

SEISMOLOGICAL BULLETIN

April 1, 1954 — September 30, 1954

KAMIGAMO GEOPHYSICAL OBSERVATORY

KYOTO UNIVERSITY

CONSTANTS

Constants of the station

Latitude and longitude :

35° 04' N

135° 46' E

Time: All determinations are reduced to Universal Time.

Altitude: 190 meters above mean sea level.

Ground rock: Palaeozoic system.

Constants of the Seismographs

Apparatus	Component	Period	Pendulum Damping ratio	Magnification	Maximum Magnification
W	H	12 sec.	5	200	
W	V	5	5	180	
OT	N, E	8		50	
G	N, E	8			2,000
G	Z	8			2,000

(Abbreviations; W, Wiechert Seismograph; OT, Omori Seismograph;
G, Seismograph of Galitzin-type with magnification of about 2,000)

Remarks :

It is preferred that communications on this bulletin may be sent to

Prof. Eiichi Nishimura

Geophysical Institute, Faculty of Science,

Kyoto University, Kyoto, Japan.

April

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			P ~ S		Remarks
			A _N μ	A _E μ	A _Z μ	A _N (T _N) μ (s.)	A _E (T _E) μ (s.)	A _Z (T _Z) μ (s.)	m.	s.	
1	1	18 22 41.-	—	—	—	3.3 (12.9)	7.0 (19.5)	—	4	—?	Kurile Island (46½°N, 153°E)
2	2	04 48 21.0	+0.8	-2.3	-3.3	44.3 (-)	41.5 (-)	30.0 (-)	—	04.0	
3	3	00 50 30.3	(+)	—	+1.3	3.8 (-)	8.5 (-)	3.3 (-)	—	01.6	
4	4	02 11 34.5	—	—	—	8.3 (-)	9.5 (-)	3.8 (-)	—	01.5	
5	4	23 16 09.3	-1.1	-1.6	+0.7	6.5 (-)	7.5 (-)	—	1	34.-	Off S coast of Ho- kaido (41.9°N, 142.8°E)
6	8	02 40 27.0	—	—	—	—	—	—	—	01.0	
7	9	07 19 20.-	—	—	—	—	—	—	4	—?	
8	10	14 51 38.-	—	—	—	—	—	—	—	33.-	
9	13	13 32 37.-	—	—	—	2.3 (-)	3.0 (-)	1.2 (-)	—	20.-	
10	13	15 26 21.5	—	—	—	110.5 (10.5)	124.5 (12.7)	100.0 (2.9)	—	31.4	Off SE coast of Shikoku (32.9°N, 134.4°E)
11	14	20 17 40.7	-1.5	-1.5	+0.9	14.5 (-)	6.0 (21.7)	—	5	37.-	
12	20	04 13 35.5	+19.5	-36.5	-40.0	536 (-)	200 (-)	—	—	03.0	Kyoto Pref. (35.2°N, 135.5°E)
13	20	04 48 12.7	+0.3	+0.6	+0.3	45.0 (-)	36.3 (-)	20.0 (-)	—	03.4	
14	21	08 48 01.6	-5.0	+1.2	-7.5	31.8 (-)	78.3 (-)	14.4 (-)	—	11.1	Nara Pref. (34.3°N, 135.9°E)
15	22	07 07 42.-	—	—	—	26 (-)	74 (-)	41.1 (-)	—	01.4	
16	22	14 57 16.7	-1.4	+1.1	-1.0	3.1 (4.2)	4.3 (5.3)	2.7 (1.5)	2	34.-	
17	23	10 56 08.4	-2.0	-1.3	+1.3	20.2 (4.7)	60.0 (4.0)	15.3 (3.8)	—	12.8	Fukui Pref. (36.0°N, 136.4°E)
18	23	17 05 55.4	+2.6	—	+1.4	10.3 (-)	12.8 (-)	9.0 (-)	—	13.4	
19	24	17 35 05.-	—	—	(-)	18.5 (7.8)	14.5 (7.8)	3.3 (-)	1	46.-	SE off Boso Pen., Central Honshu (34°N, 141°E)

20	26	03 41 11.3	—	—	—	0.8 (-)	2.0 (45)	4.2 (-)	14.0		
21	26	20 29 52.3	-2.1	-1.4	+1.3	5.5 (-)	4.5 (25.8)	—	4	17.-	* Off SE coast of Kamchatka (52°N, 159°E)
22	27	04 11 33.3	-0.5	-0.8	(-)	69.0 (-)	93.0 (-)	22.0 (-)	4	01.3	
23	28	06 44 53.4	+0.4	+1.2	-3.6	2.5 (-)	9.3 (-)	8.1 (-)	—	02.4	
24	30	13 15 10-?	—	—	—	22.0 (14.1)	11.5 (16.6)	2.2 (138)	10	27.-	* Central Greece (39½°N, 22°E) M=7 (Pas.)

Remarks : According to the Central
Meteorological Observatory
of Japan

* : Data from U. S. C. G. S.

