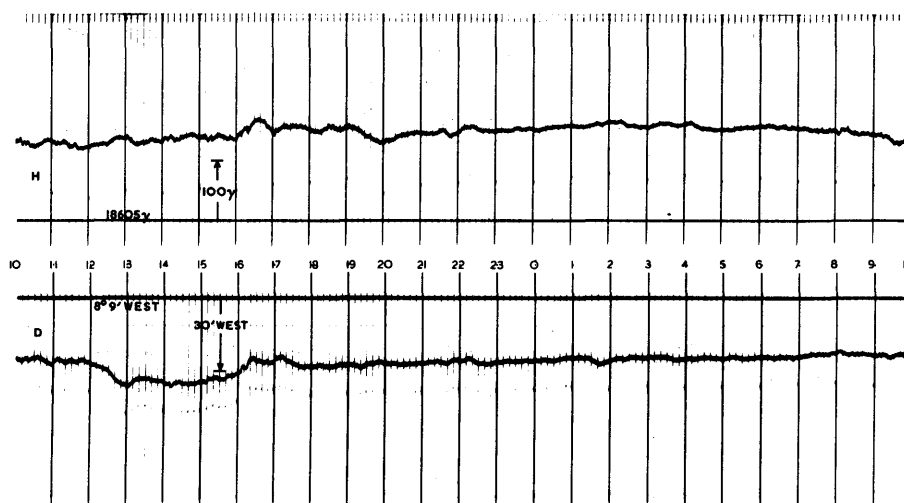
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MARCH 4-5

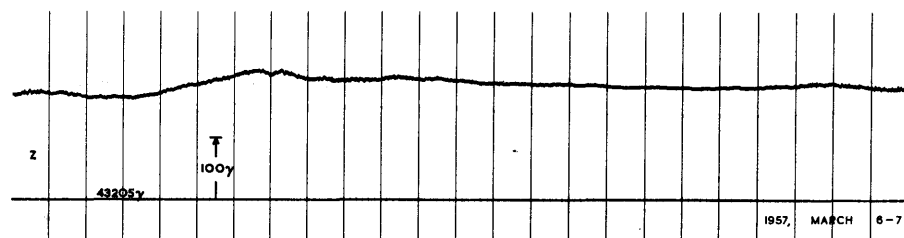


MARCH 5-6

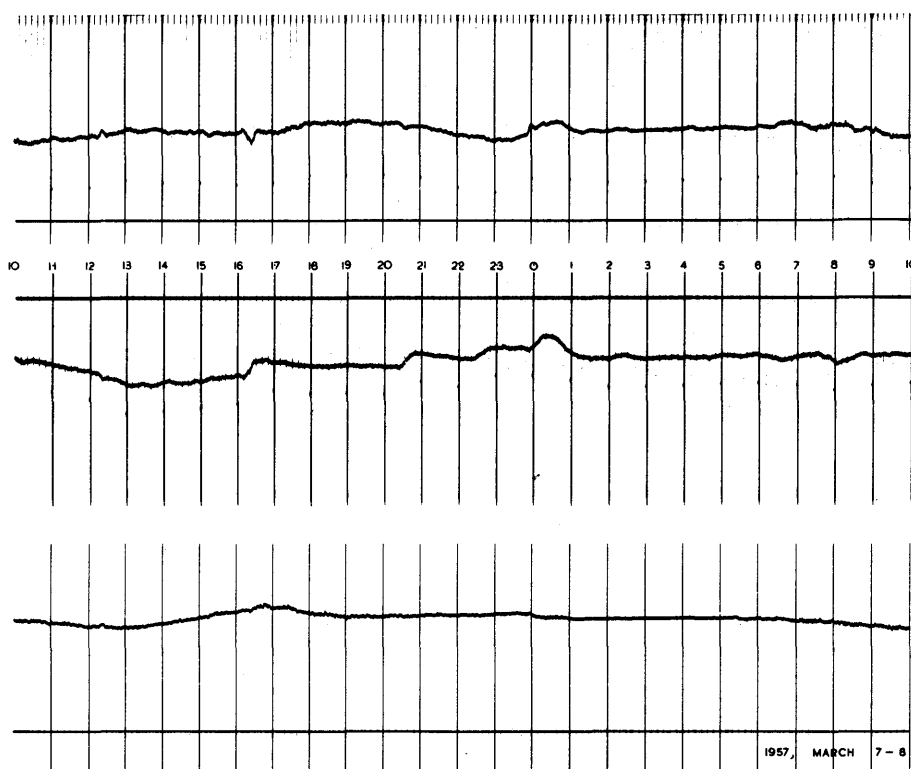
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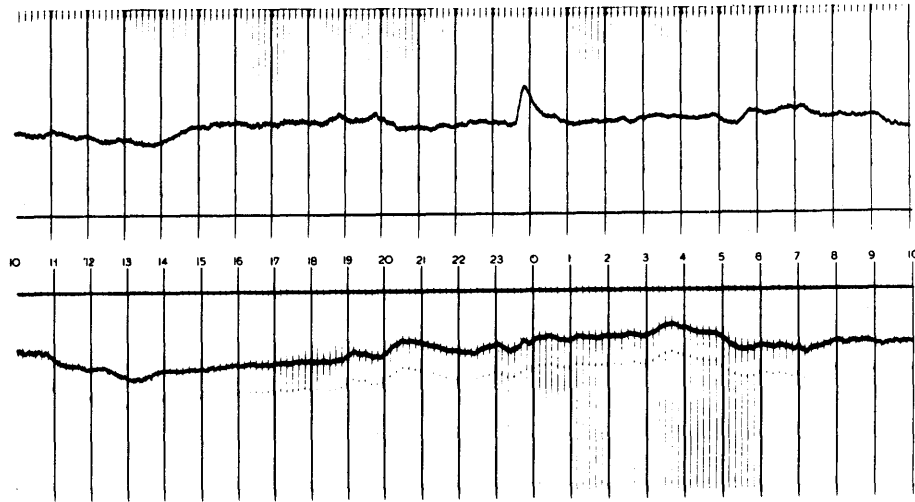


MARCH 6-7

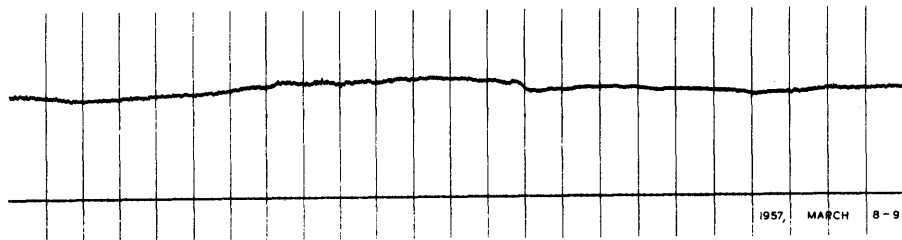


MARCH 7-8

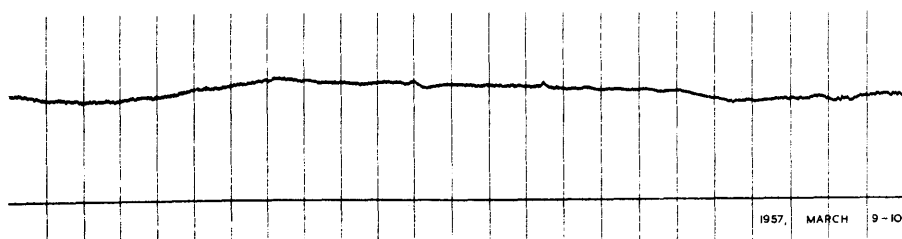
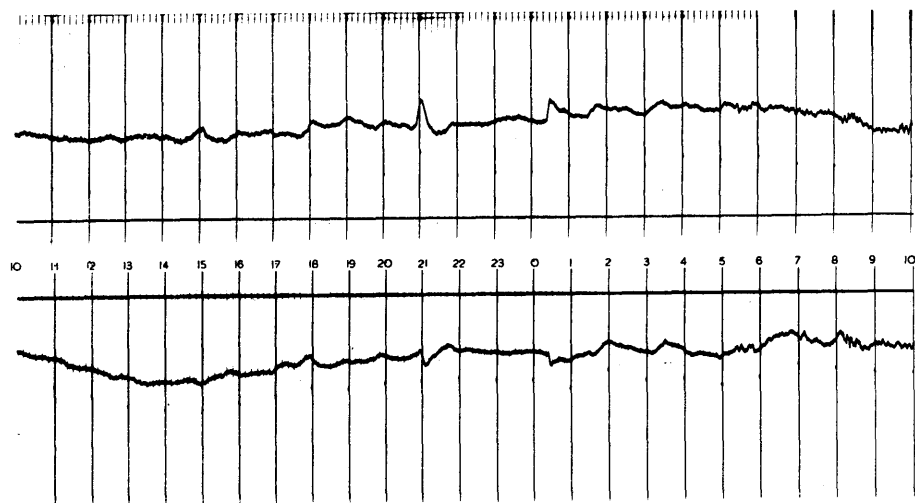




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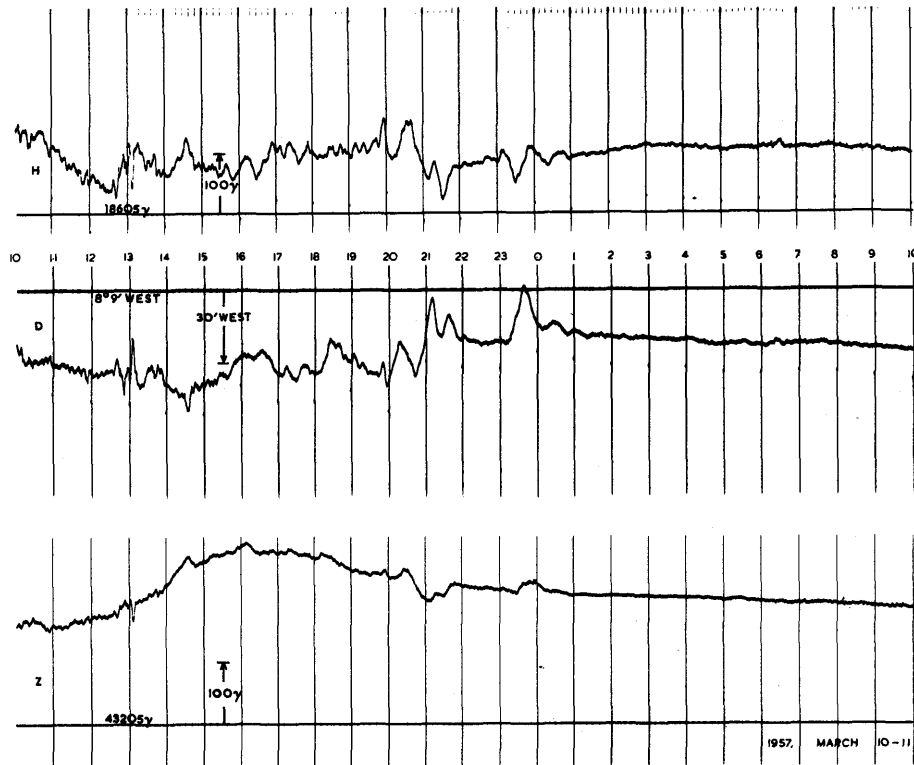


