

seismology

EXCHANGE
DEC 4 1934



SEISMOLOGICAL BULLETIN

OF THE

AITIKEN METEOROLOGICAL OBSERVATORY

NAGOYA JAPAN

VOL. V. NO. 1,

FROM JANUARY TO JUNE.

1934

NAGOYA

October 1934

CONSTANTS

Latitude and longitude of the center of the Seismographic room

$$\lambda = 35^{\circ}10' \text{ N}$$

$$\varphi = 136^{\circ}58' \text{ E from Greenwich}$$

Altitude, 51.7^{m} above mean sea level.

Lithologic foundation, Schottered clay (Tertiary)

Time. 135°E mean civil time.

Constants of the Seismographs

Apparatus	Component	T°	ξ	$\frac{r}{T^2}$	V	
Wiechert 200kg	I {	N	5.0	7	0.01	78
		E	5.1	8	0.01	76
	II {	N	5.2	8	0.01	64
		E	5.2	9	0.01	64
	III {	N	5.2	8	0.01	69
		E	5.3	10	0.01	69
	IV {	N	5.3	9	0.02	93
		E	5.3	9	0.02	94
" 80kg	Z	3.7	10	0.01	90	
Omori	{	N	18.0	4	0.02	30
		E	18.0	4	0.01	30

Note. I, Jan. 1, to. Feb. 5

II, Feb. 6 to. Mar. 14

III, Mar. 15 to. Jun. 27

IV, Jun. 28 to. Jun. 30

Symbols and Notations

I. Phases of the Seismogram.

P = First preliminary tremors (Longitudinal)

\overline{P} = Individual or upperfirst preliminary tremors.

S = Second preliminary tremors (Transverse)

L = Long waves at the beginning of the surface phase

M = Greatest motion in the surface phase.

F = End of discernible movements.

II. Nature of the motion.

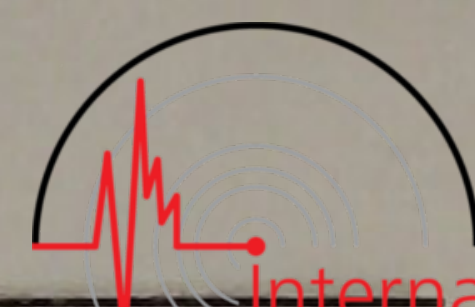
i = Sudden beginning of the motion.

e = Gradual beginning of the motion.

III. Remarks.

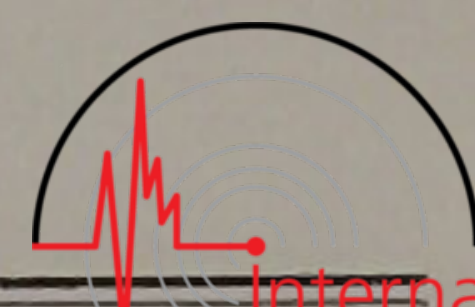
Covered = Covered by following shock.

Is. = Island. Pref. = Prefecture.

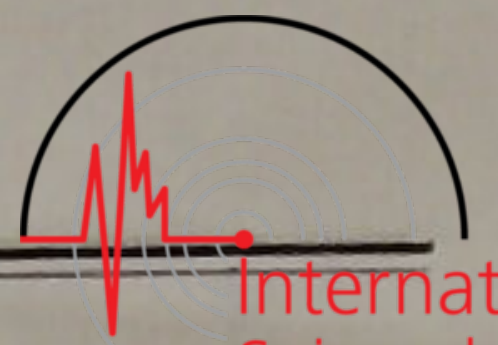


No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
1	Jan. 2	eP	14 51 39.5	μ	μ	μ		196	NE. sea off Idu Osima.
		eS	14 52 05.9						
		F	14 54 11-						
2	" 3	P	18 46 57.1						A distant earthquake. SW. sea off Kamtchatka peninsula.
		L	18 50 42.7						
		F	19 02 01-						
3	" 9	iP	8 07 50.1	-6	-3	-4		232	$\phi=133.9$ E, $\lambda=34.0$ N. Upper course of the river Yosino in Tokushima pref. Slight shock was felt at W. part of Japan. Strong was felt near the centre.
		S	8 08 21.4						
		ME	8 08 22.8	-171					
		Mz	8 08 26.7			-44			
		MN	8 08 42.5		+205				
		F	8 19 21-						
4	" 10	eP	1 57 21.9					200	Near Mikkaido in Ibaragi pref.
		eS	1 57 48.9						
		F	1 59 29-						
5	" 11	P	8 30 36.6					267	A deep focus earthquake. In the Kumano-nada.
		S	8 31 12.5						
		F	8 33 31-						
6	" 12	L	22 49 07.0						A distant shock.
		F	22 57 22-						
7	" 13	eP	2 15 12.7					148	Upper course of the river Sagami.
		eS	2 15 32.2						
		F	2 16 38-						
8	" 13	eP	9 12 12.2					262	In the Kasima-nada.
		eS	9 12 47.5						
		F	9 14 10-						
9	" 13	eP	15 27 34.5						Epicenter unknown.
		eS?	15 28 03.4						
		F	15 29 14-						
10	" 15	ePz	17 51 24.0					4900	A distant earthquake. Near city of Calcutta in India.
		PP	17 53 16.4						
		S	17 58 01.2						
		SS	18 01 32.3						
		L	18 06 23.8						
		MN ₁	18 10 13.8		-100	13.2			
		MN ₂	18 11 50.1		-117	14.0			
		ME	18 11 51.0	+155		14.0			
		Mz	18 11 54.3			+46			
F	19 16 -								

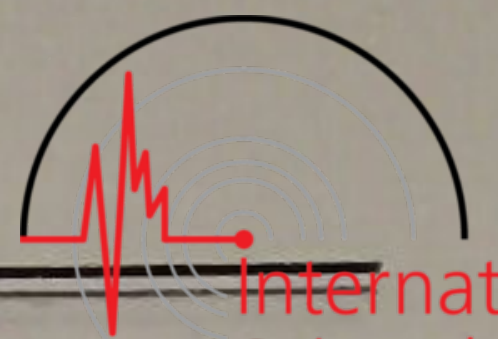
No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks		
				AE	AN	Az					
			h m s	μ	μ	μ	s	km.			
11	Jan. 18	eP	11 12 33.6					295	Near Iwai in Ibaragi pref.		
		eS	11 13 13.4								
		F	11 14 29—								
12	" 19	P	18 36 01.0					300	Near Tateno in Ibaragi pref.		
		eS	18 36 41.4								
		F	18 38 24—								
13	" 21	eP	16 16 11.1					259	SSE. sea off Katuura in Tiba pref.		
		eS	16 16 46.0								
		F	16 18 10—								
14	" 23	eP	11 03 03.4					188	In the Kii strait.		
		S	11 03 28.6								
		F	11 05 42—								
15	" 24	eP	23 26 32.6					222	Near Inubanuma.		
		eS	23 27 02.5								
		F	23 28 29—								
		eP	6 42 37.3							339	ψ=141.1E, λ=37.0N. E. sea off Sioya cape. Slight shock was felt at NE. part of Kwanto district.
		S	6 43 23.0								
ME	6 43 39.4	+17			—						
MN	6 43 44.5		-17		2.4						
F	6 46 31—										
17	" 27	eP	8 51 17.2					269	Kuju Kuri hama.		
		eS	8 51 53.4								
		F	8 53 45—								
18	" 27	eP	9 41 07.3					247	Near Kasumigaura.		
		eS	9 41 40.6								
		F	9 44 —								
19	" 28	e	8 04 26.4						A local shock. Near Gihu. Feeble tremors.		
		F	8 05 09—								
20	" 29	eP	1 08 01.5					37	A local shock. Near Nagoya.		
		S	1 08 06.5								
		F	1 09 04—								
21	" 29	P	10 40 09.8					680	ψ=131.0E, λ=33.0N. Focus near the surface. W. foot of Mt. Aso at Kyusyu. Slight shock was felt at N. part of Kyusyu.		
		S	10 41 24.4								
		ME1	10 41 49.9	-24			3.0				
		MN1	10 41 59.4		-28		3.2				
		ME2	10 42 09.7	-24			3.1				
		MN2	10 42 41.5		+22		2.6				
F	10 49 03—										



No.	Date	Phase	Time M. C T	Amplitude			Period s	△ Epicentre- distance km.	Remarks
				AE μ	AN μ	Az μ			
22	Jan. 20	eP	21 36 21.4				3.0	680	ψ = 143.8E, λ = 37.6N. ESE. about 220km. from Kinkwazan. Slight shock was felt NE. part of Japan.
		S	21 37 35.6						
		M _N	21 38 14.0						
		F	21 43 51-						
23	" 30	eP	7 12 57.3					320	Kuju Kuri hama.
		eS	7 13 40.5						
		F	7 15 49-						
24	Feb. 1	P	9 16 31.2				2.8	177	ψ = 139.2E, λ = 35.2N. Origin about 100 km. under the ground. Near mouth of the river Sagami.
		S	9 16 55.0						
		M _N	9 16 59.7						
		F	9 21 16-						
25	" 1	e	23 24 19.2						Feeble tremors. Epicentre unknown.
		F	23 27 28-						
26	" 2	eP	0 29 08.6					620	S. sea of Hatijyo Is.
		S	0 30 16.4						
		F	0 34 13-						
27	" 2	e	1 37 55.7						In the Kii strait.
		F	1 39 48-						
28	" 2	e	7 57 10.3						A local shock?
		F	8 01 11-						
29	" 3	e	3 32 18.6						In the Sagami Bay.
		F	3 34 45-						
30	" 3	eP	23 41 23.5						A distant shock.
		eL	23 54 -						
		eF	0 05 -						
31	" 4	eP	12 14 25.4					1650	A distant earthquake. Near Marianna Islands.
		eS	12 17 16.7						
		F	12 23 08-						
32	" 4	e	12 24 48.6						No. 31 shocks wave? Feeble tremors.
		F	12 27 53-						
33	" 5	eP	1 09 38.5	+26				258	ψ = 133.9E, λ = 34.9N. Near city Okayaya Slight shock was felt near the centre.
		S	1 10 13.3						
		M _E	1 10 20.2						
		F	1 15 17-						



No.	Date	Phase	Time 135° E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
			h m s	μ	μ	μ	s	km.	
34	Feb. 5	eP?	7 07 44.0						A distant earthquake. Banda sea in the South Ocean.
		eS	7 09 06.1						
		eF	7 18 40-						
35	" 5	e	15 28 08.1						Sea off Sioya cape.
		F	15 30 06-						
36	" 7	eP	9 22 46.2					150	W. part of the Toyama bay.
		eS	9 23 06.5						
		F	9 25 02-						
37	" 8	e	7 31 06.4						Feeble tremors. Epicentre unknown.
		F	Coverd						
38	" 8	eP	7 32 03.1					288	SW. sea off Yakusima in Kagosima pref.
		S	7 32 33.9						
		F	7 36 18-						
39	" 8	eP	15 02 38.0					178	Lower course of the river Arita.
		S	15 03 01.9						
		F	15 04 52-						
40	" 9	eP	4 15 54.3					180	Near Kuruno in Tiba pref.
		S	4 16 18.6						
		F	4 18 02-						
41	" 11	eP?	0 22 10.3					610	S. sea off Hatijyo Is.
		S	0 23 17.7						
		F	0 28 09-						
42	" 11	P	7 03 04.5					432	ψ=142.0E, λ=37.4N. NE. sea about 100km from Sioya cape. Slight shocks were felt S. part of Tohoku and almost of Kwanto district.
		S	7 04 02.8						
		ME	7 04 16.1	-168					
		Mz	7 04 18.3			+40	2.5		
		MN ₁	7 04 25.5		±131		2.1		
		MN ₂	7 04 39.8		-162		2.3		
43	" 12	L	20 49 37-						A distant shock. P: uncertain.
		F	21 03 -						
44	" 13	e	0 10 25.0						S. sea off Idu Osima. Feeble tremors.
		F	0 13 -						
45	" 13	P	6 45 12.7					610	ψ=139.9E, λ=33.7N. N. sea off Hatijyo Is.
		eS?	6 46 20.1						
		F	6 54 18-						



No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
			n m s	μ	μ	μ	s	km.	
46	Feb. 13	e F	11 13 51.4 11 15 03-						A local shock. Near city of Gihu.
47	" 14	iP S MN Mz ME L F	13 04 53.0 13 09 07.7 13 09 29.8 13 09 33.2 13 09 43.7 13 13 00.5 13 58 -	-13 +200	-12 +197	-8 +20	 8.0 7.6 7.2	2620	A distant earthquake. W. sea off Luzon Is.
48	" 14	eP? S F	16 03 58.4 16 04 13.5 16 06 47-						A local shock. near Gihu city.
49	" 15	e F	2 19 55.4 2 23 19-						Near Nagoya city?
50	" 16	eP S F	8 28 26.2 8 29 30.5 8 34 16-					580	Sea off Hatijyo Is.
51	" 16	L F	15 48 37.0 16 01 -						A distant shock. P: uncertain.
52	" 17	eP S ME MN Mz F	12 11 13.1 12 12 05.3 12 12 20.4 12 12 21.9 12 12 38.2 12 19 18-	+41	+66	-9	2.5 3.1 2.4	388	$\psi=141.1E, \lambda=36.2N.$ In the Kasima-nada. Slight shock was felt at NE. part of Kwanto district.
53	" 17	eP eS F	15 15 51.2 15 16 40.0 15 20 56-					362	$\psi=141.7E, \lambda=37.0N.$ E. sea about 70km. from Sioya cape.
54	" 17	eP eS ME MN Mz F	18 17 16.9 18 18 10.5 18 18 26.7 18 18 27.4 18 18 44.3 18 26 21-	-42	±78	-12	2.0 2.2 1.9	397	$\psi=141.1E, \lambda=36.2N.$ In the Kashima-nada. Slight shock were felt at NE. part of Kwanto and Hukusima pref.
55	" 17	P S F	23 50 53.2 23 51 00.0 23 52 08-					50	A local shock. Middle course of the river Kiso.

