

SEISMOLOGICAL BULLETIN

OF THE

AITIKEN METEOROLOGICAL OBSERVATORY

NAGOYA JAPAN

VOL. VI. NO. 1,

FROM JANUARY TO JUNE.

1935

NAGOYA

October 1935

CONSTANTS

Latitude and longitude of the center of the Seismographic room

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

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

Altitude, 51.7^m above mean sea level.

Lithologic foundation, Schottered clay (Tertiary)

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

Constants of the Seismographs

Apparatus	Component	T^0	ξ	$\frac{r}{T^2}$	V		
Wiechert 200kg	I {	N	5.0	8	0.02	92	
		E	5.1	8	0.02	91	
	II {	N	5.0	8	0.02	93	
		E	5.0	8	0.02	91	
	III {	N	4.9	8	0.02	96	
		E	5.0	8	0.02	95	
	" 80kg	IV {	N	5.1	8	0.02	95
			E	5.2	8	0.02	94
Z		3.5	8	0.01	80		
Omori	{	N	20.0	4	0.04	20	
		E	20.0	3	0.02	20	

Note.

I,	Jan. 1 to Feb. 28
II,	Mar. 1 to April. 10
III,	April. 11 to Jun. 20
IV,	Jun. 21 to Jun. 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.

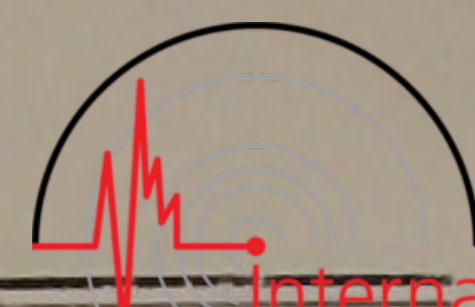
i = Sudden beginning of the motion.

e = Gradual beginning of the motion.

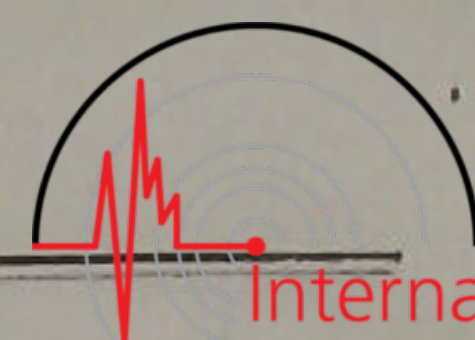
III. Remarks.

Covered = Covered by following shock.

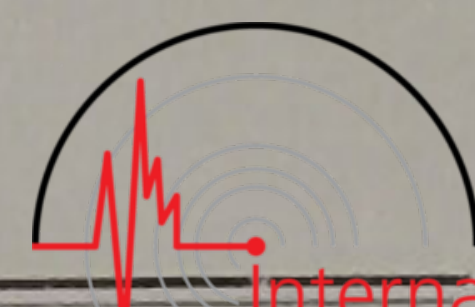
Is. = Island. Pref. = Prefecture.



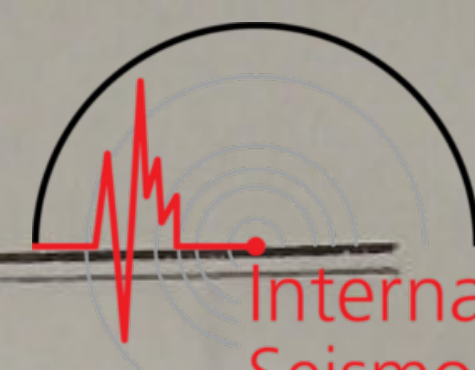
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
			h m s		μ	μ	μ	km.	
1	Jan. 1	P	1 59 12.0					228	Near Tokyo city.
		S	1 59 42.7						
		ME	1 59 59.6	1.1	-12				
		MN	2 00 05.4	1.2		-16			
		F	2 03 —						
2	" 1	P	6 15 45.0				920	↓ 144.1° λ 40.3° NEN. sea off Miyako.	
		S	6 17 25.3						
		MN	6 17 42.1	2.6		-9			
		F	6 22 58—						
3	" 1	P	22 06 16.8				205	N. sea of Idu Osima.	
		S	22 06 44.5						
		MN	22 06 49.3	1.3		-34			
		ME ₁	22 06 54.3	1.5	-45				
		Mz	22 06 56.5	1.5		±12			
		ME ₂	22 07 21.7	2.1	+44				
4	" 1	e	22 31 42.1					A distant shock.	
		F	22 35 57—						
5	" 3	P	10 57 51.2					A distant earthquake. Epicenter unknown.	
		eL	11 11 43.2						
		F	11 29 44—						
6	" 3	P	23 55 35.9				257	The Mouth of the river Edo. Slight shock was felt at Kwanto district.	
		S	23 56 10.6						
		ME	23 56 20.5	1.0	+57				
		MN	23 56 30.5	1.2		+50			
		Mz	23 56 39.4	1.1		+25			
F	24 04 46—								
7	" 4	eP	0 10 32.2				235	Near the mouth of the river Edo.	
		S	0 11 03.9						
		F	0 13 03—						
8	" 4	P	6 57 20.0				445	Sea off Inubo cape.	
		S	6 58 19.9						
		F	7 02 04—						
9	" 6	e	8 25 13.8					N. part of the Tokyo bay.	
		F	8 27 37—						



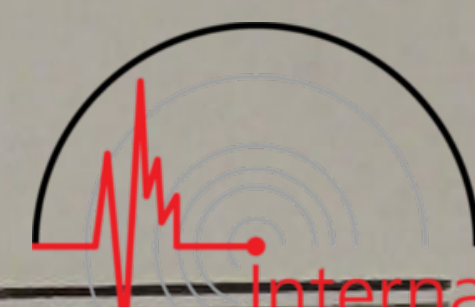
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
10	Jan. 8	iP(z)	h m s 11 03 53.7		μ	μ	μ	32	Near the mouth of the river Ibi. Slight shock were felt at Nagoya and NW. part of Aiti pref.
		S	11 03 58.0						
		ME	11 03 58.4	0.1	-46				
		Mz	11 03 58.8	—			-14		
		MN	11 04 01.0	0.1		-24			
		F	11 08 58—						
11	" 9	e	1 05 37.6					Near Mt. Tukuba.	
		F	1 07 28—						
12	" 9	eP	3 35 22.1				390	S. part of the Kasima-nada.	
		S	3 36 14.6						
		Mz	3 36 47.0	1.7					-7
		MN	3 36 58.2	2.0		+13			
		ME	3 36 59.4	2.0	+11				
		F	3 41 14—						
13	" 9	e	3 42 12.1					Ditto.	
		F	3 44 55—						
14	" 9	P	18 51 24.9				370	Ditto.	
		S	18 52 14.7						
		ME	18 52 43.9	1.3	+7				
		MN	18 52 53.8	1.2		+6			
		F	18 56 48—						
15	" 10	eP	0 10 24.4				81	Near Katuyama in Hukui pref.	
		S	0 10 35.3						
		F	0 12 04—						
16	" 10	eP	1 38 13.4				116	The Course of the river Hidaka in Wakayama pref.	
		S	1 38 29.1						
		F	1 40 13—						
17	" 10	e	16 38 34.7					A local shock. Feeble tremors.	
		F	16 39 48—						
18	" 11	eP	4 39 43.0				40	A local shock. Near the city of Nagoya.	
		S	4 39 48.4						
		F	4 40 57—						
19	" 11	e	12 03 59.1					Sea off Inubo cape.	
		F	12 06 51—						



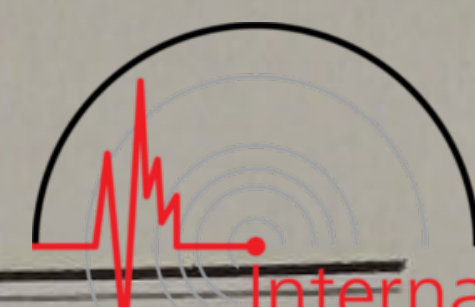
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre distance	Remarks	
					AE	AN	Az			
20	Jan. 13	iP	23 15 53.1		μ -2.3	μ +1.2	μ +8.8	33	In Aiti pref. Epicenter at Tita or SW. part of Mikawa province. Very slight shock felt at almost of Aiti pref.	
		S	23 15 57.5							
		ME	23 15 57.6	0.1	-44					
		Mz	23 15 58.6	0.1			-25			
		MN	23 16 02.0	0.1		-22				
		F	23 20 09—							
21	" 15	P	9 22 12.1					188	Near Odawara in Kanagawa pref. deep focus .	
		S	9 22 37.4							
		MN	9 22 38.1	1.8		+17				
		ME	9 22 39.3	2.4	+27					
		Mz	9 22 42.3	1.9			-8			
		F	9 26 59—							
22	" 17	e	11 18 36.3						A distant shock.	
		F	11 24 09—							
23	" 18	P	2 13 32.8				45		A local shock. Near the city of Nagoya.	
		S	2 13 38.9							
		F	2 14 26—							
24	" 18	eP	2 22 47.4				181		Near Mt. Tukuba.	
		S	2 23 11.8							
		F	2 25 46—							
25	" 19	P	0 49 18.7				226		↓ 133.1° λ 34.4° The Mouth of the river Numata in Hiroshima pref.	
		S	0 49 49.1							
		F	0 52 11—							
26	" 19	eP	7 44 13.4				264		↓ 139.7° λ 35.6° The Mouth of the river Rokugo in Tokyo pref.	
		S	7 44 48.9							
		MN ₁	7 44 52.8	1.8		+53				
		ME	7 44 58.7	1.3	+71					
		Mz	7 45 00.5	1.4						+18
		MN ₂	7 45 08.2	2.0		+53				
27	" 19	eP	9 41 17.9				97		Near the mouth of the river Arita.	
		S	9 41 30.9							
		F	9 43 30—							
28	" 19	e	16 59 31.7					The Mouth of the river Rokugo in Tokyo pref.		
		F	17 00 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.	
29	Jan 19	eP	20 15 56.6	2.6	-10			910	SSE. sea off Erimo cape.
		eS	20 17 36.0						
		ME	20 19 10.8						
		F	20 23 52—						
30	" 20	P	4 12 10.9				187	Near Kakioka in Ibaragi pref.	
		S	4 12 36.0						
		F	4 14 35—						
31	" 21	eP	1 56 02.6				374	Near the Sidukawa bay in Miyagi pref.	
		eS	1 56 53.0						
		F	2 00 31—						
32	" 22	P	5 14 17.8				76	Near the city of Hamamatu.	
		S	5 14 28.0						
		F	5 16 49—						
33	" 22	P	14 44 53.3				68	Ditto.	
		S	14 45 02.4						
		F	14 46 04—						
34	" 23	e	16 25 35.7					Ditto.	
		F	16 28 08—						
35	" 23	eP	16 29 37.3				1730	A distant earthquake.	
		eS	16 32 33.1						
		eL	16 41 57.2						
		F	16 56 12—						
36	" 23	P	20 04 39.6				317	Near Kakioka in Ibaragi pref.	
		S	20 05 22.2						
		F	20 08 12—						
37	" 25	e	4 23 50.1					The central Honsyu.	
		F	4 24 56—						
38	" 25	e	12 35 56.8					E. sea off Miyako.	
		F	12 39 36—						
39	" 27	eP	12 15 57.4				343	Sea off Sioya cape.	
		S	12 16 43.6						
		F	12 20 09—						



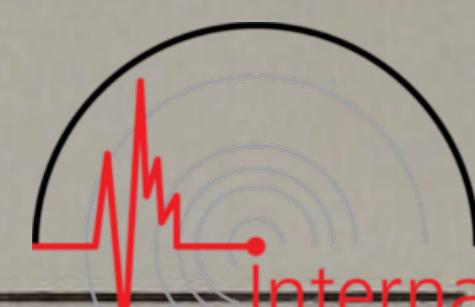
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
40	Jan. 28	P	0 50 48.3					76	Near Hutamata in Siduoka pref.
		S	0 50 58.5						
		Mz	0 50 58.7	0.1			±5		
		ME	0 50 59.7	0.2	-7				
		MN	0 50 59.7	0.2		-7			
		F	0 52 02-						
41	" 28	P	18 51 28.6				630	Near Hatijyo Is.	
		S	18 52 37.8						
		F	18 58 48-						
42	" 29	e	18 55 54.4					Near Sioya cape.	
		F	18 59 01-						
43	" 30	e	1 20 09.4					Sea off Inubo cape.	
		F	1 23 36-						
44	" 30	P	11 24 31.9				39	A local shock. Near the city of Nagoya.	
		S	11 24 37.2						
		Mz	11 24 37.4	<0.1					+5
		MN	11 24 38.2	<0.1		-10			
		ME	11 24 38.3	<0.1	+12				
		F	11 26 10-						
45	" 30	P	20 10 19.3				137	Near Hunadu in Yamanasi pref.	
		S	20 10 37.7						
		F	20 12 37-						
46	" 31	eP	13 55 37.4				263	Near Mikkaido in Ibaragi pref.	
		eS	13 56 12.8						
		F	13 58 56-						
47	Feb. 1	e	2 54 56.3					A distant shock.	
		F	2 58 02-						
48	" 1	P	22 20 13.4				69	Near Horado in Gihu pref.	
		S	22 20 22.7						
		F	22 21 25-						
49	" 3	P	20 19 37.1				265	ψ 140.2° λ 34.2° E sea off Miyake Is.	
		S	20 20 12.7						
		ME	20 20 31.1	1.8	-11				
		MN	20 20 39.3	1.9		-17			
		F	20 23 54-						



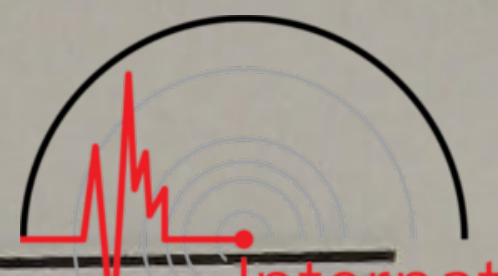
No.	Date	Phase	Time 135° E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
50	Feb. 4	P	9 30 33.6					148	N. part of the Osaka bay.
		S	9 30 53.5						
		F	9 32 52—						
51	" 5	P	5 11 06.9				334	In the Iyo-nada.	
		S	5 11 51.8						
		F	5 15 25—						
52	" 5	e	6 14 09.0					A distant shock. Near the Philippine Is.	
		F	6 22 36—						
53	" 7	P	0 53 16.3				254	Near Iwai in Ibaragi pref.	
		S	0 53 50.5						
		F	0 57 03—						
54	" 7	iPz	22 36 15.2			+2.5	48	N. part of Mie pref.	
		S	22 36 21.6						
		MN	22 36 21.9	0.3	-6				
		Mz	22 36 22.2	0.2		+4			
		ME	22 36 22.4	0.2	+5				
		F	22 38 05—						
55	" 8	e	2 34 32.4					A distant shock. Near the Philippine Is.	
		F	2 40 05—						
56	" 10	P?	4 23 38.3					ψ 121.8° λ 24.7° Near Suo in Taiwan.	
		eL	4 30 39.6						
		F	4 40 38—						
57	" 11	P	0 00 17.2				58	Near the mouth of the river Toyo.	
		S	0 00 24.9						
		F	0 02 37—						
58	" 11	iP	3 31 04.3		-1.1	+5.4	680	W. sea off Titijima Is. (deep focus)	
		iS	3 32 19.4						
		ME	3 32 20.9	3.1	+152				
		Mz	3 32 26.3	2.0		+15			
		MN	3 32 37.2	2.4		-73			
		F	3 43 44—						
59	" 11	iP	22 17 14.1		+1.1	+2.1	42	The lower course of the river Yahagi in Aiti pref. Slight shock were felt at Seto, Noda in Aiti pref.	
		S	22 17 19.8						
		ME	22 17 20.0	0.2	+8				
		MN	22 17 20.0	0.2		+14			
		F	22 18 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.	
60	Feb. 12	P	2	20	36.8					126	Near Simoduma in Ibaragi pref.
		S	2	20	53.8						
		ME	2	21	24.1	1.4	±9				
		MN	2	21	29.1	1.3		-9			
		Mz	2	21	38.1	1.3			-6		
		F	2	23	56-						
61	" 13	P	6	10	25.4					42	Near Kameyama in Mie pref.
		S	6	10	31.0						
		ME	6	10	31.0	0.1	-15				
		MN	6	10	31.1	0.2		±9			
		F	6	12	04-						
62	" 14	e	15	39	00.9						A local shock? Very faint record.
		F	15	41	22-						
63	" 15	P	1	58	42.3					45	The course of the river Tubo in Gihu pref.
		S	1	58	48.4						
		Mz	1	58	48.4	0.1			-10		
		ME	1	58	48.5	0.2	+18				
		MN	1	58	50.1	0.2		+16			
		F	2	01	49-						
64	" 18	P	23	56	39.2					171	ϕ 139.0° λ 35.3° Mt. Asigara in Kanagawa pref.
		S	23	57	02.2						
		ME	23	57	13.4	1.0	+22				
		MN	23	57	15.4	0.9		-24			
		Mz	23	57	18.2	1.0			+9		
		F	0	01	53-						
65	" 19	e	17	04	15.6						SE. sea off Muroto cape. (faint record.)
		F	17	06	49-						
66	" 20	P	2	51	31.3					128	The middle course of the river Abe in Siduoka pref.
		S	2	51	48.5						
		ME	2	51	56.8	1.0	±36				
		Mz	2	51	57.5	1.0			-13		
		MN	2	52	03.4	1.1		+48			
		F	2	58	04-						
67	" 20	iPE.Z	5	11	13.3		+2.2		-1.5	403	ϕ 140.6° λ 35.7° N. part of Kujyukuri-hama.
		P	5	11	22.0						
		S	5	12	07.6						
		Mz	5	12	22.8	1.9			+153		
		ME	5	12	34.0	2.1	-605				
		MN	5	12	39.6	2.1		+695			
		F	5	22	41-						

