



Department of Geology
University of California

SEISMOGRAPHIC STATION

Department of Geology
University of California

BERKELEY CALIFORNIA

ANNUAL REPORT

OF THE

METEOROLOGICAL

AND THE

SEISMOLOGICAL OBSERVATIONS

MADE AT THE

INTERNATIONAL LATITUDE OBSERVATORY

OF MIZUSAWA

FOR

THE YEAR 1925.

Department of Geology
University of California

LATITUDE 39° 8' N., LONGITUDE 141° 8' E.,

HEIGHT ABOVE MEAN SEA LEVEL 61 METRES.

PUBLISHED BY THE INTERNATIONAL LATITUDE OBSERVATORY

OF MIZUSAWA.

1926

The present report gives the results of the meteorological and seismological observations made at this observatory during the year 1925. No alteration has been made in the nature and methods of observation. The observations and the calculations were made by Messrs. K. Torihata, S. Satô and I. Kumagai under the superintendence of Dr. T. Ikeda.

The followings are to be noted with respect to the meteorological observations:

Hours of observations—*Japanese Central Standard Time* (i. e. mean time of the meridian 9h east from Greenwich) is adopted.

Air Pressure.—The barometric readings in millimetres are reduced to the freezing point of water, the corrections to sea level and to standard gravity are given at the bottom of the page for each month.

Air and Earth Temperatures.—The degrees are given in Centigrade.

* *Wind*.—The velocity is expressed in metres per second. The direction was observed relative to the sixteen points of the compass.

Cloud.—The amount is estimated by the scale 0-10, the forms are those of the *International classification*, and the direction of motion is indicated relative to the sixteen points of the compass.

Tension of Water Vapour.—is given in millimetres.

Relative Humidity.—is given in percentages.

Precipitation.—The amount is given in millimetres. In the total number of days only those, on which the amount is 0.1mm or more in the day, are reckoned. But all the days, on which snow, hail, or graupel fell, are included without reference to the amount.

Clear and Cloudy Days.—The amount of cloud is less than 2, 2 exclusive, for the former; and more than 8, 8 inclusive, for the latter.

Duration of Sunshine.—is recorded by a Jordan sunshine-recorder.

Amount of Evaporation.—is given in millimetres, for each day,—that is from 10h of the preceding day to 10h of the day in question, according to the instruction of the Central Meteorological Observatory in Tôkyô.

The heights of the meteorological instruments are as follows,

Barometer.—63.1m above sea level,

Air temperature thermometer.—1.7m above the ground,

Anemometer.—15.4m above the ground,

Wind vane.—16.6m above the ground.

* Note: The wind velocity is measured by the Robinson anemometer. Since January first of this year a new factor for this instrument has been used. The ratio of new factor to the old one is 0.7/1.0

In recording meteorological phenomena the following symbols are used:—

●	Rain	↔	Snow drift	C	Cirrus
*	Snow	←	Ice crystals	CS	Cirro-stratus
⚡	Thunder storm	⊙	Solar corona	CK	Cirro-cumulus
⚡	Thunder without lightning	⊕	Solar halo	KC	Cumulo-cirrus
⚡	Lightning without thunder	☾	Lunar corona	SC	Strato-cirrus
△	Graupel	☾	Lunar halo	SK	Strato-cumulus
▲	Hail	☾	Gales	N	Nimbus
≡	Mist, fog	∩	Rainbow	K	Cumulus
⊔	Hoar frost	☾	Aurora	KN	Cumulo-nimbus
∧	Dew	∞	Dust haze	S	Stratus
∨	Silver thaw	☒	Snow lying	~	Wave cloud
~	Glazed frost	⊔	Ice Column in the ground	☾	Zodiacal light

The descriptions of the meteorological instruments are found in the annual reports for the years 1902, 1904, 1905, 1910, and 1916.

The seismological instruments in use are two Omori's horizontal pendulums, of the same type as that described in p. 8 of No. 5, "Publication of the Earthquake Investigation Committee in Foreign Language," one serving to register the EW component, and the other the NS component, of seismological movements.

The time adopted in the Seismological observations is *Greenwich Local Time*.

	EW Component	NS Component
	Apparatus	Apparatus
Period of free oscillation	16 seconds	36 seconds
Multiplication of the pointer	100 times	20 times
Weight of heavy cylinder	45.0 kilograms	17.6 kilograms
Horizontal distance of the centre of the cylinder from the point of support	20 Centimetres	75 Centimetres
Vertical distance between the points of support and of suspension	104 Centimetres	104 Centimetres

September, 1926.