May

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			P-S		Remarks
			AN μ	AE μ	Az μ	AN(TN) μ(s)	AE(TE) μ(s)	Az(Tz) μ(s)	m.	S.	
1	3	15 34 58.	-1.6	-1.7	+1.3	13.3 (19.0)	41.5 (14.8)	2.3 (12.6)	4	26.-	* Kamchatka (51½°N, 159½°E) M=6¾~7 (Pas.)
2	4	06 26 03.-	—	—	—	8.3 (-)	9.1 (-)	6.4 (-)	1	06.-	Off E coast of Iba- raki Pref. (36.4°N, 141.2°E)
3	6	09 06 52.7	+0.4	+0.5	-0.2	5.8 (7.8)	8.0 (5.0)	—	3	36.-	Kurile Is. (50°N, 155½°E)
4	8	08 27 17.6	(-)	+2.1	+1.5	77.5 (4.5)	18.3 (4.9)	14.2 (3.0)	—	31.4	Shimane Pref. (35.05°N, 132.8°E)
5	10	08 32 01.1	+2.8	+0.8	+4.1	9.3 (-)	15.3 (-)	7.2 (-)	—	13.0	
6	14	18 40 03.2	+2.1	+3.1	-4.7	17.8 (-)	11.5 (-)	14.1 (-)	—	03.7	
7	14	22 40 06.8	+22.5	>+45	>-67.0	195.0 (-)	123.0 (-)	151.0 (-)	—	35.6	Hida Mt. (36°N, 137.4°E) Depth=240 ^{km} M=7 (Pas.)
8	16	12 57 11.4	—	-0.8	-0.4	171.0 (6.3)	42.0 (4.9)	35.3 (3.1)	—	31.1	Shimane (35.2°N, 132.8°E)
9	19	09 31 24.4	—	—	—	3.6 (-)	10.3 (-)	2.8 (-)	—	10.2	
10	23	04 13 54.-	-1.0	-0.7	+0.9	1.8 (-)	2.3 (-)	—	2	49.-	Kurile Is. (45°N, 150°E)

11	27	06 51 32.-	—	—	—	—	—	—	—	—	20.-	Off E coast of Miyazaki Pref. (31.7°N., 131.7°E)
12	27	09 12 37.9	+1.1	—	-1.0	8.8 (-)	12.5 (-)	3.3 (-)	—	—	18.7	
13	28	23 51 24.8	+0.2	-0.3	+1.0	2.8 (-)	5.3 (-)	5.0 (-)	—	—	02.3	
14	30	06 30 44.-	—	—	—	—	—	—	—	—	14.4	

July

June

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			p ~ S		Remarks	
			A _N μ	A _E μ	A _Z μ	A _N (T _N) μ(s)	A _E (T _E) μ(s)	A _Z (T _Z) μ(s)	m.	s.		
1	1	02 01 56.2	-0.2	-1.0	-1.1	9.0 (-)	4.0 (-)	5.0 (-)	—	—	03.3	
2	5	13 15 19.5	—	—	—	20.0 (6.9)	15.3 (-)	13.6 (2.6)	—	—	55.1	Ibaraki Pref. (36.0°N, 139.9°E)
3	6	16 58 07.6	-3.3	-1.1	+1.0	32.3 (23.0)	6.5 (20.8)	6.4 (24.7)	5	—	44.-	* New Guinea (3°S, 136½°E) M=7 (Pas.)
4	6	22 00 01.6	-0.9	+1.1	-1.3	—	—	—	—	—	52.2	Far S off Honshu (32.3°N, 140.2°E)
5	7	10 22 44.8	+4.2	-1.9	+5.0	—	—	—	1	—	30.-	
6	9	13 21 28.2	—	-1.0	-2.0	8.5 (-)	27.0 (-)	6.1 (-)	—	—	15.4	
7	10	22 39 40.-	-1.3	+0.9	-1.7	13.0 (3.3)	24.8 (3.3)	4.5 (2.5)	1	—	19.-	29¼°N, 139¾°E. deep.
8	14	18 17 42.-	—	—	—	3.5 (-)	3.0 (-)	—	—	—	20.-	
9	17	23 17 42.-	—	—	—	—	—	—	—	—	08.-	
10	19	01 58 19.-	—	—	—	5.5 (-)	13.3 (-)	—	2	—	09.-	Off S coast of Kyu-shu (29¼°N, 131¼°E)
11	19	17 43 16.0	+1.0	-0.8	+2.0	—	—	—	—	—	05.4	
12	22	14 36 29.0	-0.7	-1.5	-0.5	—	—	—	—	—	00.3	

13	23	07 55	29.3	+0.4	—	+1.0	13.9 (-)	26.0 (-)	4.5 (-)	14.3
14	25	02 25	51.8	—	—	-0.6	3.0 (-)	4.5 (-)	6.0 (-)	16.4

July

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			P ~ S		Remarks
			A _N μ	A _E μ	A _Z μ	A _N (T _N) μ (s)	A _E (T _E) μ (s)	A _Z (T _Z) μ (s)	m.	s.	
1	2	02 50 30.3	-0.7	(-)	+1.4	13.0 (11.2)	25.8 (6.6)	2.9 (13.0)	4	31.-	Philippine (13°N, 123°E) M=6¾ (Pas.)
2	3	13 09 35.7	-0.3	+0.9	-0.9	21.5 (-)	90.0 (-)	11.8 (-)	0	15.8	
3	3	20 09 03.-	—	—	—	—	—	—		12.5	
4	3	22 40 16.4	+2.8	+1.5	+4.8	6.0 (26.1)	3.0 (29.1)	2.2 (23.5)	7	07.-	* Java (6½°S, 106°E) M=7 (Pas.)
5	5	16 54 06.9	—	-0.5	-1.0	7.0 (-)	5.4 (-)	4.6 (-)	0	02.3	
6	6	08 08 35.5	-2.3	-2.8	+1.4	38.0 (13.4)	50.3 (18.8)	11.1 (12.6)	3	40.-	Kurile Is. (46°N, 154°E) M=6¾ ~ 7 (Pas.)
7	6	20 12 51.4	—	—	(-)	2.5 (-)	2.6 (-)	—		15.6	
8	8	16 27 27.1	+0.3	—	(+)	5.0 (-)	4.3 (-)	6.3 (-)	1	11.8	
9	10	18 30 25.9	+0.5	—	(-)	5.5 (1.9)	4.3 (2.1)	2.6 (2.2)	1	13.6	
10	18	09 08 42.7	+0.6	+3.2	-1.0	>35.0 (7.5)	>42.5 (10.3)	155.5 (4.1)	1	01.3	Off Choshi (35.5°N, 141.1°E)
11	18	10 39 30.-	—	—	—	1.5 (-)	1.0 (-)	1.0 (-)		58.-?	36°4'N, 140.9°E
12	18	12 47 51.-	—	—	—	3.0 (-)	2.5 (-)	1.5 (-)	1	06.-	35.5°N, 141.0°E
13	18	14 21 28.-	—	—	—	3.0 (-)	2.0 (-)	2.0 (-)	1	05.-	35.6°N, 141.0°E