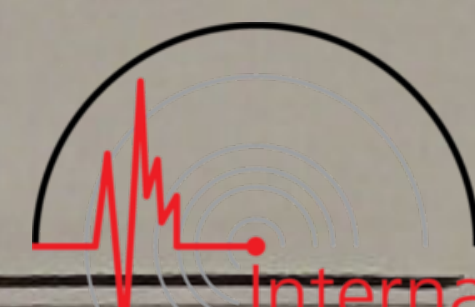
No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
			h m s	μ	μ	μ	s	km.	
56	Feb. 19	eP?	11 14 36.0						Middle course of the river Huji in Sizuoka pref.
		S	11 14 41.3						
		F	11 15 38—						
57	" 21	P	15 48 26.6					347	Near Mikkaido in Ibaragi pref.
		S	15 49 13.4						
		F	15 51 48—						
58	" 22	eP	10 50 44.8					329	ψ = 141.3E, λ = 36.2N. In the Kasima-nada. Slight shock were felt at S. part of Tohoku and all Kwanto.
		S	10 51 29.0						
		ME	10 51 45.4	+23			1.5		
		MN	10 51 48.8		+19		1.6		
		F	10 56 35--						
59	" 24	eP	14 06 38.1					260	W. sea off Hatijyo Is.
		S	14 07 13.1						
		F	14 09 51—						
60	" 24	P	15 26 57.7	—	+	—		1910	ψ = 143.0E, λ = 24.5N. SSE. sea about 300km. from Titi- sima. (deep focus)
		S	15 30 12.6						
		MZ	15 32 56.3			—22	15.3		
		MN	15 35 33.0		—70		13.4		
		ME1	15 36 07.4	—44			11.3		
		ME2	15 37 31.7	±48			11.1		
		F	17 17 —						
61	" 26	S	1 28 11.1						A distant shock. P. uncertain.
		F	1 36 49—						
62	" 27	eP	19 30 38.9					41	A local shock. Near Nagoya city.
		S	19 30 44.4						
		F	19 31 38—						
63	" 28	eP	12 03 46.5					540	SE. sea off Katuura in Tiba pref.
		S	12 04 47.0						
		F	12 09 51—						
64	" 28	eP	12 19 28.4					296	Ditto.
		S	12 20 08.3						
		F	12 23 45—						
65	" 28	eP	16 01 26.9					600	Ditto.
		S	16 02 33.2						
		F	16 06 06—						



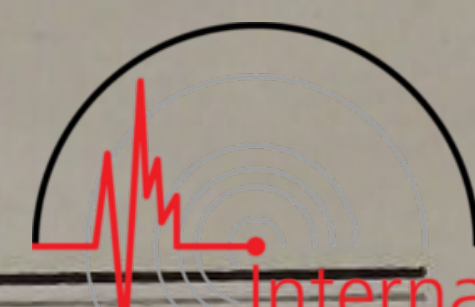
No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	AZ			
			h m s	μ	μ	μ	s	km.	
66	Feb. 28	eP	16 48 40.8					190	Near Higata in Wakayama pref.
		S	16 49 06.3						
		F	16 52 51—						
67	" 28	P	23 29 42.2						A distant earthquake. Near Newguinea Is.
		L	23 41 26.0						
		F	0 09 —						
68	Mar. 2	e	4 49 16.8						Near Wakayama city.
		F	4 51 57.0						
69	" 2	e	5 15 07.8						Ditto.
		F	5 18 07—						
70	" 2	e	7 05 48.9						A distant shock.
		F	7 21 11—						
71	" 2	eP	14 15 40.0					304	In the Kasima-nada.
		eS	14 16 20.9						
		F	14 19 06—						
72	" 2	eP	21 04 43.2					383	SSW. sea off Hatijyo Is.
		S	21 41 34.8						
		F	21 45 13—						
73	" 4	e	6 09 43.5						NE. sea off Hatijyo Is.
		F	6 13 12—						
74	" 4	P	11 18 19.6					79	Near mouth of the river Ota in Siduoka pref.
		S	11 18 30.2						
		F	11 20 05—						
75	" 4	e	20 23 23.2						A distant Earthquake. Near Aleutian Islands.
		F	20 25 57—						
76	" 5	P	20 58 45.4					9150	A distant earthquake.
		S	21 09 03.5						
		L	21 14 46.1						
		F	22 16 —						
77	" 7	eP	23 16 26.8					420	Sea off Inubo cape.
		S	23 17 17.4						
		F	23 21 06—						
78	" 9	eP	0 11 45.3					269	Epicenter unknown. P and s phases time approximate.
		eS	0 12 21.6						
		F	0 14 40—						



No.	Date	Phase	Time 135°E M. C. T.	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	AZ			
			h m s	μ	μ	μ	s	km.	
79	Mar. 11	e	19 44 36.3						Sea off the Ensyu nada.
		F	19 52 48—						
80	" 13	e	3 15 27.2						In Okhotsk sea. Feeble tremors.
		F	3 18 26—						
81	" 13	eP	22 21 16.5					5700	A distant earthquake.
		S	22 28 37.1						
		L	22 35 22.2						
		F	22 53 —						
82	" 14	eP	1 59 20.2					163	Near Sionomisaki.
		S	1 59 42.1						
		F	2 01 42—						
83	" 16	e	23 21 21.9						A distant shock.
		F	23 30 40—						
84	" 18	P	3 37 46.7					393	Sea off Kujyukuri hama.
		S	3 38 39.6						
		ME	3 38 48.0	-14			2.5		
		MN	3 38 56.3		±14		2.2		
		F	3 43 30—						
85	" 18	iP	13 37 47.4	+15	-9				Near Kwarenko in Taiwan.
		F	13 46 44—						
86	" 19	e	20 28 13.1						Ditto.
		F	20 36 35—						
87	" 20	P	11 31 08.3					84	Upper course of the river Yosino in Nara pref.
		S	11 31 19.6						
		F	11 32 35—						
88	" 20	P	11 46 14.6						Near Kwarenko in Taiwan.
		eL	11 52 27.5						
		F	12 13 —						
89	" 21	P	9 56 00.8					840	Sea off Miyako.
		S	9 57 31.5						
		MN	9 58 02.8		±35		2.4		
		ME	9 58 12.2	+32			2.3		
		F	10 04 26—						



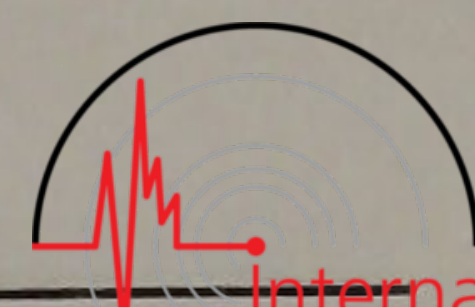
No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
90	Mar. 21	iP	h m s 12 40 21.6	μ -33	μ +9	μ +14	s	km.	$\psi = 139.00E, \lambda = 34.85N.$ Near Mt. Amagi in Idu peninsula. Moderate shock was felt near the center.
		iS	12 40 43.3						
		MN ₁	12 40 44.6		+322		1.8		
		MZ ₁	12 40 54.3			-86	1.4		
		ME ₁	12 41 05.4	-229			1.5		
		MZ ₂	12 41 07.9			-73	1.2		
		MN ₂	12 41 12.5		+390		2.5		
		ME ₂	12 41 15.3	-280			1.4		
		F	12 50 12-						
91	" 21	P	14 40 50.1					E. sea off Miyako.	
		S?	14 41 43.2						
		F	14 45 25-						
92	" 22	P	0 09 06.9				150	Near Kano in Sizuoka pref.	
		S	0 09 27.2						
		F	0 11 10-						
93	" 24	P	21 13 33.4				5510	A distant earthquake.	
		S	21 20 43.0						
		MN	21 20 49.4		-30	4.4			
		ME	21 20 51.8	+56		4.5			
		L	21 27 57.1						
		F	21 57 -						
94	" 27	e	4 10 32.4					Coast of Kujuyukuri hama.	
		F	4 12 38-						
95	" 30	eP	13 32 18.3				356	Near Matudo in Tiba pref.	
		S	13 33 06.1						
		F	13 35 04-						
96	" 30	eP	23 55 52.1				660	$\psi = 132.1E, \lambda = 32.3N.$ In the Hyuga-nada.	
		S	23 57 04.1						
		F	24 01 27-						
97	April 2	eP	8 36 21.2				339	In the Kasima-nada.	
		S	8 37 06.9						
		F	8 39 24-						
98	" 2	eP	14 04 53.5					Mt. Asama.	
		eS?	14 05 40.1						
		F	14 09 17-						



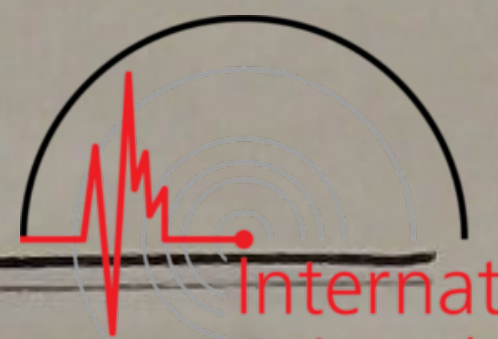
No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	Δ Epicentre- distance	Remarks
				AE	AN	AZ			
			h m s	μ	μ	μ	s	km.	
99	April 3	eP	10 11 12.0					356	Near Inubo cape.
		S	10 11 59.9						
		ME	10 12 22.0	+12			1.8		
		MN	10 12 24.8		-20		2.4		
		F	10 18 24-						
100	" 3	P	17 21 35.4					33	A local shock. Near Gihu city.
		S	17 21 39.8						
		F	17 23 -						
101	" 4	P	7 34 03.6						NW. sea off Titizima.
		L	7 40 59.0						
		F	7 58 -						
102	" 4	eP?	15 44 17.3						Central Japan.
		S	15 45 22.6						
		F	15 48 43-						
103	" 5	eP	17 57 55.8					415	Sea off Kujuyukuri hama.
		eS	17 58 51.7						
		MN	17 59 03.6		-32		2.6		
		ME	17 59 39.9	+19			2.1		
		F	18 04 41-						
104	" 7	P	4 10 39.4					620	ψ = 141.7E, λ = 37.3N. NE. sea off Sioya cape. Strong shock was felt near the centre. Slight shock were felt over Kwanto, Tohoku and S. part of Hokkaido.
		S	4 11 47.9						
		ME ₁	4 12 04.9	-180			3.0		
		MN ₁	4 12 09.3		±304		2.6		
		MN ₂	4 12 34.7		-348		3.5		
		ME ₂	4 12 40.2	±185			3.4		
		F	4 19 31-						
105	" 8	eP?	1 22 34.5						Sea off Sioya cape.
		S	1 22 59.7						
		F	1 24 39-						
106	" 8	e	2 52 36.5						A local shock? Feeble tremors.
		F	2 54 35-						
107	" 8	eP	8 04 54.3					43	S. part of the Ise bay.
		S	8 05 00.1						
		F	8 05 53-						
108	" 8	eP	11 54 19.2					121	Near Wakayama city.
		S	11 54 35.4						
		F	11 55 57-						

No.	Date	Phase	Time 135° E M. C. T.	Amplitude			Period	△ Epicentre distance	Remarks
				AE	AN	Az			
			h m s	μ	μ	μ	s	km.	
109	April 8	eP	12 23 18.1					146	Near Wakayama city.
		S	12 23 37.7						
		F	12 25 09-						
110	" 9	e	11 32 06.1						Near Tiba city.
		F	11 33 46-						
111	" 9	eP?	15 01 18.0						Near Koti city.
		eS	15 01 40.0						
		F	15 03 05-						
112	" 10	P	0 40 10.3					115	In the Kumano-nada.
		eS	0 40 25.8						
		F	0 42 13-						
113	" 10	P	19 31 29.3						A distant shock
		eL	19 39 28.5						
		F	19 49 -						
114	" 11	eP	19 54 30.1					279	ψ = 140.1E, λ = 35.6N. Near Tiba city.
		S	19 55 07.6						
		ME	19 55 29.1	-13		1.1			
		F	19 59 26-						
115	" 12	e	12 25 39.3						A distant ear hquake. Vicinity of Luzon Is.
		F	12 34 14-						
116	" 13	eP	0 00 08.2						Epicentre unknown.
		eS?	0 00 39.4						
		F	0 02 17-						
117	" 15	e	3 51 02.6						N. part of the Harimanada.
		F	3 53 01-						
118	" 15	P	19 33 03.9					240	ψ = 140.0E, λ = 34.5N. SSE. sea off Nozima cape. Slight shock was felt at almost of Kwanto district.
		S	19 33 36.1						
		MN	19 34 16.7		+272	2.0			
		ME	19 34 20.2	-226		1.9			
		F	19 46 58-						
119	" 16	P	7 21 16.2						Near Mindanao Is. of the Philippine Is.
		L	7 27 04.3						
		F	8 16 -						
120	" 16	e	22 44 52.9						ψ = 121.0E, λ = 21.8N. SE. sea off Garanbi.
		F	22 55 21-						

