

**Riometer Record of 30 MHz Cosmic Noise
at Syowa Station, Antarctica in 1975**

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1. Introduction

Observations of cosmic radio noise with the standard riometer (relative ionospheric opacity meter) at 30 MHz have been carried out at Syowa Station, Antarctica since February of 1966 by members from the Radio Research Laboratories.

This report has been prepared in order to make the data available to ionosphere physicists. The data records covering the period from January 1 to December 31, 1975 are deposited in the Radio Research Laboratories.

Inquiries about the contents of this report should be addressed to:

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Ministry of Posts and Telecommunications
2-1, Nukui-Kitamachi 4-chome, Koganei-shi
Tokyo 184, Japan

2. Location

Syowa Station			
Geographic		Geomagnetic	
Latitude	Longitude	Latitude	Longitude
69° 00' S	39° 35' E	69.6° S	77.1° E

3. Observers

In January 1975

Ichiro YAMAZAKI	(Radio Research Laboratories)
Isao SHIRO	(Radio Research Laboratories)

From February to December 1975

Hidetoshi SUGIUCHI (Radio Research Laboratories)

Noriaki KOMIYA (Radio Research Laboratories)

4. Method of measurement

The standard riometer, which is still in operation at Syowa Station, has a frequency of 30 MHz and a bandwidth of 3.5 kHz. It is connected to a vertically directed five-element Yagi antenna which is designed to match the 50 ohm coaxial transmission line (8D-2V) of 80 meters in length. The elements of the antenna are oriented in the east-west direction.

The noise power output is recorded by a strip chart recorder with a 1 mm/min chart speed, and noise power levels of 0, 1, 2, 3, and 4 dB (from a reference noise diode) are introduced into the receiver once a day for calibration.

5. Remarks

The noise power measured by a riometer is not identical with the cosmic noise power itself because of ionospheric absorption. If the ionosphere is in a quiet state the diurnal variation of the cosmic noise power is easily extracted from the chart recordings. However, several complications can occur because of the seasonal, diurnal and abnormal short-term variations in ionospheric absorption.

On account of the rotation of the earth, there is a difference between solar and sidereal time. Therefore the time (local time) when the same radio source passes the zenith gets earlier by about 4 minutes each day and returns to its initial state in a year.

Ionospheric absorption data obtained by means of the riometer method are given in the C.N.A. tables, where the cosmic noise absorption is defined by the deviation of the cosmic noise from its monthly reference level. The reference level is calculated from selected quiet diurnal variations in the month. The hourly values of the cosmic noise absorption are shown in dBm.

References

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Table 1. 30 MHz cosmic noise absorption at the first minute of each hour.

SYOWA STATION				45° EAST MERIDIAN TIME (U.T.+3 hours)														January 1975						
DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1				0.2	0.3			0.3	0.2															
* 2				0.2	0.4	0.5	0.5	0.3	0.1									0.1		0.4		0.1		0.1
3		0.1																						0.3
4					0.3	0.2		0.3	0.3			0.2	0.2			0.7	0.4		0.2			0.1	0.2	
5		0.7	0.7	0.2	0.2	0.5	0.8	1.2	1.2	0.6	2.4	1.6	0.8	1.2	1.6	0.2	0.7	1.4	0.5					
6				0.8	0.8	0.3			0.2								2.9	0.8	0.2	1.5	0.2	0.9	0.2	2.0
7	1.0	0.8	0.8		2.0	1.1	0.2	0.2			1.0	1.5	1.6	0.8	0.2	0.2	0.1	0.2	0.2		0.2	0.3		
8								0.3	1.0	0.5		0.2	1.7	1.1	0.2									0.2
9				0.1					0.2	0.1	0.2		0.2	0.4	0.3			0.2						
10			0.2	0.2			0.2					0.5	0.7	0.6	0.8	0.4	0.5		0.2		0.2	0.2		
				0.2														0.1	0.2			0.1	0.1	
* 11																								
* 12																								
13		0.1				0.8			0.5	0.3			0.5	0.3		0.2			0.5	0.2				0.2
14	0.1		0.2	0.4			0.4	0.4	0.1	0.2	0.2	1.2	1.2	0.5			0.4	0.2	0.1			0.2	0.2	1.1
15	0.5	0.2	0.1	0.5	0.3	0.7			0.4	0.3	0.1	0.6	0.3		0.1	0.2	0.2		0.2	0.2	0.1	0.3	0.3	0.1
16		0.2	0.1	0.6	0.2	0.3	0.5	0.4	0.4	0.3						0.3				0.2	0.1	0.1	0.2	
17	0.3	1.7	1.0	0.1	0.6				1.1	0.1	0.2	0.4	1.8	0.9	0.8	0.1	1.3	1.0					0.4	
18	2.0	0.7	0.3	0.5		0.7	0.2	0.2	0.6	0.3				0.3	1.3	0.9	0.4		0.9	0.4				0.1
19	0.3	0.7	0.1	0.7	0.6	0.6	0.5		0.2		0.3	0.7	0.2	0.2	0.1	1.9	0.8	0.3		0.1			0.1	
20			1.6		0.4	0.6			0.1	0.2	0.4	0.3	0.3	0.4	0.4								0.4	
21	1.8		0.1									0.1		0.2					0.1	0.3				
22												0.2	0.1	0.4	0.4	0.1	0.1				0.1			
23												0.3	0.2	0.5	0.4	0.2	0.1		0.2					
24		0.2						0.4				0.2	0.2	0.6		0.3	0.1							
* 25													0.1	0.1							0.1			
* 26	0.2											0.1	0.2	0.1										
27									0.2		0.3	0.3	0.7	2.3	2.3	1.0	0.2							
28												0.3	0.7	0.6	0.4	0.1	0.2	0.1	0.3					
29			0.1	0.5			0.3	0.2			0.3	0.4	0.5	0.5	0.4	0.5	0.3	0.4	0.4	0.2				
30											0.2	0.6	0.8	0.7	0.5	0.3	0.2	0.2	0.3	0.2				
31			0.2					C	C	C	0.3	0.4	0.4	0.5	0.4	0.2	0.3	0.4	0.4	0.5	0.2	0.4		
Mean	0.20	0.17	0.18	0.17	0.20	0.19	0.10	0.14	0.22	0.09	0.19	0.32	0.42	0.37	0.34	0.29	0.32	0.19	0.15	0.14	0.03	0.08	0.07	0.13

Open spaces without figures correspond to quiet level.

* : Quiet day

C : Failure of equipment

SYOWA STATION

45° EAST MERIDIAN TIME (U.T.+3 hours)

February 1975

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0.4	0.4	0.2	0.1			0.1	0.1	1.7	1.2	0.6	0.8	1.8	1.0	0.8	0.4	1.2	0.4	0.2	0.1		0.2	0.2	0.2
2		0.2		1.2	0.7	1.1	0.6	1.2		0.2	0.5	1.7	0.9	0.8	2.8	1.2	0.5	0.5						
3		0.1	0.6	0.6	1.0	0.2	0.8	1.5	0.9	0.4	0.5	0.7	0.9	0.8	0.4	0.1	0.3	0.1	1.3	0.7	0.4	0.5	1.3	1.0
* 4	0.1				0.2	0.7			0.2	0.7	0.5	0.5	0.3	0.7	0.7	0.2								
5				0.2	0.2		1.0			0.2	0.4	1.1	1.0	0.8	0.9	1.0	1.7	0.7	1.0	0.5	0.4	0.3		
6			0.7	0.1	0.4			0.1	0.5	0.4	0.6	0.7	1.2	1.1	0.5	0.3	0.3	0.2						
7			0.2	0.2		0.3	0.4	0.4	0.2	1.3	1.3	0.8	0.9	1.4	1.3	1.0	0.7	0.7	0.4	0.2		0.1		
8	0.2				0.1		0.3	0.4	0.4	0.4	0.5	0.5	1.2	0.8	0.5	0.8	0.5	0.3	0.2	0.1				
9						0.5	0.2		0.4	0.4	0.6	0.6	0.6	0.5	0.3	0.2	0.1	0.1						
10				0.3				0.1	0.6	1.5	1.3	1.3	1.3	1.0	0.5	0.3	0.3	0.1						
11		0.4	1.2	1.2		3.0	0.7	0.4	0.7	0.8	2.0	1.9	1.7	0.9	0.9	0.8	0.4	0.3		0.2				
12		0.7			0.5	1.5	0.2		0.5	1.1	2.3	2.2	2.7	2.7	2.0	4.3	0.5	0.3	0.3	0.2				0.2
13	0.2	0.2	0.2	0.7	1.8	1.7	2.0	0.4	0.8	0.8	2.0	1.3	1.3	1.5	1.2	0.8	0.7	0.3	0.2	0.1				1.0
14	0.2	1.2	0.3	0.7	0.6		1.0	1.0	1.4	1.1	1.0	1.2	2.7	1.8	1.2	1.6	1.3	1.0	0.5	0.3	0.8	0.2		0.3
15	0.7	0.4	1.2	0.5	0.9	0.3	0.3	0.2	1.5	2.7	1.5	1.5	2.0	1.8	1.0	1.0	1.2	0.4	0.4	1.0		0.1		
16		1.3	0.4	0.1		0.9	0.4			1.7	1.7	3.8	1.7	1.3	1.7	1.3	1.3	0.5	0.2	0.5	0.2	0.2	0.3	
17		0.2	0.5	0.4	0.9			0.4	0.8	0.8	2.3	1.6	1.7	1.4	1.2	0.7	0.5	0.3	0.2	0.3	0.1	0.2		
18			0.1			1.7	0.7	0.8	1.2	1.7	1.2	1.3	1.6	1.3	0.9	0.6	0.2	0.9	0.5	0.2				
19	0.1	0.3					0.1	0.3	1.5	1.1	1.0	1.1	1.8	2.0	1.7	1.5	1.2	0.8	0.1	0.2				
20					0.8		C	C	C	C	C	0.9	0.9	1.3	0.9	0.7	0.8	0.4	0.2					
21						0.1		0.3	0.5	0.5	1.0	1.1	1.3	1.4	0.5	0.5	0.3							
22										0.4	0.8	1.0	1.0	0.9	0.6	0.3	0.2	0.1						
23										0.5	1.7	1.6	1.3	1.2	0.6	0.9	0.6	0.3						
24									0.3	0.9	1.0	1.0	0.9	1.0	0.5	0.4	0.2	0.6	0.8					
25						0.4			0.9	3.5	1.8	1.2	1.8	1.6	1.2	1.4	0.5	1.0	0.5					
26							0.2	0.5	0.1	0.6	0.9	1.2	1.1	1.2	0.7	0.5	0.4	0.3	0.3	0.2				
27									0.5	1.2	2.2	1.9	1.7	1.3	0.8	0.6	0.5	0.3		0.2				
28								0.2	0.3	0.8	1.0	1.2	1.3	1.3	0.9	0.6	0.3	0.1						
Mean	0.07	0.19	0.20	0.23	0.29	0.44	0.32	0.29	0.55	0.93	1.16	1.28	1.38	1.24	0.97	0.86	0.60	0.39	0.26	0.18	0.07	0.06	0.06	0.10

Open spaces without figures correspond to quiet level.

* : Quiet day

C : Failure of equipment

SYOWA STATION

45° EAST MERIDIAN TIME (U.T.+3 hours)

March 1975

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1					0.1	0.1	0.6	0.1		0.1	0.2	0.8	0.3		0.4	0.8	1.0	0.5	0.4					
2	0.1	0.6			0.7	1.8	0.4			0.6	0.9													
3		0.1		0.2	0.9	0.2				0.1	0.3			0.2	0.1									
4			0.2			0.1	0.3	0.7			0.1	0.2	0.2	0.1										
5				0.1	0.1	0.1	0.9	2.0	1.4	0.9	0.4	1.8	2.7	0.6	2.4	2.8	2.1	0.6	0.8			C	0.1	0.3
6	C	0.4	1.0	0.1	0.4	0.5	0.6	0.8	0.5	0.2	0.3	0.8	0.5	1.5	1.3	2.1	1.7	0.7	0.2					
7																			0.2	0.1	0.2			C
8								0.2	0.1	0.1	0.1								0.2					
9								0.2	0.6	0.5	0.3							C	C					
10			0.2	1.0	2.0	0.2		0.1	0.2	0.2	0.3	0.6	0.3	1.0	1.3	0.1	0.1				C	C	3.5	3.5
11			1.3	0.1		2.4	4.5	1.6	0.3	1.8	1.2	2.5	2.6	1.5	1.3	1.2	0.9	0.3						
12		3.1		1.1	1.1	0.1	3.4	1.6	0.2	0.9		1.2	1.6	0.9	1.9	1.4	0.6	0.3	0.1			0.1	0.2	0.3
13	0.7	0.2	2.5	1.3	1.3		1.6	0.5	0.2	0.3	0.7	0.6	0.3	2.0	0.9	1.0	1.0	1.1	1.0			0.1	0.2	
14		0.4	1.2	0.4	0.1		0.5			1.3	0.3	0.2	0.8	0.6	0.2	2.1	0.6	1.1	0.6			0.1		0.4
15	0.2	2.8	0.3	0.3	0.2	1.2	0.5	1.2	1.0	0.9	1.2	0.6	1.3	1.5	C	C	C	C	C	C	C	C	C	C
16	C	C	C	C	C	C	C	C	C	C	C	C	C	C	2.0	1.2	3.1	1.7	0.8	1.1	0.2	0.4	0.3	0.2
17	0.1		0.5	0.4	C	C	C	C	C	C	C	C	C	C	0.6	0.6	C	C	C	C	C	C	C	C
18			0.1	0.5	0.8		0.1				0.7	0.4	1.2	0.2		0.2	1.0	0.8	0.1	0.1	0.1	0.2	0.1	
19		1.0	0.1	0.4	0.5	0.4	0.5	0.4	0.5	0.6	0.5	0.3	0.9	0.3	0.3	0.5	0.3	0.2	0.9	0.5	0.3	0.3	0.3	0.3
20	0.1	1.1	0.8	0.4	0.5	0.5	0.4	0.3	0.2	1.1	0.8	0.5	0.3	0.6	0.8	0.6	0.5	0.6	0.4	0.5	0.5	0.5	0.6	0.7
21			1.0	1.3	0.5	0.2	0.1											0.1	0.2	0.2	0.2	0.2	0.3	0.4
22											0.2	0.2	0.3	0.6	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3
23			0.2	0.6	0.2	0.1	0.5	0.3	0.2		0.2	1.0	0.7			0.6	0.7	0.2		0.1				
24					0.1										0.6		0.6			0.1				
25	0.1						0.1	0.1		0.2		0.2	0.2	0.2	0.3	0.2	0.4	0.6	0.3	0.2				
26							0.2	0.3							0.3	2.3	1.7	0.5						
27				0.3	0.2	0.4	0.3	0.5	0.9	0.8	0.4	0.3	0.2	0.2	0.2	0.3			0.2	0.1		0.1	0.3	
28	0.1	0.1	0.4	0.4	0.2		0.3	0.5	1.9	0.8	0.3	4.6	2.8	1.7	1.6	0.6		0.3	0.1					0.1
29	0.5	0.2	0.9	0.2	0.1	0.1	0.1	1.3	0.3	3.4	2.5	1.8	1.2	2.0	1.3	1.2	1.4	1.3	0.3	1.1				
30			0.2	0.5	0.7	0.4	0.5	0.7	0.5	0.5	0.6	0.8	1.3	0.6	0.5	1.1	1.8	1.2	1.3	0.5	0.6	0.6	0.2	
31				1.9	0.3	0.9	1.4	1.7	0.7	1.2	1.4	1.2	1.1	1.1	0.9	0.8	0.8	0.7	0.4	0.4	0.8	0.7	0.8	0.8
Mean	0.06	0.32	0.35	0.36	0.36	0.31	0.57	0.49	0.31	0.53	0.44	0.66	0.67	0.56	0.62	0.70	0.66	0.42	0.27	0.17	0.10	0.12	0.23	0.24

Open spaces without figures correspond to quiet level.

* : quiet day

C : Failure of equipment

SYOWA STATION

45° EAST MERIDIAN TIME (U.T.+3 hours)

April 1975

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0.4	0.4	0.3	0.9	0.6	0.4	0.2	0.1	0.1			0.9	0.6	0.5	0.5							0.1	0.1	
* 2		0.1			0.3			0.1											0.4			0.2	0.1	
3	0.3	0.2	0.4	0.2	0.5	1.1	0.5	0.3					0.2	0.1								0.2	0.1	
4	0.7	0.5	0.4	0.4	0.2	0.1			0.1			0.1	0.2	0.6	0.7	0.7	0.5	0.5	0.6	0.6	0.4	0.5	0.4	0.4
5	0.5	0.4	0.7	0.2	1.1	0.2						0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.4	0.3	0.4
6	0.8	0.7	0.5	0.6	0.2	0.6	0.2				0.2	0.1	0.5	0.4	0.3	0.2	0.4	0.3	0.3	0.5	0.4	0.5	0.6	0.4
7	0.3	0.4	0.6	0.6	0.3	0.1					1.0	0.5	0.3	0.1			3.0	1.2	0.7	0.3	0.3	0.3	0.4	0.4
8	0.2	0.2	2.2	0.2	0.2			1.4	0.1	1.9	2.2	1.4	0.8	2.4	1.2	0.8	2.1	2.7	0.2	0.3	0.3	0.2	0.3	1.3
9	0.5	0.2	0.2	0.8	6.5	1.5	0.3	2.9	2.2	3.6	1.0	2.0	1.9	3.2	2.2	1.3	0.4	0.6	0.2	0.2	0.3	0.5	0.5	0.2
10	0.1	1.2	1.1	0.5	0.2	3.4	3.5	3.0	2.8	1.0	1.1	1.5	1.9	4.3	2.4	1.3	2.3	2.3	0.4	0.2	0.2	0.3	0.4	0.2
11	0.7	0.7	0.8	0.8	0.4	0.8	0.9	0.8	3.3	1.4	1.6	2.4	1.8	1.7	2.7	0.4	3.4	0.6	0.6	0.5	0.6	0.7	0.8	0.9
12	1.1	0.9	0.8	1.3	1.1	1.3	1.0	0.5	0.5	1.6	1.8	1.5	1.2	6.2	6.2	5.3	3.9	0.7	1.9	0.6	0.6	0.6	0.6	0.6
13	1.2	2.5	3.2	1.2	0.8	0.5	1.4	0.5	1.3	1.9	3.2	6.5	2.3	2.1	1.1	1.3	1.0	0.9	2.3	1.4	1.0	0.6	0.3	0.4
14	0.3	0.3	1.8	1.2	0.2	2.5	1.5	1.2	2.3	3.5	0.7	0.4	0.2	0.2	1.2	0.3	0.8	0.7	0.3	0.2	0.2	0.2	0.2	0.2
15	0.1	0.4	0.2	0.4	0.2	0.4	0.2			0.2					0.1	0.2	0.3							
16		0.3	0.2	0.6	0.3	0.2	0.2	0.3	0.2			0.1	0.5	1.1	0.3	0.2	0.2	0.1	0.2					0.3
* 17														0.2	0.2	0.3	0.1	0.1				0.3	0.2	0.1
18							0.1	0.1	0.5	0.5	0.1	0.1	0.2				0.3	0.1	0.3	0.1				
* 19			0.3	0.4	0.2	0.3			0.3	0.4	0.2			0.1			0.1	0.1	0.4	0.4	0.2			
20				0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1		0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.5	0.3	0.8
21	0.7	0.3	0.3	0.4	0.5	1.1	0.8	0.7	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.2			0.1	0.1	0.2	0.2	0.3	0.2
22	0.1	0.7	0.3	0.3	0.6	0.4	0.5	0.5	0.4	2.3	1.1	0.8	1.3	0.5	0.6	0.3			0.5	0.5	0.3			
23	0.2	0.7	0.6	0.2	0.7	2.6	1.0	0.5	1.3	2.3	1.2	2.0	1.4	1.1	6.2	3.2	3.4	1.1	0.3		0.2			
24	0.1		0.4	1.0	2.7	1.0	1.0	1.6	0.6	0.6	2.0	2.1	1.2	0.6	5.2	2.4	2.4	0.7	0.3	0.3	0.2	0.3	0.1	
25		0.1	0.3	0.6	0.6	0.4	0.4	1.0	1.1	0.5	0.3	0.1	0.2	2.0	1.1	0.5	0.2		0.4	0.2	0.1	0.4	0.4	0.2
26				1.0	1.1	0.5	0.4	0.4	0.2	0.2						0.3	0.3	0.1	0.1	0.1				
27			0.2					0.7	0.8	0.5	0.3				0.3	0.2	0.3	0.2	0.1				0.1	0.1
28		0.1	0.1	0.4	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3				0.1	0.1	0.1	0.2	0.2	0.2	0.2
* 29																								
30							0.1	0.1		0.2	0.5	0.5	1.0	1.1	0.1	0.1								
Mean	0.28	0.38	0.53	0.47	0.67	0.67	0.49	0.57	0.64	0.78	0.64	0.79	0.63	0.98	1.11	0.67	0.86	0.45	0.37	0.23	0.21	0.23	0.22	0.24

Open spaces without figures correspond to quiet level.

* : Quiet day

SYOWA STATION

45° EAST MERIDIAN TIME (U.T.+3 hours)

May 1975

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0.3	0.3	0.1									0.6	0.2	0.2	0.1	0.1	0.2	0.1	0.3	0.3	0.4	0.2	0.3	0.4
2	0.7	0.7	0.8	0.9	0.5	0.7	0.6	0.7	0.9	2.2	0.5	1.4	1.2	1.3	1.4	1.0	0.7	1.0	0.8	0.7	0.6	0.6	0.6	0.7
3	0.9	1.0	0.7	1.2	1.2	1.3	2.2	2.7	1.2	2.7	2.0	0.5	0.8	0.8	0.3	0.3	1.3	0.3	0.5	0.4	0.5	0.4	0.5	0.4
4	0.7	0.3	0.8	1.8	0.2	0.1	0.4	0.6	0.2	3.1	1.2	2.3	2.3	1.4	0.9	0.9	0.8	1.5	1.0	0.7	0.6	0.4	0.4	0.4
5	1.0	0.6	0.5	2.0	1.8	0.7	0.6	1.1	0.5	1.1	1.0	4.3	2.2	1.4	1.3	0.8	0.6	0.7	0.5	0.4	0.3	0.3	0.6	0.5
6	3.1	2.0	1.0		4.3		1.5	2.2	1.3	1.1	1.5	5.8	2.2	2.8	2.3	1.1	0.9	0.8	0.5	0.2	0.2	0.1	0.2	0.9
7	0.6	1.7	0.5	0.4	0.8	0.7	0.5	0.4	0.7	0.3	0.4	0.9	1.8	0.8	1.3	0.8	1.3	0.3	0.1		0.1	0.2	0.2	
8	0.3	1.7	0.4	1.8	0.3	0.1	1.0	0.2	1.0	0.7	1.5	0.3	0.5	0.3	0.5	0.7	0.5	0.5	0.3	0.1	0.2	0.1	0.4	
9	1.6	0.2	0.3	1.8	0.2	1.0	0.9	0.3			1.1	1.5	1.8	0.4	2.4	2.0	1.1	0.1		0.7	0.3	0.1	0.1	0.2
10	0.4	0.1	0.4	0.2	1.0	0.5	2.6	2.7	1.3	1.2	1.9	2.5	5.8	2.8	1.9	0.7	0.6	0.7	1.3	0.1			0.1	0.3
* 11	0.3	0.9	0.2																					
12	0.1									0.4	1.0	0.9	0.5	0.3	0.1	0.3	0.3	0.3	0.1	0.1				
13	0.2	0.1	0.1		0.1	0.1	0.1	0.3	0.3	0.1					0.1	0.4	0.4	0.2					0.1	
14	0.3	0.5	0.1	0.5	0.2	0.1	1.7	1.3	0.7	0.7	0.3	0.3	0.4	1.2	1.1	1.5	1.2	0.6	0.2	0.1				0.2
* 15	0.5	0.5	0.3							0.2	0.3		0.1											
16	0.1					0.1	0.3	1.7	1.4	0.2	0.4	0.9	1.0	0.3	0.1		0.1	0.4						
17	0.1		0.2	0.5	0.5	0.6	0.5	0.7	0.5	0.7	1.1	0.4	2.9	3.3	1.9	0.4	0.1	1.0	0.8	0.3		0.3		
18					0.3	0.2	1.0	0.8	0.6	1.1	0.7	1.7	1.8	0.9	1.2	1.5	0.8	0.2	1.0	0.3	0.2			
19		0.7	0.1		1.1	1.3	0.8	0.3	0.7	0.6	0.3	0.3	0.5	0.8	1.4	0.9	0.6	0.7	0.6	0.5	0.5	0.4	0.5	0.4
20	0.4	0.5	0.6	0.5	0.8	0.6	0.5	0.6	0.5	1.1	6.6	1.6	1.1	1.4	2.6	1.4	0.6	0.7						
21					0.4	0.8	0.5	0.4	0.3	1.2	0.6		0.3	0.7	0.2		0.2	0.1	0.5	0.2	0.2	0.2	0.2	0.3
22	0.6	0.8	0.6	0.8	1.0	1.1	0.9	0.7	0.7	1.1	0.5	0.8	2.0	2.0	2.5	1.5	0.5			0.2	0.1			
23		0.1	0.9	0.5	0.4	0.4	0.4	0.2	0.1	2.3	2.3	0.4		0.5	1.3		0.6	0.5	0.2					
24				0.1	0.4	0.5	0.3	0.5	0.4	0.4	0.4	1.5	1.3	0.8	0.5	1.1	0.9	0.7	0.4	0.3	0.2			
25	0.1	0.1	0.4	0.5	1.3	1.5	2.7	1.1	0.9	0.9	1.0	1.0	1.2	0.9	0.6	0.7	0.6	0.7	0.5	0.6	0.5	0.5	0.7	0.7
26	0.9	1.3	0.8	0.8	1.5	2.7	2.2	1.3	2.8	3.2	3.4	4.3	3.4	2.3	2.3	2.6	1.4	1.0	0.7	0.6	0.7	0.7	0.7	0.6
27	0.5	0.6	0.6	0.6	0.9	1.0	0.8	0.7	0.6	0.7	0.7	0.9	0.9	0.3	0.3	0.4	0.4	0.1	0.5					
* 28	0.1	0.1	0.4	0.7	0.5	0.7	0.6	1.0	0.3	0.3														
29			0.2	0.3	0.5	1.1	0.8	0.8	0.4	0.3	3.6	1.5	0.8	0.4	0.2									0.2
30	0.2	0.3	0.5	0.8	0.9	0.7	0.5	0.3	0.1	0.6	2.0	0.4	0.3					0.1						
31	0.1		0.1	0.4	0.5	0.7	0.5	0.3	0.2	0.1	0.1	0.3	0.1	0.1										
Mean	0.45	0.49	0.37	0.55	0.70	0.62	0.82	0.77	0.60	0.92	1.17	1.20	1.21	0.92	0.93	0.68	0.54	0.43	0.35	0.22	0.18	0.14	0.17	0.22

Open spaces without figures correspond to quiet level.

* : Quiet day

SYOWA STATION

45° EAST MERIDIAN TIME (U.T.+3 hours)

June 1975

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
* 1					0.2								0.1	6.5	4.5	2.4	0.1	0.9	0.5		0.1	0.1	0.1	0.5
2	0.1				1.6			0.4		0.8	0.2	1.2	4.5	1.4	1.1	0.6	0.1	0.8	0.2	0.3	0.2		0.1	
3	0.3	0.6	0.2	0.8	1.8				0.2	0.1	1.4	2.1	2.9	1.4	1.1	0.6	0.3	2.9	0.6	0.4	0.5	0.3		
4		0.2	2.0	1.8	0.2	1.2	0.4	1.0		2.5	0.4	3.5	3.0	1.0	2.5	1.4	0.9	0.3				0.5		
5	0.7	0.2	0.2	0.2	0.9	0.1			2.1	0.1	0.2	0.1	0.7	2.0	0.2	0.1	0.6	0.2	0.7	0.3	0.4			
6	0.9	0.4	0.1	0.5	0.5	1.0	0.7	0.4	1.3	3.0	0.8	0.2	3.5	1.6	1.6	0.7	0.1	1.4		0.3	0.3			
7			0.4	0.1						0.1	0.5	0.5	1.3	0.8	0.3									
* 8																		0.1						
* 9							0.3	0.1																
* 10														0.1	0.1									
11		0.1	0.2	0.9	0.3	0.2		0.1	0.1	0.5	0.4	0.3	1.4	2.1	0.6	0.8	1.1	0.9	1.0	1.0	1.5	0.9	1.0	1.9
12	2.1	2.9	2.7	3.3	2.7	2.5	2.4	3.1	2.5	2.1	2.3	2.9	2.6	2.0	2.1	2.4	2.5	3.2	2.2	1.7	1.8	1.9	2.1	2.2
13	2.6	2.3	2.4	2.4	2.3	2.6	2.0	1.7	2.6	3.5	3.0	2.5	5.0	3.0	2.2	1.8	1.5	2.7	1.5	1.7	1.5	1.4	1.6	1.4
14	1.2	1.4	1.3	1.3	1.2	0.6	0.5	0.4	0.5	0.5	2.5	2.4	1.6	0.9	1.7	0.3	0.6	1.0	1.0	0.6	0.8	0.3		0.1
15	0.1	0.2	0.3	0.3	0.4	0.4	0.3	0.2	0.1	0.4	0.3	0.3	0.4	3.3	1.0	0.6	0.3	0.3		0.1	0.5			
16	0.3	0.3	0.5	0.7	0.7	0.1	1.0	0.6	0.5	0.5	1.1	0.8	0.1	1.7	3.1	2.9	1.6	0.8	0.5		0.5			0.2
17	0.3	1.0	2.1	1.4	1.8	1.6	1.8	1.3	1.3	1.4	1.4	2.1	2.0	2.4	2.6	1.5	1.4	1.7	1.4	1.1	1.1	0.9	0.8	1.0
18	1.1	1.3	1.5	1.3	2.7	1.5	1.4	2.5	1.8	3.1	2.2	1.4	0.6	0.6	0.5	0.5	0.6	0.7	0.6	1.6	1.7	0.8	0.7	0.8
19	0.8	1.0	0.9	1.3	1.8	0.8	0.8	0.7	0.5	0.6	2.7	2.2	4.0	2.4	1.2	1.0	2.0	0.7	0.7	0.3	0.1	0.1		0.1
20	0.3	0.7	0.7	1.0	1.0	0.8	0.9	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.6	0.9	0.8	0.5	0.5	0.5	0.3	0.4
21	0.7	0.7	0.7	0.8	0.8	0.4	1.0	0.7	0.3	0.3	0.2	0.2	0.6	1.5	0.9	0.5	0.5	0.3	0.2			0.1	0.3	0.4
22	0.7	1.0	1.3	1.7	1.6	1.2	0.9	1.1	1.0	1.7	1.1	0.8	1.2	1.0	1.2	1.3	0.9	1.0	0.9	1.0	1.0	1.1	1.0	
23	1.1	1.4	1.4	1.4	1.3	0.9	0.9	0.9	1.1	1.1	1.0	0.9	0.7	0.4	0.3	0.5	0.6	0.8	0.7	0.7	0.8	0.8	0.6	0.9
24	1.1	1.2	1.3	1.4	1.3	0.9	0.8	0.5	0.4	0.3	0.3	0.2	0.2		0.1	0.1	0.1	0.2				0.1	0.3	
25	0.5	0.7	0.9	0.9	0.9	0.5	0.5	0.5	0.3	0.4	0.2	0.1												
26	0.5	0.4	0.8	1.3	1.1	0.7	0.5	0.5	1.5	0.2	0.1							0.1						
27	0.2	0.4	0.5	0.6	0.5	0.3	0.3	0.3	0.2	0.5	0.3	0.1												
* 28	0.1	0.4	0.7	0.8	0.6	0.2	0.1	0.1				0.4	0.2											
29	0.2	0.5	0.6	0.8	0.8	0.2	0.3	0.2	0.1	0.3	0.5	0.1												
30	0.9	0.6	0.7	0.8	2.6	0.6	0.9	0.5	1.3	0.4	2.5	3.0	2.5	0.7	1.2	0.8	1.0	0.3						
Mean	0.56	0.66	0.81	0.93	1.05	0.64	0.62	0.61	0.67	0.83	0.87	0.96	1.32	1.20	0.98	0.68	0.58	0.74	0.45	0.39	0.44	0.32	0.29	0.37

Open spaces without figures correspond to quiet level.

* : Quiet day

SYOWA STATION

45° EAST MERIDIAN TIME (U.T.+3 hours)

July 1975

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0.3	1.0	0.7	0.5	1.1	0.6	0.5	0.7	0.2	0.4	3.5	1.5	0.5	>7.0	4.1	2.1	0.6	0.3	0.3	0.2	0.5	0.3	0.1	0.4
2			0.3	0.4		0.1	0.6	0.3	0.2	0.1								0.1	0.1	0.5	0.3			
* 3		0.1	0.1	0.5	0.6	0.2	0.1	0.1	0.1	0.4	0.4	0.1	1.3	0.5	0.2	0.1	0.4	0.3	0.2	0.3	0.1			
4			0.1		0.2		0.1									0.1								
5	0.4	0.6	0.5	0.4	0.1						1.1	1.7	0.5	0.5	0.2		0.1		0.1	0.2				
* 6	0.1	0.1	0.1																					0.1
7	0.1	0.1		0.3	1.0	0.7	0.1	0.1									0.6	0.2	0.4	0.1			0.2	0.2
8	0.2	0.4	0.3	0.2	0.1	0.3	0.5	1.6	0.2	0.3	3.4	1.4	0.7	0.9	1.9	2.6	3.9	0.9						
9	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.6	1.1	0.3	0.3	0.1	5.1	4.4	2.3	0.3		0.4					
10	0.2	0.3	0.4	0.3	0.1				0.6	1.9	0.4	2.0	1.7	3.0	0.6	0.4	0.2	1.0	1.9	0.8				
11	0.2	0.3	4.0	0.8	1.0	0.8	0.6	0.5	1.2	0.4	2.1	3.6	2.1	0.6	0.3	0.1	3.0	0.5		0.1				
* 12	0.1	0.2	0.2	0.1						0.1		0.1	0.1	0.3	0.3	0.1								
13	0.1	0.2	0.2	0.1					0.1	0.1	0.3	0.5				0.2		0.3	1.1			0.5	0.3	
14	0.3	0.4	1.1	0.3	0.4	0.3	0.6	0.3	0.1	1.5	2.3	0.6	0.2	0.2		1.3	1.1	0.3	0.1	0.3		0.4	0.2	0.3
15			0.3		0.3	0.8	0.5	0.1	0.5	0.6	0.7	2.7	1.4	0.8	0.1	1.4	3.2	2.1	1.0	0.8				
16		0.1	0.2	0.1		0.8	1.2	0.1	0.1	1.2	1.0	1.4	0.8	0.3	1.6	1.8	1.6	1.6	1.4	0.6	0.6	0.1		
17						0.1	0.1	0.1	0.1	0.2	1.3	1.7	1.0	1.0	0.3		2.3	0.8	1.0	0.7	0.2			
18			0.3	1.2						0.7	1.6	0.9	0.1	4.2	3.2	1.4	2.5	0.8	0.2					
19	0.1		0.1		0.2	0.3	0.2	0.4	0.3	1.9	2.2	0.3	0.1	0.1		0.2	0.5	0.5	0.9	0.3				
20			0.3	0.3	0.2	0.3	0.1				0.3	0.2	1.9	0.7	0.7	0.5	0.3	0.2	0.2	0.3	0.1			
21			0.1	0.1							0.2	0.1				0.3	0.5	0.5	0.6	0.7	0.3	0.1		
* 22		0.2		0.1					0.1	0.4	1.2	0.6	0.1	0.2		0.3	0.2	0.1	0.1	0.3				0.1
23						0.1		0.8	0.1	0.4	0.3	0.1												
24			0.1	0.2	1.1	0.1					0.7	0.3				0.2	0.3	0.1	0.1				c	c
25	c		0.2	0.1			0.1	0.2	0.3	2.1		0.4	4.4	1.5	0.3	0.3								
26		0.5	0.2	0.1		0.9		1.0	0.5	0.4	0.2	0.7	0.9	2.5	1.5	0.9	0.3	0.2	0.4	0.8	0.4	0.3	0.2	
27	0.3	0.3	0.3	0.6	0.4	0.4	1.7	1.2	0.4	1.5	0.5	0.7	1.8	0.9	0.7	1.3	0.5	0.5	0.4	0.3	0.3	0.2	0.1	
28	0.1	0.5	0.3	0.3	0.1	0.6	0.3	0.7	0.3	0.4	0.8	0.7	0.2	0.5	0.8	0.4	1.5	1.0	0.5	0.2				
29	0.1						0.4					0.1	0.3	0.2			0.2	0.1	0.8	0.6	0.4	0.2	0.1	
* 30			0.1	0.2			0.2	0.4	1.1	0.2	0.1	0.1	0.1	0.2	0.6	0.4	0.3	0.1				0.1		
31						0.1																		
Mean	0.09	0.17	0.35	0.24	0.03	0.25	0.26	0.28	0.23	0.53	0.71	0.80	0.67	1.01	0.71	0.60	0.79	0.40	0.39	0.26	0.10	0.07	0.04	0.04

Open spaces without figures correspond to quiet level.