H. Kimura, *Rigakuhakushi*

Director of the International Latitude Observatory
in Mizusawa.

SEISMOLOGICAL OBSERVATIONS.

TABLE A.
(Earthquakes)

NO.	Date 1925	P				S				L				Duration of Total Earthquake (mean)	Maximum Range of Motion				Character of Motion	Intensity	Remarks
		E	W	N	S	E	W	N	S	E	W	N	S		E	W	N	S			
1	Jan. 3	8	20	11	20	12	20	54	20	52	—	—	—	—	14.7	0.07	0.06	Slow	Feeble	Felt	
2	5	15	02	46	02	46	03	08	03	06	—	—	—	—	8.5	0.12	0.10	Quick	Weak		
3	6	14	37	02	—	—	37	51	—	—	—	—	—	—	4.5	0.00	—	Slow	Feeble		
4	8	20	52	54	52	53	53	28	53	30	—	—	—	—	5.7	0.04	0.05	"	"		
5	9	4	36	13	?	?	36	49	36	49	—	—	—	—	4.9	0.02	0.02	"	"		
6	9	7	02	25	02	24	03	05	03	02	—	—	—	—	6.4	0.04	0.04	"	"	Felt	
7	9	9	09.9	—	—	—	10	20	—	—	—	—	—	—	4.9	0.01	—	"	"		
8	10	12	22	23	22	22	22	33	22	33	—	—	—	—	3.6	0.11	0.11	Quick	Weak		
9	11	23	44	44	?	?	45	13	45	11	—	—	—	—	3.9	0.01	0.02	Slow	Feeble		
10	14	20	?	?	?	?	39	03	39	04	—	—	—	—	?	0.01	0.01	"	"		
11	15	3	?	?	—	—	29	13	—	—	—	—	—	—	?	0.01	—	"	"		
12	16	22	10	44	10	45	11	16	11	16	—	—	—	—	4.4	0.05	0.05	"	"		
13	17	8	06	54	06	55	07	24	07	27	—	—	—	—	6.8	0.03	0.03	"	"		
14	18	12	08	51	08	52	10	58	10	56	—	—	—	—	24.8	1.73	0.60	"	"		
15	18	19	50	11	?	?	50	41	?	?	—	—	—	—	3.1	0.01	0.01	"	"		
16	18	20	22	41	?	?	23	06	23	11	—	—	—	—	5.5	0.01	0.01	"	"		
17	19	2	12	54	12	54	13	17	13	17	—	—	—	—	3.2	0.02	0.02	"	"		
18	22	10	18	21	18	21	18	51	18	51	—	—	—	—	7.6	0.09	0.10	"	"		
19	22	12	35	32	—	—	35	43	—	—	—	—	—	—	3.2	0.00	—	"	"		
20	24	8	27	34	?	?	28	14	23	14	—	—	—	—	7.08	0.06	0.06	"	"		
21	24	20	12	14	—	—	12	59	—	—	—	—	—	—	3.7	0.01	—	"	"		
22	24	21	38	59	—	—	39	40	—	—	—	—	—	—	4.1	0.01	—	"	"		
23	25	16	30	00	?	?	31	09	31	14	—	—	—	—	6.1	0.01	0.01	"	"		