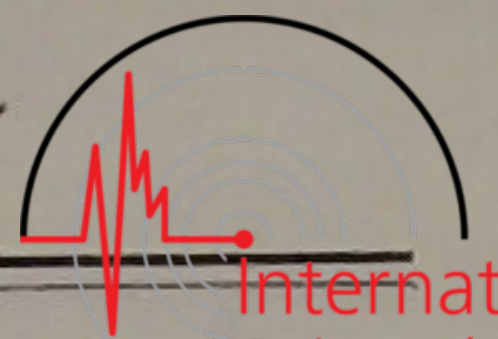
No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
			h m s	μ	μ	μ	s	km.	
121	April 18	e	10 54 35.5						A distant shock. Sea off Titizima.
		F	11 04 —						
122	" 18	e	13 09 24.3						Sea off Nozima cape.
		F	13 12 20—						
123	" 18	eP	20 01 17.5					229	NE sea off Idu Osima.
		S	20 01 48.3						
		F	20 06 10—						
124	" 19	eP	11 38 15.2					255	SSE. sea off Idu Osima.
		S	11 38 49.6						
		MN	11 38 53.2		-25		1.9		
		ME	11 39 03.3	-16			1.5		
		F	11 47 30—						
125	" 19	e	16 54 49.4						A distant shock. Near the Philippine Is.
		F	16 58 28—						
126	" 20	iP(z)	1 15 00.5			+30		650	ψ=139.5E, λ=30.0N. S. sea off about 350km. from Hatijyo Is. Deep focus origin about 350km. under from the surface.
		iP	1 15 00.6	-16	+43				
		S(z)	1 16 08.5						
		iS	1 16 10.2						
		MN ₁	1 16 12.1		+117		2.5		
		ME ₁	1 16 14.2	-188			3.6		
		Mz	1 16 21.9			-18	2.4		
		MF ₂	1 16 39.3	-113			2.4		
		MN ₂	1 17 36.1		+123		2.9		
		F	1 36 25—						
127	" 24	e	1 29 46.5						A local shock. Near Gihu city. Feeble tremors.
		F	1 31 31—						
128	" 25	P	14 07 03.3					1630	S. sea off Ogasawara Is.
		S	14 09 52.7						
		F	14 18 21—						
129	" 26	eP	22 56 45.3					560	Near Koti (Sikoku district.)
		eS	22 57 47.0						
		F	23 04 —						
130	" 27	P	7 48 13.6					217	S. sea off Nozimizaki.
		S	7 48 42.8						
		Mz	7 48 59.2			-10	1.4		
		ME	7 48 59.9	+36			1.3		
		MN	7 49 03.3		+39		1.5		
		F	8 00 21—						



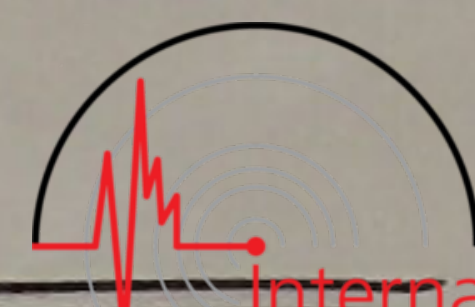
No.	Date	Phase	Time 135° E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
			h m s	μ	μ	μ	s	km.	
131	April 27	eP	15 12 29.5					1040	ψ=142.7E, λ=41.4N. SSW. sea off Erimo cape.
		S	15 14 21.2						
		F	15 20 18-						
132	" 27	eP	18 18 23.6					870	SE. sea off Miyako.
		S	18 19 58.6						
		MN	18 20 19.1		±15		3.0		
		ME	18 20 22.2	+20			2.8		
		F	18 29 03-						
133	" 28	P	3 13 45.8					60	Lower course of the river Tenryu Slight shock was felt Nutazawa in Aiti pref.
		S	3 13 53.7						
		MN	3 13 53.9		-14				
		F	3 16 07-						
134	" 28	P	20 26 26.1					44	N. part of Mie pref. A local shock.
		S	20 26 32.0						
		F	20 27 50-						
135	" 29	eP	6 15 45.5					1510	A distant shock? Epicentre unknown.
		S	6 18 23.7						
		F	6 24 25--						
136	" 29	eP	8 27 48.4					830	E. sea off Miyako.
		S	8 29 18.3						
		MN	8 30 13.5						
		F	8 38 10-						
137	May 1	e	0 22 41.4						S. sea off Ogasawara Is.
		F	0 30 13-						
138	" 1	e	16 13 23.9						Near Parau in the South ocean.
		F	16 27 54-						
139	" 2	eP	1 41 25.6					380	N. part of Kujuukuri hama.
		eS	1 42 16.9						
		F	1 44 57-						
140	" 3	eP	3 55 49.7					640	In the Sizukawa Bay Miyagi pref.
		S	3 56 59.9						
		F	4 00 27-						
141	" 3	eP	4 47 54.0					232	Near Itinomiya in Tiba pref.
		eS	4 48 25.3						
		F	4 50 -						



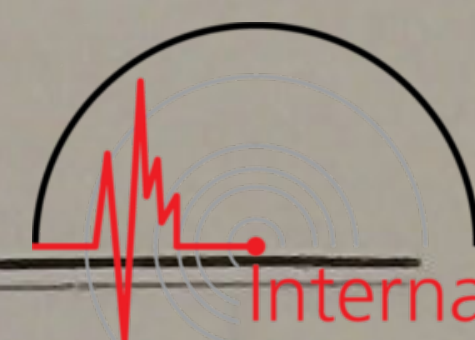
No.	Date	Phase	Time 135° E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE μ	AN μ	Az μ			
142	May 3	P	10 33 21.1					NNW. sea off Titisima.	
		eS?	10 35 12.6						
		L	10 41 41.0						
		F	11 02 —						
143	" 4	P	13 45 22.5				A distant earthquake. Alaska district.		
		L	13 52 50.8						
		F	14 23 —						
144	" 4	eP	18 23 11.6				230 Near Aioi.		
		S	18 23 42.5						
		F	18 26 04—						
145	" 5	eP	2 28 40.2				25 A local shock. Near Kuwana in Mie pref.		
		S	2 28 43.6						
		F	2 30 34—						
146	" 5	e	23 51 54.6				A distant shock.		
		F	23 57 26—						
147	" 6	e	1 49 50.1				Near Parau in the South Ocean.		
		F	1 54 15—						
148	" 6	e	1 56 22.4				A distant shock. Near New-guinea.		
		F	2 02 —						
149	" 7	eP	15 36 54.1				393 In the Kasima-nada.		
		eS	15 37 47.1						
		F	15 41 —						
150	" 7	P	19 01 35.6				50 Lower course of the river Yahagi in Aiti pref.		
		S	19 01 42.4						
		F	19 03 57—						
151	" 9	P	19 08 35.8				245 ψ = 140.0E, λ = 36.0N. Near Mikkaido. Slight was felt all Kwanto.		
		S	19 09 08.7						
		F	19 14 —						
152	" 10	e	1 17 46.7				S. part of the Okhotsk sea.		
		F	1 27 03—						
153	" 12	P	3 42 51.9				99 Near Turuga city.		
		S	3 43 05.2						
		F	3 46 23—						
154	" 12	e	4 20 08.8				Near Tukikawa in Saitama pref.		
		F	4 23 —						



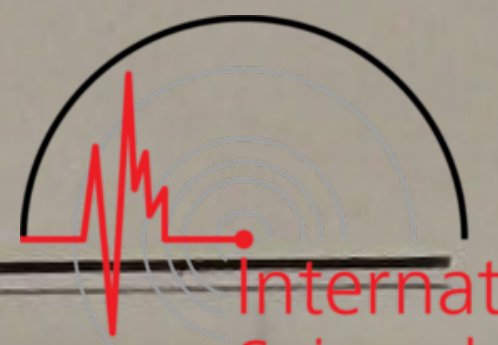
No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
			h m s	μ	μ	μ	s	km.	
155	May 12	eP	12 51 20.3					165	Near Tomisima by Awaji Is, in the Osaka Bay.
		eS	12 51 42.6						
		F	12 53 57—						
156	" 12	e	19 52 54.1						Near Titisima Is.
		F	19 58 57—						
157	" 12	e	23 31 14.3						Ditto
		F	23 33 55—						
158	" 13	e	18 10 19.3						Near Bismarck Is. in the South Ocean.
		F	18 17 44—						
159	" 14	e	1 14 55.2						In the Kasima-nada.
		F	1 19 10—						
160	" 14	e	2 07 49.2						Near Bashee channel.
		F	2 13 45—						
161	" 17	P	20 54 16.5					254	ψ = 140.0E, λ = 35.6N. NE. part of the Tokyo Bay. Slight shock was felt at almost of Kwanto and E. part of Tyubu district.
		S	20 54 50.7						
		ME	20 54 56.5	-14		1.1			
		MN	20 55 05.8		+14	—			
		F	21 02 17—						
162	" 19	eP	3 47 51.2					34	A local shock.
		S	3 47 55.8						
		F	3 48 44—						
163	" 19	e	19 46 28.8						S. sea off Ogasawara.
		F	19 56 47—						
164	" 20	P	16 03 44.4					660	ψ = 144.0E, λ = 39.2N. ESE. sea about 180km. off Miyako. Slight shock were felt from Kwanto to Hakkaido.
		S	16 04 56.4						
		ME	16 05 37.8	-11		2.0			
		MN	16 05 52.0		-10	2.1			
		F	16 11 —						
165	" 21	e	0 03 34.6						Near Mineyama in Tango province.
		F	0 05 39—						
166	" 21	P	0 31 30.8					55	Middle course of the river Kiso.
		S	0 31 38.1						
		F	0 33 44—						



No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	Δ Epicentre- distance	Remarks
				AE	AN	Az			
			h m s	μ	μ	μ	sec	km.	
167	May 21	eP	15 40 20.4					215	Near Tatebayasi in Gumma pref.
		S	15 40 49.4						
		F	15 42 53-						
168	" 26	P	1 20 54.8					780	SSE. sea off Hatijyo Is.
		S	1 21 19.8						
		ME	1 22 24.7						
		MN	1 22 26.9						
		F	1 30 18-						
169	" 28	eP	14 36 05.8					1640	SE. sea off Etrou Is.
		S	14 38 55.6						
		F	14 46 34.2						
170	" 30	e	14 38 38.8						A local shock.
		F	14 42 14-						
171	" 30	eP?	15 11 33.7					about 300	NW. sea off Hatijyo Is.
		S	15 12 15.2						
		F	15 16 39-						
172	" 30	e	16 04 24.8						Near Tanegasima in Kagoshima pref.
		F	16 06 34-						
173	" 31	P	08 04 45.5					377	ϕ=140.5E, λ=36.3N. Near city of Mito. Origin about 50km. from the ground. Slight shock was felt SE. part of Japan.
		S	08 05 23.3						
		Mz	08 05 44.1			±40	1.7		
		ME1	08 05 44.8	-191			2.3		
		MN	08 05 56.6		-217		2.2		
		ME2	08 06 18.0	+143			2.2		
		F	08 18 44-						
174	June 1	eP	10 36 20.5					420	ϕ=139.9E, λ=34.2N. ENE. sea off Miyake sima.
		S	10 37 17.1						
		MN	10 37 30.3		+49		2.7		
		ME	10 37 32.7	-25			2.0		
		F	10 48 31-						
175	" 2	P	15 01 35.0						A distant earthquake.
		L	15 07 15.2						
		F	15 14 24-						
176	" 3	e	6 03 03.6						P : uncertain. Far sea off Kinkwazan.
		F	6 05 29-						

