

1936-1938



SEISMOLOGICAL BULLETIN

OF THE

AITIKEN METEOROLOGICAL OBSERVATORY

NAGOYA JAPAN

VOL. VII. NO. 1,

FROM JANUARY TO JUNE.

1936

NAGOYA

October 1936

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 ^o	ξ	$\frac{r}{T^{c2}}$	V
Wiechert 200kg	I { N E	5.1	8	0.02	95
		5.2	9	0.02	94
	II { N E	5.1	6	0.02	96
		5.0	8	0.01	92
" 80kg	Z	3.3	12	0.04	82
Omori	{ N E	20.0	4	0.04	20
		20.0	3	0.02	20

Note. I, Jan. 1 to Jan. 31
 II, Feb. 1 to Jan. 30

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. Remarks.

Covered = Covered by following shock.

Is. = Island. Pref. = Prefecture.

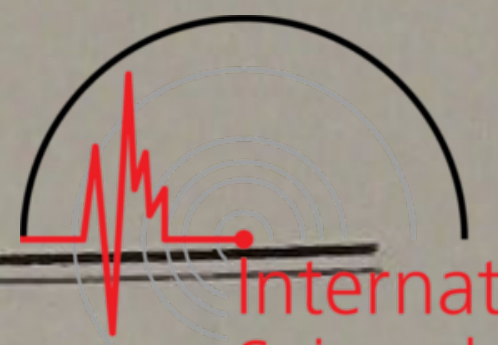


No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
1	Jan. 1	e F	2 53 03.9 2 54 10—						Near Mt. Aso.
2	" 1	eP S F	7 08 33.7 7 08 36.1 7 09 26—					18	A local shock. Near Nagoya city.
3	" 3	e F	7 43 41.8 7 46 30—						A distant shock.
4	" 6	eP S F	14 22 32.0 14 23 09.0 14 27 06—					275	ψ = 140.9°E, λ36.1°N In the Kasima-nada.
5	" 8	iP S MN ME F	4 33 55.2 4 34 09.3 4 34 10.0 4 34 14.7 4 42 02—		-3	+1	-2	105	ψ = 135.8°E, λ35.0°N. Near Kyoto city. Moderate shock was felt near the centre and slight shock was felt over Kinki district.
6	" 8	eP S F	17 07 58.6 17 08 14.8 17 10 04—					120	Near Misima in Sizuoka pref.
7	" 8	eP S F	20 35 06.2 20 35 30.6 20 37 37—					181	Near Kanuma in Totigi pref.
8	" 9	eP S F	7 22 02.0 7 23 02.8 7 27 30—					570	Near Isinomaki
9	" 13	iP iS ME1 ME2 MN1 MN2 F	13 54 58.8 13 55 17.8 13 55 24.2 13 55 24.4 13 55 25.1 13 55 25.4 14 02 45—		-2.1	+2.5	+4.8	141	Near Mt. Tateyama in Toyama pref.
10	" 15	eP eS F	12 49 48.2 12 50 22.6 12 53 30—					255	Sea off the mouth of the river Kuzi.

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.	
11	Jan 18	eP	6 18 41.5					252	SW. part of Ibaraki pref.
		eS	6 19 15.4						
		F	6 21 54—						
12	" 21	eP	2 02 32.9					6866	SE. sea off Mindanao Is.
		L	2 10 55.2						
		F	2 32 06—						
13	" 21	eP	15 56 18.7					163	Near Kiyokawa in Wakayama pref.
		S	15 56 40.6						
		F	16 01 48—						
14	" 22	e	18 34 21.5						In the Kumano-nada.
		F	18 36 19—						
15	" 22	e	18 42 17.6						E. foot of Mt. Huzi.
		F	18 44 10—						
16	" 25	e	1 23 57.6						Near Hunazu in Yamanasi pref.
		F	1 25 27—						
17	" 28	eP	10 38 21.0					178	Near Miyazu.
		S	10 38 44.9						
		F	10 40 32—						
18	" 29	eP	3 48 33.3					176	Near Miyake Is.
		S	3 48 57.0						
		F	3 53 19—						
19	" 29	eP	10 28 48.5					424	ψ = 140.9°E, λ 36.1°N. In the Kuzyukuri-hama. Slight shock was felt over Kwanto.
		P̄	10 29 00.0						
		S	10 29 45.6						
		ME	10 29 56.3	2.7	+ 22				
		MZ	10 30 01.7	1.2		-17			
		F	10 39 03—						
20	" 29	eP	13 09 47.8					174	Near Miyake I.
		S	13 10 11.2						
		F	13 11 56—						
21	" 30	e	3 29 13.6						SE. sea off Siriya cape.
		F	3 35 05—						

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.	
22	Feb. 3	iPz	1 37 54.7					42	Near Mt. Sengadake in Mie pref.
		iS	1 38 00.3						
		F	1 40 25—						
23	" 3	eP	6 49 17.0					47	Near Gihu city.
		S	6 49 23.4						
		F	6 51 21—						
24	" 5	iP	16 11 43.6					116	Near Kyoto city.
		S	16 11 59.3						
		F	16 17 28—						
25	" 7	eP	6 09 52.4					33	A local shock. Near Nagoya city.
		S	6 09 56.8						
		F	6 10 35—						
26	" 7	eP	18 02 11.6					3215	A distant earthquake. E. part of Tibet.
		eS	18 07 09.1						
		L	18 11 04.7						
		F	18 37 18—						
27	" 8	eP	21 18 38.2					560 ?	A distant earthquake.
		eS	21 19 40.4						
		F	21 28 18—						
28	" 8	eP	23 36 08.1					75	Epicentre unknown. A local shock?
		eS	23 36 18.2						
		F	23 37 03—						
29	" 11	e	3 15 58.6						A distant shock.
		F	3 22 50—						
30	" 11	P	7 05 58.0					284	Near Isioka in Ibaraki pref.
		S	7 06 36.2						
		F	7 12 32—						
31	" 12	P	18 41 49.8					4594	A distant earthquake.
		S	18 48 10.2						
		F	18 56 56—						
32	" 13	eP	5 23 39.1	2.6				1309	S. sea off Titzima Is.
		S	5 25 58.0						
		MN	5 26 11.9						
		F	5 34 04—						

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.	
33	Feb. 15	P	21 54 29.0					4225	A distant earthquake.
		PP	21 55 02.4						
		S	22 00 28.6						
		L	22 03 33.7						
		F	22 54 08—						
34	" 21	iPz	10 08 21.5		-74	-44	-32	121	ϕ = 135.7°E, 134.5°N. Border between Kawati and Yamato. Moderate shock was felt in the central Japan. Strong shock was felt at the centre.
		Sz	10 08 37.8						
		ME	10 08 47.8	1.9	+3600				
		Mz	10 08 55.2	1.9			±1500		
		MN	10 08 59.2	1.9		+4000			
		F	10 31 —						
35	" 21	e	11 06 02.4						An after shock of the strong shock in Kawati and Yamato.
		F	11 07 43—						
36	" 21	P	11 10 14.5					116	Ditto.
		S	11 10 30.2						
		MN	11 10 31.2	1.0			-31		
		ME	11 10 34.7	0.8	+30				
		Mz	11 10 38.4						
		F	11 17 24—						
37	" 21	e	11 19 02.7						Ditto.
		F	11 19 52—						
38	" 21	e	11 30 12.8						Ditto.
		F	11 30 55—						
39	" 21	e	11 37 17.6						Ditto.
		F	11 37 54—						
40	" 21	iP	13 05 05.3		-4	-1	-2	130	Ditto.
		S	13 05 22.8						
		MN ₁	13 05 24.8	1.2			+83		
		ME	13 05 25.0	1.2	-115				
		Mz	13 05 39.0	—			±34		
		MN ₂	13 05 42.8	1.1			-83		
		F	13 17 36—						
41	" 21	eP?	14 00 49.4					2227	Ditto
		eS	14 01 19.3						
		F	14 02 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.	
42	Feb. 21	e	18 23 15.5						An after shock of the strong shock in Kawati and Yamato.
		F	18 24 35—						
43	" 22	eP	0 55 17.1					110	Ditto.
		S	0 55 31.9						
		F	0 56 58—						
44	" 22	e	2 04 19.1						A distant shock.
		F	2 17 16—						
45	" 22	eP	4 16 28.2					128	An after shock of the strong shock in Kawati and Yamato.
		S	4 16 45.4						
		F	4 18 05—						
46	" 22	eP	4 18 36.7					111	Ditto.
		S	4 18 51.7						
		F	4 20 51—						
47	" 22	eP	6 53 55.7					123	Ditto.
		S	6 54 12.2						
		ME	6 54 14.7	0.5	+9				
		MS	6 54 17.4	0.7		+10			
		F	6 58 27—						
48	" 22	eP	11 56 21.8					59	Near Nagoya city.
		S	11 56 29.7						
		F	11 56 56—						
49	" 22	e	12 05 45.6						Near Simokanno in Wakayama pref.
		F	12 06 56—						
50	" 23	eP	0 44 49.4					4175	A distant earthquake.
		eS	0 50 46.1						
		F	1 25 02—						
51	" 23	e	4 45 03.2						An after shock of the strong shock in Kawati and Yamato.
		F	4 45 53—						
52	" 24	eP	2 06 20.8					121	Ditto.
		S	2 06 37.1						
		F	2 08 05—						
53	" 24	eP	8 49 16.9					232	In the Ensyu-nada.
		S	8 49 48.2						
		F	8 52 03—						

No.	Date	Phase	Time 135°E M. O. T	Period s	Amplitude			△ Epicentre- distance km.	Remarks
					AE	AN	Az		
54	Feb. 27	eP	2 41 29.4		μ	μ	μ	143	In the Kii-strait.
		S	2 41 48.7						
		F	2 45 01—						
55	" 27	eP	19 11 59.7					9116	A distant earthquake.
		L	19 22 16.0						
		F	19 34 54—						
56	" 28	e	1 58 54.3						Ditto?
		F	2 06 58—						
57	" 28	e	8 46 02.4						N. part of the Tokyo bay.
		F	8 50 49—						
58	" 28	e	9 18 32.3						In the Aki bay.
		F	9 22 59—						
59	" 29	eP	9 33 29.8					165	The mouth of the river Kinokawa.
		S	9 33 52.0						
		F	9 38 40—						
60	Mar. 1	eP	10 06 57.9					51	Near the city of Hamamatu. Slight shock was felt at Koromo in Aiti pref.
		S	10 07 04.8						
		F	10 10 05—						
61	" 1	eP	19 25 03.2					1450	$\psi = 145.0^\circ E, \lambda = 44.8^\circ N.$ N. sea off Siretoko cape. A shock were felt at SE. part of Hokkaido and NE. part of Tohoku districts.
		S	19 27 35.4						
		ME	19 27 50.5	3.2	-25				
		MN	19 28 09.6	2.6		+19			
		F	19 34 38—						
62	" 2	eP	12 21 14.9					1270	$\psi = 144.^\circ E, \lambda = 41.6^\circ N.$ SE. sea off Erimo cape. A shock were felt at S. part of Hokkaido and NE. part of Tohoku districts.
		PP	12 22 04.4						
		eS	12 23 14.9						
		MN ₁	12 23 27.5	2.9		-165			
		Mz	12 23 34.3	1.6					
		ME	12 23 55.7	2.9	-155		+26		
		MN ₂	12 24 03.1	2.2		+154			
		F	12 55 45—						
63	" 2	eP	13 35 44.9					1230	Near Amami Osima Is.
		eS	13 37 56.2						
		F	13 45 45—						

