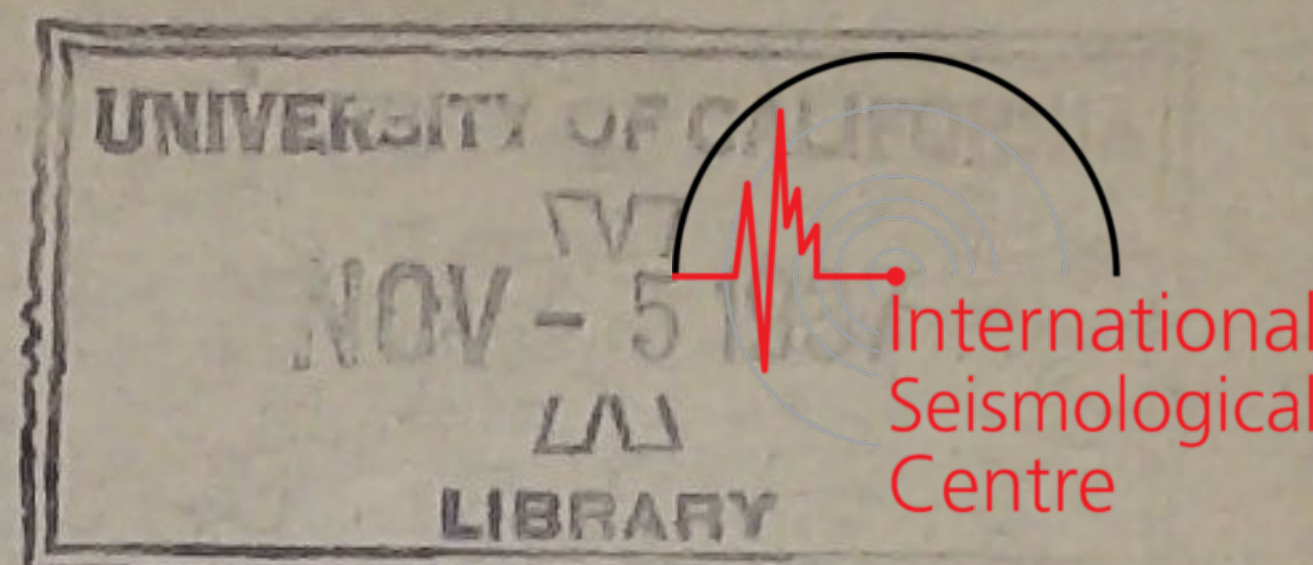


Seismology



# SEISMOLOGICAL BULLETIN

OF THE

AITIKEN METEOROLOGICAL OBSERVATORY

NAGOYA JAPAN

VOL. VIII, NO. 1,

FROM JANUARY TO JUNE,

1937

**NAGOYA**

**September 1937**



## 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.  $135^{\circ}\text{E}$  mean civil time.

### Constants of the Seismographs

Apparatus	Component	T <sup>o</sup>	$\xi$	$\frac{r}{T^2 c^2}$	V	
Wiechert 200kg	I {	N	4.9	8	0.03	89
		E	5.1	6	0.01	95
	II {	N	5.0	10	0.01	109
		E	5.7	6	0.01	97
" 80kg	Z	3.3	12	0.04	82	
Omori	}	N	20.0	4	0.04	20
		E	20.0	3	0.02	20

Note. I, Jan 1 to May 16  
 II, May 17 to June 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.

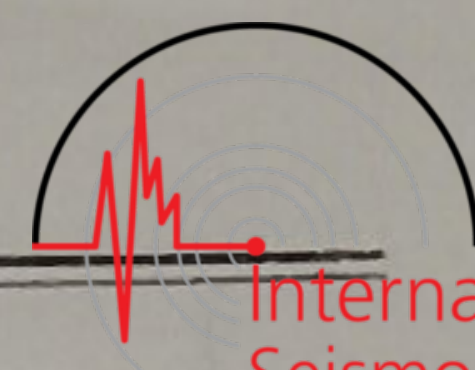
e = Gradual beginning of the motion.

### 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
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
1	Jan. 2	eP	7 16 53.3					274	Epicentre unknown.
		S	7 17 30.2						
		F	7 21 43—						
2	" 2	eP	15 20 40.4					236	Neighbourhood Izu peninsula.
		S	15 21 12.2						
		F	15 23 34—						
3	" 3	e	2 44 35.2						S. part of the Hyuga-nada.
		F	2 46 38—						
4	" 3	eP	3 45 22.9					175	NE. part of Ibaraki pref.
		S	3 45 46.5						
		F	3 48 33—						
5	" 3	eP	5 06 25.5					28	A local shock. Near the city of Nagoya.
		S	5 06 29.3						
		F	5 07 38—						
6	" 3	eP	8 33 39.8					325	N. part of the Kasima-nada.
		eS	8 34 23.6						
		F	8 36 17—						
7	" 3	eP	9 13 32.4					197	In the Kii Straits.
		S	9 13 59.0						
		F	9 16 56—						
8	" 4	eP	0 35 56.8					178	Near Ito in Izu peninsula.
		S	0 36 20.7						
		F	0 38 46—						
9	" 4	e	1 40 42.6						Central part of Tyubu district.
		F	1 42 44—						
10	" 4	eP	7 35 20.9					314	Epicentre unknown.
		S	7 36 03.2						
		F	7 38 53—						
11	" 4	e	11 41 37.9						Ditto.
		F	11 44 38—						



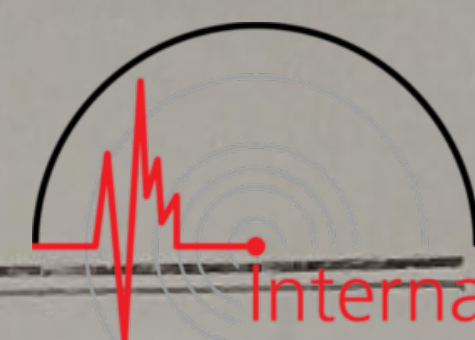


No.	Date.	Phase.	Time 135°E M C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
12	Jan. 4	eP	12 03 10.7					169	Near Ito in Izu peninsula.
		S	12 03 33.5						
		F	12 07 05—						
13	" 4	eP	13 36 20.1					267	Sea off the mouth of the river Kuji in Ibaraki pref.
		S	13 36 56.1						
		F	13 39 42—						
14	" 5	eP	7 37 35.7					42	Near Yokkaiti city.
		S	7 37 41.4						
		F	7 39 58—						
15	" 5	e	7 54 34.3						A distant shock.
		F	7 58 00—						
16	" 5	eP	9 39 00.2					142	Near Kameyama in Mie pref
		S	9 39 19.4						
		F	9 41 01—						
17	" 5	e	10 19 00.5						Central part of Tyubu district.
		F	10 23 44—						
18	" 5	eP	12 43 26.0					289	Near Izu Niizima Is.
		S	12 44 05.0						
		F	12 48 45—						
19	" 5	e	13 53 03.8						A distant shock. (faint record)
		F	13 57 55—						
20	" 5	eP	16 03 05.7					3927	Near Kumamoto city.
		eS	16 03 58.5						
		F	16 07 41—						
21	" 5	eP	17 20 26.4					367	Sea off Sioya cape.
		S	17 21 15.8						
		F	17 24 48—						
22	" 5	P	20 11 04.4					790	♯139.°6E, 28.°0N. WNW. sea off Titizima Is. D = 500km. The shock were abnormal felt at Titizima and Utunomiya.
		S	20 12 30.4						
		ME	20 12 32.6	3.7	+105				
		Mz	20 12 33.0	1.9			+17		
		MN	20 12 33.6	3.7		-97			
		SCS	20 22 40.7						
		F	20 30 34—						



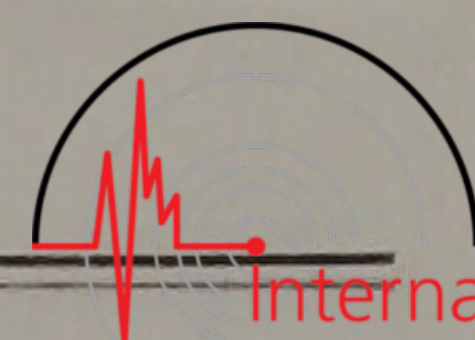
No.	Date.	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
			h m s	s	μ	μ	μ	km.	
23	Jan. 5	eP	23 51 44.5					178	The course of the river Arita in Wakayama pref.
		S	23 52 08.5						
		F	23 54 57—						
24	" 6	eP	6 06 58.1				550	ϕ132.°3E, λ31.°6N. S. part of the Hyuga-nada. Slight shock were felt in Miyazaki and Oita pref.	
		S	6 07 59.4						
		F	6 12 35—						
25	" 6	e	6 34 47.4					Ditto.	
		F	6 36 54—						
26	" 6	P	6 39 22.0				1400	A distant shock	
		S	6 41 48.8						
		F	7 14 52—						
27	" 6	eP	8 47 16.9				365	In the Hyuga-nada.	
		S	8 48 06.0						
		F	8 52 48—						
28	" 6	eP	21 33 52.9				328	ϕ140.°0E, λ35.°6N. Near Hunabasi in Tiba pref.	
		S	21 34 37.1						
		F	21 39 41—						
29	" 7	eP	12 08 36.8				354	S. part of the Hyuga-nada.	
		S	12 09 24.5						
		F	12 12 07—						
30	" 7	e	13 30 44.4					Ditto.	
		F	13 35 00—						
31	" 7	P	15 13 26.8		—3	—4	620	ϕ142.°0E, λ38.°8N. E sea off the Koizumi bay in Miyagi pref. The shock were felt in the greater parts of Tohoku N. part of Kwanto and S. part of Hokkaido.	
		S	15 14 34.6						
		MZ	15 15 01.6	2.5		±550			
		MN	15 15 02.1	2.2		+650			
		ME	15 15 08.6	2.5	±700				
		F	covered						
32	" 7	eP	15 26 34.3				408?	Ditto.	
		S	15 27 29.2						
		F	15 29 46—						





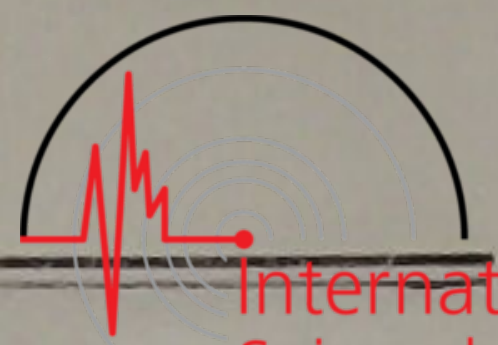
No.	Date.	Phase.	Time 135°E M. C T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
33	Jan. 7	eP	16 01 41.0					680	E sea off Koizumi bay in Miyagi pref.
		S	16 02 55.9						
		F	16 05 35—						
34	" 7	eP	16 06 27.4					444	In the Hyuga-nada.
		S	16 07 27.2						
		F	16 09 58—						
35	" 7	eP	22 27 04.1					3170	A distant earthquake.
		iP	22 27 08.3						
		S	22 31 59.0						
		L	22 38 02.1						
		MN	22 41 17.8	12.8		-1466			
		ME	22 41 33.9	12.6	+1671				
		Mz	22 41 38.0	13.6		+1650			
F	23 43 43—								
36	" 9	eP	3 26 51.1					304	In the Kasima-nada.
		S	3 27 32.1						
		F	3 30 18—						
37	" 10	eP	7 22 49.6					246	Epicentre unknown
		S	7 23 22.7						
		F	7 25 12—						
38	" 10	eP	16 12 51.2					700	SSW. sea off Hatizyo Is.
		S	16 14 08.0						
		ME	16 14 10.2	3.0	+49				
		MN	16 14 12.0	3.0		+22			
		F	covered						
39	" 10	eP	16 20 09.3					710	In the Kasima-nada.
		S	16 21 27.7						
		F	16 26 48—						
40	" 11	eP	10 31 55.3					680	S. part of the Hyuga-nada.
		eS	10 33 10.0						
		F	10 36 56—						
41	" 14	eP	23 57 14.6					202	SE. sea off Nojima cape.
		S	23 57 41.8						
		F	23 59 17—						





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	Jan. 15	e F	14 17 45.3 14 21 05—						A distant shock.
43	" 15	eP S F	20 15 22.2 ? 20 15 26.0 20 15 43—						Near Mt. Koseki in Totigi pref.
44	" 16	e F	15 57 30.5 16 00 07—						Epicentre unknown. (very faint record)
45	" 17	eP S F	15 02 33.7 15 03 32.2 15 08 31—					434	Near Yabuki in Hukusima pref.
46	" 18	iP S ME MN F	4 00 46.2 4 00 59.1 4 00 59.5 4 01 06.4 4 07 18—					96	Near Takayama city.
47	" 19	e F	8 46 49.5 8 49 02—						Near Mt. Myogi.
48	" 19	eP S F	9 26 12.6 9 26 19.2 9 27 36—					49	Near Nagoya city.
49	" 20	eP S ME Mz MN F	9 04 56.2 9 06 31.7 9 07 27.0 9 07 32.8 9 07 35.7 9 14 49—					875	ϕ142°8E, λ42°0N. S sea off Wakayama. The shock were felt in the S. part of Hokkaido and NE. part of Tohoku.
50	" 20	eP S F	17 33 38.7 17 34 23.1 17 38 42—					330	In the Insyu-nada.
51	" 21	e F	10 30 25.5 10 33 33—						In the bay of Sagami.



