

SEISMOLOGICAL BULLETIN
OF THE
IMPERIAL MARINE OBSERVATORY
AND
KOBE METEOROLOGICAL OBSERVATORY.
KOBE, JAPAN.

1923

and

1924.

KOBE
June, 1925.

Symbols and Notations.

1. Phases of Seismogram : —

- P (Undae Primae)=1st. Preliminary tremors.
 P_{Rn} = P waves n-times reflected at the earth-surface.
 S (Undae Secundae)=2nd. Preliminary tremors.
 S_{Rn} = S waves n-times reflected at the earth-surface.
 L (Undae Longae)=Long waves at the beginning of the surface phase.
 M (Undae Maximae)=Max. Amplitude in principal phase.
 C (Coda)=Prominent waves among after tremors.
 F (Finis)=End of perceptible movement.

2. Nature of Motion : —

- i = Abrupt commencement, clearly defined.
 e = Gradual commencement, not clearly defined.
 T = Complete period in second.
 A = Amplitude, measured from mediam position in microns.
 A_E = E-W component of A, and takes as positive eastward.
 A_N = N-S component of A, and takes as positive northward.
 A_Z = U-D component of A, and takes as positive upward.
 Δ The epicentral distance is calculated by the Omori's formula, ei,

$$\Delta = 7.42 \times S \quad \text{for} \quad \Delta < 2,000 \text{ km.}$$

$$\Delta = 6.54 \times S + 729 \quad \text{for} \quad 2,000 \text{ km} < \Delta < 14,000 \text{ km.}$$

Where s = The duration of the preliminary tremors in second.

Constants.

1. Position of the Seismographic room.

Latitude = 34° 41' 18" N

Longitude = 135° 10' 51" E

Altitude 58.2 meter above mean sea level.

2. Time.

Time is kept by the standard Riefler clock; Time comparisons are made daily by radiotelegraphic signals from the Tokyo Astronomical observatory, and also made weekly by the meridian circle observations.

3. Constants of seismographs.

		mass	damping	Period	Index magnification.
Omori's seismograph	N-S	18.5kg.	Magnetic	20.0	20.0
Omori's seismograph	E-W	17.5kg.	Magnetic	20.0	20.0
Omori's seismograph	E-W	50.kg.	Magnetic	25.0	42.7
Wiechert seismograph	Horizontal	80.kg.	Air	4.5	80.0
Wiechert seismograph	Vertical	80.kg.	Air	4.5	80.0

of the Imperial Marine Observatory and the Kobe Meteorological Observatory of Japan.

$\varphi=34^{\circ} 41' 18''$ $\lambda=135^{\circ} 10' 51''$ $h=58.3$ m Underground: Diluvial Series.

Instrument: Omori's Seismograph

Wiechert Seismograph

(Horizontal Pendulum.)


(Horizontal & Vertical)

	T_o	ϵ	$\frac{r}{T_o^2}$	V		T_o	ϵ	$\frac{r}{T_o^2}$	V
AN:	20	1.15		20.0	AN:		Aperiodic		80
AE:	20	1.20		20.0	AE:		"		80
AE:	25	2.70		42.7	AZ:		"		80

1923

No.	Date	Phase	Time	Period	Amplitude			Δ	Remarks
					AE	AN	AZ		
			G. M. T.						
			h m s	s	μ	μ	μ	km.	
1	Jan. 11	P	12 25 50					482	The Epicenter Near Mt. Kirishima. A light shock was felt at Miyazaki, Kagoshima & Saga.
		L	12 26 51						
		ME	12 28 10	3.2		25			
		MN	12 28 26	4.6	15				
		CN	12 29 54	3.6	10				
		FE	12 35 ±						
2	Jan. 12	FN	12 34 ±					451	The probable origin in the Bungo channel. A slight shock was felt at Uwajima and Matsuyama.
		P	15 57 52						
		L	15 58 50						
		ME	16 00 59	3.3		25			
		MN	16 01 06	3.1	30				
		FE	16 05 ±						
3	Jan. 14	FN	16 07 ±					406	S-rn part of Uraga channel. A strong shock (weak class) was felt at Tokyo & Yokohama. Cracks were found in a number of house even some reinforced concrete building.
		P	5 52 34						
		S	5 52 57						
		L	5 53 24						
		ME	5 54 23	1.8		150			
		MN	5 54 03	2.1	115				
FE	6 09 ±								
FN	6 06 ±								