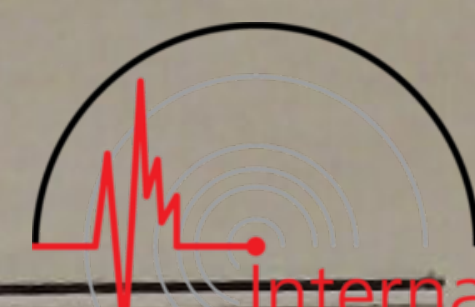


No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
			h m s	μ	μ	μ	s	km.	
177	June 3	P	6 30 29.6					1460	ψ=131.9E, λ=31.7N. At the Hyuga-nada.
		PP	6 31 27.4						
		S	6 33 02.9						
		MN	6 33 45.0		-14		2.3		
		F	6 42 21-						
178	" 3	P	11 00 05.8					280	Near Otaki in Tiba pref.
		S	11 00 43.5						
		F	11 04 43-						
179	" 3	P	16 18 03.2					376	ψ=140.5E, λ=35.9N. Near Sawara in Tiba pref. Slight shock was felt at Kwanto district.
		S	16 18 53.9						
		ME1	16 18 59.0	+68			1.9		
		MN	16 19 04.4		-70		2.0		
		ME2	16 19 17.2	+80			1.9		
180	" 3	e	21 21 07.5						Ditto.
		F	21 23 07-						
181	" 4	e	1 25 23.2						Central. Honsyu (Japan proper)
		F	1 29 29-						
182	" 4	e	11 35 45.3						Middle course of the river Kasuo.
		F	11 38 26-						
183	" 5	P	21 37 59.8					About 270	Epicentre unknown.
		S	21 38 35.7						
		F	21 42 35-						
184	" 6	e	3 30 56.9						Near Kasumigaura.
		F	3 33 52-						
185	" 6	P	3 46 14.6					340	Near Takada in Hokusima pref. Slight shock was felt Near the centre.
		S	3 47 00.4						
		MN	3 47 36.3		±13		2.6		
		ME	3 47 38.8	±11			2.5		
		F	3 53 58-						
186	" 6	eP	4 41 55.2					332?	Near Mt. Tukuba.
		eS	4 42 39.8						
		F	4 45 06-						
187	" 6	eP	6 39 00.6					371	Near Kasumigaura.
		S	6 39 50.5						
		F	6 42 04-						



No	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
			h m s	μ	μ	μ	s	km.	
188	June 6	e F	15 27 03.7 15 31 41.9						SE. sea off Otiisi cape.
189	" 7	P eS F	3 48 11.6 3 49 14.6 3 52 42-					570	NNW. sea off Hatijyo Is.
190	" 9	e F	11 31 40.4 11 36 40-						Sea off Daito in Taiwan.
191	" 9	P S L F	22 06 20.3 22 11 37.4 22 14 42.3 22 29 -					3500	A distant earthquake. Near Newguinea Is.
192	" 12	P S F	22 07 43.3 22 08 21.0 22 13 26-					280	ψ = 140.6E, λ = 36.4N. Near Mito city.
193	" 13	P S MN ME ScS F	10 53 48.8 10 56 02.6 10 56 34.4 10 56 49.6 11 06 25.6 11 17 27-	+31	+43		2.4 2.5	1260	ψ = 146.7E, λ = 43.8N. N. sea off Sikotan Is. Slight shock were felt from S. part Hokkaido to Kwanto district.
194	" 13	P S F	11 18 29.0 11 18 52.1 11 21 44-					172	Lower course off the river Arita.
195	" 13	e F	16 18 16.8 16 21 20-						A local shock. Near Nagoya city.
196	" 14	P L F	7 20 44.3 7 29 06.4 7 58 -						A distant earthquake.
197	" 15	eP eS F	4 16 46.7 4 18 52.5 4 26 22-					1180	ψ = 141.8E, λ = 42.3N. SW. sea off the mouth of the river Sunanagasi.
198	" 15	e F	12 00 01.4 12 03 42-						A distant shock.

No.	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
199	June 15	P	h m s 14 32 17.9	μ	μ	μ		284	$\psi=139.8E, \lambda=36.3N.$ Near Mamata in Totigi pref. Slight shock was felt over Kwanto d'strict.
		P	14 32 26.6						
		S	14 32 56.2						
		MN	14 33 08.2		+60		1.5		
		Mz	14 33 10.9			-20	1.3		
		ME	14 33 12.9	-52			1.4		
		F	14 41 54-						
200	" 16	e	6 35 15.5						W. sea off Amami Osima.
		F	6 43 40-						
201	" 16	eP	10 26 37.5					37	A local shock. Near Nagoya city.
		S	10 26 42.5						
		F	10 27 32-						
202	" 18	eP	15 33 39.1					400	Sea off Hatijyo Is.
		S	15 34 32.9						
		F	15 38 45-						
203	" 18	eP	16 07 17.5					640	Ditto.
		eS	16 08 27.2						
		F	16 13 45-						
204	" 18	e	18 07 31.5						Feeble Tremorse. This wave is a longitudinal wave of No. 205.?
		F	18 11 41-						
205	" 18	S?	18 22 46.1						A distant shocks.
		F	18 35 24-						
206	" 19	e	12 54 13.4						Ditto.
		F	13 00 39-						
207	" 19	e	19 20 03.8						SE. sea off Hatijyo Is.
		F	19 26 26-						
208	" 20	iP	0 48 35.5	-1	-1	+2		650	S. sea off Hatijyo Is. (deep focus)
		S	0 49 46.1						
		ME	0 49 47.6	+138			3.2		
		MN	0 49 48.3		-155		3.2		
		Mz	0 49 56.1			± 16	1.8		
		F	0 59 25-						
209	" 21	P	8 59 55.1					227	Near Simozuma, in Ibaragi pref.
		S	9 00 25.6						
		F	9 02 45-						



No	Date	Phase	Time 135°E M. C. T	Amplitude			Period	△ Epicentre- distance	Remarks
				AE	AN	Az			
			h m s	μ	μ	μ	s	km.	
210	June 21	eP	23 19 53.4					24	A local shock. Near Nagoya city.
		S	23 19 56.6						
		F	23 20 54-						
211	" 22	eP	8 51 40.0					158	In the Kii channel.
		eS	8 52 01.2						
		F	8 54 11-						
212	" 24	e	11 28 41.4						In the Kasima-nada.
		F	11 31 19-						
213	" 24	eP	15 19 24.0						A distant shock.
		S?	15 20 44.0						
		F	15 34 38-						
214	" 27	P	5 35 27.3					364	In the Bungo strait.
		S	5 36 16.3						
		F	5 39 46-						
215	" 27	eP	5 40 10.6					330	ψ = 141.3E, λ = 36.4N. In the Kasima-nada. Slight shock was felt NE. part of Kwanto.
		eS	5 40 54.8						
		Mz	5 41 05.6			-7	2.8		
		ME	5 41 17.1	-46			3.3		
		MN	5 41 26.7		±37		3.0		
		F	5 51 45-						
216	" 29	iP	17 32 28.8	-4	-7			3860	A distant earthquake. In the sea near Newguinea.
		iS	17 38 08.2						
		ME	17 38 15.7	+87			3.9		
		MN	17 38 16.2		+89		4.0		
		F	17 58 -						
217	" 29	iP	19 29 59.7	-2	+2	+6		21	A local shock. Near Koromo in Aiti pref. Slight shock was fel at Koromo Anjyo and Toyoaki.
		S	19 30 02.5						
		Mz	19 29 59.8			-11			
		ME	19 30 02.6	+23					
		MN	19 30 02.6		+22				
		F	19 32 37-						
218	" 29	P	21 41 46.1					3080	A distant earthquake. Sea off Newguinea.
		S	21 47 35.3						
		F	21 58 18-						

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英比貞造

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OF THE

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NAGOYA JAPAN

VOL. V. NO. 2,

FROM JULY TO DECEMBER.

1934

NAGOYA

March 1935

CONSTANTS

Latitude and longitude of the center of the Seismographic room

$$\lambda = 35^{\circ}10' \text{ N}$$

$$\varphi = 136^{\circ}58' \text{ E from Greenwich}$$

Altitude, 51.7^{m} above mean sea level.

Lithologic foundation, Schottered clay (Tertiary)

Time. 135°E mean civil time.

Constants of the Seismographs

Apparatus	Compo- nent	T°	ξ	$\frac{r}{T^2}$	V		
Wiechert 200kg	I {	N	5.3	9	0.02	93	
		E	5.3	9	0.02	94	
	II {	N	5.1	8	0.02	94	
		E	5.2	10	0.02	92	
	III {	N	5.0	8	0.02	93	
		E	5.0	9	0.02	92	
	" 80kg	IV {	N	5.0	8	0.02	92
			E	5.1	8	0.02	91
Z		3.6	7	0.02	84		
Omori	}	N	20.0	4	0.04	20	
		E	20.0	3	0.02	20	

Note. I, July. 1 to Sept. 10
 II, Sept. 11 to Oct. 22
 III, Oct. 23 to Dec. 10
 IV, Dec. 11 to Dec. 31

Symbols and Notations

I. Phases of the Seismogram.

P = First preliminary tremors (Longitudinal)

\bar{P} = Individual or upperfirst preliminary tremors

S = Second preliminary tremors (Transverse)

L = Long waves at the beginning of the surface phase

M = Greatest motion in the surface phase.

F = End of discernible movements.

II. Nature of the motion.

i = Sudden beginning of the motion.

e = Gradual beginning of the motion.

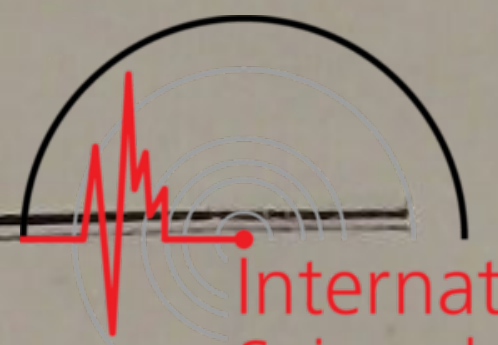
III. Remarkes.

Covered = Covered by following shock.

Is. = Island. Pref. = Prefecture.



No.	Date.	Phas.	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
219	July 1	e F	2 09 17.6 2 15 30—						Sea off Hatijyo Is.
220	" 2	P S F	8 31 48.9 8 32 32.1 8 35 35—					320	N. part of the Kasima-nada.
221	" 2	e F	11 01 24.5 11 04 30—						SE. sea off Inubo cape. Faint record.
222	" 3	iP S MN ME MZ F	6 28 33.3 6 28 38.7 6 28 38.8 6 28 38.9 6 28 40.8 6 32 39—		-1	+1	-2	40	Near Takegahana in Gihu pref.
223	" 3	S? F	12 50 41.9 12 57 23—						Near Isigaki Is. P. phase uncertain.
224	" 7	P S F	3 41 07.4 3 42 39.0 3 51 25—					850	ψ = 143.0E, λ = 40.4N. E. sea off mouth of the river Mabuti.
225	" 8	e F	8 32 10.8 8 37 32—						Near Hunabasi in Tiba pref.
226	" 8	P S MN ME F	15 43 47.6 15 44 10.3 15 44 15.2 15 44 16.3 15 51 36—	1.1 1.1		+11	-12	168	In the Wakanoura bay. Slight shock was felt near the centre.
227	" 8	P S F	23 09 34.0 23 11 57.9 23 20 40—					1360	ψ = 142.8E, λ = 41.9N. Near Erimo cape.
228	" 9	e F	10 20 10.7 10 24 25—						Near Hiradate strait in Aomori pref.
229	" 10	P S F	21 20 41.0 21 21 30.2 21 25 16—					365	Sea off Hatijyo Is.



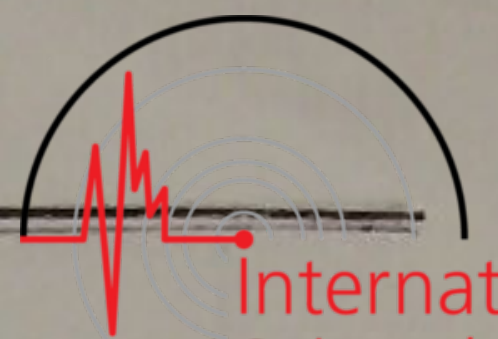
No.	Date	Phase	Time 135° E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
230	July 10	P	22 49 38.1					32	Near Gihu city.
		S	22 49 42.4						
		F	22 51 13—						
231	" 10	eP	23 23 58.8					26	A local shock. Near Nagoya city.
		S	23 24 02.3						
		F	23 25 10—						
232	" 11	e	4 19 00.6						Feeble tremors. Near Gihu city.
		F	4 19 47—						
233	" 11	eP	4 39 40.7					219	E. sea off Sioya cape.
		eS	4 40 10.2						
		F	4 42 24—						
234	" 11	e	13 04 08.9						Mt. Asama.
		F	13 06 38—						
235	" 11	P	22 25 14.2					85	A local shock?
		S	22 25 25.6						
		F	22 27 37—						
236	" 12	eP	4 21 00.7					90	Ditto.
		S	4 21 12.8						
		F	4 22 16—						
237	" 12	e	4 44 46.8						Ditto. Faint record.
		F	4 46 02—						
238	" 12	eP	10 10 52.9						Near Iwai in Ibaragi pref.
		S	10 11 25.2						
		F	10 14 37—						
239	" 12	P	18 53 23.6					660	ψ = 143.9E, λ = 38.6N. E. sea off Kinkwazan. Slight shock were felt S. part of Hokkaido, E. part of Tohoku and NE. part of Kwanto districts.
		S	18 54 35.6						
		Mz	18 54 58.9	2.4			-11		
		ME	18 55 00.6	2.6	±59				
		MN ₁	18 55 03.8	2.6		+75			
		MN ₂	18 55 24.0	2.7		±43			
240	" 13	eP	6 16 55.3					680	ESE. sea off Kinkwazan.
		eS	6 18 10.0						
		F	6 21 36—						