14	19	13	58	543	-0.4	—	-0.5	—	2.5 (-)	—	—	16.2	
15	21	07	04	346	—	—	—	—	—	—	—	14.0	
16	21	08	08	10.-	—	—	—	—	—	—	—	44.-	
17	21	08	43	08.-	—	—	—	7.0 (-)	3.8 (-)	—	—	17.-	
18	21	13	51	349	+0.7	+0.9	-1.0	—	—	—	—	17.-	SE off Boso Pen. (33.7°N, 141.2°E)
19	27	16	30	55.6	—	—	-1.7	98. (-)	68 (-)	101.5 (-)	—	02.9	
20	29	03	39	17.-	—	—	—	—	—	—	—	16.-	
21	31	01	05	25.-	—	—	—	70.0 (14.8)	120.5 (13.3)	10.9 (13.7)	4	35.-	* China (39°N, 104°E) M = 6½ (PaS.)
22	31	07	01	29.4	—	—	—	1.8 (-)	2.5 (-)	2.2 (-)	—	16.6	

August

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			P ~ S m. s.	Remarks
			AN μ	AE μ	AZ μ	AN(TN) μ (s)	AE(TE) μ (s)	AZ(Tz) μ (s)		
1	1	00 23 35.9	+0.3	-1.2	+2.7	3.7 (-)	1.2 (-)	2.7 (-)	38.4	
2	4	07 11 50.8	—	-1.0	(+)	11.3 (-)	22.3 (-)	4.7 (-)	02.2	
3	5	03 54 03.9	—	-0.5	+0.5	3.5 (-)	3.1 (-)	1.8 (-)	07.5	
4	5	12 01 29.2	+0.7	+0.7	-0.5	4.0 (-)	5.0 (5.3)	3.3 (2.1)	32.-	
5	9	19 22 17.7	-0.9	-0.9	+1.5	2.5 (23.1)	3.5 (21.3)	2.5 (22.3)	4 25.-	Kamchatka (52°N, 161°E)
6	10	05 35 58.3	+0.9	-1.7	+2.0	—	—	—	1 15.-	30.2°N, 139.4°E depth (430 km)
7	12	14 11 22.9	—	—	—	4.8 (-)	6.1 (-)	3.6 (-)	18.4	

8	18	04	53	36.7	—	+1.2	-3.2	—	4.3 (8.5)	—	9	08.-	Tonga Is. (27°S, 174°W)
9	18	07	52	32.7	+1.4	-1.3	-2.8	24.5 (-)	24.5 (-)	10.7 (-)		09.6	
10	20	01	57	27.9	±0.6	±1.0	-0.6	7.5 (-)	14.8 (-)	10.6 (-)		02.3	
11	21	15	19	23.8	+1.2	+1.2	—	2.1 (-)	3.3 (-)	—		02.2	
12	23	13	55	17.0	—	—	—	—	—	—		15.8	
13	24	06	03	40?	—	—	—	—	—	—	10	—?	* U.S.A. (39.5°N, 118.5°W) M=6.8 (Pas.)
14	26	07	38	51.-	—	—	—	1.9 (-)	1.8 (-)	1.2 (-)		18.-	
15	27	03	19	57.7	—	—	-0.5	9.0 (-)	9.5 (-)	9.2 (-)		03.0	
16	27	10	57	12.2	—	—	—	—	12.5 (16.9)	2.5 (17.5)	3	15.-	Far S off Honshu (25°N, 143°E)
17	28	10	02	35.0	—	+1.0	+2.2	45.2 (12.1)	30.0 (8.0)	25.0 (12.3)	1	03.-	
18	30	08	00	22.4	—	-0.8	+0.5	—	3.3 (15.2)	1.1 (16.5)	3	10.-	Far E off Hokkaido (43.6°N, 147.8°E)
19	30	16	31	18.1	—	—	—	1.0 (-)	2.3 (-)	3.3 (-)		02.8	

September

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			P~S m. s.	Remarks
			AN μ	AE μ	AZ μ	AN(TN) μ (s.)	AE(TE) μ (s.)	AZ(TZ) μ (s.)		
1	2	06 19 32.-	—	—	—	4.3 (2.8)	3.0 (2.4)	1.7 (1.6)	52.-	Kanto Dist (35.9°N, 140.2°E)
2	4	03 35 54.-	—	—	—	—	7.3 (12.5)	—	5 25.-	
3	4	08 57 40.-	—	+0.6	+0.2	—	1.0 (15.8)	1.0 (12.-)	3 33.-	Formosa (21½°N, 122½°E)
4	6	18 35 49.9	—	-2.4	+3.3	—	12.3 (6.6)	11.7 (1.6)	4 04.-	Kamchatka (51°N, 158°E)