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
4	Jan. 26	eP	3	28	15						Local shock. P & S phases are not distinct.
		L	3	28	25						
		ME	3	28	29	1.2		15			
		MN	3	28	29	0.7	20				
		FE	3	29	±						
		FN	3	29	±						
5	Jan. 26	eP	3	30	15						The beginning of motion is not clear.
		L	3	32	00						
		M ₁ E	3	32	07	5.4		40			
		MN	3	32	13	4.2	15				
		M ₂ E	3	32	28	6.6		25			
		FE	3	40	±						
		FN	3	37	±						
6	Jan. 27	P	21	31	28				789	The tail of this earthquake was overlapped by the following one.	
		S	21	32	14						
		L	21	33	11						
7	Jan. 27	P	21	33	18				875	No. 5,6 & 7 occurred probably at the same center near Bonin IIs. Irregular & flat wave form.	
		S	21	34	29						
		L	21	35	13						
		ME	21	35	19	4.8		35			
		MN	21	35	15	3.8	35				
		CN	21	41	46	4.5	25				
		FE	21	53	±						
FN	21	52	±								
8	Jan. 27	eP	5	05	25					Far off of the coast of Iwaki. A weak shock was felt at Isinomaki & Yamagata.	
		eS	5	06	05						
		L	5	06	51						
		M ₁ E	5	07	14	2.8		35			
		M ₁ N	5	07	05	3.0	40				
		M ₂ E	5	08	50	3.9		25			
		M ₂ N	5	08	45	3.9	20				
		FE	5	20	±						



No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
9	Feb. 2	FN	5	17	±						4048 Fore tremor of the North Pacific earthquake.
		P	1	12	22						
		S	1	16	49						
		L	1	20	51						
		M ₁ E	1	21	15	25.9		-85			
		M ₁ N	1	23	16	18.1	±40				
		M ₂ E	1	22	18	29.9		+100			
		M ₂ N	1	26	47	17.6	±30				
		M ₃ E	1	25	43	16.9		+100			
		C ₁ E	1	49	44	15.1		±20			
		C ₂ E	2	16	08	13.9		±25			
		FE	2	49	±						
		FN	2	39	±						
10	Feb. 2	P	5	13	14					3529	Ditto.
		S	5	17	52						
		L	5	20	23						
		M ₁ E	5	23	58	21.4		-6400			
		M ₁ N	5	23	17	23.6	+4250				
		M ₂ E	5	26	41	27.9		-5125			
		M ₂ N	5	27	54	18.5	+1240				
		C ₁ E	5	33	04	17.0		+1030			
		C ₁ N	5	34	18	19.5	+595				
		C ₂ E	5	37	48	18.5		-700			
		C ₂ N	5	37	08	18.9		-335			
		C ₃ E	5	50	01	15.5		+610			
		C ₃ N	5	44	03	18.0		-210			
FE	7	33	±								
FN	7	12	±								
11	Feb. 3	P	5	07	25					53	S-rn part in Naruto Channel.
		L	5	07	31						
		ME	5	07	33	0.7		±35			
		MN	5	07	32		±15				
		FE	5	08	±						



No.	Date	Phase	Time			Period	Amplitude			J	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
12	Feb. 3	FN	5	08	±					2800	Srn far off of the Aleu- tain IIs. Writing lever was scale out. Tunami was Observed At every point on the Pacific coa- st.
		P	16	07	21						
		S	16	09	32						
		L	16	12	39						
		M ₁ E	16	34	28	19.7	+3977				
		M ₂ E	16	45	42	16.8	+3271				
		M ₃ E	16	59	41	16.5	+2259				
		C ₁ E	17	10	16	14.1	+2024				
		C ₂ E	17	19	57	14.2					
C ₃ E	17	30	49	15.5							
13	Feb. 3	P	18	48	33					3575	After shock of the North Pacific earthquake.
		S	18	53	03						
		L	18	55	50						
		M ₁ E	18	58	32	22.7					
		M ₂ E	19	01	29	19.6					
		C ₁ E	19	15	23	17.9					
		C ₂ E	19	53	19	12.4					
FE	20	52	±								
14	Feb. 8	eL	8	09	53					7.3	Trace of the distant earthquake.
		M _N	8	12	50						
		FN	8	30	±						
15	Feb. 11	P	18	27	46					544	Near Nasu, Totigi pro- vince.
		L	18	28	56						
		ME	18	29	16	2.4	±33				
		FE	18	38	±						
16	Feb. 12	eP	2	04	19					3675	After shock of the North Pacific earthquake.
		eL	2	11	51						
		ME	2	15	19	18.4	±15				
		M _N	2	16	19	10.1	±10				
		FE	2	58	±						
		FN	3	01	±						