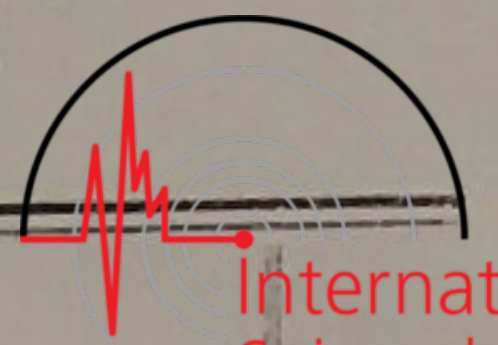
No.	Date	Phase	Time 135° E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
			h m s	"	μ	μ	μ	km.	
241	July 13	P	19 17 15.9					319	Near Kaminawa in Kanagawa pref.
		S	19 17 58.8						
		F	19 20 08—						
242	" 14	eP	19 37 09.2					93	In the Wakanoura bay.
		S	19 37 21.7						
		F	19 38 40—						
243	" 15	S?	12 16 28.1						Central Japan sea?
		F	12 19 10—						
244	" 16	eP	5 07 35.6					154	Near Mizonokuti in Kanagawa pref.
		S	5 07 56.4						
		F	5 10 08—						
245	" 16	eP	11 52 27.4					376	SW. sea off Hatijyo Is.
		eS	11 53 18.1						
		F	11 56 02—						
246	" 17	e	2 58 01.5						Near Nagano city.
		F	3 00 16—						
247	" 18	P	5 43 39.0					148	Near Numadu city.
		eS	5 43 59.0						
		F	5 47 10—						
248	" 18	eP	10 55 30.6						A distant earthquake. P. and L. uncertain.
		eL	11 07 09.2						
		F	12 19 09—						
249	" 19	P	4 49 52.5					5860	A distant earthquake.
		PP?	4 50 45.7						
		S	4 57 20.2						
		L	5 03 15.7						
		MN	5 07 49.5	20.7		-139			
		ME	5 08 05.9	21.3	-93				
		Mz	5 08 09.7	25.6		+47			
250	" 19	e	6 39 11.7						Ditto.
		F	6 52 17—						
251	" 19	e	9 16 07.6						Ditto.
		F	9 41 —						



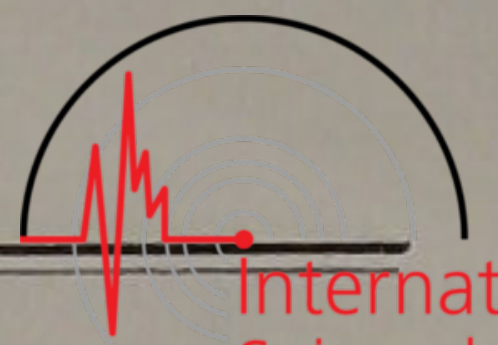
No.	Date	Phase	Time 135° E M. C. T	Period	Amplitude			△ Epicentre distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
252	July 19	P	10 34 29.1	18.1				6780	A distant earthquake.
		L	10 42 47.5						
		MN	10 48 04.6						
		F	11 15 34—						
253	" 19	P	16 46 30.2				6200	Ditto.	
		L	16 54 16.9						
		F	17 37 20—						
254	" 20	eP	11 18 05.9					Mt. Asama?	
		eS?	11 19 21.2						
		F	11 24 21—						
255	" 20	P	22 39 59.3	1.2			316	ψ = 140.6E, λ = 35.9N. Near Sawara in Tiba pref. Slight shock was felt at Kwanto district.	
		eS	22 40 41.8						
		Mz	22 41 09.2						
		F	22 45 57—						
256	" 21	e	13 42 41.0					A distant shock.	
		F	13 49 43—						
257	" 21	P	15 26 31.7	17.0				6355	Ditto
		L	15 34 44.2						
		MN	15 43 52.2						
		ME	15 44 31.5						
		F	16 27 33—						
258	" 21	P	16 32 00.0	16.6				51	Near Kanayama in Gihu pref.
		eL	16 39 55.4						
		F	17 00 35—						
		S	16 40 47.5						
		ME	16 40 47.6						
259	" 22	P	16 40 40.6					44	Near Nagoya city.
		S	16 40 47.5						
		ME	16 40 47.6						
		MN	16 40 47.6						
		F	16 43 23—						
260	" 23	eP	0 41 35.6						A distant shock.
		S	0 41 41.5						
		F	0 42 36—						
261	" 23	e	5 05 50.0						
		F	5 20 21—						



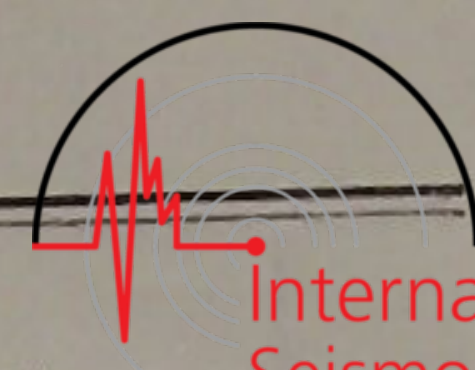
No.	Date	Phase	Time 135° E M. O. T			Period	Amplitude			△ Epicentre- distance	Remarks
							AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
262	July 24	P	19	13	18.1					217	Near Kamogawa in Tiba pref.
		S	19	13	47.4						
		F	19	17	56—						
263	" 25	eP	15	07	18.3					36	A local shock. Near Nagoya city.
		S	15	07	23.1						
		F	15	08	05—						
264	" 26	P	20	07	25.1					389	ψ = 141.3E, λ = 37.1N. Sea off Sioya cape.
		S	20	08	17.5						
		ME	20	08	35.0	1.9	+13				
		MN	20	09	00.7	2.4		±11			
		F	20	13	25—						
265	" 27	P	0	28	30.9					416	In the Kasima-nada.
		S	0	29	26.9						
		F	0	33	37—						
266	" 28	e	14	28	50.0						A distant shock.
		F	14	33	32—						
267	" 28	eP	21	14	03.1						ψ = 141.2E, λ = 38.0N. Sea off mouth of the river Abukuma. Slight shock was felt almost Tohoku and NE. part of Kwanto district.
		eS?	21	14	45.9						
		MN	21	15	29.3	2.6		-32			
		ME	21	15	44.0	2.4	+22				
		F	21	24	08—						
268	" 29	e	6	45	49.1						A distant shock. Near Alaska.
		F	6	56	15—						
269	" 30	P	15	16	48.5					37 ?	Near Kiyokawa in Wakayama pref.
		S	15	16	53.5						
		F	15	18	26—						
270	" 31	P	6	18	46.0					135	N. part of Nara pref.
		S	6	19	04.1						
		F	6	21	26—						
271	" 31	e	15	04	01.4						A distant shock. Near Luzon Is.
		F	15	08	33—						
272	Aug. 2	eP	17	07	41.4					250	Near Mt Tukuba.
		S	17	08	15.0						
		F	17	11	22—						



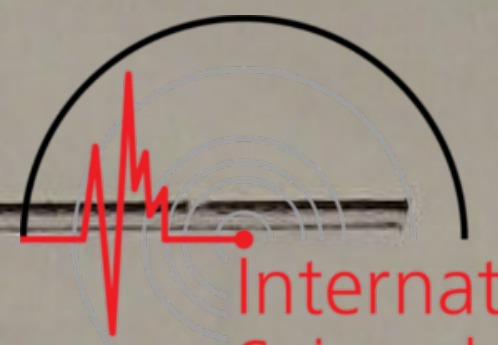
No.	Date	Phase	Time 135° E M. C. T			Period	Amplitude			△ Epicentre- distance	Remarks
							A _E	A _N	A _Z		
			h	m.	s	s	μ	μ	μ	km.	
273	Aug. 2	eP	17	33	18.0					200	Near Tiba city.
		eS	17	33	45.1						
		F	17	36	13—						
274	" 3	P	18	28	19.4					29	Near Gihu city.
		S	18	28	23.3						
		F	18	30	—						
275	" 3	P	18	37	46.6					670	ϕ = 142.1E, λ = 40.2N. E. sea about 30km. off Kuji in Iwate pref. Slight shock was felt all Tohoku and S. part of Hokkaido.
		S	18	38	59.2						
		M _E	18	39	37.3	2.5	+13				
		M _N	18	40	04.6	2.2		-15			
		F	18	50	22—						
276	" 3	iP	21	25	02.3		+3	+1	-2	326	ϕ = 140.1E, λ = 36.1N, Near Tateno in Ibaragi pref. Modelat shock was felt at the centre.
		S	21	25	46.2						
		M _{E1}	21	26	06.2	1.9	+103				
		M _{E2}	21	26	15.9	1.7	+103				
		M _N	21	26	18.0	1.8		-174			
		M _Z	21	26	26.7	1.6			-55		
		F	21	37	10—						
277	" 4	e	22	15	44.4						A distant shock.
		F	22	22	24—						
278	" 5	eP	12	59	27.5					810	ϕ = 142.0 E, λ = 40.2 N. Sea off Kuji in Iwate pref.
		eS	13	00	55.1						
		F	13	05	59—						
279	" 5	eP	17	43	59.4					395	Near Tiba city.
		eS	17	44	52.7						
		F	17	48	25—						
280	" 6	P	19	37	54.9					49	A local shock. Near Nagoya city.
		S	19	38	01.5						
		F	19	40	10—						
281	" 7	P	12	49	43.8						A distant earthquake.
		eL	12	57	25.1						
		F	13	16	—						
282	" 8	P	14	31	17.5					383	Sea off Iitijyo Is.
		S	14	32	09.2						
		F	14	35	11—						



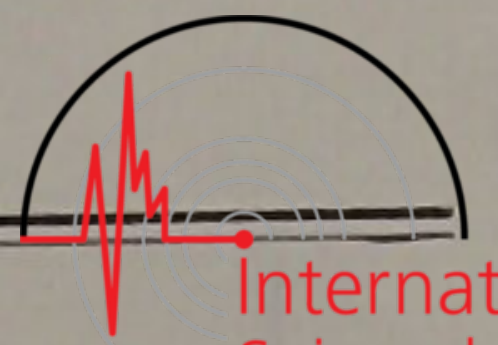
No.	Date	Phase	Time 135° E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
283	Aug. 9	P	6 51 49.0					181	Near Wakayama city.
		S	6 52 13.4						
		F	6 55 23—						
284	" 9	e	16 41 18.7						A local shock? Feeble tremors.
		F	16 43 41—						
285	" 11	P	17 22 18.3						Near Giran city, N. part of Taiwan. Strong shock was felt near the centre.
		L	17 29 47.9						
		F	17 46 25—						
286	" 12	eP?	6 17 48.1						Course of the river Arita in Wakayama pref.
		S	6 18 06.4						
		F	6 21 15—						
287	" 12	e	10 04 43.3						Near Wakayama city.
		F	10 06 06—						
288	" 12	eP	11 01 14.8					41	A local shock. Near Nagoya city.
		S	11 01 20.3						
		MN	11 01 20.5			+10			
		F	11 03 40—						
289	" 12	e	18 32 21.7						Ditto.
		F	18 34 07—						
290	" 13	P	8 55 16.0						A distant earthquake. Near Mindanao Is.
		PP?	8 56 36.8						
		S?	8 57 10.3						
		MN	8 57 26.6	3.2		+14			
		ME	9 00 07.7	3.4	+13				
		F	9 19 14—						
291	" 13	P	9 19 58.4					2260	A distant earthquake. Near Mariana Is.
		S	9 23 43.6						
		L	9 27 05.7						
		F	9 35 41—						
292	" 14	e	17 59 56.7						A distant shock.
		F	18 07 43—						



No.	Date	Phase	Time 135°E M. C T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
293	Aug. 18	P	11 38 46.1		-20.0	-21.5	+23.7	55	$\phi = 137.0E, \lambda = 35.7N$ Near Hatiman in Gihu pref D=15km. Slight shock wave felt at central Japan. Strong shock and Slight damaged at placeca in Gihu pref.
		S	11 38 53.4						
		MN ₁	11 38 56.1	2.2		-6000			
		ME ₁	11 39 00.3	2.0	+4300				
		Mz	11 39 05.5	1.2			-3000		
		MN ₂	11 39 12.6	0.8		+4650			
		MN ₃	11 39 22.1	1.0		-5300			
		ME ₂	11 39 22.6	1.7	±3050				
		F	11 53 —						
294	" 18	iP(E)	12 14 29.0		-1.6			98	Ditto. (after shock).?
		S	12 14 42.2		-5				
		ME	12 14 42.4	0.5					
		F	12 16 32-						
295	" 18	iP	12 47 06.4		+1.2	-1.1	+3.0	54	Near Hatiman in Gihu pref. (after shock) Slight shock was felt at Nagoya.
		S	12 47 13.6						
		ME	12 47 13.8	0.3	-153				
		MN	12 47 13.8	0.3		+74			
		Mz	12 47 20.5	0.2			+2.8		
		F	12 52 41-						
296	" 18	iP	14 06 38.7		-3.3	-8.0	+18.3	43	Ditto.
		S	14 06 44.5						
		MN	14 06 47.8	0.9		+118			
		Mz	14 06 50.4	—			±26		
		ME	14 06 52.4	0.8	+96				
		F	14 15 28-						
297	" 18	P	16 04 20.7				52	Ditto. (no felt)	
		S	16 04 27.7						
		F	16 06 26-						
298	" 18	P	18 17 05.1				58	Ditto.	
		eS	18 17 12.8						
		F	18 18 51-						
299	" 18	iP	19 21 38.1		-5.3	+5.4	+6.7	230	S. sea off Nagaturo.
		iS	19 22 09.2						
		Mz	19 21 39.0	1.2			-16		
		ME	19 22 11.4	3.2	+74				
		MN	19 22 17.8	2.7		+42			
		F	19 33 39-						