5	7	00	12	44.-	—	—	—	—	2.8 (15.4)	1.0 (3.7)	3	35.-	
6	7	00	39	41.1	—	-1.0	-1.0	—	2.0 (6.4)	—	3	46.-	
7	8	01	40	10.0	(-)	+0.6	+1.1	6.5 (-)	3.8 (-)	2.1 (-)		03.3	
8	9	00	50	56.0	—	+1.0	+1.1	—	8.8 (-)	9.6 (-)		06.4	
9	11	12	50	27.9	—	—	—	11.3 (-)	17.6 (-)	—		01.0	
10	12	07	45	53.-	—	—	—	22.5 (6.2)	58.3 (10.2)	4.7 (3.6)	1	59.-	Off S coast of Ho- kaido (40.9°N, 143.6°E) M=6¼ (Pas.)
11	15	18	06	16.0	—	-0.9	+3.4	—	4.0 (6.0)	3.4 (1.7)	8	12.-	* Fiji Is. (18°S, 178½°E) M=7 (Pas.)
12	17	07	37	22.-	—	—	—	2.4 (6.0)	8.3 (6.0)	—	2	20.-	
13	17	11	14	18.4	—	—	-1.8	2.8 (-)	2.8 (-)	2.5 (3.3)	1	45.-	
14	17	14	47	14.-	-1.3	+0.7	—	2.5 (10.6)	—	2.0 (-)	1	47.-	Far S off Honshu (29°N, 141°E)
15	19	21	52	38.7	—	—	-0.9	2.5 (-)	4.8 (-)	3.8 (-)		12.1	
16	23	21	48	25.4	-1.2	-1.5	+1.6	11.8 (18.2)	24.0 (15.2)	3.1 (19.5)	3	58.-	Karole Is. (50½°N, 156°E)
17	27	16	40	33.5	—	+0.7	-1.0	3.3 (4.6)	1.5 (-)	—	1	53.-	Hokkaido (42.7°N, 142.8°E)
18	28	03	33	36.-	—	—	—	1.1 (2.5)	1.5 (2.5)	1.0 (2.1)		—	
19	28	13	53	08.-	—	—	—	2.4 (6.9)	1.5 (5.8)	—	1	20.-	

SEISMOLOGICAL BULLETIN

October 1. 1954 — June 30. 1955

KAMIGAMO GEOPHYSICAL OBSERVATORY

KYOTO UNIVERSITY

CONSTANTS

Constants of the station

Latitude and longitude :

35° 04' N

135° 46' E

Time: All determinations are reduced to Universal Time.

Altitude: 190 meters above mean sea level.

Ground rock: Palaeozoic system.

Constants of the Seismographs

Apparatus	Component	Period	Pendulum Damping ratio	Magnification	Maximum Magnification
W	H	12 sec.	5	200	
W	V	5	5	180	
OT	N, E	8		50	
G	N, E	8			2,000
G	Z	8			2,000

(Abbreviations; W, Wiechert Seismograph; OT, Omori Seismograph;
G, Seismograph of Galitzin-type with magnification of about 2,000)

Remarks :

It is preferred that communications on this bulletin may be sent to

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October

No	Date	Time (U.T.) h. m. s.			A.	I.	M.	Max. Amp. (Period)			P ~ S		Remarks
								AN(TN) μ(s)	AE(TE) μ(s)	Az(Tz) μ(s)	m.	s.	
1	2	10	2	47.4	—	—	—	small (—)	2.5 (5.4)	25 (2.0)	—	—	deep H=450km 29°N 140°E Bonin Is. region.
2	3	2	56	46.7	—	—	—	small (—)	small (—)	small (—)	8	—	Alaska. (60°N 156°W H= about 100 km)
		11	27	55.3	—	—	—	small (—)	small (—)	small (—)	?	—	
3	5	4	19	32.4	—	—	—	13 (1.6)	6 (2.0)	5 (2.0)	50	55.7	SE off Boso Pen. central Honshu. (33.7°N 141.3°E)
4	7	7	13	—	—	—	—	small (short)	small (short)	small (short)	—	—	
5	8	4	52	—	—	—	—	small (short)	small (short)	small (short)	—	—	
6	9	7	53	—	—	—	—	small (short)	small (short)	small (short)	—	—	
7	12	16	38	49.8	—	—	—	6 (short)	3 (short)	3 (short)	—	5.0	
8	13	3	46	50.2	—	—	—	small (short)	small (short)	3 (1.4)	—	—	
9	14	1	43	—	—	—	—	—	—	—	—	—	Banda Sea. (7°S 128°E)
10		10	28	51.8	—	—	—	3 (short)	4 (short)	1 (short)	—	21.3	
11	15	2	19	40.1	—	—	—	small (—)	small (—)	small (—)	—	11.5	
12	18	11	44	36.6	—	—	—	4 (short)	6 (short)	3 (short)	—	0.00	
13	19	2	23	40.5	—	—	—	small (short)	small (short)	small (short)	—	?	
14	20	23	43	26.4	+0.5	-2.0	+2.5	29 (11.0)	4 (12.0)	4 (19.0)	1	18.7	
15	21	16	28	33.4	—	—	—	3 (short)	6 (short)	3 (short)	—	25.1	
16	22	7	37	55.7	—	—	—	small (short)	small (short)	small (short)	—	1.8	
17		17	14	59.7	—	—	—	11 (3.6)	4 (2.0)	3 (—)	—	50.8	Far off S coast of Hon- shu. (31.9°N 138.9°E H= 320km)
18	25	10	36	58.4	—	—	—	7 (short)	5 (short)	4 (short)	—	9.1	
19		11	21	58.4	—	(—)	-10	31 (short)	95 (short)	52 (short)	—	9.4	

20	26	4 29 13.3	-	-	-	small (short)	small (short)	small (short)	?	October
21	27	7 0 10.6	-	-	-	small (short)	small (short)	small (short)	8.4	
22	30	7 4 49.7	-	-	-	small (short)	small (short)	small (short)	?	