24	27	6	54	22	54	22	54	34	54	34	—	—	—	—	2.6	0.05	0.04	"	"		
25	28	4	07	09	07	10	08	18	08	19	—	—	—	—	?	0.72	0.74	"	"		
26	28	4	?	?	?	?	28	15	28	18	—	—	—	—	?	0.03	0.06	"	"		
27	28	4	41	39	?	?	42	48	42	49	—	—	—	—	11.1	0.03	0.03	"	"		
28	28	11	45	33	—	—	46	33	—	—	—	—	—	—	6.1	0.01	—	"	"		
29	30	7	?	?	—	—	05	54	—	—	—	—	—	—	?	0.01	—	"	"		
30	30	7	?	?	—	—	26	20	—	—	—	—	—	—	?	0.00	—	"	"		
31	30	17	?	?	—	—	34	04	—	—	—	—	—	—	?	0.02	—	"	"		
32	31	5	12	26	?	?	12	53	12	52	—	—	—	—	3.4	0.01	0.01	"	"		
33	31	17	—	—	02	17	—	—	03	23	—	—	—	—	14.3	—	0.10	"	"		
34	31	20	—	—	?	?	—	—	25	11	—	—	—	—	?	—	0.04	"	"		
35	Feb. 1	0	20	39	?	?	21	43	21	42	—	—	—	—	8.2	0.02	0.02	"	"		
36	1	5	25	39	25	40	26	40	26	43	29	16	29	16	?	0.46	0.50	"	"		
37	1	6	?	?	—	—	25	20	—	—	—	—	—	—	?	0.01	—	"	"		
38	1	9	?	?	—	—	14	00	—	—	—	—	—	—	?	0.00	—	"	"		
39	1	9	?	?	?	?	34	11	34	12	—	—	—	—	?	0.01	?	"	"		
40	1	9	?	?	?	?	37	44	37	45	—	—	—	—	?	0.02	?	"	"		
41	1	12	?	?	—	—	27	51	—	—	—	—	—	—	?	0.01	—	"	"		
42	1	15	?	?	—	—	37	43	—	—	—	—	—	—	?	0.00	—	"	"		
43	1	15	?	?	—	—	56	51	—	—	—	—	—	—	?	0.01	—	"	"		
44	1	16	?	?	—	—	35	51	—	—	—	—	—	—	?	0.01	—	"	"		
45	1	17	16	18	?	?	17	28	17	27	—	—	—	—	7.4	0.03	0.02	"	"		
46	1	17	?	?	?	?	25	52	25	53	—	—	—	—	?	0.01	0.01	"	"		
47	1	20	?	?	?	?	47	45	47	47	—	—	—	—	?	0.01	0.01	"	"		
48	1	20	58	49	?	?	59	55	59	54	—	—	—	—	5.5	0.01	0.01	"	"		
49	2	10	?	?	—	—	22	44	—	—	—	—	—	—	?	0.01	—	"	"		
50	2	10	55	11	55	12	56	21	56	18	—	—	—	—	6.5	0.04	0.03	"	"		
51	2	11	20	14	20	15	21	22	21	22	—	—	—	—	11.7	0.04	0.05	"	"		
52	2	11	40	15	?	?	41	31	41	31	—	—	—	—	8.1	0.03	0.02	"	"		
53	2	11	57	58	?	?	59	11	59	11	—	—	—	—	?	0.02	0.01	"	"		
54	2	12	?	?	—	—	02	41	—	—	—	—	—	—	?	0.01	—	"	"		
55	2	12	?	?	—	—	06	21	—	—	—	—	—	—	?	0.01	—	"	"		