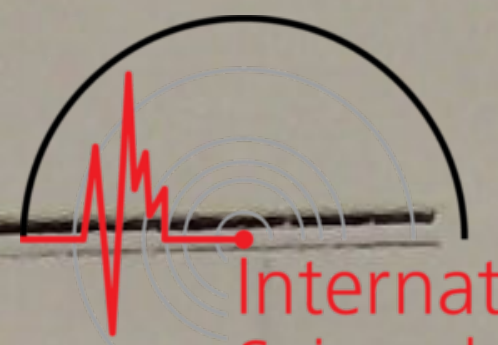
No.	Date	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
300	Aug. 19	eP	7 40 58.1					45	Near Hatuman in Gihu pref.
		S	7 41 04.2						
		F	7 41 51—						
301	" 19	eP	8 12 47.4					105	Near Hukui city.
		S	8 13 01.5						
		F	8 15 46—						
302	" 19	eP	12 53 18.3					885	Near Keramoi cape of Kunasiri Is.
		eS	12 54 54.9						
		F	13 00 05—						
303	" 20	eP	3 13 16.9					55	Near Kanayama in Gihu pref.
		S	3 13 24.3						
		F	3 14 55—						
304	" 20	eP	12 58 50.4					59	Ditto.
		S	12 58 58.4						
		F	13 00 12—						
305	" 20	P	18 35 30.1	0.9				124	Near Mineyama in Tango province.
		S	18 35 46.7						
		MN	18 35 50.6						
		F	18 38 04—						
306	" 20	eP	20 15 07.8					49	Near Kanayama in Gihu pref.
		S	20 15 14.4						
		F	20 16 37—						
307	" 20	e	23 41 57.9						Near Gihu city. Faint record.
		F	23 42 54—						
308	" 22	P	22 00 50.2						Near Yakusima Is. in Kago ima pref.
		eS?	22 01 15.2						
		F	22 03 29—						
309	" 23	eP	16 24 46.4					338	Near Koti city.
		eS	16 25 31.9						
		F	16 29 30—						
310	" 24	eP	7 35 26.8	2.6				760	E. sea off Sioya cape.
		S	7 36 50.0						
		MN	7 37 03.4						
		Mz	7 37 07.0						
		ME	7 37 25.6						
		F	7 47 33—						



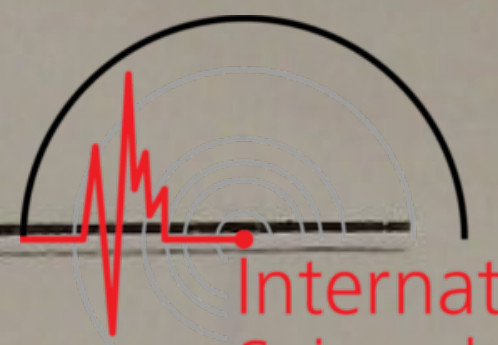
No.	Date	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
311	Aug. 24	e	8 58 29.7						A distant shock.
		F	9 01 22—						
312	" 26	e	7 29 04.4						Near Hatiman in Wakayama pref.
		F	7 30 38—						
313	" 26	e	17 22 50.8						Sea off Ogasawara Is.
		F	17 27 10—						
314	" 26	eP	18 21 03.5					860	E. sea o'f Miyako.
		eS	18 22 36.4						Slight shock was felt at Tohoku district.
		ME ₁	18 22 58.3	2.5	+21				
		Mz	18 23 15.0	1.8			-6		
		MN ₁	18 23 19.9	2.6		-22			
		ME ₂	18 23 21.8	2.6	+22				
		MN ₂	18 23 34.1	2.4		+25			
		F	18 30 21—						
315	" 26	P	20 53 18.1					265	In the Kumano-nada.
		S	20 53 53.8						
		F	20 57 49—						
316	" 27	eP	6 44 10.4					113	Sea off the mouth of the river Tenryu.
		eS	6 44 25.6						
		MN	6 44 32.3	0.7		-5			
		F	6 47 34—						
317	" 27	P	17 11 01.8					45	Near Hatiman in Gihu pref.
		S	17 11 07.9						
		MN	17 11 08.5	0.4		-12			
		ME	17 11 08.8	0.5	+12				
		F	17 13 19—						
318	" 28	e	22 34 00.7						S. sea off Ogasawara Is.
		F	22 40 —						
319	" 29	eP	5 39 41.5					51	Near Kanayama in Gihu pref.
		S	5 39 48.4						
		F	5 40 58—						
320	" 30	eP	9 36 45.8					590	In the Kasima-nada.
		eS	9 37 50.8						
		F	9 42 23—						



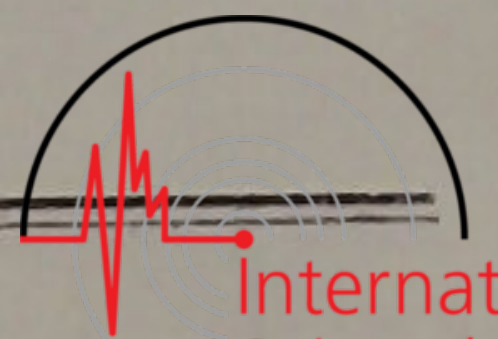
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
321	Aug. 30	eP	12 06 41.3					68	Near Iida in Nagano pref.
		S	12 06 50.5						
		F	12 07 55—						
322	" 30	eP	16 42 46.5					244	Near Mizuma in Ibaragi pref.
		S	16 43 19.3						
		F	16 45 30—						
323	" 31	e	1 29 56.0						A distant shock. Vicinity of Marianne.
		F	1 35 58—						
324	" 31	e	14 14 00.4						A distant shock.
		F	14 20 32—						
325	" 31	iP	20 39 58.4	0.3	— 8			67	Near Gero in Gihu pref.
		S	20 40 07.4						
		M _E	20 40 07.5						
		F	20 42 02—						
326	Sept. 1	e	0 06 54.0						A distant shock.
		F	0 10 26—						
327	" 1	P	8 06 51.9					660	ψ = 131.4E, λ = 33.8N. In the Suō-nada.
		S	8 08 03.8						
		F	8 12 36—						
328	" 1	e	11 46 45.5						In the Hyuga-nada. Faint record.
		F	11 50 08—						
329	" 1	P	15 57 40.3						E. sea off Motuta cape in Hokkaido. S: time approximate.
		eS?	15 59 20.0						
		F	16 03 --						
330	" 1	P	20 18 14.3	2.0				294	ψ = 140.0E, λ = 36.2N. SW. foot of Mt. Tukuba. Slight shock was felt over Kwanto district.
		P̄	20 18 26.7						
		S	20 18 54.0						
		M _{N1}	20 19 02.6						
		M _{N2}	20 19 12.7						
		M _{E1}	20 19 17.9						
		M _{N3}	20 19 20.4						
		M _{E2}	20 19 32.4						
F	20 27 45—								



No.	Date	Phase	Time 135° E M. O. T	Period	Amplitude			△ Epicentre- distance	Remarks
					A _E	A _N	A _Z		
			h m s	s	μ	μ	μ	km.	
331	Sept. 3	eP	23 14 06.3					50	A local shock. Near Nagoya city.
		S	23 14 13.0						
		F	23 15 02—						
332	" 6	e	11 22 43.6						A distant shock.
		F	11 30 39—						
333	" 8	e	0 35 52.9						A local shock. Feeble tremors.
		F	0 36 34—						
334	" 8	P	9 17 13.8					160	Middle course of the river Hidaka in Wakayama pref.
		S	9 17 35.3						
		M _Z	9 17 39.5	0.7		+7			
		M _E	9 17 40.0	0.6	-18				
		M _N	9 17 40.0	0.5		+11			
		F	9 20 51—						
335	" 9	e	2 31 55.0						Near Nagano city? Feeble tremors.
		F	2 34 48—						
336	" 11	e	17 20 46.8						A distant shock.
		F	17 28 10—						
337	" 12	P	8 34 01.5					346	S. sea off Hatijyo Is.
		S	8 34 48.1						
		F	8 39 44—						
338	" 12	e	23 24 39.1						Near Iōzima in Kagosima pref.
		F	23 28 15—						
339	" 12	eP?	23 28 19.3						Ditto.
		S	23 30 50.6						
		F	23 41 —						
340	" 12	e	23 28 52.4						Ditto. Feeble tremors.
		F	23 29 59—						
341	" 13	e	0 37 40.7						Ditto.
		F	0 44 09—						
342	" 13	P	2 44 32.5						Ditto.
		eS?	2 46 51.9						
		M _E	2 47 11.7	3.4	+11				
		M _N	2 47 13.2	3.1		+17			
		F	2 57 55—						



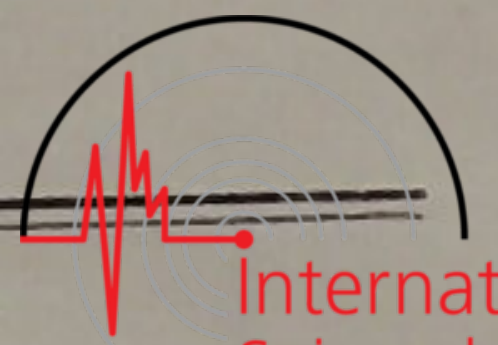
No.	Date.	Phas.	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance	Remarks
							AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
343	Sept. 13	iP	23	21	52.5		-2.2	-3.5	+10.6	55	Near Kabuti in Gihu pref. Slight shock was felt at Nagoya.
		S	23	21	59.8						
		ME ₁	23	22	00.0	0.5	-109				
		MN ₁	23	22	01.4	0.4		-66			
		M _z	23	22	06.1	0.5			+24		
		ME ₂	23	22	28.9	1.3	+54				
		MN ₂	23	22	28.9	1.3		-67			
		F	23	28	07-						
344	" 15	e	22	12	04.3					Near Titizima Is	
		F	22	16	52-						
345	" 16	P	22	17	06.5				1420	Near Sobunkei in Taiwan.	
		S	22	19	35.3						
		F	22	30	18-						
346	" 17	P	9	31	06.1				332	ψ = 140.0E, λ = 35.9N. Near Teganuma in Tiba pref. Slight shock was felt at Kwanto district.	
		S	9	31	50.7						
		ME	9	31	51.6	1.3	-33				
		MN	9	31	57.3	1.5		-28			
		M _z	9	32	10.7	1.5					-12
		F	9	39	06-						
347	" 17	eP	10	26	18.6				221	Sea off Katuura.	
		S	10	26	48.4						
		F	10	28	31-						
348	" 17	P	10	28	40.4				173	Near Mineyama. N. Tango province.	
		S	10	29	03.6						
		F	10	31	38-						
349	" 17	iP z)	11	58	40.3		-2.4		15	A local shock. Near Nagoya city. Slight shock was felt at Nagoya city.	
		S	11	58	42.3						
		ME	11	58	42.4	0.6	+15				
		F	12	00	20-						
350	" 17	eP	21	40	37.2				37	A local shock. Near Nagoya city.	
		S	21	40	42.2						
		F	21	41	37-						
351	" 19	eP	12	16	06.0				97	A local shock? P. phase uncertain.	
		S	12	16	19.0						
		F	12	17	38-						



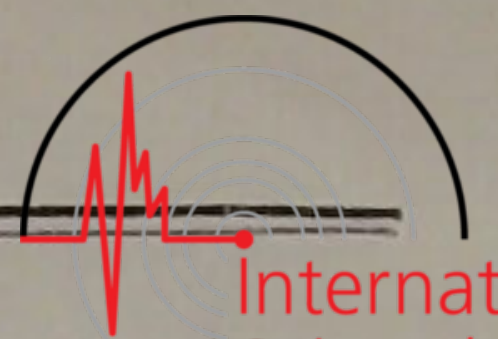
No.	Date	Phase	Time 135° E M. O T	Period	Amplitude			△ Epicentre distance km.	Remarks
					A _E	A _N	A _Z		
			h m s	s	μ	μ	μ		
352	Sept. 20	e	18 29 00.1					Near Naze Amamiosima.	
		F	18 31 01—						
353	" 21	eP	12 19 25.8				402	Sea off Hatijyo Is.	
		eS	12 20 19.9						
		F	12 22 49—						
354	" 22	eP?	20 35 52.8					Near Kumamoto city.	
		eS	20 36 40.7						
		F	20 39 34—						
355	" 24	P	6 42 36.5				790	ψ = 142.6E, λ = 39.8N. ENE. sea off Miyako.	
		S	6 44 02.4						
		F	6 51 53—						
356	" 24	iP(E)	13 54 11.9		+4.3		161	ψ = 138.8E, λ = 35.5N. Near Hukuti in Yamanashi pref.	
		S	13 54 33.6						
		ME	13 54 37.1	0.8	+104				
		MN	13 54 41.9	1.1		+121			
		Mz	13 54 42.5	0.8					-36
		F	14 02 39—						
357	" 25	P	2 16 09.4				191	Near Hinomisaki in Wakayama pref.	
		S	2 16 35.1						
		F	2 20 45—						
358	" 25	eP	10 54 52.6				165	In the Kii strait.	
		S	10 55 14.8						
		F	10 57 09—						
359	" 26	e	4 22 21.9					A distant shock.	
		F	4 28 59—						
360	" 27	e	9 58 36.0					Near Naze Amamiosima.?	
		F	10 00 34—						
361	" 29	P	9 26 03.7				118	Near Azumi in Nagano pref.	
		S	9 26 19.6						
		F	9 27 41—						
362	" 29	eP	16 21 00.4				409	Sea off the Inubo cape.	
		S	16 21 55.5						
		F	16 25 51—						