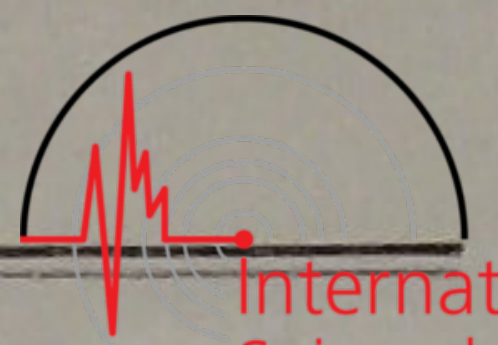


No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
			h m s	s	μ	μ	μ	km.	
52	Jan. 21	eP	12 39 41.2					398	Sea off Hatijyo Is
		S	12 40 34.8						
		MN	12 40 38.4	2.7		+7			
		F	12 44 33—						
53	" 23	eP	17 51 05.3					393	φ131.°6E, λ33.°3N. Near Oita city. D=100km. Earthquake shock were felt in the NE. part of Kyusyu and a part of Sikoku, Tyugoku districts.
		S	17 51 58.2						
		MN	17 51 59.9	0.8		-11			
		ME	17 52 01.4	0.5		-15			
		F	17 56 50—						
54	" 23	eP	17 58 41.4					208	φ140.°0E, λ36.°1N. Near Mikkaido in Ibaraki pref. The Moderate shock was felt at the center and a slight shock was felt over Kwanto
		S	17 59 09.4						
		Mz	17 59 37.1	1.4		-24			
		MN	17 59 37.3	1.5		+45			
		ME	17 59 57.9	1.7		±42			
		F	18 05 57—						
55	" 23	P	20 04 01.4						A distant earthquake.
		S?	20 05 43.1						
		MN	20 06 22.1	3.1		-12			
		F	20 11 06—						
56	" 25	P	15 43 10.5					5736	Ditto.
		S	15 50 32.8						
		L	15 57 33.4						
		ME	16 01 00.1	15.0		-147			
		MN	16 01 06.4	15.1		+309			
F	16 52 10—								
57	" 26	iP	18 03 38.7					24	A local shock. Near Nagoya city. A Slight shock was felt at Nagoya.
		S	18 03 41.9						
		MN	18 03 42.1	—		-37			
		ME	18 03 42.3	—		-16			
		Mz	18 03 43.0	—		-17			
		F	18 06 56—						
58	" 27	e	5 54 40.4						Ditto
		F	5 55 21—						



No.	Date	Phase	Time 135°E M. C. T			Per'od	Amplitude			△ Epicentre- distance	Remarks
							A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h	m	s	s	μ	μ	μ	km.	
59	Jan. 27	eP	16	06	06.1					937	ϕ130.°8E, λ32.°7N. Near Kumamoto city. The shock was felt in almost of Kyusyu.
		S	16	07	47.8						
		M <sub>N</sub>	16	08	18.7	2.1			-20		
		M <sub>E</sub>	16	08	30.4	1.9	+14				
		F	16	16	01—						
60	" 28	e	3	23	11.7						Near Titizima Is
		F	3	28	53—						
61	" 28	eP	9	45	13.6					839	ϕ130.°8E, λ32.°7N. Near Kumamoto city. The slight shock was felt in the greater part of Kyusyu. A moderate shock was felt at the center.
		S	9	46	44.5						
		M <sub>N</sub>	9	47	15.3	2.7			-20		
		M <sub>E</sub>	9	47	32.9	2.9	+13				
		F	9	54	01—						
62	" 30	eP	2	27	59.0					590	SE. sea off Titizima Is.
		S	2	29	04.0						
		M <sub>N</sub>	2	29	11.5	2.9			+27		
		M <sub>E1</sub>	2	29	52.3	2.7	-21				
		M <sub>E2</sub>	2	32	14.3	2.9	+21				
		F	2	38	21—						
63	" 30	eP	7	09	32.4					402	NE sea off Kinkwazan.
		S	7	10	26.5						
		F	7	13	38—						
64	" 30	P	10	10	34.5					173	ϕ138.°2E, λ33.°5N. S. sea off Omaesaki. The shight shock were felt in the S. part of Tyubu and SE. part of Kinki districts
		S	10	10	57.7						
		M <sub>E1</sub>	10	10	59.8	1.1	-155				
		M <sub>E2</sub>	10	11	01.3	1.1	+179				
		M <sub>Z</sub>	10	11	03.9	1.0			+80		
		M <sub>N1</sub>	10	11	14.8	1.1			+180		
		M <sub>N2</sub>	10	12	10.1	2.0			-170		
		F	10	20	42—						
65	" 30	eP	15	29	35.4					188	Ditto.
		S	15	30	00.6						
		F	15	33	43—						
66	" 31	eP	7	59	03.7					20	Near Nagoya city.
		S	7	59	06.4						
		F	7	59	50—						
67	" 31	e	15	32	23.2						The mouth of the river Itoi.
		F	15	35	11—						





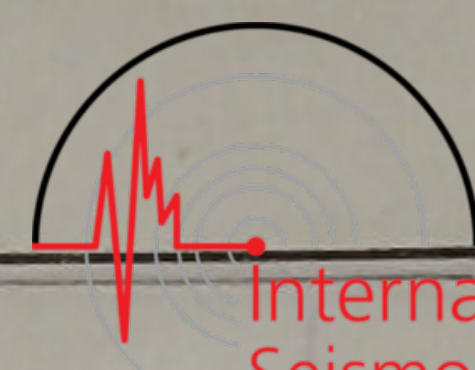
No.	Date	Phase	Time 135°E M. O. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
			h m s	s	μ	μ	μ	km.	
68	Jan 31	e	17 01 17.5						Near Hunatuki in Wakayama pref
		F	17 03 30—						
69	Feb. 2	eP	2 46 17.6					170	In the Kii Straits.
		S	2 46 40.5						
		F	2 48 29—						
70	" 2	eP?	3 55 51.0						Ditto.
		S	3 56 01.2						
		F	3 57 24—						
71	" 3	eP	1 14 21.5					1270	SE. sea off Otiisi cape
		S	1 16 36.5						
		F	1 22 42—						
72	" 4	e	5 50 21.3						SW. sea off Urakawa in Hokkaido
		F	5 56 50—						
73	" 4	eP	7 57 54.7					262	Sea off Izu-Niizima Is.
		S	7 58 30.0						
		F	8 00 38—						
74	" 4	P	8 33 47.8					174	Near Hinomisaki in Wakayama pref.
		S	8 34 11.2						
		MN	8 34 14.2	1.1		+28			
		ME	8 34 17.9	0.9	+26				
		F	8 39 44—						
75	" 5	P	10 02 51.0					229	Near Toyooka in Hyogo pref.
		S	10 03 21.8						
		F	10 05 44—						
76	" 8	eP	11 33 28.4					167	Near Mineyama in Tango province.
		S	11 33 50.9						
		F	11 37 09—						
77	" 8	eP	21 19 27.6					672	In the Bungo Straits.
		S	21 20 40.8						
		MS <sub>1</sub>	21 21 08.9	2.7		-14			
		ME	21 21 09.3	2.3	±12				
		MS <sub>2</sub>	21 21 28.9	2.3		-15			
F	21 27 08—								





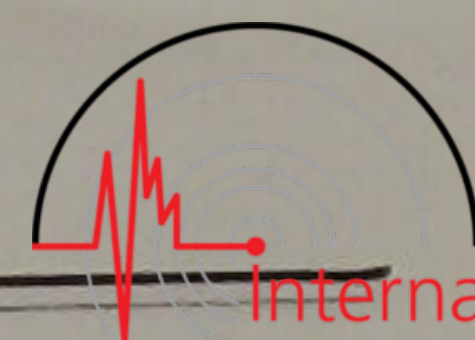
No.	Date	Phase	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance km.	Remarks
							AE	AN	Az		
78	Feb. 9	eP	18	18	34.5				321	In the Kasima-nada.	
		S	18	19	17.7						
		F	18	21	44—						
79	" 11	eP	6	00	28.3				690	E. sea off Inubo cape.	
		S	6	01	44.3						
		ME	6	01	48.8	2.4	-13				
		MN	6	01	51.1	2.5		-25			
		F	6	07	08—						
80	" 11	P	12	13	52.5				552	Near Mt. Kirisima.	
		S	12	14	53.7						
		ME	12	15	01.2	1.0	+10				
		F	12	18	15—						
81	" 11	eP	15	46	11.1				624	W. sea off Ojika peninsula.	
		eS	15	47	19.5						
		F	15	51	15—						
82	" 12	eP	16	56	42.3				416	SW. part of Ibaraki pref.	
		eS	16	57	38.3						
		F	16	59	41—						
83	" 14	eP	10	06	24.9				609	In the Bungo Straits.	
		S	10	07	31.8						
		MN	10	07	52.1	2.5		-51			
		ME	10	09	42.4	2.7	+24				
		F	10	15	08—						
84	" 14	eP	12	29	12.5				223	Near Izu-Niizima Is.	
		S	12	29	42.5						
		ME	12	30	11.7	1.6	-17				
		MN	12	30	30.6	2.4		-23			
		F	12	34	09—						
85	" 14	eP	13	50	31.0				2807	Near Wakamatu city in Hukusima pref.	
		S	13	51	08.6						
		MN	13	51	25.3	2.4		-22			
		F	13	54	38—						
86	" 14	eP	18	37	58.4				327	Ditto.	
		S	18	38	42.4						
		F	18	41	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.	
87	Feb. 17	eP	18	18	42.4	2.0				1225	Near Etorohu Is.
		S	18	20	52.9						
		MN	18	21	45.0						
		F	18	25	48—						
88	" 17	P	22	04	32.5	1.2	+7			299	Near Teganuma in Tiba pref.
		eS	22	05	12.7						
		ME	22	05	24.0						
		MN	22	05	23.3						
		F	22	08	52—						
89	" 17	iPz	22	32	01.4		+1.3	+1.5	-11.0	20	A local shock. Near Nagoya city. A slight shock was felt at Nagoya.
		S	22	32	04.1						
		Mz	22	32	04.3						
		ME	22	32	04.6						
		MN	22	32	04.9						
		F	22	33	57—						
90	" 19	eP	13	20	59.9					60	Near Hamamatu city.
		S	13	21	08.0						
		F	13	22	43—						
91	" 20	e	15	01	05.0						A distant shock.
		F	15	04	58—						
92	" 21	eP	16	05	50.4	17.0				4460 ?	A distant earthquake. SE. sea off Etorohu Is.
		L	16	12	03.2						
		MN	16	12	26.0						
		Mz	16	12	45.2						
		F	18	05	22—						
93	" 21	eP	19	55	23.2					1490	Ditto
		S	19	57	59.4						
		F	20	09	31—						
94	" 22	eP	0	09	05.8					1250	Sea off Etorohu Is
		S?	0	11	18.9						
		F	0	15	15—						
95	" 22	eP	7	32	27.1					1375	Ditto
		S	7	34	51.7						
		F	7	41	20—						



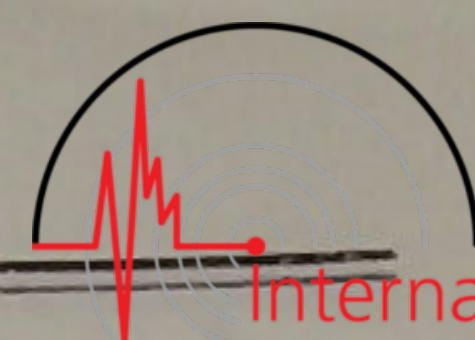


No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
96	Feb. 22	e	9 22 34.7						Sea off Etorohu Is.
		F	9 31 12—						
97	" 22	eP	11 57 05.3					1660	Ditto.
		S	11 59 57.5						
		F	12 06 12—						
98	" 22	e	13 39 11.1						Ditto.
		F	13 44 29—						
99	" 22	e	22 27 20.9						Ditto
		F	22 37 30—						
100	" 23	eP	9 51 32.3					1375	SE. sea off Etorohu Is.
		S	9 53 57.5						
		MN	9 55 14.8	3.4		+28			
		ME	9 55 28.8	3.0	+22				
		F	10 12 13—						
101	" 23	e	22 55 15.2						Sea off Etorohu Is.
		F	23 05 31—						
102	" 25	eP	9 42 39.4						Ditto.
		S?	9 44 04.0						
		F	9 49 31—						
103	" 26	eP	1 46 32.5					230	SSE. sea off Nojima cape.
		S	1 47 03.5						
		F	I 50 19—						
104	" 26	eP	13 17 42.7						Sea off Etorohu Is.
		S?	13 19 21.0						
		F	13 27 21—						
105	" 26	eP	22 43 58.3					115	Near Kyoto city.
		S	22 44 13.8						
		F	22 47 19—						
106	" 26	eP	23 05 00.7					435	In the Kasima-nada.
		S	23 05 59.4						
		F	23 07 49—						