No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre distance	Remarks
					△E	AN	Az		
			h m s	s	μ	μ	μ	km.	
64	Mar. 3	eP	3 07 04.9					121	An after shock of the strong shock in Kawati and Yamato.
		S	3 07 21.2						
		F	3 09 03 -						
65	" 4	e	1 56 26.5					Mt. Asama.	
		F	1 58 0 -						
66	" 6	P	8 38 45.3				115	Near Hukui city.	
		S	8 39 00.8						
		F	8 42 17 -						
67	" 6	eP?	13 15 42.9					SE. sea off Erimo cape	
		eS	13 17 23.0						
		F	13 21 29 -						
68	" 8	eP	2 21 09.4				231	The lower course of the river Kinu.	
		eS	2 21 40.6						
		F	2 23 40 -						
69	" 10	eP	3 01 33.2				37	Near Nagoya city.	
		S	3 01 38.2						
		F	3 02 01 -						
70	" 10	eP	8 43 09.2				186	The mouth of the river Edo.	
		eS	8 43 34.4						
		F	8 44 38 -						
71	" 10	eP	11 27 40.3				152	Near Kurihasi in Saitama pref.	
		eS	11 28 00.9						
		F	11 30 57 -						
72	" 10	eP	15 10 01.1				135	Near Mikkaido in Ibaraki pref.	
		eS	15 10 19.2						
		F	15 12 30 -						
73	" 11	P	5 38 10.4				1162	S. sea off Erimo cape.	
		S	5 40 14.6						
		MN	5 40 23.1	2.6		+23			
		F	5 52 23 -						
74	" 11	P	9 45 37.1				890	ψ = 143.4°E, λ = 39.7°N. E. sea off Miyako. Slight shock was felt at NE. part of Tohoku district.	
		S	9 47 14.2						
		ME	9 47 45.8	2.5		±65			
		MN ₁	9 47 52.6	2.7		-104			
		MN ₂	9 48 00.2	2.7		+125			
		F	10 01 53 -						

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.	
75	Mar. 11	eP	10 52 11.5					657	Sea off Miyako.
		eS	10 53 23.2						
		F	10 57 46—						
76	" 11	eP	11 15 05.1					103	Near Nagano city.
		eS	11 15 19.0						
		F	11 16 01—						
77	" 12	eP	14 55 12.7					430	Sea off Kuzyukuri-hama.
		eS	14 56 10.7						
		F	15 01 29—						
78	" 12	eP	17 54 07.0					126	Near the mouth of the river Arita.
		eS	17 54 24.0						
		F	17 55 47—						
79	" 15	eP	18 08 42.7					241	Near the city of Kumagaya.
		eS	18 09 15.1						
		F	18 10 31—						
80	" 18	e	12 58 11.6						An after shock of the strong shock in Kawati and Yamato.
		F	12 58 44—						
81	" 21	e	6 58 30.7						Near Nagoya city. Feeble tremors.
		F	7 00 26—						
82	" 22	e	21 24 41.8						A distant shock.
		F	21 47 22—						
83	" 23	eP	10 43 12.6					66	Near Hatiman in Gihu pref.
		S	10 43 21.5						
		ME	10 43 37.4	0.7	-25				
		MN	10 43 28.3	0.5		+21			
		MZ	10 43 41.4	—			+12		
		F	10 49 23—						
84	" 24	e	0 56 36.2						Near Nagoya city. Feeble tremors.
		F	1 01 11—						
85	" 24	e	1 44 04.1						Near Nagoya city.
		F	1 48 15—						

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.	
86	Mar. 25	iP	2 58 38.8					280	In the Kumano-nada. (deep focus)
		S	2 59 16.5						
		ME	2 59 17.0	1.2	-11				
		MN	2 59 18.6	2.2		-15			
		F	3 08 10-						
87	" 25	eP	6 43 44.1				691	Sea off Kamoi cape in Hokkaido.	
		eS	6 45 00.2						
		F	6 51 22-						
88	" 27	eP	18 17 13.5				434	In the Kasima-nada.	
		S	18 18 12.0						
		F	18 22 08-						
89	" 31	eP	0 58 02.1				571	Sea off the mouth of the river Moroto in Hukusima pref.	
		S?	0 59 05.2						
		F	1 04 02-						
90	" 31	eP	12 36 26.8				1460	S. sea off Titizima Is. (deep focus)	
		S	12 38 59.9						
		ME	12 39 21.8	3.5	+ 9				
		MN	12 39 23.6	3.2		+15			
		F	12 50 17-						
91	April 1	eP	1 31 05.4				408	In the Kasima-nada.	
		S	1 32 00.4						
		F	1 36 12-						
92	" 1	eP	11 15 48.0				4630	A distant earthquake.	
		iP	11 15 57.1						
		eL	11 22 09.8						
		Mz	11 30 20.9	17.6		-788			
		MN	11 30 29.5	16.8		+707			
93	" 1	e	21 56 40.9					In the Kii-strait.	
		F	21 57 56-						
94	" 2	eP	5 17 26.5				860	A distant earthquake.	
		eS	5 18 59.9						
		F	5 36 17-						
95	" 3	iP	23 49 08.7		-1.8	-2.0	105	Near Kyoto city.	
		S	23 49 22.9						
		F	23 51 29-						

No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks		
					A _E	A _N	A _Z				
96	April 4	P	h m s 3 11 58.5	"	μ	μ	μ	433	Sea off Inubo cape.		
		S	3 12 56.9								
		F	3 15 04—								
97	" 5	eP	9 58 07.3					164	Near Mt. Tukuba.		
		eS	9 58 29.4								
		F	9 59 25—								
98	" 5	eP	15 06 27.8					1630	S. sea off Titizima Is.		
		eS	15 09 16.3								
		F	15 15 28—								
99	" 5	P	23 29 12.4					590	S. sea off Hatizyo Is.		
		S	23 30 17.8								
		M _E	23 30 22.4							2.5	+14
		M _N	23 30 28.2							2.4	-22
		F	23 40 18—								
100	" 6	eP	13 12 54.9					434	E. sea off the mouth of the river Watari in Koti pref.		
		S	13 13 53.5								
		F	13 19 10—								
101	" 9	P	0 48 32.5					248	N. part of Tokyo bay		
		S?	0 49 05.9								
		F	0 53 24—								
102	" 9	e	14 48 58.9						N part of Tiba pref.		
		F	14 50 41—								
103	" 10	eP	1 46 37.0					185	Near Niigata city.		
		eS	1 47 01.9								
		F	1 49 18—								
104	" 10	eP	4 39 07.1					362?	Near Siomisaki.		
		S	4 39 55.9								
		F	covered								
105	" 11	eP	11 30 33.9					271	Near Tokamati in Niigata pref.		
		S	11 31 10.4								
		F	covered								
106	" 11	eP	11 32 37.9					293	Ditto.		
		S	11 33 17.4								
		F	11 35 23—								
107	" 12	e	8 43 30.5								
		F	8 46 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.	
108	April 13	eP	5	56	50.8					3645	A distant earthquake.
		L	6	02	17.3						
		F	6	22	44—						
109	" 13	eP	6	23	38.1					974	Near Palao Is.
		S	6	25	23.5						
		ME	6	25	25.1	2.5	+ 12				
		Mz	6	25	25.3	1.4		+ 4			
		F	6	32	21—						
110	" 14	eP	12	25	30.6					226	Near Wakayama city.
		S	12	26	01.0						
		F	12	28	26—						
111	" 15	eP	15	14	49.1					269	Epicentre unknown.
		S	15	15	25.4						
		F	15	25	27—						
112	" 16	eP	4	20	36.4					1056	E. sea off Siringa cape.
		S	4	22	20.0						
		F	4	31	14—						
113	" 17	eP	9	03	13.8					142	Near Mt. Ohi in Nara pref.
		S	9	03	32.9						
		F	9	05	48—						
114	" 19	eP	2	12	36.7					268	N. part of the Tokyo bay.
		S	2	13	12.8						
		F	2	16	39—						
115	" 19	eP	4	56	12.7					220	The middle course of the river Hidaka in Wakayama pref.
		S	4	56	42.4						
		F	4	58	27—						
116	" 19	Pz	14	15	42.2					9060	A distant earthquake.
		eL	14	25	55.7						
		F	15	23	26—						
117	" 21	eP	4	21	15.8					55	Near Gihu city.
		S	4	21	23.1						
		F	4	22	20—						

No.	Date	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
118	April 21	eP	h m s 4 54 05.3		μ	μ	μ	240	S. part of the Kasima-nada.
		eS	4 54 37.6						
		F	4 57 20—						
119	" 21	iP	13 15 44.7	1.1	+1.1	+1.3	+4.9	220	Near Nogami in Saitama pref.
		S	13 16 14.4						
		MN	13 16 17.5						
		ME	13 16 21.9						
		F	13 22 18—						
120	" 22	e	0 02 21.3						In the Kasima-nada.
		F	0 03 37—						
121	" 24	eP	3 51 58.7				194		Sea off Kuzukuri-hama.
		eS	3 52 24.8						
		F	3 55 09—						
122	" 24	e	14 24 26.7						Mt. Asama.
		F	14 26 32—						
123	" 25	e	13 10 20.9						Near Misima.
		F	13 11 05—						
124	" 26	e	4 41 20.6						Sea off Sioya cape.
		F	4 41 59—						
125	" 26	eP?	11 18 12.7						Near Miyazaki city
		S	11 18 31.4						
		F	11 20 25—						
126	" 26	e	17 51 24.9						Mt. Asama.
		F	17 55 25—						
127	" 26	P	23 55 45.8				228		Near the mouth of the river Arita in Wakayama pref.
		S	23 56 16.5						
		F	0 01 33.8						
128	" 27	eP	9 05 10.5				7000		A distant earthquake.
		L	9 13 39.9						
		F	9 43 22—						
129	" 27	eP	10 39 26.9				3280		Ditto.
		eL	10 44 30.0						
		F	10 56 31—						

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.	
130	April 27	P	21 52 03.2					404	In the Kasima-nada.
		S	21 52 57.6						
		MN	21 53 07.3			+66			
		ME	21 53 27.7		+54				
		F	22 03 21—						
131	" 27	e	23 38 57.2					191	The course of the river Arita in Wakayama pref.
		F	23 40 06—						
132	" 28	eP	10 21 03.8					4295	A distant earthquake.
		S	10 21 29.5						
		F	10 22 19—						
133	" 28	eP	22 43 26.1					680	NE. sea off Hatzuyo Is.
		eL	22 49 29.6						
		F	22 58 36—						
134	" 30	eP	1 48 14.0					117	Near Iwai in Ibaraki pref.
		S	1 49 29.1						
135	" 30	e	16 29 58.9					108	The lower course of the river Hidaka in Wakayama pref.
		F	16 34 12—						
136	May 1	eP	15 16 16.4					67	Near Nagoya city.
		S	15 16 32.2						
		F	15 19 22—						
137	" 2	e	14 40 49.6					936	ψ = 144.4°E, λ42.2°N. S. sea off Kusiro.
		F	14 43 14—						
138	" 3	e	2 01 36.8					108	The lower course of the river Hidaka in Wakayama pref.
		F	2 04 10—						
139	" 3	eP	7 04 27.9					67	Near Nagoya city.
		S	7 04 42.4						
		F	7 06 42—						
140	" 3	eP	7 31 41.5					67	Near Nagoya city.
		S	7 31 50.6						
		F	7 34 16—						
141	" 4	eP	17 13 25.8					936	ψ = 144.4°E, λ42.2°N. S. sea off Kusiro.
		S	17 15 07.4						
		F	17 21 33—						

No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
142	May 5	eP	h m s 9 15 43.6	s	μ	μ	μ	km. 405	In the Kasima-nada.
		S	9 16 38.1						
		F	9 20 34—						
143	" 5	e	22 53 26.7						Sea off the Yosihama bay in Iwate pref.
		F	22 56 15—						
144	" 8	e	6 59 44.3						Near Nagoya city. Faint record.
		F	7 01 19—						
145	" 8	eP	18 19 18.6				4209		A distant earthquake.
		L	18 25 17.5						
		F	18 37 34—						
146	" 11	e	3 30 36.5						Near Mizonokuti in Kanagawa pref.
		F	3 32 21—						
147	" 12	eP	2 35 22.3				1530		A distant earthquake.
		eS	2 38 02.1						
		ScS?	2 45 49.7						
		F	2 58 45—						
148	" 13	eP	1 24 07.0				125?		In the Kasima-nada.
		eS	1 24 23.9						
		F	1 25 45—						
149	" 13	eP	18 06 35.0				438		Ditto.
		S	18 07 34.0						
		F	18 13 07—						
150	" 13	eP	20 10 40.1				730		Near Okinosima Is. in Koti pref
		S	20 11 59.9						
		F	20 22 11—						
151	" 14	e	0 31 22.9						Near Nagoya city.
		F	0 34 37—						
152	" 14	eP	1 37 01.3				262		In the Kii-strait.
		S	1 37 36.6						
		F	1 41 30—						
153	" 14	eP	10 34 39.2				850?		N. part of the Kasima-nada.
		eS	10 36 11.6						
		F	10 39 46—						