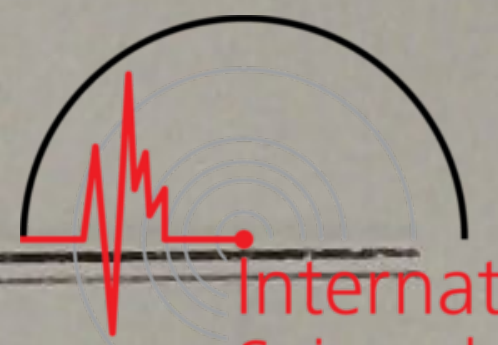
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
68	Feb. 23	P	2 12 50.7					5035	A distant earthquake. Near the Aleutian Is.
		L	2 19 35.0						
		Mz	2 20 21.7	14.5			+5		
		ME	2 22 06.6	14.3	+11				
		MN	2 23 36.3	14.6		-13			
		F	2 50 28—						
69	" 24	P	14 16 04.5				126	S. part of Nara pref.	
		S	14 16 21.4						
		F	14 18 53—						
70	" 25	P	12 03 59.0					A distant shock.	
		eL	12 14 13.2						
		F	12 27 —						
71	" 26	P	0 08 39.9				590	SW. sea off Hatijyo Is.	
		S	0 09 45.1						
		ME	0 09 45.7	1.9	-6				
		MN	0 10 01.7	1.9		+5			
		F	0 15 03—						
72	" 26	P	14 39 04.7				248	Near Sakura in Tiba pref.	
		eS	14 39 38.1						
		F	14 42 42—						
73	" 27	e	18 16 05.5					A distant shock.	
		F	18 20 54—						
74	Mar. 1	P	10 50 43.0				168	In the Kii-strait.	
		S	10 51 05.7						
		F	10 54 02—						
75	" 2	P	3 45 47.2				317	ϕ140.0°, λ36.0°. Near Mikkaido in Ibaragi pref.	
		S	3 46 29.8						
		ME	3 46 48.2	1.5	+10				
		MN	3 47 05.1	1.7		±9			
		F	3 50 39—						
76	" 4	P	13 05 46.8				217	Near Simoduma in Ibaragi pref.	
		S	13 06 16.1						
		Mz	13 06 39.3	1.8					-8
		ME	13 06 40.9	2.2	+13				
		MN	13 06 41.1	2.2		-34			
		F	13 11 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.		
77	Mar. 5	P	4 47 18.0					59	A local shock.	
		S	4 47 25.9							
		F	4 48 42—							
78	" 5	P	19 29 10.5					700	ESE. sea off Miyako.	
		S	19 30 27.5							
		F	19 34 35—							
79	" 7	P	0 31 29.0					131	N. part of Idu peninsula.	
		S	0 31 46.7							
		F	0 33 43—							
80	" 7	P	17 54 05.6					180	Near Miura peninsula.	
		S	17 54 29.8							
		ME	17 54 39.3	1.3	+7					
		MN	17 54 47.1	1.4		+8				
		F	17 57 23—							
81	" 7	P	19 28 09.9					720	ψ 139.6° λ 40.0° Sea off Ojika peninsula in Akita pref	
		S	19 29 29.3							
		ME	19 29 56.9	3.0	-29					
		MN	19 30 24.5	3.0		+30				
		F	19 39 52—							
82	" 7	P	19 42 31.2					720	ψ 131.1° λ 33.1° N. foot. of Mt Aso.	
		S	19 43 50.1							
		ME	19 44 26.3	2.5	+9					
		MN	19 44 29.4	2.6		-9				
		F	19 51 28—							
83	" 8	P	2 28 27.3					332	ψ 139.6° λ 37.4° The course of the river Nakano. NW. part of Hukusima pref.	
		S	2 29 12.0							
		MN	2 29 25.8	2.1		-11				
		ME	2 29 34.9	2.6	-13					
		Mz	2 29 37.8	1.4			±4			
		F	Covered							
84	" 8	eP	2 32 29.4					343	Ditto.	
		S	2 33 15.7							
		MN	2 33 27.5	2.2			±78			
		ME	2 33 38.6	2.3	-75					
		Mz	2 33 43.9	1.5						-25
		F	2 44 17—							



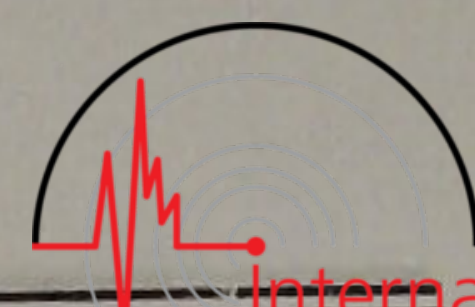
No.	Date.	Phase	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance	Remarks
							AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
85	Mar. 8	P	3	45	43.4					321	W. part of Totigi pref.
		S	3	46	26.7						
		F	3	49	47—						
86	" 8	e	23	01	02.2						The course of the river Nakano in Hukusima pref.
		F	23	03	09—						
87	" 9	P	1	09	13.8					351	ψ 141.1° λ 36.6° N. part of the Kasima-nada.
		S	1	10	01.0						
		MN	1	10	24.9	2.1		+48			
		ME	1	10	32.2	1.8	-39				
		Mz	1	10	36.2	1.5			+18		
		F	1	19	37—						
88	" 11	e	12	38	56.0						The course of the river Nakano in Hukusima pref.
		F	12	41	17—						
89	" 11	e	17	35	08.2						Ditto.
		F	17	37	43—						
90	" 13	e	12	01	44.7						In the Kii strait.
		F	12	05	20—						
91	" 14	eP	1	11	25.4					73	Near the city of Hamamatu.
		S	1	11	35.3						
		F	1	13	35—						
92	" 14	P	23	16	20.8					187	Near Odawara. (deep focus)
		iS	23	16	45.9						
		MN	23	16	47.0	2.2		-27			
		ME	23	16	50.5	1.7	+14				
		Mz	23	16	50.6	1.6			-14		
		F	23	24	—						
93	" 15	P	1	22	03.2					50	A local shock. Near Sakasita in Aiti pref.
		S	1	22	10.0						
		ME	1	22	10.2	<0.1	-12				
		MN	1	22	10.3	<0.1		-14			
		F	1	23	57—						
94	" 16	e	16	57	53.8						A local shock? Faint record.
		F	17	00	02—						
95	" 18	P	6	35	22.4					114	Near Hunadu in Yamanasi pref.
		S	6	35	37.8						
		F	6	36	59—						



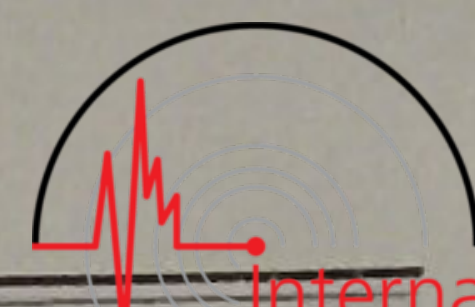
No.	Date.	Phase.	Time 135°E M. C T h m s	Period s	Amplitude			△ Epicentre distance km.	Remarks
					AE	AN	Az		
96	Mar. 18	iP	21 32 16.5		μ +1.1	μ +1.2	μ -11.3	225	The course of the river Masuda in Gihu pref. (deep focus).
		iS	21 32 46.7						
		ME	21 32 46.9	2.0	+52				
		MN	21 32 52.5	2.0		-39			
		Mz	21 33 02.9	1.3			-14		
		F	21 40 30-						
97	" 21	e	9 11 55.5						A distant shock.
		F	9 22 43-						
98	" 22	P	12 44 22.5					18	A local shock. Near the city of Nagoya.
		S(M)	12 44 24.8	<0.1	-26	-22	+9		
		F	12 46 08-						
99	" 22	P	16 01 33.4					19	Ditto.
		S(M)	16 01 35.9	<0.1	-15	-8	+4		
		F	16 02 43-						
100	" 23	P	1 18 12.3					40	Ditto.
		S	1 18 17.7						
		F	1 19 12-						
101	" 25	P	1 04 04.1					138	Near the city of Ueda in Nagano pref.
		S	1 04 22.6						
		F	1 05 46-						
102	" 26	P	3 54 25.7					50	The central part of Aiti pref.
		S	3 54 32.5						
		MN	3 54 33.4	0.2		+18			
		ME	3 54 33.5	0.2	-10				
		F	3 56 37-						
103	" 26	P	18 03 33.6					215	Near Hunabasi in Tiba pref.
		S	18 04 02.5						
		F	18 06 27-						
104	" 28	eP	10 14 04.8					328	Near Mt. Komagatake in Yamanasi pref.
		S	10 14 48.9						
		F	10 16 51-						
105	" 29	P	8 50 01.4					1090	N. part of Japan sea.
		S	8 51 58.4						
		MN	8 52 01.4	2.1		+16			
		Mz	8 52 04.5	1.9			+5		
		ME	8 52 26.7	2.7	+20				
		F	8 57 -						



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.	
106	Mar. 31	iP _{E-N}	6	20	53.1		-6.3	-3.4		360	ψ 141.6° λ 37.4° NE. sea off Sioya-cape. Slight Shock were felt at all Kwanto, Tohoku and SE. part of Tyubu districts.
		S	6	21	41.5						
		M _N	6	22	18.7	2.1		-625			
		M _{E1}	6	22	20.1	2.1	±490				
		M _Z	6	22	28.0	2.1			+470		
		M _{E2}	6	22	51.2	2.0	±224				
		F	6	39	40-						
107	" 31	P	8	28	52.8				336	Ditto.	
		S	8	29	38.0						
		F	8	32	20-						
108	" 31	eP	21	14	58.1				351	Sea off Sioya cape.	
		eS	21	15	45.4						
		F	21	19	19-						
109	" 31	eP	21	33	55.0				163	Near Wakayama city.	
		eS	21	34	17.0						
		F	21	35	51-						
110	April 1	P	8	20	21.8				158	ψ 135.1° λ 33.9° Lower course of the river Hidaka in Wakayama pref.	
		S	8	20	43.0						
		M _Z	8	20	48.1	0.7					+13
		M _E	8	20	48.7	0.7	-36				
		M _N	8	20	49.4	0.6		+24			
		F	8	24	41-						
111	" 1	P	9	27	41.9				177	Lower course of the river Hidaka in Wakayama pref.	
		S	9	28	05.7						
		M _E	9	28	09.5	0.5	-16				
		M _Z	9	28	09.6	0.4					-8
		M _N	9	28	10.4	0.5		+11			
		F	9	31	51-						
112	" 4	P	22	22	53.0				445	ψ 141.4° λ 37.3° NE. sea off Sioya cape.	
		S	22	23	52.9						
		M _E	22	24	14.6	2.0	-35				
		M _{N1}	22	24	16.4	2.1		-46			
		M _Z	22	24	26.6	1.8					+14
		M _{N2}	22	24	47.7	2.0		+41			
		F	22	34	47-						
113	" 5	eP	2	48	10.9				428	Sea off Sioya cape.	
		eS	2	49	08.5						
		F	2	52	46-						



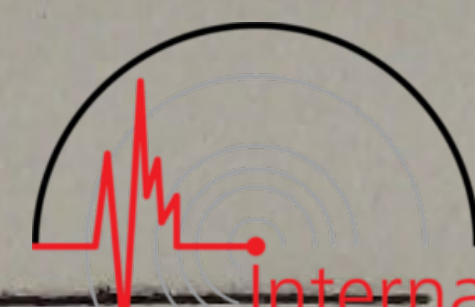
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
114	April 5	P	19 03 02.8					155	Near Mineyama in N. part of Tango province.
		S	19 03 23.7						
		F	19 05 49-						
115	" 7	e	2 29 17.4						Near Wajima in Noto peninsula.
		F	2 31 53-						
116	" 9	e	3 00 55.9						A local shock? (faint record.)
		F	3 03 29-						
117	" 9	iP	17 19 04.1		-16.5	+76	+93.7	91	↓ 137.9° λ 35.0° Middle course of the river Tenryu. Moderate shock was felt near the centre and Slight shock was felt at the central Japan.
		S	17 19 16.3						
		Mz	17 19 24.9	1.7			+625		
		ME	17 19 27.4	2.1	+1110				
		MN	17 19 28.1	1.7		-1550			
		F	17 28 55-						
118	" 12	P	0 25 58.4				+1.3	433	↓ 140.7° λ 36.8° Near Hiragata in Ibaragi pref.
		S	0 26 57.1						
		Mz	0 26 58.3	1.5			+31		
		ME	0 27 01.8	2.1	-94				
		MN	0 27 03.9	2.4		-214			
		F	0 40 35-						
119	" 13	e	10 56 14.8						A local shock?
		F	10 58 40-						
120	" 14	eP	16 41 02.0					550	Sea off Siويا cape.
		eS	16 42 03.2						
		F	16 46 26-						
121	" 14	eP	17 42 10.6					408	In the Kujyukuri-hama.
		eS	17 43 05.5						
		F	17 47 02-						
122	" 14	P	18 50 58.4					393	Sea off Inubo cape.
		S	18 51 51.4						
		MN	18 52 02.7	2.2		+16			
		ME	18 52 18.1	2.0	+11				
		F	18 57 18-						
123	" 14	e	19 49 11.1						In the Hyuga-nada.
		F	19 57 25-						



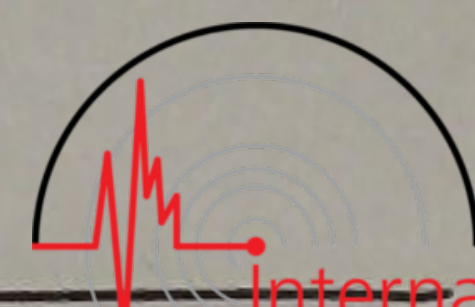
No.	Date	Phase	Time 1950E M. C. T	Period	Amplitude			Δ Epicentre distance	Remarks
					AE	AN	AZ		
124	April 15	iP	20 15 42.8		μ +3.3	μ +11.6	μ -158.8	205 km.	ψ 137.1° λ 36.2° NW. part of Hida province. D = 260km. Slight shock were felt in Kwanto, Oou district and Iikone, Kusiro.
		iS(E.N)	20 16 10.5						
		S(z)	20 16 12.0						
		Mz ₁	20 15 42.8	—			-159		
		ME ₁	20 16 11.8	1.4	-395				
		MN ₁	20 16 18.6	1.6		+302			
		Mz ₂	20 16 19.0	1.9			+80		
		Mz ₃	20 16 24.5	1.3			\pm 61		
		ME ₂	20 16 36.5	1.7	-260				
		ME ₃	20 17 20.9	2.5	-164				
		MN ₂	20 17 33.7	2.4		\pm 262			
		MN ₃	20 18 46.9	2.7		+108			
		ME ₄	20 19 09.8	2.7	-105				
		F	20 31 14—						
125	" 17	iP	7 44 04.8		+1.1	-1.0	+1.2	118	ψ 136.2° λ 34.2° Near Hananuki-toge in Mie pref. Slight shock was felt at Nagoya.
		iS	7 44 20.7						
		Mz	7 44 24.2	0.4			+46		
		ME	7 44 24.9	0.5	-100				
		MN	7 44 29.3	0.5		+104			
		F	7 53 55—						
126	" 17	iP	13 47 11.2		-1.1	-2.1	+11.5	38	ψ 136.9° λ 35.3° Near the city of Nagoya. Slight shock was felt at Nagoya.
		iS	13 47 16.3						
		ME	13 47 17.2	0.6	-207				
		Mz	13 47 20.4	0.5			+34		
		MN	13 47 22.2	0.5		+100			
		F	13 55 37—						
127	" 17	P	15 57 14.9				124	Near the city of Matumoto.	
		S	15 57 31.6						
		F	15 59 20—						
128	" 17	eP	18 56 41.4				309	Sea off Inubo cape.	
		eS	18 57 23.0						
		F	19 00 43—						
129	" 19	P	1 31 21.9				262	ψ 139.9° λ 36.1° Near Iwai in Ibaragi pref.	
		S	1 31 57.1						
		Mz	1 32 16.6	1.6					-17
		ME	1 32 20.1	1.7	-30				
		MN	1 32 34.3	1.9		+32			
		F	1 38 38—						



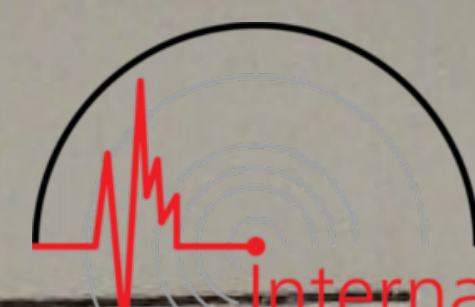
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
130	April 19	e	6 58 53.7						A local shock.
		F	7 03 16—						
131	" 20	P	0 36 58.4						A distant shock.
		eL	0 47 16.0						
		F	1 37 37—						
132	" 21	P	7 06 08.1					3280	↓ 120.8° λ 24.4° Near Sintiku in Taiwan. Strong shock was felt near the centre.
		PP	7 06 43.5						
		S	7 11 10.8						
		L	7 12 28.5						
		Mz	7 15 21.6	10.8			+20		
		ME	7 15 42.2	10.2	+66				
		MN	7 16 44.4	10.8		+58			
F	Covered								
133	" 21	P	7 30 35.5					3580	Ditto. (An after shock of No. 132)
		eS	7 35 57.6						
		L	7 38 14.4						
		F	7 53 —						
134	" 21	P	12 23 48.5					202	S foot of Mt. Haruna.
		iS	12 24 14.8						
		MN ₁	12 24 17.9	2.6		+51			
		ME	12 24 46.5	1.6	-32				
		Mz	12 24 46.5	1.3			-20		
		MN ₂	12 25 08.6	1.2		-39			
135	" 21	P	22 18 21.4					243	N. part of Ibaragi pref.
		S	22 18 54.1						
		F	22 21 12—						
136	" 21	eP	22 43 27.1					341	Near the sea of Inubo cape.
		S	22 44 13.1						
		F	22 47 22—						
137	" 24	P	1 52 52.3					3975	An after shock of No. 132 in Taiwan.
		PP	1 53 20.8						
		S	1 58 37.9						
		ME	1 58 41.7	3.1	-10				
		MN	1 58 41.8	3.3		±10			
F	2 10 38—								