No.	Date	Phase	Time			Period	Amplitude			$\Delta$ Epicentre distance	Remarks
			135 E M. C. T	h	m		s	AE	AN		
			h	m	s	s	$\mu$	$\mu$	$\mu$	km	
107	Feb. 26	eP	23	28	06.6					130	Near Kyoto city.
		S	23	28	24.2						
		F	23	30	24—						
108	" 27	eP	0	46	37.3					412	In the Kasima-nada.
		S	0	47	32.8						
		F	0	49	14—						
109	" 27	eP	7	54	20.5					165	Near Tanabe in Wakayama pref.
		S	7	54	42.8						
		F	7	55	48—						
110	" 27	e	8	21	36.1						Sea off Etorohu Is
		F	8	26	42—						
111	" 27	eP	8	41	09.0					610	In the Kasima-nada.
		S	8	42	16.4						
		F	8	46	41—						
112	" 27	eP	10	16	36.2					441	Ditto.
		S	10	17	35.6						
		Mz	10	18	09.6	2.0			+39		
		MN	10	18	10.2	2.1			-128		
		ME	10	18	25.3	2.0	+76				
		F	10	29	26—						
113	" 27	eP	10	32	00.9					387	NE. sea off Inubo cape.
		eS	10	32	53.0						
		F	10	35	12—						
114	" 27	e	13	16	25.9						In the Kasima-nada.
		F	13	18	27—						
115	" 27	iP	23	43	02.6		+1.1	+1.1		353	Sea off Murozu peninsula in Yamaguti pref.
		S	23	43	50.1						
		Mz	23	43	59.9	—			+57		
		ME	23	44	21.4	—	+136				
		MN	23	44	56.0	2.7			-184		
		F	23	59	14—						
116	Mar. 2	e	10	20	14.5						In the Kasima-nada.
		F	10	22	18—						





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.	
117	Mar. 3	e F	8 03 24.3 8 05 24—						Near Mt. Tukuba.
118	" 7	eP S F	2 59 46.1 3 00 18.4 3 03 13—					240	Near Kiriū city.
119	" 8	P S F	23 25 57.8 23 26 10.1 23 29 19—					91	Near Kaida in Nagano pref.
120	" 13	eP S F	0 45 56.1 0 46 29.3 0 49 16—					247	Near the mouth of the river Hidaka in Wakayama pref.
121	" 17	P S ME MN F	covered 0 50 43.6 0 51 17.1 0 51 32.8 1 00 37—		2.7 3.1	+23	—36		W. part of the Bashee channel.
122	" 22	eP S F	0 03 02.3 0 03 10.1 0 04 37—					58	Near Kameyama.
123	" 22	e F	1 19 28.4 1 27 37—						A distant shock.
124	" 22	e F	3 15 18.2 3 24 43—						Ditto.
125	" 22	P S MN ME MZ F	4 31 03.3 4 32 25.1 4 32 37.8 4 32 56.3 4 33 05.2 4 46 37—		2.3 2.1 1.9	+112 +114	+112 —37	750	♭142.°2E, ♭40.°2N. Sea off Kuji in Iwate pref. Felt in the greater parts of Tohoku and a part of Hokkaido, Kwanto districts.
126	" 22	eP eS F	17 39 28.4 17 40 06.9 17 43 41—						S sea off Yakujima Is.

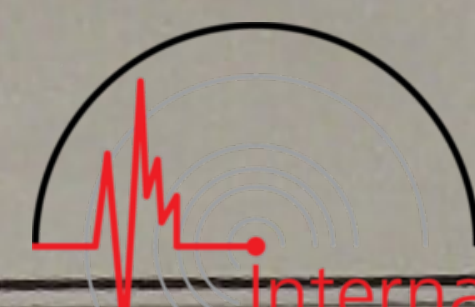


No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
127	Mar 22	e F	18 02 45.8 18 04 47—		$\mu$	$\mu$	$\mu$	km.	The course of the river Dosi in Yamanaſi pref.
128	" 22	e F	19 01 06.7 19 07 30—						S. sea off Yakujima Is.
129	" 23	eP S F	2 00 51.9 2 01 45.2 2 05 49—						In the Hyuga-nada
130	" 23	P S F	2 48 27.6 2 48 34.3 2 50 04—					50	Near Okazaki city.
131	" 25	eP S? F	5 21 46.1 5 22 32.7 5 26 09—					345	In the Kasima-nada.
132	" 27	eP S F	0 11 56.0 0 12 27.8 0 15 04—					236	Near Iwai in Ibaraki pref.
133	" 27	eP S F	9 25 43.2 9 26 12.2 9 27 55—					215	The course of the river Arita in Wakayama pref.
134	" 28	P S ME MN F	6 11 09.1 6 11 40.0 6 11 50.5 6 12 03.4 6 21 04—	1.3 1.5	-32	+34		230	139.97E, 35.76N. Near Tokyo city. Felt at places in the S. Kwanto and E. part of Tyubu district.
135	" 29	eP S F	19 04 08.7 19 05 14.6 19 09 44—					600	S part of the Kasima-nada
136	" 30	eP eS F	12 08 37.0 12 09 17.9 12 10 50—					304	Near Sarusima in Ibaraki pref.
137	" 30	eP S F	13 39 38.9 13 40 24.6 13 42 03—					339	Near Mt. Tukuba.



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.	
138	Mar. 31	eP	17	07	22.6						Sea off Sioya cape
		S	17	08	22.6						
		F	17	13	32—						
139	April 2	e	0	37	56.0						In the Kasima-nada.
		F	0	40	32—						
140	" 2	e	2	27	57.1						Near Hamamatu city.
		F	2	30	02—						
141	" 2	e	15	44	55.0						Near Kosyun in Taiwan
		F	15	47	57—						
142	" 3	eP	9	58	14.2				34		Near Gihu city. (faint record)
		S	9	58	18.8						
		F	9	59	38—						
143	" 4	P	covered.								A distant shock.
		S	6	16	02.1						
		F	6	23	40—						
144	" 4	eP	14	00	43.0				420		W. sea off Hatijyo Is.
		S	14	01	39.5						
		F	14	11	45—						
145	" 5	eP	16	03	36.3				3840		A distant shock. NW. sea of New Guinea.
		L	16	09	13.9						
		F	16	39	42—						
146	" 6	e	8	44	15.2						A distant shock.
		F	8	49	31—						
147	" 8	e	14	54	34.8						Near Maebashi city. (deep focus).
		F	14	57	29—						
148	" 10	eP	7	22	17.1				305		Near Sakai in Ibaraki pref.
		S	7	22	58.2						
		F	7	25	17—						
149	" 12	P	18	51	02.7				170		In the bay of Kumihama in Kyoto pref.
		S	18	51	25.6						
		MN	18	51	41.1	0.9		+11			
		ME	18	51	42.0	0.9	-9				
		F	18	55	21—						



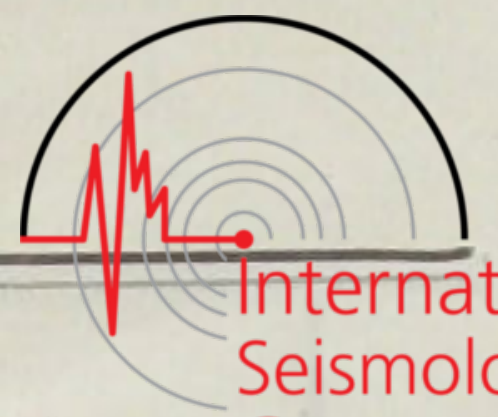


No.	Date.	Phase.	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
			h m s	s	μ	μ	μ	km.	
150	April 13	P	5 17 00.0					774	N. sea off Titijima Is.
		S	5 18 24.4						
		ME	5 18 25.3	2.8	+5				
		MN	5 18 42.6	2.8		-6			
		F	5 23 05—						
151	" 13	eP	9 05 39.6				2627	SW foot of Mt. Tukuba	
		S	9 06 14.9						
		F	9 08 28.1						
152	" 13	e	23 07 03.7					Near Naruto in Tiba pref.	
		F	23 09 23—						
153	" 13	eP	23 15 31.8				30	The mouth of the river Ibi	
		S	23 15 35.9						
		F	23 16 57—						
154	" 14	eP	4 09 28.3				554	S. part of the Kasima-nada.	
		S	4 10 29.7						
		MN	4 11 12.0	2.5		-11			
		F	4 15 31—						
155	" 14	eP	20 31 29.1				231	Near Kumagaya city.	
		S	20 32 00.2						
		F	20 35 30—						
156	" 15	eP	7 51 48.9				618	ENE. sea off Miyako.	
		eS	7 52 56.7						
		F	7 56 58—						
157	" 15	eP	21 42 20.1				770	E. sea of Sioya cape.	
		S	21 43 44.1						
		MN	21 44 00.1	2.3		-15			
		ME	21 44 12.8	2.2	+9				
		F	21 49 26—						
158	" 16	eP	0 02 33.9				172	Mt. Asama.	
		S	0 02 57.0						
		F	0 05 36—						



No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
159	April 16	P	12 12 17.6					7296	A distant earthquake. Near Tonga Is.
		S	12 21 01.9						
		M <sub>N</sub>	12 22 05.9	5.4		+87			
		M <sub>E</sub>	12 22 07.9	4.3		-164			
		F	12 57 15—						
160	" 17	P	4 24 17.0		+1.1	-1.1	-6.1	74	Near Toyohasi city. A Slight shock was felt at E. part of Aiti pref.
		S	4 24 26.9						
		M <sub>E</sub>	4 24 27.6	0.5		+24			
		M <sub>N</sub>	4 24 27.7	0.5		-35			
		M <sub>Z</sub>	4 24 28.0	0.5		-13			
		F	4 30 11—						
161	" 19	e	12 37 11.3						Near Sionomisaki.
		F	12 39 45—						
162	" 22	eP	9 40 28.0					42	A local shock. Near Nagoya city (faint record)
		S	9 40 33.7						
		F	9 41 25—						
163	" 25	eP	6 08 07.8					135	Near Isigaki in Wakayama pref.
		S	6 08 25.9						
		F	6 11 36—						
164	" 26	eP	18 34 53.3					410	E. sea off the mouth of the river Uketo in Hukusima pref.
		S	18 35 48.6						
		F	18 38 13—						
165	" 26	eP	21 12 57.2					187	Near Uenobara in Yamanasi pref.
		S	21 13 22.3						
		F	21 15 09—						
166	" 27	eP	21 43 28.0					680	Sea off Boso peninsula.
		S	21 44 41.9						
		F	21 52 03—						
167	" 29	e	9 15 49.9						N. foot of Mt. Tukuba.
		F	9 18 11—						
168	" 29	e	14 04 47.4						Near Mito city.
		F	14 06 23—						



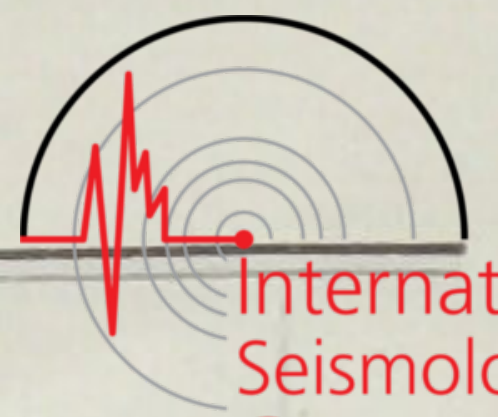


No	Date	Phase	Time 135°E M. O. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
169	April 30	eP	4 01 00.1						A distant shock. Neighbourhood of Aleutian Is.
		S?	4 02 37.5						
		F	4 17 53—						
170	" 30	P	5 21 22.5					1090	N. part of Japan sea. (deep focus)
		S	5 23 19.0						
		ME	5 23 27.4	3.2	-192				
		MN	5 23 36.0	3.1		+157			
		Mz	5 23 49.0	1.5			-39		
		F	5 39 04—						
171	May 1	iP	10 09 20.1		+5.3	-4.5	+12.7	45	Near Tokitu in Gihu pref.
		S	10 09 26.1						
		Mz	10 09 26.4	0.1<			+55		
		ME	10 09 26.9	0.1<			-56		
		MN	10 09 28.6	0.1<	-45				
		F	10 12 56—						
172	" 1	eP	14 38 50.9					556	Epicentre unknown.
		S	14 39 52.5						
		F	14 43 45—						
173	" 2	eP	11 56 53.4					34	A local shock. Near Nagoya city.
		S	11 56 58.0						
		F	11 57 32—						
174	" 4	eP	0 51 39.3					341	132°1E, 33°4N. In the Hoyo Straits
		S	0 52 25.2						
		ME	0 53 24.5	2.5	-14				
		MN	0 53 26.9	2.5		+15			
		F	0 59 22—						
175	" 5	P	1 31 38.2					216	140.0E, 36.1N Near Mikkaido in Ibaraki pref. The shock were felt in the greater parts of Kwanto and a part of Tohoku, Tyubu districts.
		S	1 32 07.3						
		ME	1 32 42.3	1.3	+245				
		Mz	1 32 45.3	1.3			-78		
		MN	1 32 49.7	1.7		+296			
		F	1 42 53—						
176	" 6	P	6 19 39.7					1874	A distant earthquake. Near Marianne Is.
		S	6 22 51.8						
		MN	6 23 09.5	2.7		+16			
		ME	6 23 39.5	2.5	+7				
		F	6 31 45—						