TABLE A.

(Earthquakes)

NO.	Date 1925	P				S				L				Duration of Total Earthquake (mean)	Maximum Range of Motion				Character of Motion	Intensity	Remarks
		E	W	N	S	E	W	N	S	E	W	N	S		E	W	N	S			
56	Feb. 2	h 12	m ?	s	m —	s —	m 18	s 42	m —	s —	m —	s —	m ?	mm 0.00	mm —	Slow	Feeble				
57	2	12	37	11	?		38	24	38	21			6.7	0.01	0.01	"	"				
58	2	12	51	56	?		53	07	53	07			6.4	0.02	0.01	"	"				
59	2	13	30	48	30	47	31	55	31	54	34	21	30.3	0.37	0.49	"	"				
60	2	13	?		—	—	48	36	—	—	—	—	?	0.00	—	"	"				
61	2	14	13	23	13	25	14	34	14	32	—	—	19.6	0.06	0.07	"	"				
62	2	14	40	54	41.0		42	03	42	01	—	—	16.8	0.05	0.04	"	"				
63	2	15	?		—	—	01	20	—	—	—	—	?	0.00	—	"	"				
64	2	17	21	35	—	—	22	40	—	—	—	—	6.1	0.01	—	"	"				
65	2	19	19	29	?		20	38	20	38	—	—	5.7	0.01	0.01	"	"				
66	2	19	26	28	26	28	27	37	27	38	—	—	16.2	0.15	0.15	"	"				
67	2	19	48	26	48	26	49	35	49	34	51	50	?	1.75	1.15	"	"				
68	2	19	—	—	?		—	—	59	58	—	—	?	—	0.09	"	"				
69	2	20	?		?		09	34	09	33	—	—	?	0.02	?	"	"				
70	2	20	?		—	—	23	26	—	—	—	—	?	0.00	—	"	"				
71	2	20	30	33	?		31	43	31	44	—	—	6.1	0.02	0.01	"	"				
72	2	20	?		?		39	23	39	23	—	—	?	0.04	0.02	"	"				
73	2	21	30	23	?		31	36	31	36	—	—	6.4	0.04	0.03	"	"				
74	2	22	14	26	14	27	15	31	15	32	—	—	13.6	0.10	0.07	"	"				
75	2	23	38	14	—	—	39	22	—	—	—	—	5.3	0.01	—	"	"				
76	3	1	54.5		?		55	14	?		56	03	56	01	6.9?	0.03	0.02	"	"		
77	3	2	29	29	?		30	38	30	38	—	—	11.2	0.05	0.06	"	"				
78	3	4	?		—	—	33	56	—	—	—	—	?	0.00	—	"	"				
79	3	6	?		—	—	37	46	—	—	—	—	?	0.01	—	"	"				
80	4	10	?		—	—	11	08	—	—	—	—	?	0.01	—	"	"				
81	5	6	09	15	—	—	09	37	—	—	—	—	3.3	0.01	—	"	"				
82	5	18	?		?		43	41	43	42	—	—	?	0.04	0.04	"	"				
83	5	19	59	50	—	—	60	29	—	—	—	—	3.5	0.00	—	"	"				
84	6	17	12	13	12	14	13	01	13	03	—	—	11.6	0.43	0.31	"	"				
85	7	12	?		—	—	13	44	—	—	—	—	?	0.01	—	"	"				
86	8	9	34	52	—	—	35	50	—	—	—	—	4.1	0.01	—	"	"				
87	9	3	06	42	?		07	44	07	41	—	—	6.3	0.04	0.05	"	"				
88	10	4	?		?		42	00	41	59	—	—	?	0.02	0.02	"	"				
89	13	7	13	53	13	52	14	40	14	36	—	—	4.3	0.03	0.02	"	"				
90	13	18	16	09	?		16	22	16	23	—	—	2.7	0.02	0.02	"	"				
91	14	0	43	02	43	01	43	35	43	35	—	—	4.6	0.06	0.05	"	"				
92	14	9	?		—	—	41	14	—	—	—	—	?	0.00	—	"	"				
93	15	11	36	17	36	19	36	48	36	47	—	—	7.5	0.10	0.11	"	"				
94	18	8	10	20	10	18	10	30	10	28	—	—	4.2	0.33	0.23	Quick	Weak	Felt			
95	18	12	?		—	—	08	25	—	—	—	—	?	0.01	—	Slow	Feeble				
96	19	15	06	08	—	—	06	37	—	—	—	—	5.4	0.01	—	"	"				
97	19	23	23	27	23	27	23	45	23	48	—	—	5.4	0.10	0.13	"	"				
98	20	1	04	35	04	37	06	12	06	11	—	—	54.4	?	0.60	"	"				
99	23	23	?		—	—	25	14	—	—	—	—	?	0.01	—	"	"				
100	24	0	?		?		02	39	02	40	—	—	?	0.02	0.02	"	"				
101	24	17	47	03	47	01	47	28	47	29	—	—	7.2	0.08	0.05	"	"				
102	25	22	?		—	—	09	50	—	—	—	—	?	0.01	—	"	"				
103	Mar. 1	3	59	15	?		60	36	60	40	—	—	8.8	0.04	0.02	"	"				
104	1	6	?		—	—	38	16	—	—	—	—	?	0.01	—	"	"				
105	2	9	02	06	—	—	03	27	—	—	—	—	4.8	0.01	—	"	"				
106	9	?			—	—	?		—	—	—	—	?	0.02	—	"	"				
107	9	19	50	57	?		52	23	52.5		—	—	?	0.03	0.01	"	"				
108	10	1	35	00	?		35	55	35	58	—	—	?	0.02	0.01	"	"				
109	10	7	?		—	—	46	13	—	—	—	—	?	0.01	—	"	"				
110	16	8	55	00	?		56	21	56	21	—	—	6.3	0.03	0.03	"	"				

TABLE A.
 (Earthquakes)