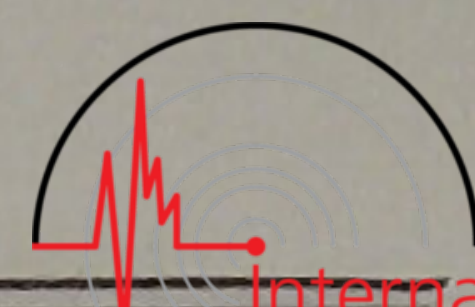
No.	Date	Phase	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance	Remarks
							AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
138	April 24	P	3	58	27.5					303	Epicenter unknown.
		S	3	59	08.3						
		F	4	03	24—						
139	" 25	e	1	03	10.0						An after shock in Taiwan.
		F	1	07	33—						
140	" 26	P	4	56	03.8					176	Epicenter unknown.
		S	4	56	27.4						
		Mz	4	56	43.4	1.3			-6		
		ME	4	56	51.4	1.4	-14				
		MN	4	56	51.9	1.6		-20			
		F	5	04	17—						
141	" 27	P	11	27	35.7					163	Near Iino in Saitama pref.
		S	11	27	57.6						
		ME	11	28	18.9	1.0	+10				
		MN	11	28	28.5	1.1		+11			
		F	11	33	41—						
142	" 30	eP?	5	44	27.9					8?	Near the city of Hamamatu. P. phase uncertain.
		S	5	44	29.0						
		F	5	45	23—						
143	May 2	P	20	17	04.2					27	Near the city of Nagoya. Slight shock was felt at Nagoya.
		S(M)	20	17	07.9	<0.1	-11	+9	+4		
		F	20	18	43—						
144	" 4	iP(z)	0	12	00.7					139	Near Mineyama in Tango province.
		iS	0	12	19.4						
		MN	0	12	25.0	0.7		+9			
		ME	0	12	32.3	0.6	+10				
		F	0	15	37—						
145	" 5	e	8	06	50.1						S. part of Sintiku County. (long wave).
		F	8	23	31—						
146	" 5	eP	17	15	56.7					179	Near Ome in Tokyo pref. (faint record).
		eS	17	16	20.8						
		F	17	19	17—						
147	" 5	P	19	57	45.5					152	The upper course of the river Arita in Wakayama pref.
		S	19	58	06.0						
		F	20	01	29—						



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.	
148	May 7	eP?	7 36 59.0					Near the city of Nagoya. Faint record.	
		eS	7 37 15.9						
		F	7 40 06—						
149	" 7	e	8 04 50.0					Ditto.	
		F	8 06 34—						
150	" 7	e	15 01 40.2					A distant shock. Long wave.	
		F	15 09 47—						
151	" 7	e	15 11 41.8					Near Gihu city. Feeble tremors.	
		F	15 12 41—						
152	" 9	eP	10 25 38.6				181	Near Simonida in Gumma pref.	
		S	10 26 03.0						
		F	10 30 23—						
153	" 9	iP	18 17 56.8		-1.1	+1.0		234 WNW. sea off Wajima in Noto peninsula.	
		eS	18 18 28.3						
		MN	18 19 25.4	2.5		-8			
		ME	18 19 42.5	2.7	-10				
		F	18 25 18—						
154	" 11	eP	1 13 53.7				274	Near Tiba city.	
		S	1 14 30.6						
		F	1 22 00—						
155	" 11	P	23 34 46.4				179?	NW. part of Kanagawa pref.	
		S?	23 35 10.5						
		F	23 40 07—						
156	" 12	P	3 50 58.9				3200	NE. sea off Kwarenko in Taiwan.	
		eL	3 56 01.3						
		F	4 03 20—						
157	" 14	eP	3 37 48.6				92	Near Kinomoto in Mie pref.	
		eS	3 38 01.0						
		F	3 39 19—						
158	" 14	P	5 00 40.5				11850	A distant earthquake. Epicentre unknown.	
		L	5 12 55.4						
		MN	5 15 24.1	12.4		-9			
		ME	5 15 50.8	10.3	-6				
		F	5 27 30—						



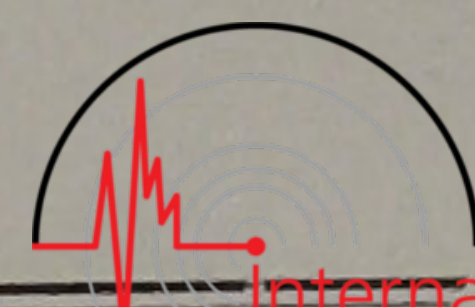
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre distance	Remarks		
					AE	AN	Az				
			h m s	s	μ	μ	μ	km.			
159	May 14	iPz	19 55 54.9	<0.1	-14	+24	+3	15	Near the city of Nagoya. Slight shock was felt at Nagoya.		
		iS(M)	19 55 56.9				+19				
		F	19 58 25-								
160	" 15	P	8 43 17.3					975	A distant shock.		
		S	8 45 02.8								
		F	8 55 35-								
161	" 17	eP?	8 10 52.7					241?	P and S: uncertain. Sea off the mouth of the river Uketo in Hukusima pref.		
		eS	8 11 25.1								
		F	8 14 28-								
162	" 18	eP	4 47 14.7					410	Sea off the city of Tyosi.		
		eS	4 48 10.0								
		F	4 52 21-								
163	" 18	e	20 50 22.3						A local shock? Very faint record.		
		F	20 51 36-								
164	" 20	e	14 28 08.7						A distant shock.		
		F	14 34 40-								
165	" 21	e	15 59 17.7						A distant shock. Near New Guinea.		
		F	16 08 33-								
166	" 21	e	22 13 52.9						Ditto.		
		F	22 20 37-								
167	" 23	P	11 11 17.6					640	ψ 142.3° λ 38.2° ESE. sea off Kinkwazan. Slight shock was felt at Tohoku district.		
		S	11 12 27.3								
		MN	11 12 43.9							2.2	+31
		ME	11 12 48.0							2.1	-26
		Mz	11 13 08.8							1.1	+5
		F	11 22 10-								
168	" 23	P	15 11 26.5					420	ψ 131.6° λ 32.9° The upper course of the river Oono in Ooita pref.		
		S	15 12 23.0								
		ME	15 12 29.0							0.8	+9
		MN	15 12 31.0							0.8	+10
		F	15 20 02-								
169	" 23	eP	20 39 45.8					315	N. part of the Kuju-kuri-hama.		
		eS	20 40 28.2								
		F	20 44 28-								



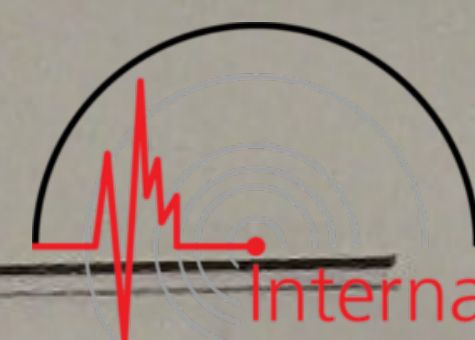
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks		
					AE	AN	Az				
170	May 24	P	14 42 05.5	μ	μ	μ	μ	5275	A distant earthquake. E sea off Mindanao Is.		
		S	14 46 41.7								
		L	14 49 02.8								
		M _N	15 03 59.8							16.8	-22
		M _E	15 04 42.7							15.0	-14
		F	16 11 06—								
171	" 24	e	16 57 39.8						S. sea off Idu Is.		
		F	17 00 06—								
172	" 25	e	1 19 58.3						SW.sea off Urakawa.		
		F	1 25 06—								
173	" 25	P	9 13 27.9					3840	A distant shock. Sea off Mindanao Is.		
		eL	9 19 05.7								
		F	9 31 34—								
174	" 25	e	17 38 29.2						A distant shock.		
		F	17 45 08—								
175	" 25	P	19 04 34.0					550	Sea off Kujoyukuri-hama.		
		S	19 05 34.9								
		F	19 10 26—								
176	" 26	eP	5 37 46.6					425	Sea off the Sidukawa bay in Miyagi pref.		
		eS	5 38 43.8								
		F	5 43 19—								
177	" 27	P	7 09 18.9					3240	A distant shock. Near the Philippine Is.		
		eL	7 14 18.8								
		F	7 34 13—								
178	" 27	P	14 50 39.8					346	NE. sea off Sioya cape		
		S	14 51 26.5								
		F	14 55 37—								
179	" 28	eP	11 16 24.7					275	Near Tuyama in Okayama pref.		
		S	11 17 01.7								
		F	11 21 14—								
180	" 29	e	2 04 01.0						SE. sea off Etorou Is.		
		F	2 11 39—								



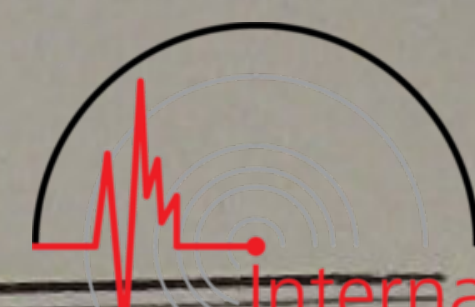
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre distance	Remarks
					AE	AN	Az		
			h m s	"	μ	μ	μ	km.	
181	May 29	eP	17 15 36.1					63	Near Gihu city
		S	17 15 44.6						
		F	17 17 04—						
182	" 31	P	6 42 53.8					6630	A distant earthquake. Near Baluchiotan.
		PP	6 44 20.5						
		S	6 51 03.3						
		L	6 56 33.9						
		ME	7 08 01.1	18.7	-70				
		MN	7 08 11.0	18.6		-73			
		Mz	7 12 04.1	17.1			-25		
	F	8 02 55—							
183	" 31	iP	17 19 56.6		-3.3	+5.9	-6.3	560	↓ 134.2° λ 38.6° The centre of the Japan sea. D=450km. Slight shock were felt at Hikone Kakioka. Onahama and Kusiro.
		P̄	17 20 11.0						
		iS	17 20 58.1						
		ME1	17 21 02.1	3.8	+185				
		MN	17 21 02.8	3.6		+256			
		Mz	17 21 41.8	2.5			-51		
		ME2	17 21 42.7	2.9	+240				
		F	17 36 15—						
184	" 31	e	21 09 17.8					The central Honsyu.	
		F	21 15 20—						
185	June 1	P	8 30 28.6				111	Near Takatuki in Osaka pref.	
		S	8 30 43.6						
		F	8 33 38—						
186	" 1	e	23 45 46.0					A distant shock.	
		F	23 54 05—						
187	" 2	e	18 26 18.2					Ditto.	
		F	18 32 10—						
188	" 2	e	18 57 27.8					Ditto.	
		F	19 05 08—						
189	" 3	P	11 36 21.7				257	Near Moriya in Ibaragi pref.	
		S	11 36 56.3						
		MN	11 37 13.6	1.9		-11			
		ME	11 37 21.3	1.9	+12				
		Mz	11 37 23.2	1.3					-5
	F	11 41 36—							



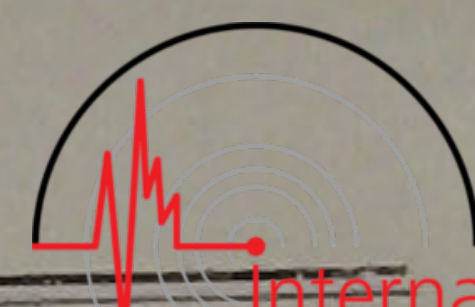
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					A _E	A _N	A _Z		
			h m s	s	μ	μ	μ	kin.	
190	June 5	P	5 34 17.0					249	ϕ 139.9° λ 36.1° Near Iwai in Ibaragi pref. Moderate shock was felt near the centre.
		S	5 34 50.5						
		M _Z	5 35 10.1	1.2		-8			
		M _E	5 35 14.1	1.3	-17				
		M _N	5 35 15.3	1.4		-17			
		F	5 39 44-						
191	" 5	eP	9 43 33.5				254	Near Mt. Tukuba.	
		eS	9 44 07.7						
		F	9 47 23-						
192	" 5	P	16 05 05.1				177	Sea off Tanabe in Wakayama pref.	
		S	16 05 28.9						
		M _E	16 05 34.4	1.0	-14				
		M _N	16 05 36.4	0.8		-12			
		M _Z	16 05 37.2	1.0		±7			
		F	16 11 08-						
193	" 5	eP	16 30 51.1				269	W. part of Hokusima pref.	
		S	16 31 27.4						
		F	16 36 32-						
194	" 5	eP	22 39 04.1				287	Sea off Hionsaki in Wakayama pref.	
		S	22 39 42.8						
		M _N	22 39 47.9	0.5		+10			
		M _E	22 39 49.4	0.6	+12				
		F	22 45 24-						
195	" 6	iP	21 59 43.7		-1.1	+2.0	-8.7	307	SSW.sea off Hatijyo Is.
		iS	22 00 25.1						
		M _Z	21 59 43.7				-8.7		
		M _N	22 00 27.4	3.0		-14			
		M _E	22 00 29.8	2.8	-14				
		F	22 08 28-						
196	" 8	P	13 57 52.4				262	ϕ 140.1° λ 36.1° SW. foot of Mt. Tukuba. Moderate shock was felt near the centre.	
		S	13 58 27.6						
		M _E	13 58 51.6	1.2	+26				
		M _N	13 59 13.5	1.8		+39			
		F	14 06 30-						
197	" 9	e	15 39 20.4					A distant shock.	
		F	15 46 -						



No.	Date.	Phas.	Time 135°E M. O. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
198	June 10	iP(z)	15 52 48.9		μ	μ	μ +1.3	360	ψ 139.4° λ 33.5° NNW. sea off Hatijyo Is. Moderate shock was felt at Hatijyo Is.
		iS	15 53 37.4						
		MN	15 54 25.9	2.2		+39			
		ME	15 54 47.5	2.6	+26				
		Mz	15 54 57.2	1.7			\pm 13		
		F	16 04 18—						
199	" 12	P	11 44 20.5				165	The upper course of the river Dōsi in Yamanasi pref.	
		S	11 44 42.7						
		MN	11 45 06.0	0.9		-11			
		ME	11 45 08.2	1.0	-11				
		F	11 48 26—						
200	" 14	P	18 42 05.7				215	The lower course of the river Hioki in Wakayama pref.	
		S	18 42 34.7						
		F	18 45 30—						
201	" 15	iP	6 10 14.7		+6.8	+1.0	-3.8	343	ψ 140.3° λ 34.7° S. sea off Katuura in Tiba pref. Slight shock were felt over Kwanto and a part of Tyubu. Tohoku district.
		S?	6 11 00.9						
		Mz ₁	6 11 05.7	1.3			-33		
		ME ₁	6 11 05.8	1.2	-73				
		MN ₁	6 11 17.4	1.8		-105			
		Mz ₂	6 11 35.3	1.6			-44		
		ME ₂	6 11 45.9	2.2	\pm 68				
		MN ₂	6 11 58.6	2.7		\pm 99			
		ME ₃	6 12 14.7	2.6	-74				
F	6 23 15—								
202	" 18	P	2 42 00.0				68	Near the city of Hikone.	
		S	2 42 09.2						
		F	2 44 03—						
203	" 19	e	7 33 07.6					A distant shock. E. sea off the Philippine Is.	
		F	7 40 30—						
204	" 20	eP	3 14 57.7				423	ψ 141.4° λ 36.9° E. sea off Sioya cape. Slight shock was felt near the centre.	
		eS	3 15 54.9						
		F	3 20 25—						
205	" 20	e	13 34 03.6					Near Taichu city in Taiwan.	
		F	13 38 40—						



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.	
206	June 21	P	4 30 20.0					310	φ 140.1° λ 39.3° Near Mt. Tukuba. The moderate shock was felt near centre. Slight shock was felt at E. part of Japan.
		S	4 31 01.7						
		Mz	4 31 10.2	1.2			-26		
		ME	4 31 12.5	2.0	-74				
		MN	4 31 25.7	2.3		+85			
		F	4 41 46-						
207	" 21	eP	12 16 45.5					210	SW. foot of Mt. Tukuba.
		eS	12 17 13.8						
		F	12 20 16-						
208	" 22	P	15 08 50.6						Near Gihu city.
		eS?	15 09 07.7						
		F	15 10 18-						
209	" 22	eP	19 54 37.5					272	Near Mt. Tukuba.
		S	19 55 14.2						
		F	19 57 57-						
210	" 23	e	0 56 41.7						A distant shock.
		F	1 05 46-						
211	" 25	iP	8 33 06.5		+7.5	-6.3	+4.4	7210	A distant earthquake. Near New Hebrides Is.
		ME	8 35 15.5	2.8	-15		(M)		
		PP	8 36 03.1						
		S	8 41 46.1						
		MN	8 42 16.0	3.3		+18			
		L	8 46 16.5						
		F	9 15 22-						
212	" 25	P	21 37 04.5					2705	SE. sea off Etorou Is.
		L	21 41 25.2						
		F	22 05 35-						
213	" 27	e	1 30 46.0						N. part of the Kasima-nada.
		F	1 33 20-						
214	" 27	P	1 54 49.5					277	In the Kumano-nada.
		iS	1 55 26.8						
		F	2 00 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.	
215	June 27	P	8 43 35.4					132	Near Miyadu.
		S	8 43 53.2						
		F	8 45 43—						
216	" 29	P	3 49 07.0					341	ϕ 140.3° λ 34.7° S. sea off Katura. Slight shock was felt at E. part of Japan.
		eS	3 49 55.7						
		Mz	3 49 59.4	1.5			-10		
		ME ₁	3 50 02.0	1.2	+30				
		ME ₂	3 50 28.2	1.6	-31				
		MN	3 50 35.2	1.9		+28			
		F	3 57 41—						
217	" 29	iP	3 58 40.2		+23.4	-1.3	-11.4	232	Ditto.
		S	3 59 11.4						
		Mz	3 59 29.6	1.6			-70		
		MN ₁	3 59 38.2	2.4		-211			
		ME ₁	3 59 48.2	1.9	-159				
		MN ₂	4 00 09.5	2.5		+223			
		ME ₂	4 00 30.8	2.7	+158				
		MF ₃	4 00 47.4	2.5	-199				
		F	4 13 41—						
218	" 29	e	5 40 19.4					Ditto. Faint record.	
		F	5 42 38—						
219	" 30	P	6 13 36.4				264	Ditto.	
		eS	6 14 11.9						
		F	6 17 44—						

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OF THE
AITIKEN METEOROLOGICAL OBSERVATORY

NAGOYA JAPAN

VOL. VI, NO. 2,

FROM JULY TO DECEMBER,

1935

NAGOYA

March 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	$\frac{r}{T^2}$	V
Wiechert 200kg	I { N	4.8	8	0.02	96
	E	5.0	8	0.02	95
	II { N	5.1	8	0.02	95
	E	5.2	9	0.02	94
" 80kg	Z	3.5	10	0.01	82
Omori	{ N	20.0	4	0.04	20
	E	20.0	3	0.02	20

Note. I, July. 1 to July. 20
 II, July. 21 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.