No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre distance	Remarks
					ΔE	AN	AZ		
			h m s	s	μ	μ	μ	km.	
154	May 14	eP	10 41 15.9					422	In the Kasima-nada.
		eS	10 42 12.7						
		F	10 46 47—						
155	" 16	e	0 35 00.6						Epicentre unknown.
		F	0 39 17—						
156	" 16	e	5 24 01.1						S sea off Titizima Is.
		F	5 28 12—						
157	" 16	eP	16 11 44.9				5640		A distant earthquake.
		iP	16 11 52.0						
		eL	16 19 02.2						
		MN	16 23 23.0	14.0	+390				
		ME	16 24 31.9	11.5	±170				
		F	16 48 29—						
158	" 19	eP	4 11 58.5				423	In the Kasima-nada.	
		eS	4 12 55.4						
		F	4 18 19—						
159	" 19	eP	16 30 09.2				3310	A distant earthquake.	
		eS	16 36 14.6						
		F	16 49 33—						
160	" 20	P	5 58 25.5				4755	Ditto.	
		S	6 04 54.7						
		F	6 17 26—						
161	" 20	eP	12 14 08.3				5490	Ditto.	
		eS	12 21 17.4						
		L	12 27 27.1						
		F	12 56 20—						
162	" 21	eP	22 03 13.9				399	In the Kasima-nada.	
		S	22 04 07.7						
		F	22 08 27—						
163	" 23	eP	3 50 08.6				178	Near Simozuma in Ibaraki pref.	
		S	3 50 32.6						
		F	3 52 06—						
164	" 23	eP	20 29 46.6				237	NW. sea off Hatizyo Is.	
		S	20 30 18.5						
		F	20 33 25—						

No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks		
					A _E	A _N	A _Z				
165	May 24	eP	h m s 8 02 18.9		μ	μ	μ	km. 39	Near Nagoya city.		
		S	8 02 24.1								
		F	8 03 18—								
166	" 24	eP	16 37 39.5					728	E. sea off Miyako.		
		S	16 38 59.3								
		F	16 43 23—								
167	" 25	e	12 09 00.2						A distant shock.		
		F	12 23 18—								
168	" 25	eP	21 06 27.8					291	In the Kumano-nada.		
		S	21 07 07.0								
		ME	21 07 07.2							2.2	+11
		MN	21 07 12.5							1.7	+7
		F	21 14 24—								
169	" 27	eP	0 37 52.9					636	In the Kagosima bay.		
		S	0 39 02.5								
		MN	0 39 07.6							0.8	+5
		ME	0 39 12.0							1.1	+8
		F	0 44 11—								
170	" 27	eP	7 48 22.4					184	Near Titizima Is.		
		S	7 48 47.2								
		F	7 50 45—								
171	" 27	eP	15 27 37.2					4921	A distant earthquake.		
		iP	15 27 39.2								
		L	15 34 15.0								
		ME	15 48 11.6							14.3	+114
		MN	15 48 16.5							14.2	-100
		F	16 08 40—								
172	" 28	eP	21 32 05.0					773	Near Kosyun.		
		S	21 33 29.3								
		F	21 41 23—								
173	" 29	eP	7 11 18.7					102	Near Mt. Sirane border between Kai and Sinano.		
		S	7 11 32.5								
		MN ₁	7 11 35.7							0.8	+17
		ME	7 11 39.4							0.8	+20
		MN ₂	7 11 48.3							1.5	-14
		F	7 19 13—								

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.	
174	May 29	eP?	7 31 03.7					277	Near Mt. Sirane border between Kai and Sinano.
		S	7 31 07.3						
		F	7 33 26-						
175	" 31	eP	5 40 29.5					150	The Middle course of the river Kinokawa.
		S	5 40 49.7						
		F	5 43 28-						
176	June 2	eP	15 30 22.8					336	In the Kii-strait.
		S	15 31 08.1						
		F	15 36 22-						
177	" 3	eP	11 57 28.7					1050	ψ = 142.3°E, λ = 41.3°N. E. sea off S. part of Hokkaido and all most of Tohoku.
		S	11 59 21.2						
		ME	12 00 48.0	2.8	+27				
		MN	12 00 54.5	2.7		-40			
		F	12 13 40-						
178	" 3	eP	19 26 25.4					1090	Near Sikotan Is.
		eS	19 28 22.5						
		F	19 40 42-						
179	" 4	e	16 23 32.6						Near Simozuma in Ibaraki pref.
		F	16 25 19-						
180	" 4	eP	22 09 24.8					900	SE. sea off Katuura.
		S	22 11 02.6						
		F	22 20 35-						
181	" 4	eP	23 12 00.6					228	Epicentre unknown.
		S	23 12 31.3						
		F	23 13 38-						
182	" 5	eP	1 48 17.3					128	W. foot of Mt. Huzi.
		S	1 48 34.6						
		F	1 51 46-						
183	" 5	iP	3 25 38.7		-0.9	-4.5	+15.1	177	ψ = 137.1°E, λ = 36.2°N. Near Takayama. Slight shock was felt at Nagoya.
		S	3 26 02.5						
		MN ₁	3 26 13.5	2.4		+273			
		Mz	3 26 14.2	-			-29		
		ME	3 26 15.0	2.7	+362				
		MN ₂	3 26 25.2	2.9		+271			
F	3 37 25-								

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.	
184	June 5	eP	8 42 36.7					427	NW. sea off Hatizyo Is.
		S	8 43 34.2						
		F	8 48 32-						
185	" 5	eP	13 38 39.4					23	Near Nagoya city.
		S	13 38 42.5						
		F	13 39 22-						
186	" 5	P	22 11 45.7					309	Sea off Hatizyo Is.
		S	22 12 27.4						
		F	22 22 15-						
187	" 5	P	23 44 25.4					9707	A distant shock
		S	23 46 10.1						
		L	23 49 57.6						
		F	24 01 29-						
188	" 6	P	2 19 11.4					245	Near Nagaido-numa in Ibaraki pref.
		S	2 19 43.5						
		F	2 22 25-						
189	" 8	e	13 22 41.6						Near Titizima Is.
		F	13 26 41-						
190	" 8	eP	15 28 02.1					820	Near Sizukawa in Miyagi pref.
		S	15 29 31.0						
		F	15 38 34-						
191	" 8	P	18 13 38.2					255	W\W. sea off Hatizyo-Is.
		S	18 14 12.6						
		F	18 23 45-						
192	" 8	eP	21 35 59.5					289	Near Mt. Tukuba.
		S	21 36 38.4						
		F	21 39 22-						
193	" 10	e	1 44 24.2						A distant shock.
		F	1 55 41-						
194	" 10	e	15 19 18.9						The middle course of the river Sinano. (deep focus)
		F	15 24 47.1						
195	" 10	P	16 03 46.2					800	Near Hatizyo Is.
		S	16 05 12.7						
		F	16 10 46-						

No.	Date	Phase	Time 135°E M. O. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
196	June 10	eP	17 30 48.7		μ	μ	μ	9090	A distant earthquake.
		iP	17 31 35.0						
		ME	17 32 12.2	2.6	±11				
		MN	17 32 30.8	2.9		+15			
		L	17 41 03.9						
		F	17 52 49-						
197	" 11	eP	8 31 10.2				540	In the Kuzyukuri-hama	
		eS	8 32 10.7						
		F	8 35 36-						
198	" 11	eP	17 55 42.0				328?	Near Higasiyokoyama in Gihu pref.	
		S	17 56 26.2						
		F	17 58 38-						
199	" 12	e	14 11 10.3					The upper course of the river Oyatori in Miyazaki pref.	
		F	14 17 47-						
200	" 12	eP	23 08 28.4				720	SE. sea off Katuura.	
		S	23 09 47.3						
		F	23 15 29-						
201	" 13	eP	12 11 19.4				720	Sea off Kuzyukuri-hama.	
		S	12 12 38.5						
		F	12 17 30-						
202	" 13	e	13 33 09.3					Mt. Tukuba.	
		F	13 36 37-						
203	" 14	e	11 33 14.4					In the Okhotsk sea.	
		F	11 43 34-						
204	" 15	eP	12 01 45.0				1745	Sea off Titizima Is.	
		S	12 04 44.5						
		F	12 13 52-						
205	" 15	e	19 10 33.9					A local shock. Near Nagoya city.	
		F	19 14 27-						
206	" 16	eP	12 28 02.7				76	Near Hinomisaki in Wakayama pref.	
		S	12 28 13.0						
		F	12 31 52-						

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.	
207	June 17	eP	13 52 04.7					3067	Near Koti city.
		eS?	13 52 46.0						
		F	13 57 41—						
208	" 17	eP	17 56 45.6					157	Near the mouth of the river Edo.
		S	17 57 06.7						
		F	18 02 28—						
209	" 19	eP	4 52 36.0					199	Near Sakai in Ibaraki pref.
		eS	4 53 02.8						
		F	4 55 21—						
210	" 19	e	14 28 19.3						Mt. Asama. (vo cano)
		F	14 32 25—						
211	" 19	eP	15 36 24.6					373	In the Kasima-nada.
		S	15 37 14.9						
		F	15 40 22—						
212	" 20	P	1 40 19.7					194	Sea off the mouth of the river Yosino.
		S	1 40 45.9						
		F	1 47 34—						
213	" 21	e	0 58 40.0						Sea off the Suruga bay.
		F	1 03 14—						
214	" 21	eP	1 41 17.5					659	Near Inubo cape
		eS	1 42 29.4						
		F	1 45 32—						
215	" 21	eP	6 51 29.6					149	The lower course of the river Arita.
		eS?	6 51 49.7						
		F	6 53 31—						
216	" 21	P	16 33 10.2					19	A local shock. Near Nagoya city
		S	16 33 12.8						
		F	16 34 28—						
217	" 22	e	7 01 27.3						SE. sea off Siringa cape.
		F	7 04 16—						
218	" 23	eP	2 30 54.7					189	Near Ogawa in Ibaraki pref.
		S	2 31 20.1						
		F	2 33 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.	
219	June 23	e	10 52 01.7						Sea off Hatizyo Is.
		F	10 57 43-						
220	" 23	eP	11 34 48.4					48	Near Gihu city.
		S	11 34 54.8						
		F	11 37 26-						
221	" 23	eP	23 01 57.0					143?	Sea off Sioya cape.
		S	23 02 16.2						
		F	23 04 41-						
222	" 24	eP	16 59 33.8					387	Sea off Hatizyo Is?
		S	17 00 25.9						
		F	17 03 49-						
223	" 26	eP	0 46 47.7					397	Sea off Sioya cape.
		S	0 47 41.2						
		F	0 52 24-						
224	" 26	P	1 52 55.6			+10	-11	362	ψ=137.9°E, λ=32.5°N. SW. sea off Hatizyo Is. (deep focus) A shock was felt at Kwanto district.
		S	1 53 44.4						
		MZ	1 53 45.6	1.7			±17		
		ME	1 53 46.7	3.2	+275				
		MN	1 53 50.0	2.4		+110			
		F	2 09 26-						
225	" 28	eP	2 19 39.1					106	Near Kyoto city.
		S	2 19 53.2						
		MN	2 19 56.2	0.5		+10			
		ME	2 19 58.7	0.5	+12				
		F	2 26 33-						
226	" 28	eP	6 16 10.1					1069	Near Sikotan Is.
		S	6 18 05.0						
		MN	6 19 07.9	2.1		-11			
		F	6 29 15.0						
227	" 28	e	17 11 48.7						SE. sea off Hatizyo Is.
		F	17 28 33-						
228	" 28	eP	17 33 32.7					964	Ditto.
		S	17 35 16.7						
		MN	17 35 29.2	2.4		+10			
		F	17 47 20-						

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.	
229	June 29	eP	0	27	53.4					588	In the Kasima-nada.
		S	0	28	58.2						
		M _N	0	29	30.9	2.1		-7			
		M _E	0	29	37.7	2.0	+4				
		F	0	36	23—						
230	" 29	eP	2	24	06.2					606	E. sea off Hatizyo Is.
		S	2	25	12.8						
		M _N	2	25	55.3	2.5		-8			
		M _E	2	26	20.4	2.3	+5				
		F	2	33	10—						
231	" 29	e	2	35	02.4						Sea off Hatizyo Is.
		F	2	40	04—						
232	" 29	eP	11	47	16.3					124	The lower course of the river Tenryu.
		S	11	47	33.0						
		F	11	50	33—						
233	" 29	eP	23	37	52.2					1112	A distant earthquake.
		S	23	39	51.4						
		F	23	52	07—						
234	" 30	eP	12	33	40.4					605	Near Tago in Ibaraki pref.
		S	12	34	46.9						
		F	12	39	31—						
235	" 30	eP	20	20	20.4					646	The upper course of the river Hidaka in Wakayama pref.
		S	20	21	31.0						
		F	20	26	02—						

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編輯者

山田久邦

名古屋市東區田代町字金兒砦
愛知縣測候所內

發行所

愛知縣測候所

名古屋市東區田代町字金兒砦

印刷所

英比貞造

名古屋市中區南大津町二丁目三番地

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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.