No.	Date.	Phas.	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
363	Oct. 3	eP	6 05 01.9					265	N. part of Kujyukuri-hama.
		P	6 05 11.1						
		S	6 05 37.6						
		ME	6 06 08.9	1.8	-35				
		Mz	6 06 09.6	1.8		+12			
		MN	6 06 23.2	2.5		+45			
		F	6 13 49-						
364	" 3	P	7 00 33.8				383	NE. sea off Hatijyo Is.	
		S	7 01 25.5						
		F	7 04 10-						
365	" 3	P	15 27 21.7				339	Near Inubo cape.	
		S	15 28 07.4						
		F	15 30 49-						
366	" 4	e	7 59 25.5					In the Kii strait.	
		F	8 00 53-						
367	" 6	P	1 06 12.7				183	Near Amino in Kyoto pref.	
		S	1 06 37.4						
		F	1 08 44-						
368	" 6	eP	5 27 58.6				1190	ϕ = 143.4E, λ = 41.6N. S. sea off Erimo cape. Slight was felt. S. part of Hokkaido.	
		S	5 30 05.9						
		ME1	5 30 21.6	3.4	-33				
		MN1	5 30 39.4	3.7		+47			
		Mz	5 30 50.5	2.3		-12			
		MN2	5 31 31.1	3.1		+55			
		ME2	5 31 33.3	2.8	+35				
		F	5 41 35-						
369	" 6	eP	10 47 04.8				900	E. sea off Erimo cape.	
		eS	10 48 42.5						
		F	10 54 38-						
370	" 6	eP	12 05 04.6				930	Sea off Erimo cape.	
		eS	12 06 45.9						
		ME	12 07 17.6	2.1	+10				
		MN	12 07 34.8	2.1		-10			
		F	12 14 16-						



No.	Date	Phase	Time 135° E M. C. T.	Period	Amplitude			△ Epicentre distance	Remarks
					ΔE	ΔN	ΔZ		
			h m s	s	μ	μ	μ	km.	
371	Oct. 6	P	12 33 06.6				+1.3	73	Near Hamamatu city.
		S	12 33 16.4						
		MZ	12 33 16.7	0.6			-4		
		MN	12 33 16.8	0.9		±11			
		ME	12 33 17.0	0.7	+14				
		F	12 35 51—						
372	" 7	e	12 02 16.7					52	SE. part of Tokushima pref.
		F	12 03 13—						
373	" 7	P	21 12 17.6					52	Near Hatiman in Gilu pref.
		S	21 12 24.6						
		ME	21 12 24.8	0.4	+7				
		F	21 13 34—						
374	" 8	eP	0 03 12.9					180	Valley of the river Dosi in Yamanasi pref.
		eS	0 03 37.2						
		F	0 04 49—						
375	" 8	e	0 34 15.7						Sea off Kinkwazan. Feeble tremors.
		F	0 36 29—						
376	" 11	P	0 52 37.1						A distant earthquake. Near Fiji Is.
		PP(s)?	0 55 26.5						
		MZ	0 55 29.1	4.3			+8		
		L	1 01 10.5						
		ME	1 01 17.8	4.9	+47				
		MN	1 01 18.0	4.5		-26			
377	" 11	e	1 20 23.6						Epicentre unknown. Feeble tremors.
		F	1 24 43—						
378	" 14	eP	9 11 00.0						Ditto.
		S	9 11 34.7						
		F	9 14 06—						
379	" 15	e	13 47 08.2						A local shock?
		F	13 48 42—						
380	" 18	eP	0 30 01.2					1060	ϕ = 142.4E, λ = 40.1N. NE. sea off Miyako.
		eS	0 31 55.6						
		ME	0 32 14.9	2.4	+7				
		MN	0 32 24.2	2.6		-11			
		F	0 38 34—						



No.	Date.	Phase	Time 135°E M O T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
381	Oct. 18	e F	13 58 20.4 14 03 37--		μ	μ	μ	km.	Near Akune in Kagosima pref.
382	" 18	e F	14 06 23.7 14 11 37 -						A distant shock. Epicenter unknown.
383	" 18	e F	14 38 05.7 14 40 46--						Mt. Ari in Taiwan.
384	" 18	eP? eS F	16 56 19.2 16 57 45.6 17 02 32--						A distant shock.
385	" 18	e F	17 03 25.6 17 09 29--						Ditto.
386	" 22	P eS? F	2 57 47.7 2 58 49.8 3 06 56--						S. sea off Titizima.
387	" 22	P S Mz ME MN F	3 33 45.9 3 34 32.2 3 35 01.7 3 35 13.6 3 35 23.4 3 40 58--					343	$\psi = 141.3E, \lambda = 36.8N.$ ESE. sea off Sioya cape. Slight shock was felt at Tohoku district.
388	" 22	eP S F	12 09 18.6 12 10 04.1 12 13 01--					388	Lower course of the river Same in Hukusima pref.
389	" 23	e F	16 48 33.1 16 50 45--						Near Mt. Aso. Feeble tremors.
390	" 24	e F	5 35 38.5 5 36 48--						Feeble tremors. In the Kii strait.
391	" 24	P S ME MN F	7 25 32.1 7 26 50.9 7 27 39.6 7 27 48.9 7 34 53--					720	$\psi = 142.5E, \lambda = 41.0N.$ ESE. sea off Siriya cape.

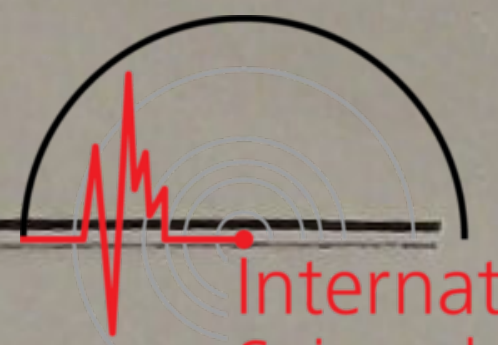
No.	Date	Phase	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance	Remarks
							AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
392	Oct. 26	eP	7	26	24.1					157	Central part of Honsyu.
		S	7	26	45.2						
		ME	7	26	47.2	3.0	±17				
		MN	7	26	50.3	2.8		-7			
		F	7	30	—						
393	" 26	e	7	30	21.4						Sea off Hatijyo Is.
		F	7	32	51—						
394	" 26	P	23	51	39.6						A distant shock.
	L	23	57	25.1							
	" 27	F	0	05	29—						
395	" 27	P	2	13	00.8					810	ψ = 132.0E, λ = 30.5N. E. sea off Tanegasima. Slight shock was felt W. part of Japan.
		P̄	2	13	03.9						
		S	2	14	28.5						
		ME	2	14	30.7	2.6	-76				
		Mz	2	14	32.2	1.8			-27		
		MN	2	14	49.7	2.7		-70			
		F	2	38	35—						
396	" 27	e	4	30	42.5						A local shock? Feeble tremors.
		F	4	31	50—						
397	" 27	P	5	52	54.7					540	E. sea off Tanegasima.
		eS	5	53	58.2						
		F	5	57	02—						
398	" 29	e	8	39	59.9						A distant shock. Epicenter unknown.
		F	8	44	34—						
399	" 30	e	1	26	40.8						Near Hukusima city.
		F	1	28	49—						
400	" 30	eP	2	24	37.0					680	ψ = 140.3E, λ = 41.3N. W. part of the Tugaru strait. (deep focus)
		S	2	25	52.4						
		MN	2	26	17.4	2.4		-11			
		ME	2	26	27.3	2.7	±11				
		F	2	33	—						
401	" 31	e	5	58	52.5						Near Takao.
		F	6	02	37—						



No.	Date.	Phase	Time 135°E M O. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
402	Oct. 31	e	15 38 42.6						A local shock?
		F	15 39 54—						
403	Nov. 1	eP	9 18 13.4					640	SE. sea off Hatijyo Is.
		eS	9 19 23.5						
		F	9 25 39—						
404	" 3	e	0 53 33.0						Middle course of the river Sagami.
		F	0 54 41—						
405	" 4	P	0 05 47.7					178	Lower course of the river Arita.
		S	0 06 11.7						
		ME	0 06 14.5	0.8	-8				
		F	0 09 58—						
406	" 4	e	11 04 37.6						A distant shock.
		F	11 10 47—						
407	" 4	e	12 25 24.5						Ditto.
		F	12 30 46—						
408	" 4	eP	15 20 33.7					1020	ψ = 142.0E, λ = 41.2N. SE. sea off Siriya cape.
		eS	15 22 23.6						
		F	15 28 26—						
409	" 4	P	19 38 40.7					277	Near Maoka in Totigi pref.
		S	19 39 18.0						
		F	19 42 18—						
410	" 5	e	22 30 43.4						Near Mt. Asama.
		F	22 32 54—						
411	" 6	eP	8 09 40.5						A distant earthquake. Near Aleutian Islands.
		S?	8 11 —						
		F	8 15 44—						
412	" 6	P	17 11 43.3					428	ψ = 141.7E, λ = 37.0N. E. sea off Sioya cape.
		S	17 12 41.0						
		ME	17 12 59.3	2.0	-12				
		MN	17 13 07.4	2.0		+13			
		F	17 16 43—						



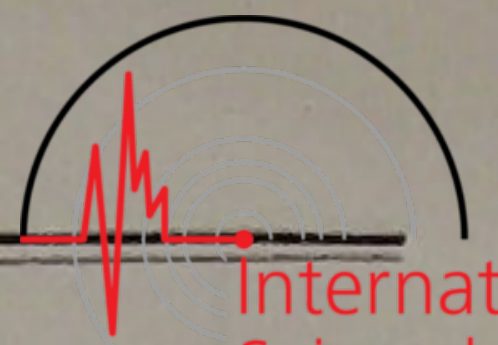
No.	Date	Phase	Time 135°E M. C. T			Period	Amplitude			△ Epicentre distance	Remarks
							AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
413	Nov. 7	P	20	31	15.1					416	ψ=141.6E, λ=37.1N. ENE. sea off Sioya cape Slight shock was felt at S. part of Tohoku district.
		S	20	32	11.1						
		Mz	20	32	19.2	1.9			-18		
		ME ₁	20	32	22.1	2.6	-38				
		MN	20	32	27.8	2.1		-39			
		ME ₂	20	32	29.7	2.0	+43				
		F	20	39	35-						
414	" 8	P	9	30	21.9					210	Sea off Nadati in Niigata pref.
		S	9	30	50.1						
		F	9	34	44-						
415	" 8	P	10	06	05.0					207	Ditto.
		S	10	06	32.9						
		MN	10	06	40.8	1.5		-12			
		ME	10	07	16.9	2.1	+14				
		F	10	09	22-						
416	" 8	iP	12	26	24.2		+7.2	+8.6	-1.2	212	Ditto. Modelat shock was felt near the centre and Slight shock was felt at coast of the Japan sea.
		S	12	26	52.7						
		ME ₁	12	27	12.0	2.6	+140				
		MN ₁	12	27	12.0	3.2		-141			
		Mz	12	27	15.2	1.6			-36		
		ME ₂	12	27	30.7	2.0	-141				
		ME ₃	12	27	41.7	2.5	+180				
		MN ₂	12	27	22.1	2.5		-153			
		F	12	37	46-						
417	" 8	P	13	44	07.9					245	Ditto.
		S	13	44	40.8						
		F	13	47	41-						
418	" 9	P	22	53	19.5					187	Near Hunadu.
		eS	22	53	44.6						
		F	22	55	51-						
419	" 10	eP	20	24	55.5					425	Near Huma in Tiba pref.
		eS	20	25	52.8						
		F	20	29	11-						
420	" 11	P	9	20	26.1					63	SE. part of Gihu pref.
		S	9	20	34.6						
		MN	9	20	35.1	0.3		±15			
		ME	9	20	35.3		+12				
		Mz	9	20	39.0				+8		
		F	9	22	36-						