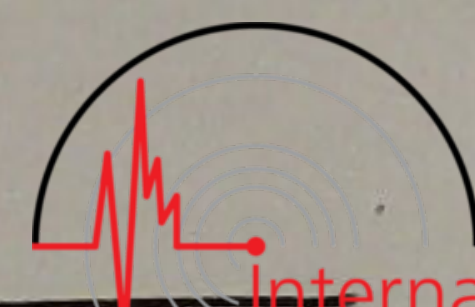


No.	Date.	Phase.	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks	
					AE	AN	AZ			
			h m s	s	μ	μ	μ	km.		
220	July 1	P	0 45 33.9					289	S. sea off Katuura.	
		S	0 46 12.8							
		F	0 49 28—							
221	" 3	e	4 50 00.3						A local shock Near the city of Nagoya. Feeble tremors.	
		F	5 00 06—							
222	" 3	P	10 37 43.6				550		NE. sea off Sioya cape.	
		S	10 38 45.0							
		M _N	10 39 01.7	1.1	-6					
		F	10 43 20—							
223	" 4	P	1 33 40.5				1030		ψ=142.8E, λ=42.0 N. Near Erimo cape.	
		S	1 35 31.5							
		F	1 42 45—							
224	" 4	e	17 26 41.2						Near Higasiyokohama in Gihu pref.	
		F	17 29 22—							
225	" 5	e	6 25 23.0						Near the city of Hamamatu.	
		F	6 27 15—							
226	" 5	e	12 09 46.4						Sea off Etorou Is.	
		F	12 13 18—							
227	" 5	P	18 12 19.5				325		SW. sea off Hatidyo Is.	
		iS	18 13 03.3							
		M _E	18 13 06.4	3.0	+56					
		M _N	18 13 08.3	2.8		+42				
		M _Z	18 13 13.9	1.8						+9
		F	18 21 26—							
228	" 6	e	3 02 33.0						A distant shock.	
		F	3 13 35—							
229	" 6	P	14 17 38.2				237		Near Koyama in Siduoka pref.	
		S	14 18 10.1							
		F	14 20 31—							
230	" 6	eP	15 47 32.3				560		E. sea off Sioya cape.	
		S	15 48 33.8							
		F	15 52 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.	
231	" 6	eP	16 36 19.4					410	Near Mikkaido in Ibaragi pref.
		S	16 37 14.7						
		M _N	16 37 45.0	1.9		+11			
		M _E	16 37 48.9	1.9	-11				
		F	16 43 25-						
232	" 7	iP(z)	22 28 23.8					2560	S. sea off Taiwan.
		M _Z	22 28 33.5	2.7					
		M _E	22 28 41.9	2.8	+16				
		M _N	22 28 48.0	2.6		+21			
		L	22 32 33.4						
		F	22 40 32-						
233	" 9	P	4 07 10.3					234	Near Fuzisawa in Kanagawa pref.
		S	4 07 41.8						
		F	4 10 46-						
234	" 9	eP	7 34 55.7					205	In the Kii-straits.
		S	7 35 23.3						
		F	7 37 46-						
235	" 9	e	9 53 03.2						A local shock.
		F	9 58 27-						
236	" 9	e	11 15 44.4						Near Kosyun city in Taiwan.
		F	11 23 28-						
237	" 9	e	13 46 45.1						Near the city of Nemuro.
		F	13 58 47-						
238	" 9	e	21 55 50.5						S. sea off Taiwan.
		F	22 01 35-						
239	" 10	e	3 00 41.4						Near the city of Taityu.
		F	3 06 38-						
240	" 10	e	4 23 46.0						A local shock? Feeble tremors.
		F	4 24 49-						
241	" 10	eP	7 25 05.0						Near Hunadu in Yamanasi pref.
		eS	7 25 20.8						
		F	7 27 16-						
242	" 11	e	2 25 38.2						Near Makisono in Kagosima pref.
		F	2 29 51-						

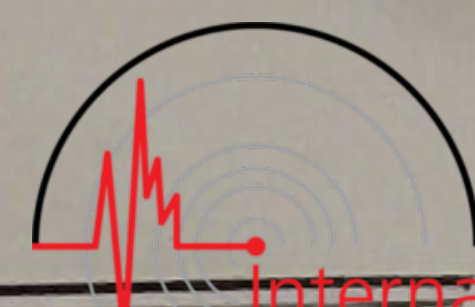
No.	Date.	Phase.	Time 135°E M. C. T			Period	Amplitude			△ Epicentre- distance	Remarks
							AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
243	July 11	iP	17	25	10.9		-473	+87	+205	116	ψ = 138.4E, λ = 35.0N. Near Siduoka. city Moderate shock was felt in the central Japan. Strong shock was felt at the centre. 814 houses were destroyed and 9 persons crushed to death by falling debris.
		S	17	25	26.5						
		M _{Z1}	17	25	40.9	1.8			±550		
		M _{E1}	17	25	46.5	2.5	-3150				
		M _{N2}	17	25	52.0	2.5		+3600			
		M _{E2}	17	25	55.3	2.4	+3050				
		M _{N2}	17	25	57.6	2.5		-3500			
		F	18	05	23-						
244	" 11	e	20	01	01.7					303	A local shock? Feeble tremors.
		F	20	01	50-						
245	" 11	eP	20	29	20.5					303	N. part of the Kasima-nada.
		eS	20	30	01.3						
		F	20	32	55-						
246	" 11	e	23	46	50.5					117	Near Siduoka city.
		F	23	48	12-						
247	" 12	P	1	22	25.1					117	Ditto.
		S	1	22	40.9						
		F	1	24	41-						
248	" 12	e	4	30	21.6					2150	Ditto.
		F	4	31	45-						
249	" 12	eP	12	41	45.4					2150	A distant earthquake. Near Urup Is. of the Tisima Is.
		S	12	45	21.1						
		F	12	52	57-						
250	" 13	e	5	48	06.0					334	S. sea off Taiwan.
		F	5	52	05-						
251	" 13	e	5	54	12.5					334	Ditto.
		F	5	59	16-						
252	" 13	e	9	37	34.8					334	Ditto.
		F	9	47	04-						
253	" 13	P	14	18	17.7					334	NE. sea off Siويا cape.
		S	14	19	02.7						
		F	14	24	02-						



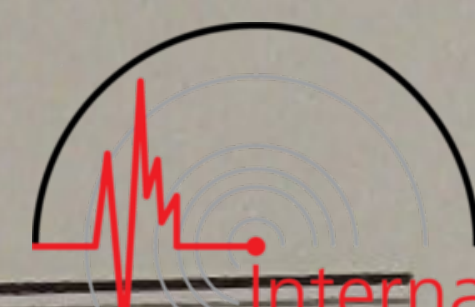
No.	Date	Phase	Time 135° E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
254	July 13	P	15 51 55.7					349	SE. sea off Hatidyo Is.
		S	15 52 42.7						
		F	15 58 04-						
255	" 14	P	7 53 37.8					76	Near Gihu city.
		S	7 53 48.0						
		F	7 55 23-						
256	" 15	e	6 09 20.7						Epicenter unknown.
		F	6 14 03-						
257	" 15	e	23 23 51.6						In the Ensyu-nada.
		F	23 31 13-						
258	" 16	P	21 44 11.7					434	Sea off Sioya cape.
		S	21 45 10.2						
		F	21 48 51-						
259	" 17	P	0 01 43.9					710	ψ = 131.3E, λ = 34.3N. W. part of Yamaguti pref. Moderate shock was felt near the centre. Slight shock was felt at most parts of Tyugoku, Si-oku and N. part of Kyusyu districts.
		S	0 03 01.6						
		ME	0 03 11.2	1.9	-38				
		MN	0 03 24.6	1.9		+45			
		Mz	0 03 32.6	1.5			-16		
		F	0 13 44-						
260	" 17	P	1 23 06.8					3675	ψ = 120.9E, λ = 24.6N. Near Sitansyu in Sintikusyu of Taiwan.
		L	1 28 34.7						
		MN	1 30 39.3	12.2		-17			
		Mz	1 31 32.3	10.9			-10		
		ME	1 32 30.5	11.0	-12				
		F	1 50 02-						
261	" 17	P	4 27 30.0					102	Near Siduoka city.
		S	4 27 43.7						
		MN	4 27 44.2	0.5		-11			
		F	4 30 56-						
262	" 17	P	5 07 25.9					3485	A distant earthquake.
		L	5 12 41.8						
		F	5 25 10-						
263	" 17	e	9 30 03.0						Near Mt. Asama?
		F	9 31 49-						

No.	Date	Phase	Time 135°E M. C. T			Period	Amplitude			△ Epicentre distance km.	Remarks
							AE	AN	AZ		
			h	m	s	s	μ	μ	μ		
264	July 17	eP	14	57	45.8					136	Near Takane in Gihu pref.
		eS	14	58	04.0						
		Fe	14	59	40—						
265	" 17	e	20	06	07.7						A distant shock.
		F	20	12	50—						
266	" 18	eP	2	56	24.7					280	ψ = 140.1 E, λ = 36.1N. SW. foot of Mt. Tukuba D = 35km. Moderate shock was felt near the centre and slight shock was felt over Kwanto
		P	2	56	39.9						
		S	2	57	02.4						
		MN	2	57	19.9	1.4		+58			
		ME	2	57	35.7	1.4	-43				
		MZ	2	57	39.6	1.3			-17		
267	" 19	PE	9	50	49.9					401	ψ = 141.3E, λ = 36.7N. In the Kasima-nada. A shock was felt in Kwanto, Oou, S. part of Hokkaido and E. part of Tyubu districts.
		ePN	9	50	50.7						
		iSE	9	51	42.9						
		iSN	9	51	44.7						
		MN ₁	9	52	56.9	2.4		+2575			
		MZ	9	52	56.9	2.5			-950		
		ME	9	53	09.1	2.5	+2590				
		MN ₂	9	53	24.4	2.5		-1990			
268	" 19	P	11	13	17.1					350	In the Kasima-nada.
		S	11	14	04.2						
		F	11	18	05—						
269	" 19	P	11	51	54.5					342	ψ = 141.3E, λ = 36.6 N. Ditto. Slight shock were felt at S. part of Tohoku and NW. part of Kwanto districts.
		S	11	52	40.6						
		MZ	11	53	15.0	1.8			±11		
		ME	11	53	17.4	2.3	+28				
		MN	11	53	24.5	2.5		-42			
		F	12	01	39—						
270	" 19	P	12	31	33.4					379	ψ = 141.3E, λ = 36.6N. Ditto.
		S	12	32	24.5						
		ME	12	32	50.0	2.2	-17				
		MN	12	32	58.8	2.5		+23			
		MZ	12	33	06.4	1.8			-4		
		F	12	39	03—						

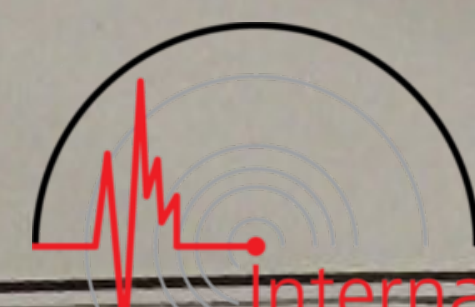
No.	Date	Phase	Time			Period	Amplitude			Δ Epicentre- distance km.	Remarks
			135° E M. C. T	k	m.		s	AE	AN		
271	July 19	e	23	24	09.8		μ	μ	μ		The Upper course of the river Arita in Wakayama pref.
		F	23	26	09—						
272	" 20	eP	7	43	36.1					373	Sea off Sioya cape.
		S	7	44	26.3						
		F	7	48	33—						
273	" 21	eP	9	31	38.4					402	In the Kasima-nada.
		S	9	32	32.5						
		F	9	36	17—						
274	" 24	PE	3	01	33.6				+1.1	228	$\psi=134.1E, \lambda=35.5N.$ Near Hamamura in Tottori pref. A shock was felt in the W. part of Japan.
		S	3	02	04.2						
		MN ₁	3	02	12.6	2.4		+157			
		ME ₁	3	02	16.4	1.2	-105				
		MZ	3	02	29.7	1.4			± 38		
		MN ₂	3	03	44.9	2.2		± 88			
		ME ₂	3	03	48.2	2.3	-88				
		F	3	14	10—						
275	" 24	eP	3	19	30.9					177	Near Hamamura in Tottori pref.
		S	3	19	54.7						
		F	Covered.								
276	" 24	P	Covered.								Ditto.
		S	3	21	21.5						
		F	3	24	10—						
277	" 24	eP	4	37	21.0					213	Ditto.
		S	4	37	49.6						
		F	4	40	54—						
278	" 24	P	5	57	39.9					220	Ditto.
		S	5	58	09.6						
		F	6	00	59—						
279	" 24	P	18	19	53.5					369	In the Kasima-nada.
		S	18	20	43.1						
		F	18	25	33—						



No.	Date	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
280	July 26	P _N	17 06 41.2		-1.1	-1.2	-1.2	1390	$\psi = 147.3E, \lambda = 47.5N.$ SE. sea off Kitasiretoko cape. D=350km. Slight shock were felt in the S. part of Hokkaido and Aomori pref.
		P _E	17 06 42.6						
		S(L) _F	17 09 08.4						
		M _N	17 09 12.2	3.1		+30			
		M _Z	17 09 32.6	1.8			-4		
		M _E	17 09 51.5	2.9	+21				
		Sc _S	17 17 52.4						
F	17 23 05-								
281	" 26	e	17 32 41.1					In the Kasima-nada.	
		F	17 35 28-						
282	" 27	eP	3 33 23.0				176	The lower course of the river Arita.	
		eS	3 33 46.6						
		F	3 36 01-						
283	" 27	eP	4 05 14.3				371	$\psi = 140.4E, \lambda = 36.0N.$ Near Kasumigaura. Slight shock was felt over Kwanto district.	
		S	4 06 05.2						
		M _N	4 06 23.7	2.0		-12			
		M _E	4 06 24.6	2.0	-9				
		F	4 11 08-						
284	" 27	P	10 53 00.4				331	In the Kasima-nada.	
		S	10 53 44.9						
		F	10 59 01-						
285	" 27	P	19 16 19.7				1490	NW. sea off Etorou Is.	
		iS	19 18 55.6			+1.0			
		M _E	19 19 01.5	2.8	+16				
		M _N	19 19 02.3	2.5		+15			
		F	19 31 38-						
286	" 27	eP	23 30 33.3				110	The central part of Nara pref.	
		S	23 30 48.1						
		F	23 33 57-						
287	" 28	P	2 02 08.9				294	E. sea off Nozima cape.	
		S	2 02 48.5						
		M _N	2 03 05.7	2.3		-23			
		M _Z	2 03 10.8	2.1					+6
		M _E	2 04 02.5	2.4	+21				
		F	2 11 49-						



No.	Date.	Phase.	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
288	July 28	eP	4 25 31.8		μ	μ	μ	310	E. sea off Nozima cape.
		eS	4 26 13.6						
		Mz	4 26 18.6	1.4			-10		
		Me	4 26 19.5	1.7	± 21				
		MN	4 26 45.6	2.1		-23			
		F	4 35 21-						
289	" 28	e	17 25 17.9					A distant shock.	
		F	17 35 02-						
290	" 29	eP?	2 36 55.3				398?	NE. sea off Inubo cape.	
		eS	2 37 49.0						
		F	2 41 58-						
291	" 29	P	10 54 33.9				361	In the Kasima-nada.	
		S	10 55 22.6						
		F	11 00 59-						
292	" 29	P	13 16 45.4				1910	A distant earthquake. Near the Marianne Is.	
		PP	13 17 52.3						
		S	13 20 00.8						
		MN	13 20 15.1	3.1		± 23			
		Scs	13 28 02.5						
		F	13 34 27-						
293	" 29	P	16 49 21.3				7150	A distant earthquake.	
		PP	16 51 51.8						
		S	16 57 58.0						
		ME	16 58 03.2	3.6		-36			
		MN	16 58 04.3	3.4		+36			
		L	17 01 37.5						
		F	17 23 28-						
294	" 30	e	2 29 17.1					Epicentre unknown.	
		F	2 35 25-						
295	" 30	eP	4 58 53.8				990	SE. sea off Siritia cape.	
		eS	5 00 40.3						
		F	5 08 20-						
296	" 30	eP	10 25 51.3				112	Near Siduoka city.	
		S	10 26 06.4						
		F	10 28 19-						



No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
297	July 30	e F	h m s 14 53 38.7 14 57 54-		μ	μ	μ	km.	Near Mt. Asama?
298	" 30	e F	15 17 57.2 15 22 22.0						A distant shock.
299	" 31	P P̄ S MN ME MZ F	17 13 14.4 17 13 30.8 17 13 53.6 17 14 11.2 17 14 19.8 17 14 19.8 17 27 18-			-1.0		291	ϕ = 140.2° E, λ = 36.2° N. Near Mt. Tukuba. D = 40 km. Strong shock was felt near the centre. Slight shock was felt over Kwanto.
300	Aug. 1	eP? eS F	13 41 48.9 13 42 30.6 13 45 54-						Near Sioya cape. P: uncertain.
301	" 1	P L F	23 12 07.7 23 20 22.5 23 35 52-					6720	A distant earthquake. E. sea off the Philippine Is.
302	" 3	e F	4 55 37.8 4 58 39-						Near Kasumigaura.
303	" 3	e F	5 23 14.6 5 35 29-						Near Etorou Is.
304	" 3	P L MN ME MZ F	10 18 47.1 10 29 38.6 10 43 20.0 10 43 32.0 10 45 12.2 11 08 38-					9860	A distant earthquake. Near Sumatora Is.
305	" 3	P S F	17 20 40.7 17 21 15.9 17 25 45-					262	Near Wakayama city.
306	" 6	e F	1 45 49.9 1 50 26-						In the Kasima-nada.