MARCH 8-9

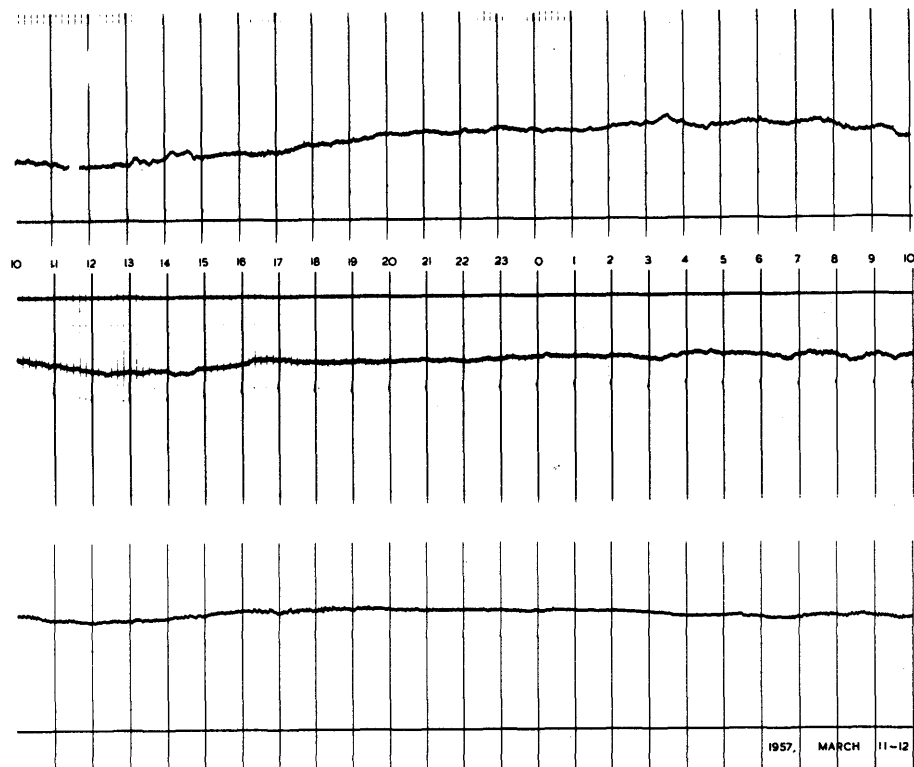


MARCH 9-10

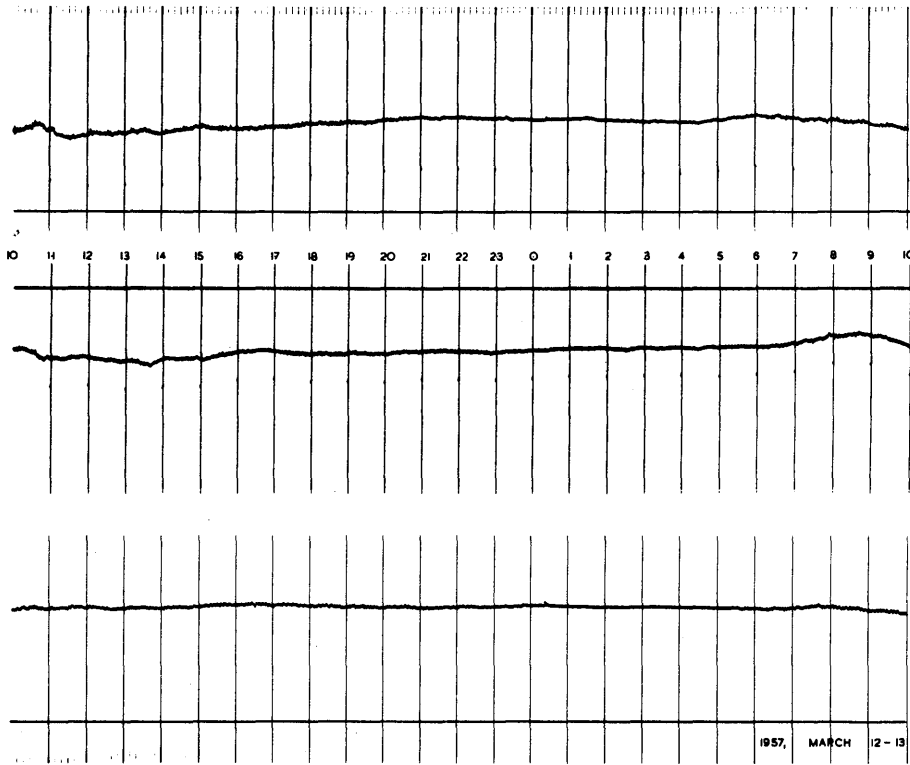
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MARCH 10-11

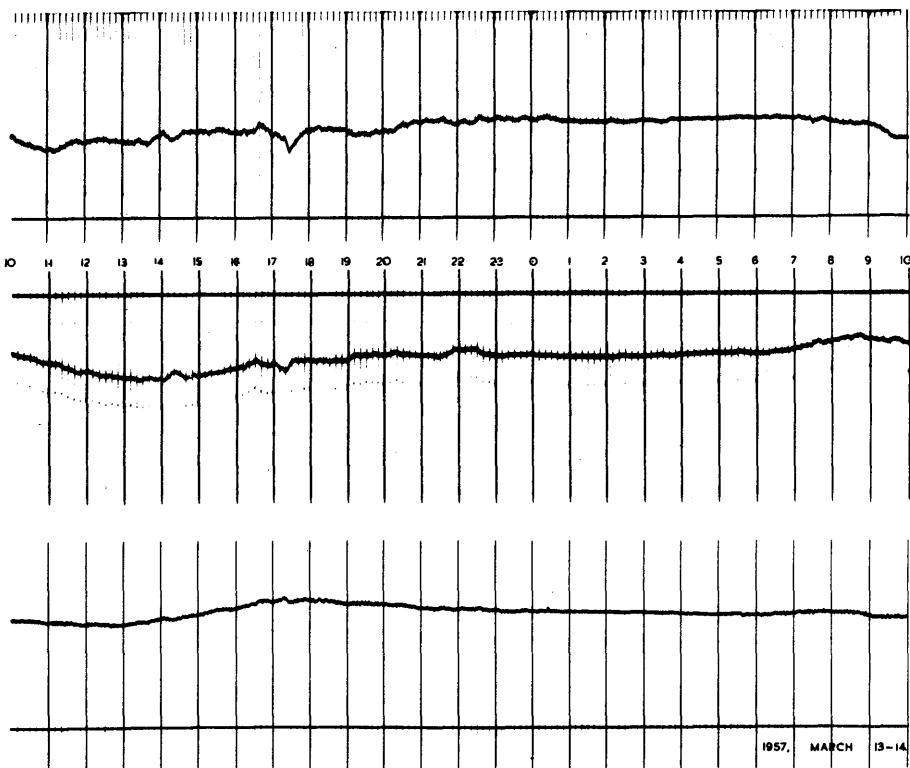


MARCH 11-12



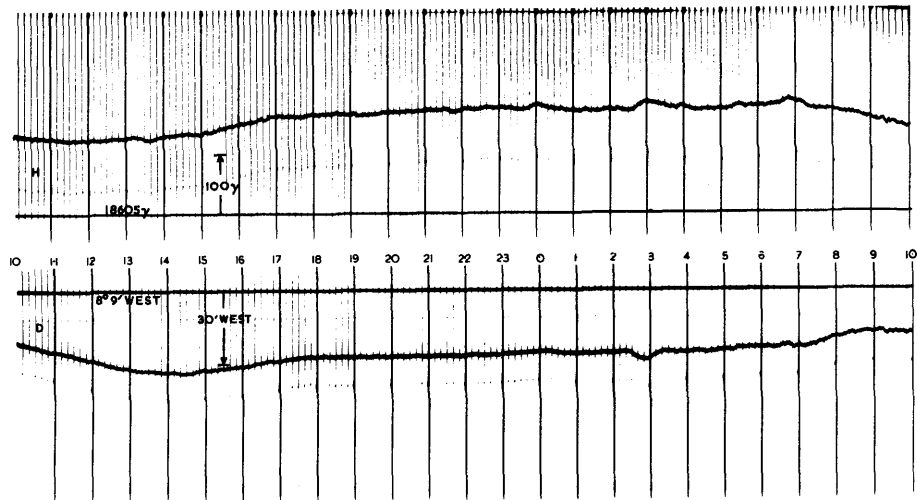
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MARCH 12-13

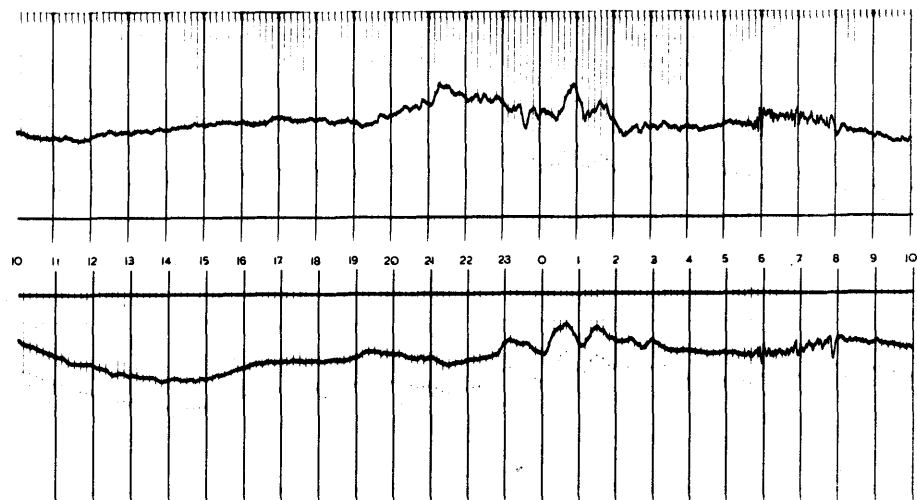
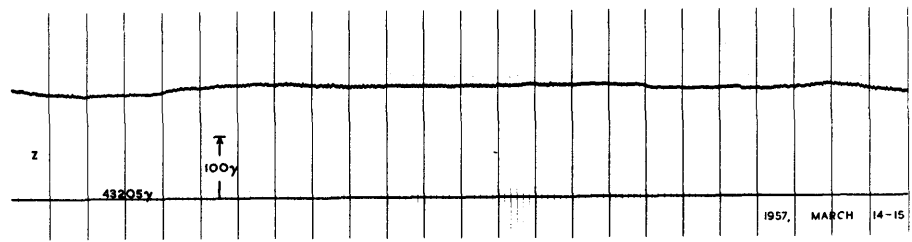