NO.	Date 1925		P				S				L				Duration of Total Earthquake (mean)	Maximum Range of Motion				Character of Motion	Intensity	Remarks
			E	W	N	S	E	W	N	S	E	W	N	S		E	W	N	S			
166	June	16	17	10	29	10	30	11	26	11	27	--	--	--	--	7.8	0.05	0.03	Slow	Feeble		
167		19	0	?		--	--	56	09	--	--	--	--	--	--	?	0.01	--	"	"		
168		19	17	20	39	--	--	21	49	--	--	--	--	--	--	3.8	0.01	--	"	"		
169		22	13	43	07	43	08	45	05	45	06	--	--	--	--	8.6	0.03	0.02	"	"		
170		23	4	44	50	44	49	45	29	45	27	--	--	--	--	11.1	0.68	0.81	Quick	Weak	Felt	
171		24	2	13	04	--	--	13	21	--	--	--	--	--	--	4.8	0.01	--	Slow	Feeble		
172		25	18	?		--	--	24	33	--	--	--	--	--	--	?	0.01	--	"	"		
173		25	21	25	23	25	22	26	12	26	13	--	--	--	--	7.1	0.12	0.12	"	"		
174	July	4	10	?		?		19	02	19	01	--	--	--	--	?	?	?	"	"		
175		6	16	48	10	48	15	49	14	49	13	--	--	--	--	8.4	0.05	0.07	"	"		
176		7	10	12	51	--	--	13	36	--	--	--	--	--	--	3.7	0.01	--	"	"		
177		15	9	00	31	?		03	04	03	06	--	--	--	--	7.8	0.04	0.02	"	"		
178		18	19	48	51	--	--	49	16	--	--	--	--	--	--	2.2	0.00	--	"	"		
179		22	?			--	--	?		--	--	--	--	--	--	?	0.01	--	"	"		
180		22	?			--	--	?		--	--	--	--	--	--	?	0.01	--	"	"		
181		22	?			--	--	?		--	--	--	--	--	--	?	0.01	--	"	"		
182		26	12	46	26	46	27	46	50	46	51	--	--	--	--	8.3	0.19	0.16	"	"		
183		28	20	49	02	49	04	49	14	49	18	--	--	--	--	4.8	0.19	0.21	Quick	Weak	Felt	
184		29	3	27	53	27	53	28	17	23	20	--	--	--	--	2.8	0.02	0.01	Slow	Feeble		
185		29	17	53	22	53	27	53	48	53	52	--	--	--	--	5.5	0.03	0.06	"	"		
186		30	2	17	42	--	--	18	04	--	--	--	--	--	--	2.2	0.01	--	"	"		
187	Aug.	7	2	53	33	--	--	54	09	--	--	--	--	--	--	4.3	0.01	--	"	"		
188		10	20	40	52	40	55	41	14	41	17	--	--	--	--	5.1	0.04	0.04	"	"		
189		19	12	12	44	12	44	17	01	17	00	21	12	21	09	40.5	0.06	0.63	"	"		
190		19	12	?		--	--	54	26	--	--	--	--	--	--	?	0.01	--	"	"		
191		19	18	?		--	--	21	10	--	--	--	--	--	--	?	0.01	--	"	"		
192		20	11	36	33	--	--	36	45	--	--	--	--	--	--	3.0	0.02	--	"	"		
193		22	7	23	36	--	--	24	21	--	--	--	--	--	--	3.8	0.00	--	"	"		
194		24	18	23	25	?		23	37	23	38	--	--	--	--	2.9	0.02	?	"	"		
195		31	19	47	20	47	22	47	44	47	47	--	--	--	--	15.6	0.22	0.29	"	"		
196	Sept.	1	19	30	05	--	--	30	22	--	--	--	--	--	--	2.7	0.01	--	"	"		
197		2	8	56	15	--	--	56	21	--	--	--	--	--	--	1.3	0.01	--	"	"		
198		5	16	35	38	35	36	40	12	40	10	?		?		?	--	--	"	"		
199		8	0	12	05	--	--	12	27	--	--	--	--	--	--	2.3	0.00	--	"	"		
200		10	22	?		58	01	?		58	22	--	--	--	--	5.4	0.21	0.31	"	"		
201		12	10	56.2		--	--	56	44	--	--	--	--	--	--	?	0.03	--	"	"		
202		14	8	44	34	44	34	44	51	44	50	--	--	--	--	3.7	0.01	0.01	"	"		
203		21	1	56	30	--	--	57	09	--	--	--	--	--	--	3.7	0.02	--	"	"		
204		24	23	57	27	57.5		57	41	57	42	--	--	--	--	3.0	0.04	0.03	Quick	Weak	Felt	
205		25	13	54.1		--	--	54	42	--	--	--	--	--	--	6.0	0.01	--	Slow	Feeble		
206		29	1	03	46	?		04	25	04.5		--	--	--	--	3.8	0.01	0.01	"	"		
207	Oct.	4	7	--	--	33	23	--	--	34	27	--	--	--	--	6.7	--	0.04	"	"		
208		5	11	10	23	10	28	11	12	11	12	--	--	--	--	8.7	0.20	0.20	"	"		
209		8	18	24	42	--	--	25	03	--	--	--	--	--	--	2.3	0.01	--	"	"		
210		9	18	39	57	--	--	40	16	--	--	--	--	--	--	3.8	0.01	--	"	"		
211		11	13	?		--	--	12	00	--	--	--	--	--	--	?	0.01	--	"	"		
212		13	3	10	35	--	--	10	45	--	--	--	--	--	--	3.1	0.01	--	"	"		
213		18	8	32	59	33	00	33	07	33	07	--	--	--	--	8.8	0.02	0.01	"	"		
214		20	9	--	--	44	27	--	--	?		--	--	46	32	9.3	--	0.14	"	"		
215		22	12	57	56	--	--	?		--	--	60	43	--	--	7.9	0.02	--	"	"		
216		22	?	--	--	--	--	?		--	--	--	--	--	--	?	0.01	--	"	"		
217		25	0	28	20	--	--	28	41	--	--	--	--	--	--	4.3	0.01	--	"	"		
218	Nov.	1	0	35	11	--	--	35	25	--	--	--	--	--	--	3.5	0.01	--	"	"		
219		3	22	55	50	?		56	06	56	06	--	--	--	--	3.3	0.01	0.01	"	"		
220		5	18	43	42	--	--	44	13	--	--	--	--	--	--	3.2	0.01	--	"	"		