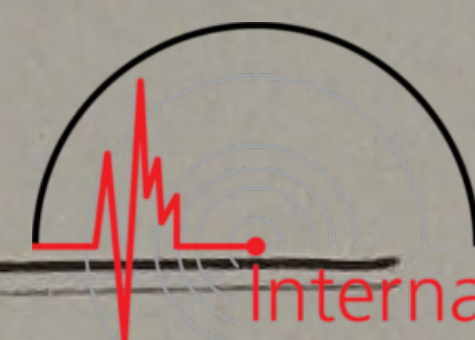
i = Sudden beginning of the motion.

e = Gradual beginning of the motion.

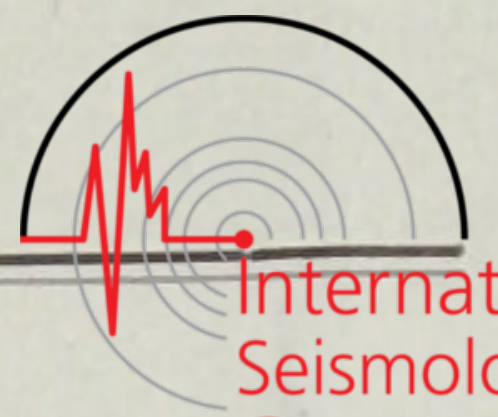
III. Remarks.

Covered = Covered by following shock.

Is. = Island. Pref. = Prefecture.



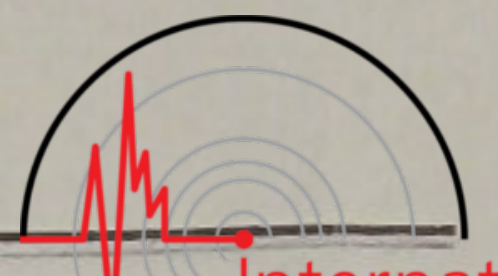
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
236	July 1	P	0 11 50.8		-32	-31	-15	2710	A distant earthquake. In the Okhotsk sea.
		S	0 16 12.1						
		L	0 18 30.6						
		ME	0 19 20.7	22.8	+810				
		MN	0 20 22.9	20.9		-681			
F	1 52 20-								
237	" 2	P	9 47 30.4					198	Near Hinomisaki in Wakayama pref.
		S	9 47 57.1						
		F	9 51 38-						
238	" 3	e	0 54 10.7						SE. sea off Boso peninsula.
		F	0 57 28-						
239	" 3	eP	12 06 24.9					306	Epicentre unknown.
		S	12 08 06.1						
		F	12 18 22-						
240	" 4	eP	6 04 44.1					983	127.7°E, 35.2°N. S. foot of Mt. Tiizan in Tyosen.
		S	6 06 30.4						
		F	6 13 08-						
241	" 5	eP	5 41 38.7					546	Sea off Kuzyukuri-hama.
		S	5 42 39.3						
		ME1	5 42 46.5	1.6	+42				
		MF2	5 43 10.6	1.6	-33				
		MN1	5 43 0.28	3.1		+56			
		MN2	5 43 0.53	2.6		+42			
F	5 52 53-								
242	" 5	eP	11 51 44.2					700	Sea off Katuura.
		S	11 53 01.2						
		F	11 56 21-						
243	" 5	eP	22 15 35.7						Mt. Asama.
		eS	22 16 39.4						
		F	22 19 32-						
244	" 5	eP	23 39 07.2						Sea off Etorohu Is.
		eS?	23 39 43.1						
		F	23 42 02-						



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.	
245	July 5	eP	23	56	19.2					351	N. part of the Kasima-nada.
		S	23	57	06.4						
		F	0	00	59—						
246	" 6	eP	4	01	30.6					6700	Sea off Palao Is.
		iP	4	01	44.2						
		RP	4	02	30.7						
		L	4	09	44.3						
		MN	4	10	20.5	23.0		-269			
		F	4	37	06—						
247	" 6	eP	11	01	50.3					723	Near Taito in Taiwan.
		eS	11	03	09.6						
		F	11	09	50—						
248	" 7	e	3	28	13.0						Near Kosyun in Taiwan.
		F	3	32	51—						
249	" 9	P(z)	17	14	10.5					281	Sea off the Ensyu-nada. (deep focus)
		S	17	14	48.3						
		ME	17	14	52.2	2.9	+12				
		MN	17	14	57.8	2.7		±13			
		F	17	20	24—						
250	" 10	eP	2	24	23.2					403	Sea off Hatizyo Is.
		eS	2	25	17.4						
		F	2	28	29—						
251	" 10	P	10	02	34.7					46	The lower course of the river Kiso.
		S	10	02	40.9						
		ME	10	02	41.3	0.3	-13				
		MN	10	02	41.2	0.3		+16			
		F	10	05	43—						
252	" 11	eP	0	00	46.7					26	Near Gihu city.
		S	0	00	50.2						
		F	0	02	51—						
253	" 13	eP	20	32	18.4						A distant earthquake.
		ME	21	46	47.1	16.1	+61				
		F	22	14	02—						



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		
254	July 14	eP	7 27 02.5					317	φ141.3°E, 136.3°N. In the Kasima-nada. Slight shock was felt at E. part of Kwanto district.
		S	7 27 45.1						
		F	7 31 32-						
255	" 15	eP	5 50 51.0					401	Ditto.
		S	5 51 45.0						
		M _N	5 51 54.4	2.3		-6			
		F	5 56 58-						
256	" 15	P	10 55 50.1					414	Ditto. The shock were felt at E. part of Kwanto and SE. part of Tohoku districts.
		S	10 56 45.9						
		M _N	10 57 06.8	2.8		-164			
		M _Z	10 57 07.7	2.8		+21			
		M _{F1}	10 57 08.8	2.6	+73				
		M _{F2}	10 57 33.7	2.6	+70				
		F	11 08 57-						
257	" 15	eP	11 13 24.9					45	The lower course of the river Kiso.
		S	11 13 30.9						
		M _E	11 13 31.1	0.1<		-7			
		M _N	11 13 31.1	0.1<		-16			
		F	11 15 48-						
258	" 15	eP	20 51 57.0					316	S. sea off Hatizyo Is.
		eS	20 52 39.5						
		F	21 03 19-						
259	" 16	eP	13 08 12.2					343	Near Mt. Tukuba.
		S	13 08 58.4						
		F	13 11 58-						
260	" 16	eP	20 36 17.8					345?	Sea off Amami Osima Is.
		S	20 36 50.8						
		F	20 39 08-						
261	" 18	eP	1 56 42.1					302	In the Kasima-nada.
		S	1 57 22.7						
		F	2 01 00-						
262	" 18	e	3 01 21.2						N. part of the Nagano pref.
		F	3 03 35-						



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.	
263	July 19	eP	0	07	19.3					245	Near Mt. Tanzawayama.
		S	0	07	52.3						
		F	0	11	08—						
264	" 19	eP	2	49	40.8					342	φ141.5°E, 37.4°N. Sea off Iwaki. The shock were felt at Tohoku and NE. part of Kwanto districts.
		S	2	50	26.9						
		ME ₁	2	50	40.3	2.9	+27				
		MZ ₁	2	51	00.1	2.1			+9		
		ME ₂	2	51	01.4	2.2	+36				
		MZ ₂	2	51	02.1	2.1			-4		
		MN ₁	2	51	08.7	2.7		+39			
		MN ₂	2	51	12.1	2.4		-39			
265	" 20	eP	11	07	15.1					293	Near the mouth of the river Kuzi in Ibaraki pref.
		S	11	07	54.7						
		F	11	12	25—						
266	" 22	eP	15	01	40.7					317	Sea off Noto peninsula.
		S	15	02	23.4						
		F	15	05	32.0						
267	" 23	e	5	48	44.1						The lower course of the river Niikappu in Hokkaido.
		F	5	54	24—						
268	" 23	eP	16	06	56.4					600	E. sea off Hatizyo Is.
		S	16	08	02.5						
		F	16	16	44—						
269	" 25	eP	5	39	34.1					182	The course of the river Arita in Wakayama pref.
		S	5	39	58.6						
		F	5	42	39—						
270	" 26	eP	8	51	41.3					234	Mt. Asama.
		S	8	52	12.9						
		F	8	56	18—						
271	" 26	eP	14	45	23.1					372	In the Bungo-strait.
		S	14	46	13.3						
		F	14	50	29—						
272	" 26	eP	16	34	44.2					275	Mt. Asama.
		S	16	35	21.2						
		F	16	37	28—						



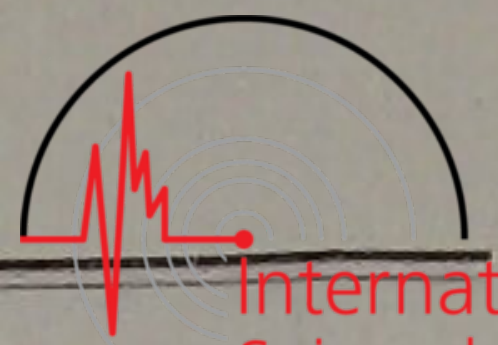
No.	Date.	Phase.	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
273	July 26	eP	16 56 48.2					640	Epicentre unknown.
		S	16 57 58.3						
		F	17 07 15—						
274	" 27	eP	1 10 29.3						Mt. Asama.
		S	1 10 33.2						
		F	1 11 27—						
275	" 28	e	5 10 01.3						Near Miyazu.
		F	5 13 32—						
276	" 28	eP	14 25 38.8						A distant shock.
		S	14 27 25.5						
		F	14 34 26—						
277	" 28	eP	17 00 04.2				780		Epicentre unknown.
		eS	17 01 29.4						
		F	17 09 26—						
278	" 29	eP	9 10 36.9				710?		Mt. Asama.
		S	9 11 54.6						
		F	9 15 14—						
279	" 29	eP	15 17 01.9				560		Epicentre unknown.
		S	15 18 04.1						
		F	15 21 15—						
280	" 31	eP	3 17 32.4						A distant shock.
		S	3 18 59.2						
		F	3 24 35—						
281	" 31	eP	17 15 31.0				187		Near the mouth of the river Sagami.
		S	17 15 56.2						
		F	17 18 16—						
282	" 31	e	22 06 25.9						Faint record. Epicentre unknown.
		F	22 08 40—						
283	Aug. 1	eP	15 30 01.3				1690		A distant earthquake.
		S	15 32 56.6						
		L	15 38 20.3						
		F	covered						