November

NO.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			P ~ S		Remarks
			AN μ	AE μ	AZ μ	AN(TN) μ(s)	AE(TE) μ(s)	AZ(TZ) μ(s)	m.	s.	
1	2	8 32 51.2	-	-	-	small (-)	small (-)	small (-)	-	-	Flores Sea. (7½°S 119°E)
2	3	15 32 32.8	-	-	-	8 (short)	10 (short)	5 (short)	-	17.3	
3	5	0 22 38.5	-	-4	-25	- (short)	scale out (short)	178 (short)	-	1.8	
4	9	12 12 14.8	-	-	-	3 (4.6)	3 (4.0)	1 (3.0)	-	-	off coast of Sanriku Dis- tricts. NE Honshu. (38.7°N 143.6°E H=40km)
5	6	12 22 20.8	-	-	-	3 (short)	4 (short)	2 (short)	-	1.1	
6	9	12 31 52.8	+1	+1	(+)	19 (short)	42 (short)	11 (short)	-	14.1	
7	16	7 42 44.6	-	-	-	small (short)	small (short)	small (short)	-	?	
8		17 51 34.1	-	-	-	small (short)	small (short)	small (short)	-	-	
9		17 51 40.8	-	-	-	small (short)	small (short)	small (short)	-	-	
10	18	5 23 39.	-	-	-	small (short)	small (short)	small (short)	4	30.	Kurile Is. (49°N 155°E H=100km)
11	18	20 46 35.5	-	-	-	85 (7.0)	90 (10.0)	15 (2.4)	1	12.5	off coast of Sanriku Districts. NE Honshu
12	19	5 57 44.4	+23	-7.5	-6.0	135 (5.0)	115 (6.0)	55 (3.0)	1	21.5	Sea of Japan. (41.2°N 131.8°E H>500km)
13	22	23 47 15.6	-	-	-	80 (short)	19 (short)	25 (short)	-	3.6	
14	23	21 18 15.8	-	-	-	small (-)	small (-)	small (-)	-	-	

15	25	11 28 13.4	-	-	-	18 (11.0)	2 (9.0)	10 (-)	-	-
16		20 47 45.2	-	-	-	small (short)	small (short)	small (short)	-	-

December

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period.)			P ~ S		Remarks
			AN M	AE M	AZ M	AN(TN) μ(s)	AE(TE) μ(s)	Az(Tz) μ(s)	m.	s.	
1	4	7 18 -									New Britain region. (5°S 152½°E)
2	6	6 1 7.8	-	-	-	13 (short)	15 (short)	9 (short)		3.7	
3		19 36 48.2	-	-	-	small (short)	small (short)	3. (short)		11.6	
4	8	8 40 19.7	-	-	-	7 (24)	3 (1.6)	4 (1.0)		42.2	off S coast of Honshu. (32.3°N 138.1°E H=320km)
5	10	23 19 50.5	-	-	-	4 (short)	6 (short)	4 (short)		1.1	
6	12	3 45 34	-	-	-3	4 (short)	3 (short)	3 (short)		6.5	
7	13	8 49 -	-	-	-	small (-)	small (-)	small (-)		?	
8	14	17 11 12.0	-	-	-	6 (short)	5 (short)	2 (short)		1.5	
9	16	11 19 25.4	-	-	-	3 (13.0)	5 (20.0)	1 (20.0)	10.	-	Nevada, U.S.A. (39½°N 118°W)
10	17	21 47 31.1	-	-	-	10 (short)	6 (short)	5 (short)		39.6	
11	20	11 43 29.1	-	-	-	16 (short)	7 (short)	7 (short)		3.3	
12		16 42 16.6	-	-	-	small (short)	small (short)	small (short)		18.9	
13	21	10 32 2.6	+12	?	-230	scale out (short)	scale out (short)	scale out (short)		1.9	
14	23	17 26 28.3	-	-	-	small (short)	small (short)	small (short)		1.7	
15		18 50 0.9	-	-	-	small (short)	small (short)	small (short)		2.3	

16	24	10 29	29.6	—	—	—	small (short)	small (short)	small (short)	—	
17	26	3 43	—	—	—	—	7 (128)	5 (142)	5 (—)	—	Far S off Honshu. (30½°N 142½°E H= 40km)
18	28	1 10	—	—	—	—	small (—)	small (—)	small (—)	—	
19	28	5 41	49.6	—	—	—	small (short)	small (short)	small (short)	1.1	
20	31	14 53	0.9	—	—	—	small (short)	small (short)	small (short)	124	

January

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			P ~ S		Remarks
			AN μ	AE μ	AZ μ	AN(TN) μ(s.)	AE(TE) μ(s.)	AZ(Tz) μ(s.)	m.	s.	
1	2	21 49 47.8	±1.0	-1.3	±1.8	6 (short)	3 (short)	2 (short)		2.8	
2	3	19 1 17.8	—	—	+0.7	— (—)	— (—)	— (—)		16.6	
3	5	1 33 —	—	—	—	4 (22.1)	small (—)	small (—)	—	—	New Zealand. (50°S 162½°E)
4	5	17 58 53.2	—	—	—	small (—)	small (—)	small (—)	—	—	
5	7	16 22 18.5	—	—	—	3 (short)	8 (short)	5 (short)		0.6	
6	8	7 43 24-	—	—	—	5 (20.5)	3 (25.6)	1 (24.2)	—	—	Santa Cruz Is. (11½°S 166½°E H=80km)
7	9	9 1 57.7	—	—	—	small (—)	small (—)	small (—)	1	11.4	Far S off Honshu.
8	9	0 22 1.3	—	—	—	small (—)	small (—)	small (—)		0.0	
9		0 39 40.9	—	-0.6	—	18 (short)	21 (short)	14 (short)		9.2	
10	10	5 36 2.7	—	—	—	3 (short)	5 (short)	3 (short)		14.4	
11	11	3 36 50.-	—	—	—	4 (—)	8 (4.8)	4 (—)		46.-	
12	13	2 11 50.-	-1.4	-1.6	+2.0	11 (23.3)	8 (23.3)	4 (22.8)	6	10.-	Aleutian Is. (53°N 172°W)