MARCH 13-14

1957

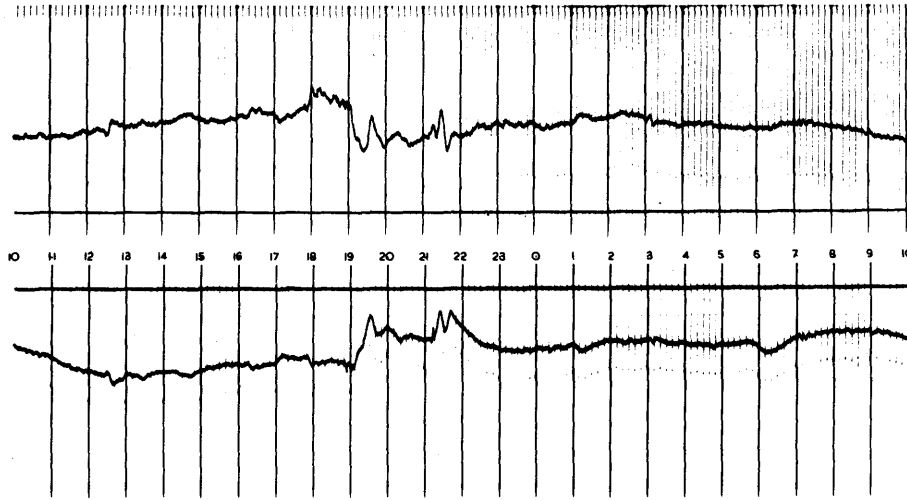


MARCH 14-15

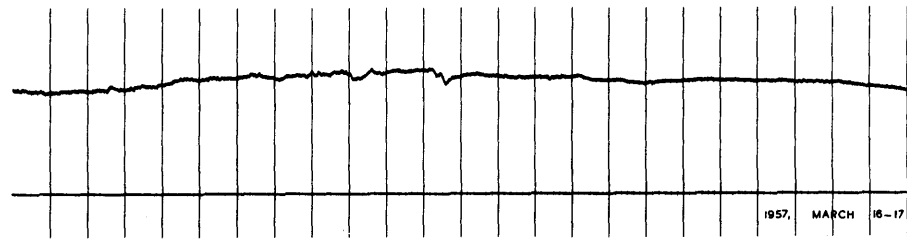


MARCH 15-16

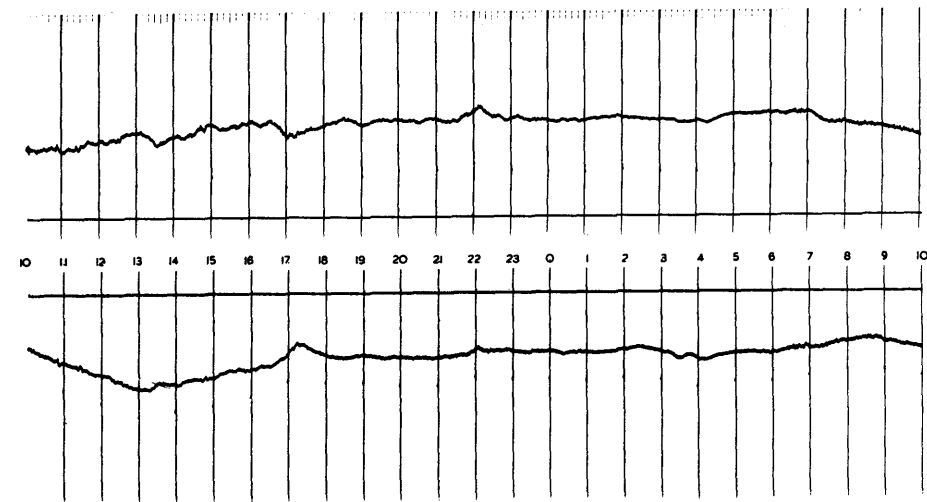




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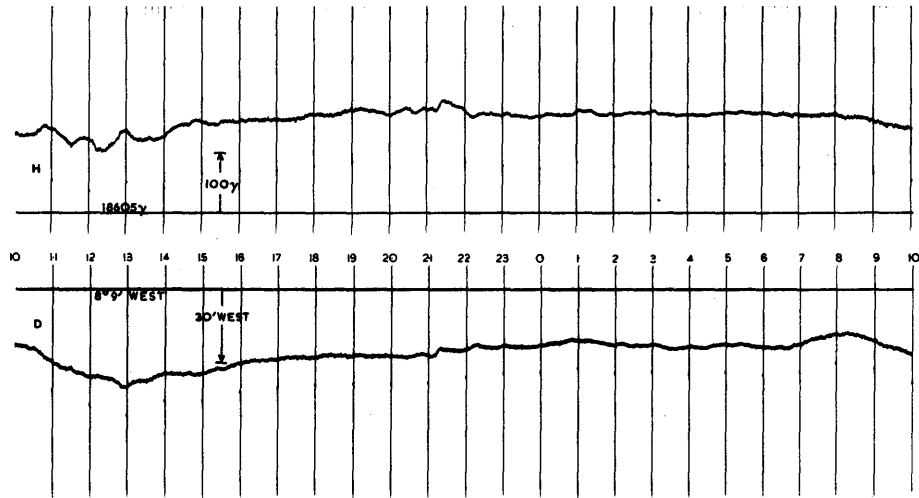


MARCH 16-17

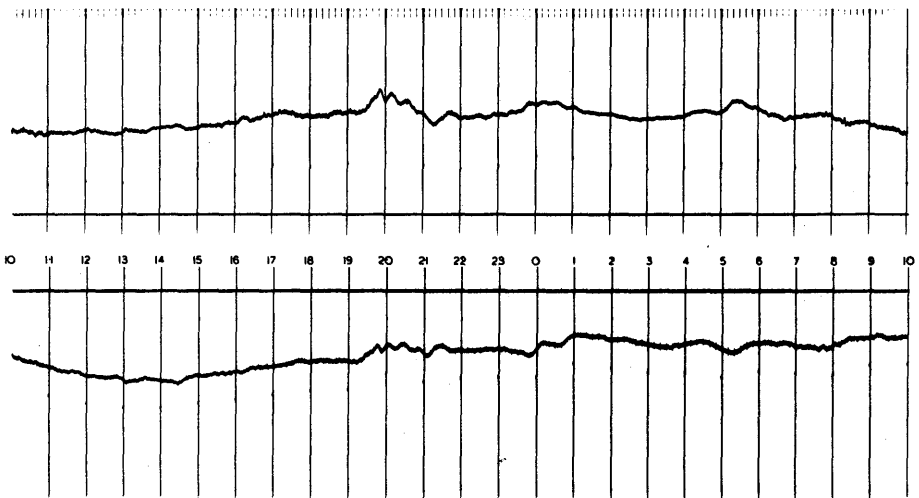
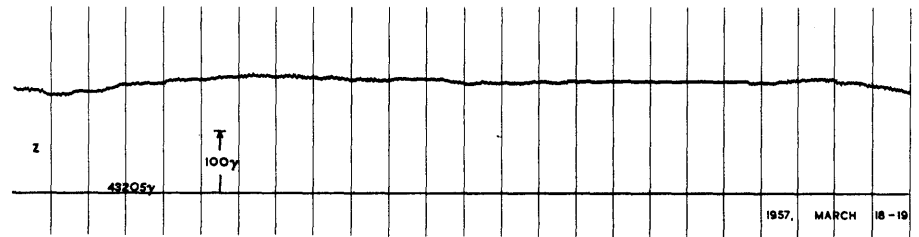


MARCH 17-18

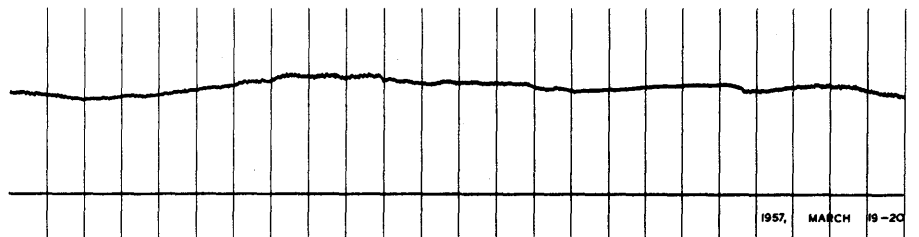
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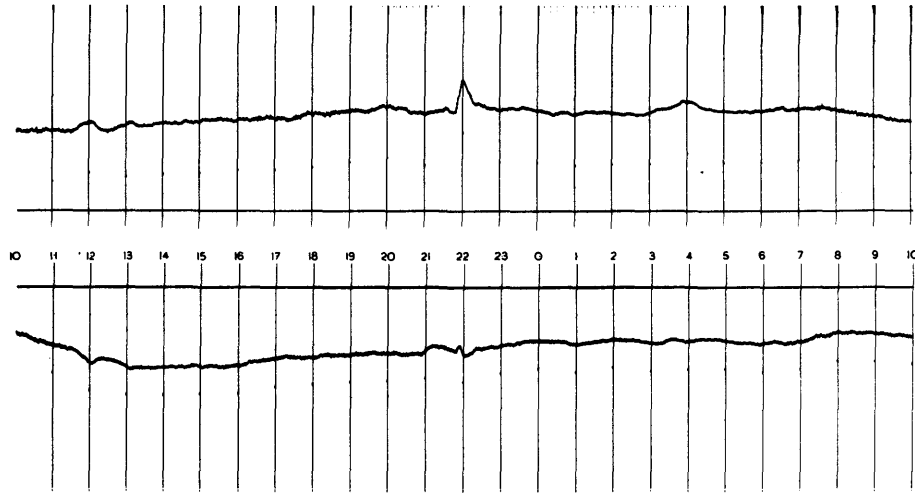


MARCH 18-19

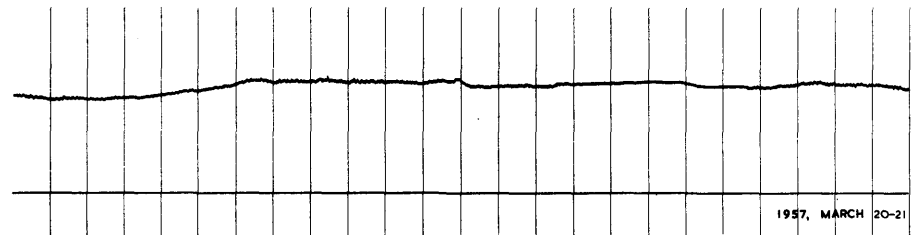


MARCH 19-20



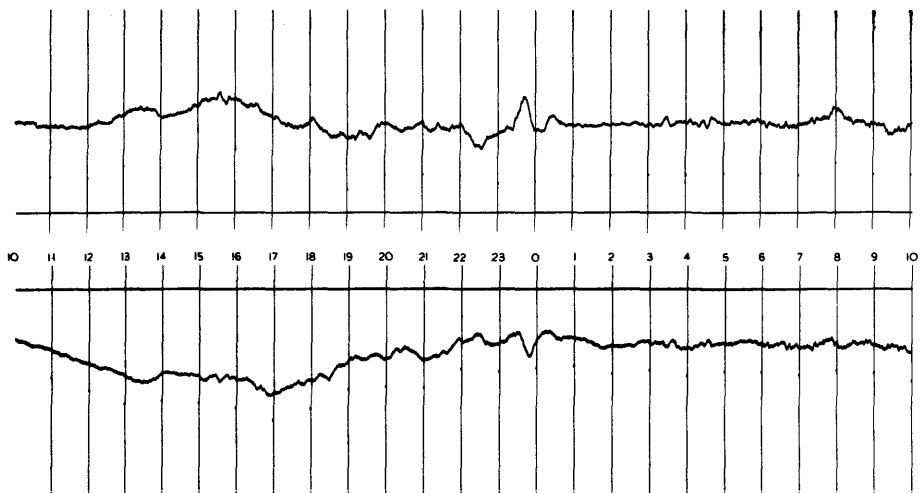


1957



1957, MARCH 20-21

MARCH 20-21

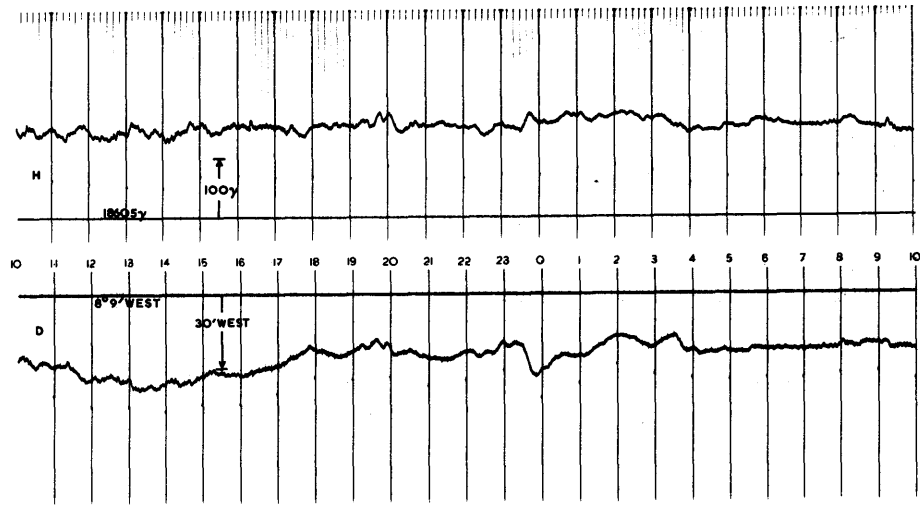


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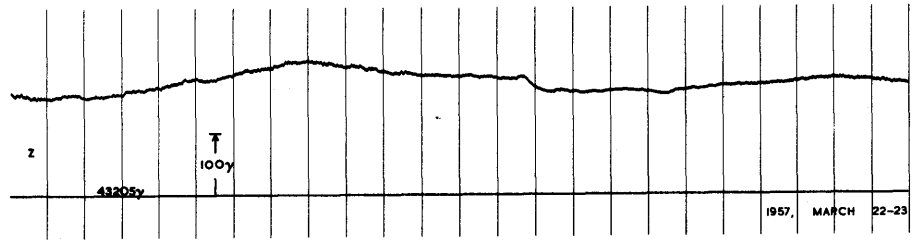
1957, MARCH 21-22