* : Quiet day

SYOWA STATION

45° EAST MERIDIAN TIME (U.T.+3 hours)

August 1975

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1		0.1	0.1	0.3		0.2	0.2	0.3	0.5	0.5	0.4	0.8	0.5	0.5	S	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	
* 2	0.1	0.1	0.1				0.1	0.1	0.1	0.1	0.5	0.2	0.1	0.6	0.2	0.2	0.3	0.1				0.1		
* 3																								
4					0.1	0.7	0.1	0.1															0.1	0.1
5			0.1			0.6	0.3	0.2	0.5	1.8	4.4	2.0	1.3	1.3	0.8	3.2	1.7	0.3				0.1	0.1	0.3
6	0.2	0.2	0.2	0.1	1.6	0.5	0.5	0.3	0.4	2.6	2.3	1.0	3.2	2.8	2.1	1.7	1.3	0.8	0.4	0.3	0.2	0.3	0.3	0.4
7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2			0.3	0.2	0.2	0.3	0.4
8	0.5	0.3	0.5	0.2	1.2	0.6	0.7	1.5	2.2	2.7	0.9	1.5	1.6	2.8	1.9	1.2	1.1	0.3	0.1			0.1	0.2	0.2
9	0.2	0.4	0.3	0.1	0.4	0.1	0.2	0.2	0.1	0.1	0.1		1.2	2.7	1.3	0.8	0.4			0.1		0.2	0.3	0.2
10	0.3	0.3	0.2	0.5	0.4	0.1	0.2	0.5	0.4	0.4	0.7	1.3	2.0	1.3	4.4	3.6	1.3	0.3	0.1			0.1	0.2	0.3
11								0.1	0.4	1.2	0.6	0.5	0.6	S	0.8	1.0	0.6	0.7	1.4	0.7	0.5	0.4		
12					0.2	0.2	0.3	0.6	0.6	0.4	0.2	0.5	1.1	1.0	1.4	0.6	0.7	0.6	0.6	0.6	0.3	0.1		
13					0.1	0.1	0.1	0.3	0.2	0.4	0.4	0.5	0.6	0.9	1.5	1.3	1.7	1.4	1.1	0.5	0.3	0.2		
14	0.2	0.1	0.1	0.1	0.2	0.4	1.0	0.6	2.7	1.8	1.3	3.0	4.0	2.3	1.6	1.4	1.8	1.3	0.9	0.7	0.6	0.5	0.4	0.2
15	0.2	0.3	0.2	0.2	0.4	0.5	0.5	0.5	0.6	0.8	1.4	2.0	1.4	1.6	1.5	1.4	0.8	2.6	1.3	0.4	0.1	0.4	0.3	
16	0.6	0.1			0.1	0.1	0.2	0.2	0.2	0.2			0.1	0.8	0.1	0.3	0.8	0.2	0.1					
17						0.5	1.0	1.4	1.5	1.4	0.9	1.5	3.1	2.8	1.9	0.9	0.9	0.8	0.3	0.1	0.2	0.3		
18						0.1	0.2	0.2	0.2			0.9	0.6	2.3	2.6	1.0	1.0	1.4	0.6	0.5	0.1			
* 19				0.2	0.1	0.1								0.5		0.1	0.1	0.3	0.1	0.1	0.1			
20								0.1	0.2	0.3	0.1	0.2	0.2	1.1	0.5	0.3	0.1			0.3	0.2			
21			0.5	0.1	0.4		0.2	0.1	0.6	0.6	0.7	0.7	0.8	C	C	C	C	C	C	C	C	C	C	C
22	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	1.0	0.9	0.7	0.1	0.5	0.1	0.2	0.1	
23			0.6	0.3		0.6	1.0	1.0	0.2					0.8	0.6	0.2	2.3	1.1	0.4	0.2	0.1			0.1
24															0.1	0.6	0.1	0.2	0.1					
25		0.3	0.2	0.9	0.3		0.9	0.3	0.5		1.0	0.5	0.4	0.9	0.3	0.1	0.1				0.1	0.1	0.1	
26		0.2	0.3	0.1	0.6	0.2					0.1			0.3						0.1	0.1		0.1	0.1
27					0.6	0.6	1.0	0.6	0.3					0.3						0.1	0.1	0.1	0.2	C
28	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
29	0.3	0.2			0.7	0.5	0.3	0.1	1.5	0.3	0.4	1.9	0.6	1.9	2.0	0.6	0.3	1.0	0.3		0.1	0.2	0.2	0.2
30	0.1	0.2		0.3	0.1	0.2		0.1	2.1	1.2	0.9	1.1	1.2	0.5	2.0	1.3	0.6	0.3	0.2	0.1	0.2	0.3	0.3	0.2
31	0.1	0.1	0.2		0.1	0.1	0.1		0.5	0.2	0.4	0.1	0.1	0.1	0.6	0.5	0.3	0.5	0.2	0.2	0.2	0.5	0.3	0.3
Mean	0.10	0.10	0.12	0.12	0.25	0.23	0.30	0.31	0.54	0.55	0.57	0.65	0.80	1.00	0.92	0.77	0.64	0.48	0.27	0.19	0.12	0.13	0.12	0.11

Open spaces without figures correspond to quiet level.

* : Quiet day

C : Failure of equipment

SYOWA STATION					45° EAST MERIDIAN TIME (U.T.+3 hours)														September 1975					
DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
* 1									0.1	0.5	0.6	0.5	0.2	0.3	0.9		0.5	0.2			0.1			
* 2		0.1		0.2	0.1	0.4	0.3																	
* 3			0.1	0.2	0.1																			
* 4						0.1							0.2	0.1							0.1	0.1	0.1	
* 5										0.3	0.1			0.1							0.1	0.1		
6				0.1	0.5	0.5	0.1	0.1				0.7	0.2					0.6	0.5	0.1	0.1			
7			0.3	0.2	0.1	0.2	0.3		0.3				0.2	0.9	0.6	0.4	0.2		0.2	0.1	0.1	0.2	0.1	
8				0.4	0.2		0.1						0.1				0.1	0.2			0.6	0.2	0.1	
9		0.2		0.4	0.5	0.2	0.4	0.2	0.1	0.1	0.2	1.6	1.5	1.3	1.2	0.4	0.9	0.2	0.7	0.9	0.4	0.4	0.5	0.8
10	0.1		0.7	1.0	0.7	0.8	1.5	1.6	1.4	1.5	4.0	1.5	0.8	0.2	2.6	1.6	0.5	0.7	1.2	0.4	0.4	0.4	0.4	0.3
11		0.1			2.0	0.4	0.6	1.5	1.7	0.9	1.4	1.6	0.2	2.1	1.2	2.9	2.5	2.2	0.7	0.3	0.4	0.4	0.5	0.4
12	1.0	0.4	0.3	0.9	0.6	0.1	2.5	1.8	1.5	2.3	1.2	0.8	2.2	1.9	1.2	1.3	2.8	1.5	0.5	1.2	0.7	0.5	0.3	0.2
13	0.1	0.1	0.5	0.1	0.1	0.6	2.5	1.0	0.8	0.3	1.4	1.0	0.5	1.1	2.6	1.9	1.5	0.9	0.6	0.9	0.9	0.8	0.7	0.5
14		0.2	0.3	0.5	0.3	1.3	2.5	1.2	0.7	0.7	0.3	0.1	0.9	1.0	1.6			0.4	0.5	0.6	0.6	0.5	0.6	0.5
15				0.2	0.1		0.1	0.2	C	2.0	C	C	C	C	C	C		0.2	0.2	0.5	0.5			
16		0.2	0.1		0.4	0.3	0.3	0.3	0.3	1.8	0.8	0.7	0.4	0.6	0.5	0.9	0.3	0.1	0.2	0.4	0.4	0.3	0.1	
17	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
18	0.1	0.2	0.3	0.3	0.8	0.2	0.3	0.4	0.2	0.2	0.2	0.3	0.2	1.0	0.3	0.4	0.2							
19	0.2	0.2	0.3	0.3	0.2	0.3	0.6	0.3	0.3	0.3	0.9	0.9	1.0	1.2	0.7	1.0	0.6	0.6	1.6	1.1	0.1			
20				0.1	0.2	0.4	0.6	0.6	0.6	0.4	0.2	0.4	0.5	1.3	0.7	0.5	0.5	0.2						
21		0.1	0.1	0.4	0.2	0.5	0.6	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.2						
22					0.2	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4	0.3	0.1						
23		0.2		0.1	0.5	0.5	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.9	0.8	0.6	0.1					
24	0.1	0.1			0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.4	0.5	0.3	0.2	0.1					
25	0.1	0.2	0.1		0.1	0.3	0.5	1.0	0.7	0.9	0.8	0.6	0.5	0.4	0.4	0.4	0.3	0.2						
26			0.1	0.2	0.1	0.2	0.2	0.7	0.7	0.1	0.2	0.2	0.5	0.4	0.3	0.2	0.4	0.5	0.2					0.1
27	0.1	0.3		0.8	0.2	0.1	0.7	0.5	0.6	0.4	0.3	0.7	1.8	1.1	0.5	0.4	0.2	0.5	0.2			0.1	0.1	0.1
28	0.3	0.1			0.3	0.4	0.3		0.5	0.2	0.2	0.2	0.1	0.1	2.5	2.0	1.0	1.0	0.2					
* 29		0.1	0.3	0.3	0.3				0.3	0.3	1.3	0.8	0.6	0.7	0.6	0.7	0.6	0.5	0.5	0.4	0.2			
* 30													0.1										0.1	
Mean	0.07	0.09	0.12	0.24	0.30	0.25	0.52	0.42	0.39	0.47	0.51	0.47	0.47	0.58	0.67	0.57	0.39	0.39	0.27	0.23	0.19	0.13	0.12	0.10

Open spaces without figures correspond to quiet level.

* : Quiet day

C : Failure of equipment

SYOWA STATION

45° EAST MERIDIAN TIME (U.T.+3 hours)

October 1975

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1			0.3				0.5	0.3							0.1	0.1	0.1	0.1	0.1					
* 2			0.1	0.1		0.4	0.2																	
* 3					0.1									0.2	0.1									
4				0.1		0.5					0.1	0.6	0.6	0.3	0.3	0.2	0.2	0.1	0.3	0.1	0.1			
5	0.1	0.1	0.1	0.3	0.2			0.7	0.2	0.2	0.1	0.3	0.5	0.2	0.2	0.1	0.2	0.3	0.4	0.4	0.5	0.3	0.2	0.1
6		0.2	0.1	0.2	0.1		0.1	0.8	0.3	2.8	1.3	0.6	1.3	1.0	1.7	0.5	1.1	0.4	0.3	0.3	0.2	0.4	0.5	0.4
7	0.2	0.3	0.3	0.2	0.1	2.5	0.6	0.4	1.8	0.7	0.6	2.5	0.8	2.7	2.7	1.8	1.1	0.7	0.5	0.3	0.3	0.3	0.3	0.2
8		0.7	0.1	0.1	0.1	0.7	0.2	0.1	1.8	1.2	0.9	1.2	0.9	1.3	1.7	0.8	5.1	1.1	0.8	0.7	0.3	0.2	0.1	
9		0.5			0.5	0.4	0.5	0.8	1.7	2.7	2.9	2.9	4.8	2.4	3.0	3.4	3.1	2.0	1.3	0.7	0.6	0.2	0.2	0.5
10	0.4		1.8	1.0	1.4	1.7	0.8	1.8	3.5	3.1	2.9	0.6	1.3	1.7	0.9	0.6	0.2	1.3	0.6	0.1			0.1	0.1
11	1.4	0.2	2.3	0.8	1.2	1.2	0.6	0.3	0.2	0.2	0.3	0.3	0.6	0.5	0.4	0.3	0.2	0.2	0.2				0.1	0.5
12	0.1	1.1	0.1	0.9	0.3	1.1	1.5	1.0	0.7	0.6	0.7	1.2	2.6	2.6	1.8	1.5	0.6	0.5	0.2	0.3	0.3	0.2	0.4	0.4
13	0.5	0.5	0.3	0.4	0.5	0.2	0.4	0.2	0.7			0.6	0.5	0.4	0.3	0.2	0.1	0.7	0.3	0.3				
14			0.1	0.2	0.4							0.5	2.1	0.6	1.2	1.5	0.4	0.1	0.8					0.1
15		0.5	0.3	0.1					0.2	0.3	0.1		0.1	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.2
16	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.7	0.8	0.7	0.4	0.4	0.2	0.2	0.2	0.3
17	0.4	0.2	0.5	0.3	0.8	0.3	0.2						0.1	0.2	0.2	0.2					0.1			0.1
18				0.1	0.1	0.1	0.1							0.1	0.2			0.6	0.4	0.1				
* 19																								
* 20		0.1		0.1	0.1	0.1	0.6																	
21			0.2	0.3		0.2	0.1	0.3							0.2	0.2	0.2	0.2	0.2	0.2	0.1			
22				0.1	0.2	0.1		0.2	0.2									0.1	0.1	0.1	0.1	0.1		
23	0.1	0.1	0.2	0.1	0.1		1.5	0.4							0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.2		
24	0.1				0.2	0.1	0.1					C	C	C	C	C	C	C	C	C	C	C		
25				0.1	0.2											0.1	0.2	0.3	0.3	0.3	0.2	0.2		0.1
* 26																		0.1	0.2	0.2	0.2	0.3		
27		0.3	0.3	0.1	0.1	0.1	0.2	0.4	0.4	0.3							0.1	0.2	0.2	0.2	0.2			
28			0.1	0.1													0.3	0.3	0.4	0.5	0.5	0.4	0.2	0.5
29	0.3	0.3	0.2	0.2	0.1	0.2	0.3	0.1	0.6	0.3	0.4	0.6	0.5			0.2	0.4	0.5	0.5	0.4	0.3	0.2	0.1	0.1
30	0.1	0.1	0.9	0.1	0.1	0.2	0.1				0.4	0.2				0.2	0.4	0.5	0.6	0.6	0.5	0.4	0.2	0.2
31	0.4	0.6	0.4	1.0	0.8	0.2	0.9	0.9	0.2			1.5	1.3	1.0	0.5	0.9	0.5	0.5	0.6	0.5	0.4	0.5	0.3	0.3
Mean	0.14	0.19	0.29	0.23	0.25	0.34	0.33	0.29	0.41	0.40	0.35	0.45	0.59	0.51	0.52	0.45	0.50	0.39	0.33	0.23	0.18	0.14	0.10	0.14

Open spaces without figures correspond to quiet level.

* : Quiet day

C : Failure of equipment

SYOWA STATION

45° EAST MERIDIAN TIME (U.T.+3 hours)

November 1975

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
* 1			0.1	0.1					0.1	0.2	0.3	0.3	0.1	0.3	0.2		0.2							
2			1.2	0.9	0.1	0.3	0.4	0.2	0.4	0.5	0.2	0.2	0.1	C	C			0.3						
3	0.2	0.2	0.2	0.5	0.3			0.1	0.9	2.7	2.5	2.4	1.8	1.0	0.8	1.5						5.6	0.3	1.0
4	0.6	0.5				2.8	3.0	0.4	1.1	1.1	3.0	1.8	3.7	1.3	2.1	1.0	0.2					0.1	0.3	0.3
5		0.1	0.1	0.9	0.7	0.8	0.8	0.6	0.3	0.7	0.7	0.5	0.7	0.2	0.5	2.3	0.2							0.2
6	0.5	1.2	0.9	0.3	0.5	2.2	2.0	1.2	1.0	0.6	0.5	0.7	0.5	C	0.8	0.8	1.5	3.4	1.3		0.5	0.8		
7					1.4	0.9	0.7	0.3	0.3	0.5	0.4	0.4	0.4			0.2	0.2	0.1		0.2	0.6			
8					0.2	0.4		0.8	0.3	0.2	0.1	0.1	0.6	0.7	1.5	2.0								
9			0.4	0.3		0.1	1.0	0.7		0.1	0.1	0.1	1.1	1.2	3.0	0.7	3.5	2.9	0.1					
10							0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4
11		1.0	4.2	0.9	1.0	0.3	0.6	0.6	0.3	0.5	0.5	0.3	0.3	0.9	0.7	0.5	0.4	0.5	0.8	0.6	0.4	0.3	0.4	0.4
12	0.3	0.9	0.7	1.0	0.5	0.5	1.0	0.5	0.7	1.0	0.7	0.4	0.3	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2
13			0.1						0.3	0.1					0.1	0.1				0.1	0.3	0.4	0.4	0.4
* 14																								
* 15				0.2												0.1						0.1		
16			1.0	1.3	0.2		0.1	0.7		S	S	S	S	0.2	0.4	0.4	0.2	0.2	0.3	0.2	0.1			
17												S	S				0.3		0.1					
18	0.1									S	S	S	S		S	S	0.1	0.1	0.1	0.1				
19							0.1	0.1	0.1	S	S	S	S	S	S	S	S							
20		0.4			0.1	0.4			S			S	S	S	S	S	S		0.1					
21							1.1	0.5	0.2	S	S	S	S	S	0.6	0.6	0.7	0.5	0.4	0.2	0.1	0.1	0.1	0.2
22	0.1			0.1	0.1	0.1	0.6	0.2		0.2	0.6	0.2	0.3	1.7	2.0	0.3	2.1	0.9	0.9	0.9	0.9	0.7	0.7	
* 23	0.2	0.2	0.1	0.1	0.1	0.1						0.1	0.1	0.2	0.2	0.6	0.3							
24			0.1	0.1	0.3	0.2	0.1	0.1	0.2	0.9	0.8	0.2	0.3	0.2	0.4	1.0	0.3	0.1						
25	0.2	0.1	1.0		0.7	0.1	0.3	0.1	0.2															
26	0.1								0.3	0.7	0.3	0.5	7.8	1.9	2.8	2.9	1.6	0.7	0.8	0.4	0.4	0.4		
27	0.2	0.1	0.1	1.0					0.2			0.4	0.3	0.4	0.2	1.0	0.5	0.2	0.2					
28			0.3	0.1	0.3							0.7	0.3	0.6	0.5	0.5	0.5	0.3	0.7	0.3	0.1			
29		0.2	0.1				0.4					3.0	0.8	0.4	0.4	0.9	0.7	0.4	0.3	0.2	0.1			1.6
30	1.1	0.2	0.2			0.1	2.0	0.5	0.1	0.7	1.2	0.8	0.7	1.3	0.7	0.8	0.6	0.4	0.1			0.8	0.3	
Mean	0.12	0.17	0.36	0.26	0.22	0.31	0.48	0.25	0.23	0.36	0.41	0.45	0.68	0.44	0.62	0.63	0.49	0.38	0.22	0.12	0.14	0.30	0.11	0.17

Open spaces without figures correspond to quiet level.

* : Quiet day

S : Interference

SYOWA STATION

45° EAST MERIDIAN TIME (U.T. +3 hours)

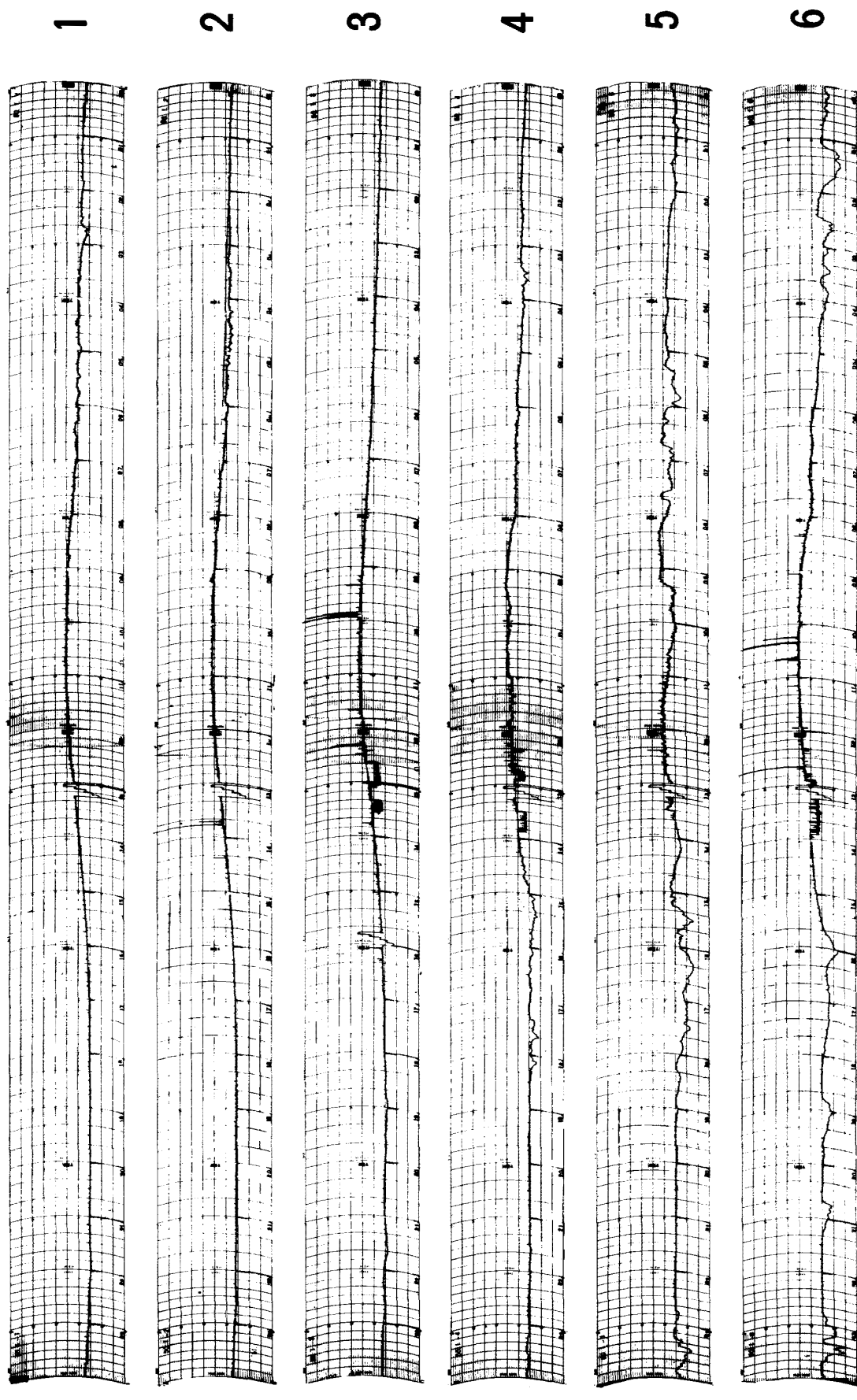
December 1975

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0.3	0.4	5.4	0.8	1.1	1.2	2.0	0.7	0.8	1.8	2.0	1.2	0.9	1.1	0.7	0.8	0.3	0.1			0.2	0.1	0.2	1.9
2	1.0	1.7	3.9	1.6	0.2	1.0	0.6	0.5	0.3	0.2	0.5	0.3	2.1	1.8	0.5	0.2		0.2			0.1	0.1	0.3	0.5
3		0.9	2.0	1.1	0.8	0.6	0.3	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.7	0.6	0.1		0.2	2.2	0.4	0.3	0.1	0.2
4	0.6	0.3	0.6	0.8	0.2	0.9	0.3	0.8	0.8	0.6	0.4	0.3	0.7	0.9	1.3	0.8	0.3	1.2	0.3	0.1	0.1	0.1		
5	0.2	0.2	0.1	0.7	0.5	0.3	0.2	0.2	0.2				0.1	0.3	0.3	0.2	0.5	0.4	0.2	0.1	0.1	0.2		0.2
6	0.2	0.7	0.5	0.2	0.2	0.2	0.3	0.4	0.1							0.2	0.2	0.4	0.5	0.3	0.1	0.3	0.1	0.2
* 7	0.2	0.3	0.2	0.1	0.1	0.1	0.1			0.2		0.1	0.1								0.6	0.4	0.1	0.1
8	0.1	0.4	0.2	0.2	0.1	0.3	0.3	0.7	0.8	0.2			0.2	0.2	0.1			0.1			0.3	0.3	0.3	
9	0.2	0.2	0.8	1.1	0.4	0.1	0.1	0.1	0.1					0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.1	0.1
10	0.3	0.4	0.5	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
11	0.6	0.9	0.4	0.5	0.5	0.5	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.3
12	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2
13	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1					0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
* 14	0.2	0.2	0.2	0.2	0.2	0.1								0.1	0.1	0.1				0.1	0.1	0.2		
* 15	0.2				0.4	0.6							0.2			0.1	0.1		0.2	0.1	0.1			0.1
16			0.2	0.3	0.3	0.3	0.5	0.1		0	0.2		0.1		0.1				0.1		0.1	0.1	0.2	
17	0.3	0.1	0.3	0.4	0.9	0.4	0.5	1.1	0.2	0.2												0.1	0.2	
18	0.2	0.5	0.2	0.2	0.3	0.5	0.3	0.2	0.1	0.1												0.3	0.2	
* 19						0.1	0.2	0.2	0.2												0.1			0.2
* 20	0.2						0.1	0.3																
* 21				0.1																0.5	0.2	0.2		
22	0.4			0.3	0.4	0.4	0.2	0.2	0.3	0.2	0.1						0.2	0.2	0.3	0.3	0.2	0.2	0.1	
23	0.1	0.1	0.6	0.4	0.3	0.3	0.2	0.1	0.2	0.3									0.1	0.1				
* 24	0.3																							
25	0.2	0.5	0.1	0.1	0.3	0.1	0.2	0.4	0.6	0.5	0.4	0.3	0.2				0.3		0.1	0.3			0.1	
26	0.1			1.2	0.3	0.1	0.4	0.1	0.2	0.9	0.3	0.1	2.0	0.6	0.5	0.5	0.7	0.3	0.1	0.2	0.1	0.1	0.1	0.3
27	0.4	1.4	0.5	0.5	1.3	0.7	0.6	0.8	0.8	0.8	0.6	1.6	0.9	0.8	0.3	0.5	0.5	0.3	0.1	0.2	0.1	0.1	0.1	0.7
28	0.8	0.2	0.2	0.1	2.5	0.6	0.6	0.2	0.3						0.2	0.2	0.1	0.2	0.3	0.1	0.1	0.2	0.2	0.1
29	0.1	0.1	0.3	0.2	0.5	0.5	0.2	0.4	0.3	1.2	0.2	0.7	1.4	1.0	1.0	0.6	0.7	0.9	1.1	0.6	0.4	0.3	0.2	0.2
30	0.1	0.8	1.0	1.1	1.7	0.6	0.6	0.3	0.6	0.3	0.1	0.2	0.3	0.9	0.7	0.8	0.7	0.7	0.7	0.5	0.5	0.2	0.3	0.2
31	0.3	0.2	1.2	0.8	0.5	0.6	1.2	0.7	0.6	0.4	0.5	0.6	0.8	1.0	1.0	0.9	0.8	0.8	1.0	0.8	0.6	0.6	0.6	0.5
Mean	0.26	0.36	0.64	0.45	0.48	0.38	0.36	0.32	0.28	0.28	0.20	0.21	0.37	0.33	0.28	0.24	0.22	0.23	0.20	0.25	0.18	0.18	0.14	0.21

Open spaces without figures correspond to quiet level.

* : Quiet day

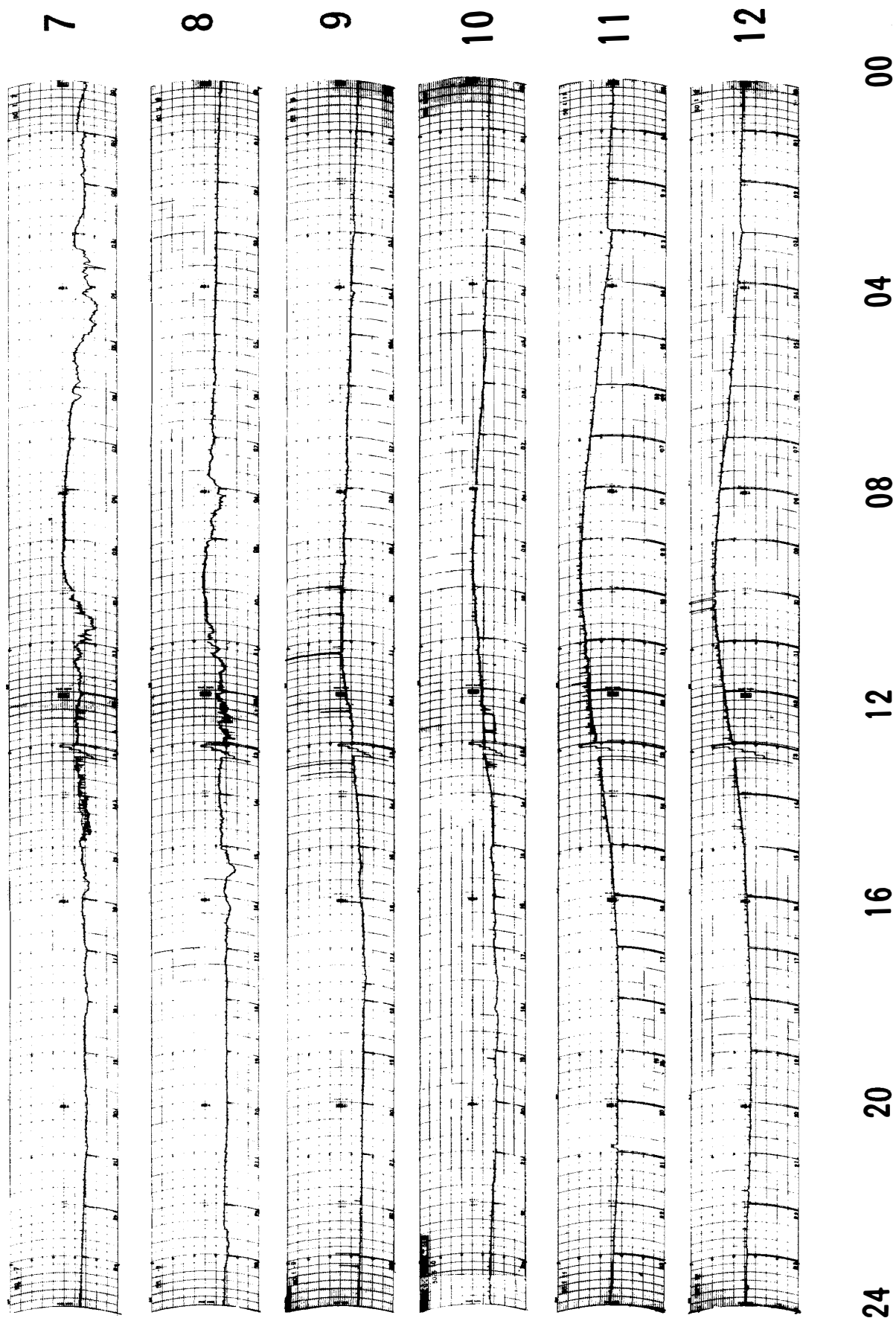
JAN 1975



45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JAN 1975



45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JAN 1975

13

14

15

16

17

18

24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JAN 1975

19

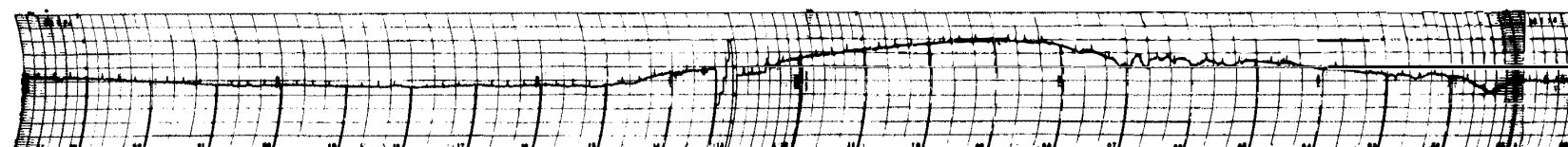
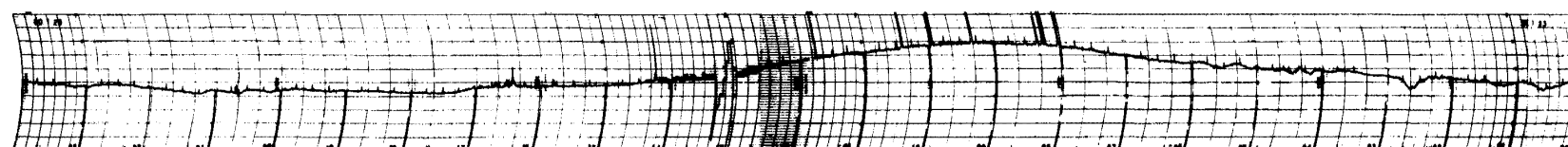
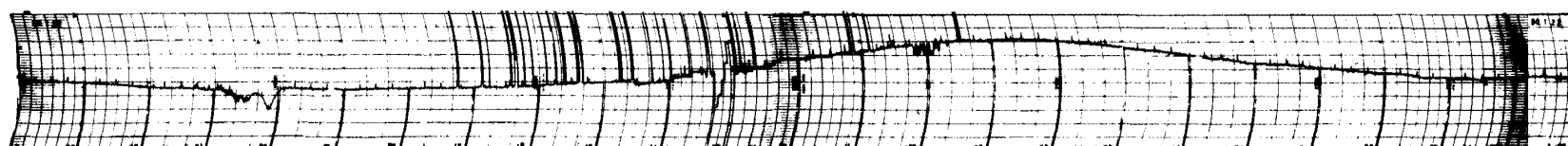
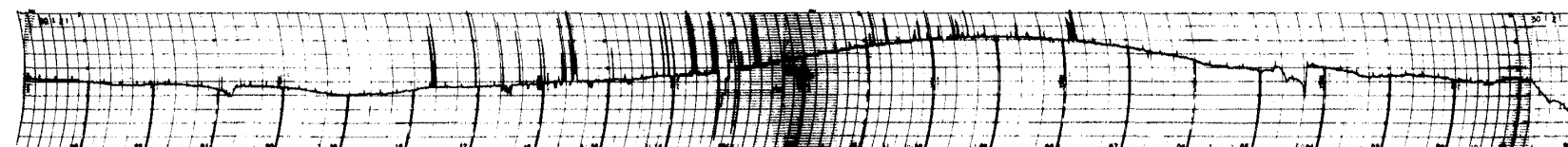
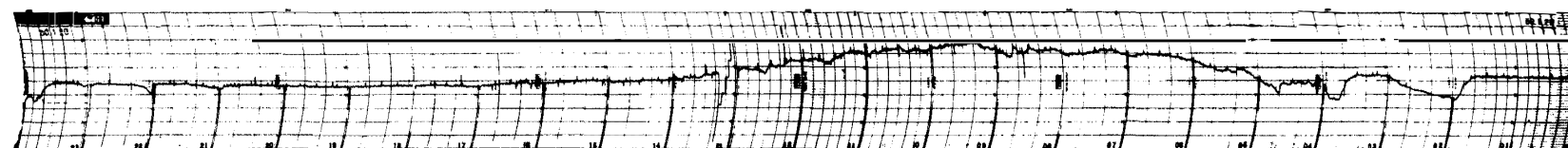
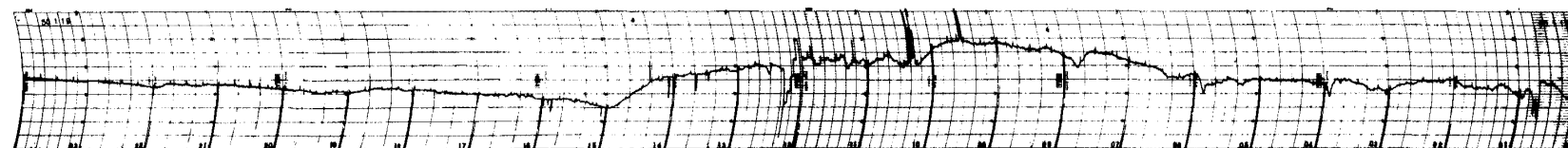
20