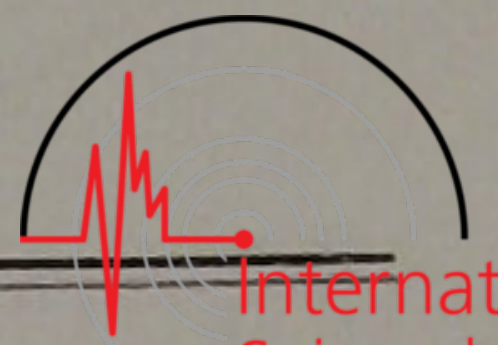
No.	Date	Phase	Time 135°E M O. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
			h m s	s	μ	μ	μ	km.	
284	Aug. 3	eP	16 59 10.9					444	E. sea off Siويا-cape.
		eS	17 00 10.7						
		F	17 03 2 -						
285	" 4	e	13 19 23.6						Near Simozu in Wakayama pref.
		F	13 21 12-						
286	" 4	eP	18 28 29.4					840	NW. sea off Titizima Is.
		S	18 30 00.3						
		F	18 36 20 -						
287	" 4	eP	23 14 25.8						In the Bashee channel.
		S?	23 15 40.9						
		F	23 24 04-						
288	" 7	eP	4 20 04.3					50?	Mt. Asama.
		S	4 20 11.1						
		F	4 22 04-						
289	" 8	eP	3 02 23.4					700	Sea off Miyako.
		eS	3 03 40.7						
		F	3 06 52-						
290	" 8	e	15 56 19.1						Sea off Hatizyo Is.
		F	15 59 21-						
291	" 9	eP	20 47 52.2					240	Near Gero in Gihu pref.
		S	20 48 24.5						
		F	20 50 07-						
292	" 10	eP	0 46 10.4					62	Near Gihu city.
		S	0 46 18.7						
		F	0 47 14-						
293	" 10	P	1 11 51.9					550?	In the Bashee channel.
		eS?	1 12 52.6						
		F	1 20 09 -						
294	" 13	P	10 52 16.4					396	φ140.3°E, λ36.2°N. E. foot of Mt. Tukuba. A slight shock was felt near the center.
		S	10 53 09.8						
		F	10 58 04-						



No.	Date	Phase	Time 135°E M. C. T h m s	Period s	Amplitude			△ Epicentre- distance km.	Remarks
					AE	AN	Az		
295	Aug. 13	eP	21 42 12.6		μ	μ	μ	183	Near Wakayama city.
		S	21 42 37.3						
		F	21 47 10—						
296	" 14	eP	5 08 34.7					3840	A distant earthquake.
		L	5 14 12.6						
		F	5 43 34—						
297	" 14	e	17 17 57.0						SE, sea off Katuura.
		F	17 20 23—						
298	" 15	P	13 04 50.8					85	Near Bo in Siga pref.
		S	13 05 02.3						
		F	13 06 12—						
299	" 15	e	23 58 14.0						Near Turuga tarm of city. (faint record)
		F	23 59 27—						
300	" 18	e	0 22 15.2						A local shock. Near Nagoya city.
		F	0 24 21—						
301	" 19	e	22 07 28.9						Ditto.
		F	22 09 15—						
302	" 19	P	22 17 17.5					49	A local shock near Gamagohu in Aiti pref.
		S	22 17 24.1						
		F	22 20 14—						
303	" 20	eP	20 58 59.6					810?	S. part of the Kii-strait.
		S	21 00 27.7						
		F	21 04 26—						
304	" 22	eP	0 11 06.5					244	Sea off Hatizyo Is.
		S	0 11 39.3						
		F	0 14 07—						
305	" 22	eP	3 56 07.9					198	Central of Honsyu.
		S	3 56 34.6						
		F	3 58 24—						
306	" 22	P	15 55 58.0					2187	∅121.2°E, 22.1°N. S. sea off Taito. Moderate shock was felt at S. part of Taiwan.
		L	15 59 37.1						
		F	16 43 10—						



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.	
307	Aug. 22	eP	20 13 41.3	2.5				562?	S. sea off Taito.
		S	20 14 43.5						
		M _N	20 15 06.6						
		F	20 24 20-						
308	" 24	P	6 20 56.8	20.6				10173	A distant earthquake. Near Sumatra Is.
		eL	6 32 02.9						
		M _N	6 40 31.5						
		M _E	6 45 13.1						
		F	7 06 21-						
309	" 24	eP	7 46 17.3					317	Sea off Hatizyo Is.
		S	7 47 00.0						
		F	7 52 11-						
310	" 25	eP	9 34 51.6					1481	Near Kosyun.
		S	9 37 26.7						
		F	9 46 06-						
311	" 25	eP	18 23 18.5					274?	Near Saizyo in Hirosima pref.
		S	18 23 55.4						
		F	18 26 09-						
312	" 25	eP	21 13 41.5					238	In the Uruga-strait.
		S	21 14 13.5						
		F	21 16 17-						
313	" 26	e	0 01 32.0						A local shock. Near Nagoya city.
		F	0 03 01-						
314	" 26	e	7 50 33.6						Ditto. Faint record.
		F	7 52 32-						
315	" 26	eP	10 12 28.5					256	Epicentre unknown.
		S	10 13 03.0						
		F	10 15 11-						
316	" 26	eP	20 38 21.1					559	E. sea off Hokkaido.
		S	20 39 23.0						
		F	covered						
317	" 26	eP	covered						Ditto.
		S	20 41 24.0						
		F	20 47 18-						



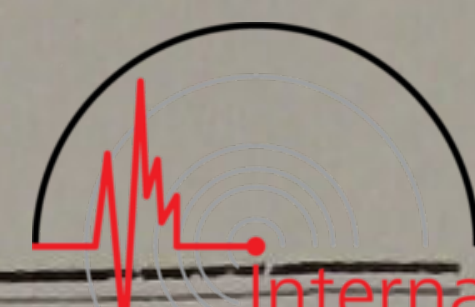
No.	Date.	Phase.	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance	Remarks
							AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
318	Aug. 27	e	12	13	24.6						A local shock. Near Nagoya city.
		F	12	16	59-						
319	" 27	e	14	35	58.1						Near Tyosi.
		F	14	38	14-						
320	" 28	eP	10	37	14.1					220	S. part of the Kii-strait.
		S	10	37	43.7						
		F	10	40	59-						
321	" 28	e	15	47	12.5						Mt. Asama.
		F	15	51	58-						
322	" 31	e	6	37	24.4						Near Nagoya city.
		F	6	40	23-						
323	" 31	eP	16	15	24.2					415	In the Kasima-nada.
		S	16	16	20.1						
		F	16	22	04-						
324	Sept. 1	e	0	47	21.4						Epicentre unknown.
		F	0	52	19-						
325	" 1	eP	2	19	12.8					191?	Near Waki in Tokushima pref.
		S	2	19	38.4						
		F	2	26	19-						
326	" 2	P	14	03	13.9					42	Near the mouth of the river Kiso. A Slight shock was felt at Nagoya.
		S	14	03	19.6						
		MN	14	03	20.1	0.9		-70			
		ME	14	03	20.5	0.9	-33				
		MZ	14	03	20.0	0.9			+9		
		F	14	13	18-						
327	" 2	P	18	19	17.1					1528	NE. sea off Etorohu Is.
		S	18	21	56.9						
		F	18	29	30-						
328	" 2	eP	18	43	28.5					33	Near Nagoya city.
		S	18	43	32.9						
		F	18	45	33-						
329	" 2	e	23	37	19.6						Near Siga in Wakayama pref.
		F	23	39	08-						



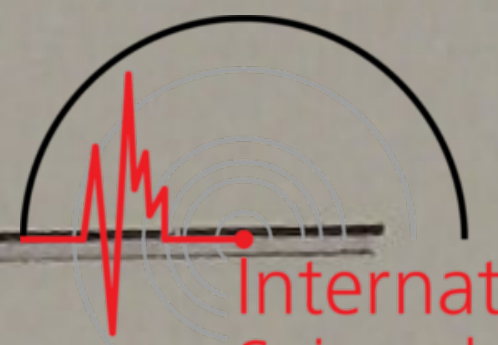
No.	Date	Phase	Time 135° E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
330	Sept. 3	eP	6 30 36.9					241	Near Mt. Tukuba.
		S	6 31 09.3						
		F	6 34 26—						
331	" 3	eP	23 55 37.2					638	SE. sea off Boso peninsula.
		S	23 56 47.0						
		F	0 02 29—						
332	" 4	P	1 15 35.1	2.6	±7			823	Ditto.
		S	1 17 04.4						
		ME	1 17 06.0						
		F	1 23 22—						
333	" 4	eP	4 53 14.4	2.4				667	E. sea off Hatizyo Is.
		S	4 54 27.1						
		MN	4 54 50.7						
		F	5 05 23—						
334	" 4	eP	6 23 12.2					803	Ditto.
		S?	6 24 39.5						
		F	6 28 40—						
335	" 4	eP	6 31 06.4					35	Ditto.
		S	6 32 36.9						
		F	6 39 38—						
336	" 4	eP	17 11 04.7	11.7					SE. sea off Hatizyo Is.
		L	17 16 44.1						
		MN	17 20 21.5						
		ME	17 20 57.0						
		F	18 03 27—						
337	" 4	eP	19 46 45.2					226	E. sea off Sioya cape.
		S	19 47 15.6						
		F	19 51 43—						
338	" 5	eP	3 14 33.2					106	The lower course of the river Arita in Wakayama pref.
		S	3 14 47.5						
		F	3 19 32—						
339	" 6	e	2 34 38.5						Epicentre unknown.
		F	2 43 35—						



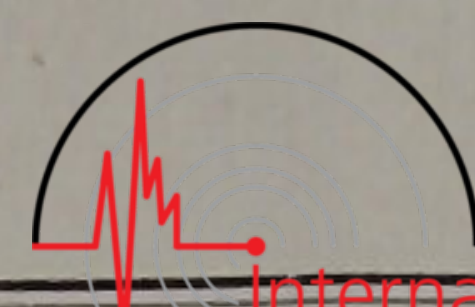
No.	Date	Phase	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance	Remarks
							AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
340	Sept. 6	eP	10	30	16.7					163	N. part of Nagano pref.
		S	10	30	38.6						
		F	10	33	36—						
341	" 6	eP	10	46	52.5					177	Near Hinomisaki in Wakayama pref.
		S	10	47	16.3						
		F	10	51	14—						
342	" 6	eP	13	36	34.0					194	Ditto.
		S	13	37	00.1						
		F	13	42	07—						
343	" 7	e	1	51	45.4						A local shock. Near Nagoya city.
		F	1	54	12—						
344	" 7	e	21	36	37.4						A distant shock.
		F	21	45	14—						
345	" 8	P	7	02	05.1					79	The upper course of the river Takatoki in Gihu pref.
		S	7	02	15.7						
		ME	7	02	18.6	0.6	+10				
		MN	7	02	20.1	0.8		+7			
		F	7	08	16—						
346	" 8	eP	8	33	06.5					663	SE. sea off Boso peninsula.
		S	8	34	18.8						
		F	8	39	47—						
347	" 8	eP	8	57	12.2					785	NE. sea off Kuji in Iwate pref.
		S	8	58	37.7						
		F	9	03	14—						
348	" 8	eP	9	24	18.2					724	φ141.6°E, λ37.5°N. E. sea off the mouth of the river Uketo in Hukusima pref. The shock were felt at Tohoku and NE. part of Kwanto districts.
		S	9	25	37.6						
		F	9	30	12—						
349	" 8	e	9	38	39.9						NE. sea off Sioya cape.
		F	9	44	22—						
350	" 8	eP	11	42	41.8					279	S. sea off Inubo cape.
		S	11	43	19.3						
		ME	11	44	08.7	1.5	+10				
		MN	11	44	12.8	2.3		-11			
		F	11	53	25—						



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.	
351	Sept. 8	eP	16 36 03.2					116	The lower course of the river Hidaka in Wakayama pref.
		S	16 36 18.9						
		F	16 40 11—						
352	" 8	e	16 48 17.0						Ditto.
		F	16 50 40—						
353	" 8	e	23 18 13.3						Sea off Okinawa Is.
		F	23 22 36—						
354	" 9	eP	4 02 37.8					404	In the Kasima-nada.
		S	4 03 32.2						
		F	4 08 20—						
355	" 9	eP	11 52 20.6					4289	A distant earthquake.
		S	11 58 24.2						
		F	12 10 23—						
356	" 10	e	5 13 49.6						Near Iiyama in Nagano pref.
		F	5 16 19—						
357	" 11	P	14 20 25.7					297	In the Kumano-nada.
		S	14 21 05.7						
		F	14 28 21—						
358	" 12	eP	19 57 55.9					384	In the Kuzyukuri-hama.
		S	19 58 47.7						
		MN	19 59 10.7	2.6		-35			
		ME	19 59 22.7	2.6	+38				
		F	20 10 43—						
359	" 13	eP	3 03 16.4					5229?	Near Taiko in Taiwan.
		S	3 10 11.1						
		F	3 20 42—						
360	" 14	eP	9 24 16.1					389	E. sea off the mouth of the river Uketo in Hukusima pref.
		S	9 25 08.5						
		ME	9 25 22.4	1.9		-10			
		MN	9 25 23.3	2.3		+13			
		F	9 33 22—						
361	" 14	eP	10 23 04.9					294	Sea off Sioya cape.
		S	10 23 44.6						
		F	10 28 05—						