MARCH 21-22

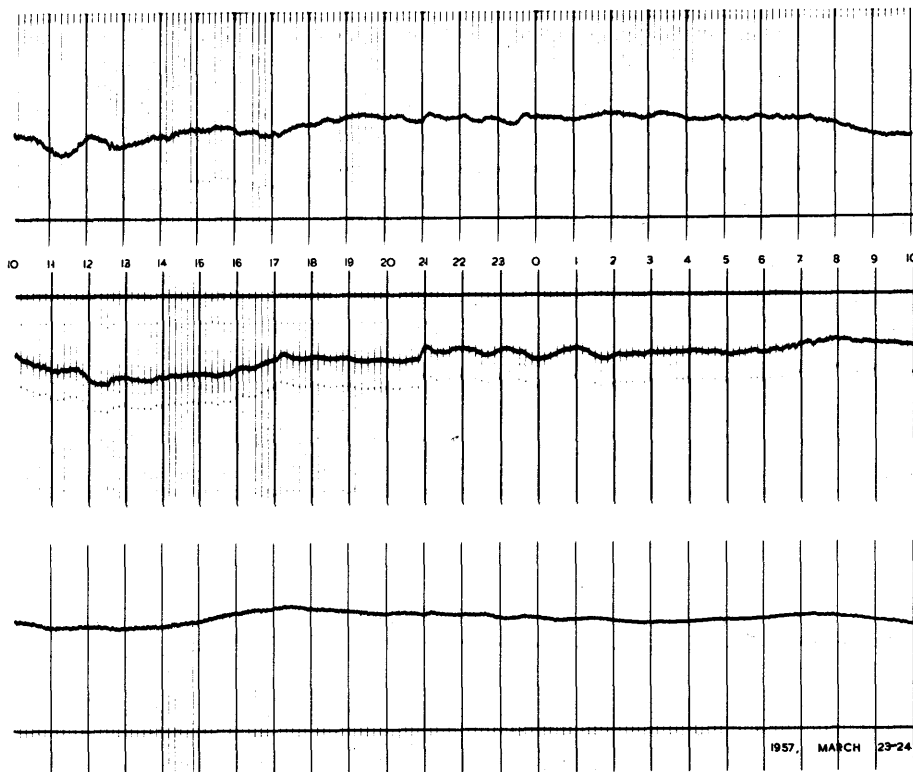
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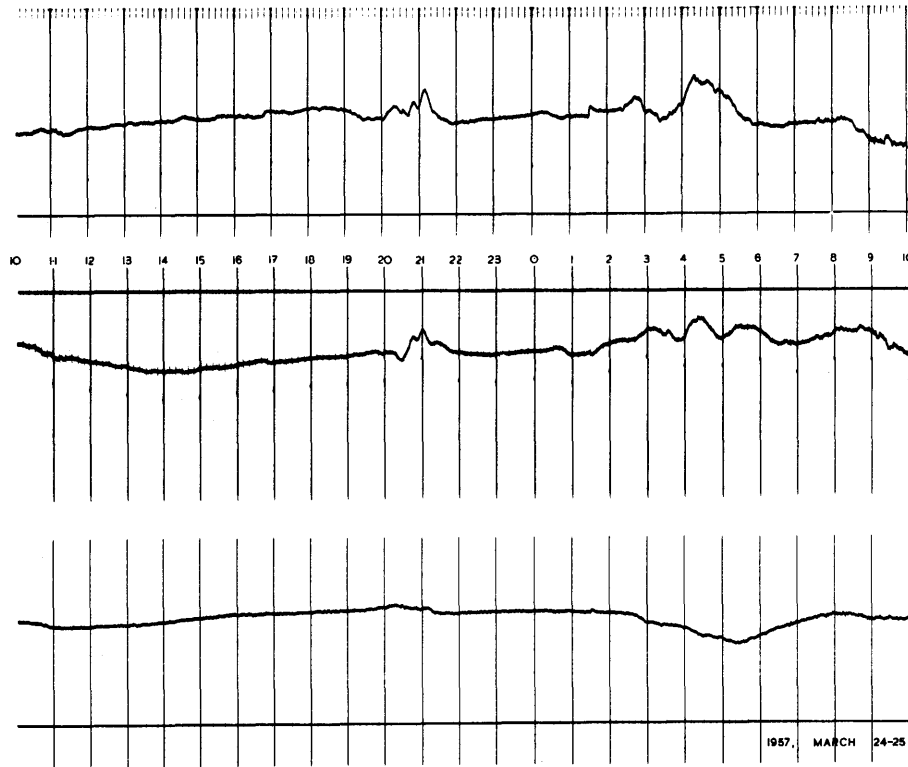


MARCH 22-23



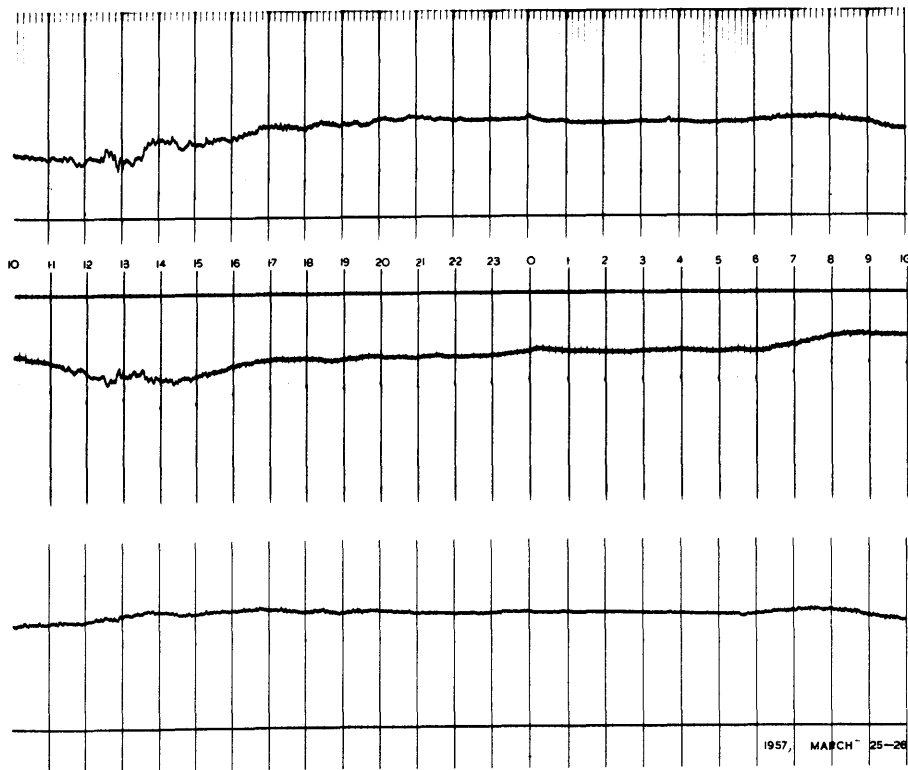
MARCH 23-24





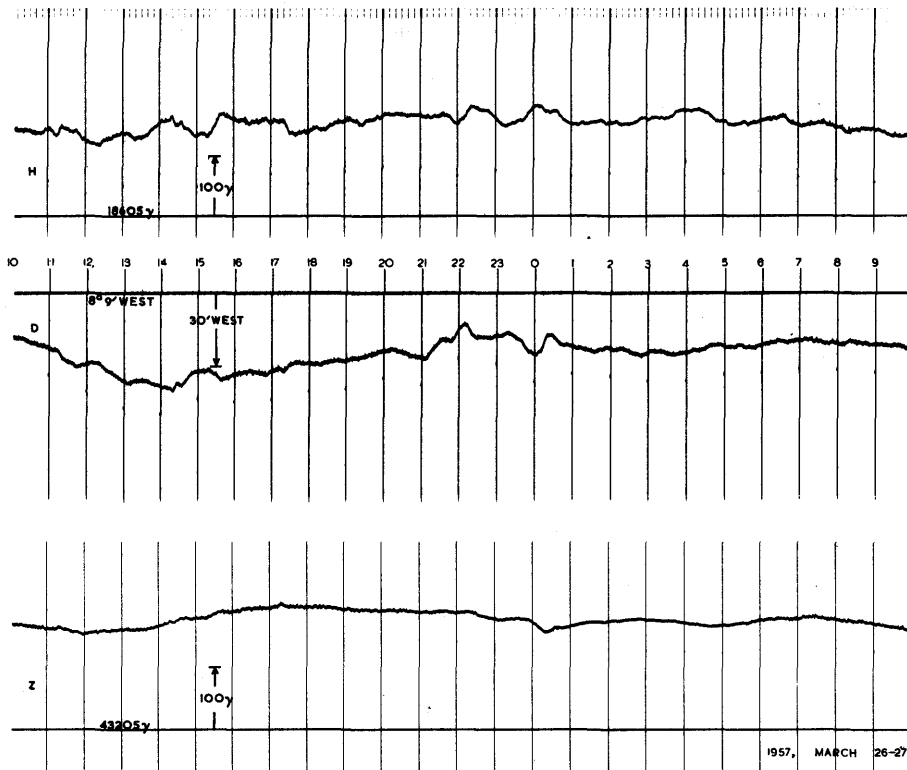
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MARCH 24-25

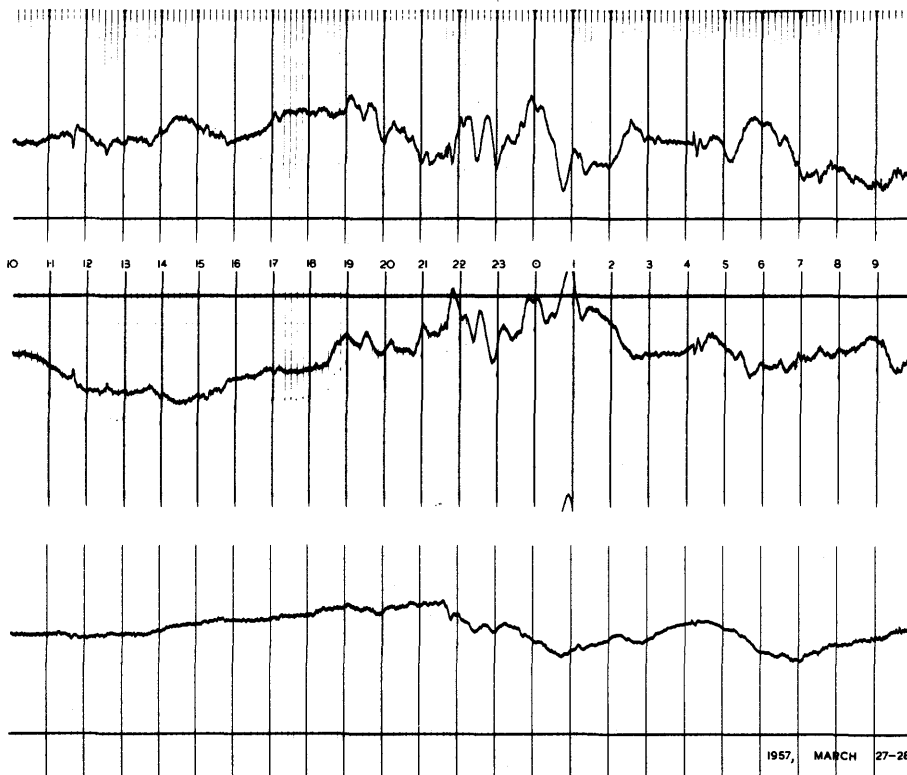


MARCH 25-26

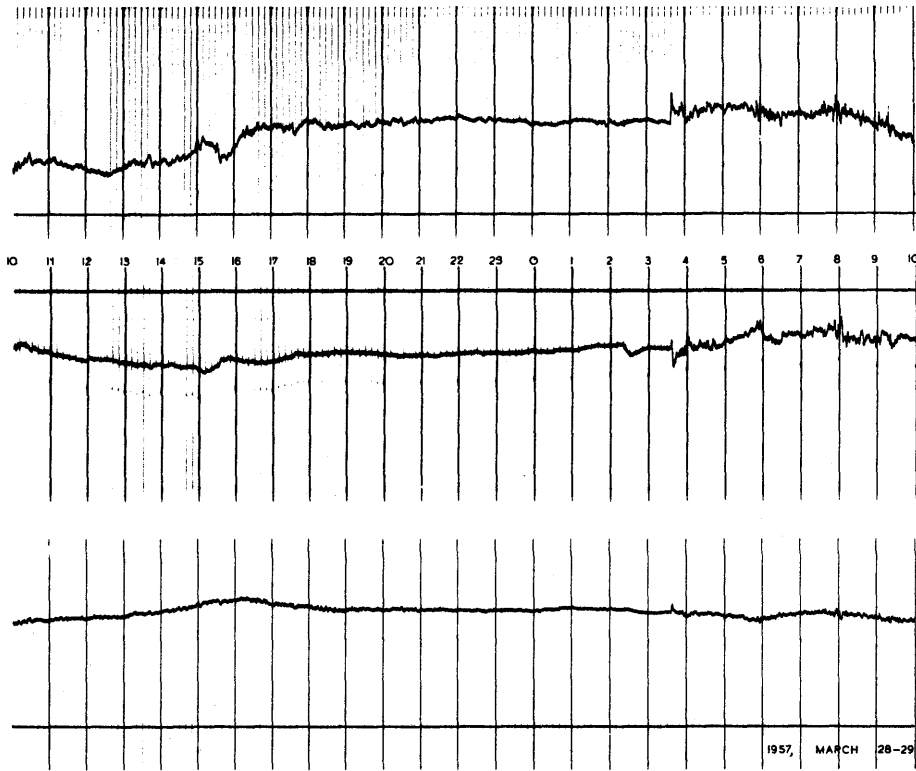
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MARCH 26-27