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— 19 —

24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JAN 1975

25

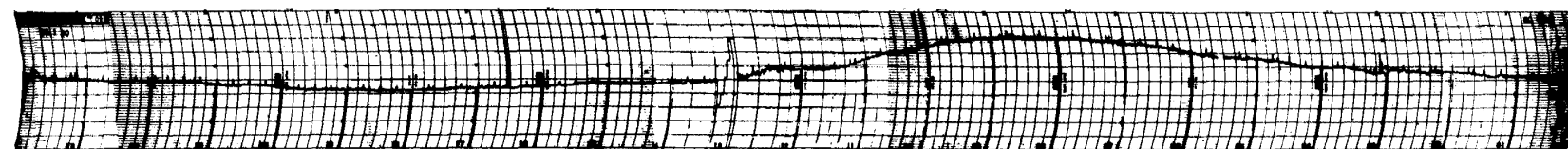
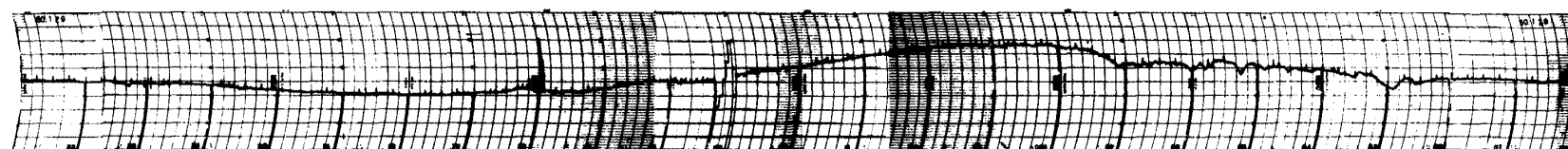
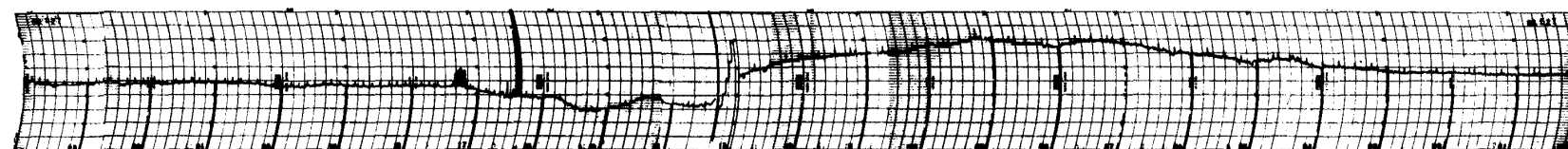
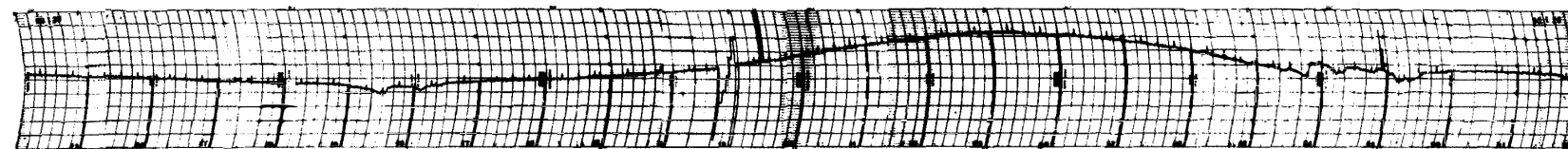
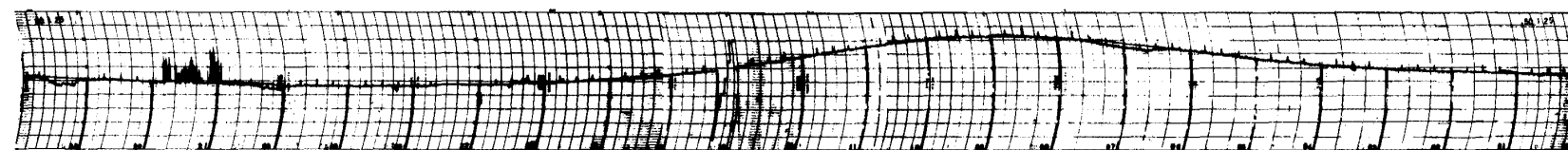
26

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— 20 —

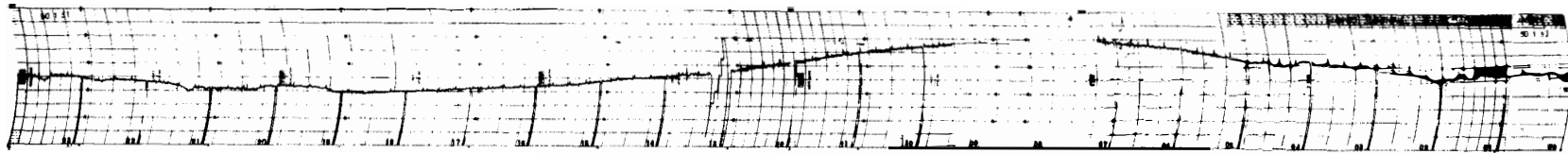
24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JAN 1975

31



24 20 16 12 08 04 00

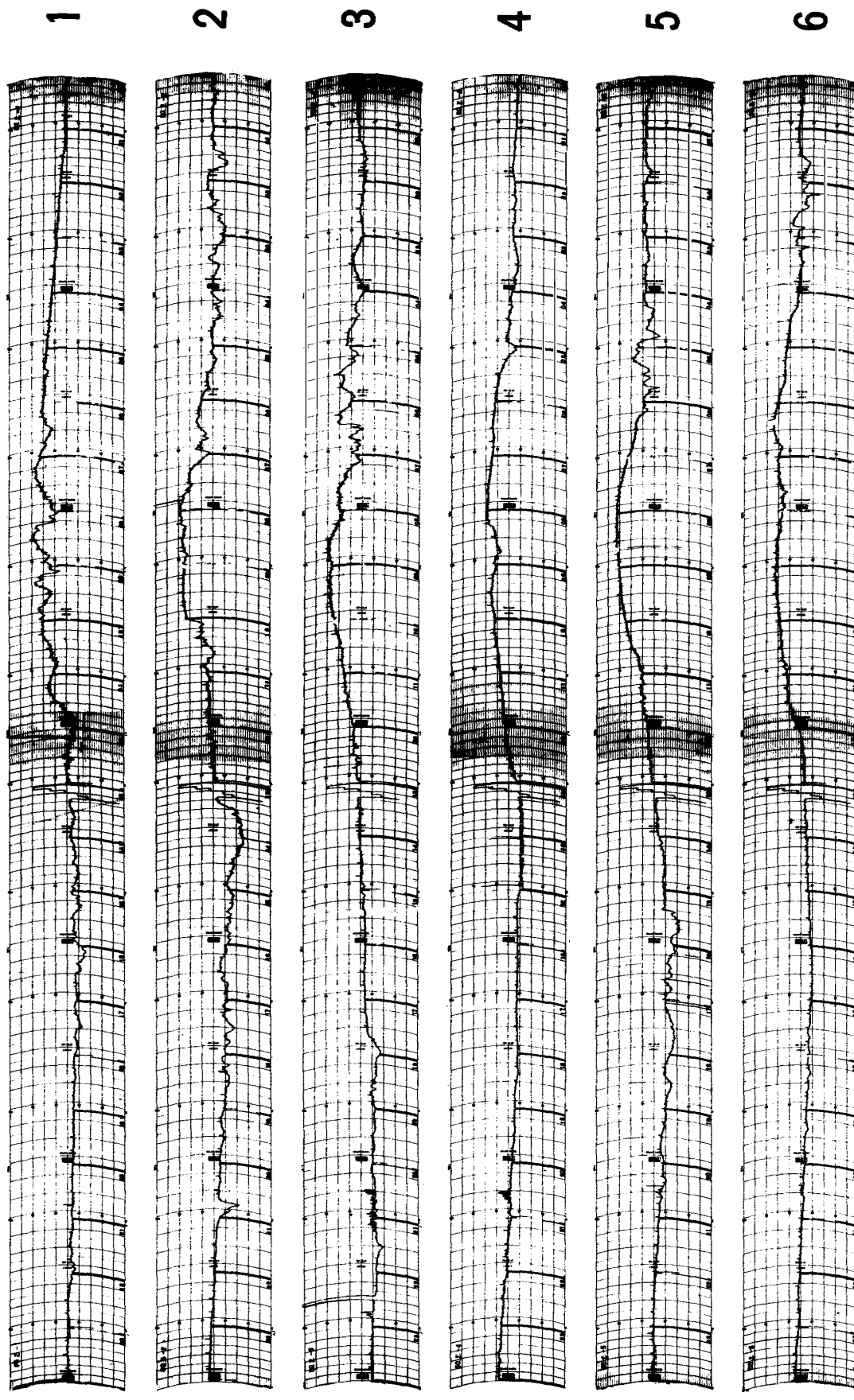
45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

Cosmic noise level obscured or equipment malfunction.

31. 0717 — 0932 failure of equipment.

FEB 1975

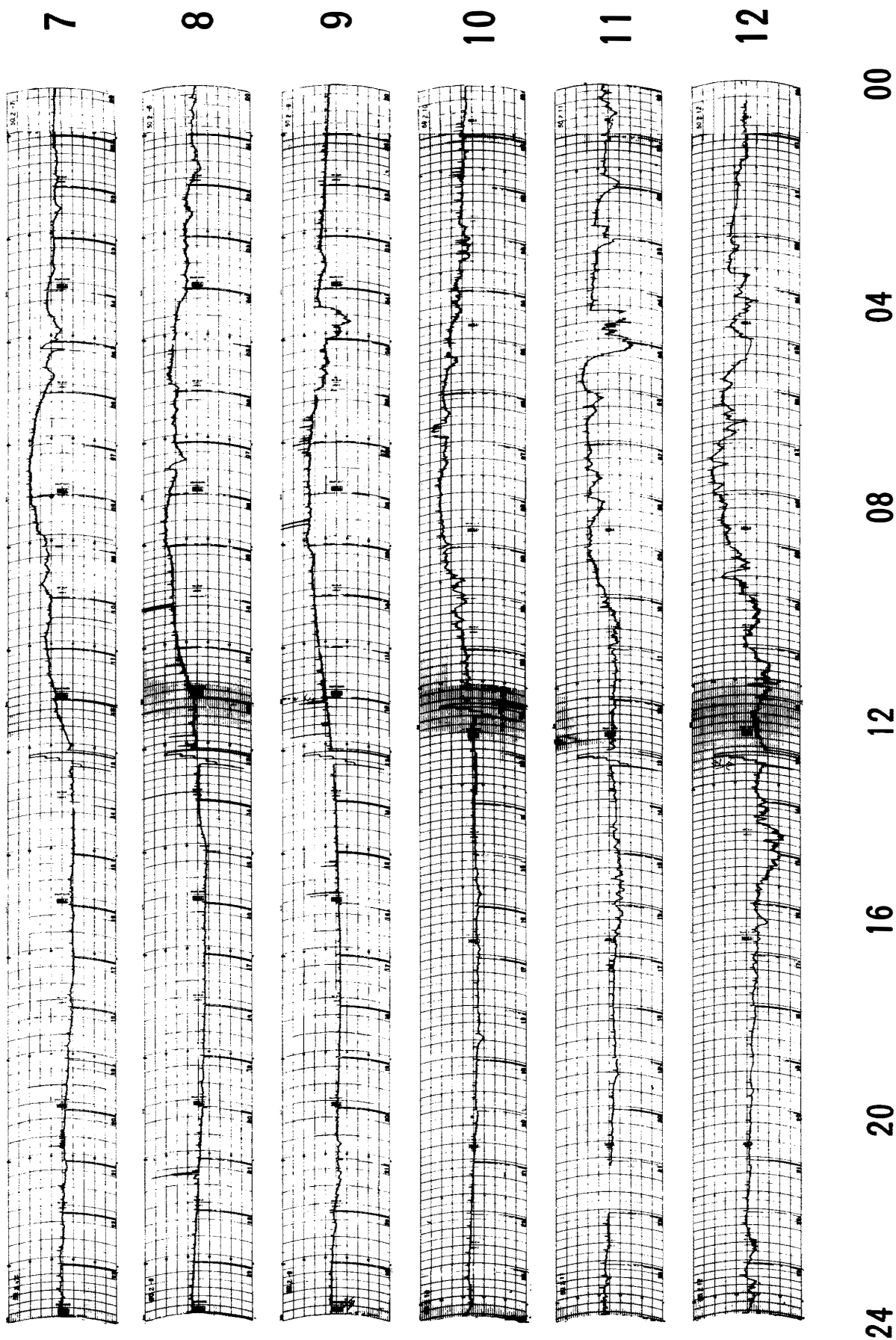


24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

FEB 1975



45° EAST MERIDIAN TIME IN HOURS 30 MHz COSMIC NOISE

FEB 1975

13

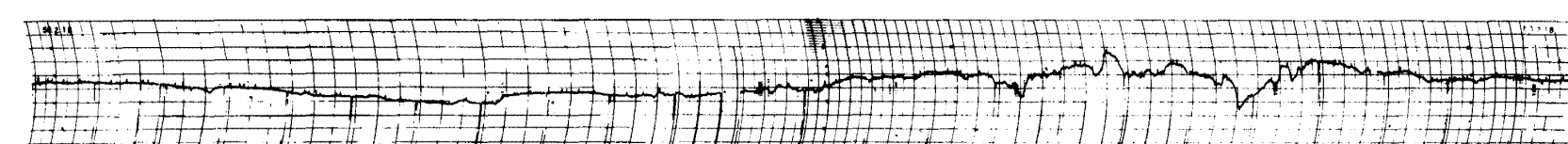
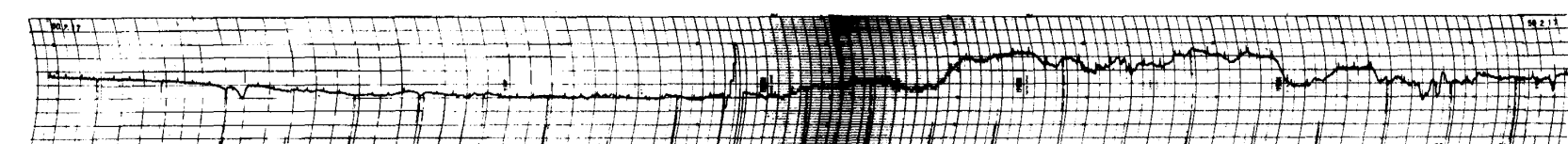
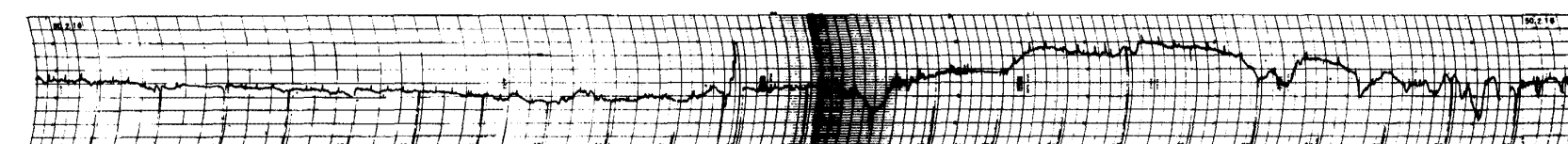
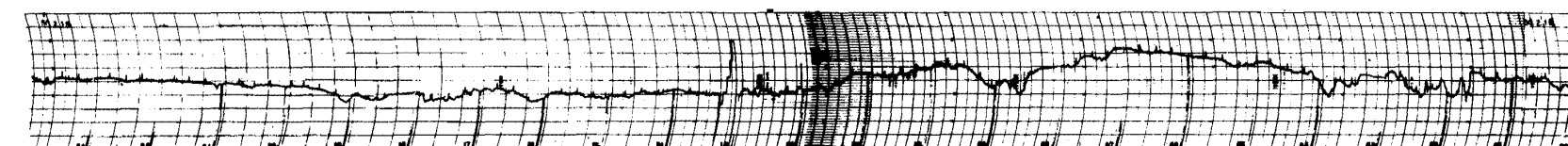
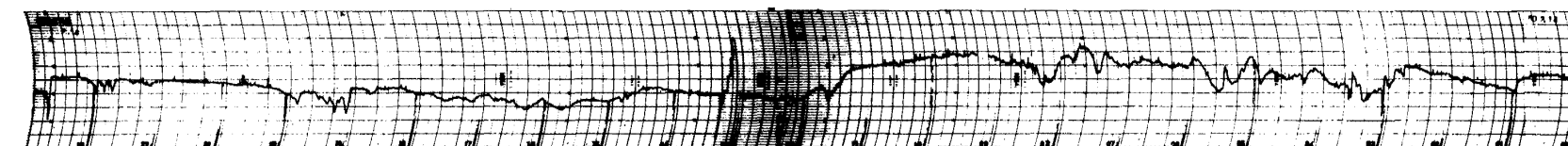
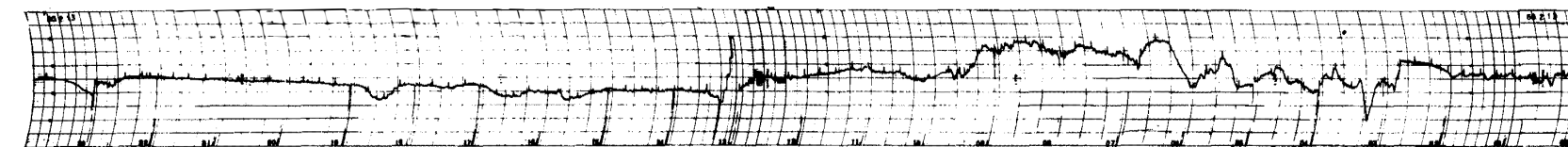
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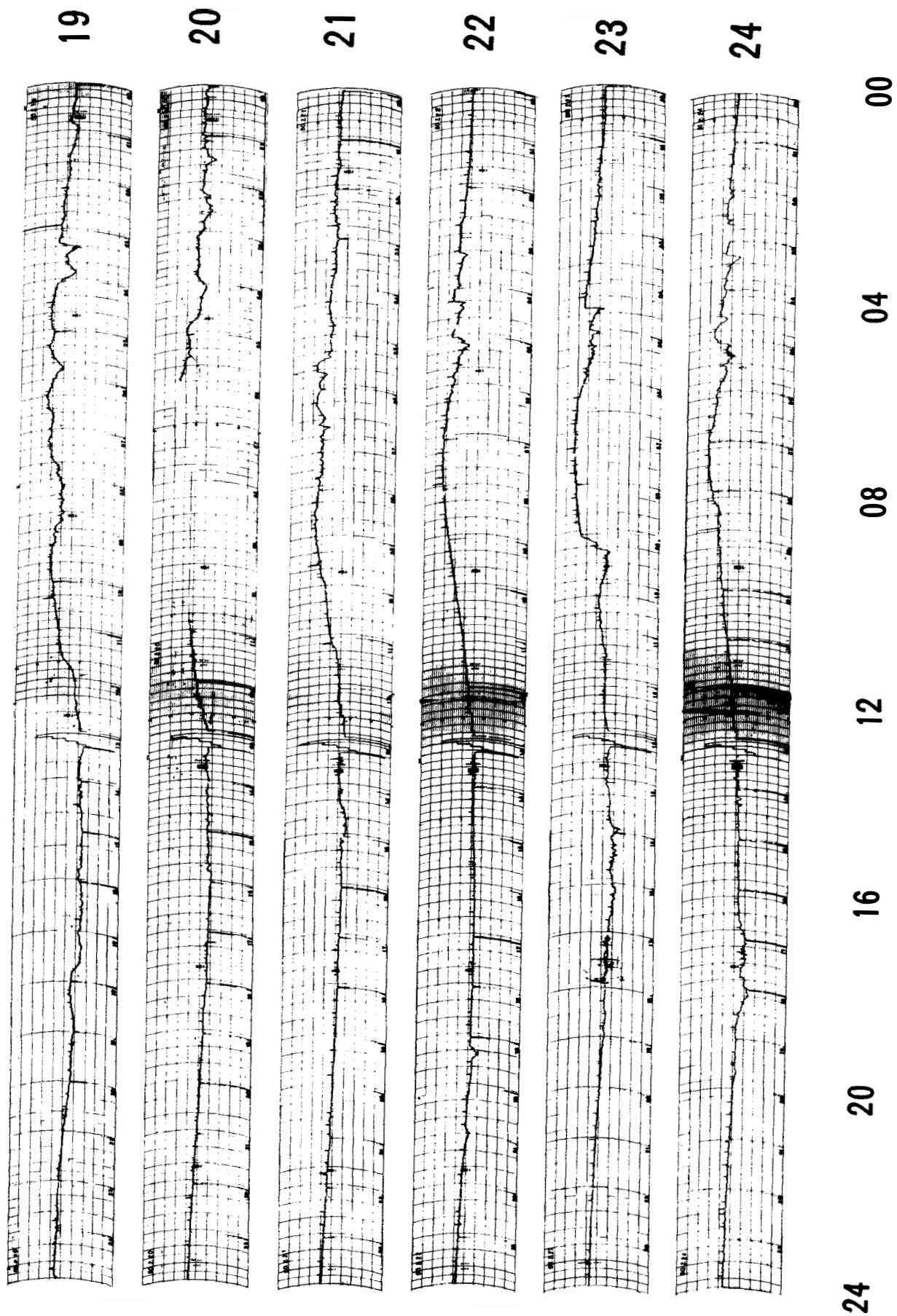


24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

FEB 1975



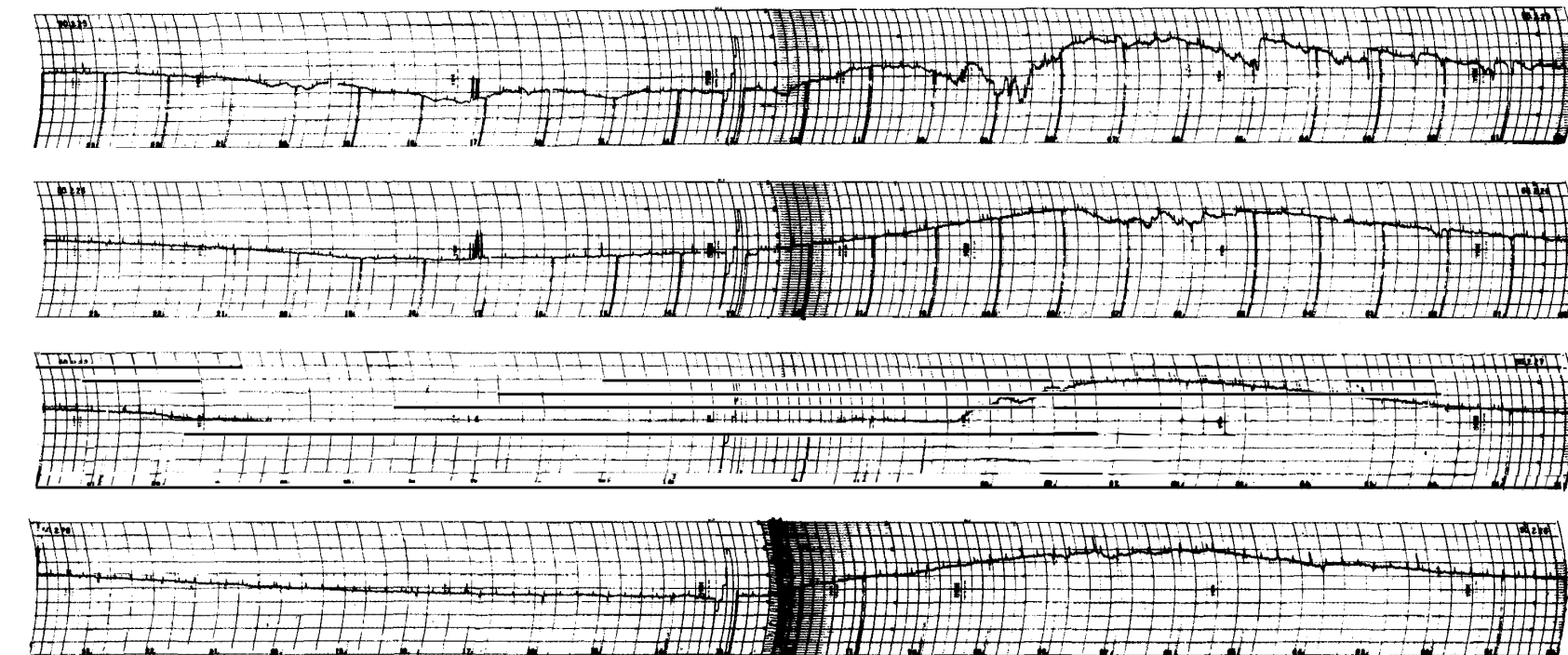
FEB 1975

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24 20 16 12 08 04 00

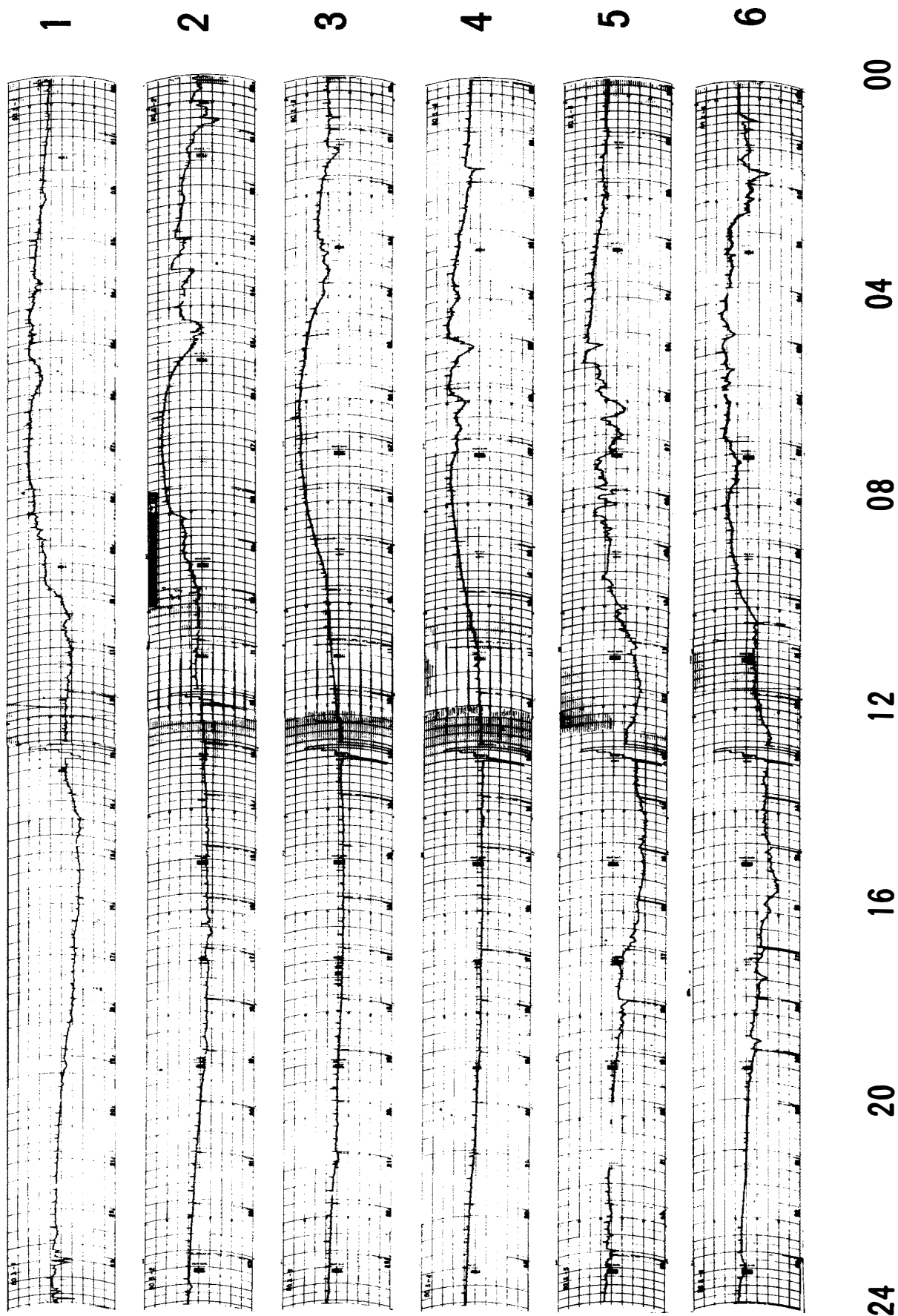
45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

Cosmic noise level obscured or equipment malfunction.

- | | | |
|-----|-------------|-----------------------|
| 11. | 2107 – 2200 | failure of equipment. |
| 20. | 0555 – 1058 | " |

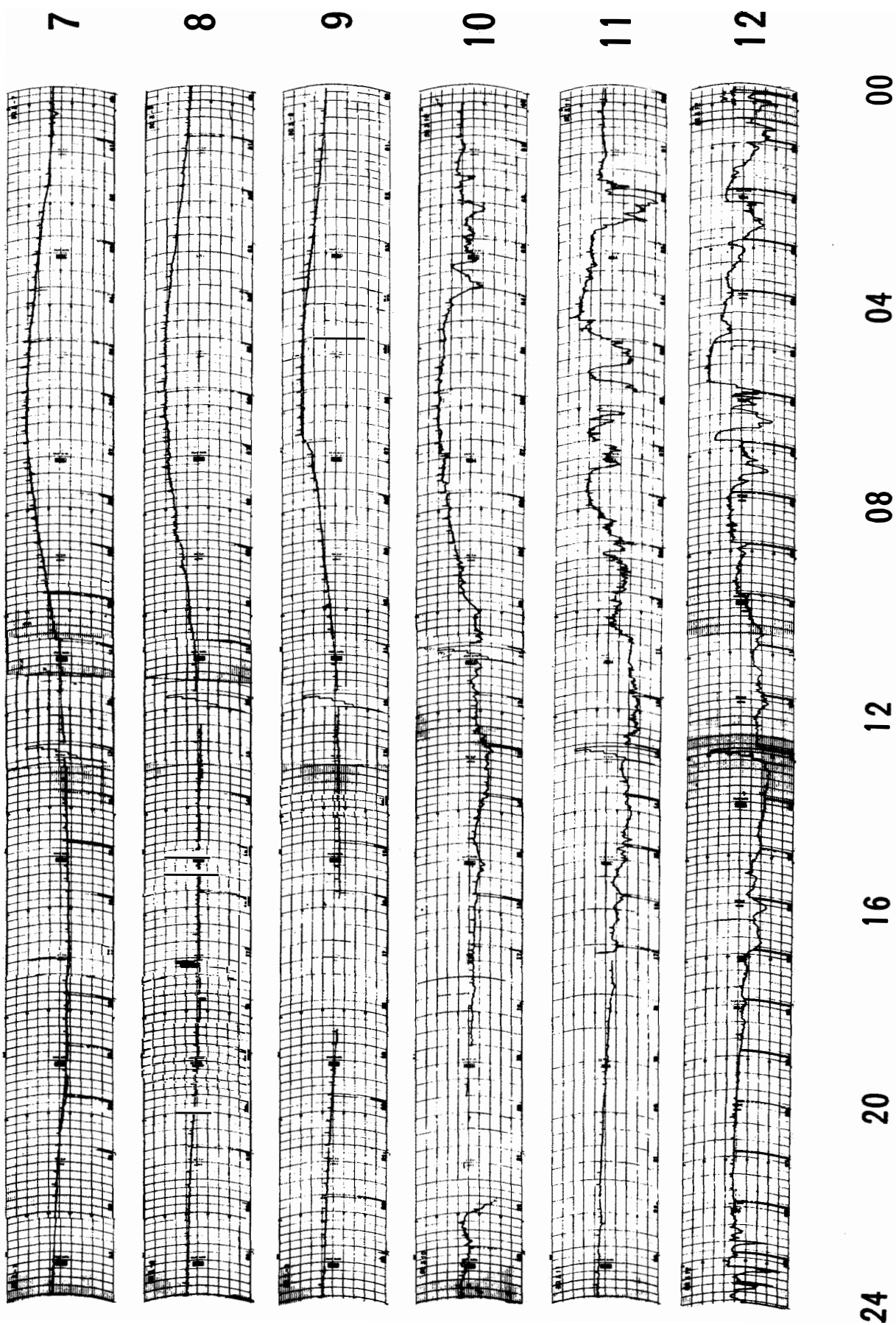
MAR 1975



30 MHz COSMIC NOISE

45° EAST MERIDIAN TIME IN HOURS

MAR 1975



MAR 1975

13

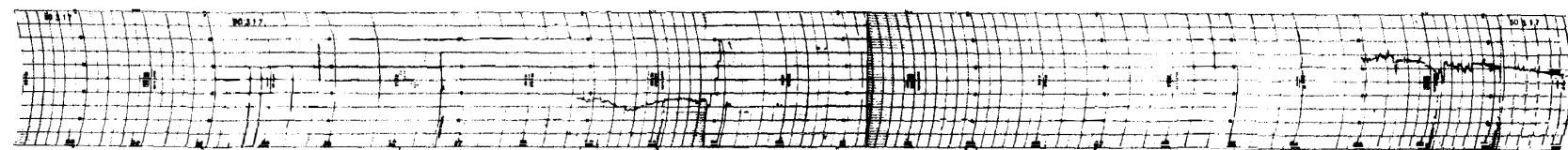
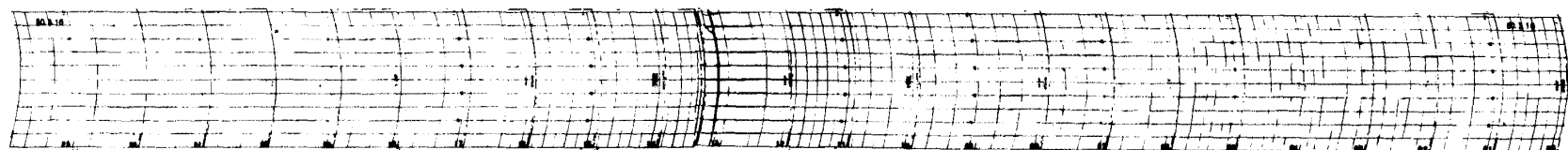
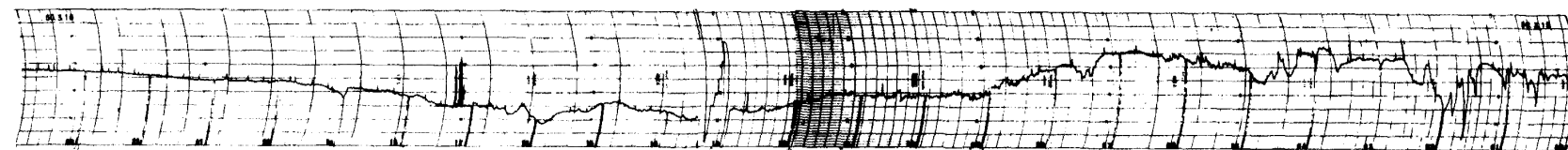
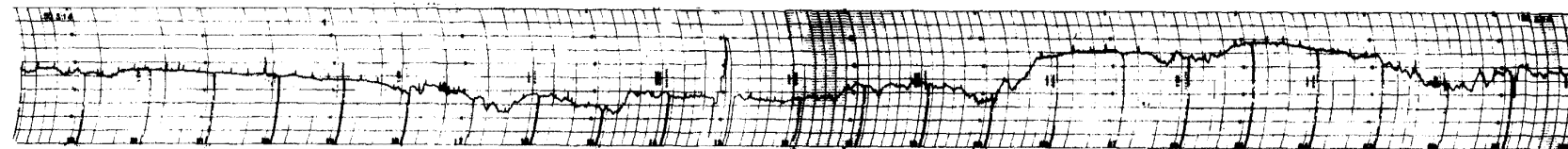
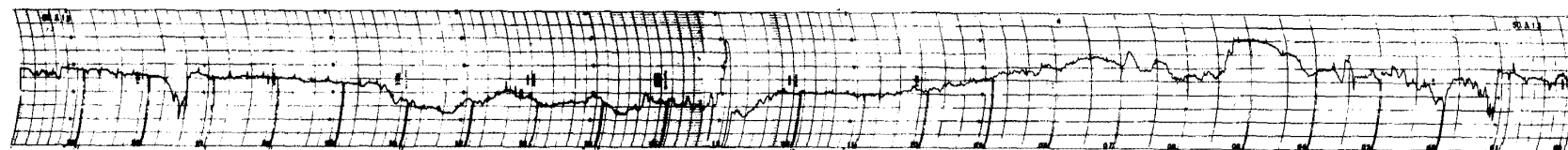
14