13	15	19	56	54.-	-	-	-	5 (-)	4 (-)	5 (-)	-	58.-	
14	17	2	22	46.1	+0.7	+0.6	-1.0	25 (1.4)	18 (-)	13 (1.9)	-	57.6	Central part of Chiba Pref. Central Honshu. (35.5°N 140.4°E H=80km)
15	22	6	54	10.0	-	-	-	2 (short)	5 (short)	3 (short)	-	1.6	
16	25	16	34	14.-	-	-	-	small (-)	small (-)	small (-)	-	34.-	
17	27	16	18	13.-	-	-	-	small (-)	small (-)	small (-)	1	49.-	
18	28	17	20	-	-	-	-	4 (17.2)	3 (13.3)	small (-)	-	-	Tibet. (33°N 82½°E)
19	31	16	6	14.-	-	-	-	15 (18.1)	22 (18.1)	4 (14.2)	3	54.-	

February

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			P ~ S		Remarks
			AN μ	AE μ	AZ μ	AN(TN) μ(s)	AE(TE) μ(s)	AZ(TZ) μ(s)	m.	s.	
1	1	11 11 50.6	-0.7	-	-0.8	small (-)	small (-)	small (-)	-	16.3	
2	5	20 44 -?	-	-	-	small (-)	4 (17.5)	small (-)	-	-	
3	6	1 31 2.6	-	-	-	7 (short)	11 (short)	9 (short)	-	1.8	
4	8	15 44 25.-	-	-	-	3 (13.2)	small (-)	small (-)	1	15.-	off S coast of Honshu. (33½°N 14°E H=40km)
5	12	1 47 57.1	-1.1	+4.4	-2.6	38 (short)	321 (short)	34 (short)	-	12.1	Chita Pen. Aichi Pref. Central Honshu.
6		5 19 56.2	-0.9	-1.2	+1.3	91 (short)	122 (short)	20 (short)	-	13.6	S part of Gifu Pref. Central Honshu.
7		17 28 3.3	+0.7	+0.6	+0.9	8 (short)	11 (short)	4 (short)	-	16.0	Near SE coast of Waka-yama Pref. W Honshu.
8	14	17 0 -?	-	-	-	2 (18.5)	1 (13.2)	small (-)	-	-	Molucca Passage. (2°N 126½°E)
9	16	13 24 52.6	-0.7	-	-2.0	1 (short)	4 (short)	6 (short)	-	7.8	
10	17	8 6 29.8	-1.8	-0.8	+1.5	18 (short)	35 (short)	34 (short)	-	12.7	

11	23	20 3 35-	-	-	-	-	-	-	-	-	-	-	-
12	27	19 22 11.9	-	+0.6	-1.0	8 2.3	4 1.6	-	-	43.8	off S coast of Honshu. (33.2°N 138.3°E H=320km)		
13		20 55 23-	(+)	+0.4	+2.0	109 13.2	16 27.0	13 27.4	9 5.	58.-	Kermadec Is. region (27½°S 176°W)		

March

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			P ~ S		Remarks
			AN μ	AE μ	AZ μ	AN(TN) μ (s)	AE(TE) μ (s)	AZ(Tz) μ (s)	m.	s.	
1	1	2 51 20.5	+0.9	+0.7	-3.8	4 short	6 short	4 short		7.2	
2		6 32 36.5	-0.3	-0.3	-0.9	4 short	3 short	4 short		4.6	
3		14 43 27.4	-	-	-	8 12.9	9 12.9	3 13.7	2	10.-	Far SE off Honshu. (30.2°N 142.7°E H=60km)
4		22 18 6.0	-	-	-	15 short	8 short	2 short		36.7	
5		22 21 -	-	-	-	-	-	-		-	
6	2	16 0 18.8	-	-	-	9 short	11 short	1 short		1.3	
7	4	6 10 30.4	-	-	-	5 short	4 short	2 short		0.4	
8		16 48 27.3	-6	-12	-26.6	scaleout short	scaleout short	105 short		2.7	
9	5	1 43 44	-	-	-	25 short	25 short	-		1.6	
10	6	13 40 -	-	-	-	1 -	3 -	-		-	Philippine Is. region. (9½°N 122½°E)
11	9	5 47 6.3	-	-	-	-	-	-		?	
12	14	13 19 31.5	-	-	-	3 1.7	4 1.7	3 1.5		?	Alutian Is. region. (52½°N 173½°W H=100km)
13	15	11 20 7.1	-	-	-	5 short	5 short	3 short		25	
14	16	16 27 42.8	-	-	-	8 short	9 short	5 short		2.3	

15		20 20	—	—	—	—	3 (15.2)	2 (12.8)	— (—)	—			
16	17	0 12	19.1	-4	-3	+5	339 (270)	90 (8.0)	15 (25.0)	4	303		
17		9 0	0	—	—	—	6 (—)	3 (—)	1 (—)	—			
18	19	17 17	30.2	—	—	—	4 (—)	8 (—)	1 (—)	—	31.3		
19		18 41	3.2	—	—	—	15 (short)	14 (short)	8 (short)	—	2.1		
20	20	19 52	—	—	—	—	— (—)	— (—)	— (—)	—	?		
21	22	6 28	—	—	—	—	— (—)	5 (19.0)	3 (15.0)	—	—		
22		14 14	—	—	—	—	3 (—)	2 (6)	4 (—)	—	—	Indian Ocean (8½°S 92°E)	
23	25	5 57	36.4	—	—	—	5 (short)	3 (short)	— (short)	—	0.7		
24		20 13	4.4	—	—	—	2 (2.0)	4 (short)	1 (short)	—	?	Sea of Japan (38.0°N - 134.9°E H=320km)	
25		9 13	56.3	—	—	—	34 (6.4)	21 (8.0)	5 (3.0)	2	17.1	off S coast of Kyushu. (29.4°N 130.1°E H=60km)	
26	28	9 36	9.6	—	—	—	1 (—)	3 (—)	— (—)	—	—		
27	29	8 17	20.5	—	—	—	8 (short)	14 (short)	5 (short)	—	2.1		
28	31	18 23	4.8	—	—	—	285 (17.4)	125 (8.0)	20 (19.0)	5	—		
29		20 58	49.9	—	—	—	3 (24.1)	— (—)	— (—)	—	—		