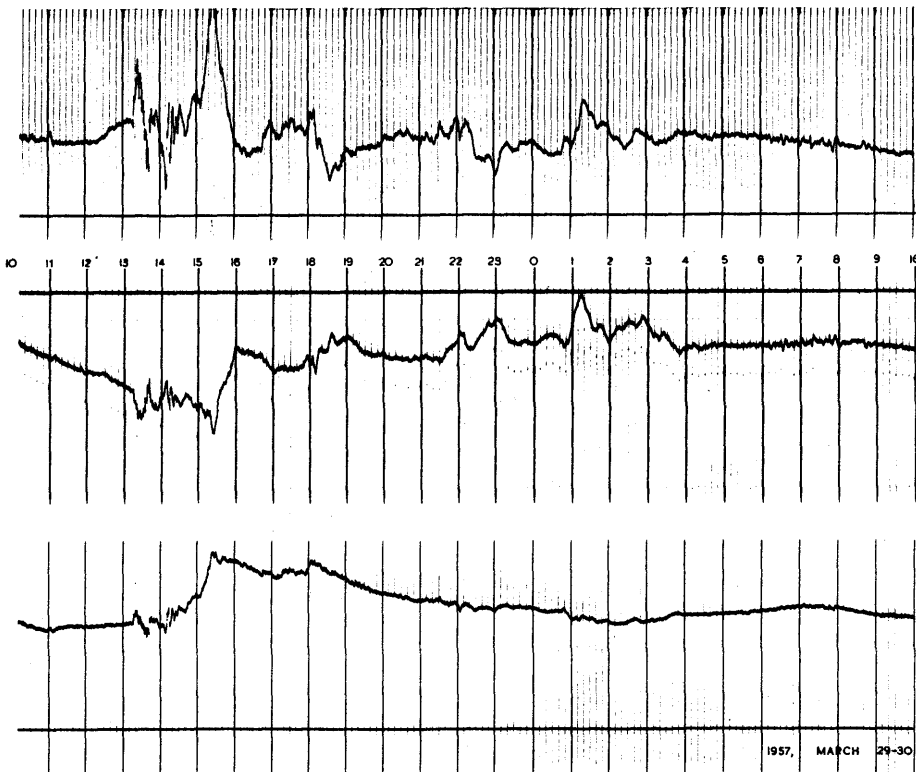


MARCH 27-28



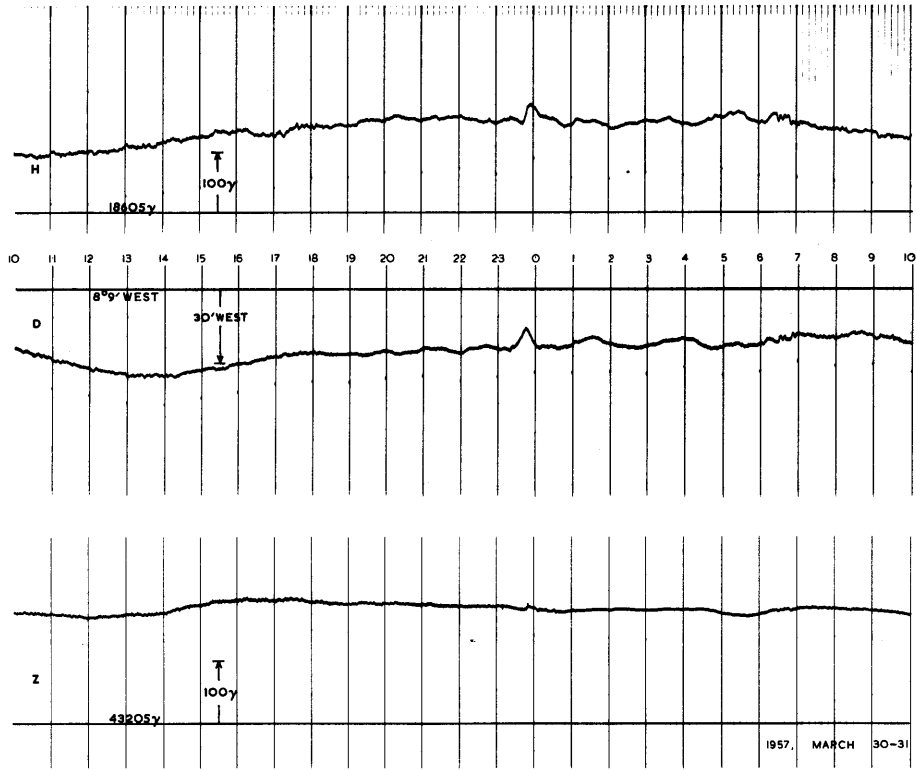
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MARCH 28-29