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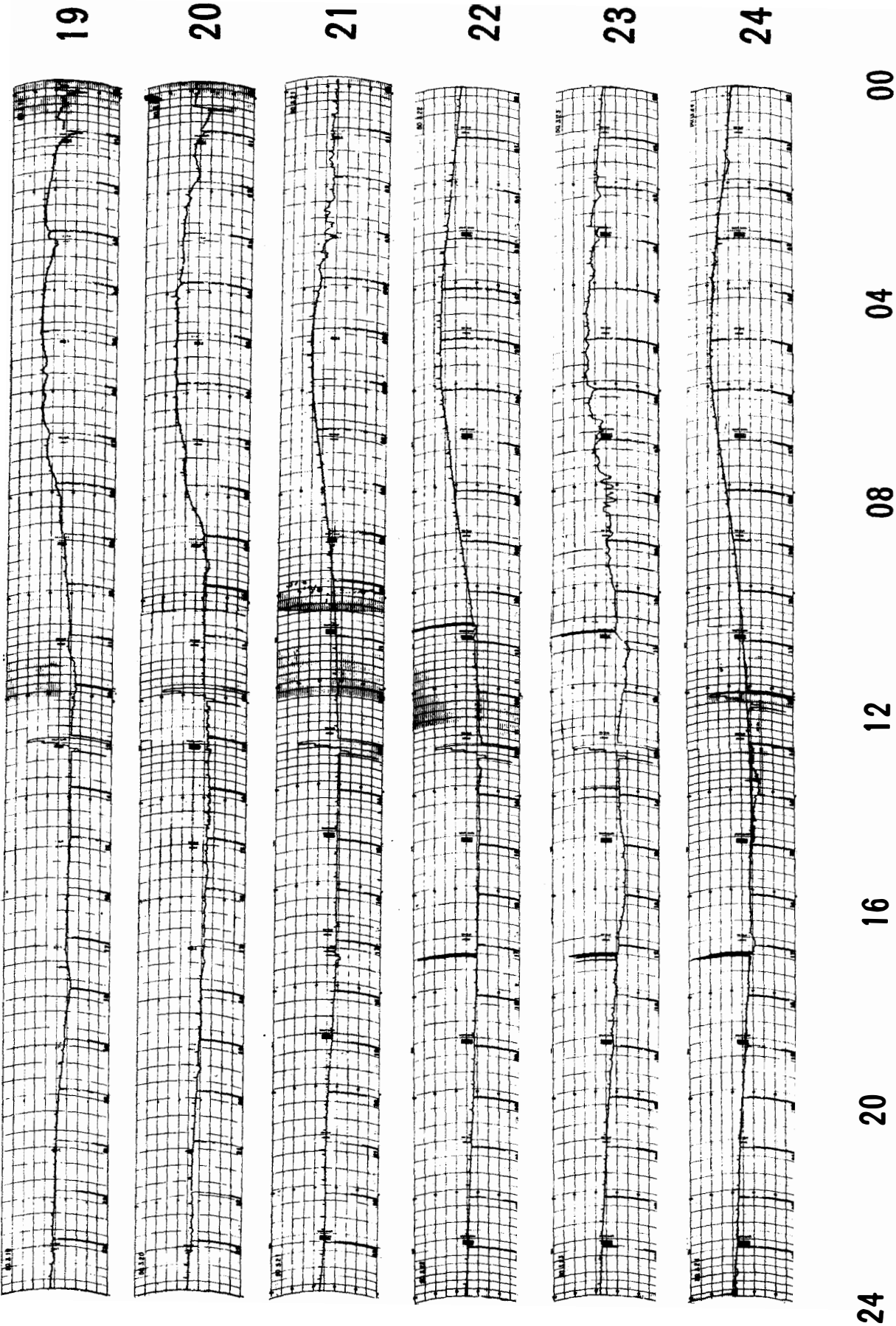


24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

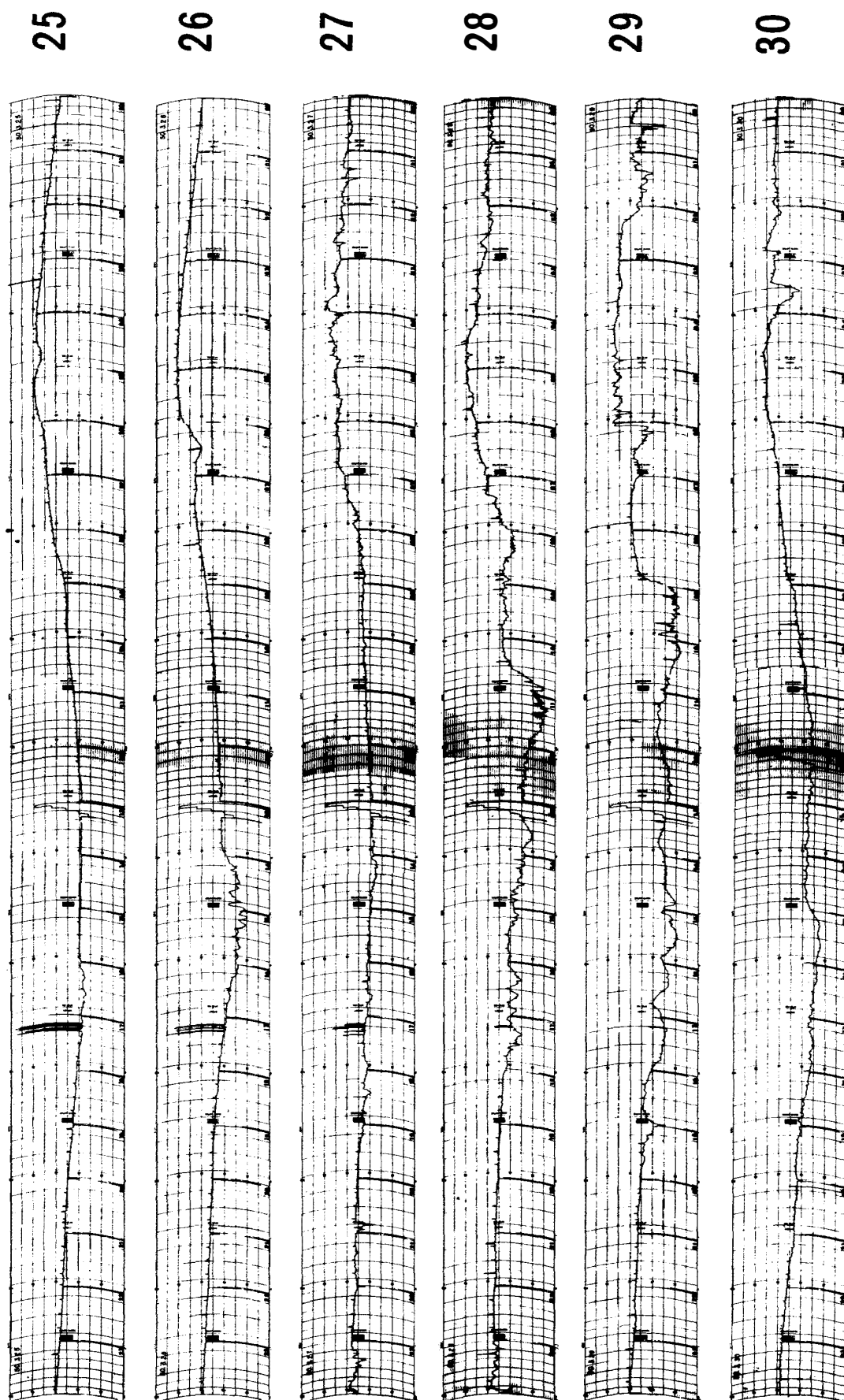
MAR 1975



30 MHz COSMIC NOISE

45° EAST MERIDIAN TIME N HOURS

MAR 1975



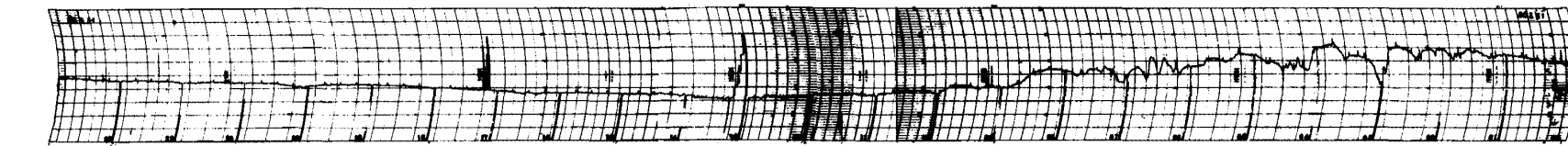
24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

MAR 1975

31



24 20 16 12 08 04 00

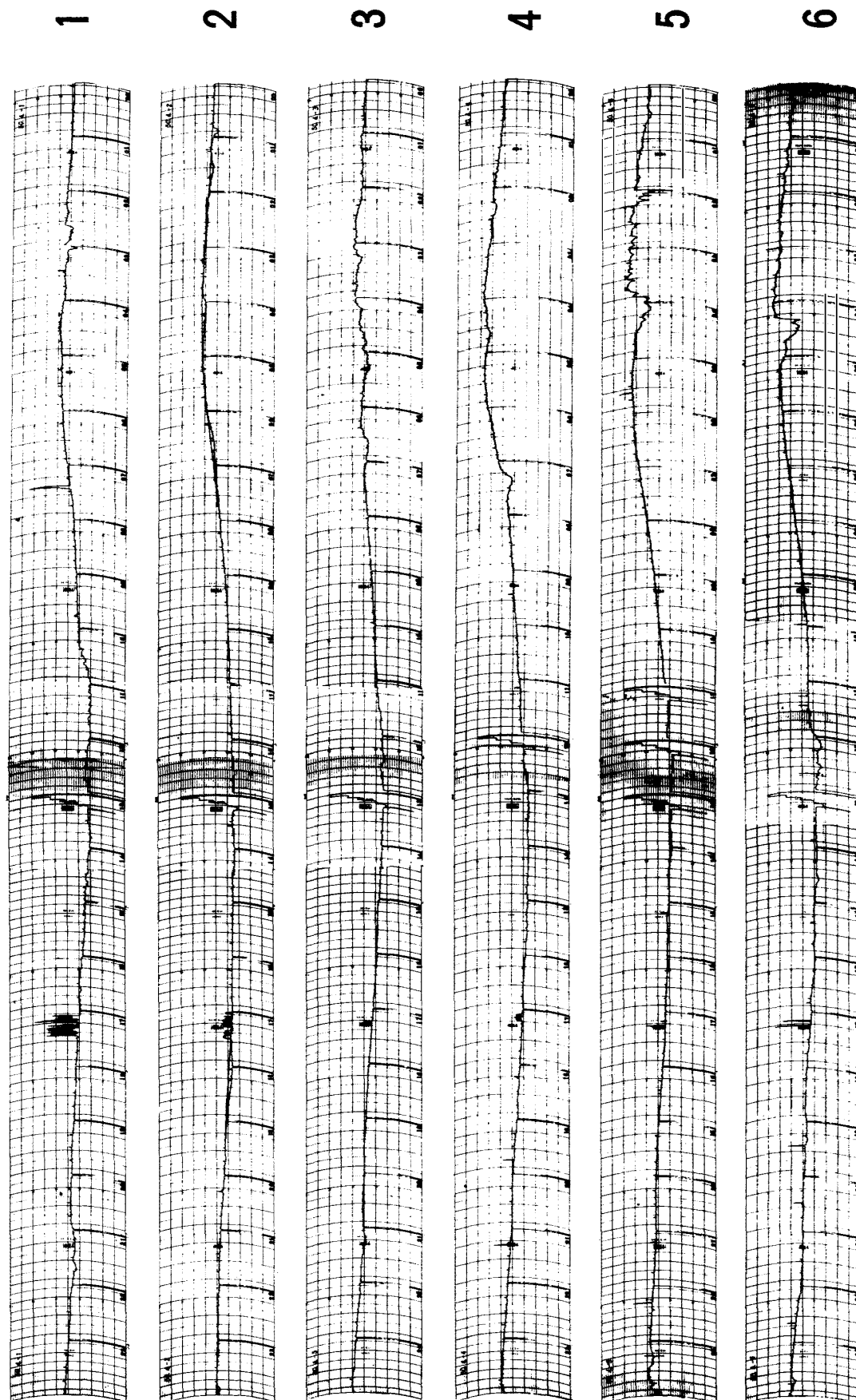
45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

Cosmic noise level obscured or equipment malfunction.

- | | | |
|-----|-------------|-----------------------|
| 5. | 2000 – 2117 | failure of equipment. |
| 5. | 2345 – | |
| 6. | 0035 | " |
| 7. | 2200 – 2320 | " |
| 9. | 1610 – 1835 | " |
| 10. | 1900 – 2200 | " |
| 11. | 0600 – 0625 | " |
| 15. | 1310 – | |
| 16. | 1330 | " |
| 17. | 0300 – 1300 | " |
| 17. | 1515 – 2300 | " |

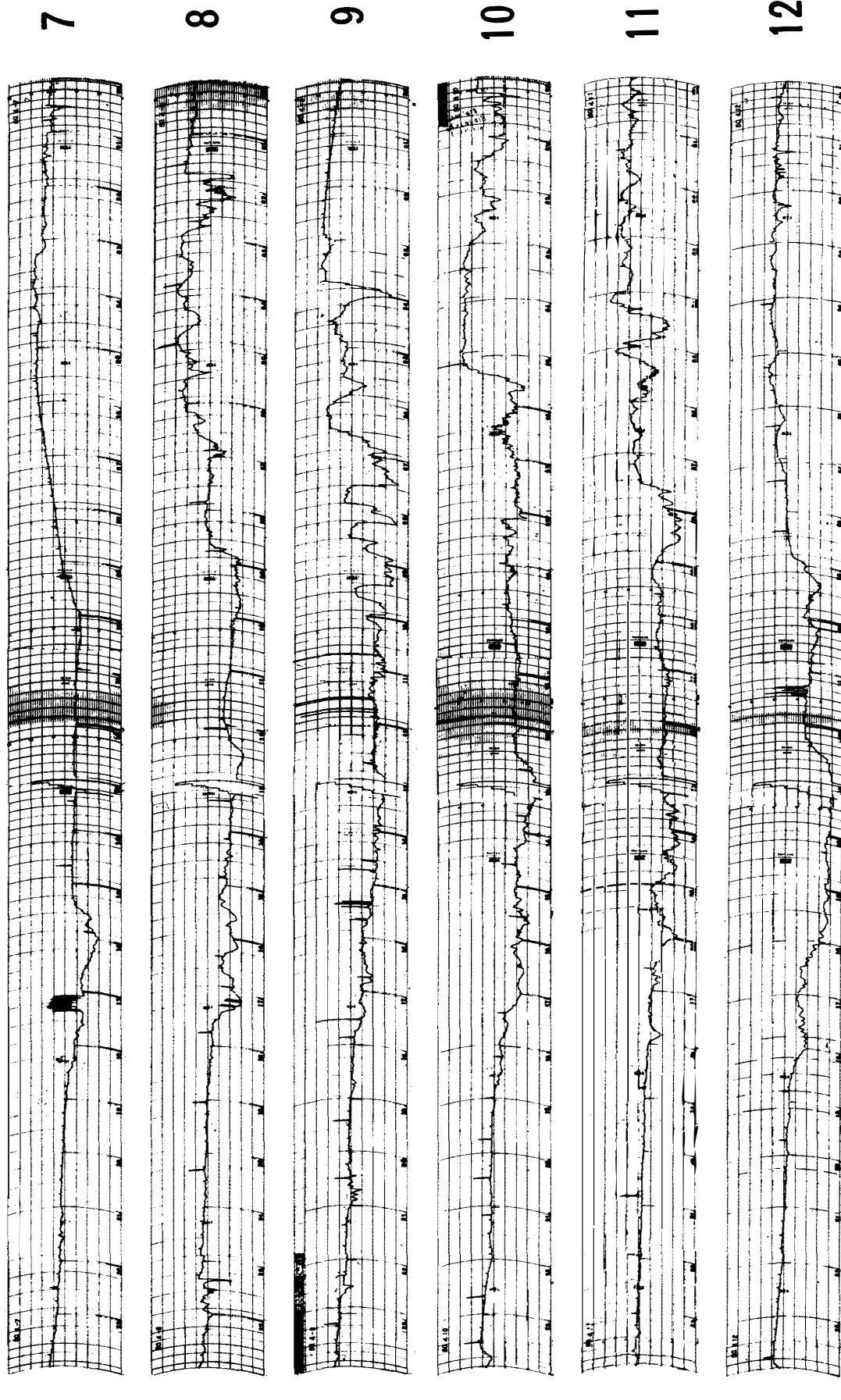
APR 1975



24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS 30 MHz COSMIC NOISE

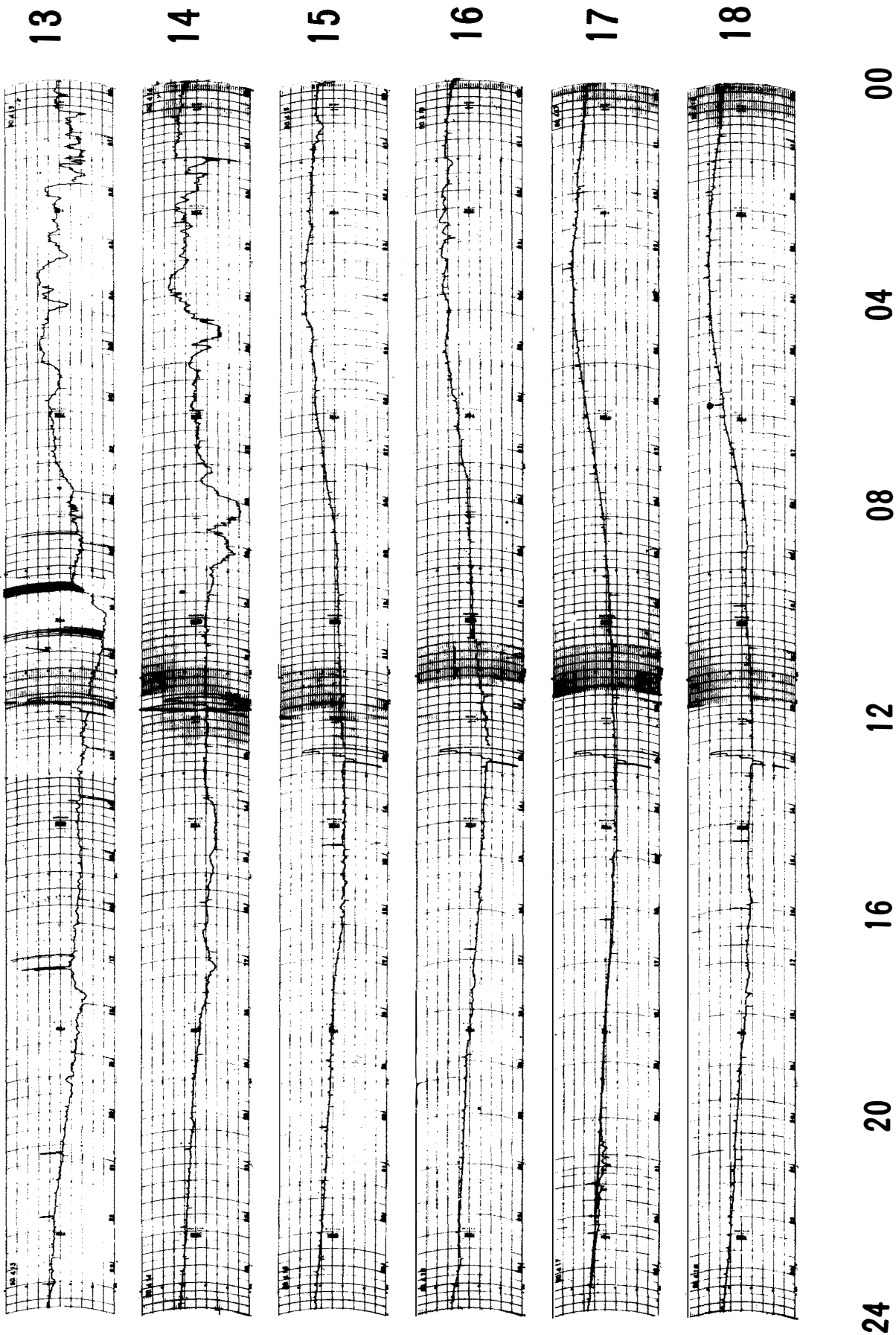
APR 1975



30 MHz COSMIC NOISE

45° EAST MERIDIAN TIME IN HOURS

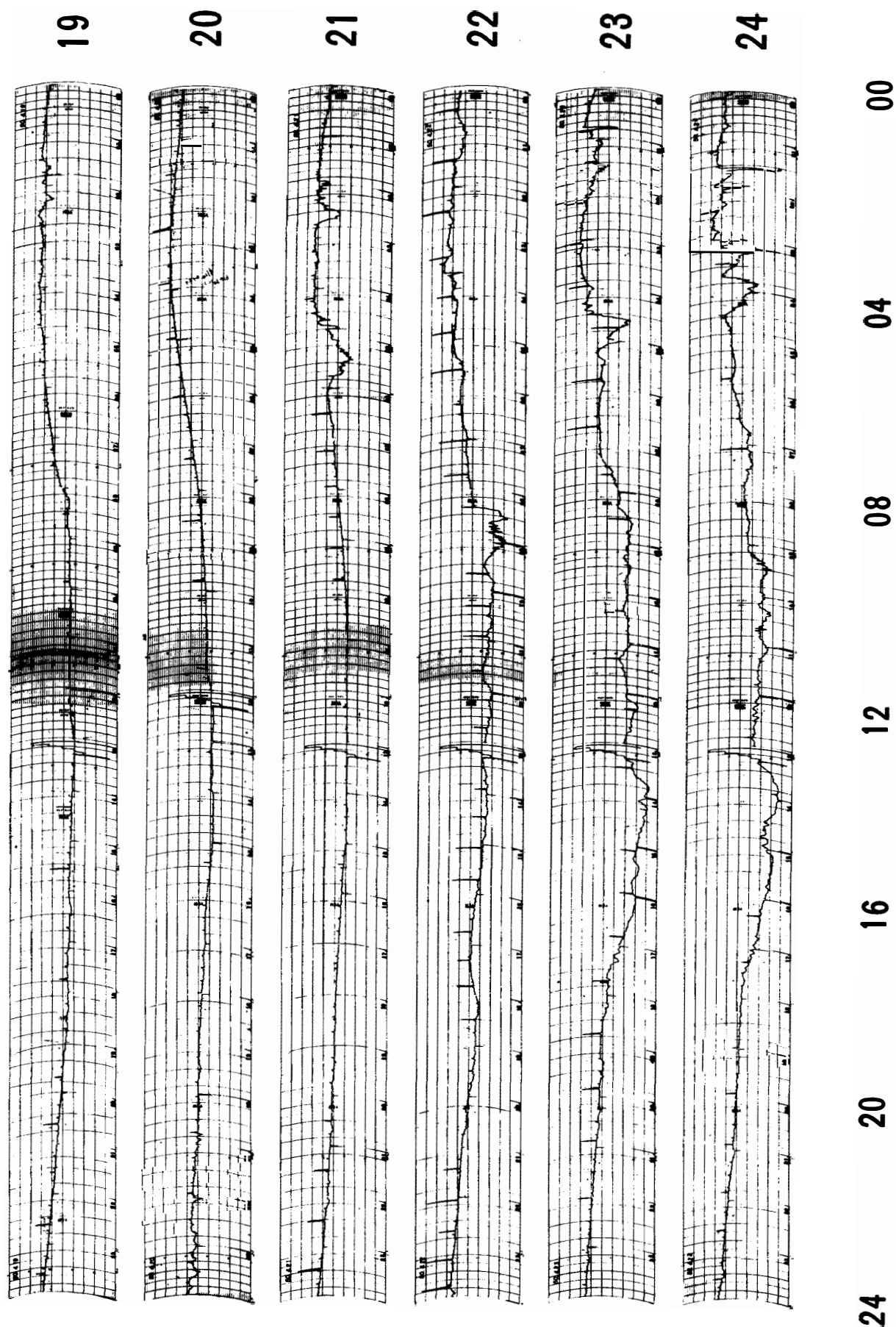
APR 1975



45° EAST MERIDIAN TIME IN HOURS

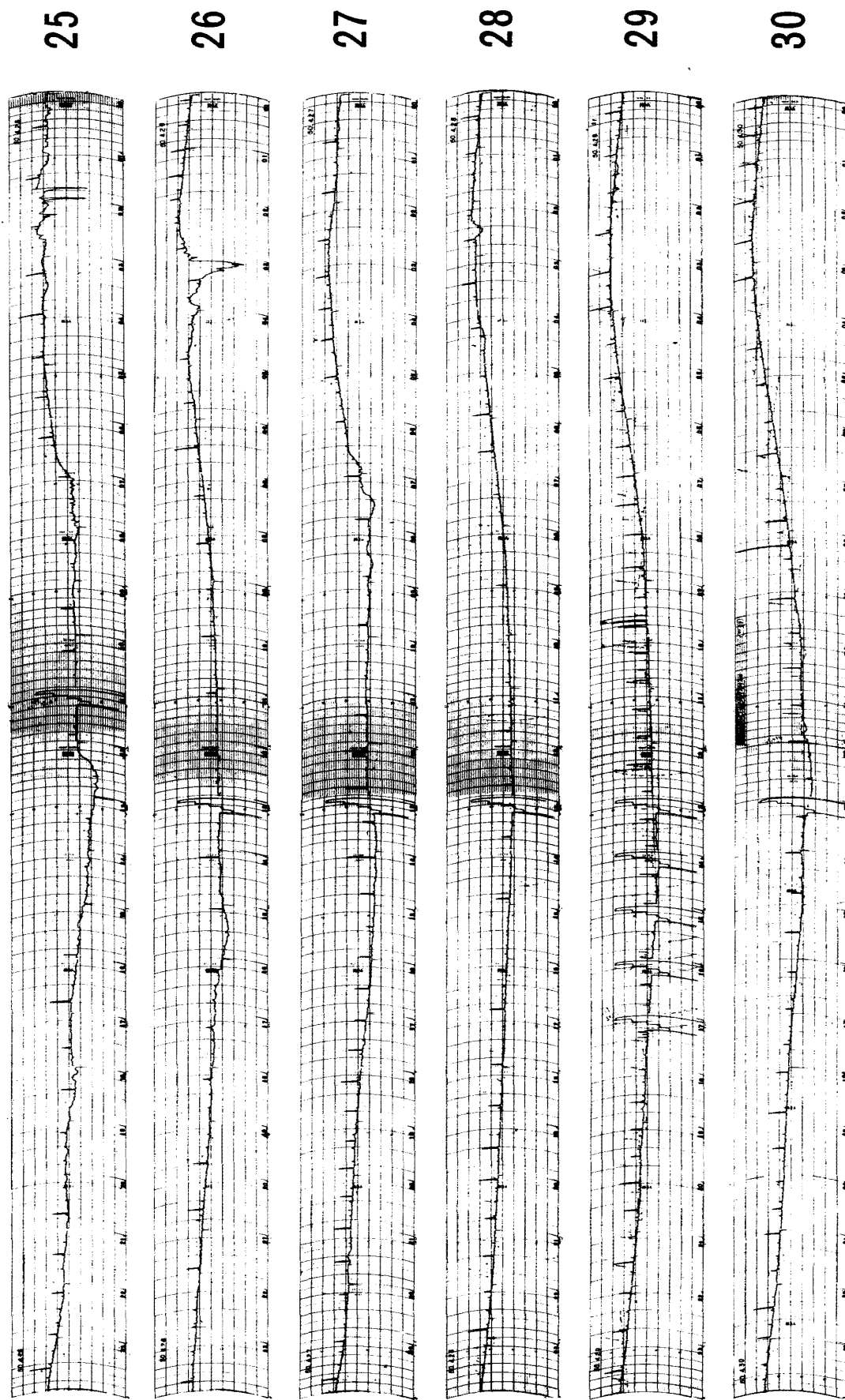
30 MHz COSMIC NOISE

APR 1975



45° EAST MERIDIAN TIME IN HOURS

APR 1975

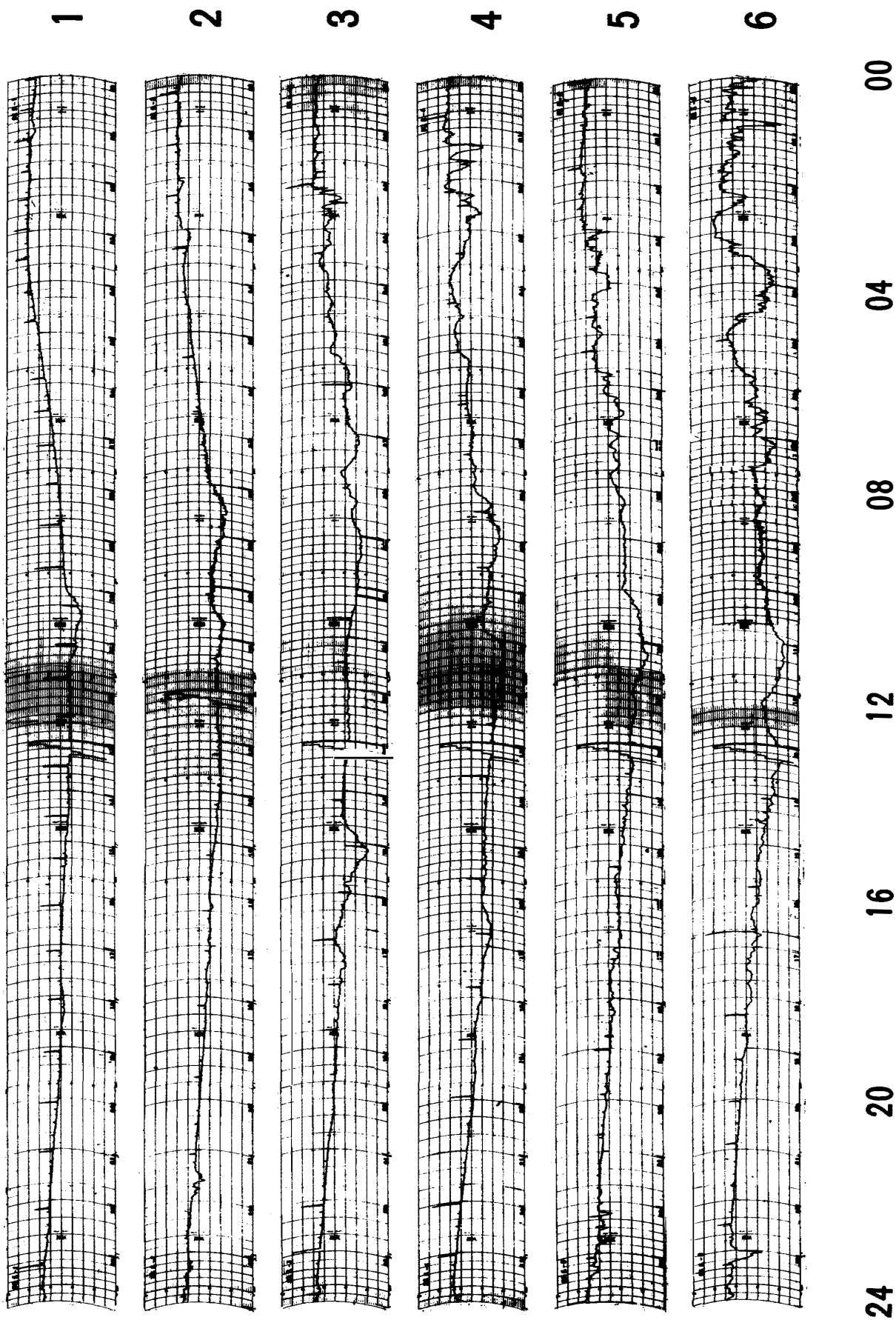


24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

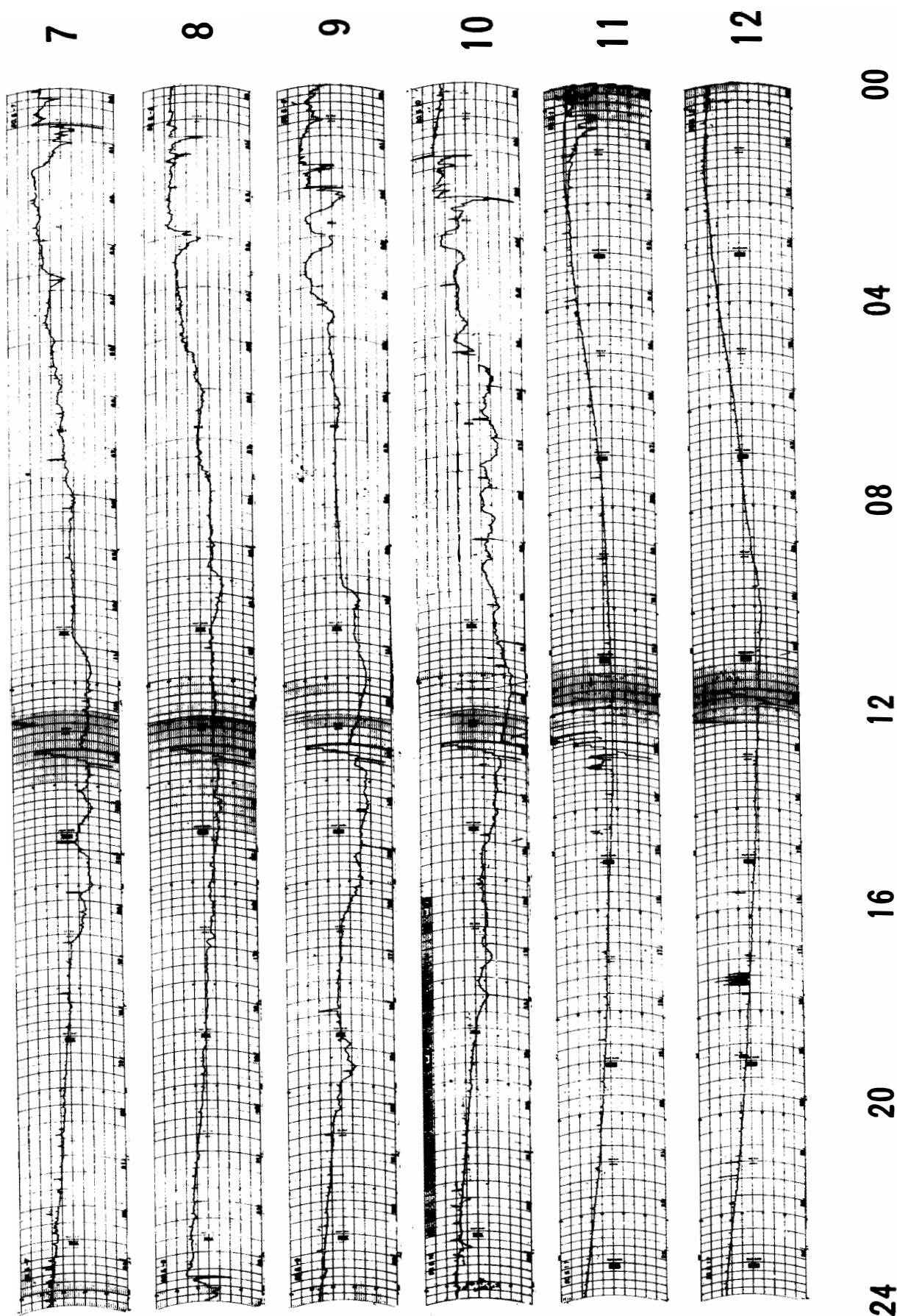
MAY 1975



45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

MAY 1975



MAY 1975

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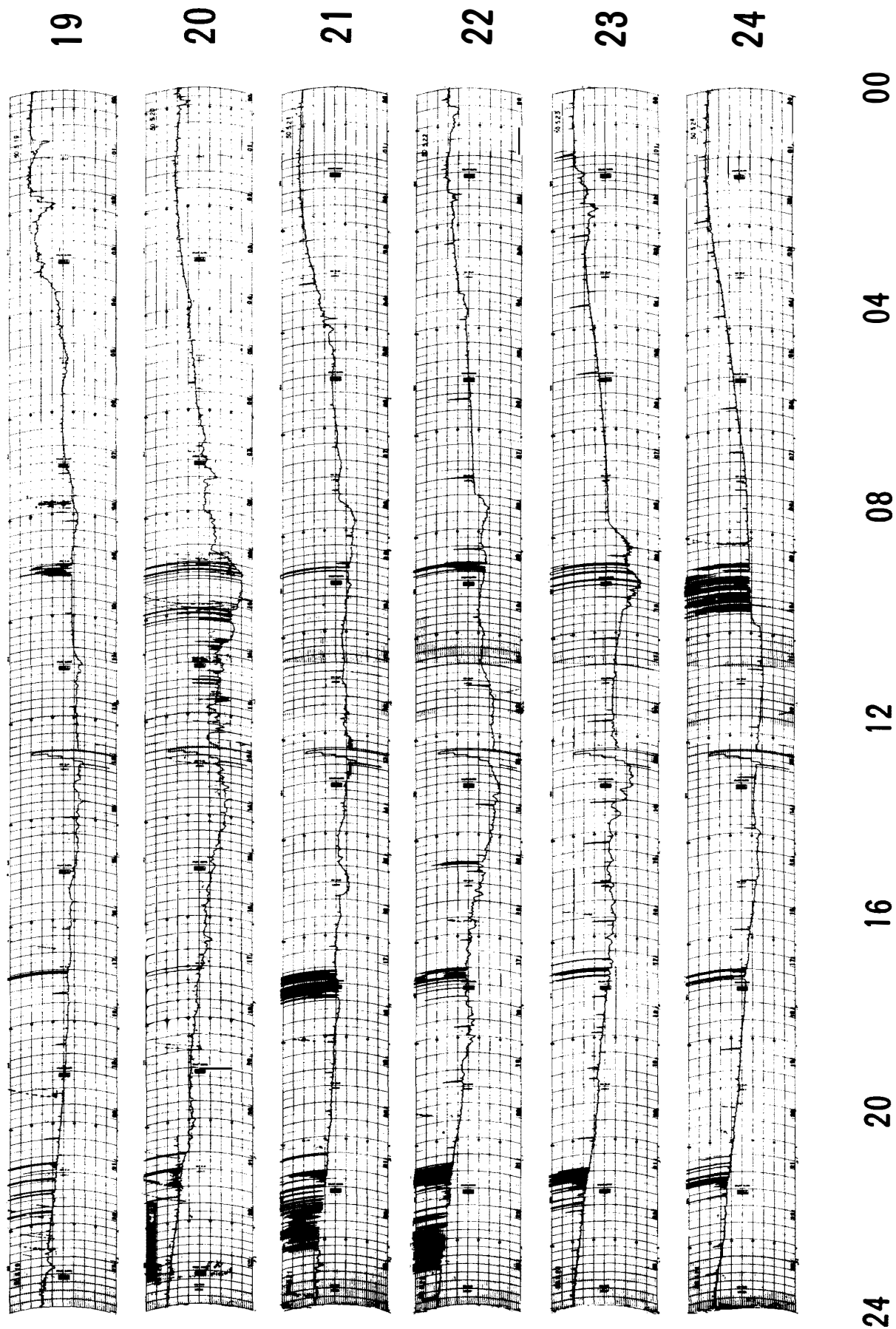
04