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.	
307	Aug. 6	eP	22 05 27.1					320	Ditto.
		eS	22 06 10.2						
		F	22 09 17—						
308	" 7	e	5 49 06.0						Near the city of Nagoya? Very faint record.
		F	5 50 31—						
309	" 9	eP	22 54 26.9					176	N. part of the Kasima-nada
		eS	22 54 50.7						
		F	22 56 51—						
310	" 11	e	9 53 52.6						Near Wakayama city. Very faint record.
		F	9 55 13—						
311	" 12	P	2 45 25.9					217	Near Kisaradu in Tiba pref.
		S	2 45 55.2						
		ME	2 46 17.3	1.3	-7				
		MN	2 46 25.5	1.5		+10			
		F	2 48 51—						
312	" 12	P	4 34 07.8					5275	A distant earthquake.
		S	4 41 04.7						
		ME	4 41 24.0	3.3	+9				
		MN	4 41 24.0	3.0		-9			
		F	4 51 05—						
313	" 12	e	10 44 20.7						A local shock.
		F	10 46 49—						
314	" 12	e	13 25 10.7						Near Wakayama city.
		F	13 27 17—						
315	" 14	P	10 31 43.2					429	Sea off Sioya cape.
		S	10 32 41.0						
		ME	10 32 43.1	2.0	+7				
		MN	10 32 54.2	1.9		+7			
		F	10 38 38—						
316	" 15	eP	23 18 52.7					126	Near Hinomisaki in Wakayama pref. Faint record.
		S	23 19 09.6						
		F	23 20 24—						



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.	
317	Aug. 17	P	4 54 30.8					261	The middle course of the river Hidaka in Wakayama pref.
		S	4 55 05.9						
		MN	4 55 08.3	0.9		-25			
		ME	4 55 08.4	1.0	+25				
		Mz	4 55 10.1	0.8		+6			
		F	4 59 29-						
318	" 17	P	10 55 19.2					7450	A distant earthquake.
		S	11 04 11.7						
		MN	11 04 21.4	2.6		±13			
		ME	11 05 26.2	3.1	+28				
		L	11 11 32.5						
		F	11 32 -						
319	" 17	P	16 24 09.6					378	ψ=141.6E, λ=37.2N. ENE. sea off Sioya cape. Moderate shock was felt in the S. part of Tohoku. Slight shock were felt at NE. part of Kwanto and Tohoku districts.
		PP	16 24 35.3						
		S	16 25 00.5						
		ME	16 25 06.6	2.5	+46				
		Mz	16 25 15.8	1.8		-17			
		MN	16 25 33.7	2.2		-71			
		F	16 35 31-						
320	" 18	e	5 31 24.9						In the Bashee Channel.
		F	5 37 12-						
321	" 18	e	9 26 07.6						Epicenter unknown.
		F	9 30 56-						
322	" 19	P	16 22 42.7					247	Near Mikkaido in Ibaragi pref.
		S	16 23 16.0						
		F	16 27 45-						
323	" 20	e	9 16 38.0						Sea off Kinkwazan.
		F	9 19 51-						
324	" 21	e	8 56 41.6						Epicenter unknown.
		F	9 00 05-						
325	" 23	e	23 06 32.8						A distant shock.
		F	23 17 54-						
326	" 24	eP	4 28 16.5					408	In the Kasima-nada.
		eS	4 29 11.4						
		F	4 33 54-						

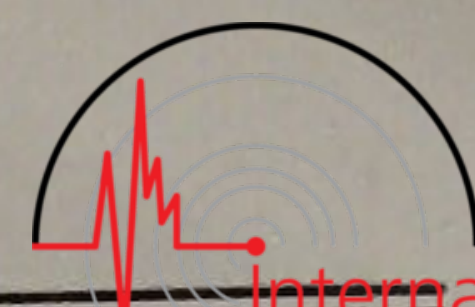
No.	Date	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
327	Aug. 25	eP?	11 04 42.0					220?	E. sea off Sioya cape.
		eS	11 05 12.8						
		F	11 07 20—						
328	" 25	P	17 17 31.0					124	Near Siduoka city.
		S	17 17 47.6						
		Mz	17 17 52.7	0.8			-6		
		MN	17 17 55.5	0.6		-11			
		ME	17 17 56.9	0.6	-19				
		F	17 22 35—						
329	" 27	e	12 52 01.0						Near Miyake Is.
		F	12 54 02—						
330	" 27	e	13 24 07.4						Ditto.
		F	13 26 34—						
331	" 27	e	14 58 04.6						Ditto.
		F	15 00 07—						
332	" 27	P	15 10 30.9					282	Ditto.
		S	15 11 18.8						
		F	15 15 22—						
333	" 27	e	15 55 05.6						Ditto.
		F	15 57 45—						
334	" 27	e	17 13 19.5						Ditto.
		F	17 16 24—						
335	" 27	P	17 45 15.2					270	Ditto.
		S	17 45 51.6						
		F	17 49 53—						
336	" 27	eP	18 38 08.2					241	Ditto.
		S	18 38 40.6						
		F	18 41 23—						
337	" 27	e	20 33 39.2						Ditto.
		F	20 36 23—						
338	" 27	e	21 59 20.6						Ditto.
		F	22 01 48—						

No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km	
339	Aug. 27	e	22 05 30.3						Near Miyake Is.
		F	22 08 12—						
340	" 27	e	22 54 37.3						Ditto.
		F	22 58 20—						
341	" 27	P	23 19 05.0					179	Ditto.
		S	23 19 29.1						
		ME	23 19 46.9	1.6			-5		
		ME	23 19 53.2	1.6	-14				
		MN	23 20 03.5	2.0		-16			
		F	23 24 22—						
342	" 27	P	23 32 05.4					720	ψ = 143.0E, λ = 39.5N. E, sea off Miyako. Slight shock were felt at Miyako and Morioka.
		S	23 33 24.1						
		ME	23 34 04.1	2.0			-10		
		MN	23 34 06.2	2.3		-37			
		ME	23 34 13.2	2.1	-18				
		F	23 41 29—						
343	" 28	P	1 27 34.5					242	Near Miyake Is.
		S	1 28 07.0						
		ME	1 28 22.3	2.0	-13				
		MN	1 28 31.4	2.4		+17			
		F	1 32 49—						
344	" 28	e	12 01 03.8						Near Miyake Is.
		F	12 03 32—						
345	" 28	e	12 07 45.9						Ditto.
		F	12 09 50—						
346	" 28	e	19 56 22.1						Ditto.
		F	19 59 27—						
347	" 28	eP	20 01 19.7					233	Ditto.
		S	20 01 51.1						
		ME	20 02 16.6	2.1	+17				
		Mz	20 02 21.8	1.4			+6		
		MN	20 02 32.3	2.3		+23			
		F	20 05 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.	
348	Aug. 28	P	22	11	37.7					231	Near Miyake Is.
		S	22	12	08.8						
		ME	22	12	29.3	2.5	+25				
		Mz	22	12	30.7	2.0			-8		
		MN	22	12	34.5	2.6		+32			
		F	22	19	19-						
349	" 28	P	23	10	11.0					230	The upper course of the river Kuzi in Ibaragi pref.
		S	23	10	41.8						
		F	23	13	11--						
350	" 29	P	1	17	33.4					255	Near Miyake Is.
		S	1	18	07.8						
		F	1	20	13-						
351	" 29	e	7	06	44.6						
		F	7	08	28-						
352	" 29	P	13	59	45.4					238	Ditto.
		S	14	00	17.3						
		Mz	14	00	40.5	1.9			-5		
		MN	14	00	47.4	2.7		+23			
		ME	14	00	51.8	2.6	-21				
		F	14	06	45-						
353	" 29	e	22	48	43.5						Ditto.
		F	22	50	31-						
354	" 30	e	2	05	52.3						Near Miyake Is.
		F	2	07	32-						
355	" 30	e	3	02	38.9						Ditto.
		F	3	05	15-						
356	" 30	P	7	19	49.3					203	Near Simoduma in Ibaragi pref.
		S	7	20	16.7						
		F	7	22	11-						
357	" 30	P	13	51	45.8					260	Near Miyake Is.
		S	13	52	20.7						
		F	13	54	43-						

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.	
358	Aug. 30	e	13 57 11.8						Near Miyake Is.
		F	13 59 33—						
359	" 30	eP?	14 28 21.8					317	Ditto.
		S	14 29 04.5						
		M _N	14 29 19.6	2.1		-10			
		M _E	14 29 25.5	1.9	-7				
		F	14 34 34—						
360	" 30	e	17 03 21.3						Ditto.
		F	17 04 52—						
361	" 30	P	18 01 08.3					190	Ditto.
		S	18 01 33.9						
		F	18 03 41—						
362	" 31	e	0 41 43.8						Ditto.
		F	0 44 12—						
363	" 31	e	2 04 25.1						Ditto.
		F	2 07 18—						
364	" 31	e	9 22 20.8						Sea off Erimo cape.
		F	9 26 34—						
365	" 31	e	9 26 59.2						Sea off Miyako.
		F	9 33 37—						
366	" 31	e	14 28 51.8						Ditto.
		F	14 37 18—						
367	" 31	e	14 49 48.5						Near the city of Morioka.
		F	14 52 19—						
368	" 31	e	15 03 52.5						Ditto.
		F	15 07 32—						
369	" 31	e	16 08 26.6						Ditto.
		F	16 11 35—						
370	" 31	e	20 05 33.0						Ses off Miyako.
		F	20 07 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.	
371	Aug 31	e	23 21 09.5						Near Siomisaki.
		F	23 22 36-						
372	" 31	P	22 09 58.4					115	ψ = 138.6E, λ = 35.3N. The lower course of the river Huzi. Slight shock was felt near the centre.
		iS	22 10 13.9						
		M _N	22 10 19.1	0.8		-58			
		M _Z	22 10 21.5	0.8			+16		
		M _E	22 10 27.6	0.9	-43				
		F	22 15 31-						
373	Sept. 1	e	10 12 17.8						Near Miyake Is.
		F	10 14 49-						
374	" 1	P	12 09 52.1					188	Ditto.
		eS	12 10 17.3						
		M _E	12 10 31.6	1.3	+9				
		M _N	12 10 50.5	1.4		+10			
		F	12 15 55-						
375	" 1	P	20 43 14.1					209	Near Miyake Is.
		eS	20 43 42.2						
		F	20 46 29-						
376	" 1	e	23 42 22.4						Ditto.
		F	23 44 29-						
377	" 3	iP	1 35 06.7					62	ψ = 137.5E, λ = 35.4N. Near Iwamura in Gihu pref. Slight shock were felt at Nagoya, Gihu, Iida, Ibuki, and Hikone.
		S	1 35 15.1			-1.0	-3.8		
		M _N	1 35 15.1	0.6		-255			
		M _Z	1 35 15.2	0.5			+134		
		M _E	1 35 15.4	0.7	+174				
		F	1 41 31-						
378	" 3	e	4 11 21.1						Near Miyake Is.
		F	4 14 11-						
379	" 3	e	12 21 48.1						Ditto.
		F	12 24 24-						
380	" 3	e	16 30 05.4						Ditto.
		F	16 33 16-						
381	" 3	e	17 35 47.9						Near the city of Kumagaya.
		F	17 37 14-						

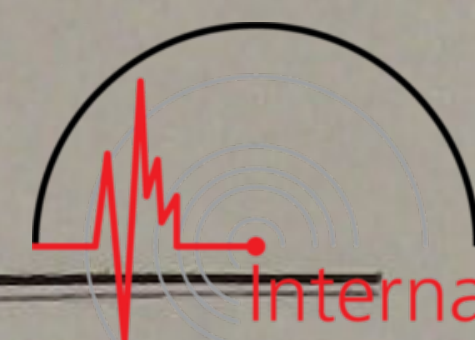


No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
382	Sept. 3	e	22 02 19.2						Sea off Omaesaki.
		F	22 04 27—						
383	" 3	eP	22 36 48.6						Near Miyake Is.
		eS	22 37 19.9						
		F	22 40 10—						
384	" 3	P	23 36 31.6					286	Ditto.
		S	23 37 10.1						
		M _N	23 37 34.6	2.1		+14			
		M _E	23 37 49.2	2.2	+13	.			
		F	23 44 37—						
385	" 4	e	1 44 12.5						Ditto. Faint record.
		F	1 46 10—						
386	" 4	e	1 46 32.0						Ditto.
		F	1 49 16—						
387	" 4	P	10 22 40.3					62	Near the city of Hamamatu.
		S	10 22 48.7						
		F	10 24 24—						
388	" 4	e	10 36 47.2						Near Mt. Asama.
		F	10 41 08—						
389	" 4	P	10 42 03.4					2200	ψ = 121.6° E, λ = 22.4° SE. sea off Taito. Slight shock was felt at Taiwan. Strong and slight shock damaged at the centre
		S	10 45 43.1						
		M _Z	10 46 03.9	3.6			-10		
		M _N	10 46 04.9	3.1		-79			
		M _E	10 46 07.9	3.5	+70				
		L	10 49 20—						
390	" 4	eP	10 58 33.6					2375	ψ = 121.7° E, λ = 22.7° N. E. sea off Daito in Taiwan. Moderate shock was felt at Daito and Slight shock was felt at all Taiwan.
		S	11 02 28.5						
		M _E	11 02 40.4	3.0	+13				
		M _N	11 03 12.9	3.0		+11			
		L	11 06 00.7						
		F	11 37 17—						
391	" 4	P	12 32 25.0					2200	ψ = 121.4° E, λ = 22.4° N. Ditto.
		eS	12 36 05.0						
		L	12 40 29.7						
		F	12 53 19—						

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	Sept. 5	e	2 32 01.9						Near Miyake Is.
		F	2 34 13-						
393	" 5	eP	3 43 01.9					158	Ditto.
		S	3 43 23.1						
		F	3 45 50-						
394	" 5	eP	11 06 23.7						Ditto.
		eS?	11 07 31.3						
		M _N	11 07 50.8	1.8		-10			
		M _E	11 08 40.1	1.8	-7				
		F	Covered.						
395	" 5	eP	11 12 46.0					391	N. part of the Kudyukuri-hama.
		S	11 13 38.6						
		F	11 17 04-						
396	" 5	P	11 56 46.1					370	Near Miyake Is.
		S	11 57 35.9						
		F	12 02 04-						
397	" 6	e	16 18 40.4						Ditto.
		F	16 22 44-						
398	" 6	e	16 36 33.7						Near Sioya cape.
		F	16 38 31-						
399	" 8	e	2 58 26.8						Near Amami Osima
		F	3 02 22-						
400	" 8	eP	4 18 49.6					291	Near Miyake Is.
		eS	4 19 28.9						
		F	4 22 33-						
401	" 8	e	11 58 11.8						A local shock. Near the city of Nagoya.
		F	12 01 15-						
402	" 8	eP	12 08 27.1					277	Near Miyake Is.
		eS	12 09 04.3						
		F	12 11 21-						
403	" 8	P	16 49 01.1					292	Ditto.
		S	16 49 40.5						
		F	16 52 30-						



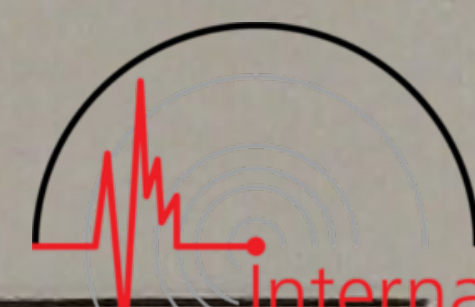
No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
404	Sept. 9	eP	14 14 55.8					1030	$\psi = 130.2E, \lambda = 32.4N.$ Near Amakusa Is. in Kumamoto pref. Slight shock was felt in Kyusyu district.
		S	14 16 46.6	2.8		+11			
		MN	14 16 47.4	2.5	+11				
		ME	14 17 22.0						
		F	14 27 13-						
405	" 9	P	15 17 44.6					4080	A distant earthquake.
		S	15 23 36.2						
		Mz	15 24 28.0	2.0			-4		
		MN ₁	15 24 48.3	2.6		-17			
		ME ₁	15 24 51.2	2.4	-13				
		L	15 30 01.7						
		ME ₂	15 31 09.5	15.8	+14				
		MN ₂	15 32 00.7	15.6		-10			
F	16 09 40-								
406	" 9	e	19 52 34.0						Near the city of Taityu.
		F	20 01 33-						
407	" 10	e	9 51 39.1						A local shock.
		F	9 54 12-						
408	" 10	e	12 38 39.8						Near Miyake Is.
		F	12 41 09-						
409	" 10	eP	12 45 27.2				254		Ditto.
		eS	12 46 01.5						
		F	12 48 33-						
410	" 10	P	12 53 45.9				232		Ditto.
		S	12 54 17.1						
		F	12 57 19-						
411	" 10	e	13 18 10.7						Sea off Inubo cape.
		F	13 21 28-						
412	" 10	P	21 22 37.2				257		Near Miyake Is.
		S	21 23 11.9						
		F	21 27 10-						
413	" 11	e	12 48 32.8						A local shock. Very faint record.
		F	12 50 32-						