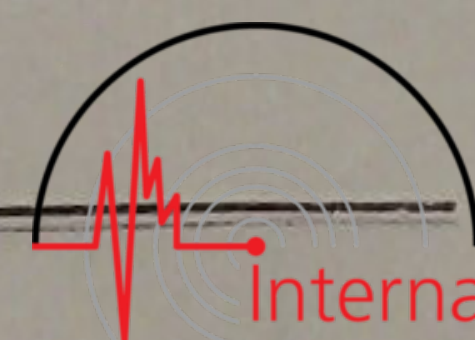
No.	Date	Phase	Time 135°E M. O. T	Period	Amplitude			△ Epicentre- distance	Remarks			
					AE	AN	AZ					
421	Nov. 11	eP	h m s 12 08 48.3		μ	μ	μ	339	SW. foot of Mt Tukuba.			
		eS	12 09 34.0									
		F	12 11 53—									
422	" 11	P	16 05 50.9					68	Near Nagoya city.			
		S	16 06 00.0									
		F	16 07 27—									
423	" 12	P	19 37 40.7					68	Near lake of Hamana.			
		S	19 37 49.9									
		F	19 39 10—									
424	" 12	P	23 46 30.6					85	Ditto.			
		S	23 46 42.0									
		F	23 48 10—									
425	" 14	P	12 43 43.5					40	A local shock. Near Nagoya city.			
		S	12 43 48.9									
		MN	12 43 49.0							0.2	-18	+10
		Mz	12 43 49.1							0.2		
		ME	12 43 49.6							0.2	-21	
		F	12 45 20—									
426	" 16	e	22 50 41.3						A distant shock.			
		F	23 06 54—									
427	" 17	eP?	22 46 55.1						Near Onahama in Hukusima pref.			
		S	22 47 34.4									
		F	22 50 39—									
428	" 18	eP	7 27 01.6					44	Near Nagoya city.			
		S	7 27 07.5									
		F	7 29 16—									
429	" 18	e	12 30 23.1						A distant shock.			
		F	12 42 51—									
430	" 18	P	18 24 00.9	2.1					Ditto.			
		MN	18 24 47.9							+12		
		F	18 32 24—									
431	" 18	P	21 18 14.2					274	Near Mikkaido in Ibaragi pref.			
		S	21 18 51.1									
		F	21 21 17—									



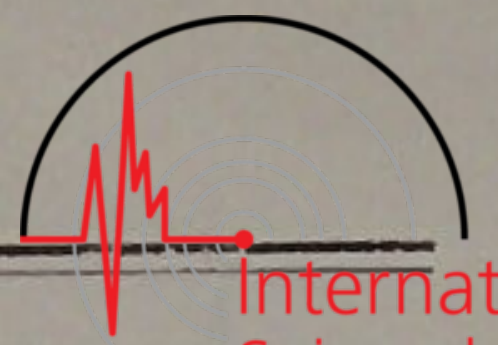
No.	Date	Phase	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance km.	Remarks
							AE	AN	Az		
			h	m	s	s	μ	μ	μ		
432	Nov. 19	e	7	48	06.6						A distant shock.
		F	7	56	17—						
433	" 20	eP	9	08	52.9				264		In the Kasima-nada.
		eS	9	09	28.4						
		F	9	12	52—						
434	" 23	P	4	19	07.2				84		Near Turuga city.
		S	4	19	18.5						
		F	4	21	27—						
435	" 23	e	6	30	35.4						Sea off mouth of the river Naka in Ibaragi pref.
		F	6	32	52—						
436	" 24	eP	7	57	28.2				700		SSE. sea off Hatijyo-Is.
		S	7	58	45.2						
		F	8	04	18—						
437	" 24	P	17	22	18.1				80		Near Katada in Siga pref.
		S	17	22	28.9						
		ME	17	22	30.3	—	-7				
		MN	17	22	30.6	0.2		+9			
		F	17	25	36—						
438	" 26	P	12	39	15.7				215		Near Matuyama in Saitama pref.
		S	12	39	44.6						
		ME	12	39	53.0	0.9	-9				
		MN	12	39	53.2	1.1		+11			
		MZ	12	39	53.5	1.1					
		F	12	43	46—						
439	" 26	e	19	28	17.0						Sea off Sioya cape.
		F	19	29	47—						
440	" 27	e	10	19	48.6						A local shock?
		F	10	24	33—						
441	" 29	eP	10	34	22.9				154		Near Miura peninsula.
		eS	10	34	43.7						
		F	10	36	46—						



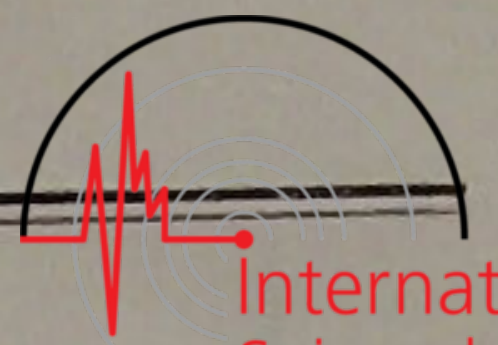
No.	Date	Phase	Time 135°E M. O. T			Period	Amplitude			△ Epicentre- distance	Remarks
							AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
442	Nov. 27	P	14	50	44.9					545	ψ = 140.8E, λ = 35.6N. In the Kujyukuri-hama. Slight shock was felt over Kwanto district
		P	14	50	54.5						
		S	14	51	45.5						
		Mz	14	51	49.9	1.8			+24		
		ME	14	51	50.8	2.3	-90				
		MN ₁	14	51	54.4	2.4		+70			
		MN ₂	14	52	11.3	1.9		±80			
		F	15	03	32-						
443	" 27	iP	15	20	55.2		-2.2	-10.6	-8.6	3605	A distant earthquake. Near Philippine Islands.
		S	15	26	19.2						
		ME	15	26	22.0	3.3	+33				
		MN	15	26	26.5	3.1		-38			
		F	15	42	50-						
444	" 28	P	0	57	20.1					253	ψ = 140.0E, λ = 36.2N. Near Simozuma in Ibaragi pref. Modest shock was felt near the centre.
		S	0	57	54.2						
		Mz	0	58	14.5	1.2			-17		
		MN	0	58	15.8	1.5		+52			
		ME	0	58	17.0	1.6	+34				
		F	1	03	49-						
445	" 28	e	22	03	22.8						In the Tugaru strait.
		F	22	07	56-						
446	" 28	P	23	24	04.2					52	Near Kanayama in Gihu pref.
		S	23	24	11.2						
		MN	23	24	11.3	0.2		+22			
		ME	23	24	11.5	0.2	-33				
		Mz	23	24	14.5	-			+11		
		F	23	26	11-						
447	" 29	P	3	33	35.3					433	S. part of the Kasima-nada.
		S	3	34	33.7						
		MN	3	34	46.6	1.2		+13			
		ME	3	34	53.1	1.2	-13				
		F	3	40	41-						
448	" 29	P	21	55	59.4					324	ψ = 140.7E, λ = 33.7N. NE. sea off Hatijyo Is.
		S	21	56	43.0						
		Mz	21	57	07.5	1.8			±4		
		MN	21	57	32.3	2.4		+33			
		ME	21	57	39.3	2.1	+17				
		F	22	05	48-						



No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
449	Nov. 30	e	7 56 02.0						SW. sea off Idu Is.
		F	7 59 38—						
450	" 30	e	8 59 53.2						Central part of Honsyu.
		F	9 04 23—						
451	Dec. 1	P	22 32 28.6					368	ϕ = 141.0E, λ = 36.7N. N. part of the Kasima-nada. Slight shock was felt Kwanto and Tohoku district.
		S	22 33 18.1						
		ME	22 33 24.6	2.1	±11				
		MN	22 33 24.9	2.0		-11			
		Mz	22 33 50.9	1.4			± 4		
		F	22 38 27—						
452	" 5	e	2 44 25.9						Epicentre unknown.
		F	2 47 50—						
453	" 7	iP, z)	10 07 03.2					66	NE. part in lake of Biwa. Slight shock was felt at Nagoya.
		S	10 07 12.1						
		Mz	10 07 12.5	0.5			+22		
		ME	10 07 13.4	0.8	-85				
		MN	10 07 14.4	0.8		-46			
		F	10 11 29—						
454	" 7	e	23 51 49.3						In the Kasima-nada.
		F	23 54 41—						
455	" 8	P	0 24 51.8					287	Near Tanitabe in Ibaragi pref.
		S	0 25 30.5						
		MN	0 25 49.2	1.5		-7			
		ME	0 25 51.1	1.6	+8				
		F	0 28 27—						
456	" 8	e	10 14 27.6						N. part of the Kujyukuri-hama.
		F	10 18 28—						
457	" 9	P	3 59 24.3					197	Upper course of the river Kinu.
		S	3 59 50.8						
		F	4 01 59—						
458	" 9	P	12 16 44.0					190	Near the Yuasa bay in Wakayama pref.
		S	12 17 09.5						
		ME	12 17 15.9	0.6	-7				
		F	12 19 34—						



No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					A _E	A _N	A _Z		
			h m s	s	μ	μ	μ	km.	
459	Dec. 10	P	9 23 32.9					620	ϕ=141.9E, λ=39.4N. Lower course of the river Ootuti in Iwate pref.
		S	9 24 40.8						
		F	9 29 46—						
460	" 10	e	18 06 12.1						Near Anegasaki in Tiba pref.
		F	18 08 55—						
461	" 10	e	19 03 31.0						A distant shock. Near Borneo.
		F	19 11 56—						
462	" 11	e	0 30 36.7						A local shock.
		F	0 32 48—						
463	" 11	P	12 50 42.6					384	ϕ=140.8E, λ=36.7N. N. part of the Kasima-nada.
		eS	12 51 20.9						
		MN	12 51 35.1	2.2		+8			
		ME	12 51 36.9	2.1	+5				
		F	12 55 40—						
464	" 12	e	0 35 36.6						Near Takada city.
		F	0 37 00—						
465	" 12	e	6 44 23.9						SE. part of Tokushima pref.
		F	6 45 47—						
466	" 12	e	17 51 16.3						Central Honsyu.
		F	17 56 54—						
467	" 12	e	21 52 21.8						Near Ooita city.
		F	21 54 36—						
468	" 13	e	11 12 52.2						Central Honsyu.
		F	11 15 46—						
469	" 14	e	22 40 10.2						Near Moriya in Ibaragi pref.
		F	22 41 52—						
470	" 15	e	2 20 17.0						N. part in the Kasima-nada.
		F	2 22 31—						
471	" 15	e	6 48 39.2						Near Maebasi city.
		F	6 50 51—						



No.	Date	Phase	Time 135°E M. C. T. h m s	Period s	Amplitude			△ Epicentre- distance km.	Remarks
					AE μ	AN μ	Az μ		
472	Dec. 15	P	11 05 14.1					11425	A distant earthquake. Tibet district.
		L	11 17 12.1						
		MN	11 20 25.1	16.4		+64			
		Mz	11 21 03.3	15.0		-11			
		ME	11 21 12.2	16.3	+22				
		F	11 57 55-						
473	" 16	eP	4 20 15.0				79	Lower course of the river Hidaka in Wakayama. pref.	
		S	4 20 25.6						
		F	4 22 57-						
474	" 16	P	4 24 59.5				7210	A distant shock	
		S	4 33 39.2						
		F	4 50 18-						
475	" 16	e	16 50 10.7					A local shock? Faint record.	
		F	16 55 40-						
476	" 16	eP	17 23 13.7				282	In the Kasima-nada.	
		eS	17 23 51.6						
		F	17 26 58-						
477	" 18	e	1 00 17.0					A distant shock.	
		F	1 10 32-						
478	" 18	P	22 49 14.7				139	Near Mt. Hakone.	
		S	22 49 33.3						
		F	22 51 09-						
479	" 19	eP	18 03 21.7				430	SSE. sea off Kinkwazan.	
		eS	18 04 19.6						
		F	18 06 22-						
480	" 21	P	10 08 13.1				294	NE. sea off Hatijyo Is.	
		S	10 08 52.7						
		F	10 12 19-						
481	" 21	P	11 39 04.0				290	Sea off Noto peninsula.	
		S	11 39 43.1						
		F	11 42 51-						
482	" 21	P	15 45 24.2				216	In the Kii strait.	
		S	15 45 53.3						
		F	15 48 06-						



No.	Date	Phase	Time 135° E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
483	Oct. 22	P	14 36 17.2					254	N. sea off Hatijyo Is.
		S	14 36 51.4						
		F	14 39 50—						
484	" 25	P	0 30 49.4					23	A local shock. Near Nagoya city.
		S	0 30 52.5						
		F	0 31 52—						
485	" 25	P	0 42 29.5					2010	A distant earthquake. Near Marianna Is.
		S	0 45 53.5						
		F	0 55 28—						
486	" 25	P	15 31 38.2					2280	Ditto. Near Marianna Is.
		S	15 35 25.5						
		ME	15 35 39.1	3.7	-24				
		MN	15 35 41.9	3.4		+17			
		F	15 50 34—						
487	" 25	P	16 53 40.1					2100	Ditto.
		S	16 57 11.7						
		F	17 09 23—						
488	" 25	e	21 51 04.6						Ditto.
		F	22 01 21—						
489	" 25	e	22 14 47.4						Ditto.
		F	22 22 23—						
490	" 27	eP	7 56 04.6					202	In the Kii strait.
		S	7 56 31.8						
		F	7 58 52—						
491	" 28	e	16 48 50.8						Sea off Ogasawara Is.
		F	16 54 55—						
492	" 31	P	19 16 27.1					399	NE. sea off Inubo cape.
		S	19 17 20.9						
		F	19 20 30—						

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