00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

MAY 1975



MAY 1975

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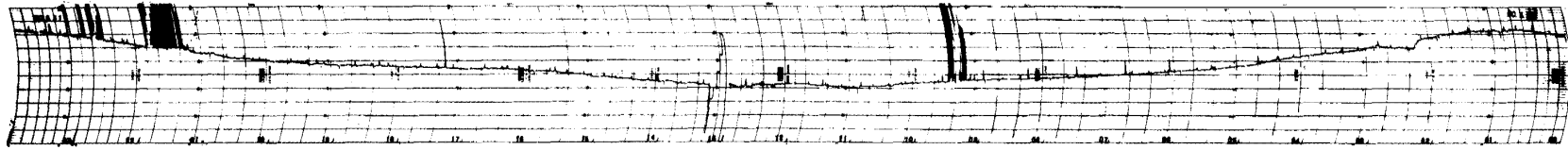
24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

MAY 1975

31



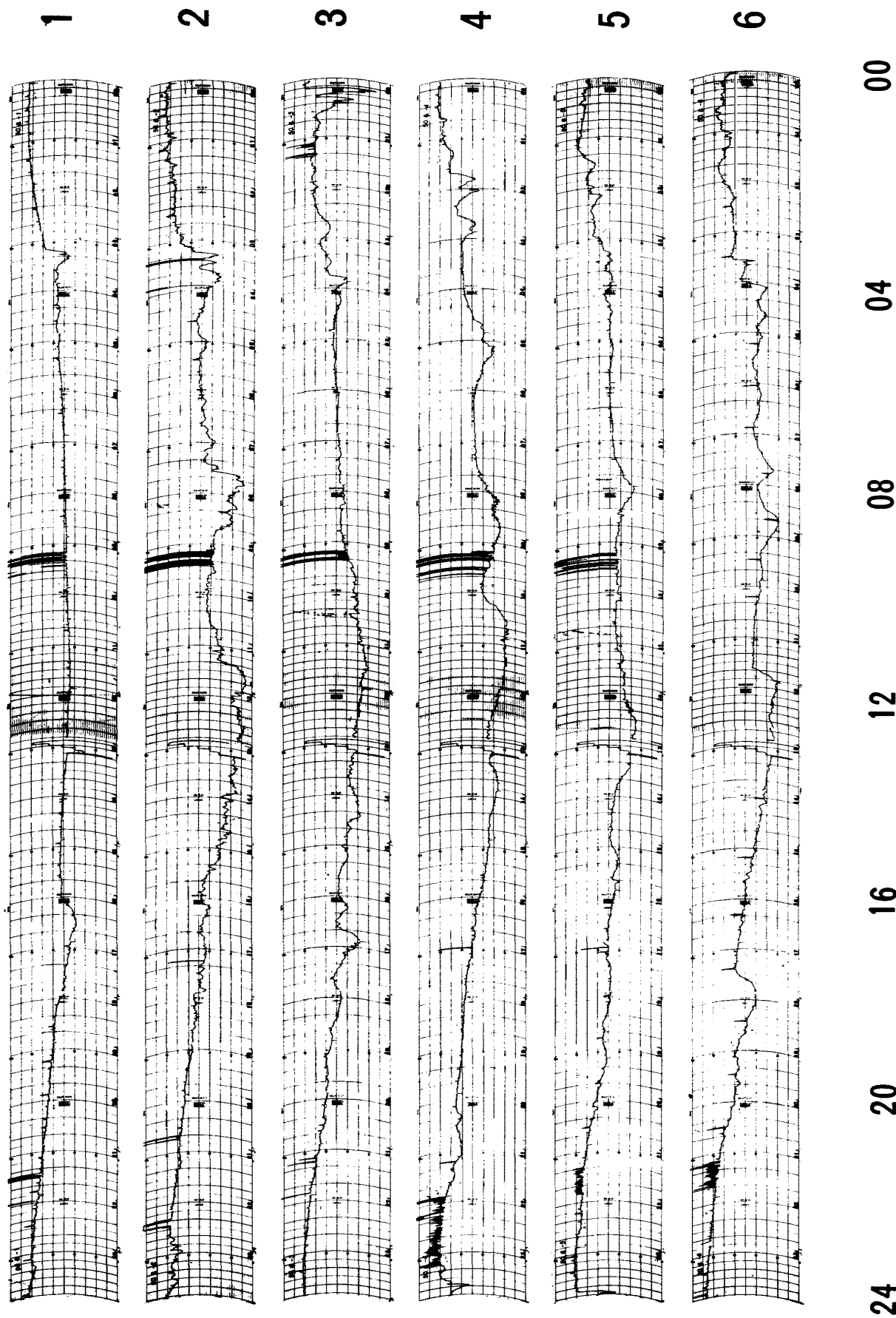
24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS 30 MHz COSMIC NOISE

Cosmic noise level obscured or equipment malfunction.

- | | | |
|-----|-------------|---------------|
| 11. | 1222 – 1335 | interference. |
| 13. | 1000 – 1130 | ” |
| 14. | 2112 – 2215 | ” |
| 26. | 0140 – 0225 | ” |

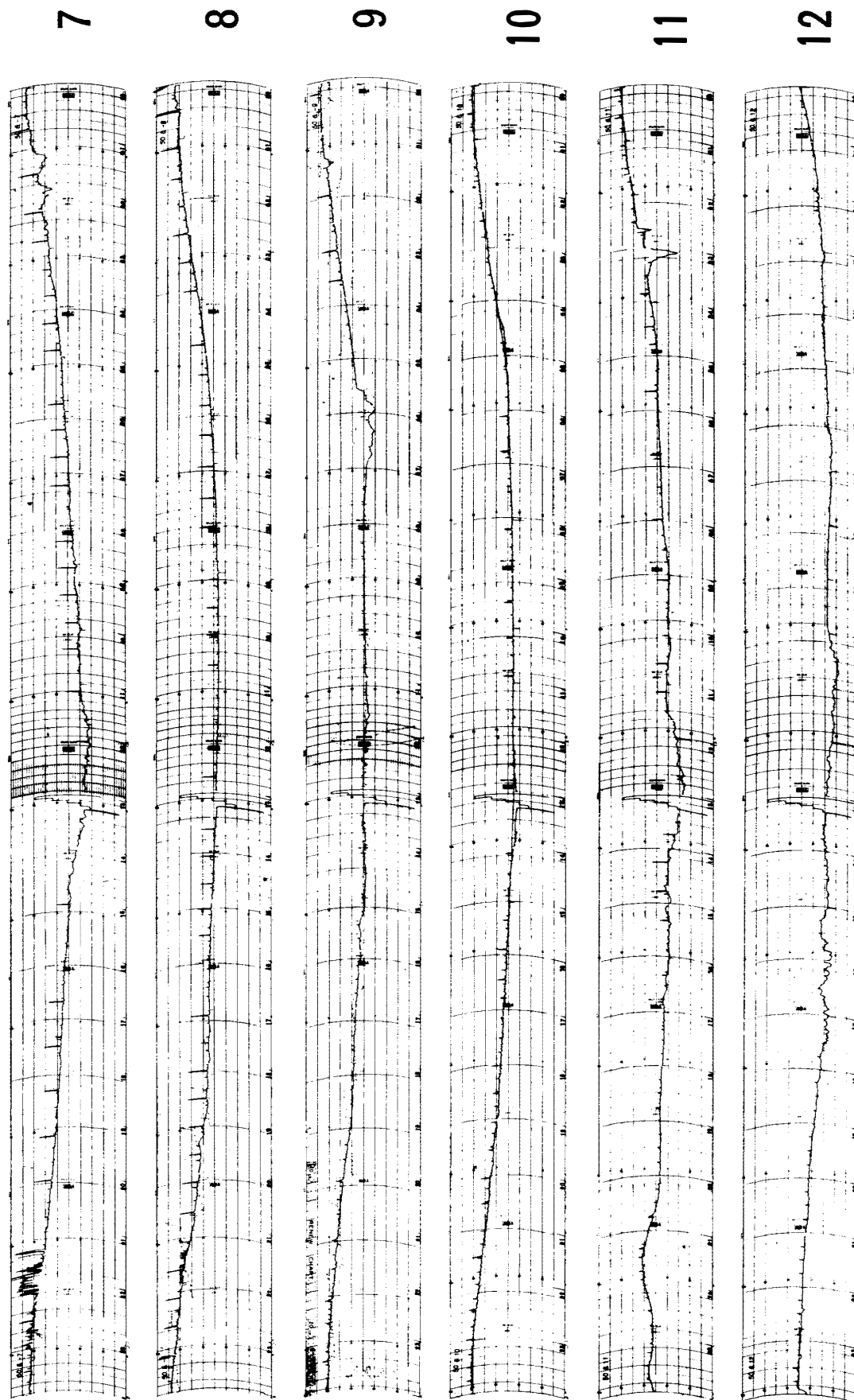
JUNE 1975



30 MHz COSMIC NOISE

45° EAST MERIDIAN TIME IN HOURS

JUNE 1975

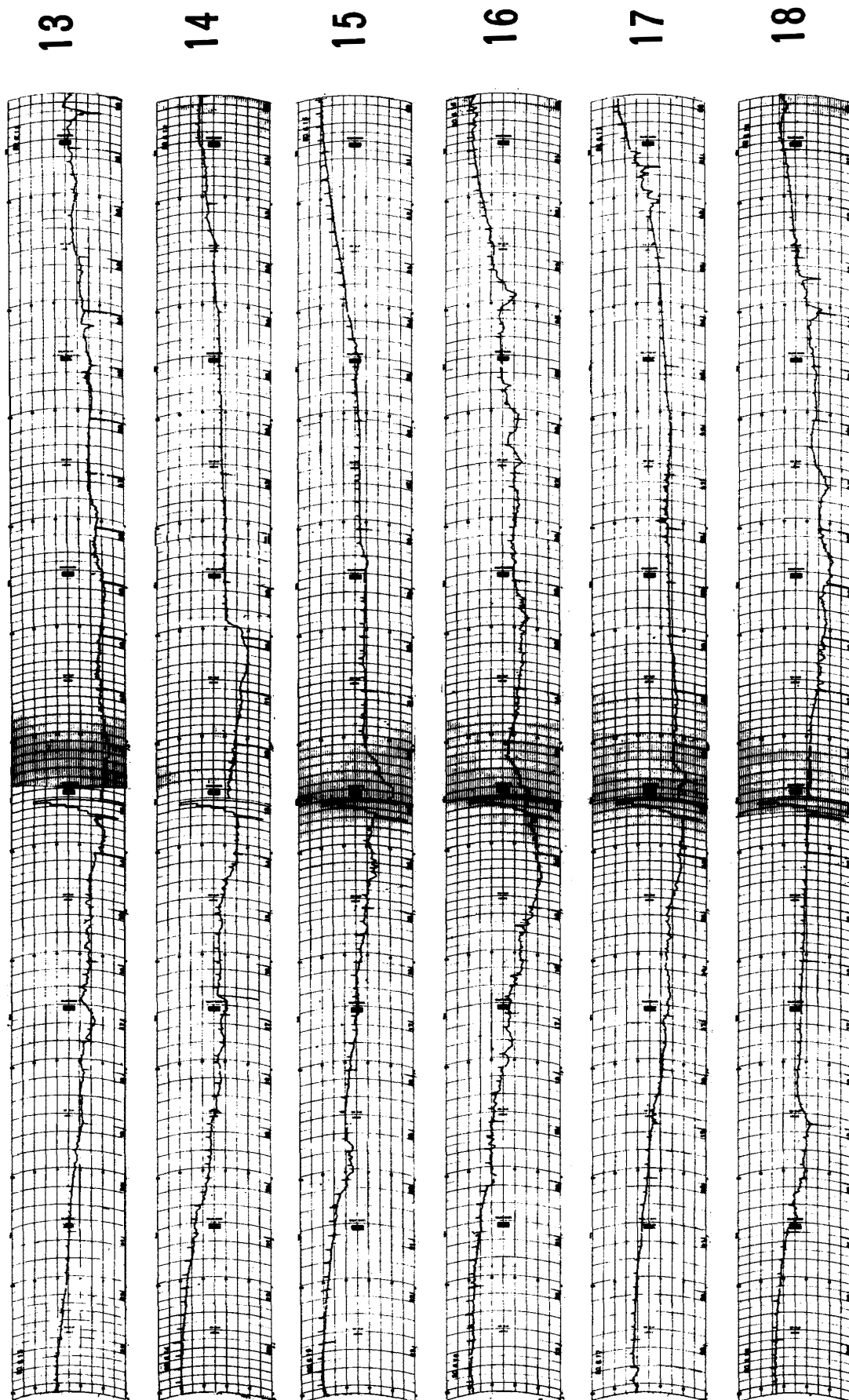


24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JUNE 1975

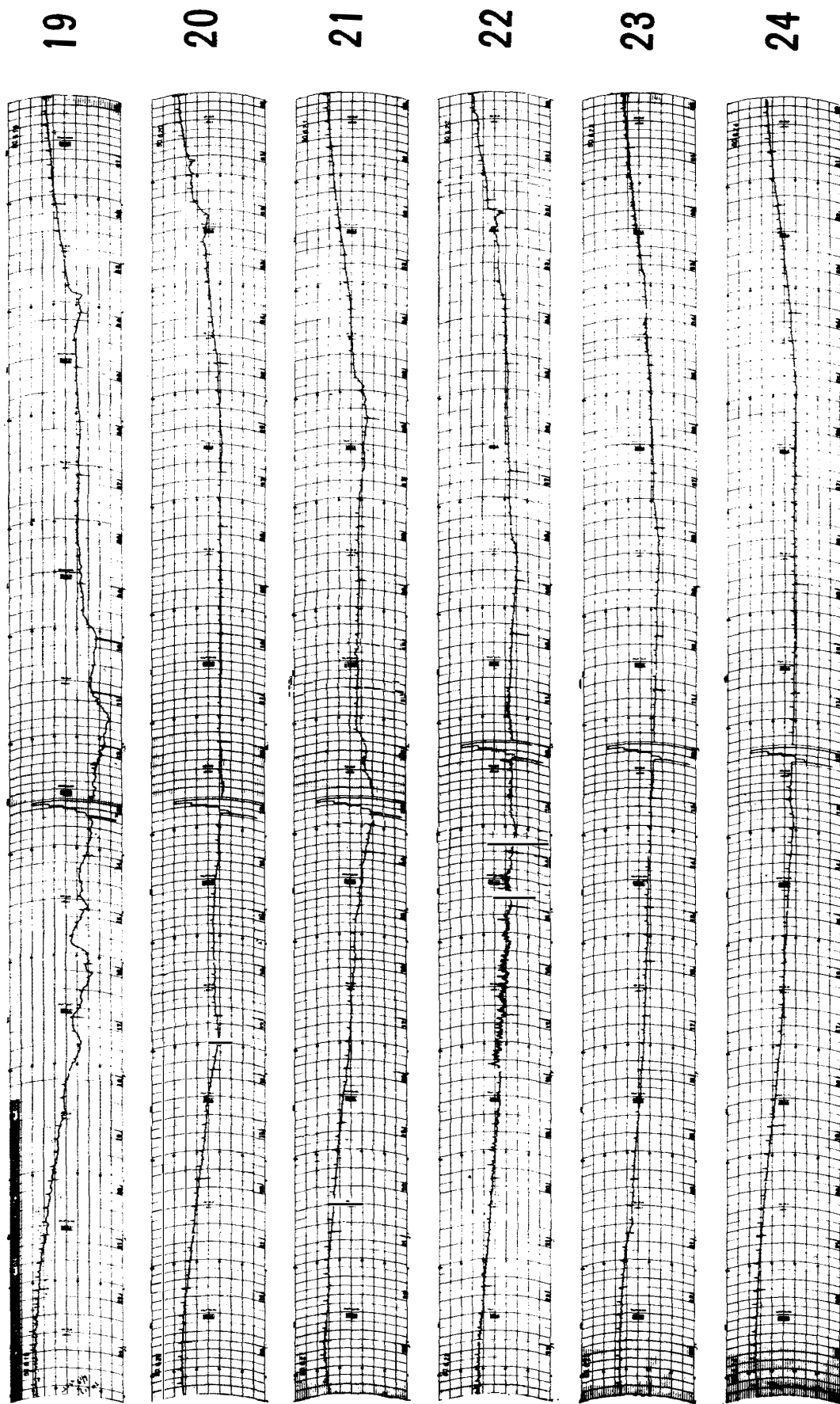


24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JUNE 1975



24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JUNE 1975

25

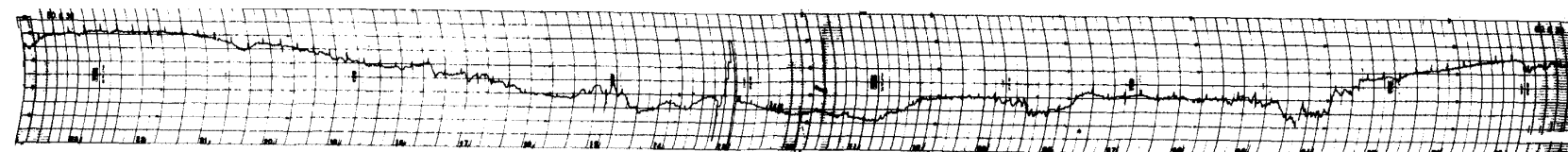
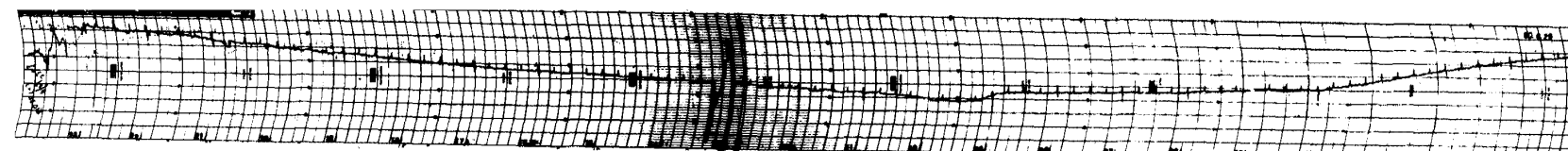
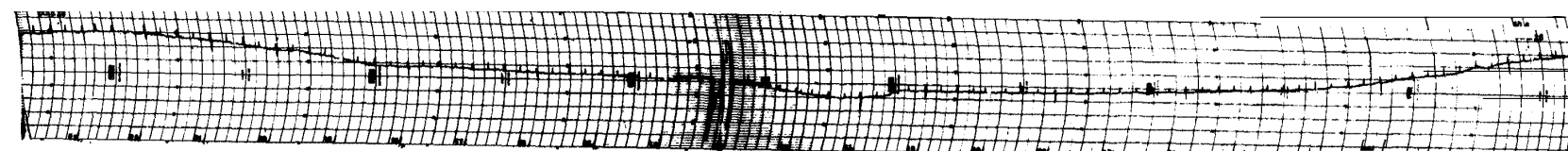
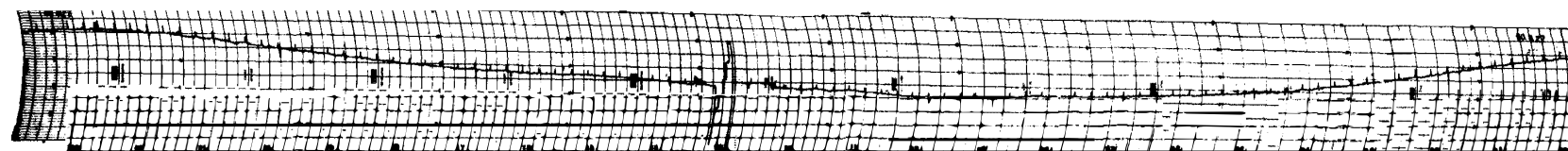
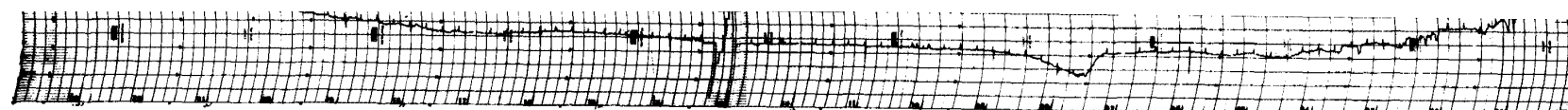
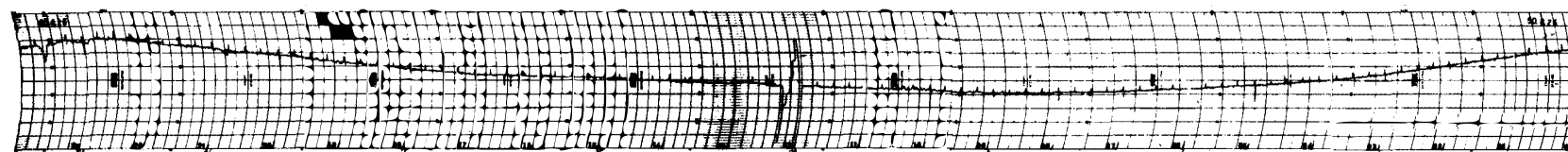
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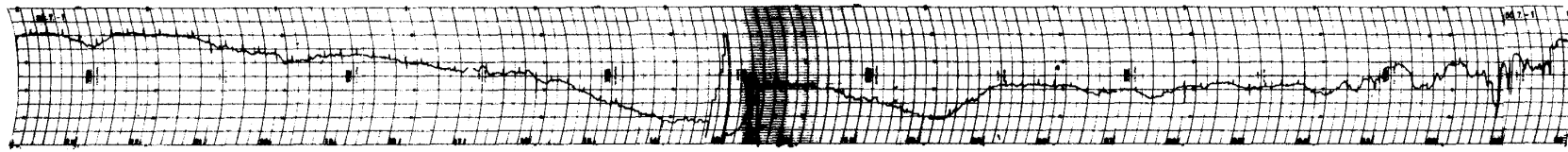


24 20 16 12 08 04 00

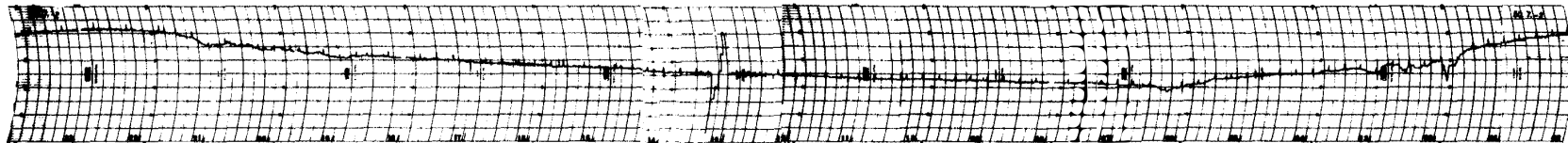
45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

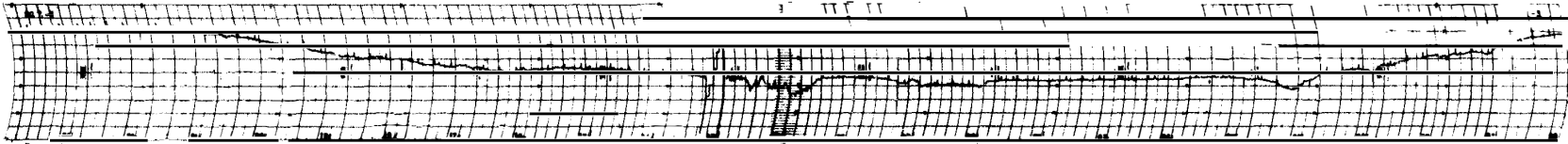
JULY 1975



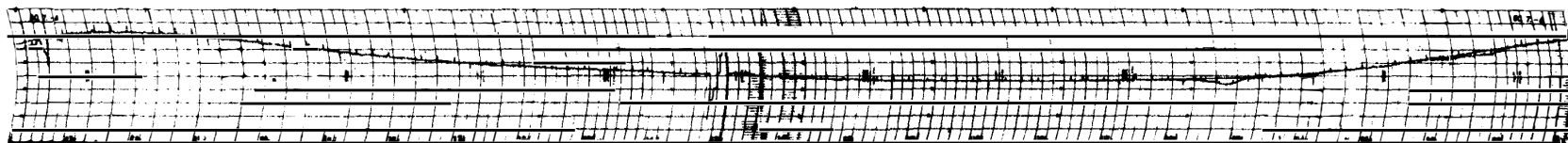
1



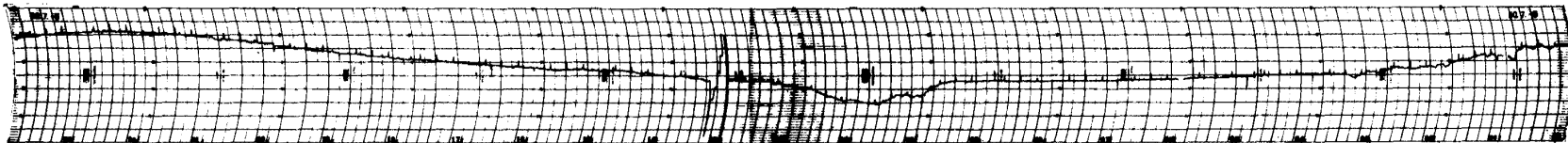
2



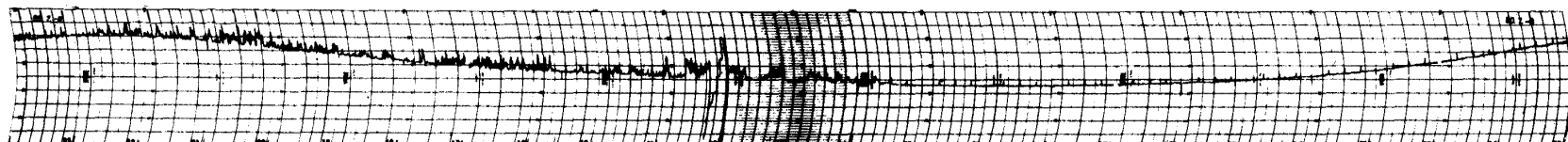
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24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JULY 1975

7

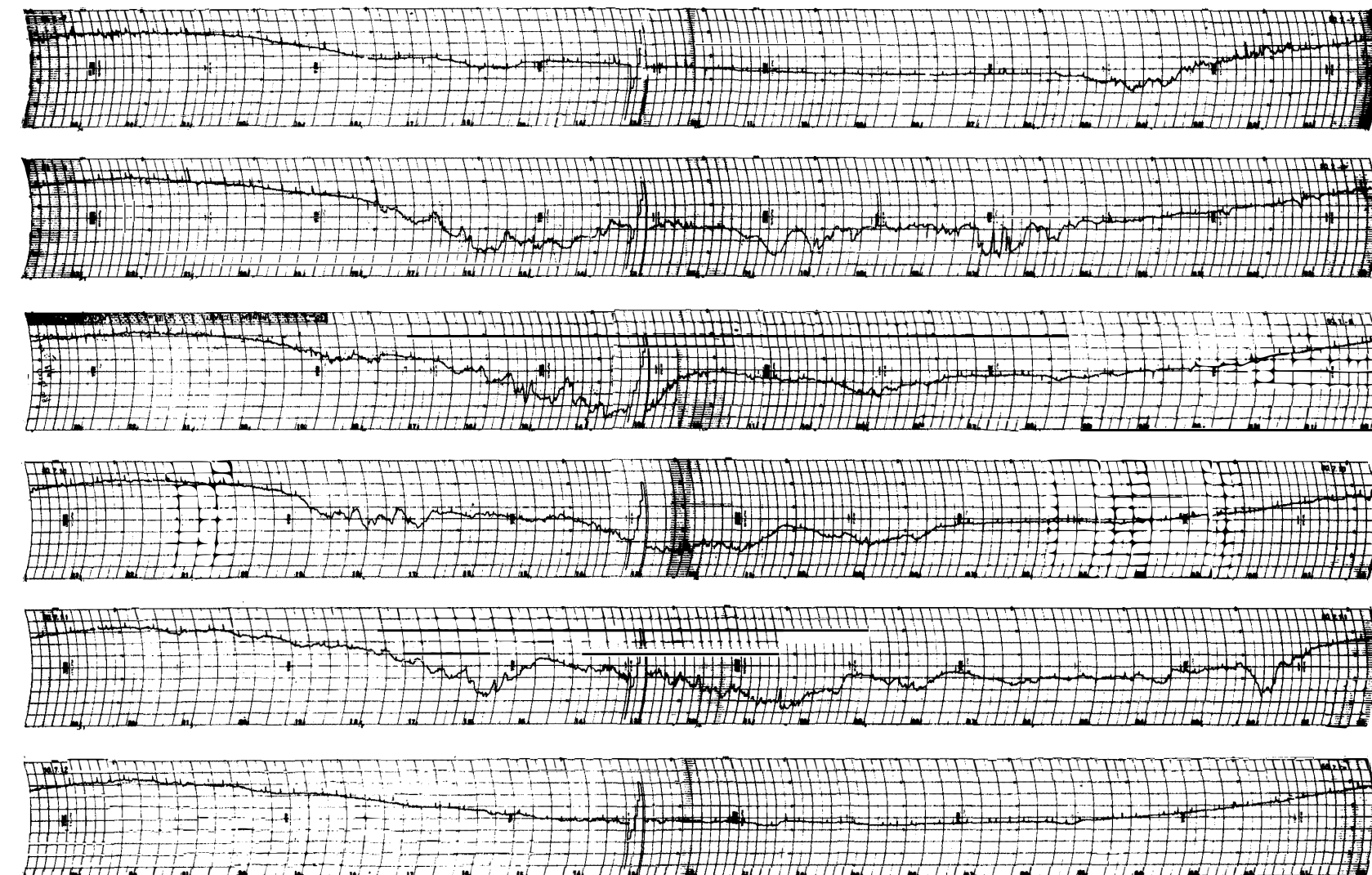
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24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JULY 1975