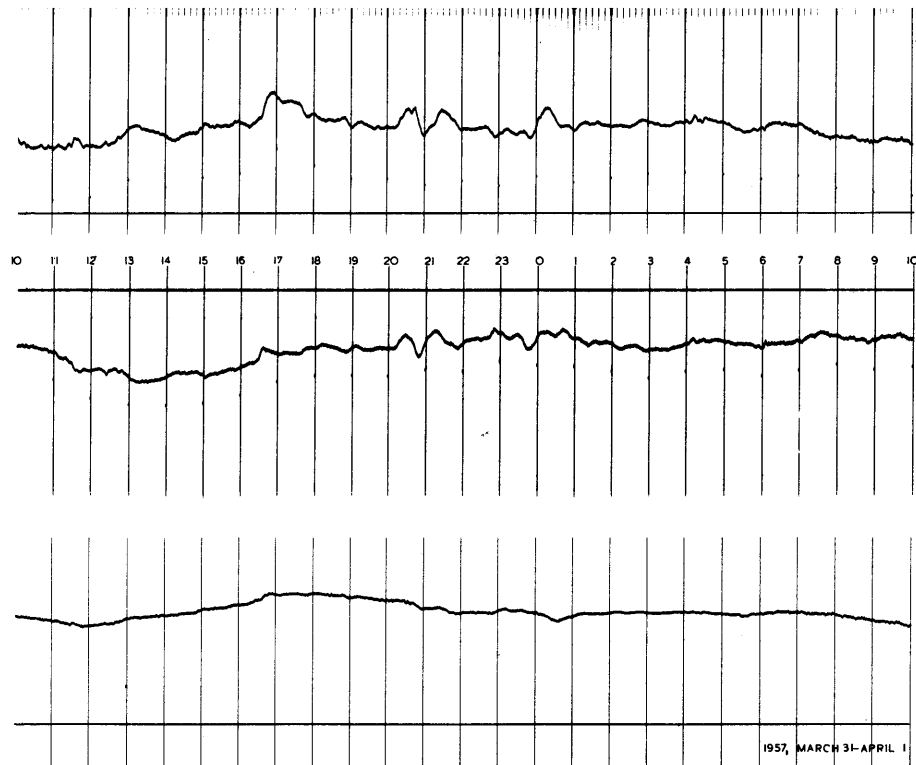


MARCH 29-30

1957

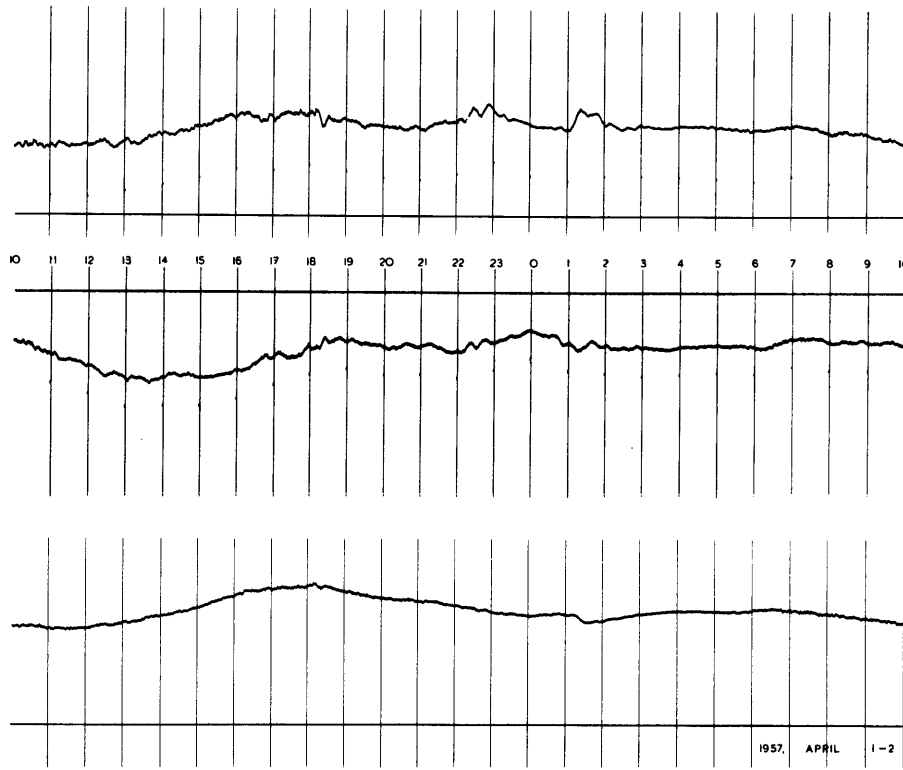


MARCH 30-31

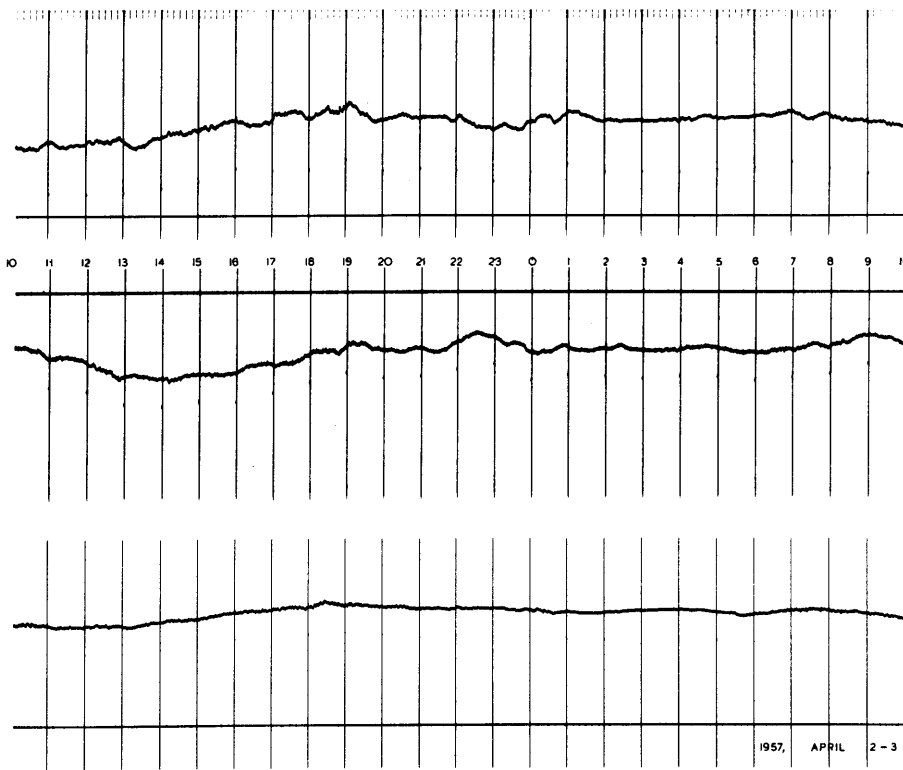


MAR.31-APR.1

1957

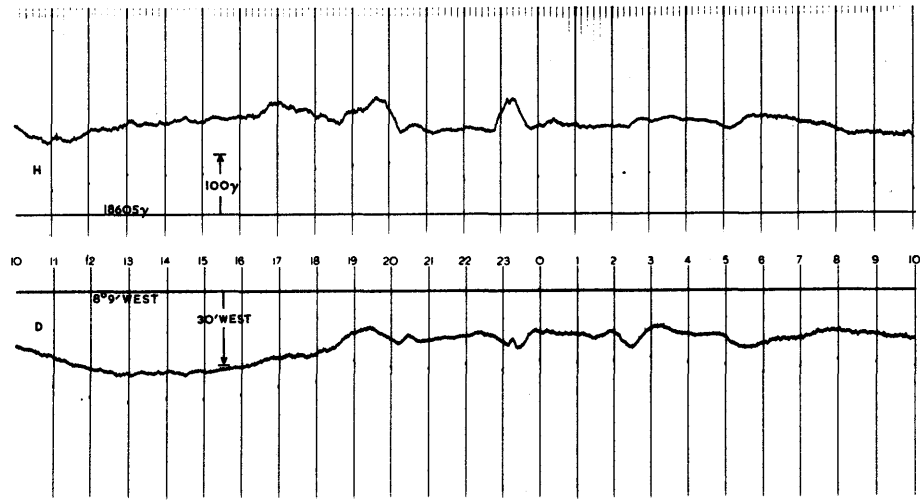


APRIL 1-2

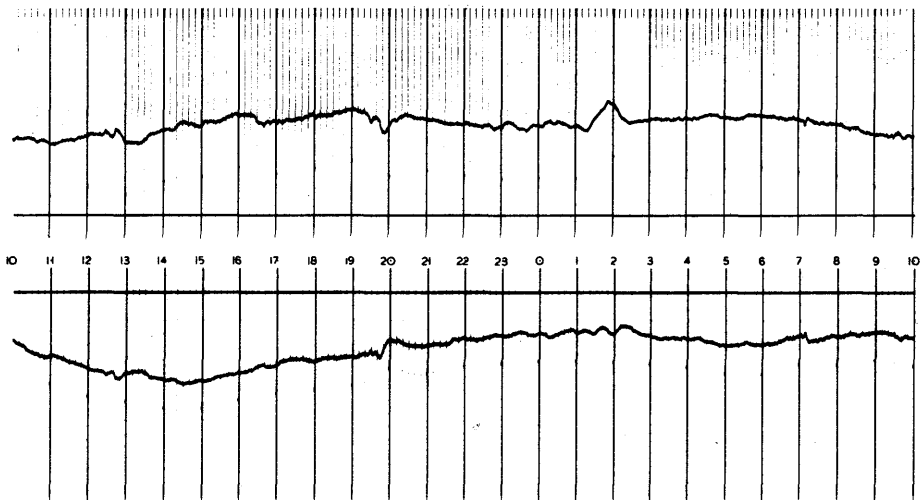
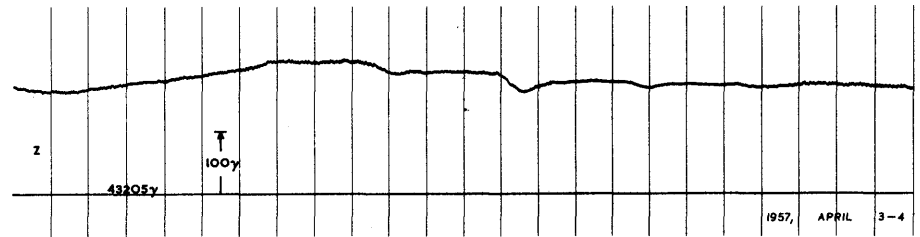


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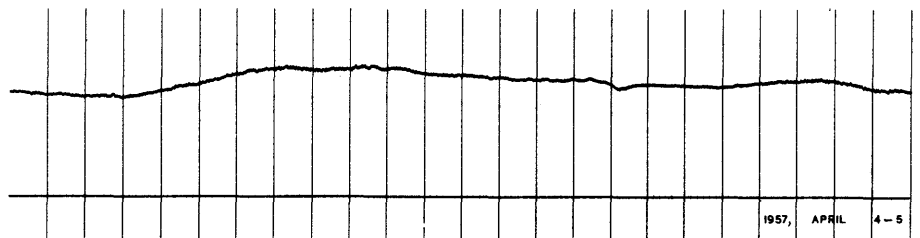
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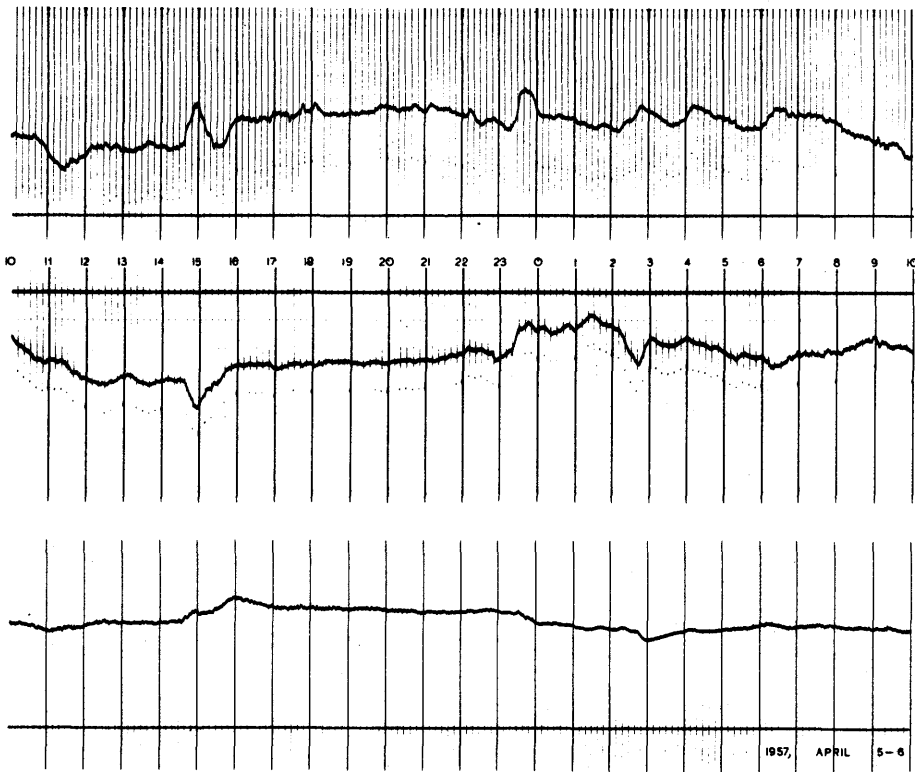
APRIL 3-4