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.	
177	May 6	eP?	12 11 32.5						In the Kii Straits.
		S	12 11 43.5						
		F	12 14 13—						
178	" 7	eP	23 16 16.9					1719	A distant shock?
		S	23 19 14.8						
		F	23 27 16—						
179	" 8	eP?	3 06 48.2					1365?	ENE. sea off Miyako.
		S	3 09 12.7						
		MN	3 11 33.0	2.3		-4			
		F	3 18 31—						
180	" 9	eP	23 50 05.0						Near Etorohu Is.
		L	23 56 11.4						
		F	0 15 32—						
181	" 10	P	16 44 43.5					383	ϕ141.°3E, λ37.°1N. ENE. sea off Sioya cape. A slight shock was felt near the center.
		S	16 45 35.1						
		ME	16 45 58.3	1.8	-28				
		MN	16 46 07.9	1.9		-25			
		Mz	16 46 11.0	1.4			-10		
		F	16 51 40—						
182	" 11	e	18 25 14.7						Near Hunazu in Yamanasi pref.
		F	18 26 19—						
183	" 12	eP	11 52 22.1					1250	A distant shock.
		eS	11 54 35.2						
		F	12 03 49—						
184	" 14	eP	3 54 50.4					3705	Ditto.
		S	4 00 20.3						
		F	4 14 43—						
185	" 15	eP	21 23 29.7					197	ϕ139.°4E, λ34.°8N. Near Izu-Osima Is. The shock were felt in the greater part of Kwanto and SE. part of Tyubu districts. D = 80km.
		S	21 23 56.2						
		ME	21 23 59.3	2.3	+35				
		Mz	21 24 09.0	2.5			+10		
		MN	21 24 14.0	2.1		+51			
		F	21 33 51—						



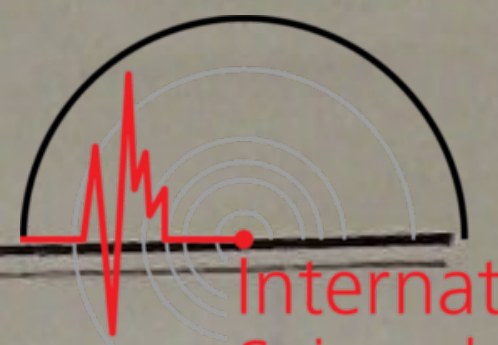


No.	Date.	Phase.	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
186	May 16	e	1 49 31.4						Mt. Asama
		F	1 51 50—						
187	" 16	eP	2 26 33.5					113	Near Owasi in Mie pref.
		S	2 26 48.8						
		F	2 28 48—						
188	" 20	eP	21 15 53.0					580	E. sea off Hatizyo Is.
		S	21 16 57.7						
		MN	21 17 01.5	2.5		-13			
		ME	21 17 48.8	2.5	±19				
		F	21 30 12—						
189	" 21	eP	10 58 01.6					995	SE. sea off Katuura.
		S	10 59 49.1						
		ME	11 01 12.6	3.0	-24				
		MN	11 01 10.8	2.7		+24			
		F	11 15 16—						
190	" 21	e	13 27 21.7						Near Omaesaki cape.
		F	13 29 15—						
191	" 21	e	14 37 32.5						Near Kuse in Okayama pref.
		F	14 38 25—						
192	" 21	eP	17 48 46.4					786	NE. sea off Hatijyo Is.
		S	17 50 12.0						
		MN	17 50 14.2	2.0		-9			
		ME	17 50 37.2	2.0	+8				
		F	17 56 15—						
193	" 25	eP	7 28 10.7					324	Near Kasumigaura.
		S	7 28 54.3						
		F	7 32 26—						
194	" 25	P	9 38 39.3					553	φ140.°3E, λ35.°6N. Near Tokane in Tiba pref. A slight shock were felt in the S. Kwanto and E. part of Tyubu districts.
		S	9 39 40.6						
		MN	9 39 49.3	1.5		+44			
		ME	9 39 54.1	1.7	+44				
		F	9 48 27—						



No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre distance	Remarks
					AE	AN	Az		
			h m s				km.		
195	May 25	eP	15 34 25.2	2.4	μ	μ	μ	717	Sea off Miyako
		S	15 35 43.9						
		MN	15 36 53.5						
		F	15 41 42—						
196	" 27	P	13 36 15.0				930	ENF. sea off Hatijyo Is.	
		S	13 37 56.0						
		F	13 49 53—						
197	" 27	e	18 35 40.1					Ditto.	
		F	18 39 00—						
198	" 28	P	2 12 06.8				153	Sea off the mouth of the river Maruyama in Hyogo pref.	
		S	2 12 27.5						
		F	2 15 31—						
199	" 28	e	16 15 29.8					Epicentre unknown.	
		F	16 23 39—						
200	" 29	P	4 58 44.4	3.8	-82		1201	142°05E, 24°00N. SSE. sea off Titijima Is. The shock were abnormal felt at Titijima, Tokyo, Katura and Utunomiya. D=450km.	
		S	5 00 52.5						
		ME	5 01 05.1						
		MN	5 01 08.0						
		Mz	5 01 18.8						
F	5 15 01—	1.5		-10					
201	" 29	P	11 02 45.2	2.6	+6		1163	S. sea off Titizima Is (deep focus)	
		S	11 04 49.5						
		ME	11 04 54.0						
		MN	11 05 05.8						
		F	11 16 01—						3.5
202	" 31	eP	15 27 27.3				39	A local shock. Near the city of Nagoya.	
		S	15 27 32.6						
		F	15 29 01—						
203	" 31	e	15 35 28.2					NE. sea off Kinkwazan.	
		F	15 37 58—						
204	" 31	eP	19 48 51.6				677	Ditto.	
		S	19 50 05.3						
		F	19 54 03—						





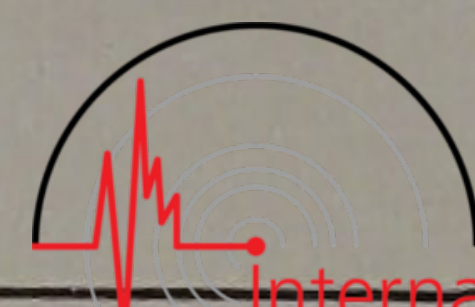
No.	Date.	Phase.	Time 135°E M. C. T	Period	Amplitude			△ Epicentre distance	Remarks
					AE	AN	AZ		
			h m s	s	μ	μ	μ	km.	
205	June 3	eP	8 17 50.7					138	In the Kii Straits.
		S	8 18 09.3						
		F	8 20 19—						
206	" 3	eP	12 06 34.5					334	Mt. Tukuba
		S	12 07 19.4						
		F	12 09 37—						
207	" 5	eP	13 38 30.2					265	Near Mt. Tukuba.
		S?	13 39 05.9						
		F	13 41 47—						
208	" 5	eP	15 02 34.8					111	Epicentre unknown
		S	15 02 49.8						
		F	15 03 51—						
209	" 6	eP	6 59 43.3					610	Central part of Kuju-kuri-hama.
		S?	7 00 50.5						
		F	7 03 48—						
210	" 7	iP	19 36 28.1		-0.6	+0.9	+1.5	42	Near Toyoake in Aiti pref.
		iS	19 36 33.7						
		ME	19 36 33.8	0.1<	-45				
		MN	19 36 33.8	0.1<		-15			
		Mz	19 36 34.0	0.1<			+6		
		F	19 39 40—						
211	" 8	eP	9 30 15.1					21	Near Gihu city.
		S	9 30 17.9						
		F	9 31 37—						
212	" 9	eP	3 02 22.3					910	SE. sea off Etorohu Is.
		S	3 04 01.2						
		F	3 14 05—						
213	" 9	eP	5 05 44.4					550	141.7°E, 39.2°N. Near the bay of Yoshihama in Iwate pref. The shock were felt in the greater part of Tohoku and a part of Kwanto districts.
		S	5 06 44.9						
		ME	5 07 03.6	3.0	-12				
		MN	5 07 20.9	2.8		-20			
		F	5 17 00—						





No.	Date	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
214	June 13	P	3 10 21.9					963	WSW. sea off Titijima Is. (deep focus)
		S	3 12 06.2						
		ME	3 12 09.6	3.1	-20				
		MN	3 12 21.9	2.6		±37			
		F	3 21 32—						
215	" 13	eP	13 35 26.9				425	In the Hyuga-nada	
		S	13 36 24.2						
		F	13 43 24—						
216	" 13	e	16 23 25.9					Ditto.	
		F	16 26 37—						
217	" 14	eP	10 37 50.6				732	Sea off Kinkwazan.	
		S	10 39 10.8						
		F	10 43 48—						
218	" 15	eP	0 08 26.0				343	Sea off Inubo cape.	
		S	0 09 12.3						
		F	0 12 29—						
219	" 15	eP	5 28 17.2				259	In the Kumano-nada. (deep focus)	
		S	5 28 52.1						
		F	5 33 05—						
220	" 16	eP	4 57 06.0					Sea off Sioya cape.	
		S?	4 57 39.6						
		F	5 00 37—						
221	" 17	eP	17 08 46.6				442	NE. sea off Hatijyo Is.	
		S	17 09 46.1						
		MN	17 09 59.2	2.0		-19			
		ME	17 09 59.4	2.0	+19				
		Mz	17 10 11.0	1.4		-9			
		F	17 18 25—						
222	" 18	eP	17 57 39.7				276	Ditto.	
		S	17 58 16.8						
		F	18 02 29—						
223	" 19	eP	3 13 49.6				250	N. part of the Kasima-nada.	
		S	3 14 23.3						
		F	3 16 39—						





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.	
224	June 19	eP	14 38 09.6					314	Mt. Tukuba.
		S	14 38 51.8						
		F	14 41 48—						
225	" 19	eP	17 17 21.6				324	Near Naze	
		S	17 18 05.2						
		F	17 20 43—						
226	" 19	e	21 53 39.0					Near Tomicka in Hukusima pref.	
		F	21 56 32—						
227	" 20	e	1 16 15.9					Sea off Sioya cape.	
		F	1 18 37—						
228	" 20	e	2 17 52.1					A distant shock.	
		F	2 21 17—						
229	" 20	P	2 28 44.9				1207	In the Okhotsk sea.	
		S	2 30 53.6						
		F	2 37 36—						
230	" 20	eP	5 20 12.6				316	S. part of the Hyuga-nada.	
		S	5 20 55.1						
		F	5 24 22—						
231	" 21	eP	3 42 48.8					Near Hamada.	
		S	3 43 07.1						
		F	3 45 23—						
232	" 21	eP	5 39 06.2				79	Near the city of Hamamatsu.	
		S	5 39 16.8						
		F	5 41 23—						
233	" 22	eP	0 32 27.1					Near Etorohu Is.	
		S?	0 33 17.1						
		F	0 39 21—						
234	22 "	eP	4 09 18.4					Near Kumamoto city.	
		S	4 11 48.2						
		F	4 16 32—						



No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
235	June 22	eP	5 15 54.9					38	A local shock. Near the city of Nagoya.
		S	5 16 00.0						
		F	5 16 32—						
236	" 22	eP	15 17 24.4				412	In the Kasima-nada.	
		S	15 18 20.0						
		F	15 20 39—						
237	" 23	eP	11 09 47.2				940	Near Mt. Osuzu in Miyazaki pref	
		S	11 11 29.0						
		F	11 15 21—						
238	" 24	P	5 43 09.0				1150	Ditto.	
		S	5 45 12.2						
		F	5 53 43—						
239	" 25	eP	17 51 55.1				62	Near Gihu city.	
		S	17 52 03.5						
		F	17 53 37—						
240	" 26	eP	12 28 56.0				308	Near Torite in Ibaraki pref.	
		S	12 29 37.5						
		F	12 33 31—						
241	" 27	eP	10 54 34.9				315	W. foot of Mt. Tukuba	
		S	10 55 17.3						
		F	10 58 18—						
242	" 29	eP	1 29 38.8				196	In the bay of Wakanoura	
		S	1 30 05.2						
		F	1 31 49—						
					The	end.			



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英比真造



**SEISMOLOGICAL BULLETIN**  
**OF THE**  
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**NAGOYA JAPAN**

VOL. VIII. NO. 2,

FROM JULY TO DECEMBER.

1937

**NAGOYA**

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**March 1938**



## CONSTANTS

Latitude and longitude of the center of the Seismographic room

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

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

Altitude,  $51.7^m$  above mean sea level.

Lithologic foundation, Schottered clay (Tertiary)

Time.  $135^{\circ}\text{E}$  mean civil time.

### Constants of the Seismographs

Apparatus	Component	$T^{\circ}$	$\xi$	$\frac{r}{T^2}$	V
Wiechert 200kg	I { N	5.0	10	0.01	109
	E	5.7	6	0.01	97
	II { N	5.0	5	0.01	117
	E	5.6	6	0.02	103
" 80kg	Z	3.3	12	0.04	82
Omori	{ N	20.0	4	0.04	20
	E	20.0	3	0.02	20

Note. I, July 1 to Dec 14  
 II, Dec 15 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.

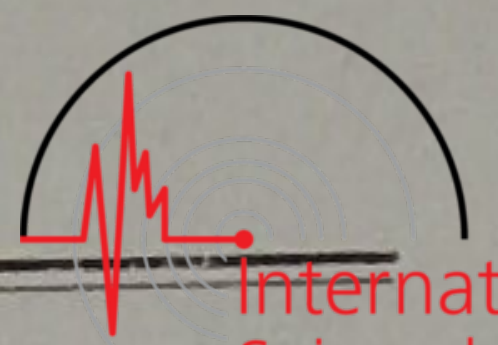
e = Gradual beginning of the motion

### III. Remarks.

Covered = Covered by following shock.

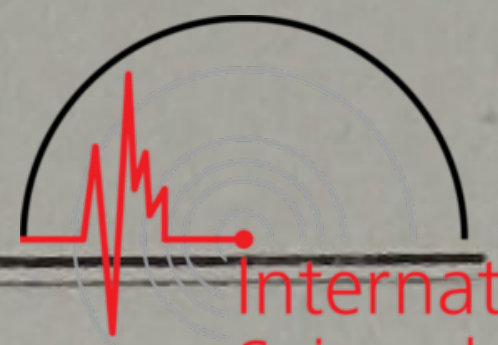
Is. = Island. Pref. = Prefecture.