13

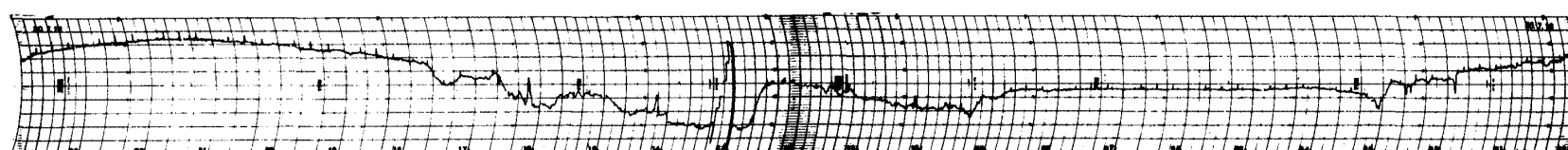
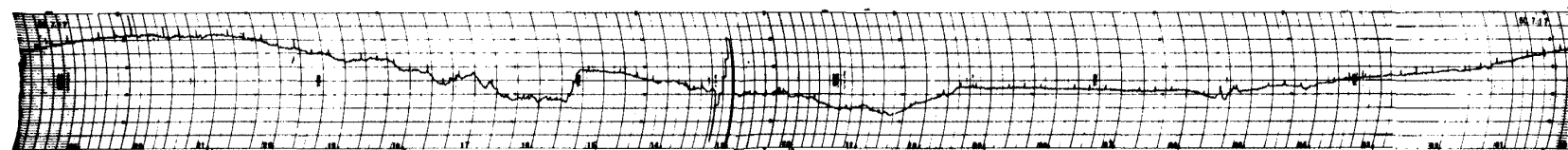
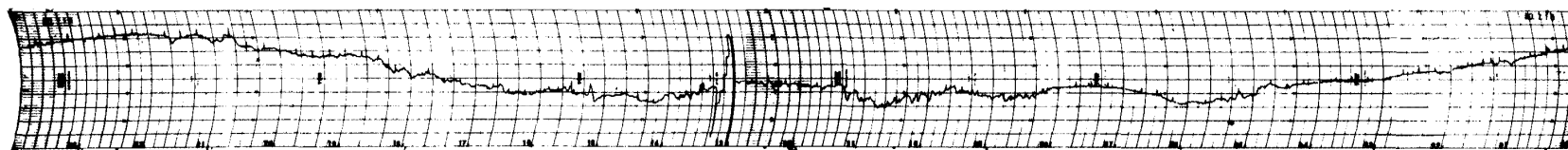
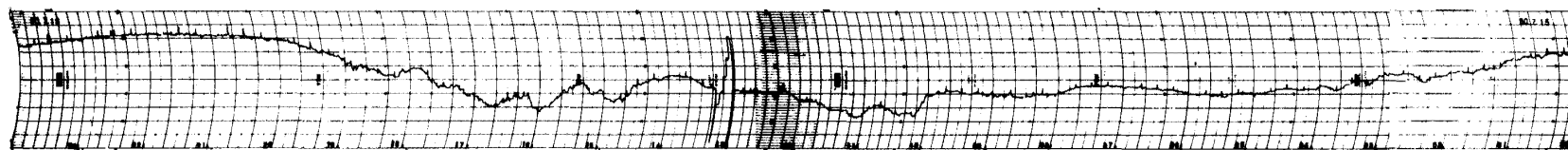
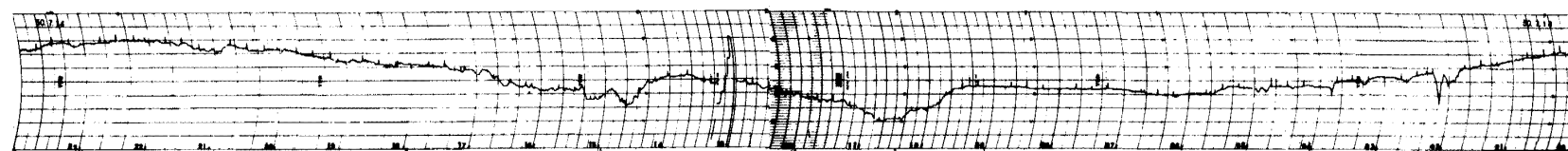
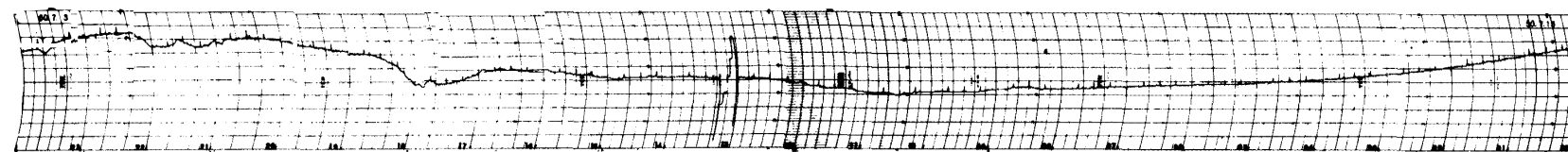
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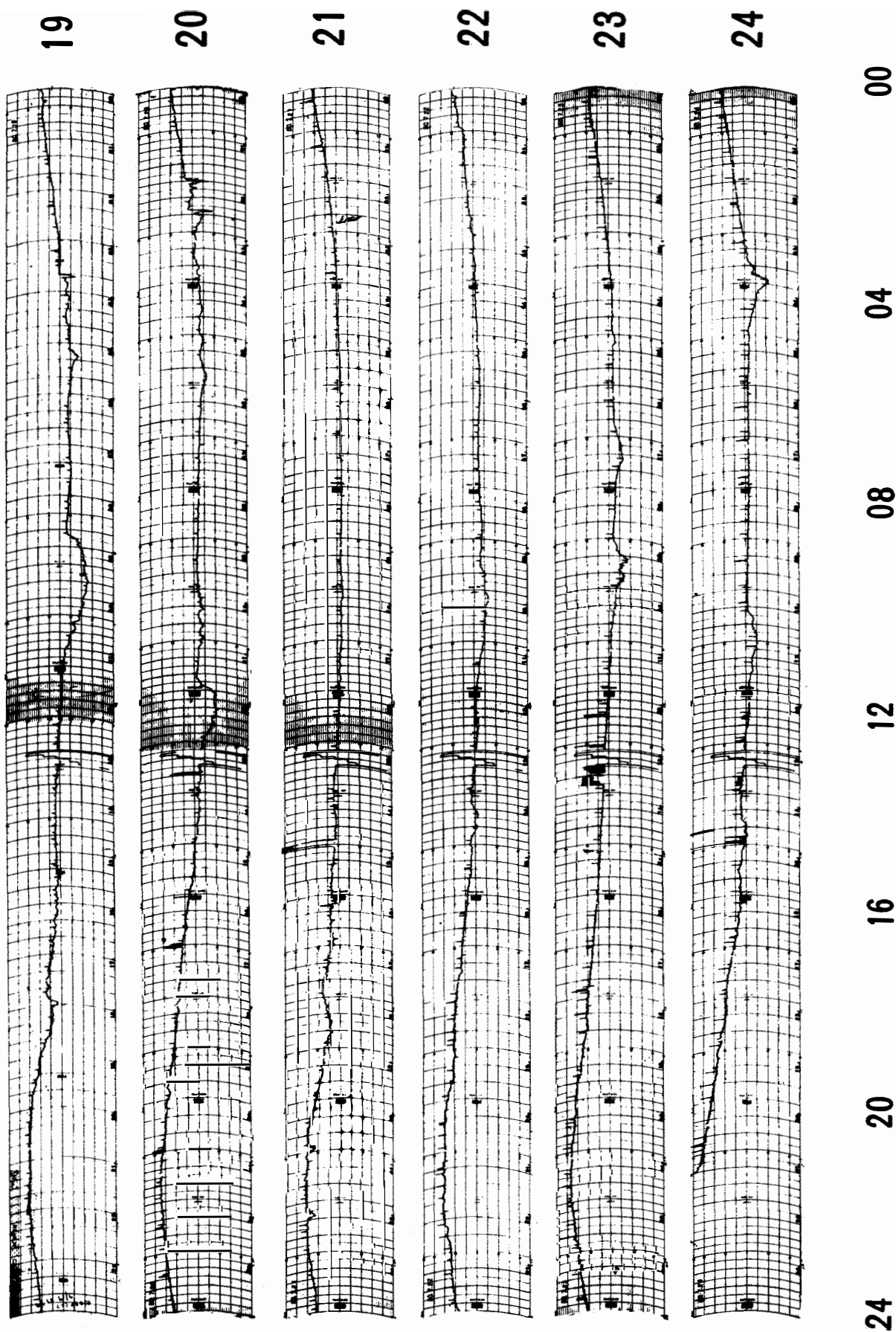


24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JULY 1975



30 MHz COSMIC NOISE

45° EAST MERIDIAN TIME IN HOURS

JULY 1975

25

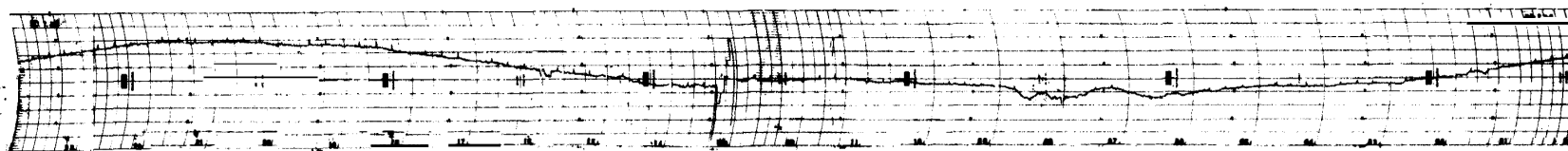
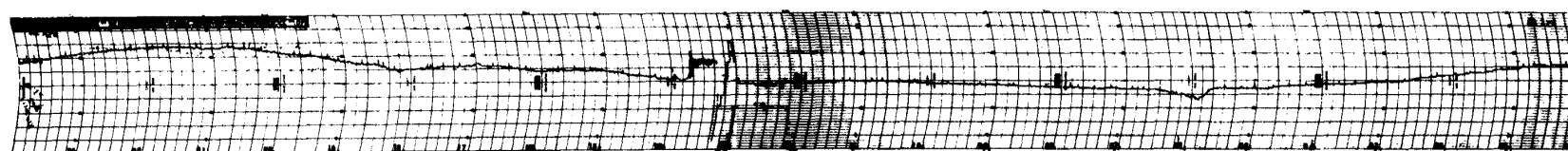
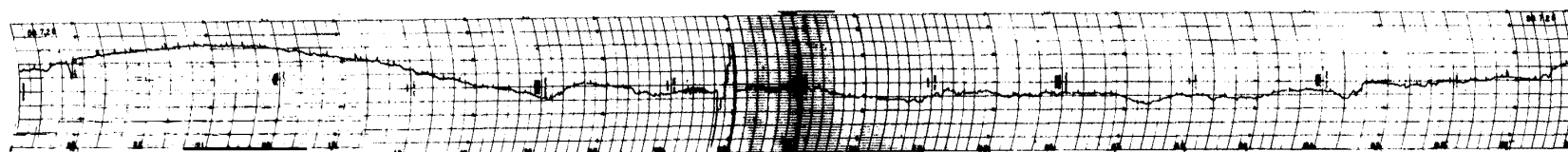
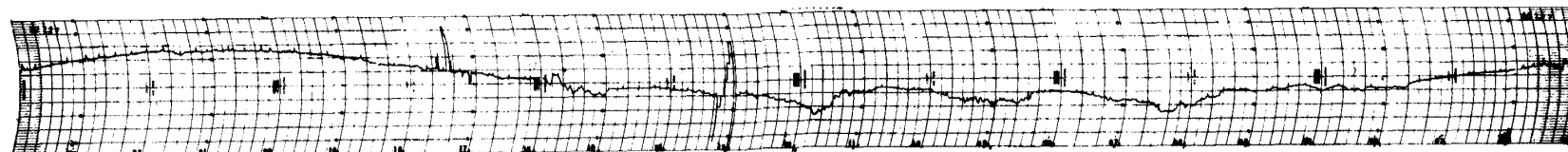
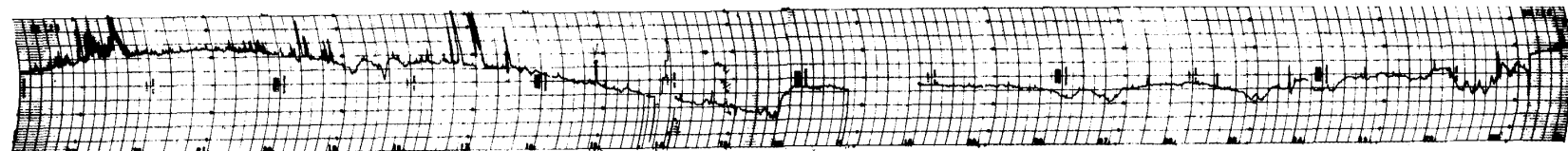
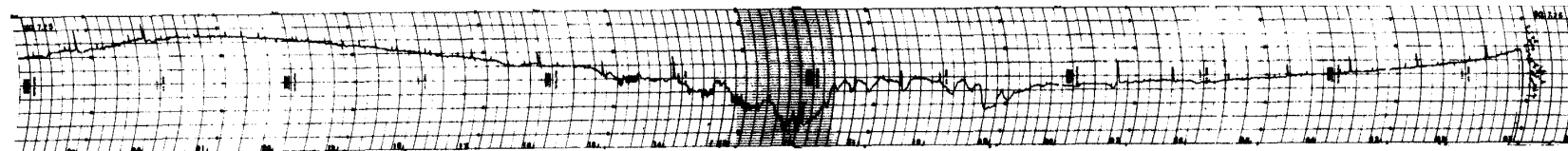
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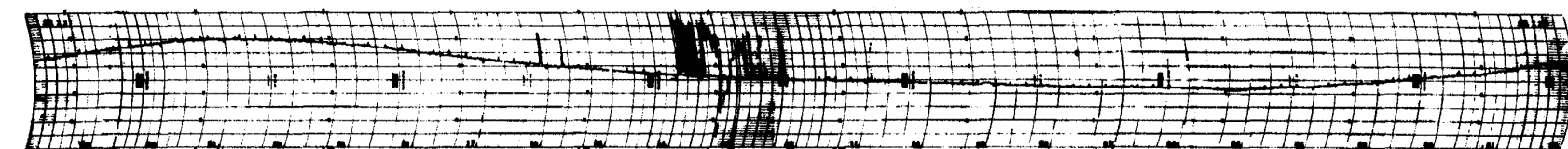
00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

JULY 1975

31



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45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

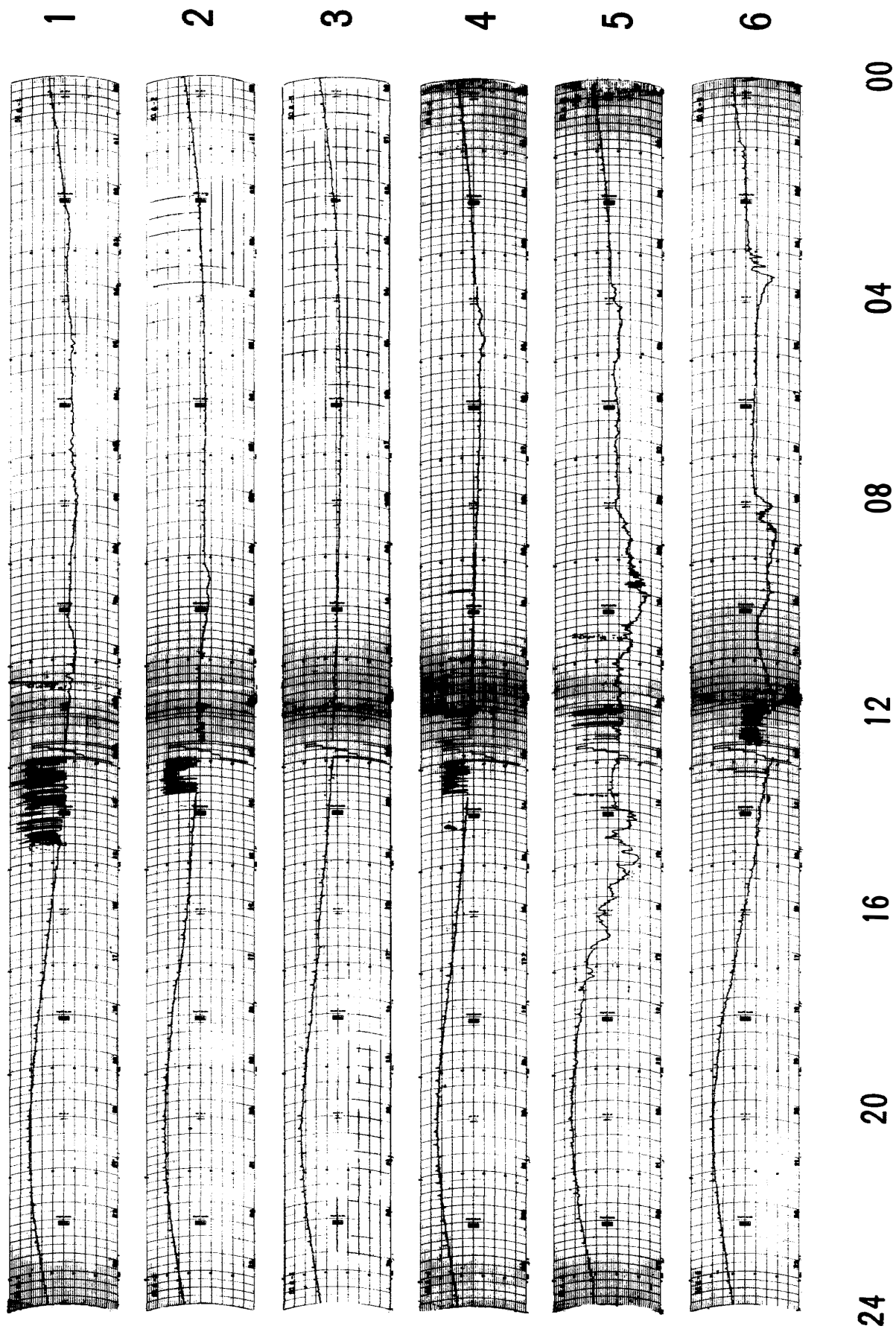
Cosmic noise level obscured or equipment malfunction.

24. 2100 -

25. 0100 failure of equipment.

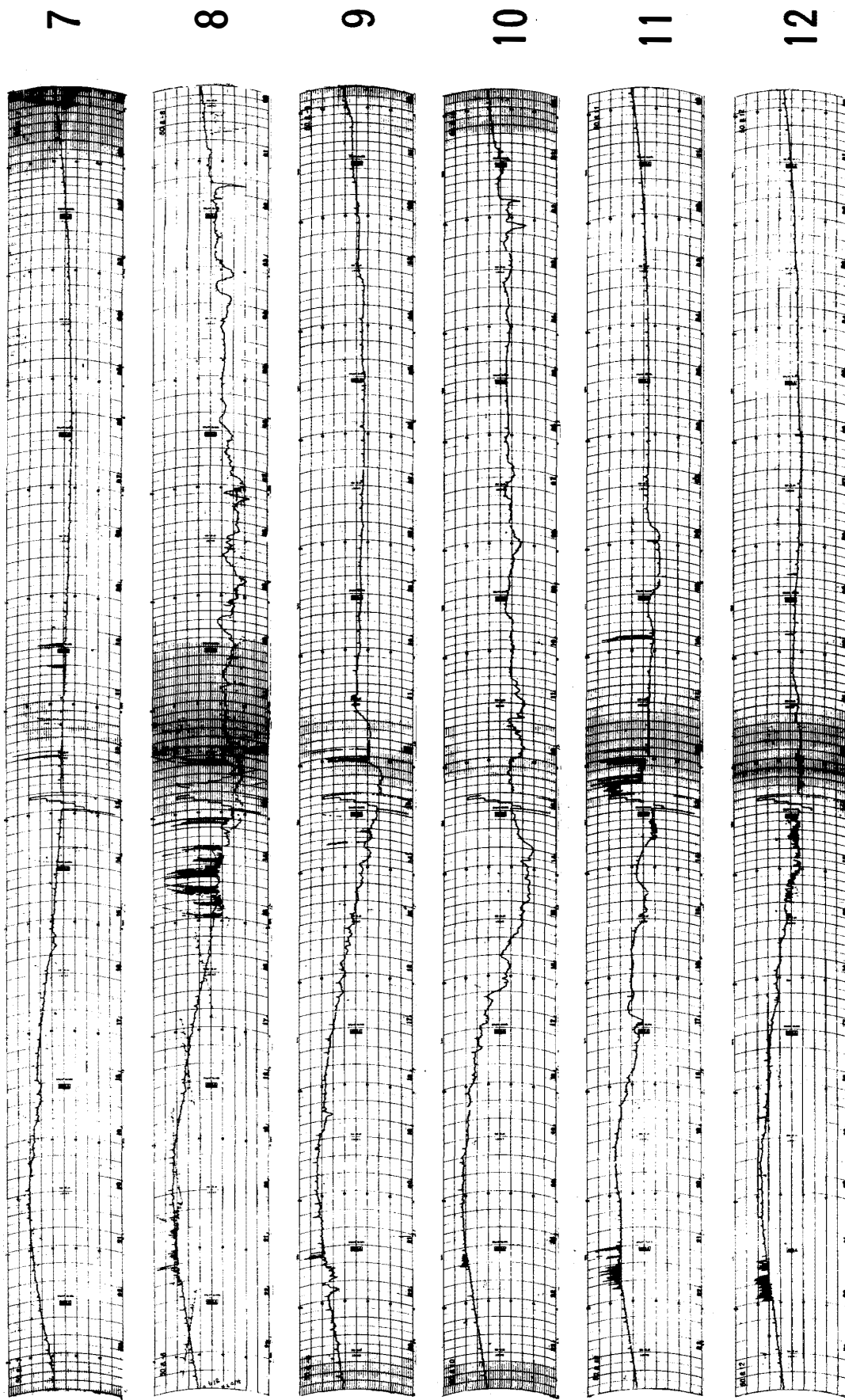
26. 1000 - 1100 "

AUG 1975



45° EAST MERIDIAN TIME IN HOURS

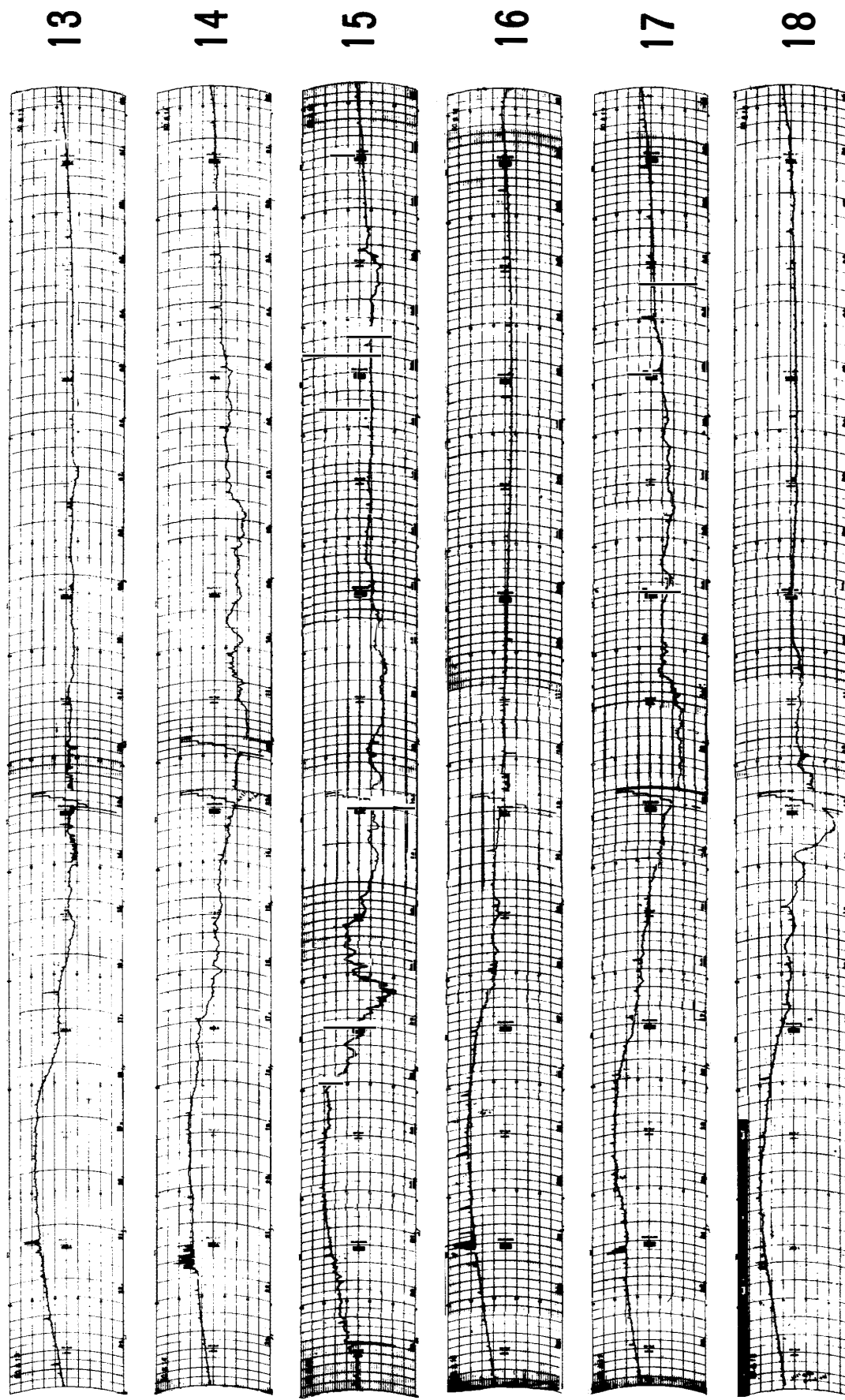
AUG 1975



45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

AUG 1975



24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

AUG 1975

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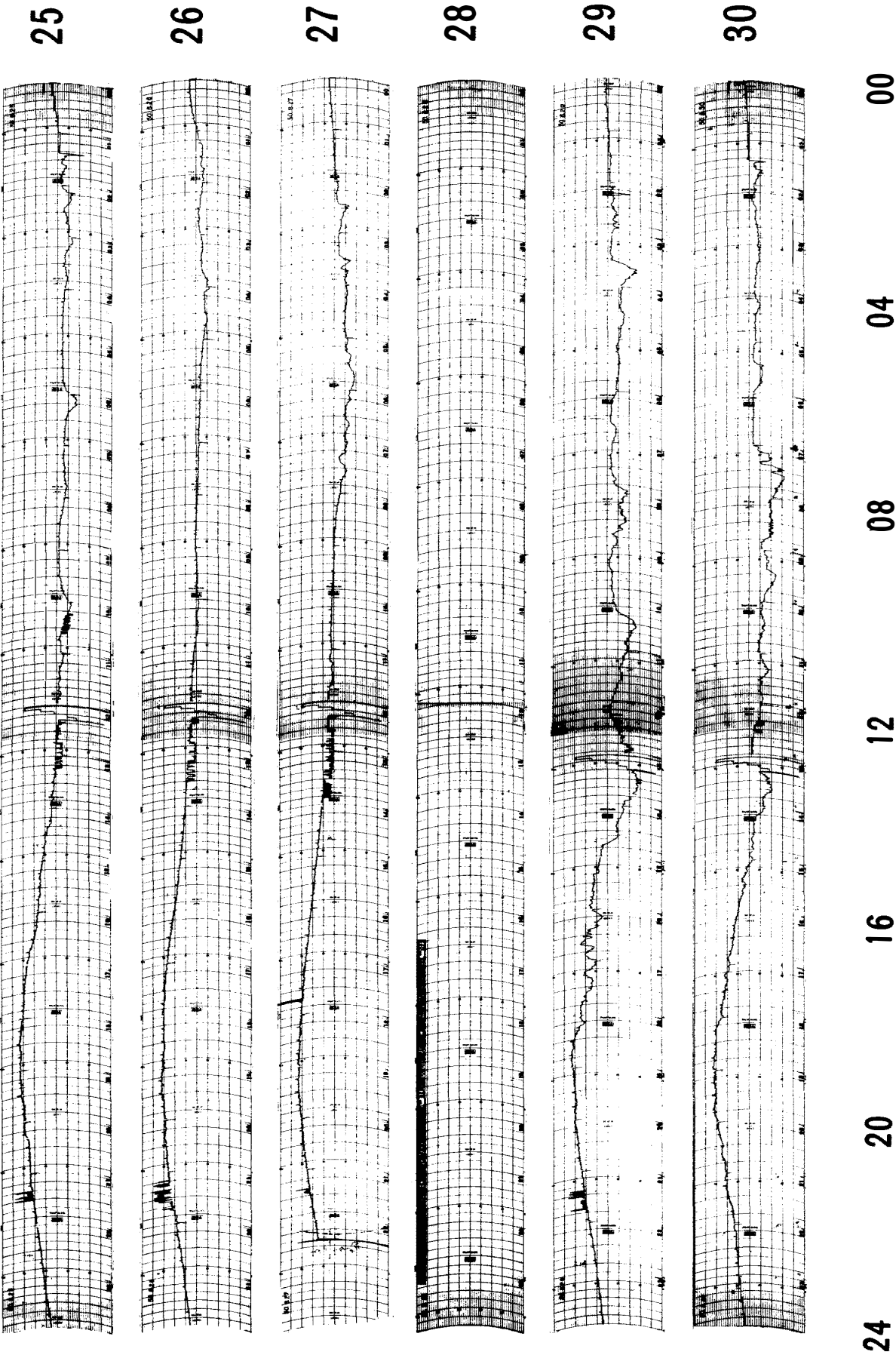
24

24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

AUG 1975

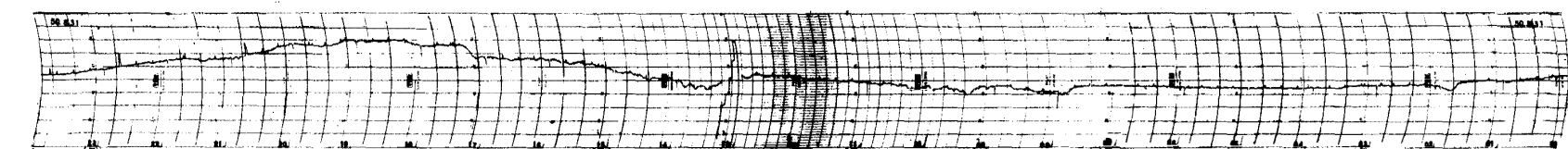


30 MHz COSMIC NOISE

45° EAST MERIDIAN TIME IN HOURS

AUG 1975

31



24 20 16 12 08 04 00

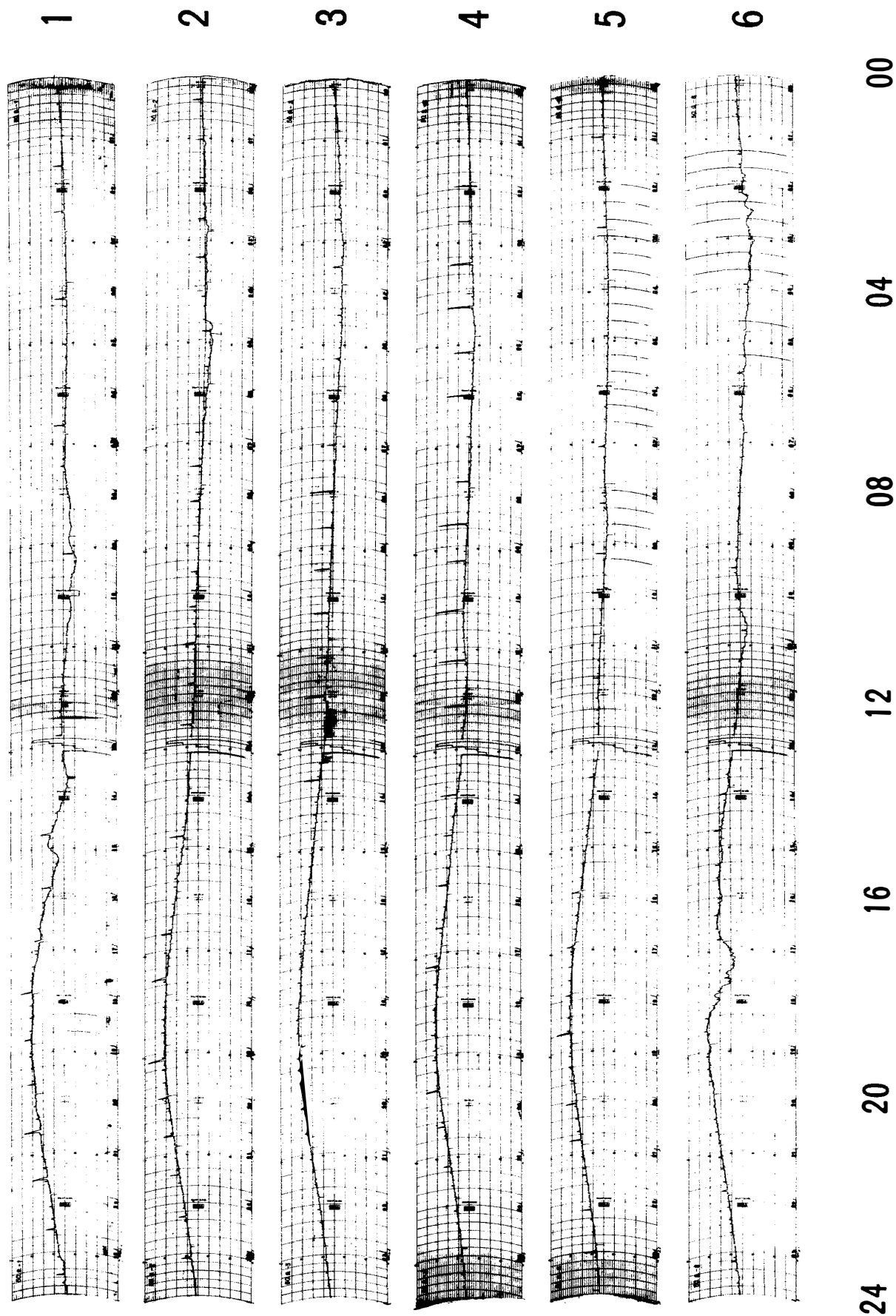
45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

Cosmic noise level obscured or equipment malfunction.