April

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			PWS		Remarks	
			AN μ	AE μ	AZ μ	AN(TN) μ(s.)	AE(TE) μ(s.)	AZ(TZ) μ(s.)	m.	s.		
1	4	11 15	41.2	—	—	—	18 (7.6)	20 (7.0)	10 (5.6)	4	60	Formosa region. (22°N 121°E)
2	5	11 32	—	—	—	—	—	—	—	?	—	

3		14	7	—							?		
4	6	0	30	41.5	—	—	—	80 (short)	75 (short)	65 (short)		2.7	
5	7	21	15	19.0								2.1	
6	8	16	24	14.4								1.4	
7	9	2	4	46.6	—	—	—	3 (short)	3 (short)	1 (short)		—	
8	10	2	9	44.7	—	—	—	8 (2)	12 (1)	9 (—)		21.8	E part of Shikoku. (34.1°N 134.2°E H=10km)
9		7	56	33.8	—	—	—	40 (short)	49 (short)	45 (short)		3.0	
10		17	43	50.0								—	Philippine Is. (8°N 125°E)
11	12	17	12	3.6	—	—	—	3 (—)	3 (—)	1 (—)		—	
12	14	1	35	2.5	—	—	—	scaleout (32.0)	scaleout (32.0)	85 (14.4)	5	4.7	Sikang Province, China (30°N 101°E shallow)
13	15	3	49	33.0	—	—	—	106 (14.4)	65 (39.6)	13. (14.0)	7	—	Kirghiz region (40°N 75°E)
14		10	55	4.8	—	—	—	18 (short)	scaleout (short)	20 (short)		2.7	
15		22	8	40.4	—	—	—	15 (short)	21 (short)	9 (short)		17.0	
16	16	16	12	31.3	—							—	
17		22	18	9.3								20.3	
18	17	18	40	40.2	-4	—	?	68 (17.0)	55 (13.0)	5 (24.0)	4	30.5	Kamchatka region. (52°N 159½°E H=60km)
19		21	32	5.5									
20		23	22	—									
21	19	20	44	—									
22	23	3	50	49.3	—	—	—	4 (short)	3 (short)	1 (short)		26.1	
23		9	43	45.2									
24		16	41	8.5	+1	+1	+1	12 (2.2)	24 (5.0)	4 (2.0)	1	27.7	

25	24	13	11	—	—	—	—	15 (18.0)	8 (14.0)	1 (22.2)	—	Southern Kurile Is. (44 $\frac{1}{2}$ °N 149 $\frac{1}{2}$ °E shallow)
26	27	3	54	53.9	+1	-3	-3	27 (short)	86 (short)	20 (short)	11.5	
27	28	8	27	39.2	—	—	—	8 (short)	13 (short)	5 (short)	10.7	
28		19	12	—								
29	30	14	7	8.6	—	—	—	12 (17.6)	6 (6.0)	small (—)	1 44.-	off coast of Sanriku Dis- tricts, NE Honshu. (39.7°N 143.9°E H=60km)

May

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			P ~ S		Remarks
			AN μ	AE μ	AZ μ	AN(TN) μ (s.)	AE(TE) μ (s.)	Az(Tz) μ (s.)	m.	s.	
1	1	9 57 17.0	—	—	—	204 (16.2)	62 (16.2)	11 (—)	1	42.-	off E coast of NE Honshu. (39 $\frac{3}{4}$ °N 143 $\frac{3}{4}$ °E H=60km)
2		14 0 41.-	—	—	—	194 (16.3)	122 (6.1)	11 (7.5)	1	49.-	off E coast of NE Honshu. (39 $\frac{3}{4}$ °N 143 $\frac{3}{4}$ °E H=60km)
3		16 47 57.9	+0.3	—	-0.4	6 (short)	6 (short)	4 (short)	—	18.1	
4		17 58 25.-	—	—	—	3 (5.0)	5 (5.9)	small (—)	—	34.-	SE part of Hiroshima Pref. Honshu. (34.5°N 133.3°E H=20km)
5	3	17 9 35.5	—	—	—	22 (9.7)	7 (6.1)	small (—)	1	32.-	off E coast of NE Honshu. (39.5°N 143.8°E H=40~ 60km)
6	6	0 6 31.-	—	—	—	19 (7.3)	8 (6.6)	small (—)	1	40.-	off E coast of NE Honshu. (40.1°N 143.8°E H=60km)
7	11	15 50 —	—	—	—	26 (6.7)	9 (4.8)	5 (2.9)	1	24.-	SE off Boso Pen. Cent- ral Honshu. (35.1°N 141.6°E H=40km)
8	12	8 37 25.?	—	—	—	small (—)	small (—)	small (—)	—	56.?	Near E coast of Central Honshu. (35.9°N 140.9°E H=20km)
9	14	6 6 17.7	+2.3	-2.3	+5.0	56 (7.1)	45 (7.0)	18 (2.4)	1	29.1	Bobin Is. (27.8°N 140.2°E H=500km)
10	16	3 36 39.-	—	—	—	2 (12.7)	small (—)	small (—)	1	30.?	SE off Boso Pen. Central Honshu. (32 $\frac{1}{2}$ °N 142 $\frac{1}{2}$ °E H=60km)
11	17	2 57 25.9	-0.7	+0.8	+0.6	15 (short)	149 (short)	13 (short)	—	17.0	
12		14 58 29.-	—	—	—	195 (14.1)	41 (12.0)	10 (20.0)	6	58.-	Nicobar Is. (7°S 94 $\frac{1}{2}$ °E)