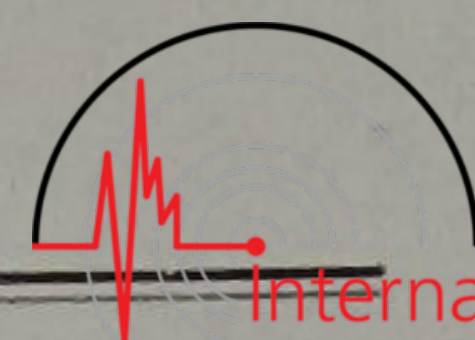
No.	Date.	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
243	July 1	eP	2 49 54.0					252	In the Kuzyukuri-hama.
		S	2 50 27.9						
		Mz	2 51 11.2	1.4		-5			
		ME	2 51 12.6	2.4	-22				
		MN	2 51 22.7	2.4		+9			
		F	2 58 20-						
244	" 2	eP	6 03 35.3				175	Near Wakayama city.	
		S	6 03 58.8						
		F	6 08 36-						
245	" 2	P	11 46 56.4				6240	A distant earthquake.	
		L	11 54 45.2						
		F	12 24 50-						
246	" 2	eP	12 51 52.8				171	S part of the Kii-Straits.	
		S	12 52 15.8						
		F	12 54 20-						
247	" 2	eP	13 42 29.2				62	Near the city of Nagoya.	
		S	13 42 37.6						
		F	13 43 56-						
248	" 3	P	20 51 53.5				275	Near Kuji in Ibaraki pref.	
		S	20 52 30.5						
		F	20 54 45.0						
249	" 3	e	22 53 28.2					Near the city of Nagano.	
		F	22 59 54-						
250	" 4	P	0 23 45.2				202	φ138.0°E, λ36.9°N. Near Mt. Yakeyama in Niigata pref. The shock was felt in Niigata and Nagano pref.	
		S	0 24 12.5						
		Mz	0 24 33.0	1.8		+35			
		ME	0 24 38.3	1.6	-89				
		MN	0 24 48.5	1.4		-89			
		F	covered						
251	" 4	P	0 28 31.0				184	Ditto	
		S	0 28 55.8						
		MN	0 29 20.2	1.6		-67			
		ME	0 29 20.5	1.7	+90				
		Mz	0 29 22.2	1.6		-24			
		F	covered						





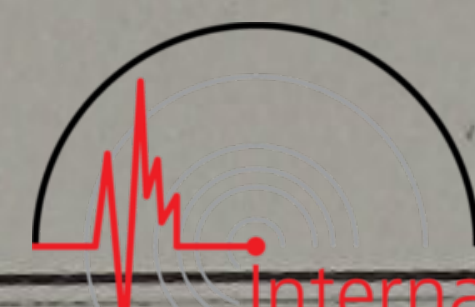
No.	Date	Phase	Time 135°E M. O. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
			h m s	s	μ	μ	μ	km.	
252	July 4	P	0 37 04.2					166	Near Mt. Yakeyama in Niigata pref.
		S	0 37 26.6						
		F	0 40 47-						
253	" 4	P	15 04 30.2				5940	A distant earthquake.	
		L	15 12 03.2						
		F	15 36 35-						
254	" 4	P	15 48 04.0				5879	Ditto.	
		L	15 55 33.7						
		F	16 20 43-						
255	" 4	P	16 35 17.9				5985	Ditto	
		L	16 42 53.2						
		F	17 10 35-						
256	" 5	P	7 41 04.9				187	Mt. Yakeyama in Niigata pref.	
		S	7 41 30.0						
		F	7 47 17-						
257	" 9	eP	13 09 41.9				912	In the bay of Titiwai in Nagasaki pref.	
		S	13 11 21.1						
		F	13 19 18-						
258	" 9	P	14 15 17.4				266	139.9°E, 36.1°N. Near Simozuma in Ibaraki pref. The moderate shock was felt near the center.	
		S	14 15 53.2						
		MN	14 16 09.5	1.1		-16			
		Mz	14 16 12.9	1.5					+7
		ME	14 16 15.1	1.1	+16				
		F	14 25 43-						
259	" 9	P	15 05 47.7				1010	Sea off the mouth of the river Abukuma in Miyagi pref.	
		S	15 07 36.7						
		F	15 12 44-						
260	" 10	P	6 30 21.9				139	Epicenter unknown.	
		S	6 30 40.5						
		F	6 34 12-						
261	" 11	e	5 50 09.4					A distant shock.	
		F	5 57 43-						
262	" 11	eP	22 07 10.7				550	ENE. sea off Hatizyo Is.	
		eS	22 08 11.7						
		F	22 12 44-						





No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
263	July 11	iP	22 40 44.8		$\mu$ -8	$\mu$ +5	$\mu$ +2	540	ESE. sea off Hatizyo Is.
		S	22 41 45.0						
		MN	22 42 06.8	2.6		-106			
		Mz	22 42 21.1	2.4			$\pm 15$		
		ME	22 42 58.8	3.1	+108				
		F	22 59 25-						
264	" 11	eP	23 57 29.8				920	Ditto.	
		eS	23 59 10.8						
		F	0 03 16-						
265	" 12	eP	0 09 09.6				372	Ditto.	
		S	0 09 59.8						
		F	0 14 37-						
266	" 12	e	4 21 22.9					Near Isigaki Is.	
		F	4 26 31-						
267	" 15	P	7 29 27.2				416	ENE. sea off Hatizyo Is.	
		S	7 30 23.2						
		MN	7 31 18.2	3.5		+58			
		ME	7 31 33.7	-	-67				
		F	7 47 26-						
268	" 15	eP	7 59 05.0				427	Ditto.	
		S	8 00 02.6						
		F	8 08 43-						
269	" 16	eP	4 08 36.5				2690	A distant shock.	
		eS	4 12 56.5						
		F	4 22 27-						
270	" 16	e	13 43 29.5					Near the city of Yamagata.	
		F	13 46 42-						
271	" 16	eP	19 19 39.5				590	E. sea off Hatizyo Is.	
		S	19 20 44.4						
		F	19 34 28-						
272	" 17	eP	4 36 00.1				308	SE. sea off Hatizyo Is.	
		eS	4 36 41.6						
		F	4 39 23-						
273	" 17	e	16 59 15.1					Near Naze.	
		F	17 04 24-						





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.	
274	July 18	eP	1 54 34.1					309	In the bay of Ise (deep focus)
		S	1 55 15.8						
		F	2 00 38—						
275	" 18	eP	3 41 56.4					1010?	E. sea off Miyake Is
		S	3 43 11.3						
		ME	3 43 34.2	2.8	+18				
		MN	3 43 41.2	2.6		-15			
		F	3 52 27—						
276	" 19	eP?	12 00 45.3						A distant shock.
		S	12 01 36.6						
		F	12 10 27—						
277	" 20	e	4 54 18.9						A distant shock. Near Marianne Is.
		F	5 02 18—						
278	" 21	P	9 10 17.4		+5.2	+8.3	-4.9	1166	145°E. 146°N. E. sea off Nakasiretoke cape. (deep focus) The shock were felt at SW. part of Hokkaido and N. part of Tohoku districts.
		S	9 12 22.0						
		ME	9 12 34.0	3.2	+8				
		MN	9 12 36.8	2.5		+4			
		F	9 18 19—						
279	" 22	P	14 03 12.4					341	NE. sea off the cape of Sioya.
		S	14 03 58.3						
		ME	14 04 25.8	2.2	+15				
		Mz	14 04 26.1	1.3		-9			
		MN	14 04 35.9	2.1		+11			
		F	14 12 15—						
280	" 22	eP	18 13 59.1					239	Near Yakioka in Ibaraki pref.
		S	18 14 31.2						
		F	18 17 32—						
281	" 23	P	2 18 49.3					12043	A distant earthquake
		L	2 31 12.0						
		ME	2 40 03.2	21.5	+142				
		MN	2 41 15.8	20.5		+76			
		F	3 13 36—						
282	" 23	P	4 00 02.0					42	Near Mino in Gihu pref.
		S	4 00 07.6						
		ME	4 00 07.8	0.1<	-16				
		MN	4 00 07.8	0.1<		+10			
		Mz	4 00 08.1	0.1<					
		F	4 05 26—						

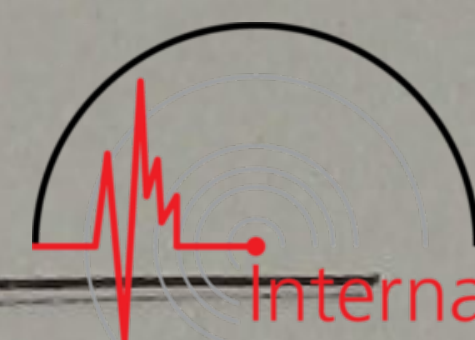


No.	Date.	Phase.	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
283	July 25	P	0 22 03.8					1480	SE. sea off Titizima.
		S	0 24 38.8						
		F	0 33 30—						
284	" 26	e	13 04 21.6						
		F	13 12 20—						
285	" 27	P	4 57 51.6					606	φ142.0°E, λ38.2°N. E. sea off Kinkwazan. The shock were felt in the greather parts of Tohoku, Kwanto and a part of Tyubu, Hokkaido districts.
		S	4 58 58.2						
		Mz	4 59 18.7	2.5		+250			
		MN	4 59 26.7	2.5		+2300			
		ME	4 59 48.2	2.5	±1500				
286	" 27	e	16 37 03.8						Sea off Kinkwazan.
		F	16 39 43—						
287	" 28	eP	13 28 28.2					39	Near the city of Nagoya.
		S	13 28 33.4						
		ME	13 28 33.8	0.1<		+6			
		F	13 30 33—						
288	" 29	e	7 53 58.3						Epicentre unknown.
		F	7 56 34—						
289	" 30	P	2 30 22.9					398	SE. sea off Kinkwazan.
		S	2 31 16.6						
		F	2 38 44—						
290	" 30	P	15 54 19.2					90	Near the city of Hamamatu.
		S	15 54 31.3						
		F	15 57 47—						
291	" 31	P	11 10 26.4					194	φ134.7°E, λ33.9°N. Near the mouth of the river Naka in Tokusima pref. Moderate shock were felt at Tokusima and Wakayama city.
		S	11 10 52.5						
		MN	11 10 54.4	1.2		+101			
		Mz	11 10 57.5	1.1		+28			
		ME	11 11 00.8	1.3	±48				
		F	11 22 17.0						
292	" 31	eP	19 50 27.0					719	SE. sea off Hatizyo Is.
		S	19 51 45.9						
		Mz	19 51 50.2	1.7		±7			
		MN	19 52 17.3	2.4		-33			
		ME	19 52 24.2	2.7	+31				
			20 03 27—						



No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
293	Aug. 1	P	5 08 14.8		μ	μ	μ	42	The lower course of the river Yahagi in Aiti pref.
		S	5 08 20.5						
		F	5 09 37—						
294	" 1	P	5 39 57.8					3420	In the E. Mongolia.
		S	5 45 09.8						
		MN	5 45 59.3	3.2		-67			
		ME	5 46 01.6	3.3	+114				
		F	6 06 39—						
295	" 1	eP	19 45 13.0					3620	Ditto.
		S	19 50 37.8						
		MN	19 50 51.5	3.3		-51			
		ME	19 52 05.3	3.4	+52				
		F	20 05 35—						
296	" 2	e	11 29 13.9						Sea off Hatizyo Is.
		F	11 31 19—						
297	" 3	eP	0 50 06.1					2055	S. part of Okhotsk sea.
		S	0 53 34.0						
		F	0 59 27—						
298	" 3	eP	20 20 22.3					167	In the bay of Yuasa in Wakayama pref.
		S	20 20 44.8						
		F	20 22 18—						
299	" 4	eP	8 10 07.3					610	ψ141.1°E, λ35.9°N. Sea off Inubo cape. A shock was felt at E. coast of Kwanto.
		S	8 11 14.3						
		MN	8 11 22.7	2.8		±78			
		ME	8 11 35.2	2.7	+59		-15		
		Mz	8 11 38.5	2.1					
		F	8 22 26—						
300	" 4	eP	19 06 33.7					123	Near Wakayama city.
		S	19 06 50.3						
		F	19 08 12—						
301	" 5	eP	0 40 18.0					439	NE. sea off Inubo cape.
		S	0 41 17.2						
		F	0 43 18—						
302	" 5	eP	0 45 08.2					377	Ditto.
		S	0 45 59.0						
		F	0 48 26—						



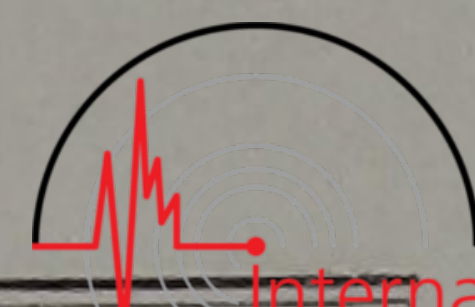


No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			Δ Epicentre- distance km.	Remarks
					AE	AN	Az		
303	Aug. 5	e F	8 44 02.4 8 48 48—		μ	μ	μ		In the bay of Osaka.
304	" 5	eP S F	11 16 08.1 11 17 31.1 11 21 12—					760	φ142.0°E, λ39.6°N. Near Miyako in Iwate pref. Moderate shock was felt near the centre.
305	" 5	iP S F	18 06 02.2 18 06 29.8 18 10 14—		-5.2	+1.0	+5.0	204	In the bay of Sagami.
306	" 5	eP S? F	23 51 34.0 23 53 01.0 0 03 26—						A distant shock.
307	" 7	e F	0 56 55.5 0 59 18—						Near Hatizyo Is.
308	" 8	eP S F	19 16 08.2 19 19 37.3 19 30 37—					2070	A distant shock. Near Marianne Is.
309	" 9	eP S ME MN F	7 40 57.0 7 41 58.2 7 42 03.4 7 42 21.0 7 48 29—	2.6 2.4	+13	+13		550	Sea off Iwaki.
310	" 9	e F	21 39 39.0 21 47 18—						Near Titijima.
311	" 9	eP S F	23 41 36.5 23 44 40.2 0 01 32—					1790	Ditto.
312	" 10	eP S F	1 40 17.9 1 42 38.2 1 47 22—					1320	Ditto.
313	" 10	eP S? F	4 20 12.1 4 20 57.0 4 25 37—						Ditto.
314	" 10	e F	11 48 13.2 11 51 26—						Ditto.