- | | | |
|-----|--------|-----------------------|
| 21. | 1200 — | |
| 22. | 1450 | failure of equipment. |
| 27. | 2220 — | |
| 28. | 2359 | " |

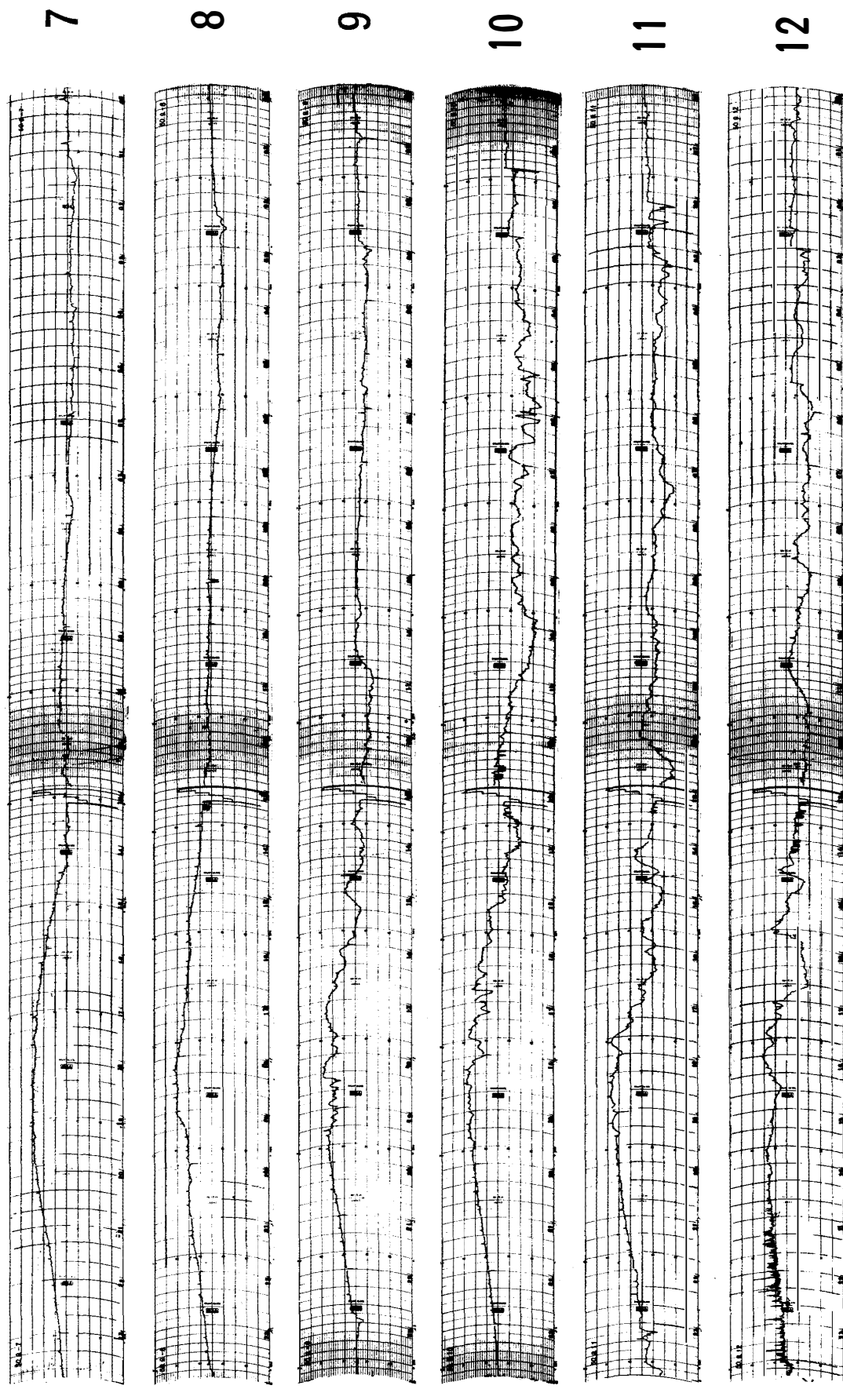
SEP 1975



30 MHz COSMIC NOISE

45° EAST MERIDIAN TIME IN HOURS

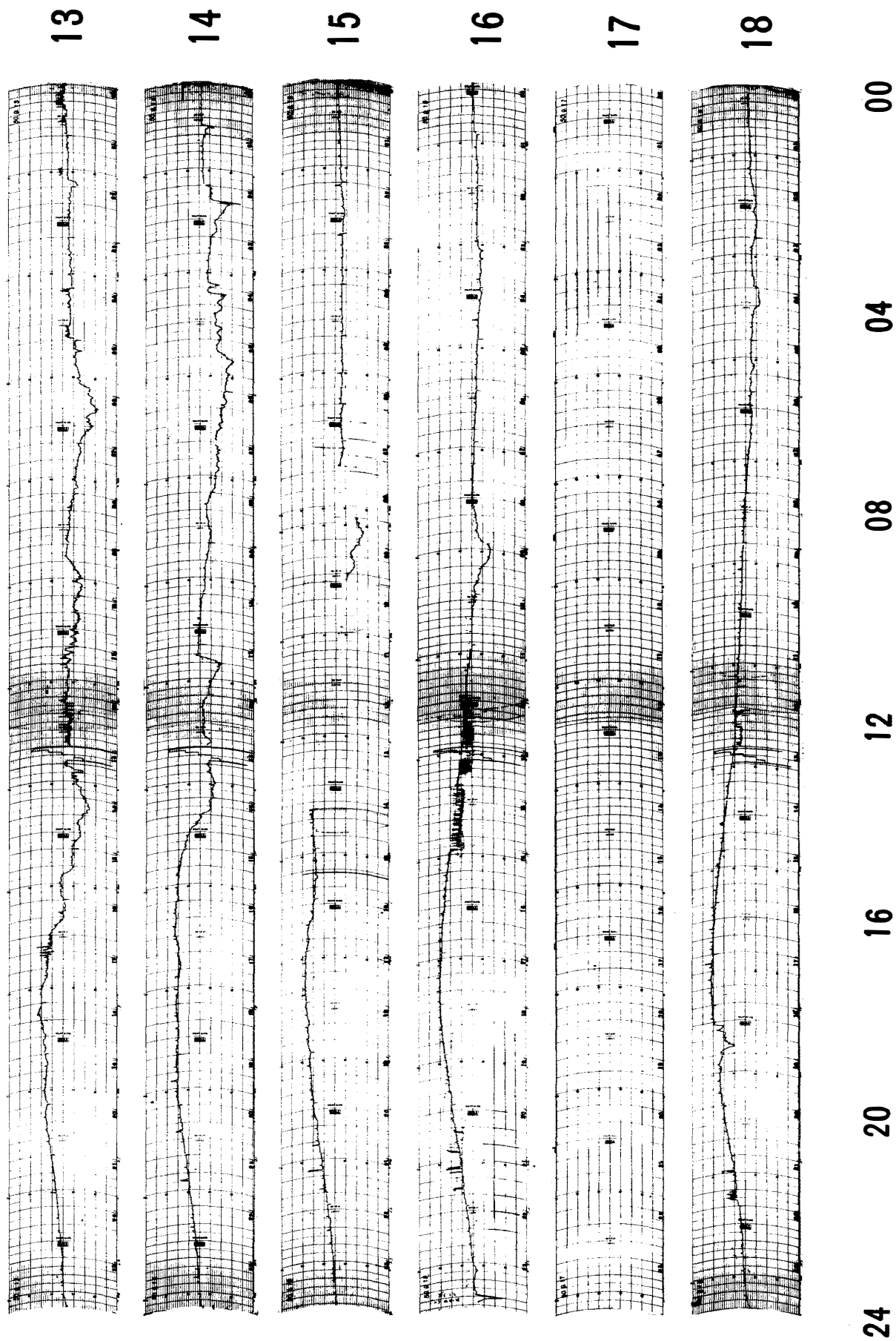
SEP 1975



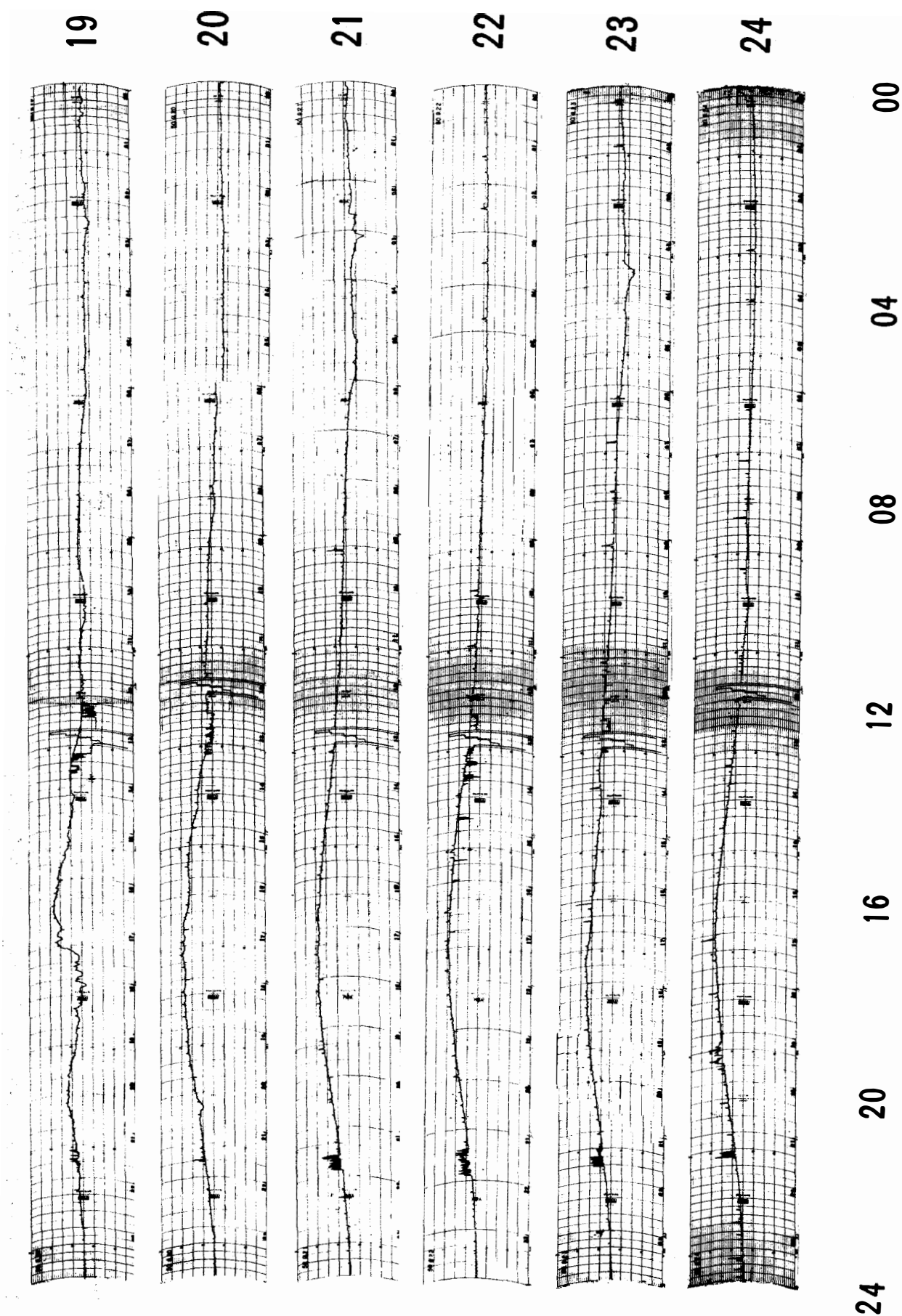
30 MHz COSMIC NOISE

45° EAST MERIDIAN TIME IN HOURS

SEP 1975



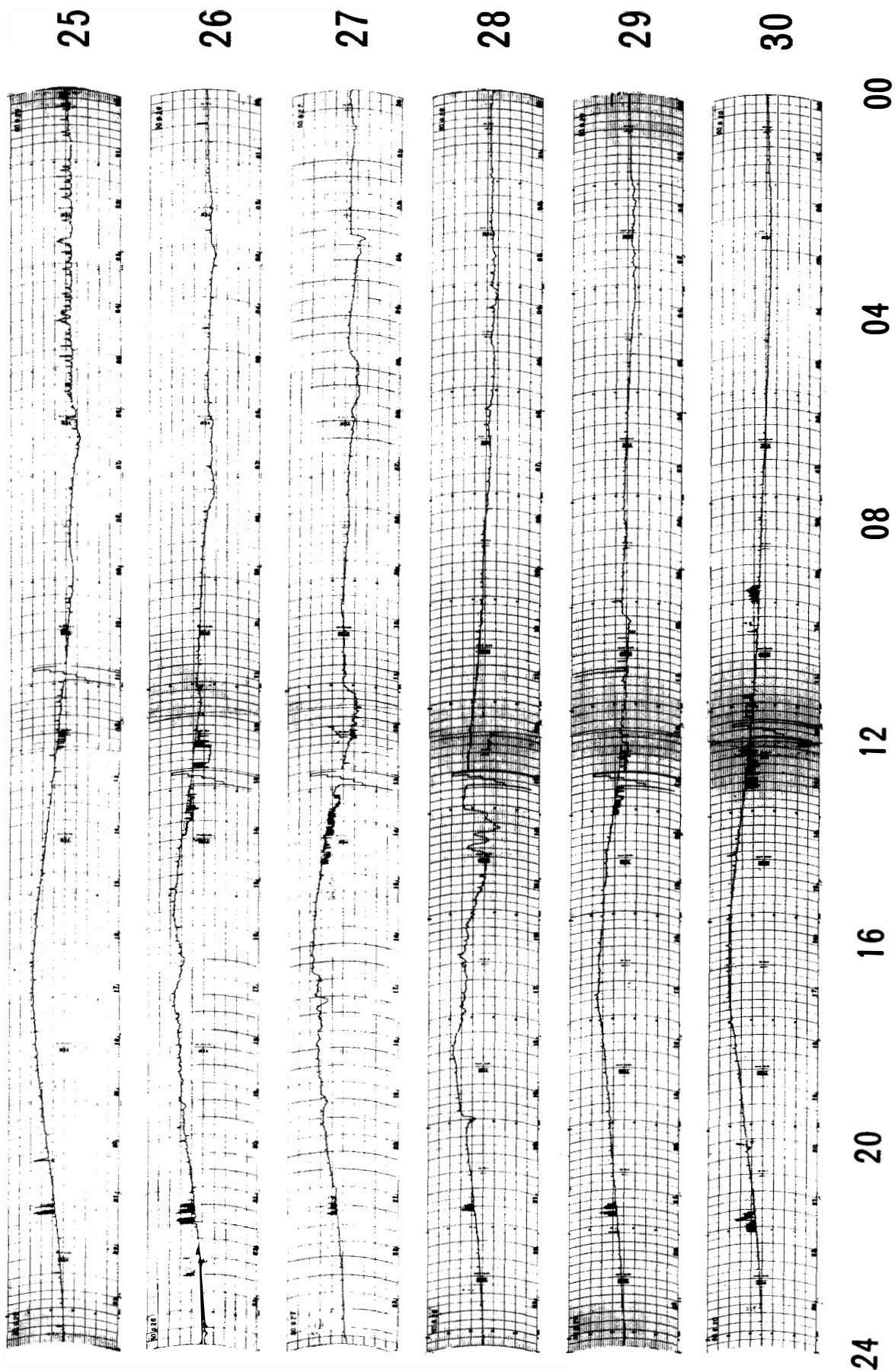
SEP 1975



45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

SEP 1975



30 MHz COSMIC NOISE

45° EAST MERIDIAN TIME IN HOURS

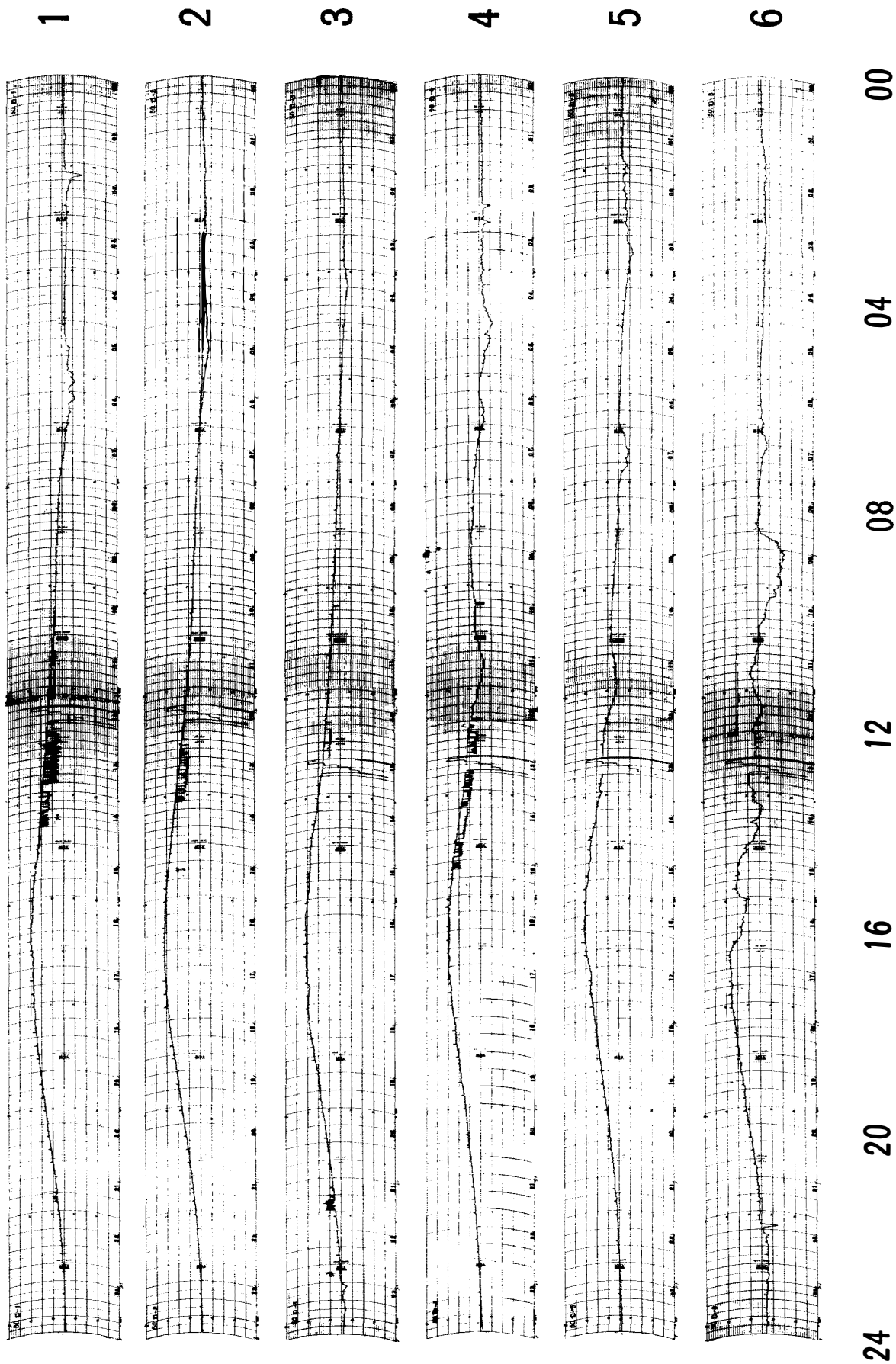
Cosmic noise level obscured or equipment malfunction.

15. 0730 – 0830 failure of equipment.

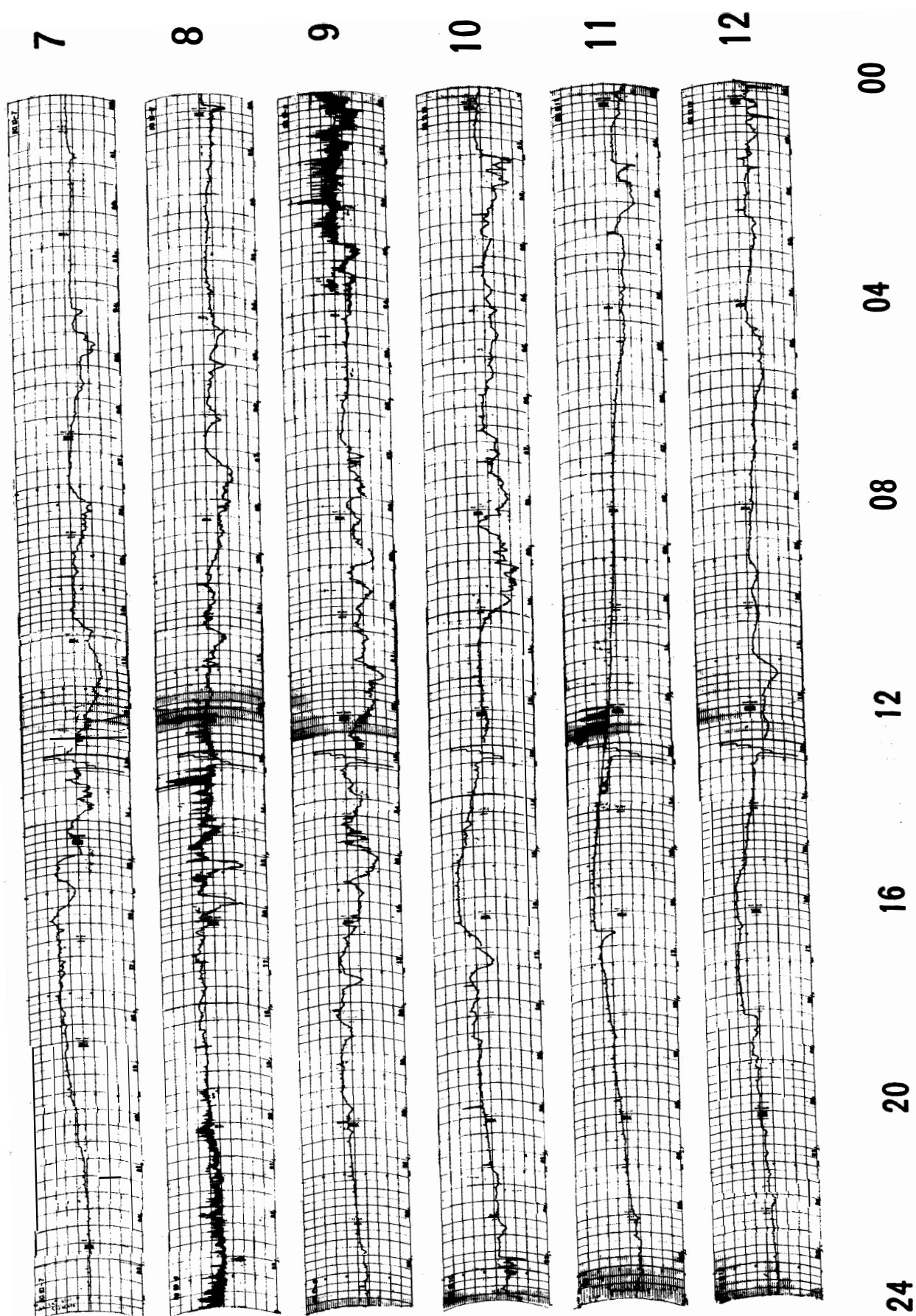
15. 0940 – 1530 "

17. 0000 – 2359 "

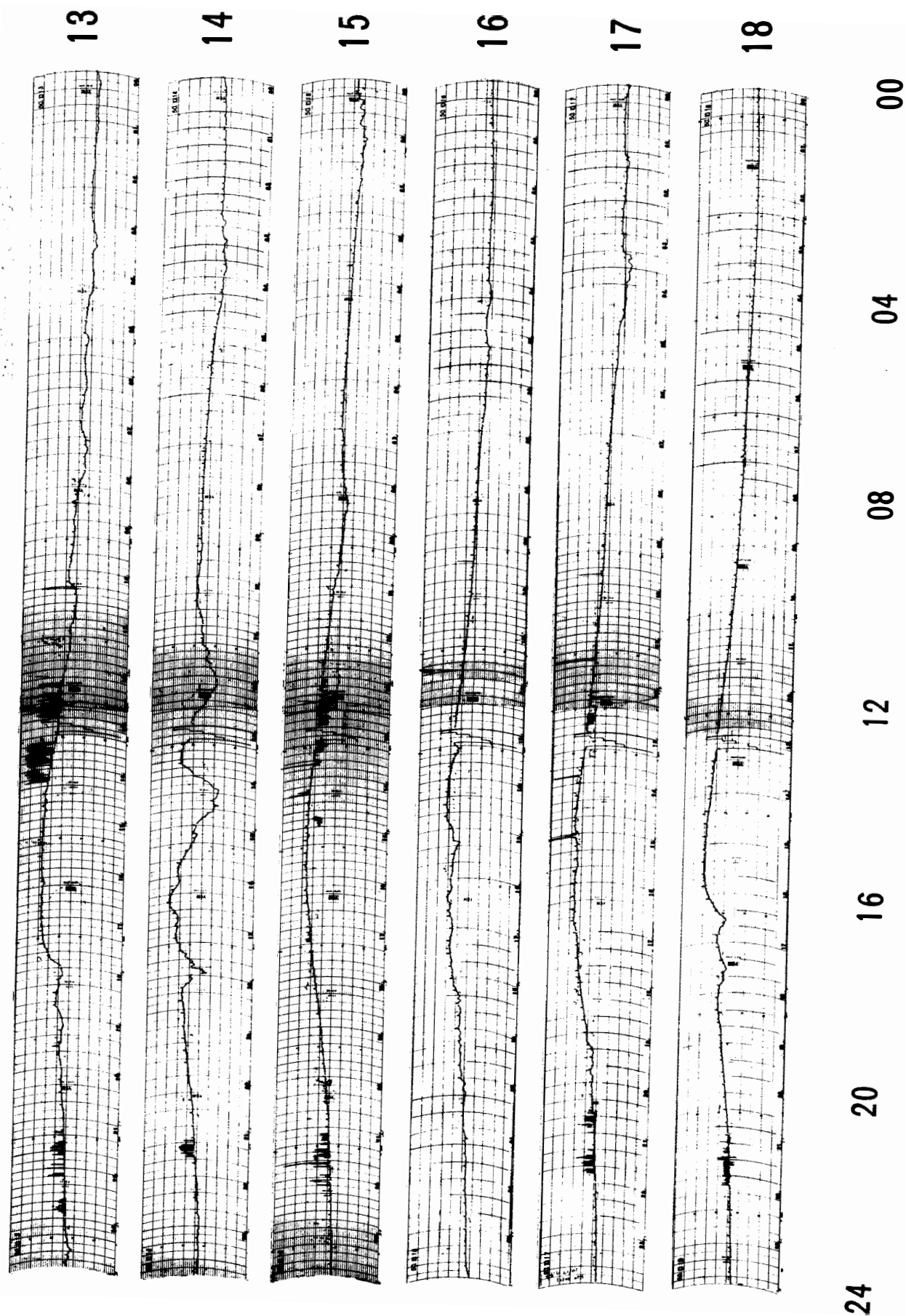
OCT 1975



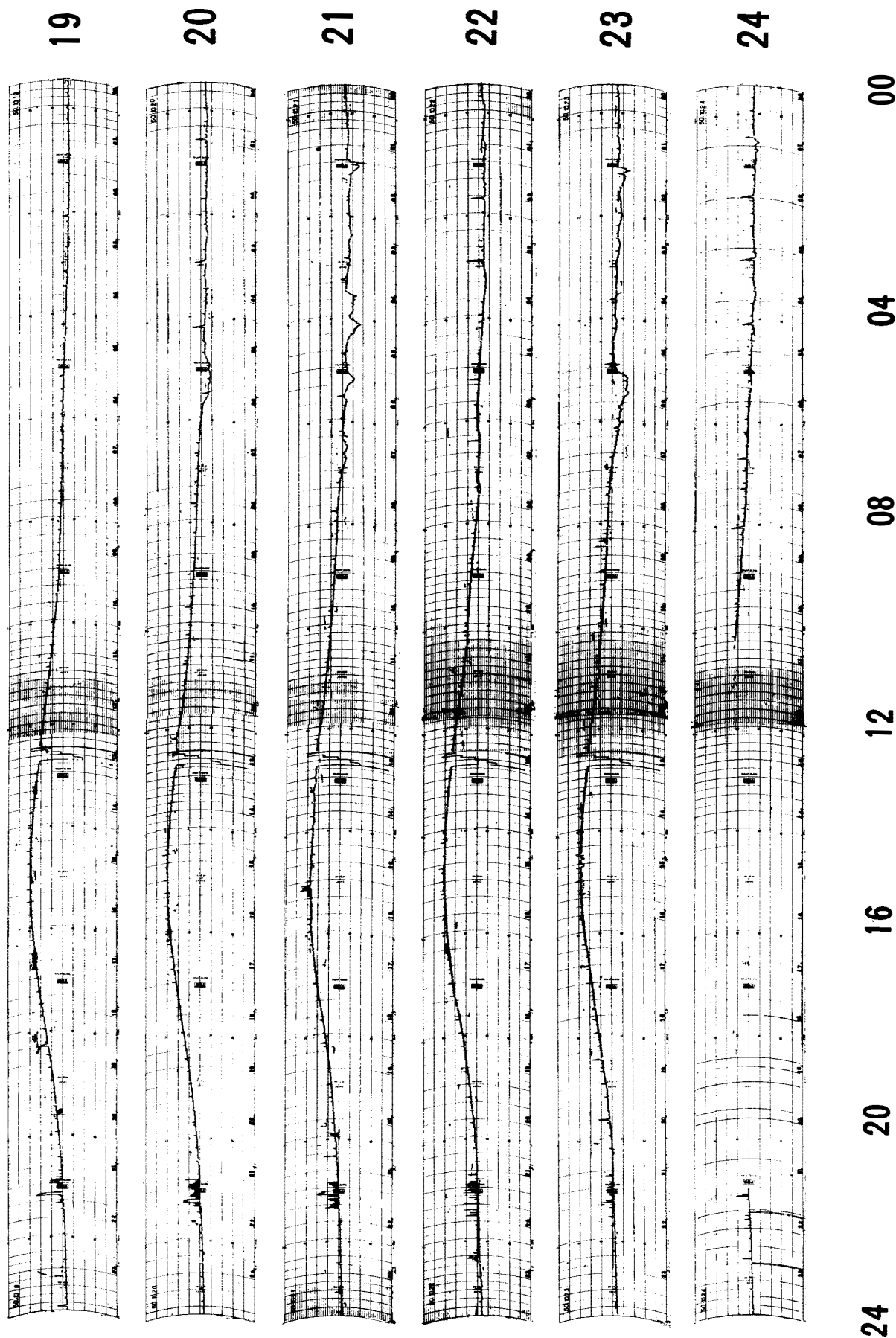
OCT 1975



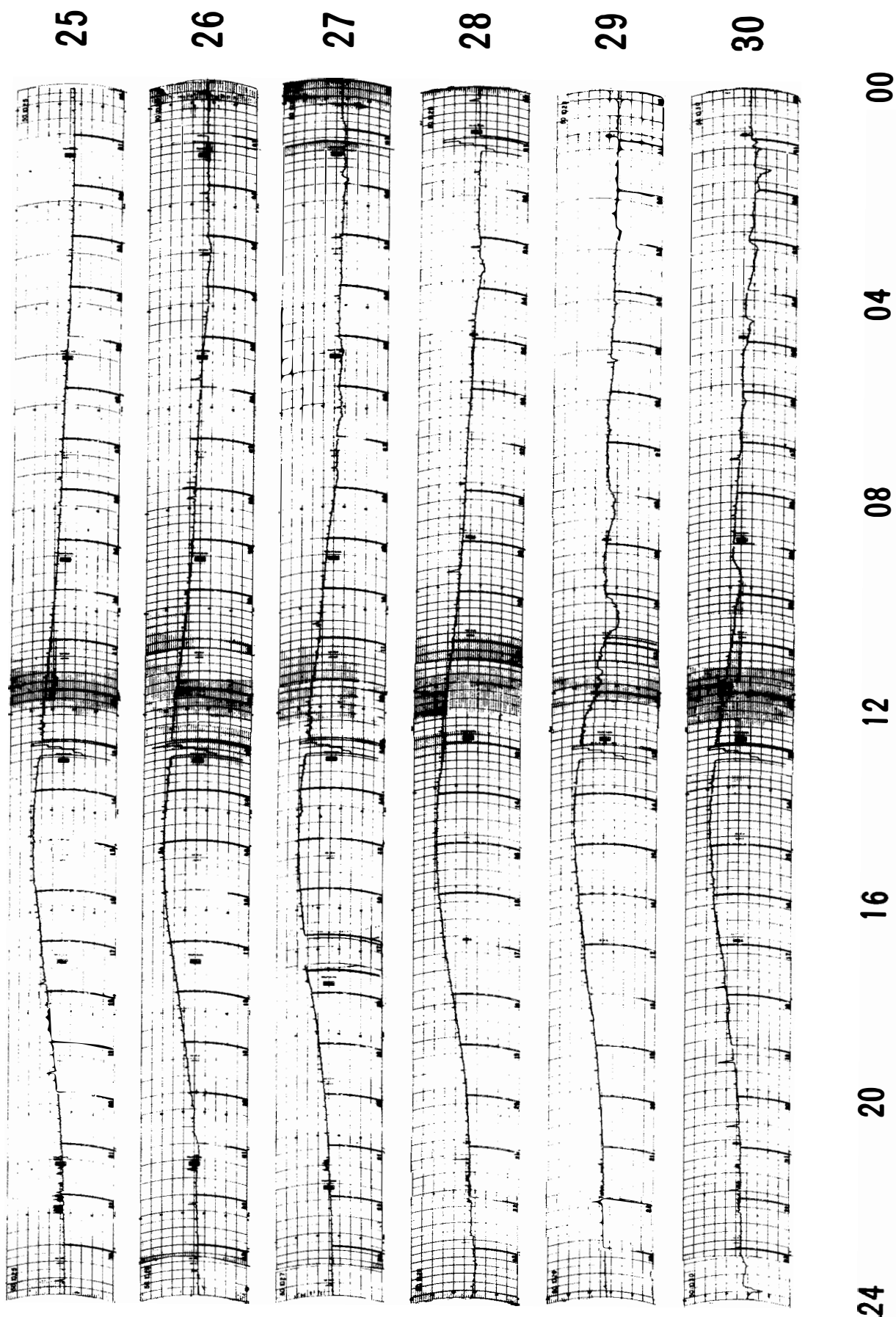
OCT 1975



OCT 1975



OCT 1975

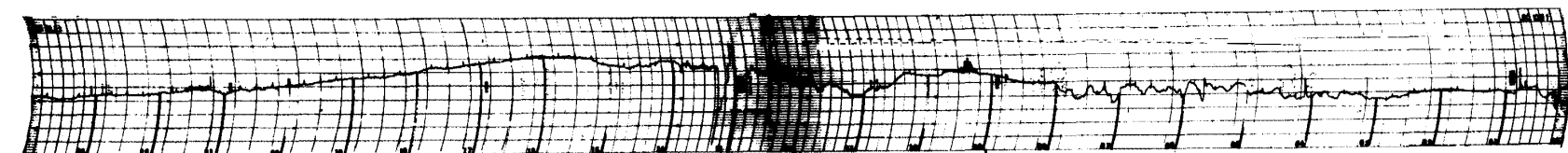


30 MHz COSMIC NOISE

45° EAST MERIDIAN TIME IN HOURS

OCT 1975

31



24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

Cosmic noise level obscured or equipment malfunction.

24. 1050 - 2140 failure of equipment.

27. 1655 - 1735 "

NOV 1975

1

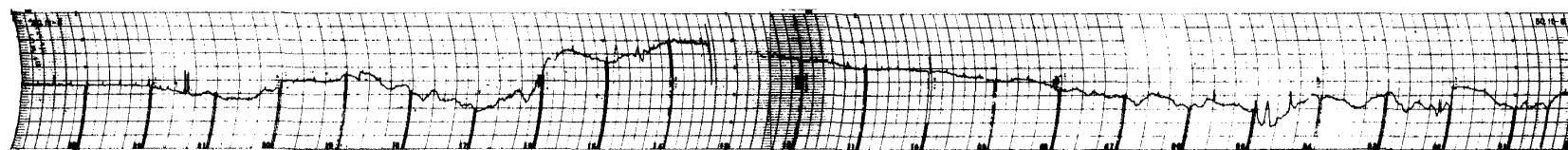
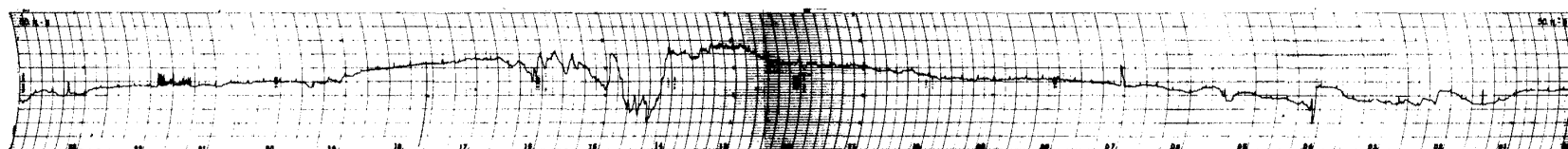
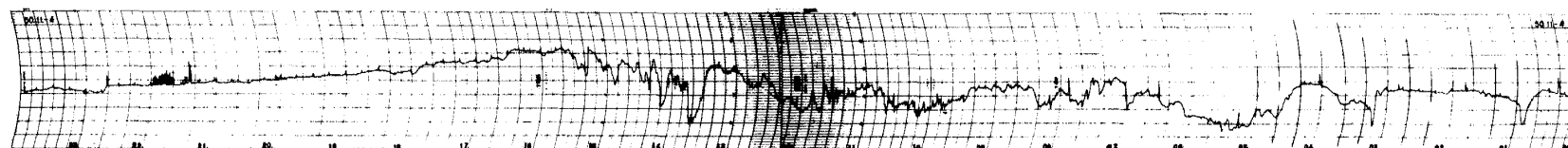
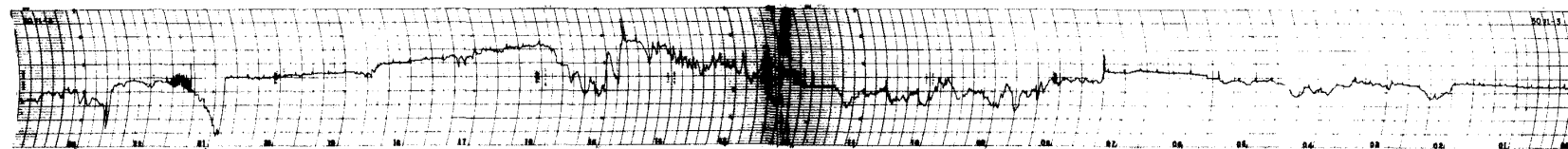
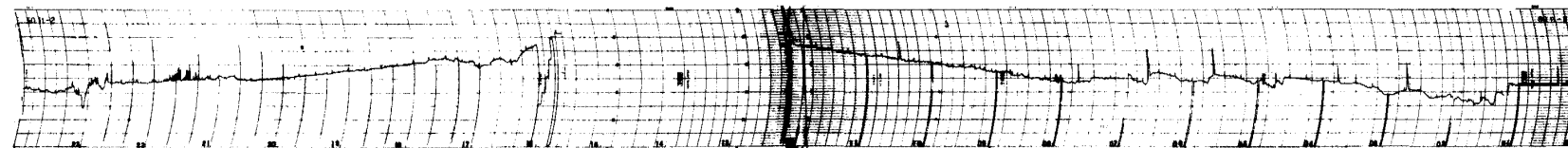
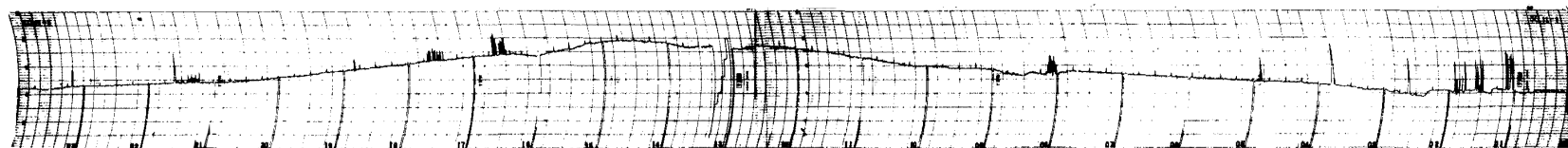
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24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