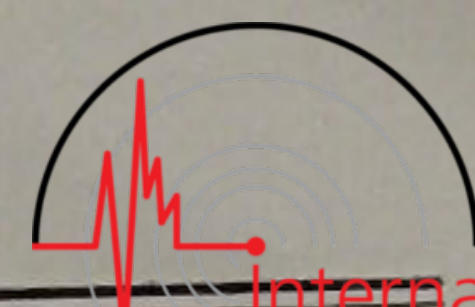
No.	Date.	Phase	Time 135° E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
			h m s	s	μ	μ	μ	km.	
414	Sept. 11	P	20 07 20.0					385	Near Mt. Norikura.
		S	20 08 06.6						
		F	20 13 43 -						
415	" 11	P	22 36 37.3					243	Near Miyake Is.
		S	22 37 10.0						
		F	22 40 14 -						
416	" 11	P	23 06 42.3		W	-5	D	1230	ψ=145.1E, λ=42.7N. SE. sea off Kusiro. Slight shock were felt at all Hokkaido, Tohaku and NE. part of Kwanto districts.
		PP	23 06 59.6						
		PP	23 07 36.9						
		S	23 08 53.9						
		M _{F1}	23 09 04.9	3.5	-165				
		M _Z	23 09 18.0	1.8		+64			
		M _{F2}	23 09 40.5	1.9	-176				
		M _{S1}	23 09 42.5	2.0		-230			
		M _{S2}	23 09 59.4	3.0		+225			
		L	23 14 14.5						
F	24 12 -								
417	" 12	P	3 27 44.4					151	Near Mt. Norikura.
		eS	3 28 04.8						
		F	3 29 46 -						
418	" 12	P	6 24 16.3					179	Near Miyake Is.
		eS	6 24 40.4						
		F	6 26 26 -						
419	" 12	eP	17 11 53.1					195	Ditto.
		eS	17 12 19.4						
		F	17 15 36 -						
420	" 12	P	22 30 38.7					195	Ditto.
		S	22 31 04.9						
		M _E	22 31 28.7	1.7	-13				
		M _N	22 31 37.1	1.8		-13			
		F	22 35 28 -						
421	" 13	e	3 11 30.8						Ditto. Faint record.
		F	3 13 09 -						



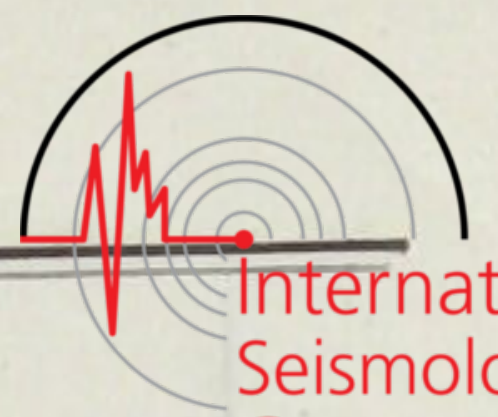
No.	Date	Phase	Time 135°E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
422	Sept. 13	iP(z)	h m s 10 44 05.1		μ	μ	μ	55	In the Ise bay.
		S	10 44 12.5						
		Mz	10 44 12.6	0.2			+9		
		ME	10 44 13.1	0.5	±18				
		MN	10 44 13.2	0.4		+19			
		F	10 45 48-						
423	" 13	P	18 27 42.1					324	ψ = 140.6E, λ = 36.5N. Near the mouth of the river Kuzi in Ibaragi pref. Slight shock was felt at Kwanto district.
		S	18 28 25.8						
		ME	18 28 43.9	1.3	-20				
		Mz	18 28 45.6	1.1			+8		
		MN	18 28 50.6	1.5		-33			
		F	18 33 04-						
424	" 14	eP	5 20 42.9					257	Near Miyake Is.
		eS	5 21 17.6						
		F	5 23 26-						
425	" 14	e	9 53 04-						Ditto
		F	9 57 40-						
426	" 14	e	10 56 25.9						A local shock. Faint record.
		F	11 01 50-						
427	" 14	eP?	17 23 35.2						Near the city of Nemuro.
		S	17 29 08.9						
		MN	17 29 25.4	2.1			-17		
		ME	17 31 10.0	2.1	+16				
		F	17 41 -						
428	" 14	eP	21 32 01.3					208	Near Miyake Is.
		S	21 32 29.3						
		F	21 33 45-						
429	" 14	e	23 02 00.9						Ditto.
		F	23 03 51-						
430	" 14	e	23 04 58.9						Ditto.
		F	23 07 33-						
431	" 14	eP	23 20 39.4					345	ψ = 141.4E, λ = 36.7N. In the Kasima-nada. Slight shock were felt at Kwanto and S. part of Tohoku districts.
		S	23 11 25.9						
		MN	23 21 45.9	4.1			+84		
		ME	23 21 09.0	4.2	-77				
		F	23 30 40						



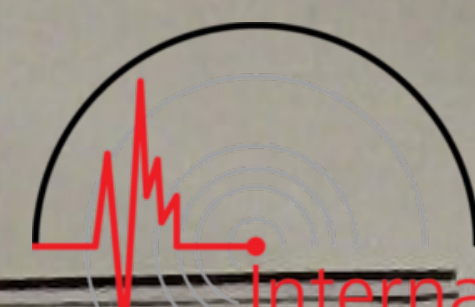
No.	Date.	Phase	Time 135° E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
432	Sept. 15	eP	5 57 51.8		μ	μ	μ	324?	Near Miyake Is.
		eS	5 58 35.4						
		F	6 02 45-						
433	" 15	e	11 57 45.9					A local shock. Near the city of Nagoya.	
		F	12 00 39-						
434	" 15	e	12 22 35.5					Near Miyake Is.	
		F	12 26 53-						
435	" 15	eP	16 38 03.6				365?	Ditto.	
		eS	16 38 52.9						
		F	16 42 12-						
436	" 15	e	20 22 48.9					A distant shock.	
		F	20 30 54-						
437	" 15	eP	22 37 03.7				195	Near Miyake Is.	
		eS	22 37 30.0						
		F	22 43 34-						
438	" 15	eP	22 52 15.8				390	N. part of the Kasima-nada.	
		S	22 53 06.5						
		F	22 56 31-						
439	" 16	eP	6 24 08.5				320	Near Miyake Is.	
		eS	6 24 51.6						
		F	6 30 39-						
440	" 16	eP	15 57 08.4				380?	Ditto.	
		S?	15 57 59.4						
		F	16 03 12-						
441	" 16	eP	21 32 14.2				610	NW. sea off Hatidyo Is.	
		eS	21 33 21.1						
		F	21 39 37-						
442	" 16	e	22 50 54.4					SE. sea off Katuura.	
		F	22 53 35-						
443	" 16	eP	23 27 07.4				600	Epicentre unknown.	
		eS	23 28 13.5						
		F	23 32 26-						



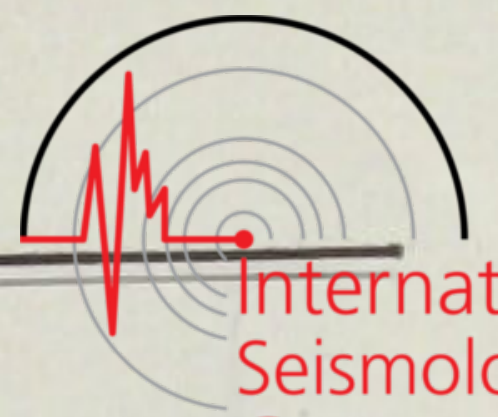
No.	Date	Phase	Time 135° E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
444	Sept. 16	eP	23 49 48.2		μ	μ	μ	800	SE. sea off Katura.
		eS	23 51 15.3						
		F	23 59 —						
445	" 17	eP	0 17 51.9					962	Epicentre unknown.
		eS	0 19 31.6						
		F	0 25 28—						
446	" 17	iP	5 52 39.7					348	$\psi = 140.5E, \lambda = 36.0N.$ Near Sahara in Tiba pref. Slight shock was felt at Kwantō district.
		S	5 53 26.6						
		Mz	5 53 30.4	2.0			-35		
		ME	5 53 46.5	2.3	+83				
		MN	5 53 49.8	2.4		+118			
		F	6 04 18—						
447	" 17	eP	13 36 19.2					314	Near Miyake Is.
		S?	13 37 01.3						
		F	13 40 24—						
448	" 17	e	13 41 30.7						Ditto.
		F	13 43 32—						
449	" 17	eP?	15 29 35.7					415?	In the Ensyu-nada.
		S	15 30 31.6						
		F	15 36 51—						
450	" 18	eP?	2 57 46.7					18?	In the Kii-strait.
		eS	2 57 49.1						
		F	2 58 49—						
451	" 18	P	17 25 58.2		+1.0	+1.0		1077	$\psi = 142.6E, \lambda = 42.0N.$ SW. sea off Urakawa. A shock were felt through out Hokkaido and NE. part of Tohoku districts.
		S	17 27 50.7						
		MN	17 28 14.6	3.4			-135		
		ME	17 28 50.4	2.8	+141				
		F	17 43 32—						
452	" 18	iP	17 52 15.0					1190	$\psi = 142.6E, \lambda = 42.0N.$ Ditto.
		S	17 54 21.8						
		ME	17 54 59.7	2.4	+45				
		MN	17 55 03.9	2.3			-40		
		Mz	17 55 08.7	2.1			+7		
		F	18 14 30—						



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.	
453	Sept. 19	P	5	11	13.4					1070	ψ = 142.8E, λ = 41.1N. E. sea off Siriya cape. Slight shock were felt at S. part of Hokkaido and N. part of Tohoku districts.
		S	5	13	08.8						
		ME	5	13	26.0	1.9	-21				
		MN	5	13	28.7	2.8		-20			
		F	5	22	42-						
454	" 19	eP	8	36	42.5					1595	SW. sea off Urakawa.
		eS	8	39	28.2						
		F	8	42	29-						
455	" 19	e	16	15	39.9						Ditto.
		F	16	19	16-						
456	" 19	e	16	19	44.2						Ditto.
		F	16	25	17-						
457	" 19	eP	16	25	28.6					275	In the Kasima-nada.
		eS?	16	26	05.5						
		F	16	28	45-						
458	" 20	e	1	28	46.3						Near Mt. Unzen.
		F	1	33	41-						
459	" 20	e	5	08	38.4						Ditto.
		F	5	12	11-						
460	" 20	e	5	37	09.6						Near Miyake Is.
		F	5	44	23-						
461	" 20	P	10	54	06.5						A distant earthquake. Near NE. sea off New Guinea.
		iP	10	54	22.1						
		PP	10	56	01.8						
		L	11	03	07.8						
		ME	11	03	41.5	35.0	-257				
		Mz	11	07	58.8	19.5			-43		
		MN	11	09	04.9	18.5		-92			
		F	12	10	50-						
462	" 20	iP	14	30	34.9						A distant earthquake. Epicentre unknown.
		PP	14	32	09.2						
		L	14	39	31.9						
		ME	14	39	47.7	18.0	-36				
		MN	14	42	36.5	15.0		+19			
		F	15	03	49-						



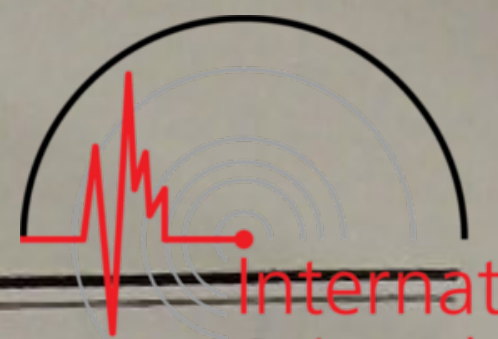
No.	Date	Phase	Time 135°E M. O. T	Period	Amplitude			△ Epicentre- distance	Remarks	
					AE	AN	Az			
			h m s	s	μ	μ	μ	km.		
463	Sept 21	eP	5 00 58.4					142	Near Miyake Is.	
		eS	5 01 17.6							
		F	5 06 45—							
464	" 21	eP	5 06 57.8					212	Ditto.	
		S	5 07 26.4							
		F	5 09 50—							
465	" 22	eP	13 28 09.8					180	S. part of the Kii-straits.	
		S	13 28 35.6							
		F	13 33 30—							
466	" 22	P(z)	23 40 32.0					203	ψ = 139.4E, λ = 36.2N. Near the city of Kumagaya. D = 100K.M. Slight shock was felt at Kwanto district.	
		S	23 40 59.4							
		ME	23 41 06.1	1.5	+48					
		F	23 47 10—							
467	" 23	eP	18 25 42.6						A distant shock.	
		S	18 27 18.8							
		F	18 33 41—							
468	" 24	P	2 32 56.2					353	ψ = 140.5E, λ = 34.8N. S. sea off Katuura. Slight shock was felt at Kwanto district.	
		S	2 33 43.8							
		Mz	2 33 45.5	1.6						
		ME	2 33 46.7	1.7	+18					
		MN	2 33 46.7	1.5		+14				
		F	2 39 39—							
469	" 24	e	13 09 46.7						Near the city of Kohu.	
		F	13 12 46—							
470	" 25	P	1 38 51.0					385	WSW. sea off Hatidyo Is.	
		S	1 39 42.8							
		ME	1 39 45.5	2.9	-70					
		MN	1 39 54.6	3.0		±114				
		F	1 50 25—							
471	" 25	eP	1 54 44.5					365	NW. sea off Hatidyo Is.	
		eS	1 55 33.8							
		Mz	1 55 57.8	2.9						
		ME ₁	1 56 00.3	3.2	+115					
		MN ₁	1 56 01.7	3.4		+121				
		MN ₂	1 56 41.5	2.7		-80				
		ME ₂	1 57 27.8	2.3	+90					
		F	2 07 40—							



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.	
472	Sept. 26	eP	23	11	14.9					397	Near Miyake Is.
		eS	23	12	08.4						
		F	23	16	44-						
473	" 27	e	8	43	03.4						Ditto.
		F	8	44	18-						
474	" 27	P	11	28	16.7					36	Near Tiryu in Aiti pref. Slight shock were felt at Nagoya and Koromo.
		S	11	28	21.5						
		M _N	11	28	21.7			-33			
		M _E	11	28	22.1		±43				
		F	11	30	13-						
475	" 27	e	12	32	01.9						Near the city of Taito.
		F	12	36	19-						
476	" 28	eP	3	49	03.8					758	ψ = 142.4E, λ = 42.4N. The lower course of the river Niikappu
		eS	3	50	26.5						
		F	3	53	42-						
477	" 28	P	7	34	53.1		+2.1		+16.1	65	ψ = 136.3E, λ = 35.4N. W. foot of Mt. Ibuki. Slight shock was felt at Kinki and W. part of Tyubu districts.
		S	7	35	01.9						
		M _E	7	35	03.3		-10.4				
		M _N	7	35	02.9			+47			
		F	7	41	20-						
478	" 28	eP	15	40	52.1					207	Near Miyake Is.
		S	15	41	39.1						
		F	15	45	15.4						
479	" 29	eP	10	05	29.2						Ditto.
		eS	10	06	05.7						
		F	10	10	06-						
480	" 29	eP	17	23	26.4					255	Ditto.
		S	17	24	00.8						
		M _E	17	24	06.0	3.0	±25				
		M _N	17	24	10.0	2.6		±28			
		F	17	31	40-						
481	" 29	eP	19	30	05.6					222	Near Toyooka.
		S	19	30	35.5						
		F	19	33	37.8						