No.	Date	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
315	Aug. 11	P	10 03 24.9					4185	A distant shock. Near Celebes Is.
		S	10 09 22.4						
		M <sub>E</sub>	10 09 34.7	3.4	+41				
		M <sub>N</sub>	10 09 34.7	3.0		+65			
		F	10 33 33 -						
316	" 14	e	3 13 11.7					713	W. foot of Mt. Tukuba.
		F	3 16 20 -						
317	" 15	eP	13 31 58.9					586	Epicentre unknown.
		S	13 33 17.2						
		M <sub>E</sub>	13 33 19.5	2.5	-12				
		M <sub>N</sub>	13 33 24.5	2.5		+9			
		F	13 42 48 -						
318	" 15	eP	18 58 34.7					428	NE. sea off Hatizyo Is
		S	18 59 39.3						
		M <sub>N</sub>	19 00 30.6	2.8		-11			
		M <sub>E</sub>	19 00 53.2	3.0	+10				
		F	19 10 19 -						
319	" 15	eP	21 19 19.3					58	SW. part of Nara pref.
		S	21 20 17.0						
		M <sub>E</sub>	21 20 49.3	1.8	-5				
		M <sub>N</sub>	21 21 09.6	1.8		+4			
		F	21 26 52 -						
320	" 16	P	15 40 47.9					86	The upper course of the river Ado in Siga pref.
		S	15 40 55.6						
		M <sub>N</sub>	15 40 56.0	0.8		+6			
		M <sub>E</sub>	15 40 56.5	0.8	+10				
		F	15 46 56 -						
		iP	1 38 51.4		-8.2	+3.7	-36.6		
321	" 17	S	1 39 03.0					724	ESE. sea off Hatizyo Is.
		M <sub>E</sub>	1 39 04.9	1.1	-249				
		M <sub>N</sub>	1 39 08.1	1.1		-260			
		M <sub>Z</sub>	1 39 08.3	0.9			+101		
		F	1 50 09 -						
		P	22 11 24.1						
322	" 17	S	22 12 43.5					724	ESE. sea off Hatizyo Is.
		M <sub>E</sub>	22 12 45.4	3.3	+17				
		M <sub>N</sub>	22 12 57.1	3.3		-23			
		F	22 24 12 -						



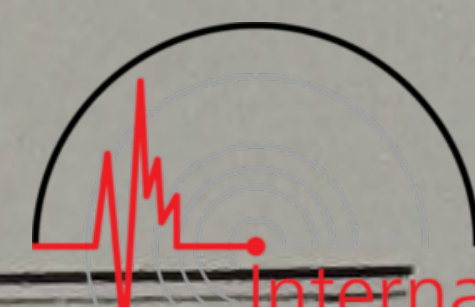


No.	Date	Phase.	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance km.	Remarks
							ΔE	ΔN	ΔZ		
			h	m	s	s	μ	μ	μ		
323	Aug. 18	e	14	02	47.6					Near Titijima.	
		F	14	11	10—						
324	" 18	e	15	27	06.5					SE. sea off Kinkwazan.	
		F	15	32	08—						
325	" 19	P	2	55	22.7				760	φ142.3°E, λ40.2°N. Sea off Kuji in Iwate pref. A shock was felt in the NE. part of Tohoku. district.	
		S	2	56	45.7						
		ME	2	57	23.1	2.9	±10				
		MN	2	57	38.4	2.7		-13			
		F	3	05	19—						
326	" 20	P	5	33	22.7				1157	In the bay of Ariake in Kagosima pref.	
		S	5	35	26.4						
		F	5	45	54—						
327	" 20	e	15	50	10.9					Epicentre unknown.	
		F	15	58	15—						
328	" 20	P	21	04	41.0				2768	Neighbourhood of the Philippine Is.	
		S	21	09	06.8						
		ME	21	15	03.2	10.7	+228				
		MN	21	15	18.2	10.8		-394			
		F	22	56	02—						
329	" 21	P	17	08	50.3				211	In the Kasima-nada.	
		S	17	09	18.7						
		MN	17	09	51.3	1.3		-5			
		ME	17	09	55.7	1.2	+6				
		F	17	13	14—						
330	" 21	eP	17	40	07.2				300	Sea off Sioya cape	
		S	17	40	47.6						
		MN	17	41	18.3	1.2		-6			
		F	17	45	54—						
331	" 22	P	2	40	49.6				332	φ141.7°E, λ38.0°N. Sea off Kinkwazan. Slight shock was felt in the E. part of Oou district.	
		S	2	41	41.1						
		ME	2	42	03.4	1.8	-6				
		MN	2	42	09.9	2.0		+7			
		F	2	46	50—						
332	" 22	eP	4	03	52.9				163	Near the city of Nagano.	
		S	4	04	14.8						
		F	4	06	52—						



No.	Date	Phase	Time 135°E M. C. T	Per'od	Amplitude			△ Epicentre- distance	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
333	Aug. 22	P	8 03 32.6					739	SE. sea off Hatizyo Is.
		S	8 04 53.5						
		ME	8 05 16.0	2.0	-12				
		MN	8 05 16.9	2.6		+12			
		F	8 13 05-						
334	" 24	P	12 24 10.3					59	The course of the river Toki in Gihu pref.
		S	12 24 18.3						
		Mz	12 24 18.4	0.4			+5		
		MN	12 24 18.6	0.7		+8			
		ME	12 24 18.7	0.9	+8				
		F	12 28 36-						
335	" 25	e	3 39 12.7						A distant shock.
		F	3 45 35-						
336	" 26	eP	1 30 38.0					428	In the Kasima-nada
		S	1 31 35.6						
		F	1 34 36-						
337	" 26	eP	1 44 56.7					307	In the Kumano-nada. (deep focus)
		S	1 45 38.1						
		ME	1 45 40.3	3.0	+13				
		MN	1 45 44.6	2.6		+7			
		F	1 51 45-						
338	" 26	P	19 09 08.6					146	In the bay of Ise
		S	19 09 28.3						
		F	19 11 31-						
339	" 27	eP	0 07 28.1					659	SE sea off Hatizyo Is.?
		S	0 08 40.0						
		F	0 13 56-						
340	" 27	eP	0 14 27.7					633	Ditto.
		S	0 15 37.0						
		F	0 20 35-						
341	" 27	P	3 55 41.8					1075	ϕ131.5°E, λ31.4°N. S. part of the Hyuga-nada. Felt in the greter part of Kyusyu district.
		S	3 57 37.3						
		MN	3 57 52.4	3.0		+91			
		ME	3 58 50.0	2.5	-60				
		F	4 14 00-						
342	" 28	e	19 42 41.2						In the bay of Tanabe in Wakayama. pref.
		F	19 43 47-						





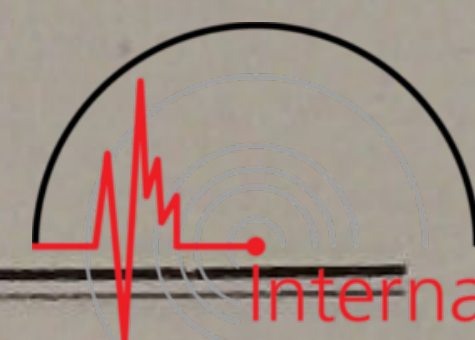
No.	Date	Phase	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance	Remarks
							A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h	m	s	s	μ	μ	μ	km.	
343	Aug	eP	23	25	42.4					361	Near the mouth of the river Naka in Ibaraki pref.
		S	23	26	31.0						
		F	23	29	22-						
344	" 29	eP	16	07	55.2					1114	S. part of the Hyuga-nada.
		S	16	09	54.6						
		MN	16	10	28.2	2.4		-7			
		ME	16	10	42.8	2.6	+5				
		F	16	17	30-						
345	" 30	P	9	40	16.0					43	In the sea off Tita peninsula.
		S	9	40	21.8						
		Mz	9	40	22.2	0.1<			-6		
		ME	9	40	22.5	0.1<	-24				
		MN	9	40	22.6	0.1<		+18			
		F	9	42	49-						
346	" 31	e	11	37	46.1						Epicentre unknown
		F	11	43	45-						
347	" 31	P	23	22	07.2					11430	A distant earthquake.
		L	23	34	05.4						
		MN	23	35	55.6	16.1		-111			
		ME	23	37	48.8	13.8	+45				
		F	23	53	54-						
348	Sept. 1	eP	7	07	38.9					867	E. sea off Miyako.
		S	7	09	13.6						
		F	7	14	02-						
349	" 1	e	17	50	45.3						A distant shock.
		F	17	56	57-						
350	" 1	eP	19	53	55.4					433	Sea off Hatizyo Is.
		S	19	54	53.8						
		F	19	57	29-						
351	" 2	eP	2	57	27.6						SE sea off Amami-Osima
		S?	2	59	43.9						
		F	3	04	03-						
352	" 2	eP	3	33	10.6					225	The course of the river Dosi in Ysmanasi pref.
		S	3	33	40.9						
		F	3	34	50-						





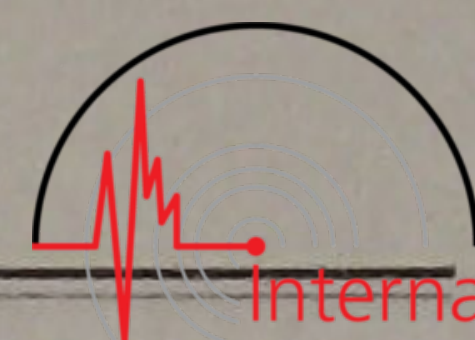
No.	Date.	Phase.	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
353	Sept 2	eP	4 42 05.3					170	Near the city of Wakayama.
		S	4 42 28.2						
		F	4 43 52-						
354	" 2	e	6 58 21.0						A distant shock.
		F	7 02 59-						
355	" 3	eP	7 29 48.1					165	Near the city of Nagano.
		S	7 30 10.4						
		F	7 33 34-						
356	" 3	eP	18 03 27.0					354	Sea off Inubo cape.
		S	18 04 07.7						
		F	18 05 56-						
357	" 4	eP	3 55 13.0						A distant shock. Near the Aleutian Is.
		S?	3 57 15.0						
		MN	3 57 19.9	2.7		-27			
		ME	3 58 01.5	2.9	-38				
		F	4 21 46-						
358	" 5	eP	2 45 05.9					104	Near the city of Kyoto.
		S	2 45 19.9						
		F	2 46 38-						
359	" 5	eP	14 54 05.9					316	Near Izu-Oosima.
		S	14 54 48.4						
		F	14 57 22-						
360	" 6	e	6 01 14.0						A distant shock. Near Palao Is.
		F	6 11 40-						
361	" 7	eP	1 03 36.0					313	ϕ140 6°E, λ36.4°N. Near the mouth of the river Naka in Ibaraki pref. The shock felt in the greater parts of Kwanto and a part of Tohoku and Tyubu diatricts
		S	1 04 18.2						
		Mz	1 04 39.2	1.6		-31			
		ME	1 04 55.2	1.4	+51				
		MN	1 04 57.2	1.4		+51			
		F	1 12 32-						
362	" 8	eP	7 53 00.0					302	Ditto.
		S	7 53 40.7						
		MN	7 54 10.0	1.5		+33			
		ME	7 54 13.2	1.5	-28				
		F	8 01 12-						





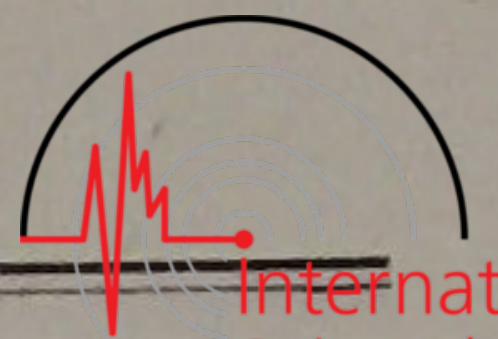
No.	Date	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
363	Sept 8	P	Covered						A distant shock.
		S	10 00 33.7						
		F	10 11 52-						
364	" 9	eP	6 26 24.1					164	N. sea off the bay of Wakasa.
		S	6 26 46.6						
		MN	6 26 53.6	1.3		+14			
		ME	6 26 54.1	1.3	-15				
		F	6 30 52-						
365	" 9	eP	16 39 27.1					246	In the Kasima-nada.
		S	16 40 00.2						
		F	16 42 58-						
366	" 11	e	0 5 50.5						SE. sea off Kinkwazan.
		F	0 12 40-						
367	" 13	eP	4 37 36.8					560	φ142.1°E, λ36.4°N. ENE. sea off Kinkwazan. The slight shock was felt at E. part of Tohoku.
		S	4 38 38.8						
		F	4 44 33-						
368	" 15	iP	21 36 32.1		-6.2	+9.2	+12.2	5525	A distant earthquake. Near New-Guinea Is.
		S	21 43 43.4						
		ME	21 43 47.0	3.5	+105				
		Mz	21 43 47.0	4.0			+7		
		MN	21 43 47.5	3.7		-63			
		F	22 06 58-						
369	" 15	e	23 39 59.9						Sea off Erimo cape.
		F	23 43 38-						
370	" 16	e	0 49 34.3						Sea off Inubo cape.
		F	0 54 41-						
371	" 16	eP	19 02 03.7					1890	SW. sea off Horomusiro Is.
		S	19 05 17.1						
		F	19 10 47-						
372	" 17	eP	1 46 37.2					149	S. part of Nara pref.
		S	1 46 57.4						
		F	1 48 38-						
373	" 17	eP	16 18 53.8					335	In the Kasima-nada.
		S	16 19 39.0						
		F	16 22 45-						