NOV 1975

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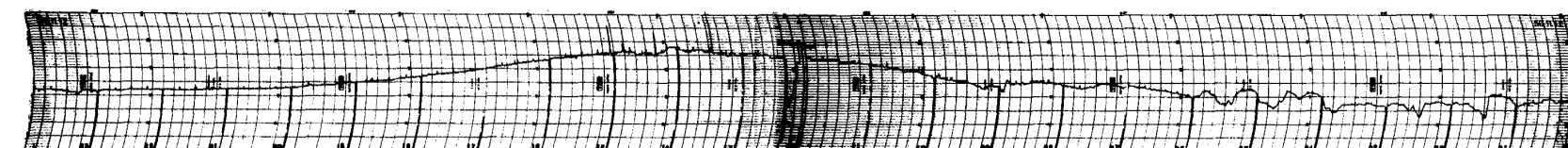
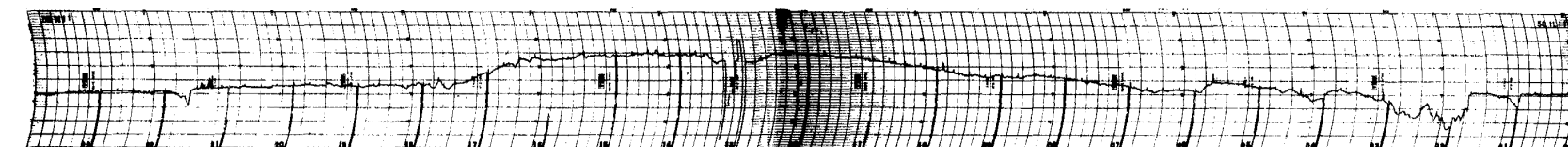
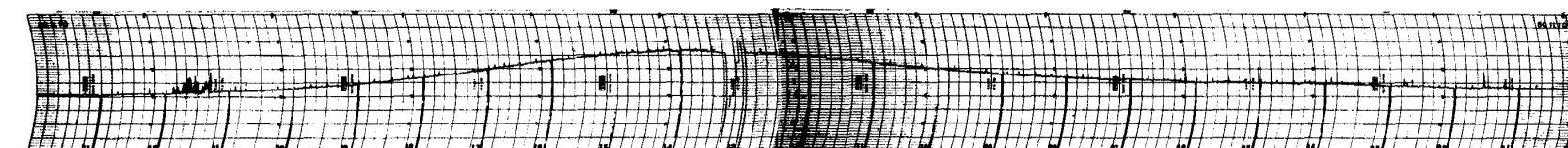
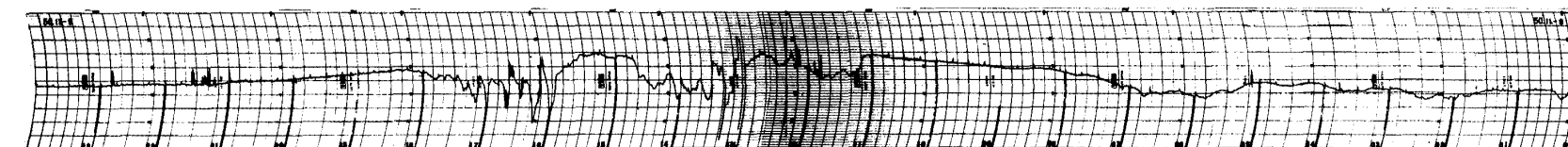
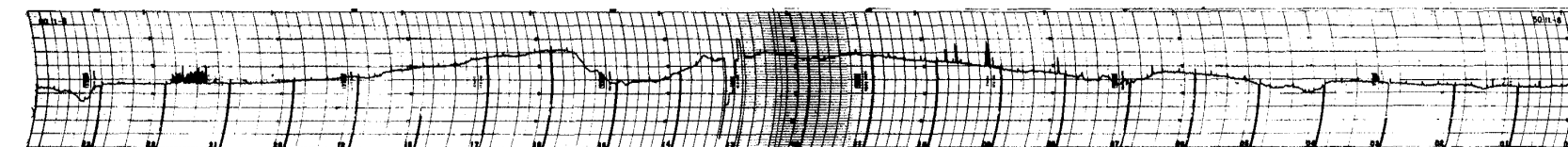
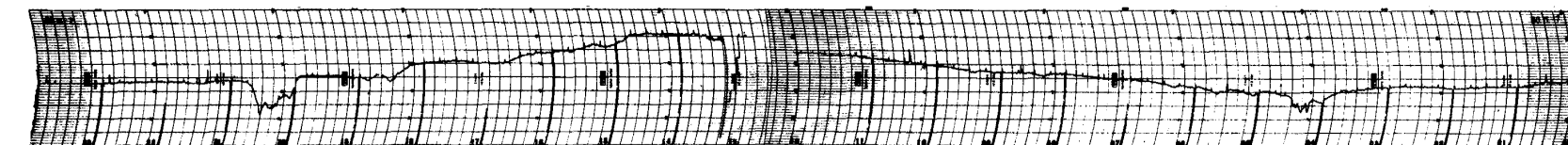
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45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

NOV 1975

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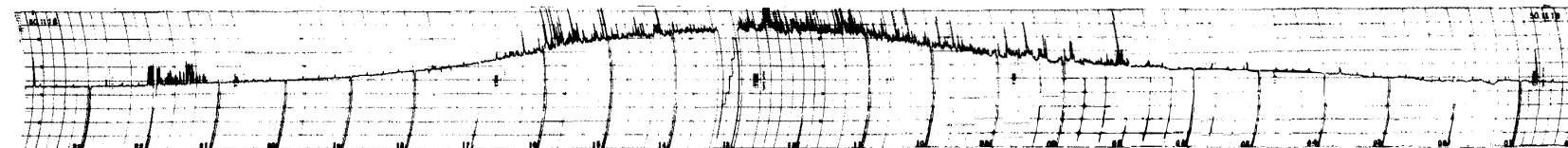
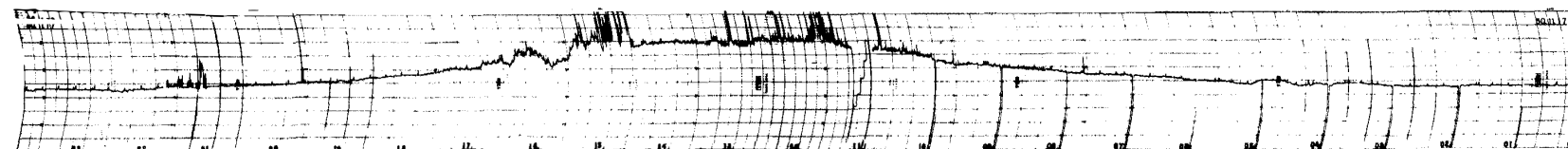
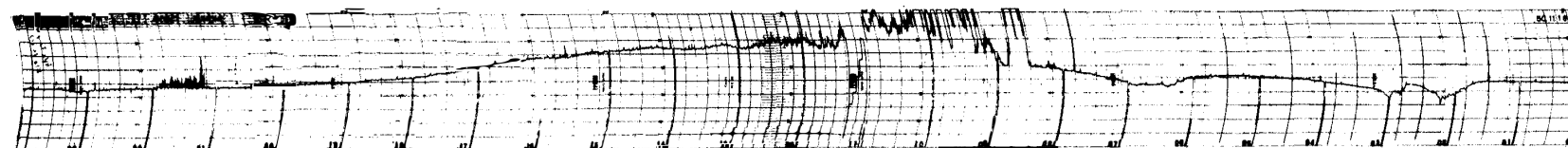
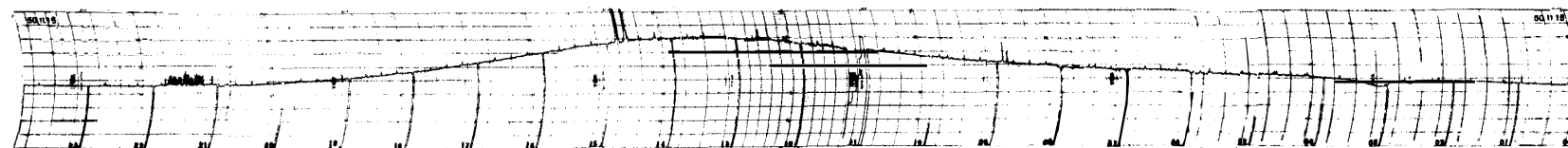
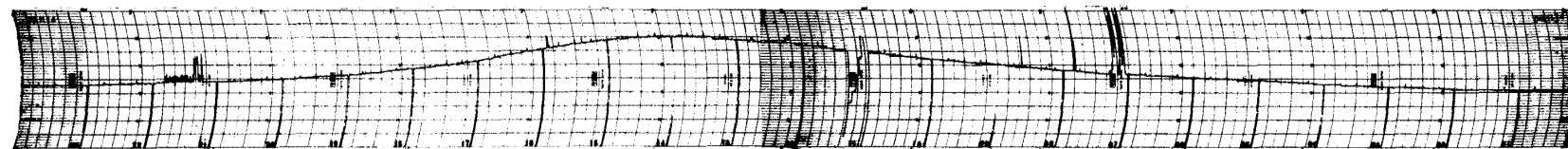
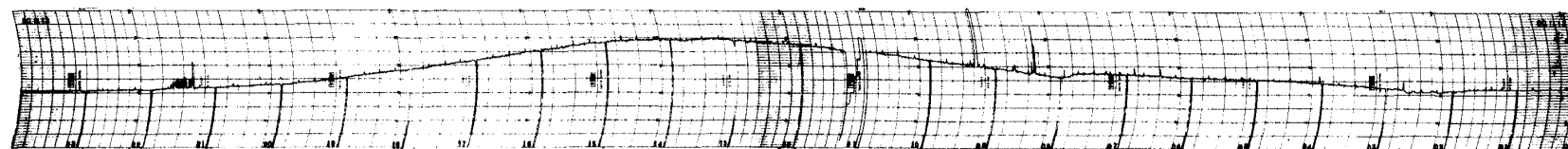
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24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

NOV 1975

19

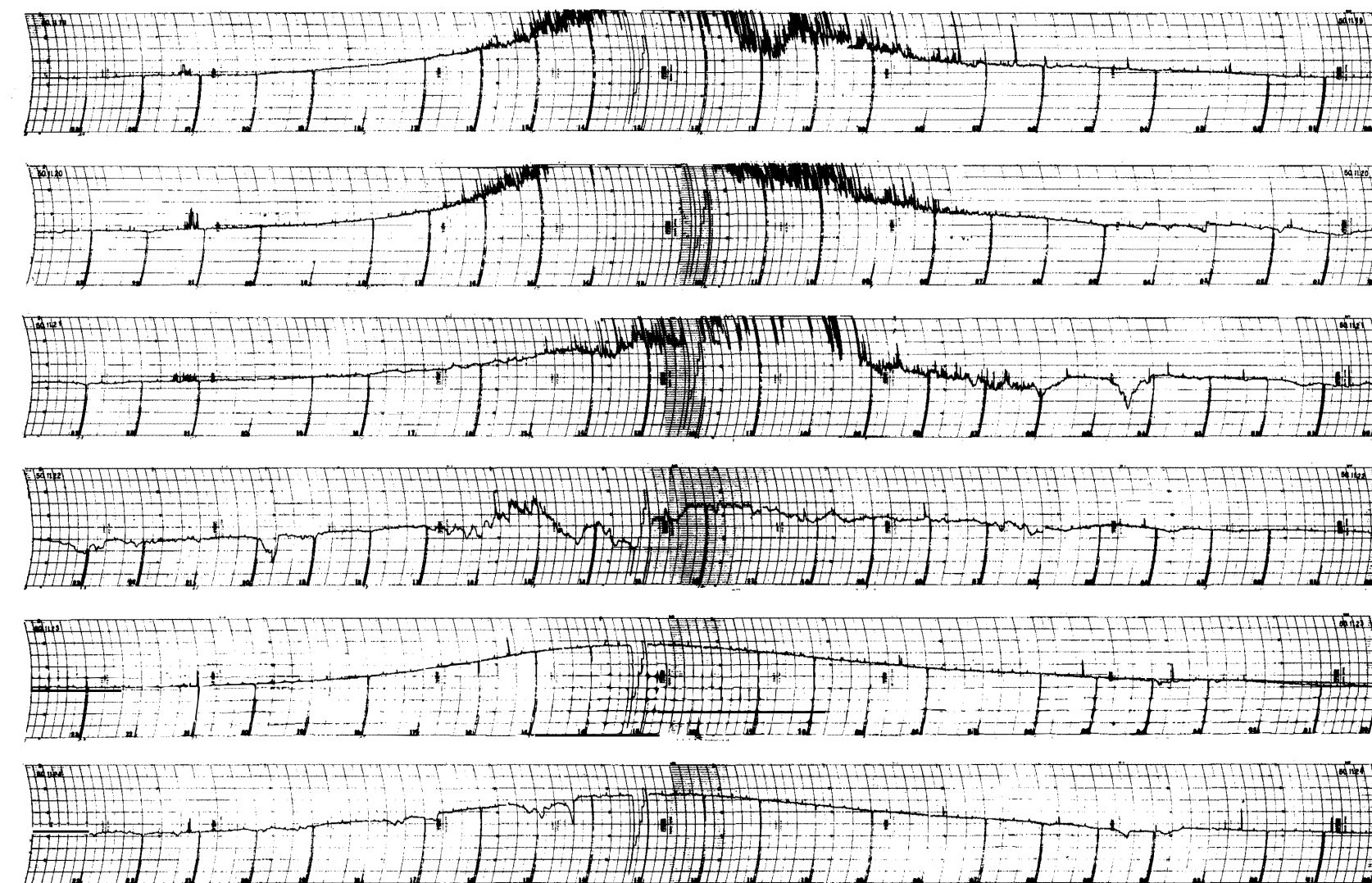
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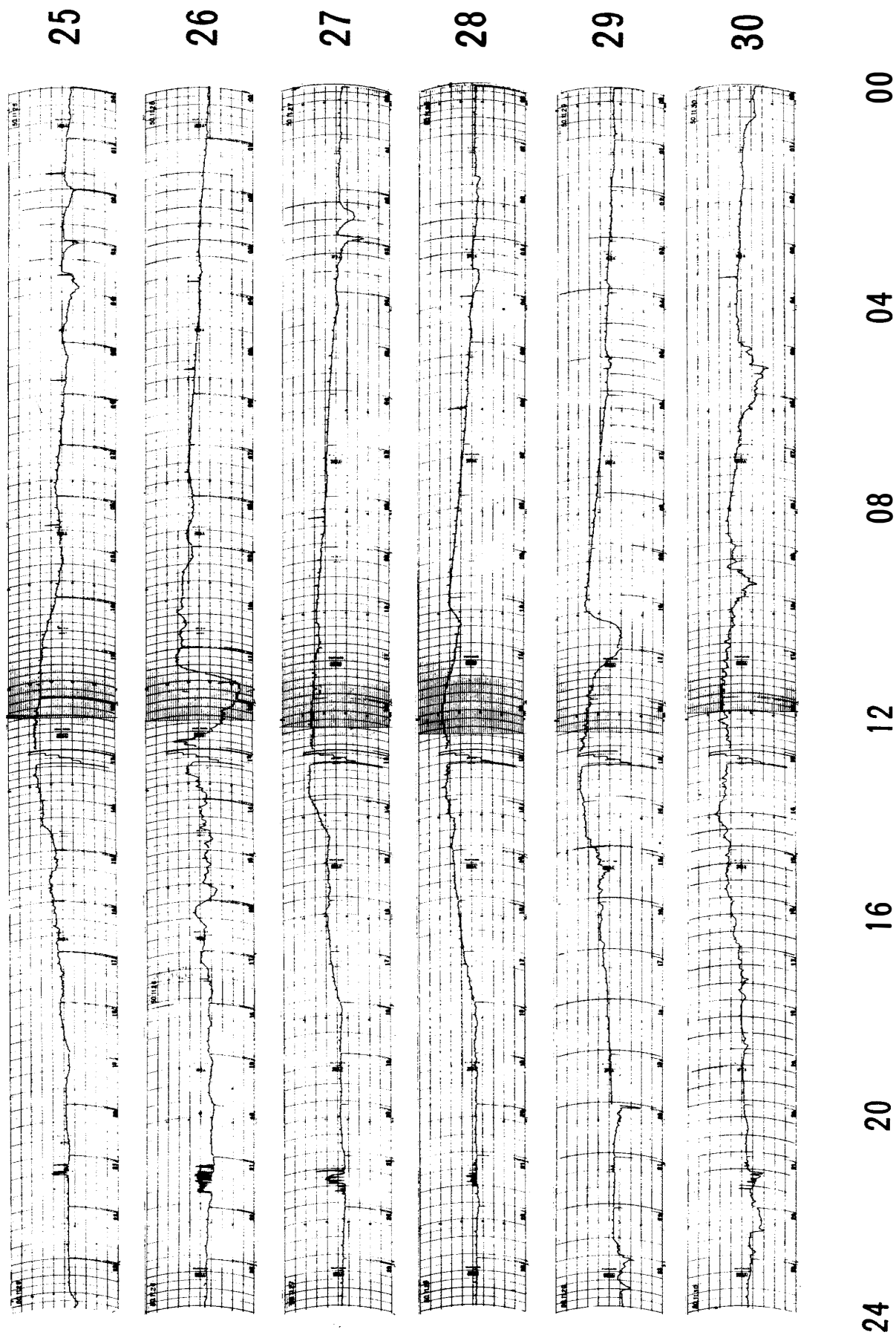


24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

NOV 1975



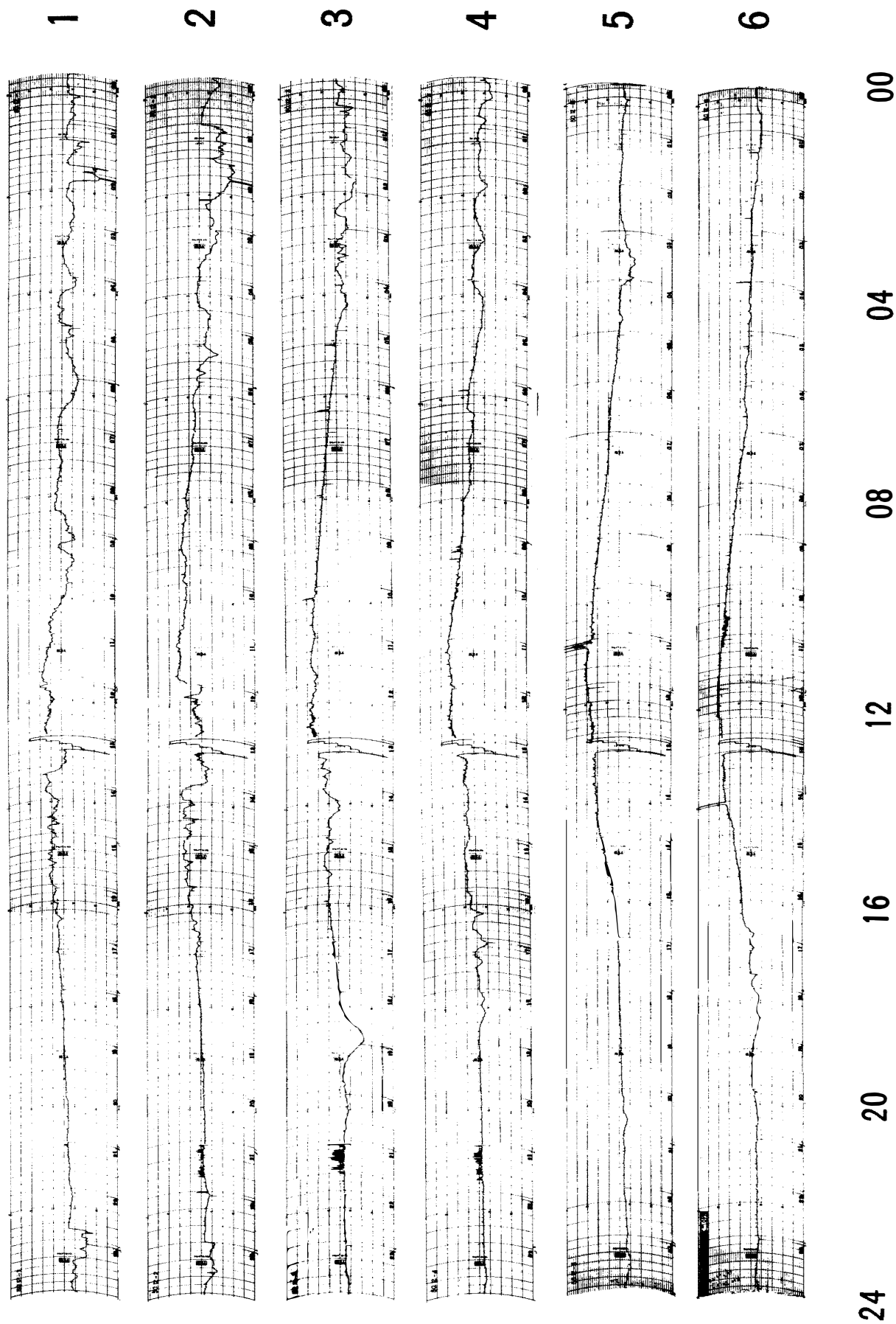
30 MHz COSMIC NOISE

45° EAST MERIDIAN TIME IN HOURS

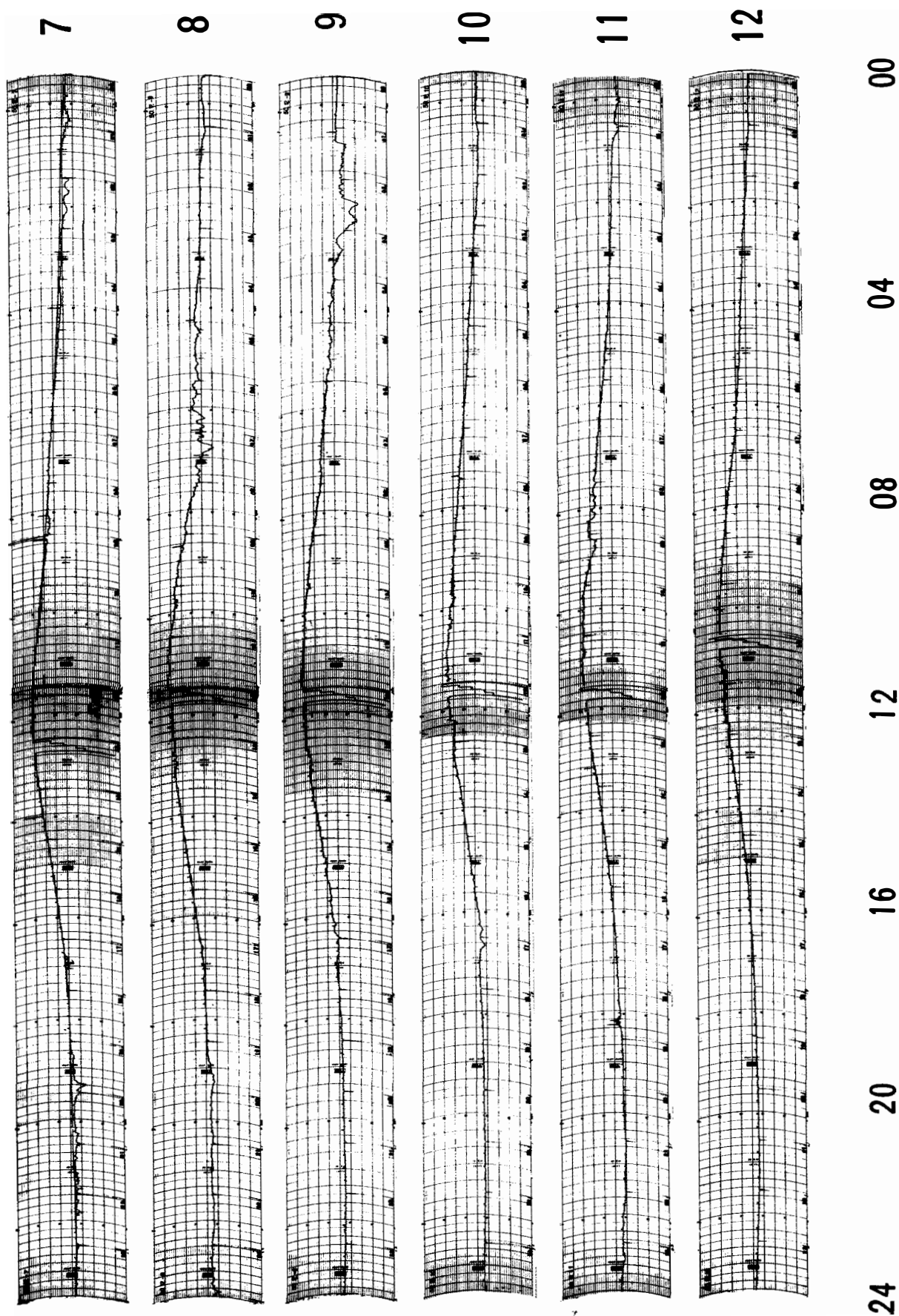
Cosmic noise level obscured or equipment malfunction.

2.	1210 – 1600	failure of equipment.
6.	1240 – 1330	“
7.	1200 – 1300	“
16.	0830 – 1100	interference.
18.	0900 – 1200	“
19.	0900 – 1500	“
20.	0800 – 1600	“
21.	0900 – 1300	“

DEC 1975



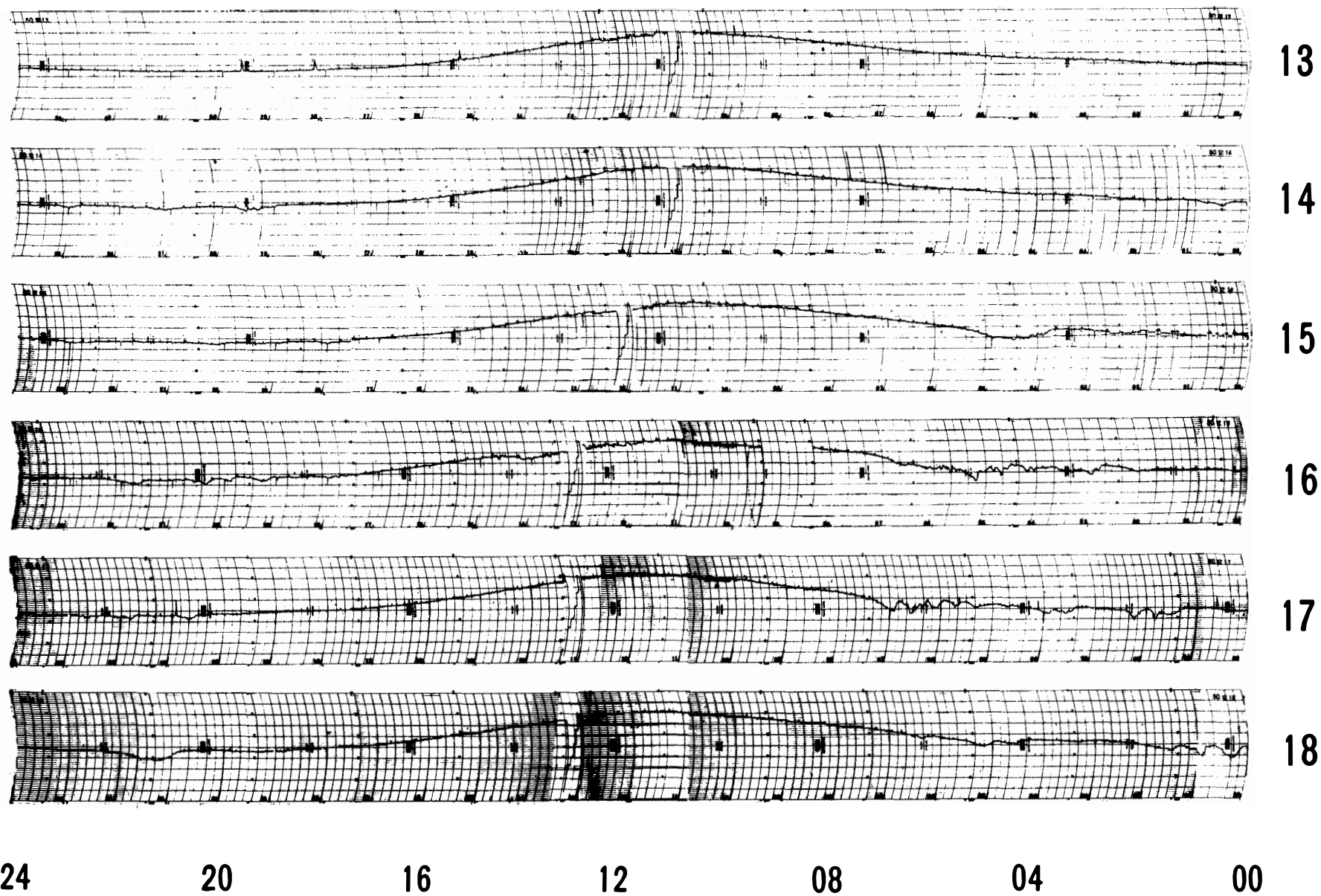
DEC 1975



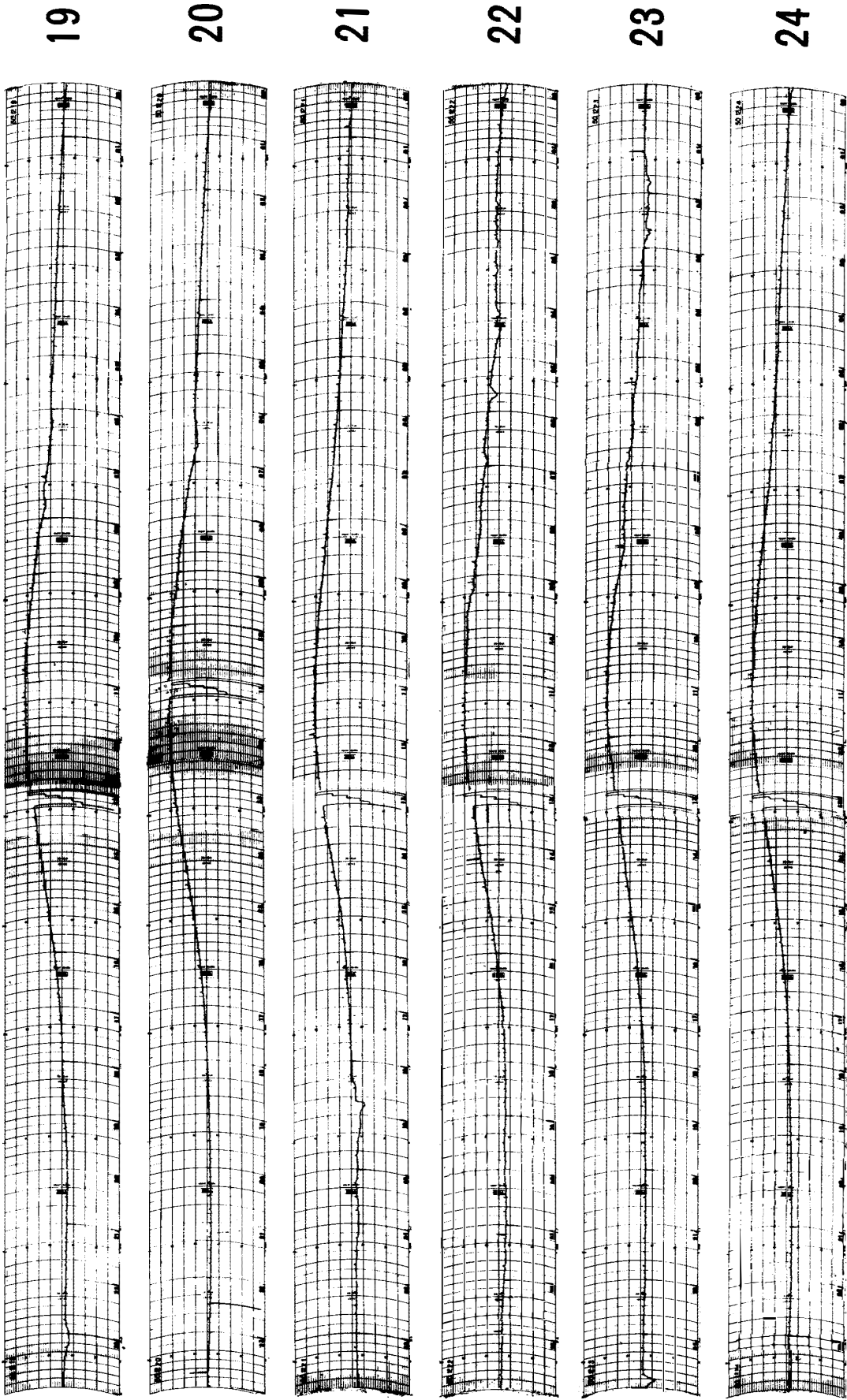
45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

DEC 1975



DEC 1975



24 20 16 12 08 04 00

45° EAST MERIDIAN TIME IN HOURS 30 MHz COSMIC NOISE

DEC 1975

25

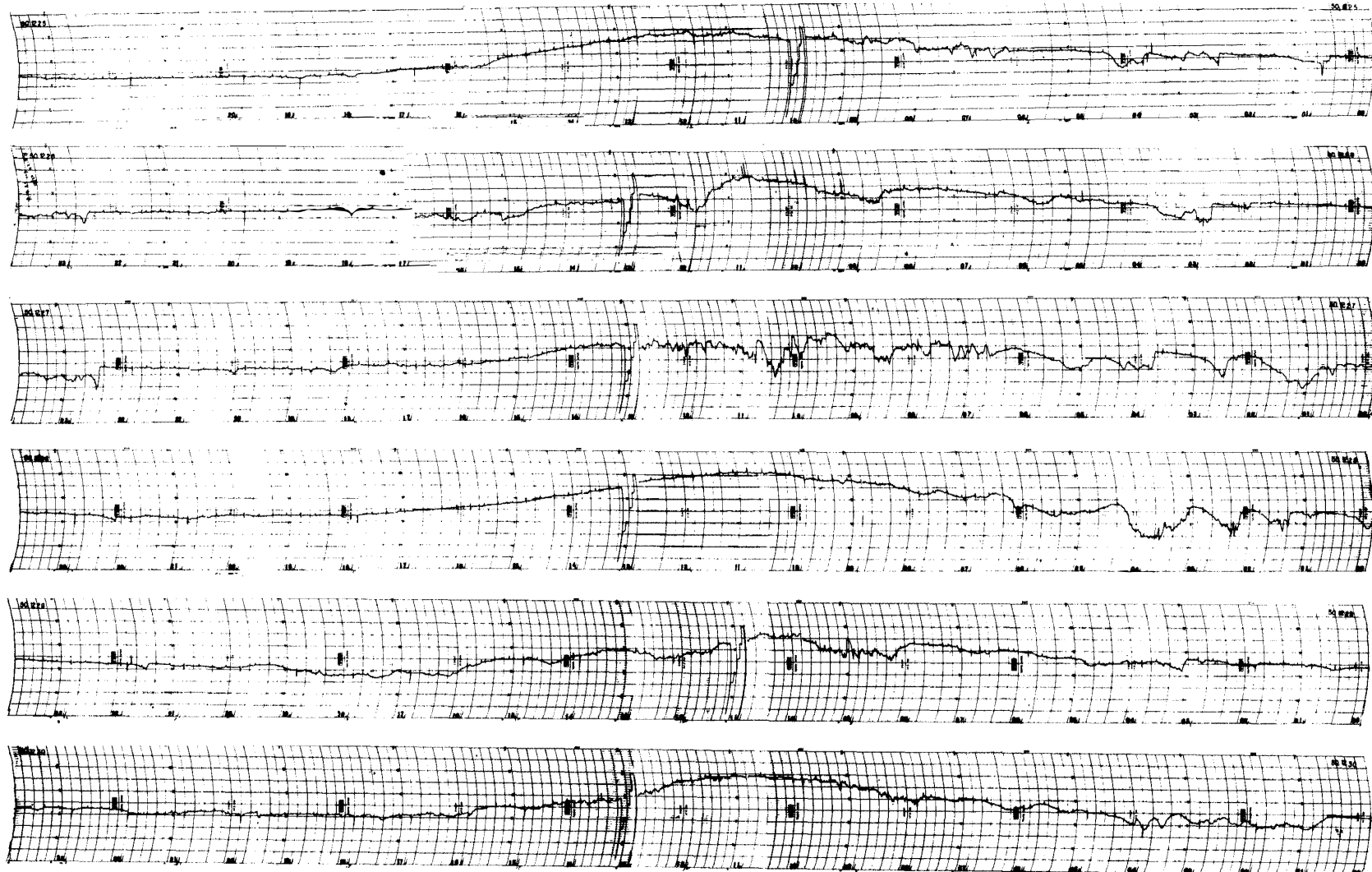
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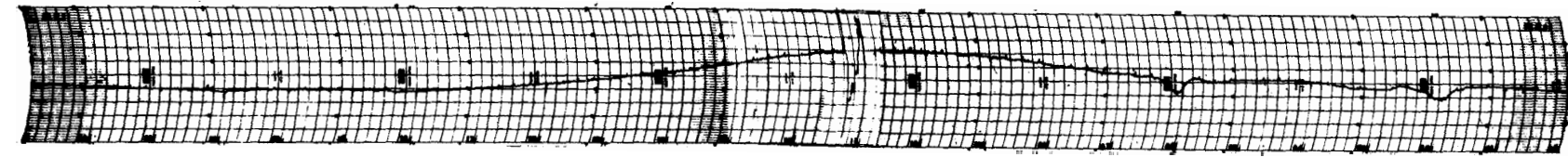
00

45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

DEC 1975

31



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12

08

04

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45° EAST MERIDIAN TIME IN HOURS

30 MHz COSMIC NOISE

Cosmic noise level obscured or equipment malfunction.

16. 0820 - 0920 failure of equipment.