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.	
362	Sept. 14	e	15 59 09.6						Near Ookura in Yamagata pref.
		F	16 02 12—						
363	" 15	P	14 35 30.9					39	Near Gihu city.
		S	14 35 36.1						
		ME	14 35 47.8						
		F	14 40 00—						
364	" 15	e	22 16 56.1						A local shock?
		F	22 20 17—						
365	" 15	eP	23 31 42.7					93	Near Gihu city.
		S	23 31 55.2						
		F	23 34 13—						
366	" 16	eP	14 16 15.4					341	Sea off Sioya cape.
		S	14 17 01.4						
		F	14 21 43—						
367	" 16	eP	19 32 31.1					267?	Ditto
		S	19 33 07.1						
		F	19 36 35—						
368	" 18	P	3 28 19.3					180	In the Kasima-nada.
		S	3 28 43.5						
		F	3 30 41—						
369	" 18	P	8 44 22.2					287	Sea off Sima peninsula. (deep focus)
		S	8 45 00.8						
		F	8 49 29—						
370	" 18	P	17 29 51.5					1013	Near Urakawa in Hokkaido. (deep focus)
		S	17 31 40.8						
		F	17 42 30—						
371	" 18	eP	23 23 13.1					236	Near Gobo in Wakayama pref.
		S	23 23 44.9						
		F	23 28 02—						
372	" 19	eP	3 39 58.5					1102	SE. sea off Hatizyo Is.
		S	3 41 56.7						
		MN	3 48 58.8	8.3		±53			
		ME	3 49 32.4	8.5		-46			
		F	4 24 22—						



No.	Date	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			u m s	s	μ	μ	μ	km.	
373	Sept. 19	P	10 10 28.1					9326	A distant earthquake. Near Sumatra Is.
		L	10 20 54.9						
		MN	10 28 31.8	21.4		+560			
		ME	10 28 59.0	26.0	±381				
		F	11 09 31—						
374	" 19	eP	15 38 56.7				916	A distant earthquake.	
		S	15 40 36.3						
		F	15 47 31—						
375	" 19	e	17 30 01.6					Near Mt. Tukuba.	
		F	17 33 23—						
376	" 19	eP	18 16 37.1				560?	Mt. Asama.	
		S	18 17 39.1						
		F	18 22 33—						
377	" 20	eP	15 06 58.4				286?	Near Miyako.	
		S	15 07 36.9						
		F	15 13 35—						
378	" 20	eP	19 21 56.8				433	NE. sea off Hatizyo Is.	
		S	19 22 55.2						
		F	19 29 33—						
379	" 23	eP	18 18 02.3				101	Near Oiwake in Nagano prif.	
		eS	18 18 15.9						
		F	18 20 40—						
380	" 24	eP	4 37 09.1				321	Sea off Inubo cape.	
		S	4 37 52.4						
		MN	4 38 13.4	2.1		-12			
		F	4 48 25—						
381	" 25	eP	14 41 38.1				860	In the Kasima-nada.	
		eS	14 43 11.3						
		F	14 48 30—						
382	" 25	eP	15 49 09.2				305	Ditto.	
		eS	15 49 50.3						
		F	15 57 13—						

No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
383	Sept. 26	eP	6 16 19.3		μ	μ	μ	Near Sisikui in Tokushima pref.	
		S?	6 16 41.9						
		F	6 21 32—						
384	" 27	eP	5 42 21.5				42	Near Nagoya city.	
		S	5 42 27.2						
		MN	5 42 27.3	0.1<		-7			
		ME	5 42 27.9	0.1<	±5				
		F	5 44 02—						
385	" 27	eP	22 03 26.2				294?	In the Kasima-nada.	
		S?	22 04 05.9						
		ME	22 05 09.3	2.1	-11				
		MN	22 05 09.4	2.1		+17			
		F	22 13 12—						
386	" 30	eP(?)	12 44 52.6				364	Near Torite in Ibaraki pref.	
		S	12 45 41.6						
		ME	12 45 45.2	1.2	-27				
		MN	12 45 52.3	2.0		+53			
		Mz	12 46 07.7	1.4			-11		
		F	12 57 22—						
387	Oct. 4	eP	6 57 18.7				9112	A distant earthquake.	
		eL	7 07 34.8						
		F	7 31 26—						
388	" 5	e	9 05 33.3					Ditto.	
		F	9 15 21—						
389	" 5	eP	14 30 42.9				706	Near Ozuti in Iwate pref.	
		S	14 32 00.5						
		F	14 37 53—						
390	" 5	eP	15 37 48.9				32	Near Kitagata in Gifu pref.	
		S	15 37 53.2						
		F	15 39 56—						
391	" 5	eP	16 11 44.8				679	SF. sea off Hatizyo Is.	
		S	16 12 58.7						
		F	16 26 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.	
392	Oct 5	eP L F	18 51 50.4 18 59 10.3 19 41 47—					5698	A distant earthquake.
393	" 6	eP S F	5 22 15.6 5 23 05.1 5 28 36—					368	Sea off Sioya cape.
394	" 6	P S F	23 27 31.1 23 27 53.9 23 32 44—					169	The lower course of the river Kano in Sizuoka pref.
395	" 7	P S F	4 00 41.9 4 00 50.0 4 03 02—					60	Near Hamamatu city.
396	" 7	eP S F	12 49 37.9 12 49 51.0 12 51 27—					97	Near Hikone.
397	" 7	e F	13 20 33.4 13 26 32—						Epicentre unknown.
398	" 8	eP S F	15 24 29.3 15 24 50.1 15 26 55—					154	The lower course of the river Arita in Wakayama pref.
399	" 8	eP S F	20 55 51.4 20 56 06.1 20 58 41—					109	S. part of Nara pref.
400	" 9	eP S MN ME F	5 28 38.9 5 29 21.9 5 29 54.4 5 29 55.4 5 36 45—					319	φ140.8°E, λ35.2N. E. sea off Katuura. A shock was felt at a part of Kwanto district.
401	" 9	eP S F	9 04 27.4 9 05 37.0 9 11 39—						Near Hinomisaki in Wakayama pref.



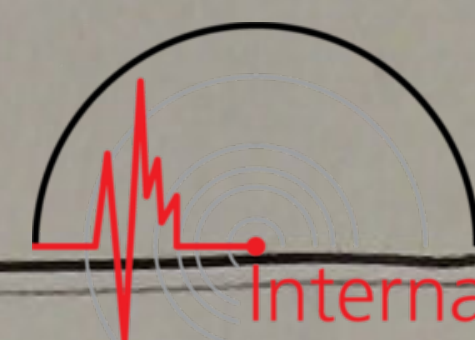
No.	Date	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks		
					AE	AN	AZ				
402	Oct. 9	eP	h m s 10 16 48.0	s	μ	μ	μ	km. 232	Near Simozuma in Ibaraki pref.		
		S	10 17 19.3								
		MN	10 17 26.9							12.6	
		ME	10 17 27.1							10.4	+5
		F	10 22 47—								
403	" 10	eP	2 47 05.5				886	SE. sea off Nozima cape.			
		S	2 48 42.1								
		F	2 54 45—								
404	" 10	eP	12 25 39.3				420	In the Kasima-nada.			
		S	12 26 35.8								
		F	12 30 17—								
405	" 11	eP	3 33 17.9				182	Near the mouth of the river Hidaka in Wakayama pref.			
		eS	3 33 42.4								
		F	3 34 57—								
406	" 13	e	15 39 21.2					A distant shock.			
		F	15 42 34—								
407	" 15	eP	7 25 52.6				342	Mt. Asama.			
		eS	7 26 38.7								
		F	7 28 54—								
408	" 15	eP	13 21 00.7				407	Near Matuyama city.			
		S	13 21 55.5								
		F	13 28 31—								
409	" 17	eP	4 49 28.9				339	In the Kasima-nada.			
		S	4 50 14.6								
		F	4 54 47—								
410	" 18	eP	5 33 37.1				216?	Sea off Imaharu city.			
		S	5 34 06.2								
		F	5 38 26—								
411	" 18	eP	9 49 31.8				384	Sea off the mouth of the river Abukuma.			
		S	9 50 23.6								
		F	9 53 36—								
412	" 18	eP	14 21 27.5				184	Near Syobu in Saitama pref.			
		S	14 21 52.3								
		F	14 24 58—								



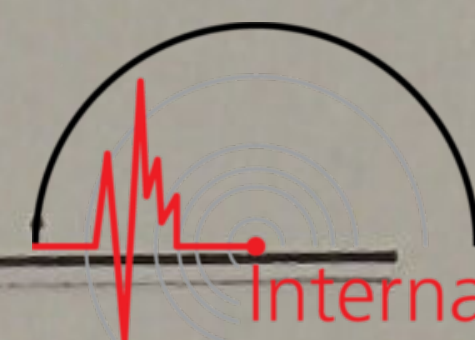
No.	Date	Phase	Time 135° E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
413	Oct 19	eP	4 47 21.3					58	Near Hatiman in Gihu pref.
		S	4 47 29.0						
		F	4 50 30—						
414	" 19	P	21 11 44.0					4085	A distant earthquake.
		S	21 17 35.9						
		F	21 36 44—						
415	" 20	P	4 36 43.8					59	A local shock. Near Nagoya city.
		S	4 36 51.7						
		F	4 39 29—						
416	" 20	P	4 56 53.4					308	φ135.8°E, λ36.5°N. Sea off the mouth of the river Kuzuryu. (deep focus)
		S	4 57 35.0						
		ME	4 57 36.3	3.3	+44				
		MN	4 57 36.3	1.7		-53			
		F	5 06 28—						
417	" 20	iP	23 24 01.2		-5	+5	+22	105	φ138.2°E, λ35.0°N. Central part of Sizuoka pref. The shock were felt at Tyubu, Kwanto and Kinki districts.
		iS	23 24 15.4						
		MN	23 24 15.7	0.1<		-582			
		ME	23 24 19.9	0.1<	+992				
		Mz	23 24 34.7	0.1<		+520			
		F	23 31 54—						
418	" 21	P	3 17 26.7					119	An after shock.
		S	3 17 42.7						
		F	3 21 37—						
419	" 21	eP	4 04 36.5					11	A local shock. Near Nagoya city.
		S	4 04 38.0						
		F	4 05 28—						
420	" 23	e	15 33 21.5						A distant shock.
		F	15 38 52—						
421	" 24	eP	17 09 10.4					271	Near Sanrizuka in Tiba pref.
		S	17 09 47.0						
		F	17 14 36—						
422	" 25	eP	1 03 13.0					580	SE. sea off Hatizyo Is.
		S	1 04 17.1						
		F	1 12 37—						



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.	
423	Oct. 25	eP	13	13	40.6					359	Near Mikurazima Is.
		S	13	14	29.0						
		F	13	20	51-						
424	" 25	P	13	59	25.0					305	Ditto.
		S	14	00	06.1						
		ME ₁	14	00	06.8		-42				
		ME ₂	14	00	12.5		-42				
		MN	14	00	32.1			-50			
		F	14	09	41-						
425	" 26	iP	0	31	10.0		-51	+25	+30	187	φ140.1°E, 34.4°N. SSE. sea off Nozima cape. The shock were felt at Kwanto, E. part of Tyubu, and S. part of Tohoku districts.
		S	0	31	35.2						
		MN	0	31	53.2	-		+563	.		
		ME	0	32	13.5	-	-315				
		Mz	0	32	15.0	1.8			-167		
		F	0	48	47-						
426	" 26	iP	18	34	18.9		-9	-5	-22	268	φ136.3°E, 34.5°N. Central of Mie pref. (deep focus). Slight shock were felt at a part of Kwanto and Tohoku districts.
		iS	18	34	55.1						
		ME	18	34	58.7	3.0	-352				
		Mz	18	35	21.9	1.4			-33		
		MN	18	37	27.3	2.7		+128			
		F	18	47	34-						
427	" 28	eP	1	26	09.2					141	Near Tanimura in Yamanasi pref.
		S	1	26	28.1						
		F	1	28	43-						
428	" 28	P	14	20	43.4					52	Near Toyotomi in Aiti pref.
		S	14	20	50.4						
		F	14	24	55-						
429	" 30	eP	3	43	52.7					2575	A distant earthquake.
		eS	3	48	03.4						
		F	4	16	09-						
430	" 30	eP	15	29	27.8					304	In the Kumano nada.
		S	15	30	08.8						
		F	15	36	51-						
431	" 30	eP	21	12	53.4					202	E. part of Kagawa pref.
		S	21	13	20.7						
		F	21	16	55-						