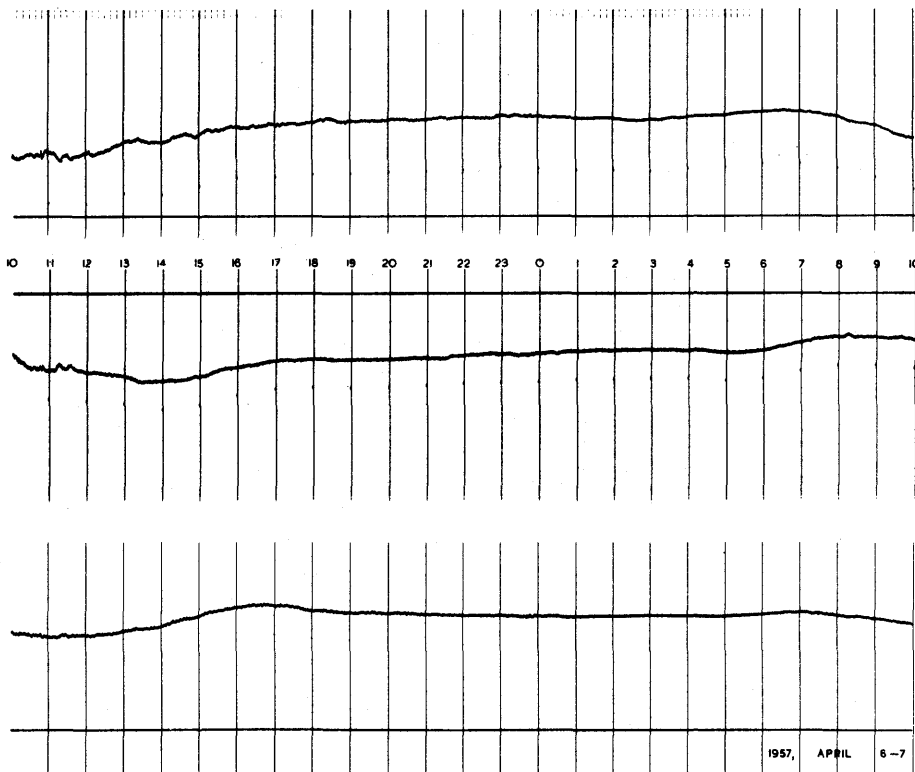
APRIL 4-5



1957

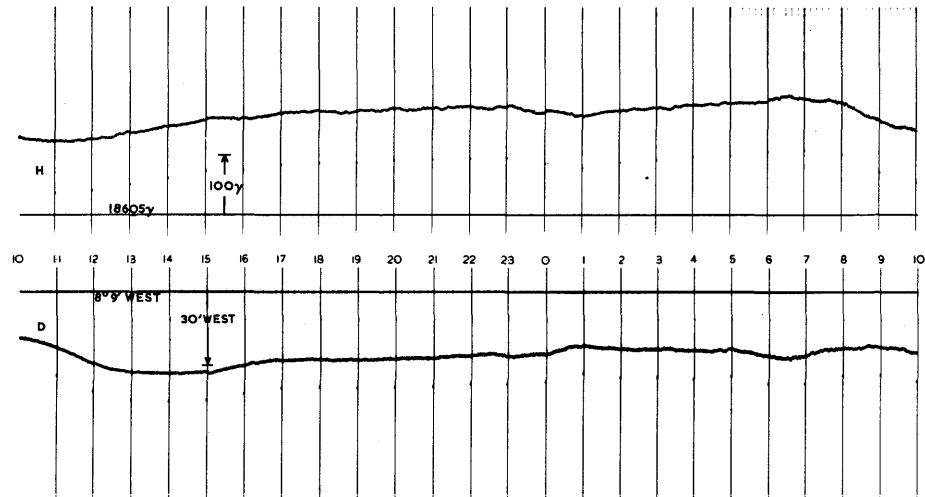


APRIL 5-6



APRIL 6-7

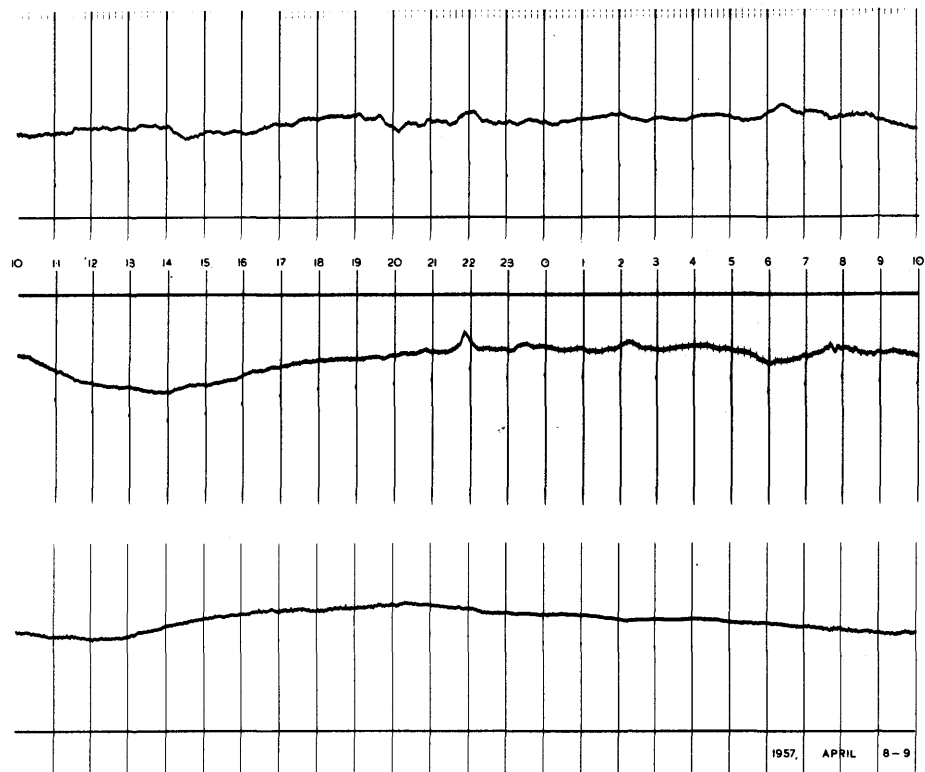
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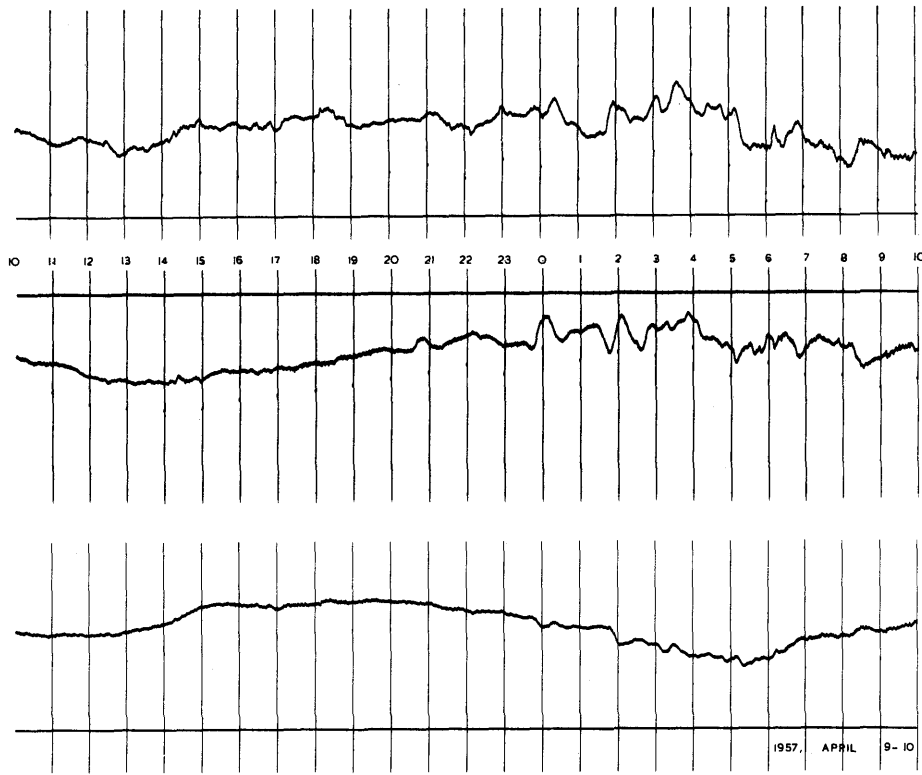


APRIL 7-8



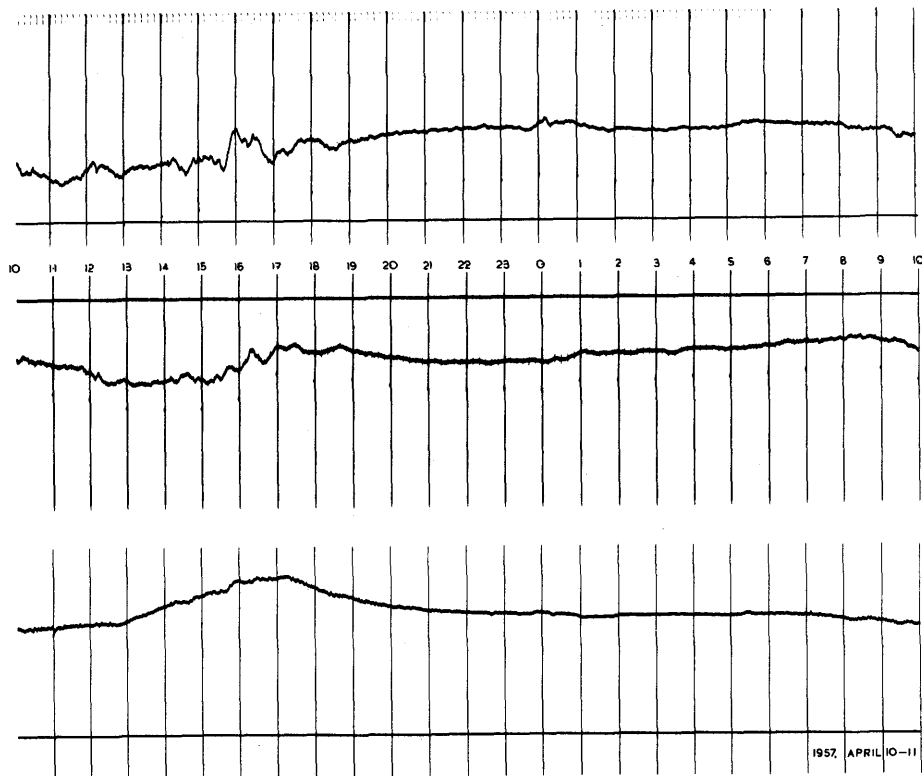
APRIL 8-9





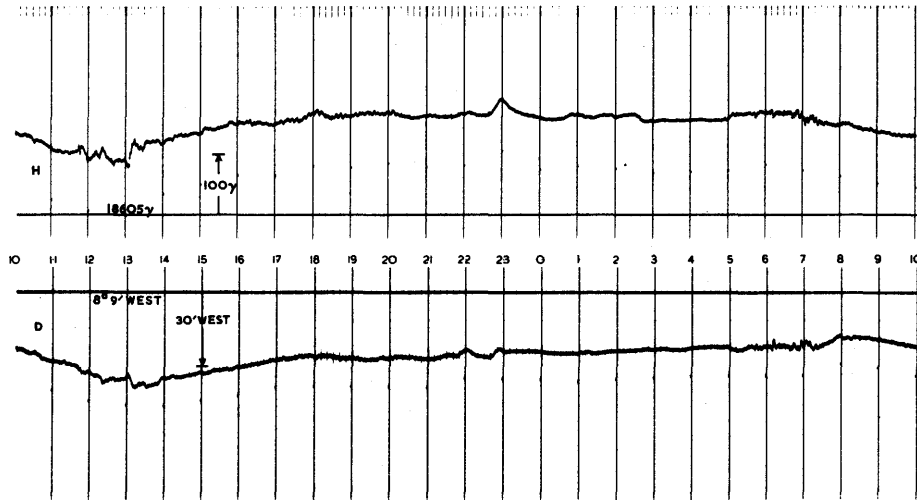
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APRIL 9-10

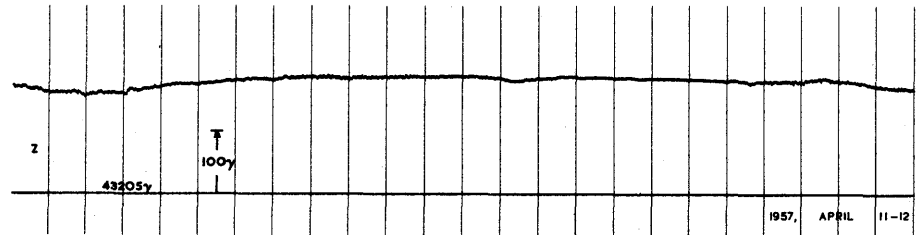


APRIL 10-11

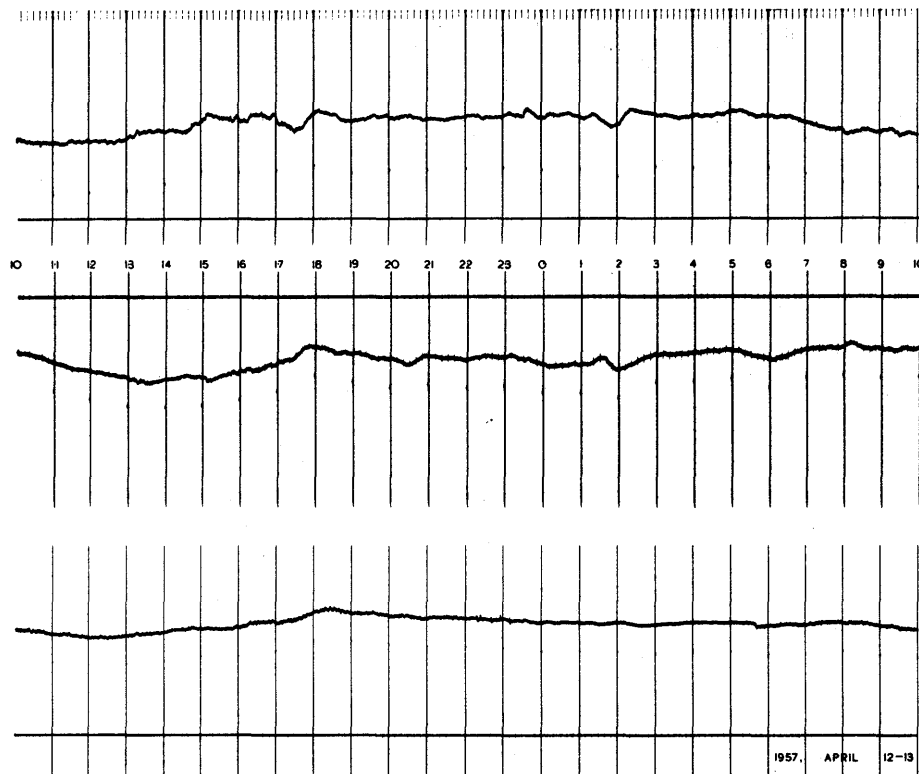
1957



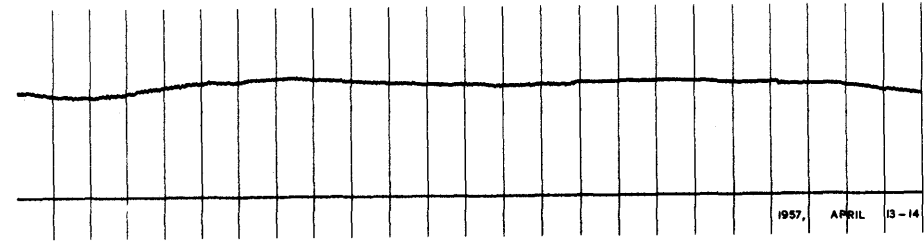
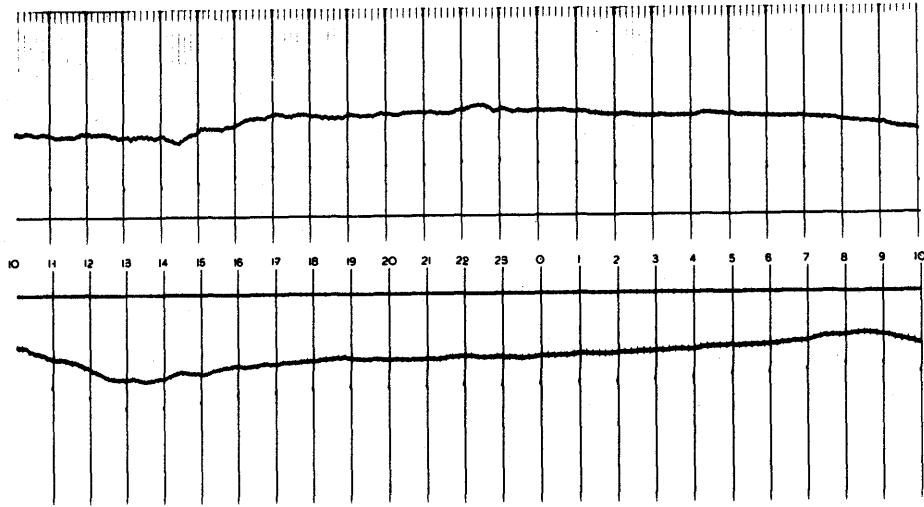
APRIL 11-12