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.	
374	Sept. 21	e F	6 19 53.0 6 21 52-						In the Iyo-nada.
375	" 21	P eL F	Covered 17 05 04.2 17 24 54-						A distant shock.
376	" 21	P S MN ME F	18 46 35.6 18 52 03.7 18 52 08.4 18 52 20.7 19 02 41-	3.3 3.2	+10	-7		3677	A distant earthquake.
377	" 22	P S F	3 55 14.5 3 55 24.9 3 56 41-					77	In the Kii-streits.
378	" 22	P S F	12 16 45.2 12 21 46.0 12 36 47-					3252	A distant earthquake.
379	" 22	eP eS F	23 23 41.2 23 25 16.0 23 30 44-					868	E. sea off Hatizyo Is.
380	" 23	P S L MN F	22 14 06.9 22 20 12.0 22 24 57.0 22 30 16.1 23 37 53-	15.5		-90		4317	A distant earthquake. N. sea off Solomon Is.
381	" 24	e F	1 09 38.4 1 11 41-						Sea off Sioya cape.
382	" 27	P S MN ME F	3 27 41.4 3 27 47.7 3 27 48.0 3 27 48.3 3 28 48-	0.1< 0.1<	-5	+8		47	Near the city of Gihu.
383	" 27	P S ME F	7 03 48.5 7 03 54.1 7 03 54.2 7 05 09-	0.1<	-3			42	Near the city of Nagoya.





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.	
384	Sept. 27	P	15 15 53.4					294	ϕ141.7°E, λ36.5°N SE. sea off Sioya cape. The Slight shock were felt in the S. part of Tohoku and NE. part of Kwanto districts.
		S	15 16 33.1						
		ME	15 17 33.3	2.4	-18				
		MN	15 17 35.7	2.0		+13			
		F	15 22 54 -						
385	" 27	P	18 03 52.9				5784	A distant earthquake Near Sumatra Is.	
		S	18 11 17.6						
		L	18 18 52.9						
		F	18 49 00 -						
386	" 27	P	22 24 11.7				249	ϕ140.5°E, λ35.0°N SE. sea of Katuura. Slight shock was felt at E. part of Kwanto.	
		S	22 24 45.2						
		ME	22 25 03.7	1.2	+7				
		MN	22 25 06.8	1.2		+7			
		F	22 28 16 -						
387	" 27	P	23 21 01.0				10	Near Mt. Tukuba.	
		S	23 21 15.3						
		F	23 22 20 -						
388	" 28	P	22 24 36.5				3678	A distant earthquake Near Borneo Is.	
		S	22 30 04.7						
		ME	22 30 10.7	3.5	+11				
		MN	22 30 12.2	3.0		+12			
		F	22 43 05 -						
389	" 29	P	7 55 33.4				267	ϕ139.9°E, λ36.2°N. Near Yuuki in Ibaraki pref. The shock felt in The greater parts of Kwanto, S. Oou and E. Tyubu districts.	
		S	7 56 09.3						
		ME	7 56 28.7	1.4	-90				
		MN	7 56 31.9	1.2		+106			
		MZ	7 56 40.4	1.2					-41
		F	8 08 48 -						
390	" 29	P	22 06 46.1				260	In the Kasumigaura.	
		S	22 07 21.1						
		F	22 09 43 -						
391	" 30	P	2 43 53.7				176	Sea off Omaezaki.	
		S	2 44 17.4						
		F	2 47 16 -						
392	" 30	P	3 29 23.8				179	Ditto.	
		S	3 29 47.9						
		F	3 32 44 -						





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.	
393	Sept. 30	e	22 05 05.2						Epeentre unknown.
		F	22 08 11—						
394	Oct. 3	P	8 50 12.3					365	N. part of the Kasima-nada.
		S	8 51 01.4						
		Mz	8 51 10.6	1.5			-3		
		ME	8 51 13.6	1.6	+10				
		MN	8 51 19.4	1.6		+6			
F	8 56 19—								
395	" 4	P	5 39 06.5					895	N part of the Hyuga-nada.
		S	5 40 44.0						
		MN	5 41 09.7	2.0			+3		
		ME	5 41 19.2	2.0	+4				
		F	5 48 22—						
396	" 4	P	9 15 43.7					58	Near the city of Nagano.
		S	9 15 51.4						
		F	9 17 67—						
397	" 4	P	19 17 51.9					317	Sea off Miyake Is
		S	19 18 34.6						
		F	19 21 25—						
398	" 4	P	19 28 32.9					289	Ditto.
		S	19 29 11.9						
		F	19 31 26—						
399	" 4	P	19 38 54.9					180	NW. sea off Niijima Is.
		S	19 39 19.2						
		MN	19 39 41.9	1.4			-7		
		ME	19 39 47.7	1.4	-6				
		Mz	19 39 47.7	1.0			+4		
		F	19 45 27—						
400	" 4	P	19 48 28.2					225	Sea off Miyake Is.
		S	19 48 58.4						
		F	19 52 47—						
401	" 4	e	20 27 41.6						Ditto.
		F	20 30 05—						
402	" 4	eP	22 17 48.1					285	Ditto.
		S	22 18 26.5						
		F	22 20 03—						

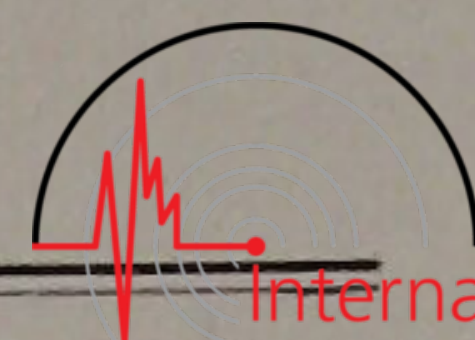


No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks				
					AE	AN	Az						
			h m s	s	μ	μ	μ	km.					
403	Oct. 5	eP	2 14 42.0					191	Sea off Miyake Is.				
		S	2 15 07.7										
		F	2 17 05—										
404	" 7	P	0 05 30.1					163	Epicentre unknown.				
		S	0 05 52.0										
		F	0 08 38.0										
405	" 7	e	2 13 08.7						A distant shock. Near Solomon Is.				
		F	2 18 58—										
406	" 10	P	2 25 01.6	1.6				396	Sea off Sioya cape				
		S	2 25 55.0										
		MN	2 26 04.9										
		F	2 31 19—										
407	" 11	eP	1 36 46.0					337	Near Oosima in Yamaguti pref.				
		S	1 37 31.4										
		F	1 40 06—										
408	" 11	eP	5 15 56.5					139	Near Kameyama.				
		S	5 16 15.2										
		F	5 17 02.2										
409	" 12	eP	2 11 06.3					1440	146.2°E, 143.3°N. E. sea off Nosyahu cape.				
		S	2 13 37.3										
		F	2 18 20—										
410	" 12	eP	2 27 31.1					141	Central part of Sizuoka pref.				
		S	2 27 50.1										
		F	2 28 56—										
411	" 12	iP	21 35 41.3					48	Near the city of Yokkaiti.				
		S	21 35 47.8										
		ME	21 35 47.9							<0.1	-36		
		MN	21 35 47.9							<0.1		+20	
		Mz	21 35 47.9							<0.1			+17
		F	21 39 03—										
412	" 13	e	6 10 53.3						Epicentre unknown.				
		F	6 12 54—										
413	" 15	P	9 07 01.6					88	The upper course of the river Kuzuryu.				
		S	9 07 13.5										
		F	9 08 52—										



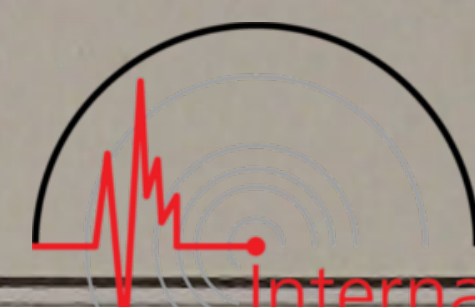
No.	Date	Phase	Time 135°E M. C. T	Per od	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
414	Oct. 15	e	17 54 55.4						The mouth of the river Kuji in Ibaraki pref.
		F	17 56 17-						
415	" 15	e	23 50 52.2						In the Kasima-nada.
		F	23 53 14-						
416	" 17	iP	13 47 58.9					570	141.0°E, 35.5°N. SE. sea off Inubo cape. The shock felt in the all Kwanto, SE. part of Tohoku and Tyubu districts.
		S	13 49 02.3						
		Mz <sup>1</sup>	13 49 09.5	2.4		+283			
		M <sub>K</sub>	13 49 12.8	3.0	±1100				
		Mz <sup>2</sup>	13 49 17.7	2.2		-290			
		MN	13 49 42.7	3.2	+2000				
417	" 17	eP	14 11 27.3					369	Ditto.
		S	14 12 17.0						
		F	14 15 13-						
418	" 17	eP	14 28 20.9					335	Ditto
		S	14 29 06.1						
		F	14 33 03-						
419	" 17	eP	22 33 39.2					560	Ditto.
		S	22 34 41.1						
		ME	22 34 56.0	2.5	-113				
		MN	22 34 57.1	2.6		-122			
		Mz	22 35 07.4	1.8			+37		
F	22 46 56-								
420	" 17	eP	23 05 43.4					345	Ditto.
		S	23 06 30.0						
		F	23 11 14-						
421	" 17	e	23 23 04.1						Ditto
		F	23 25 58-						
422	" 18	e	0 44 06.0						Ditto.
		F	0 45 58-						
423	" 18	e	2 57 49.4						Ditto.
		F	3 00 02-						
424	" 18	eP	4 10 04.5					417	Ditto.
		S	4 11 00.6						
		MN	4 11 06.4	2.2		+62			
		ME	4 11 08.6	2.2	+53				
		F	4 19 05-						





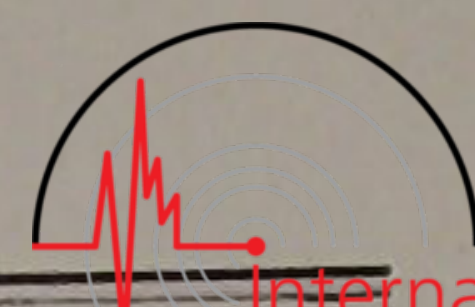
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance km.	Remarks
					AE μ	AN μ	Az μ		
425	Oct. 19	e F	11 25 45.6 11 26 58—					Near Wakayama city.	
426	" 21	eP S F	5 12 40.5 5 13 45.5 5 17 26—				590	ESE. sea off Inubo cape.	
427	" 22	P S ME MN F	6 47 43.3 6 47 46.7 6 47 46.8 6 47 46.8 6 49 47—	<0.1 <0.1	-8 -6		25	Near Gihu city.	
428	" 23	iP(z) S(z) Mz ME MN F	12 02 48.2 12 03 15.9 12 03 16.4 12 03 17.5 12 04 09.6 Covered	1.7 1.9 2.5	+2.3 +2.8 -45 +41	-3.7 -17	205	SE sea off Hatizyo Is.	
429	" 23	P S MN Mz ME F	12 12 13.9 12 12 38.8 12 12 56.8 12 13 00.9 12 13 13.7 12 20 51—	1.9 1.4 1.6	-9 +30	±10	185	Ditto.	
430	" 23	P S F	13 43 55.2 13 44 27.0 13 50 18—				236	Near Miyake Is.	
431	" 23	P S F	23 32 31.9 23 33 04.3 23 35 30—				241	Central part of the Kuzyukuri-hama.	
432	" 23	e F	23 49 43.9 23 52 53—					Epicentre unknown.	
433	" 24	eP S MN ME F	0 58 56.5 0 59 02.6 0 59 02.8 0 59 03.3 1 00 26—	<0.1 <0.1	-4 -8		45	Near the city of Nagoya.	
434	" 24	eP S F	8 10 17.3 8 10 46.7 8 13 48—				218	In the Akasi straits.	