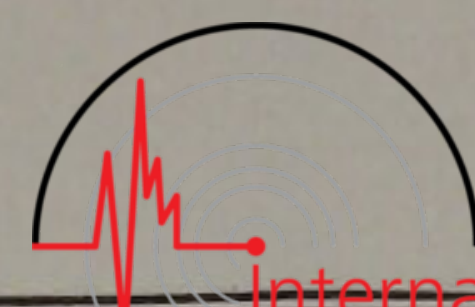
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
432	Oct. 31	eP	2 19 28.7					412	Epicentre unknown.
		eS	2 20 24.3						
		F	2 22 36—						
433	Nov. 2	eP	2 54 10.7						Near Wakamatu city in Huku- sima pref.
		S?	2 55 04.8						
		F	2 57 59—						
434	" 3	P	0 01 56.2					2862	A distant earthquake.
		L	0 06 29.3						
		ME	0 09 41.4	18.9	-154				
		MN	0 12 26.2	12.7		-122			
		F	1 01 44—						
435	" 3	eP	5 47 18.8					437	φ142 9°E, λ38.4°N. E. sea off Kinkwazan. Slight shock were felt at Miyagi and Hukusima pref. Moderate shock were felt at SE. part of Tohoku and N. part of Kwanto districts.
		iP	5 47 20.1		-64	-68	+122		
		S	5 48 19.0						
		ME ₁	5 48 30.9	3.2	+4850				
		Mz	5 48 37.9	3.2			±3000		
		ME ₂	5 48 41.3	3.2	+5650				
		MN	5 48 41.8	3.2		-8900			
F	7 33 41—								
436	" 3	eP	7 45 00.4					391	An after shock.
		S	7 45 53.0						
		MN	7 46 48.5	2.8		+13			
		F	7 53 00—						
437	" 5	eP	16 38 45.6					848	Near Titizima Is.
		S	16 40 17.4						
		F	16 47 52—						
438	" 7	eP	8 57 15.1					760	Near Sendai city.
		S	8 58 38.1						
		ME	8 59 11.0	2.5	-8				
		F	9 03 53—						
439	" 7	eP	14 28 54.5					642	NE. sea off Kinkwazan.
		S	14 30 04.7						
		F	14 34 12.0						
440	" 8	eP	2 13 11.4					377	Near Mt. Tukuba.
		S	2 14 02.2						
		F	2 15 51—						



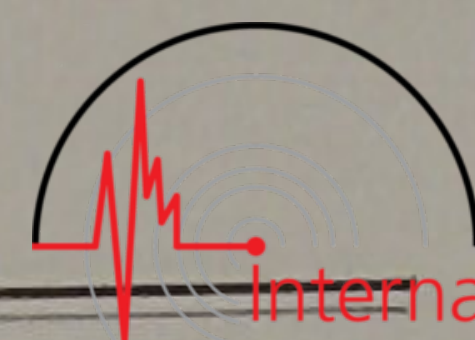
No.	Date.	Phase.	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance	Remarks
							AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
441	Nov. 8	eP	15	34	08.9					408	ϕ(41.3°E, 236.7°N. In the Kasima-nada. Slight shock was felt at the center.
		Sz	15	35	03.9						
		Mz	15	35	26.7	1.3			+15		
		ME	15	35	28.3	2.1	-29				
		MN	15	35	31.2	1.8		+38			
		F	15	40	28-						
442	" 8	eP	18	21	25.3					812	E. sea off Kinkwazan.
		S	18	22	53.5						
		MN	18	22	56.6	2.5		+12			
		F	18	25	57-						
443	" 8	eP	22	09	06.6					15	A local shock. Near Nagoya city.
		S	22	09	08.9						
		F	22	09	58-						
444	" 9	eP	15	09	59.4					1438	SE. sea off Yakusima Is.
		S?	15	12	30.2						
		F	15	19	26-						
445	" 10	Pz	15	36	31.2					59	The upper course of the river Yahagi. Slight shock was felt at a part of Aiti pref.
		PE	15	36	32.0						
		Sz	15	36	37.6						
		Mz	15	36	38.3	0.1<			+27		
		SE	15	36	40.0						
		ME	15	36	40.3	0.1<	-103				
		MN	15	36	44.6	0.1<		+48			
F	15	41	00-								
446	" 11	eP	0	18	26.2					430	S. sea off Kinkwazan.
		S	0	19	24.2						
		ME	0	19	53.0	2.3	+12				
		F	0	24	46-						
447	" 11	eP	18	49	50.8					304?	SE. sea off Kinkwazan.
		eS	18	50	31.7						
		F	18	56	50-						
448	" 12	eP	11	20	16.6					2100	A distant earthquake. Near Marianne Is.
		S	11	23	49.8						
		F	11	38	45-						

No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre distance	Remarks		
					AE	AN	Az				
449	Nov. 12	eP	h m s 15 28 50.0		μ	μ	μ	346	Near Onomiti city.		
		S	15 29 36.7								
		F	15 37 07—								
450	" 12	eP	17 33 24.3					2575	A distant earthquake. Near Marianne Is.		
		eS	17 37 35.3								
		F	17 46 48—								
451	" 13	eP	5 07 52.2					1550	φ149.0°E, λ45.0°N. Near Etrohu Is. (deep focus).		
		S	5 10 34.6								
		F	5 20 58—								
452	" 13	P	21 37 15.6					6940	A distant earthquake. Near Kamtchaka.		
		L	21 45 42.0								
		M _E	21 51 52.4							13.0	-262
		M _N	21 52 06.0							14.1	+287
		F	23 07 58—								
453	" 14	eP	9 59 30.0					690	φ142.5°E, λ38.1°N. SE. sea off Kinkwazan. Slight shock were felt at Aizu and Hukusima.		
		S	10 00 45.6								
		M _Z	10 01 10.7							2.3	-29
		M _N	10 01 20.9							2.6	-224
		M _E	10 01 22.7							2.9	+116
		F	10 14 11—								
454	" 14	e	10 27 55.3						Near Miyazaki city.		
		F	10 34 54—								
455	" 14	e	23 35 44.7						Near Mizusawa in Iwate pref.		
		F	23 40 06—								
456	" 15	eP	3 33 47.1					393	E. sea off Sioya cape.		
		S	3 34 40.1								
		F	3 38 17—								
457	" 15	eP	22 02 53.4					690	SE. sea off Kinkwazan.		
		S	22 04 09.4								
		F	22 09 10—								
458	" 15	eP	23 29 49.6					401	Sea off Inubo cape.		
		eS	23 30 43.6								
		F	23 34 15—								

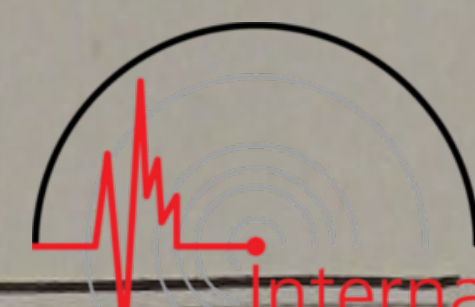
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
459	Nov. 16	eP	12 23 59.6					550	Sea off Kinkwazan.
		eS	12 25 00.8						
		F	covered						
460	" 16	eP	12 27 27.3					376	Sea off the mouth of the river Uketo in Hukusima pref.
		eS	12 28 18.0						
		F	12 32 01—						
461	" 16	eP	14 32 26.5						A local shock. Near Nagoya city.
		eS?	14 32 43.3						
		F	14 33 33—						
462	" 16	eP	17 28 44.3					134	Near Hinomisaki in Wakayama pref.
		eS	17 29 02.3						
		F	17 30 14—						
463	" 17	eP	0 52 02.2					445	SSE. sea off Kinkwazan.
		eS	0 53 02.2						
		F	0 57 10—						
464	" 17	eP	1 48 50.5					105	In the Kii-strait.
		S	1 49 04.6						
		F	1 49 55—						
465	" 17	P	3 26 08.5					268	SW. part of Ibaraki pref
		eS	3 26 44.6						
		F	3 28 17.2						
466	" 17	eP	8 32 57.6					3840	A distant earthquake.
		L?	8 38 35.4						
		F	8 56 08—						
467	" 18	eP	4 55 17.6					423	φ141.7° E, 38.3° N. E. sea off Kinkwazan. The shock were felt at Tohoku and N. part of Kwanto districts.
		S	4 56 14.6						
		F	5 03 13—						
468	" 18	eP	23 00 16.1					371	Near Mikkaido in Ibaraki pref.
		eS	23 01 06.1						
		F	23 03 10—						
469	" 19	eP	22 12 08.5					357	E. sea off Sioya cape.
		eS	22 12 56.7						
		F	22 19 59—						



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.	
470	Nov. 19	P	22 57 29.3					174	ϕ139.0°E, λ35.6°N. E. part of Yamanasi pref. Moderate shock was felt near the center.
		S	22 57 52.7						
		M _N	22 58 02.1	—		+166			
		M _E	22 58 16.2	—	+112				
		M _Z	22 58 25.2	1.4			±49		
		F	23 12 30—						
471	" 22	P	6 48 16.8					398	ϕ141.6°E, λ38°N. SE. sea off Kinkwazan. The shock were felt at Tohoku and N. part of Kwanto districts.
		S	6 50 10.4						
		M _N	6 50 34.8	3.2		—79			
		M _E	6 50 44.9	2.6	—49				
		M _Z	6 50 47.7	1.9			—15		
		F	7 00 56—						
472	" 25	eP	4 39 02.8					440	Sea off Hatizyo Is.
		S	4 40 02.1						
		F	4 44 06—						
473	" 25	eP	10 06 01.3					147	Near Mt. Koya.
		S	10 06 21.1						
		M _E	10 06 23.1	—	+49				
		M _N	10 06 24.9	—		+37			
		F	10 11 00—						
474	" 25	eP	19 56 18.4					414	Near Inubo cape.
		S	19 57 14.2						
		M _N	19 57 24.6	2.6		+9			
		F	20 01 45—						
475	" 25	eP	20 46 45.2					1333	ESE. sea off Nosyahu cape.
		S	20 49 06.5						
		F	20 56 59—						
476	" 25	eP	23 25 21.7					99	Near Kamiikeda in Hukui pref.
		S	23 25 35.0						
		F	23 27 58—						
477	" 26	e	17 51 51.0						A local shock Near Nagoya city.
		F	17 57 08—						
478	" 26	eP	18 22 50.5					29	A local shock?
		S	18 22 54.4						
		F	18 24 58—						



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.	
479	Nov. 27	eP?	0	20	18.7						Sea off Kinkwazan.
		S	0	20	50.9						
		F	0	23	15—						
480	" 27	eP	0	42	30.9					280	S. part of the Kasima-nada.
		S	0	43	08.5						
		F	0	45	47—						
481	" 27	eP	16	52	59.7					171	Near Wakayama city.
		S	16	53	22.7						
		F	16	55	22—						
482	" 28	P	3	16	54.3					74	Near Mt. Ena.
		S	3	17	04.2						
		F	3	18	15—						
483	" 29	eP	18	21	40.9						Epicentre unknown.
		S	18	22	52.5						
		F	18	26	29—						
483	" 30	eP?	7	53	54.2						A distant shock.
		S	7	54	56.6						
		F	8	02	59—						
485	" 30	eP	11	35	47.1					545	S. sea off Kinkwazan.
		S	11	36	47.6						
		F	11	40	32—						
486	Dec. 1	eP	8	53	10.5					4065	A distant shock.
		S	8	59	01.5						
		F	9	21	06—						
487	" 1	iP	15	11	11.2		+34	+23			φ129°0E, λ30.7°N. NW. sea off Yakusima Is. (deep focus). The shock were felt at Kyusyu, Sikoku and Tyugoku districts.
		S	15	12	45.4						
		MN	15	12	46.8	—		—84			
		ME	15	13	15.3	3.0	—49				
		ScS	15	23	57.2						
		F	15	40	25—						
488	" 5	eP	0	57	57.4					42	Near Gihu city.
		S	0	58	03.1						
		F	0	58	56—						