TABLE A.
(Earthquakes)

NO.	Date 1925	P				S				L				Duration of Total Earthquake (mean)	Maximum Range of Motion				Character of Motion	Intensity	Remarks
		E	W	N	S	E	W	N	S	E	W	N	S		E	W	N	S			
221	Nov. 6	h	m	s	m	s	m	s	m	s	m	s	m	mm	mm	Slow	Feeble				
222	6	15	14	11	14	10	15	28	15	30	—	—	10.7	0.16	0.15	"	"				
223	10	16	?		—	—	08	16	—	—	—	—	?	0.01	—	"	"				
224	10	13	53	30	53	29	64	25	64	20	70	23	?	0.03	0.55	"	"				
225	11	14	44	56	44	58	45	14	45	15	—	—	9.9	0.56	0.39	Quick	Weak	Felt			
		16	36	27	?		36	38	36	39	—	—	3.2	0.02	0.01	Slow	Feeble				
226	11	23	27	22	27	24	27	51	27	52	—	—	4.1	0.03	0.02	"	"				
227	12	12	24	17	—	—	24	44	—	—	—	—	?	0.01	—	"	"				
228	13	12	20	57	20	58	25	07	25	06	29	16	11.4	0.10	1.30	"	"				
229	24	23	10	17	—	—	10	49	—	—	—	—	?	0.03	—	"	"				
230	Dec. 1	20	47	18	47	21	48	03	48	03	—	—	6.8	0.03	0.01	"	"				
231	2	2	16	11	?		17	04	17	08	—	—	6.0?	0.03	0.04	"	"				
232	2	9	13	42	?		14	32	14	31	—	—	5.4?	0.04	0.02	"	"				
233	2	23	55	41	—	—	56	06	—	—	—	—	2.6	0.02	—	"	"				
234	3	16	09	41	—	—	09	55	—	—	—	—	1.6	0.01	—	"	"				
235	4	15	32	02	32	04	32	32	32	31	—	—	6.9	0.26	0.35	"	"				
236	8	2	10	31	—	—	11	20	—	—	—	—	?	0.01	—	"	"				
237	8	18	49	25	—	—	50	13	—	—	—	—	?	0.01	—	"	"				
238	8	20	19	23	—	—	20	14	—	—	—	—	?	0.01	—	"	"				
239	11	7	20	21	?		21	01	21	02	—	—	5.6	0.02	0.01	"	"				
240	12	3	29	20	29	21	29	36	29	36	—	—	4.7	0.29	0.31	"	"				
241	13	13	34	55	—	—	35	10	—	—	—	—	3.7	0.01	—	"	"				
242	19	5	07	39	—	—	08	30	—	—	—	—	4.6	0.01	—	"	"				
243	29	2	?		?		09	07	09	09	12	36	?	?	0.07	"	"				