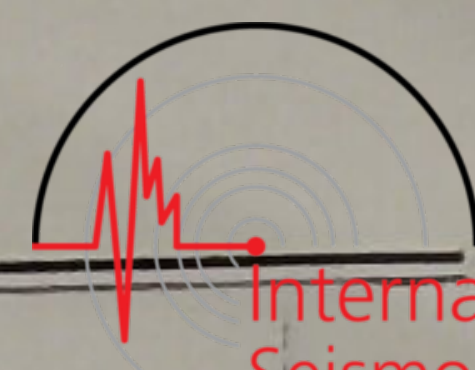
No.	Date	Phase	Time 135°E M. O. T			Period s	Amplitude			△ Epicentre- distance km.	Remarks
							AE	AN	Az		
482	Sept. 29	e	20	44	06.9					A distant shock.	
		F	20	48	36.8						
483	" 30	P	9	07	43.9				365	$\psi = 140.2E, \lambda = 35.6N.$ Near Tiba city. Moderate shock was felt near the centre and Slight shock was felt at the most part of Kwanto district.	
		S	9	08	33.3						
		M _L	9	08	40.1	1.7					±38
		ME ₁	9	08	47.8	2.2	+150				
		M _N	9	08	54.9	2.5		-285			
		M _{L2}	9	09	06.5	2.2	-161				
484	" 30	e	19	15	18.4					In the Kudyukuri-hama.	
		F	19	19	22-						
485	" 30	eP	22	37	26.5				318	Ditto	
		S	22	38	09.3						
		F	22	42	12-						
486	Oct. 1	eP	6	51	22.8				222	Ditto.	
		S	6	51	52.7						
		F	6	54	47-						
487	" 1	eP	14	50	06.0				160	Near Miyake Is.	
		eS	14	50	27.6						
		F	14	52	25-						
488	" 2	iP	14	35	37.3		-1.0	-2.1	1100	$\psi = 145.8E, \lambda = 42.9N.$ Sea off Otiisi cape. A shock were felt at S. part of Hokkaido E. part of Tohoku and a part of Kwanto districts. (deep focus)	
		iS	14	37	35.3						
		ME	14	38	25.7	2.7	+82				
		M _N	14	38	44.9	2.5		-116			
		Mz	14	38	11.5	2.0					-27
		S ₂₃	14	48	35.8						
489	" 2	P	15	31	50.2				310	Near Mobarra in Tiba pref.	
		eS	15	32	31.9						
		F	15	35	40-						
490	" 2	eP	18	29	23.5				570	$\psi = 130.7E, \lambda = 31.0N.$ Sea off Sata cape in Kagosima pref. A shock were felt at Kyusyu, Sikoku and Tyugoku districts. (deep focus)	
		S	18	30	26.7						
		M _N	18	30	40.8	1.1		+23			
		ME	18	30	45.1	1.0	±21				
		F	18	37	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.			
491	Oct. 2	eP	19 33 50.7					187	Near Moriya in Ibaragi pref.		
		eS	19 34 15.8								
		F	19 36 42—								
492	" 2	e	20 11 12.7						Near Tiba city.		
		F	20 13 13.3								
493	" 3	e	8 26 07.2						Near Miyake Is.		
		F	8 28 25.2								
494	" 4	e	14 13 30.3						A local shock? Feeble tremors.		
		F	14 16 48—								
495	" 4	iP	14 21 20.6			-1.0	-1.1	2930	Near the Palao Is.		
		S	14 25 58.3								
		ME	14 25 59.7							3.2	-29
		MN	14 26 04.8							2.7	±22
		F	14 35 25—								
496	" 4	e	16 36 47.7						Near Miyake Is.		
		F	16 40 06—								
497	" 5	eP?	10 56 36.0					119?	In the Ise bay.		
		iS	10 56 52.0								
		F	11 00 53—								
498	" 6	e	6 15 48.4						Near Sioya cape.		
		F	6 17 22.7								
499	" 6	eP	6 20 37.4					141	In the Nara pref.		
		S	6 20 56.4								
		F	6 22 56—								
500	" 6	eP	12 35 36.1					291	Near Miyake Is.		
		eS	12 36 15.4								
		MN	12 36 49.2							1.8	-9
		F	12 41 58—								
501	" 6	P	18 48 41.1					252	Ditto.		
		S	18 49 15.0								
		F	18 53 23—								

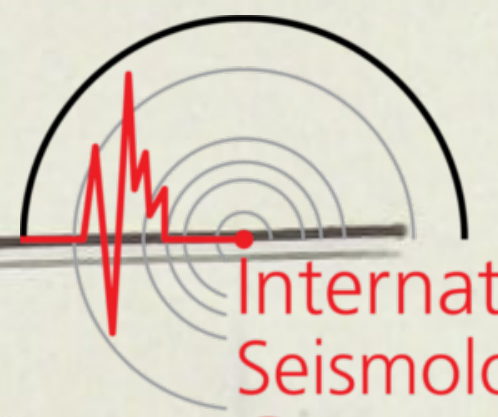


No.	Date	Phase	Time 135°E M. O. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
			h m s	s	μ	μ	μ	km.	
502	Oct. 6	eP	21 07 46.6					2937	Near Miyake Is.
		S?	21 08 26.1						
		F	21 11 45.7						
503	" 7	eP	17 28 38.6				262	Ditto.	
		S	17 29 13.8						
		F	17 32 22.6						
504	" 7	eP	18 40 32.5				258	Near Hatidyo Is.	
		S	18 41 07.3						
		F	18 45 35-						
505	" 7	eP	20 17 57.3					Near Miyake Is.	
		S?	20 18 29.1						
		F	20 19 57-						
506	" 8	P	0 42 50.7				331	W. sea off Hatidyo Is	
		S	0 43 35.2						
		F	0 46 26-						
507	" 8	eP	9 46 22.1				409	Near the city of Utunomiya. P. S. uncertain.	
		eS	9 47 17.3						
		F	9 50 07-						
508	" 8	e	10 07 03.6					In the Kasima-nada.	
		F	10 08 39-						
509	" 8	e	18 28 18.2					A local shock. Near the city of Nagoya.	
		F	18 30 48-						
510	" 9	e	2 36 46.1					Near the city of Taityu.	
		F	2 39 40-						
511	" 9	eP	19 52 19.9				271	Near Tiba city.	
		S	19 52 56.4						
		F	19 56 42-						
512	" 10	P	20 14 28.7				288	Near Miyake Is.	
		S	20 15 07.5						
		F	20 19 21-						
513	" 12	eP	7 23 23.1				5165?	A distant earthquake.	
		eS?	7 30 13.9						
		L	7 32 13.4						
		F	7 50 -						

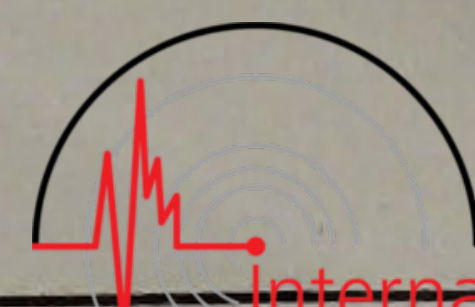
No.	Date.	Phase	Time 135° E M. C. T.	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
514	Oct. 13	eP	1 16 07.9					174	The lower course of the river Arita.
		S	1 16 31.3						
		F	1 19 15-						
515	" 13	eP	1 47 06.9					935	ψ = 143.3E, 40.4N. NE. sea off Miyake. A shock were felt at most part of Tohoku S. part of Hokkaido and a part of Kwanto districts.
		iP	1 47 10.7						
		S	1 48 58.5						
		ME	1 49 03.5	3.4	±285				
		Mz	1 49 30.6	3.0		-85			
		F	Covered.						
516	" 13	eP	2 02 15.7					860	Ditto.
		S	2 03 49.7						
		MN	2 05 00.5	3.9		±92			
		ME	2 05 06.7	2.8	+67				
		F	Covered.						
517	" 13	eP	2 15 14.6					810	Ditto.
		S	2 16 42.5						
		MN	2 16 52.1	3.0		+13			
		ME	2 17 11.2	3.1	-14				
		F	2 30 28-						
518	" 13	eP	3 08 31.7					923	Sea off Miyako.
		S	3 10 12.0						
		F	3 15 42-						
519	" 13	P	3 15 55.6					945	Ditto.
		S	3 17 42.1						
		ME	3 18 02.9	3.0	-65				
		MN	3 18 04.5	3.2		±79			
		F	3 33 38-						
520	" 13	eP	3 39 08.0					974	Ditto.
		eS	3 40 52.4						
		F	3 44 05-						
521	" 13	eP	10 59 17.6					890	ψ = 143.4E, λ = 40.2N. Sea off Miyako. A shock were felt at NE. part of Tohoku and S. part of Hokkaido.
		S	11 00 54.7						
		ME	11 01 26.1	3.6	-116				
		MN	11 01 37.7	3.5		-176			
		Mz	11 02 49.5	1.8		-26			
		F	11 13 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.	
522	Oct. 13	eP	11 42 05.6					1170	Sea off Miyako.
		eS	11 44 10.5						
		F	11 49 33—						
523	" 13	eP	11 52 06.1				1085	Ditto.	
		eS	11 54 02.6						
		F	11 58 00—						
524	" 13	eP	18 20 59.4				830	Ditto.	
		eS	18 22 29.0						
		F	18 26 16—						
525	" 13	eP	23 14 24.5				804	Ditto.	
		eS	23 15 51.9						
		F	23 21 21—						
526	" 14	eP	9 06 08.8				990	NE. sea off Miyako.	
		eS	9 07 55.9						
		F	9 10 50—						
527	" 14	eP	12 52 16.1				833	Ditto.	
		eS	12 53 46.4						
		F	12 57 13—						
528	" 15	eP	4 51 10.4				577	Epicentre unknown.	
		eS	4 52 14.1						
		F	4 56 15—						
529	" 15	e	14 12 06.1					Epicentre unknown. Feeble tremors.	
		F	14 15 05—						
530	" 15	eP	15 38 58.6				950	ESE. sea off Siriya cape.	
		eS	15 40 41.6						
		F	15 46 03—						
531	" 15	eP	19 32 25.8				844	NE. sea off Miyako.	
		S	19 33 57.2						
		F	19 42 57—						



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.	
532	Oct. 15	iP	23	36	07.1		+11	-23	-15	343	ψ = 135.4 E, λ = 37.7 N. NW. sea of Noto peninsula. D = 280 km. Slight shock was felt at Kwanto district.
		S	23	36	53.4						
		ME	23	36	55.7	2.4	+57				
		Mz	23	37	16.5	1.6			-31		
		MN ₁	23	37	17.3	2.5		±70			
		MN ₂	23	37	54.8	2.6		-79			
		F	23	52	29-						
533	" 16	e	20	41	00.0						A local shock? Very faint record.
		F	20	44	18-						
534	" 18	P	2	08	08.4					39	A local shock. Near the city of Nagoya.
		S	2	08	13.7						
		F	2	09	25-						
535	" 18	eP	9	13	49.5					950	ψ = 143.8 E, λ = 40.2 N. ENE. sea off Miyako. A shock were felt at all Tohoku and S. part of Hokkaido.
		iP	9	14	08.2						
		S	9	15	32.7						
		Mz	9	16	05.3	3.4			-100		
		MN	9	16	13.4	2.5		-395			
		ME	9	16	28.7	2.5	±211				
F			Coverd.								
536	" 18	eP?	9	29	29.8						Ditto. P: uncertain.
		S	9	32	43.7						
		ME	9	33	23.6	2.9	+53				
		MN	9	33	29.8	2.8		-74			
		F			Coverd.						
537	" 18	eP	9	38	51.4					820	Sea off Miyako.
		S	9	40	20.6						
		F			Coverd.						
538	" 18	eP	10	40	01.4					860	Ditto.
		S	10	41	34.4						
		F	10	45	14-						
539	" 18	P	14	53	11.1					1184	Ditto
		S	14	55	17.5						
		ME	14	55	50.9	2.5	+20				
		MN	14	56	54.3	2.4		-30			
		F	15	08	26-						



No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
540	Oct., 18	eP	15 12 25.1		μ	μ	μ	830	Sea off Miyako.
		S	15 13 55.0						
		ME	15 14 33.0	2.9	± 12				
		MN	15 14 35.8	2.9		± 13			
		F	15 21 40-						
541	" 18	eP	16 12 29.7				1570 ?	Ditto.	
		S?	16 15 14.0						
		F	16 21 25-						
542	" 18	P	20 10 30.3				2690	A distant earthquake. Epicentre unknown.	
		S?	20 14 50.0						
		MN	20 15 19.9	5.5		-41			
		ME	20 16 20.3	4.7	-27				
		L?	20 16 24.9						
		F	20 59 -						
543	" 18	P	23 55 44.9				875	$\psi = 143.9E, \lambda = 40.4N.$ Sea off Miyako. Slight shock were felt S. part of Hokkaido and NE. part of Tohoku districts.	
		S	23 57 20.5						
		ME	23 58 00.3	2.9	± 128				
		MN	23 58 01.1	3.1		-168			
		Mz	23 58 40.0	1.5					+25
		F	0 19 43-						
544	" 19	P	6 53 18.2				930	Ditto.	
		S	6 54 59.6						
		ME	6 55 25.5	2.6	-131				
		MN	6 55 35.2	2.9		-168			
		F	7 09 20-						
545	" 19	P	9 53 40.5				980	$\psi = 143.3E, \lambda = 40.2N.$ Ditto. Slight shock were felt at Aomori and Iwate pref.	
		S	9 55 26.6						
		MN	9 55 34.2	3.2		-37			
		ME	9 55 41.4	3.6	+26				
		F	10 05 50-						
546	" 19	eP	11 40 49.0				1120	$\psi = 143.4E, \lambda = 40.3N.$ Ditto.	
		S	11 42 48.7						
		MN	11 42 50.3	2.9		-37			
		ME	11 43 41.7	2.7	+30				
		F	11 54 20-						

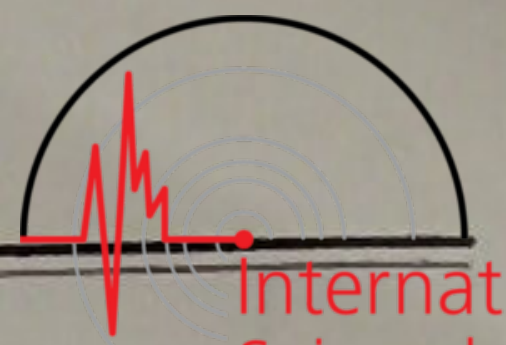
No.	Date.	Phase.	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
547	Oct. 20	eP	8 07 28.1					810	ESE. sea off Soriya cape.
		eS	8 08 56.4						
		F	8 13 20--						
548	" 20	eP	23 56 00.8					1010	NE. sea off Miyako.
		eS	23 57 49.5						
		F	0 02 27--						
549	" 23	e	18 04 20.1						E. sea off Sioya cape.
		F	18 06 21--						
550	" 23	eP	20 23 12.1					259	The course of the river Dosi in Yamanasi.
		eS	20 23 47.0						
		F	20 24 25--						
551	" 24	eP	3 28 16.7					245	ψ = 140.1E, λ = 35.6N. Near Tiba city. Slight shock was felt in Kwanto district.
		S	3 28 49.5						
		F	3 32 37--						
552	" 25	eP	1 46 54.6					620	ψ = 141.8E, λ = 38.7N. Sea of the Sizukawa bay in Miyagi pref. Slight shock was felt in Tohoku district.
		eS	1 48 02.3						
		F	1 52 13--						
553	" 25	eP	19 22 21.4					995	NE. sea off Miyako.
		S	19 24 08.9						
		F	19 28 40--						
554	" 25	eP	22 01 41.6					402	Near Miyake Is.
		S?	22 02 35.7						
		F	22 05 53--						
555	" 28	eP	4 04 15.6					82	In the Kii-straits.
		eS	4 04 26.7						
		F	4 06 49--						
556	" 29	eP	4 10 30.2					39	A local shock. Near the city of Nagoya
		iS	4 10 35.5						
		ME	4 10 35.4		-15				
		MN	4 10 35.5			-16			
		F	4 12 44--						



No.	Date	Phase	Time 135°E M. O. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
			n m s	s	μ	μ	μ	km.	
557	Oct. 29	eP	11 52 16.1	3.0	+8			415	Sea off the Kumano-nada.
		S	11 53 12.3						
		M _E	11 53 14.4						
		F	11 58 50-						
558	" 29	eP	18 50 23.5				773	Sea off Miyako.	
		eS	18 51 47.8						
		F	18 58 28-						
559	" 30	P	11 05 58.9	2.1	+12		1020	ϕ = 143.1E, λ = 41.5N. S. sea off Erimo cape. Slight shock was felt at NE. part of Japan.	
		eS	11 07 48.8						
		M _N	11 08 20.6	-16					
		M _E	11 08 24.0	2.4					
		F	11 15 22-						
560	" 30	e	11 30 55.2				329	Sea off Inubo cape.	
		S	11 31 39.5						
		F	11 33 33-						
561	" 30	e	13 04 31.0					SE. sea of Katuura in Tiba pref.	
		F	13 07 41-						
562	" 31	eP	2 03 15.4				983	ENE. sea off Miyako.	
		eS	2 05 01.7						
		F	2 09 35-						
563	" 31	eP	15 54 24.5				710	E. sea off Miyako.	
		eS	15 55 42.4						
		F	15 59 36-						
564	" 31	e	22 00 35.3					Ditto.	
		F	22 03 35-						
565	Nov. 1	eP	1 38 46.5				880	ENE. sea off Miyako.	
		S?	1 40 22.4						
		F	1 45 19-						
566	" 1	eP	4 54 19.3				194	Near the coast of Wakanoura.	
		S	4 54 45.9						
		F	4 59 17-						
567	" 1	eP	5 03 21.1				660	ENE. sea off Miyako.	
		S?	5 04 32.9						
		F	5 08 18-						



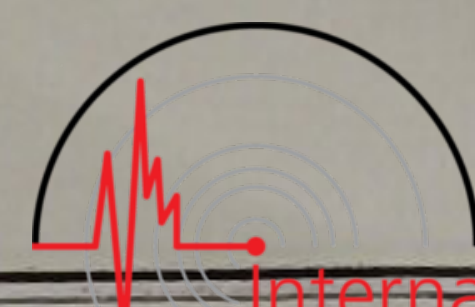
No.	Date.	Phase	Time 135° E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks (1)
					AE	AN	AZ		
			h m s	s	μ	μ	μ	km.	
568	Nov. 2	eP	1 28 45.1					9555	A distant earthquake. In the Celebes sea.
		iP	1 28 57.2						
		L	1 39 23.2						
		F	1 50 29 -						
569	" 2	eP	11 04 50-				442 ?	Sea off Kinkwa-zan.	
		eS?	11 05 49.5						
		F	11 08 23-						
570	" 2	eP	20 36 32.5				261	In the Kasima-nada.	
		eS	20 37 07.7						
		F	20 38 20-						
571	" 2	eP	22 55 38.2				1010	ψ = 142.2E, λ = 4.9N. The mouth of the river Niikappu in Hokkaido. Slight shock was felt at S. part of Hokkaido.	
		eS	22 57 26.7						
		F	23 01 31-						
572	" 3	eP	23 02 21.3				74	Near Neo in Gihu pref.	
		eS	23 02 31.2						
		F	23 03 52-						
573	" 5	eP	16 31 43.4				281	In the Ensyu-nada.	
		eS	16 32 21.2						
		F	16 34 23-						
574	" 6	eP	21 42 18.3				108	A local shock. Near the city of Nagoya?	
		S	21 42 32.9						
		F	21 43 23-						
575	" 9	eP	1 36 24.4				950	Sea off Miyako.	
		eS	1 38 07.8						
		F	1 42 36-						
576	" 9	P	13 01 37.2				790	Near Kurosima in Kagosima pref.	
		S	13 03 02.7						
		F	13 07 33-						
577	" 9	e	14 55 27-						
		F	14 56 48-						
578	" 10	eP	1 29 34.0				65	A local shock. Near the city of Nagoya.	
		S	1 29 42.7						
		F	1 31 22-						