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.	
489	Dec. 8	eP	19 30 10.7						A distant shock.
		S?	19 31 19.7						
		F	19 36 56—						
490	" 9	P	5 16 29.7					168	Near mt. Tateyama.
		S	5 16 52.4						
		ME	5 17 06.0	3.4	-39				
		MN	5 17 44.1	3.1		±45			
		F	5 30 11—						
491	" 10	eP	3 54 06.5					350	Sea off the mouth of the river Uketo in Hukusima pref.
		S	3 54 53.6						
		F	4 02 09—						
492	" 10	eP	14 15 20.5					372	In the Kasima-nada.
		S	14 16 10.6						
		F	14 20 19—						
493	" 10	eP	21 15 01.7					193	Near Yura in Wakayama pref.
		S	21 15 27.7						
		F	21 19 22—						
494	" 10	eP	22 26 32.0					354	φ140.1°E, λ34.4°N NE. sea off Miyake Is. The shock were felt at Kwanto, SE. part of Tyubu and a part of Tohoku districts.
		S	22 27 19.7						
		Mz	22 27 27.0	1.9			+15		
		MN	22 27 45.1	2.5		±45			
		ME	22 27 46.3	2.2	+34				
		F	22 40 11—						
495	" 11	eP	19 28 49.5					626	SE. sea off Boso peninsula.
		S	19 29 58.1						
		F	19 34 00—						
496	" 13	eP	18 16 39.9					40	Near Nagoya city.
		S	18 16 45.3						
		F	18 17 37—						
497	" 14	eP	6 35 51.8					2560	A distant earthquake.
		L	6 40 01.8						
		F	6 56 17—						
498	" 14	e	13 01 20.4						Near Seto in Wakayama pref.
		F	13 02 38—						

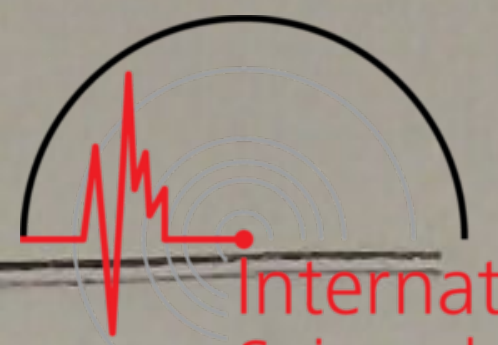
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
499	Dec. 14	eP	13 08 35.8					611	Near Naze.
		S	13 09 42.9						
		F	13 13 39—						
500	" 22	eP	3 10 24.4					249	NW. sea off Izu Oosima.
		S	3 10 57.9						
		F	3 14 11—						
501	" 23	eP	22 15 16.4					655	SE. sea off Nozima cape.
		S	22 16 27.9						
		F	22 24 22—						
502	" 23	e	23 15 12.9						Epicentre unknown.
		F	23 18 30—						
503	" 23	eP	23 43 29.1					798	SE. sea off Nozima cape.
		S	23 44 55.9						
		F	23 48 26—						
504	" 24	eP	7 56 43.1					359	ϕ141.1°E. ρ37.0°N. Sea off Sioya cape. The shock were felt at SE. part of Tohoku and NE. part of Kwanto districts.
		S	7 57 31.5						
		M _L	7 57 40.3	—			—17		
		M _N	7 57 54.3	—			—67		
		M _E	7 57 55.1	—	—56				
		F	8 07 33—						
505	" 24	P	22 49 53.1					208	Near Iwaya in Hyogo pref.
		S	22 50 13.9						
		F	22 56 30—						
506	" 26	eP	4 21 48.3					112	Near Kyoto city.
		S	4 22 03.4						
		M _E	4 22 05.9	0.8	—18				
		F	4 25 31—						
507	" 27	eP	1 48 41.1					138	NW. sea off Niizima Is.
		iS	1 48 59.6						
		F	1 51 22—						
508	" 27	eP	2 05 43.2					182	Ditto.
		iS	2 06 07.7						
		F	covered						



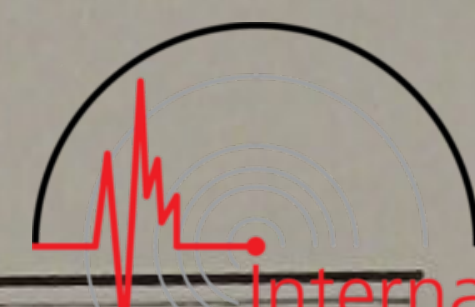
No.	Date	Phase	Time 135° E M. O. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
509	Dec. 27	eP	2 06 54.0					180	NW. sea off Niizima Is.
		S	2 07 18.3						
		F	2 11 55—						
510	" 27	eP	3 35 08.4					302	ϕ141.1°E, λ36.6°N.
		eS	3 35 49.1						N. part of the Kasima-nada.
		ME	3 36 04.0	1.3	+29				A slight shock was felt at a part
		MN	3 36 08.3	1.3		-36			of Kwanto.
		F	3 47 15—						
511	" 27	eP	8 03 33.5					96	Epicentre unknown.
		eS	8 03 46.4						
		F	8 07 25—						
512	" 27	P	9 12 41.3					192	NW. sea off Niizima Is.
		S	9 13 07.1						
		MN	9 13 08—						
		F	Covered						
513	" 27	eP	9 15 15.2					178	ϕ139.2°E, λ34.4°N.
		iP	9 15 15.9						Sea off Niizima Is.
		iS	9 15 39.1						The shock were felt at most of
		ME	9 16 01.8	1.8	±725				Kwanto, S. part of Tyubu and a
		MN	9 16 02.9	2.0		±720			part of Kinki.
		Mz	9 16 12.4	1.4			-211		Strong shock was felt at the
		F	Covered.						center.
									508 houses were destroyed and 3
									persons crashed to death.
514	" 27	eP	9 35 07.1					172	Ditto. (after shock).
		S	9 35 30.2						
		MN	9 35 32.1	1.0		+14			
		F	9 44 22—						
515	" 27	eP	10 00 48.7					335	Ditto.
		S	10 01 33.8						
		F	10 04 41—						
516	" 27	eP	10 26 21.8					178	Ditto
		S	10 26 45.8						
		F	Covered.						
517	" 27	P	10 31 15.9					301	Ditto.
		S	10 31 56.4						
		F	10 33 39—						



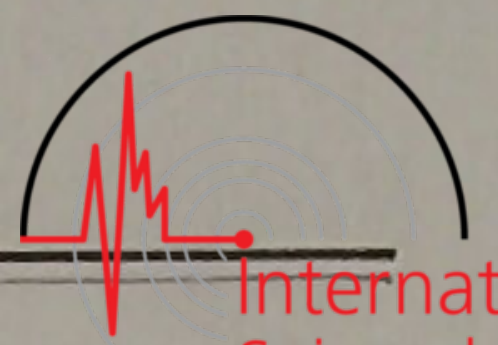
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
518	Dec. 27	iP	h m s 10 36 40.2	s	μ -2.1	μ +2.0	μ +1.3	km. 178	Sea off Niizima Is . (after shock)
		S	10 37 04.2						
		M _N	10 37 13.9	—		+45			
		M _E	10 37 34.4	1.2	+34				
		F	10 48 39—						
519	" 27	eP	11 02 11.0					171	Ditto.
		S	11 02 34.0						
		F	11 04 20—						
520	" 27	P	11 07 55.3					198	Ditto.
		S	11 08 22.0						
		F	11 10 30—						
521	" 27	P	11 12 56.3					187	Ditto.
		S	11 13 21.5						
		M _N	11 13 44.8	2.3		+248			
		M _Z	11 13 52.8	2.6			-55		
		M _E	11 13 55.6	2.3	-140				
522	" 27	eP	11 28 27.2					223	Ditto.
		S	11 28 57.2						
		M _N	11 29 35.4	2.4		+23			
		F	covered						
523	" 27	P	covered						Ditto
		S	11 32 34.3						
		F	11 38 30—						
524	" 27	eP	11 42 02.6					194	Ditto.
		S	11 42 28.7						
		F	11 45 24—						
525	" 27	e	11 48 11.5						Ditto.
		F	11 50 41—						
526	" 27	eP	11 51 54.9					139	Ditto.
		eS	11 52 13.6						
		F	11 54 38—						
527	" 27	e	12 05 37.0						
		F	12 07 25—						



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.	
528	Dec. 27	eP	12 15 32.1					184	Sea off Miizima Is. (after shock)
		S	12 15 56.9						
		F	12 17 20—						
529	" 27	eP	12 22 13.8				151	Ditto.	
		S	12 22 34.2						
		F	covered						
530	" 27	eP	12 24 00.8				194	Ditto.	
		S	12 24 27.0						
		F	12 26 34—						
531	" 27	eP	12 32 10.9				161	Ditto.	
		S	12 32 32.6						
		F	covered						
532	" 27	eP	12 33 55.0				152	Ditto	
		S	12 34 15.6						
		F	12 37 23—						
533	" 27	e	12 52 20.6					Ditto.	
		F	12 54 14—						
534	" 27	e	14 08 59.2					Ditto.	
		F	14 11 16—						
535	" 27	e	14 12 14.7					Ditto	
		F	14 15 23—						
536	" 27	eP	17 00 06.1				191	Ditto.	
		S	17 00 31.8						
		F	17 03 32—						
537	" 27	eP	21 20 19.8				185	Ditto	
		eS	21 20 44.7						
		F	21 22 27—						
538	" 27	P	21 32 28.4				193	Ditto	
		S	21 32 54.4						
		M _E	21 32 59.2	—	+19				
		M _N	21 33 06.5	—		+22			
		F	21 41 27—						



No.	Date.	Phase.	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks			
					AE	AN	Az					
539	Dec. 27	P?	h m s 21 42 11.0	s	μ	μ	μ	km. 174	Sea off Niizima Is. (after shock)			
		S	21 42 34.4									
		F	21 44 39—									
540	" 27	eP	21 48 35.5					201	Ditto.			
		S	21 49 02.7									
		F	21 51 25—									
541	" 27	P	22 44 59.1					163	Ditto.			
		S	22 45 21.0									
		M _E	22 45 31.6							—	+38	±13
		M _Z	22 45 28.8							—		
		M _N	22 46 08.1							--	+45	
		F	22 54 19—									
542	" 27	e	22 58 45.3						Ditto.			
		F	23 00 27—									
543	" 28	eP	2 46 07.9					180	Ditto.			
		S	2 46 32.2									
		F	2 48 37—									
544	" 28	eP	3 01 19.9					319	Ditto.			
		S	3 02 02.8									
		F	3 03 33—									
545	" 28	P	3 20 22.3					189	Ditto			
		S	3 20 47.7									
		F	3 25 04—									
546	" 28	e	5 04 39.6						A local shock. Near Nagoya city.			
		F	5 06 18—									
547	" 28	P	6 35 29.6						An after shock of the strong shock at Niizima Is.			
		S?	6 35 52.6									
		F	6 41 09—									
548	" 28	e	7 32 06.1						Epicentre unknown.			
		F	7 33 43—									
549	" 28	e	8 23 04.7						Near Takata city.			
		F	8 25 13—									



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.	
560	Dec. 29	e	11 06 20.6						A local shock. Near Nagoya city.
		F	11 08 09—						
561	" 29	eP	17 29 22.6					389	Sea off Sioya cape.
		S	17 30 15.0						
		F	17 33 38—						
562	" 29	e	23 27 38.9						Sea off Kinkwazan.
		F	23 30 27—						
563	" 29	eP	23 55 52.9						A distant shock.
		S?	23 57 17.4						
		F	0 10 31—						
564	" 30	e	13 10 58.3						Near Tanegasima Is.
		F	13 21 45—						
565	" 31	eP	9 19 45.9					148	SSW. sea off Izu peninsula.
		S	9 20 05.9						
		F	9 21 43 -						
566	" 31	eP	11 25 19.1					185	Epicentre unknown
		S	11 25 44.0						
		F	11 27 32—						

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編輯者

名古屋市東區田代町字金兒砦
愛知縣測候所內

山田久邦

發行所

名古屋市東區田代町字金兒砦
愛知縣測候所

愛知縣測候所

印刷所

名古屋市中區南大津町二丁目三番地
英比貞造

英比貞造