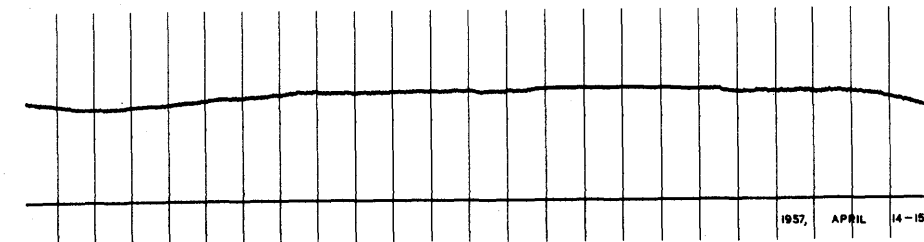
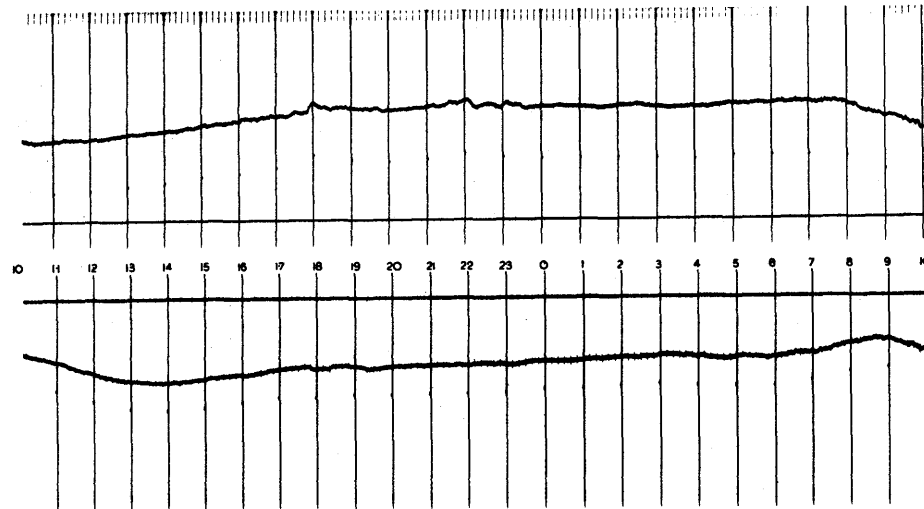
APRIL 12-13



1957

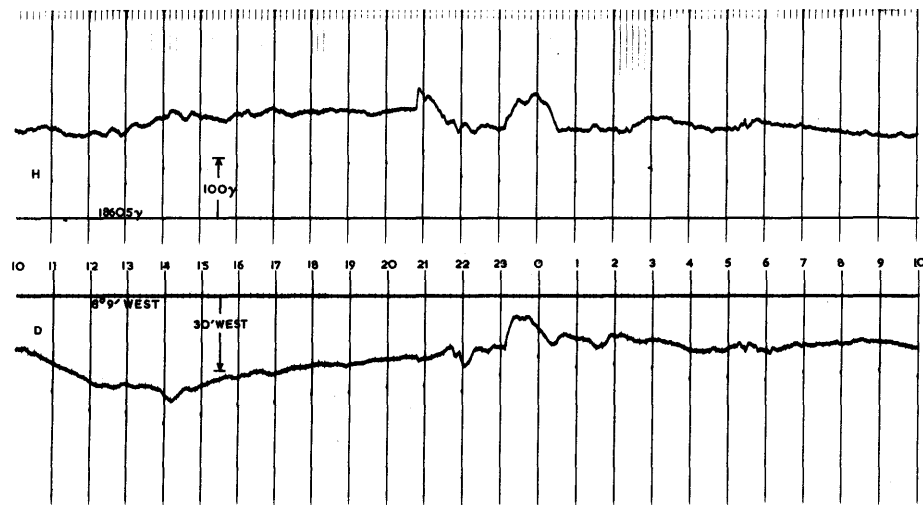


APRIL 13-14

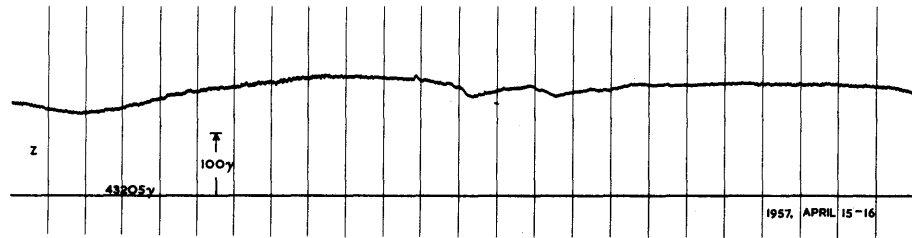


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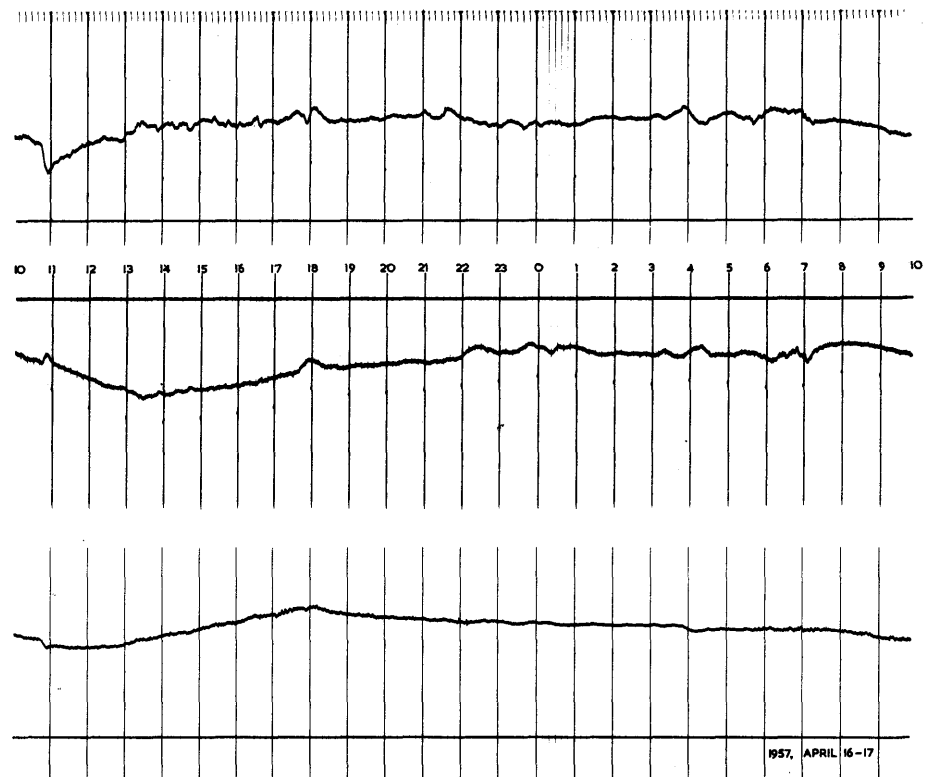
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APRIL 15-16



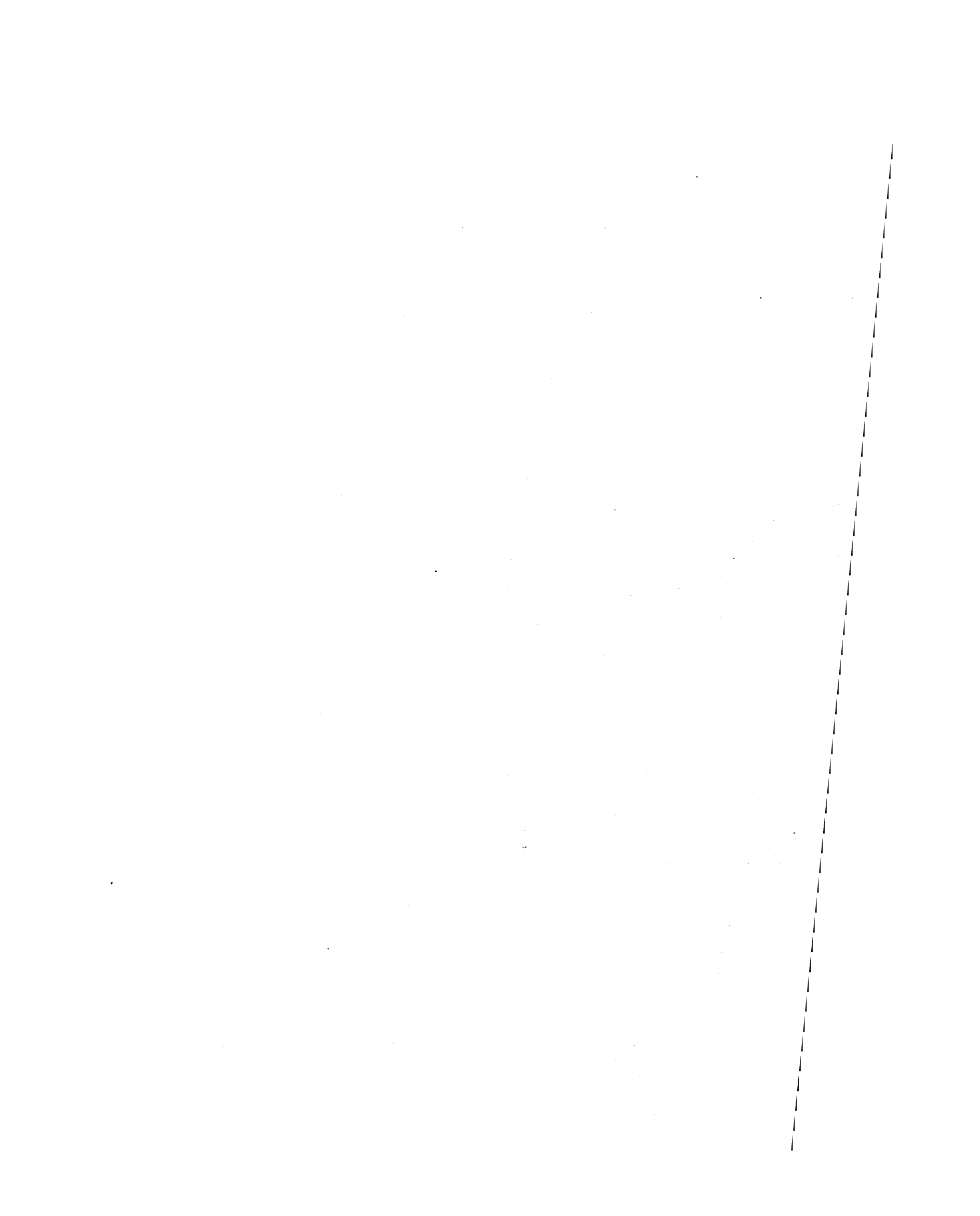
APRIL 16-17





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APRIL 17-18



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3. Time Service 1956 July-Sept.
4. Time Service 1956 Oct.-Dec.
5. Time Service 1957 Jan.-Mar.
6. Time Service 1957 Apr.-June
7. Time Service 1957 July-Sept.
8. Time Service 1957 Oct.-Dec.
9. Time Service 1958 Jan.-Mar.
10. Time Service 1958 Apr.-June
11. Photographic Zenith Tube 1958
12. Time Service 1958 July-Sept.
13. Time Service 1958 Oct.-Dec.
14. Photoheliographic Results 1956
15. Time Service 1959 Jan.-Mar.
16. Time Service 1959 Apr.-June
17. Magnetic Results 1956 (Abinger)
18. Photographic Zenith Tube 1959
19. Time Service 1959 July-Sept.
20. Time Service 1959 Oct.-Dec.

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