No.	Date	Phase	Time 135°E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	AZ		
579	Nov. 10	eP	h m s 4 31 30.3		μ	μ	μ	167	Near the city of Kumagaya.
		S	4 31 52.8						
		F	4 33 35-						
580	" 10	P	10 15 46.3					350	N. part of Kudyukuri-hama.
		S	10 16 33.5						
		F	10 20 41-						
581	" 10	e	10 21 07.2						Ditto.
		F	10 23 30-						
582	" 10	eP	12 31 08.6					338	N. part of Kudyukuri-hama.
		S	12 31 54.1						
		F	12 34 31-						
583	" 12	e	3 58 55.6						E. sea Miyako.
		F	4 02 27-						
584	" 12	eP?	8 54 43.2	1.6	+10			170 ?	NE. sea off Ito in Idu peninsula.
		S	8 55 06.1						
		MN	8 55 10.5						
		ME	8 55 41.3						
		F	8 58 39-						
585	" 14	eP	5 05 23.2					680	ϕ = 14.9E, λ = 39.0N. In the Yoshihama bay in Iwate pref.
		eS	5 06 37.7						
		F	5 10 35 -						
586	" 14	eP	16 15 03.1					604	Epicentre unknown.
		eS	16 16 09.5						
		F	16 19 40-						
587	" 15	e	5 04 38.7						A distant shock.
		F	5 15 39-						
588	" 15	eP	18 58 15.4	1.8	+13			438	ϕ = 141.6E, λ = 37.9N. Sea off Kinkwa-zan.
		S	18 59 14.4						
		ME	19 00 41.1						
		MN	19 00 44.5						
		F	19 05 30-						
589	" 16	P	2 07 20.5					419	Near Kasumigaura.
		eS	2 08 16.9						
		F	2 11 28-						



No.	Date.	Phase	Time 135° E M. C. T			Period s	Amplitude			△ Epicentre- distance km.	Remarks
							A _E μ	A _N μ	A _Z μ		
590	Nov. 16	eP	22	56	39.2				371	In the Kasima-nada.	
		eS?	22	57	29.2						
		F	23	00	42—						
591	" 17	eP	17	32	57.3				50	A local shock. Near the city of Nagoya.	
		S	17	33	03.9						
		F	17	34	33—						
592	" 17	e	23	24	31.2					Near Gobo in Wakayama pref.	
		F	23	26	47—						
593	" 18	e	2	30	02.2					In the Tokyo bay.	
		F	2	32	54—						
594	" 18	e	13	02	15.9					Near the Teganuma in Tiba pref.	
		F	13	03	50—						
595	" 18	eP	14	44	40.4				680	E. sea off Inubo cape.	
		S	14	45	55.0						
		F	14	51	43—						
596	" 19	eP	7	38	14.5				7413	ψ = 143.3E, λ = 40.5N. E. sea off the mouth of the river Mabuti.	
		eS	7	39	10.1						
		F	7	39	29—						
597	" 19	eP	8	40	14.1				409	ψ = 134.1E, λ = 33.8N. The upper course of the river Naka in Tokushima pref. Moderate shock were felt in Sikoku. W. part of Kii and at the coast of Setouti.	
		eS	8	41	09.2						
		ME	8	41	14.0	1.5	+18				
		MN	8	41	17.3	1.5		-16			
		Mz	8	41	46.7	1.7					-9
		F	8	50	39—						
598	" 20	iP	2	44	51.2		-1.8	+2.1	+13.3	98	ψ = 138.0E, λ = 35.0N. The middle course of the river Ooi. (Near Tokunoyama). Slight shock were felt in Aiti, Mie, Siduoka, Gihu and Nagano pref.
		S	2	45	04.4						
		MN	2	45	04.7	0.7		+215			
		ME ₁	2	45	05.3	0.6	+154				
		Mz	2	45	07.5	0.9			+66		
		ME ₂	2	45	11.3	0.8	-156				
		F	2	54	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.	
599	Nov. 21	eP	6 51 15.3					376	SE. sea off Inubo cape.
		S	6 52 06.0						
		ME	6 52 17.8	1.7	+13				
		MN ₁	6 52 18.4	1.9		+13			
		MN ₂	6 52 40.8	2.1		-13			
		Mz	6 52 19.6	1.9			+6		
		F	6 58 13-						
600	" 21	eP	17 43 58.1						SE. sea off Otiisi capo.
		S?	17 46 07.7						
		F	17 52 43-						
601	" 22	eP	5 00 59.3					326	N. part of the Kasima-nada.
		S	5 01 43.2						
		ME	5 02 17.8	1.8	-16				
		MN	5 02 20.4	2.1		+26			
		Mz	5 02 22.2	1.3			-9		
		F	5 08 24-						
602	" 22	eP	20 29 07.9					194	In the Kii-straits.
		S	20 29 34.0						
		ME	20 29 38.2	0.6	+9				
		MN	20 29 35.3	1.1		-12			
		F	20 36 10-						
603	" 25	eP?	11 29 40.0					286?	ψ=135.2E, λ=33.9N. The lower course of the river Hidaka. Moderate shock was felt near Wakayama city.
		S	11 30 01.5						
		ME	11 30 09.7	0.7	+27				
		MN	11 30 16.5	1.6		+25			
		Mz	11 30 16.9	0.7			-10		
		F	11 35 38-						
604	" 25	eP	13 19 34.2					311	N. part of Kudyukuri-hama.
		S	13 20 16.1						
		ME	13 20 41.9	2.5	+37				
		MN	13 20 44.0	2.5		-45			
		Mz	13 20 35.8	1.8			-7		
		F	13 26 25-						
605	" 26	e	7 13 24.7						E. sea off Otiisi cape.
		F	7 20 14-						



No.	Date.	Phase.	Time 135°E M. O. T s m h	Period s	Amplitude			△ Epicentre distance km.	Remarks
					AE μ	AN μ	Az μ		
606	Nov. 26	eP	22 03 31.1					1567	A distant earthquake. Epicentre unknown.
		S	22 06 14.8						
		F	22 14 06—						
607	" 28	eP	12 12 29.3					162	Near Hukuti in Yamanasi pref. Slight shock was felt at the centre.
		S	12 12 51.1						
		MN	12 12 56.0	1.4		+27			
		ME	12 12 57.8	1.4	-20				
		Mz	12 13 15.1	1.3			-9		
608	" 30	S ?	12 36 15.2					In the Bashee channel. P: uncertain.	
		F	12 43 10.2						
609	Dec. 1	iP	22 50 35.3					57	Near Toyotomi in Aiti pref. A Slight shock was felt near the centre.
		S	22 50 42.9						
		Mz	22 50 43.0				+12		
		ME	22 50 43.1	0.2	-32				
		MN	22 50 43.1	0.2		+21			
610	" 2	eP	8 47 30.3					1875	Sea off Amami Osima.
		L	8 50 42.0						
		F	9 05 —						
611	" 3	P	1 45 09.0					1930	Ditto.
		S	1 48 25.6						
		F	1 57 41—						
612	" 3	eP	17 33 43—					445	Near Adumi in Hyogo pref.
		S	17 34 42.8						
		F	17 38 02—						
613	" 4	eP	1 17 30.1					251	ψ = 140.1E, λ = 36.1N. Near Tateno in Ibaragi pref. Moderate shock was felt in Kwanto.
		S	1 18 03.9						
		MN	1 18 17.9	1.1		+18			
		ME	1 18 18.2	1.2	+19				
		F	1 24 —						
614	" 4	eP	2 46 53.8					930	ψ = 146.4E, λ = 42.9N. ENE. sea off Nosyahu cape. Moderate shock was felt in Hokkaido.
		S	2 48 34.9						
		F	2 53 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.	
615	Dec. 6	e	11 25 09.2						ψ = 142.6E, λ = 41.9N. Sea off Urakawa in Hokkaido.
		F	11 29 37-						
616	" 6	eP	12 03 57.5					640	Sea off Miyako.
		S	12 05 07.6						
		F	12 07 57-						
617	" 8	iP	2 06 23.7		-1.9	-1.2	+2.4	167	Near Wakayama city.
		iS	2 06 46.2						
		ME	2 06 48.4	0.7	±11				
		MN	2 06 50.4	0.9		+24			
		F	2 12 36-						
618	" 11	eP?	8 53 27.2					673?	ENE. sea off Inubo cape. P and S. phase time uncertain.
		S?	8 54 40.5						
		MN	8 54 52.6	2.5		-28			
		ME	8 55 00.4	2.5	+24				
		F	9 01 25-						
619	" 12	eP	0 18 07.0					258	In the Tokyo bay.
		S	0 18 41.8						
		MN	0 19 06.1	2.0		-13			
		F	0 22 10-						
620	" 14	eP	4 03 06.3					45	A local shock. Near Gihu city.
		S	4 03 12.3						
		F	4 04 12-						
621	" 14	Pz	10 49 40.5					311	Epicentre unknown.
		Mz	10 49 44.7	1.1		+24			
		ME	10 49 51.3	0.9	+21				
		MN	10 49 56.7	0.9		-37			
		eS	10 50 22.4						
		F	11 00 08-						
622	" 14	P	21 50 42.2					1710	ψ = 143.0E, λ = 22.5N. S. sea off Titizima.
		S	21 53 39.2						
		ME	21 53 49.6	3.3	+36				
		MN	21 53 52.9	2.5		+44			
		F	22 05 52-						
623	" 14	eP	22 10 03.4					910	NE. sea off Miyako.
		eS	22 11 42.3						
		F	22 14 42-						



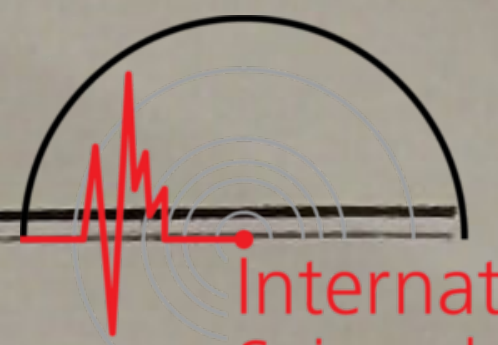
No.	Date.	Phase	Time 135° E M. C. T	Period	Amplitude			△ Epicentre- distance	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
624	Dec. 15	P	16 16 53.7					10420	A distant earthquake.
		L	16 28 10.6						
		MN	16 35 19.1	15.4		-1118			
		ME	16 35 20.0	16.0	+691				
		F	17 36 —						
625	" 16	eP	4 38 18.9				398	E. sea off Sioya cape.	
		iS	4 39 12.5						
		F	4 43 21—						
626	" 16	iP	15 36 50.1				688	Sea off the Hirota bay in Iwate pref.	
		eS	15 38 05.9						
		F	15 40 37—						
627	" 17	P	2 15 50.9				1937	Epicentre unknown. S phase uncertain.	
		S?	2 16 16.8						
		F	2 22 26—						
628	" 18	P	4 21 15.0					ψ = 125.3E, λ = 23.9N. S. sea off Miyake Is. A Shock were felt at Taiwan and Isigaki Is.	
		L	4 26 49.9						
		F	5 01 32—						
629	" 18	e ?	16 28 05.0					Feeble tremors. A distant shock?	
		F	16 35 43—						
630	" 18	e	21 28 18.1					NE. sea off Sioya cape. Feeble tremors.	
		F	21 31 33—						
631	" 19	e	2 05 33.1					A distant shock. Epicentre unknown.	
		F	2 07 35—						
632	" 19	P	14 27 45.6				631	ψ = 142.3E, λ = 37.6N. SE. sea off Kinkwa-zan. Slight shock was felt in Tohoku district.	
		S	14 28 54.7	2.2		+16			
		MN	14 29 34.5						
		F	14 33 23—						
633	" 20	eP	4 30 27.3				48	A local shock. Near the city of Nagoya.	
		iS	4 30 33.8						
		F	4 31 31—						
634	" 20	iP	8 51 44.3				44	Near Mt. Kamaga-dake in Mie pref. Slight shock was felt at Ono in Aiti pref.	
		iS	8 51 50.2						
		MN	8 51 50.6			-11			
		ME	8 51 50.7			+10			
		F	8 55 17—						



No.	Date.	Phase.	Time 135 ^c E M. C. T			Period	Amplitude			△ Epicentre- distance	Remarks
							AE	AN	Az		
			h	m	s	"	μ	μ	μ	km.	
635	Dec. 20	P	14	47	40.2					332	ψ = 141.4E, λ = 36.7N. N. part of the Kasima-nada. Moderate shock was felt in Tohoku district.
		eS	14	48	24.8						
		MN ₁	14	48	41.8	2.1		±44			
		Mz	14	48	44.6	1.7			+21		
		ME	14	48	45.1	2.2	±47				
		MN ₂	14	49	01.4	2.0		-49			
		F	15	00	25-						
636	" 20	e	20	30	53.8						N. sea off Hatizyo Is. Feeble tremors.
		F	20	37	24-						
637	" 20	eP	22	31	01.5					442	Sea off Inubo cape.
		eS	22	32	01.1						
		F	22	35	24-						
638	" 21	eP	3	41	28.9					2760	A distant earthquake. Epicentre unknown.
		S	3	45	53.9						
		ScS?	3	53	11.9						
		F	4	08	15-						
639	" 21	eP	9	17	08.6					310	Near Sisaka-zima in Ehime pref.
		S	9	17	50.4						
		F	9	21	46-						
640	" 21	eP	9	34	11.1					381	The middle course of the river Hidaka.
		S	9	35	02.5						
		F	9	37	24-						
641	" 21	iP	15	17	10.6					40	Near Komono in Mie pref. Very slight shock was felt at W. part of Aiti pref and Slight was felt in Mie pref.
		S	15	17	16.0						
		ME	15	17	16.4	0.7	+38				
		MN	15	17	16.8	0.5		+37			
		Mz	15	17	16.0	-			+17		
		F	15	23	23-						
642	" 22	eP	1	22	52.7					415	Sea off Inubo cape. S phase. Time approximately.
		S?	1	23	48.6						
		F	1	28	16-						
643	" 22	eP	2	00	20.6					134	Near Yura in Wakayama pref.
		S	2	00	38.6						
		F	2	02	30-						



No.	Date.	Phase	Time 135° E M. O. T			Period	Amplitude			△ Epicentre- distance	Remarks
							A _E	A _N	A _Z		
			h	m	s	s	μ	μ	μ	km.	
644	Dec. 23	iP	4	11	50.7					41	Near Komono in Mie pref. A Slight shock were felt at Koromo and Tokonabe in Aiti pref.
		S	4	11	56.2						
		M _E	4	11	56.6	0.5	+11				
		M _N	4	11	56.8	0.4		-12			
		F	4	13	35-						
645	" 23	iP	9	29	23.1		+2.3	-1.6	-26.7	42	ψ = 137.3E, λ = 35.3N. Near Obara in Aiti pref. Slight shock were felt in Aiti, Mie, Siduoka, Gihu, Yamanasi and Siga pref.
		S	9	29	28.7						
		M _E	9	29	30.4	-	-162				
		M _N	9	29	29.8	-		-132			
		M _Z	9	29	33.0	-			-80		
		F	9	29	44.0						
646	" 23	eP	23	47	36.7						Near the Tisima Is. S phase uncertain.
		S	23	50	13.2						
		F	23	58	33-						
647	" 24	e	16	45	48.1						Sea off the mouth of the river Arita. Feeble tremors.
		F	16	47	18-						
648	" 24	e	21	14	34.5						A local shock? Feeble tremors.
		F	21	15	49-						
649	" 25	eP	11	40	48.7					438	ENE. sea off Sioya cape.
		S	11	41	47.7						
		F	11	45	27-						
650	" 27	eP	1	13	11.5					79	Near Hikone.
		S	1	13	22.1						
		F	1	14	26-						
651	" 27	eP?	21	22	50.7						Sea off Urup Is. of the Tisima Is. P: uncertain.
		S	21	23	13.9						
		F	21	24	54-						
652	" 28	iP	11	44	26.0					5616	A distant earthquake. Epicentre unknown.
		L	11	51	41.8						
		M _E	12	04	14.8	24.4	-360				
		M _N	12	08	04.2	16.8		+670			
		M _Z	12	09	09.3	16.8			-180		
		F	13	06	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.	
653	Dec. 28	eP	13	09	27.8					329	Sea off Sioya cape.
		S	13	10	12.0						
		M _N	13	10	58.2	2.6	-23				
		M _E	13	10	55.6	0.9		-9			
		F	13	16	30-						
654	" 28	eP	15	15	48.1					42	Near the city of Hikone.
		S	15	15	53.8						
		F	15	16	44-						
655	" 29	eP	4	31	16.4					1439	S. part of the Okhotsk sea.
		S	4	33	47.3						
		F	4	44	54-						
656	" 30	eP	8	44	53.7					4334	A distant earthquake.
		S?	8	51	00.1						
		F	9	11	23-						
657	" 30	e	12	20	23.3						A local shock? Feeble tremors.
		F	12	22	57-						

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