13		21 24	38.4	—	—	+2.7	4 (2.7)	8 (2.7)	3 (0.6)	—	51.7	Sea of Japan (37 $\frac{1}{2}$ °N 134 $\frac{1}{2}$ °E H=360km)
14	18	4 39	54.6	-1.2	-1.5	-1.3	22 (7.0)	15 (8.0)	10 (2.3)	—	24.6	Sp. of Tokushima Pref. W Honshu. (33.8°N 134.3°E H=0~20km)
15		5 30	29.-	—	—	—	small (—)	1 (4.0)	small (—)	3	45.-	
16	20	16 9	56.7	+0.3	—	—	12 (short)	38 (short)	11 (short)	—	25	
17	21	1 32	16.-	—	—	—	2 (7.5)	2 (9.7)	small (—)	1	30.-	
18		3 32	48	—	+1.0	(—)	22 (8.6)	12 (7.3)	small (—)	1	36.-	NE off Bonin Is. (29°N 141°E H=60km)
19		20 4	25.1	+1.6	+5	-20	40 (short)	61 (short)	48 (short)	—	11.7	Central Part of Wakaya- ma Pref. W Honshu. (34.2°N 135.5°E H=70~ 80km)
20	23	9 39	27.9	—	—	—	small (—)	small (—)	small (—)	—	16.7	
21	26	12 47	17.-	—	—	—	4 (4.3)	small (—)	small (—)	—	40.-	
22		16 32	20?	—	—	—	8 (16.6)	small (—)	small (—)	—	—	Solomon Is. (10°S 161°E)
23	30	12 34	25.1	+36.0	-15.0	+23.9	>237 (6.0)	186 (7.2)	56 (3.4)	2	07.5	Volcano Is. (24 $\frac{1}{2}$ °N 142 $\frac{1}{2}$ °E H=600km)
24		23 34	12.-	—	—	—	4 (24.0)	small (—)	small (—)	5	50.-	
25	31	14 46	12.7	-1	—	—	8 (6.0)	3 (3.0)	— (—)	1	58.2	off S coast of Hokkaido (42.0°N 141.5°E H=90km)

June

No.	Date	Time (U.T.) h. m. s.	A. I. M.			Max. Amp. (Period)			P ~ S m. s.	Remarks	
			AN μ	AE μ	AZ μ	AN(TN) μ(s.)	AE(TE) μ(s.)	AZ(Tz) μ(s.)			
1	2	0 25 58.9	-1.5	-1.5	+1.0	15 (20.0)	10 (17.0)	3 (20.0)	5	43.6	Albatross (52°N 179°E)
2	4	6 39 42.8	—	—	—	3 (short)	4 (short)	1 (short)	—	—	
3		14 40 41.5	+0.5	+0.5	-0.5	8 (1.0)	5 (2.0)	4 (1.6)	—	44.7	off S coast of Honshu. (33.4°N 140.0°E)

4		16	53	13.8	-	-	-	28 (10.0)	11 (44)	4 (164)	1	33.0	Off coast of Sanriku Dis- tricts. (40.0°N 143.3°E)
5		17	24	16.6	-	-	-	8 (6.0)	15 (6.0)	3 (1.2)	2	0.-	Off coast of Sanriku Dis- tricts. (40.0°N 143.3°E)
6	7	0	54	-	-	-	-	6 (-)	5 (14)	- (-)		?	
7		8	2	49.4	-	-	-	6 (short)	5 (short)	5 (short)		0.6	
8	9	4	49	27.6								?	
9	10	15	6	6.8	+4	+4	+3	23 (short)	37 (short)	38 (short)		1.7	
10	12	20	35	14.7	-1	-1	+1	5 (18.0)	5 (22.0)	1 (20.0)	3	48.0	Kametchaka (50°N 155°E)
11	13	9	22	52.3	-11	-12	-16	95 (short)	134 (short)	28 (short)		2.7	
12	14	16	35	42.0	-	-	-	small (-)	small (-)	small (-)		-	Off E coast of Ibaraki Pref. (36.2°N 141.8°E)
13		17	23	21.1	-	-	-	61 (70)	65 (5.0)	15 (3.0)	1	0.5	Off E coast of Ibaraki Pref. (36.5°N 142.2°E)
14	15	11	4	24	-	+25	-10	3 (short)	3 (short)	small (-)		16.5	
15	16	13	45	9.8	-	-	-	small (short)	3 (short)	2 (short)		6.5	
16	17	8	9	53.1	-	-	-	small (-)	small (-)	small (-)	4	-	
17		9	23	7.7									
18	20	12	14	28.9	-	-	-	15 (-)	5 (11.0)	small (-)	5	34.0	Aleutian (52°N 175°E)
19	21	12	42	13.1	+3.0	-25	+3.0	4 (3.0)	4 (2.8)	3 (1.6)	1	24.1	
20	23	8	41	4.5	-	-	-	4 (2.0)	4 (1.0)	3 (1.0)		54.9	Off E coast of Hukushima Pref. (37.4°N 141.5°E)
21		13	18	37.0	-	-	-	11 (short)	10 (short)	8 (short)		25.1	Tottori Pref. (35.2°N 133.3°E)
22		13	42	47.3	(+)	-3.2	-1.2	50 (short)	47 (short)	32 (short)		20.4	Tottori Pref. (35.2°N 133.3°E)
23		14	13	48.0	-	-	-	6 (short)	6 (short)	small (short)		26.1	Tottori Pref. (35.2°N 133.3°E)
24	25	23	38	16.7	-	-	-	2 (short)	2 (short)	small (short)		18.3	

25	29	4	56	46.9	—	—	—	13 (9)	5 (124)	small (—)	2	49.4		
26		17	34	11.7	-39.0	-27.5	+36.0	94 (short)	165 (short)	81 (short)	—	3.3		

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