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.	
435	Oct 24	P	19 10 44.3	1.5	+6			278	Sea off Kuzyukuri-hama.
		S	19 11 21.7						
		ME	19 12 10.1						
		F	19 17 59-						
436	" 24	eP	20 52 53.4					243	Ditto.
		S	20 53 26.1						
		F	20 55 51-						
437	" 25	eP	15 22 29.2					207	Ditto.
		S	15 22 57.1						
		F	15 25 55-						
438	" 25	e	15 46 41.1						Near Sirakawa.
		F	15 48 51-						
439	" 25	P	17 14 31.4					277	W. sea off Hatizyo Is.
		S	17 15 08.6						
		F	17 18 24-						
440	" 26	eP	2 18 07.5					176	Near Mt. Tukuba?
		S	2 18 31.2						
		F	2 20 47-						
441	" 26	P	4 06 28.0					200	SW. part of Ibaraki pref.
		S	4 06 54.9						
		F	4 09 57-						
442	" 26	P	8 25 08.8					2222	A distant shock. S. sea off Kamtchatka.
		S	8 28 51.0						
		F	8 39 04-						
443	" 26	e	22 05 51.1						Epicentre unknown.
		F	22 08 17-						
444	" 28	e	3 58 41.0						Ditto.
		F	4 02 09-						
445	" 29	e	16 35 34.0						A distant shock.
		F	16 39 51-						
446	" 31	P	9 32 42.3					272	Near Sakai in Ibaraki pref.
		S	9 33 19.0						
		F	9 35 55-						



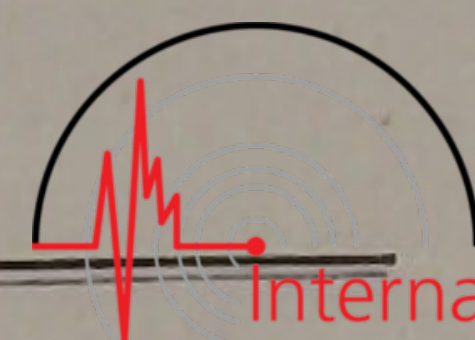


No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AG	AN	Az		
			h m s	s	μ	μ	μ	km.	
447	Oct. 31	eP	23 01 01.9					390	ENE. sea of Sioya cape.
		S	23 01 54.4						
		F	23 06 19-						
448	Nov. 1	e	21 12 15.5						Ditto.
		F	21 14 59-						
449	" 5	P	1 23 36.6					74	Near Tahara in Aiti pref.
		S	1 23 46.5						
		F	1 26 04-						
450	" 5	e	11 38 50.7						Near the city of Gihu.
		F	11 40 46-						
451	" 8	e	7 06 47.3						Mt. Tukuba.
		F	7 08 46-						
452	" 9	e	10 18 07.3						Near Nojiri in Miyazaki pref.
		F	Covered						
453	" 9	e	10 20 00.0						Ditto?
		F	10 21 49-						
454	" 12	e	19 33 03.9						Sea off Hatizyo Is.
		F	19 35 52-						
455	" 13	eP	2 11 30.2					904	E. sea off Hatizyo Is.
		S	2 13 08.6						
		F	2 17 52-						
456	" 14	iP	20 07 09.9		+7.2	+11.1	+4.9	7310	A distant shock. Near Iran.
		L	20 15 54.9						
		F	20 44 02-						
457	" 15	e	8 55 59.0						In the Bashee Channel.
		F	9 02 53-						
458	" 15	eP	9 16 10.5					1131	Sea off the Atukesi bay in Hokkaido.
		S	9 18 11.6						
		F	9 23 18-						
459	" 16	e	1 01 41.0						Near the city of Tiba.
		F	1 04 36-						
460	" 16	e	6 46 03.2						A distant shock.
		F	6 51 45-						



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.	
461	Nov. 16	P	7 51 13.5					205	W. part of the Tokyo city.
		S	7 51 41.2						
		ME	7 51 51.4	1.0	+10				
		MN	7 51 55.5	1.0		+9			
		F	7 56 45-						
462	" 17	P	1 19 24.2				323	Near Inubo cape.	
		S	1 20 07.7						
		F	1 23 46-						
463	" 18	P	4 07 40.1				272	In the Uraga straits.	
		S	4 08 16.8						
		F	4 10 58-						
464	" 18	e	11 55 57.4					A distant shock.	
		F	12 01 23-						
465	" 18	P	21 54 36.7				211	135.1°E, 33.7°N. In the Kii straits. The moderate shock was felt at Wakayama.	
		S	21 55 05.1						
		ME	21 55 14.1	2.4	+36				
		Mz	21 55 22.1	1.4		+12			
		MN	21 55 24.1	2.6		+38			
		F	22 01 40-						
466	" 21	iP	17 14 56.4		-1.1	+1.0	+4.0	88	The middle course of the river Ooi.
		S	17 15 08.3						
		MN	17 15 08.9	0.1		+18			
		ME	17 15 09.1	0.1	-18				
		F	17 18 07-						
467	" 22	eP	2 11 17.0				94	Ditto.	
		S	2 11 29.6						
		F	2 12 30-						
468	" 22	iP	13 53 52.2		-1.5	+0.9	-5.5	281	Near the city of Kyoto. (deep focus)
		S	13 54 30.0						
		ME	13 54 32.2	3.0	-37				
		MN	13 54 32.4	2.8		+18			
		Mz	13 54 51.4	2.2			+6		
		F	14 01 26-						
469	" 22	e	15 50 07.5					Near Hurukawa in Ibaraki pref.	
		F	15 51 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.	
470	Nov. 23	iP	2	39	37.8		+22.6			146	φ138.2°E, λ35.8°N. Near Mt. Kai-komagadake. The shock felt in the greater part of Tyubu, Kwanto and a part of Kinki districts
		S	2	39	57.5						
		ME	2	39	59.0	2.1	±500				
		MN	2	40	04.4	—			±250		
		F	2	40	09.3	2.1		±950			
		F	2	50	05—						
471	" 23	e	4	22	59.0						An after shock of No. 470.
		F	4	24	00—						
472	" 26	e	8	35	35.3						Near the city of Nagoya.
		F	8	37	01—						
473	" 26	eP	12	46	06.4					1650	φ142.4°E, λ42.3°N. Near the mouth of the river Niikkapu. The shock was felt in the S. part of Hokkado.
		S	12	48	57.0						
		MN	12	49	16.5	2.7		—7			
		ME	12	49	19.3	2.5	±7				
		F	12	56	24—						
474	" 26	eP	19	49	00.9					1670	φ123.1°E, λ24.1°N. S sea off Yonakuni Is. The shock felt in the greater part of Taiwan.
		S	19	51	54.1						
		F	19	59	53—						
475	" 27	P	0	37	37.0					408	φ141.0°E, λ35.7°N. Near Inubo cape. The shock felt in the greater part of Kwanto and S. Tohoku districts.
		S	0	38	32.0						
		MN	0	38	48.4	2.7		—174			
		Mz	0	38	50.3	1.9			—63		
		ME	0	38	52.3	2.5	+137				
		F	0	49	58—						
476	" 30	e	9	49	36.6						A distant shock.
		F	9	54	45—						
477	Dec. 1	eP	0	12	46.0						Near Narita in Tiba pref.
		S	0	13	09.8						
		F	0	15	25—						
478	" 1	eP	11	49	30.2					372	Near Inubo cape.
		S	11	50	20.3						
		ME	11	50	35.9	2.6	±49				
		MN	11	50	42.4	2.4		—74			
		Mz	11	50	51.9	1.9			—26		
		F	11	57	30—						



No.	Date	Phase	Time 135°E M. C. T		Per od	Amplitude			△ Epicentre- distance	Remarks
						AE	AN	Az		
			m	s	s	μ	μ	μ	km.	
479	Dec. 6	eP	5	52	22.6				351	ϕ140.0°E, λ36.2°N. Near Simozuma in Ibaraki pref
		S	5	52	56.4					
		F	5	56	21—					
480	" 6	eP	13	35	23.8				910	FSE. sea off Inubo cape
		S	13	37	02.8					
		ME	13	37	14.1	3.3	-171			
		Mz	13	37	26.4	2.0		-40		
		MN	13	37	32.3	3.1		-156		
		F	13	53	41—					
481	" 7	e	11	31	34.6				74	Ditto.
		F	11	33	40—					
482	" 7	P	23	54	52.0				43	Near the city of Nagoya.
		S	23	54	57.8					
		F	23	55	49—					
483	" 8	eP	9	27	09.1				74	Ditto.
		S	9	27	19.1					
		F	9	28	04—					
484	" 8	eP	17	36	27.6				2185	ϕ121.5°E, λ22.9°N. NE. sea off Taito. The shock were felt over Taiwan and Isigaki Is.
		S	17	40	06.2					
		MN	17	40	13.4	2.5		-26		
		MN	17	40	14.4	4.0	+28			
		F	18	04	49—					
485	" 9	e	5	42	47.9				40	Near Sakasita in Aiti pref.
		F	5	45	22—					
486	" 9	P	23	35	44.7				40	Near Sakasita in Aiti pref.
		S	23	35	50.1					
		MN	23	35	50.2	0.1		-18		
		ME	23	35	50.2	0.1	-11			
		F	23	37	32—					
487	" 10	eP	22	30	02.4				760	ESE. sea off Inubo cape.
		S	22	31	25.6					
		MN	22	31	28.7	3.2		+183		
		ME	22	31	44.9	3.3	-166			
		Mz	22	31	51.8	2.6		±36		
		F	22	46	33—					
488	" 11	eP	16	22	44.3				58	Near the city of Nagoya.
		S	16	22	52.0					
		F	16	23	53.0					



No.	Date	Phase	Time 135°E M. O. T			Period	Amplitude			△ Epicentre- distance	Remarks
							A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h	m	s	s	μ	μ	μ	km.	
489	Dec. 11	eP	22	41	18.2					767	ϕ142.3°E, λ40.2°N. E. sea off Kuji in Iwate pref. The shock were felt at NE. part of Tohoku and S. part of Hokkaido.
		S	22	42	41.9						
		M <sub>E</sub>	22	43	08.6	2.3	-13				
		M <sub>N</sub>	22	43	06.3	2.5		-13			
		F	22	49	18-						
490	" 14	P	3	58	18.0					2125	ϕ121.2°E, λ227°N. SE. sea off Taito. The shock was felt in the all Taiwan.
		S	4	01	52.3						
		M <sub>N</sub>	4	02	04.7	3.5		-33			
		M <sub>E</sub>	4	02	13.4	3.9	+30				
		F	4	26	40-						
491	" 14	eP	13	14	07.8					321	ENE. sea off Inubo cape.
		eS	13	14	51.1						
		F	13	18	18-						
492	" 14	e	16	19	47.3						In the Amakusa-nada.
		F	16	23	23-						
493	" 15	eP	20	34	25.0					661	ϕ142.0°E, λ41.6°N. ENE. sea off Siritaya cape. The shock were felt in the NE. part of Tohoku and S. part of Hokkaido.
		S	20	35	37.1						
		F	20	40	22-						
494	" 15	P	22	54	06.7					123	Near Syuzan in Kyoto pref.
		S	22	54	23.2						
		F	22	56	11-						
495	" 16	iP	18	36	41.7		+14.1	-7.2	-11.0	222	ϕ140.1°E, λ34.3°N. SSE. sea off Nojima cape. The shock felt in the greater parts of Kwanto and SE. part of Tohoku districts.
		S	18	37	11.6						
		M <sub>L</sub> <sup>1</sup>	18	37	30.7	1.1			+65		
		M <sub>Z</sub> <sup>2</sup>	18	37	36.7	1.3			-67		
		M <sub>N</sub>	18	37	39.6	2.7		+228			
		M <sub>E</sub>	18	37	54.9	2.5	-113				
		F	18	51	26-						
496	" 17	e	3	30	20.5						A distant shock.
		F	3	34	17-						
497	" 17	P	18	36	32.7					2140	ϕ121.4°E, λ22.9°N. NE. sea off Taito. The shock felt in the over Taiwan.
		S	18	40	08.0						
		M <sub>N</sub>	18	40	16.4	3.3		-15			
		M <sub>E</sub>	18	40	17.3	3.6	+22				
		F	19	02	28-						



No.	Date	Phase	Time 135°E M. C. T.	Per'od	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
498	Dec 18	e	19 44 31.7						ENE. sea off Inubo cape.
		F	19 49 06—						
499	" 18	e	22 27 02.3						Epicentre unknown.
		F	22 30 19—						
500	" 19	eP	13 44 48.9					351	Sea off the mouth of the river Naka in Ibaraki pref.
		S	13 45 36.1						
		M <sub>N</sub>	13 46 01.9	2.0		-17			
		F	13 50 31—						
501	" 21	e	23 40 03.1						In the Kasima-nada.
		F	23 43 10—						
502	" 23	e	22 37 03.3						A distant shock.
		F	23 43 26—						
503	" 25	eP	9 04 26.2					383	Sea off the mouth of the river Uketo in Hukusima pref.
		S	9 05 17.9						
		F	9 08 43—						
504	" 25	eP	10 27 06.7					277	E. sea off Miyake Is.
		S	10 27 44.0						
		F	10 29 47—						
505	" 25	eP	22 53 22.9					710	∅132.2°E, ∅32.9°N.
		S	22 54 40.5						S. part of the Bungo straits.
		M <sub>N</sub>	22 54 53.0	3.4		±43			The shock were felt in the all Kyusyu and W. part of Sikoku districts.
		M <sub>Z</sub>	22 55 05.7	2.4			-13		
		M <sub>E</sub>	22 56 03.5	2.8	±41				
		M <sub>N</sub> <sup>2</sup>	22 56 12.1	2.8		±51			
		F	23 05 34—						
506	" 29	eP	5 05 48.2					770	Sea off Sioya cape.
		S	5 07 12.0						
		F	5 10 24—						
507	" 30	eP	7 43 50.6					770	∅143.5°E, ∅42.0°N.
		S	7 45 14.4						E. sea off Erimo cape.
		F	7 48 48—						The slight shock was felt in the S. part of Hokkaido.



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