No.	Date	Phase	Time			Period	Amplitude			J	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
17	Feb. 12	P	12	30	33					374	Srn far off of the Tō- tōmi sea.
		L	12	31	19						
		M ₁ E	12	31	21	1.9		-155			
		M ₁ N	12	31	22	1.4	+70				
		M ₂ E	12	32	59	3.1		+60			
		M ₂ N	12	32	05	4.8	-50				
FE	12	41	±								
18	Feb. 18	eL	23	54	19						Trace of the distant earthquake.
		ME	23	57	12	16.4		-40			
		M _N	0	02	12	13.2	-70				
		FE	2	32	±						
		FN	2	22	±						
19	Feb. 19	P	6	24	20					4163	After shock of the North Pacific earthquake.
		L	6	33	07						
		ME	6	34	17	11.4		±20			
		M _N	6	37	00	21.2	±10				
		FE	7	05	±						
		FN	7	02	±						
20	Feb. 23	P	5	58	57					2852	Ditto.
		S	6	01	28						
		L	6	04	23						
		ME	6	04	28	4.1					
		M _N	6	04	26	4.8					
		FE	6	53	±						
FN	6	48	±								
21	Feb. 24	eP	7	40	32					3500	One of the large after shock of the North Pacific earthquake.
		S	7	43	31						
		L	7	47	37						
		M ₁ E	7	51	21	22.5		-2000			
		M ₁ N	7	50	33	24.5	-3900				
		M ₂ E	7	55	47	19.6		-2225			
M ₂ N	7	54	40	19.3	-4190						

No.	Date	Phase	Time G M. T.	Period s	Amplitude			Δ km.	Remarks
					AE μ	AN μ	AZ μ		
22	Feb. 28	M ₃ E	7 58 07	18.5		-1930		42	Local shock, Near Hi-meji, Hiyogo province.
		M ₃ N	7 57 52	16.1	+1860				
		C ₁ E	8 17 06	16.4		-170			
		C ₁ N	8 22 26	14.7	+435				
		C ₂ E	8 22 07	16.3		-270			
		C ₂ N	8 36 20	14.5	-165				
		FE	9 11 ±						
		FN	9 13 ±						
		(Ps)	18 17 34						
		L	18 17 38						
23	Mar. 2	ME	18 17 39			±15	4248	Ern off Mindanao. Registered all over Japan.	
		MN	18 17 38		±15				
		FE	18 18 ±						
		FN	18 18 ±						
		P	16 55 03						
		S	17 00 02						
		L	17 04 02	18.9		+460			
		M ₁ E	17 06 03	19.4	±2365				
		M ₁ N	17 05 57	19.1		-5850			
		M ₂ E	17 09 03	19.7		-1100			
24	Mar. 3	M ₂ N	17 08 41				703		
		FE	18 23 ±						
		FN	18 34 ±						
		P	10 26 33						
		L	10 28 04						
		ME	10 28 10	6.2		±35			
25	Mar. 4	MN	10 29 10	5.4	±15		383	Near Takahara, Miyazaki province.	
		FE	10 38 ±						
		FN	10 39 ±						
		P	5 38 12						
		L	5 38 59						
		ME	5 40 46	2.8		±10			

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks
					AE μ	AN μ	AZ μ		
26	Mar. 5	MN	5 40 01	3.1	±10			1038	Recorded by Omori's tromometer only.
		FE	5 50 ±						
		FN	5 51 ±						
27	Mar. 12	L	1 41 28				8.4	-35	Ern off the coast of Iwate province.
		ME	1 41 30						
		FE	1 46 ±						
		P	9 44 45						
		L	9 47 02						
28	Mar. 14	ME	9 47 06				14.4	±55	Near Caroline IIs., Registered all over Japan.
		MN	9 47 36						
		FE	10 08 ±						
		FN	10 08 ±						
		ME	21 03 33	14.4		±90			
29	Mar. 16	MN	21 02 49	18.0	±90		16.3	±315	Trace of a distant earthquake. Flat wave form.
		FE	21 50 ±						
		FN	21 50 ±						
		eP	22 07 46						
		S	22 12 22						
30	Mar. 21	L	22 16 54				8.2	±15	1994
		ME	22 20 41						
		FE	23 53 ±						
		FN	23 49 ±						
		P	8 32 35						
31	Mar. 22	L	8 35 50				8.2	±15	Near Yetorop, Kurile IIs.
		FE	8 42 ±						
		FN	8 41 ±						
		P	7 50 45						
		FE	8 06 ±						
31	Mar. 22	FN	8 07 ±						Near Kamtchatka.


No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
32	Mar. 24	P	12	46	14					4218	Near the frontier between Tibet and Sechnen, China. Near the epicenter, severe damage was happened, Killed 500men and mor, and about 3000 men were injured.
		S	12	51	08						
		L	12	55	08						
		M ₁ E	12	57	09	18.6		+3965			
		M ₁ N	12	56	49	22.0	+4885				
		M ₂ E	12	59	02	17.0		+2240			
		M ₂ N	12	59	22	19.8	+2395				
		C ₁ E	13	13	33	14.2		+215			
		C ₁ N	13	11	43	12.7	-95				
		C ₂ E	13	16	43	19.4		-145			
FE	14	06	±								
FN	14	06	±								
33	Mar. 28	L	3	46	51						Trace of a distant earthquake.
		FE	3	57	±						
		FN	3	57	±						
34	Mar. 28	L	4	43	01						Ditto.
		FE	4	59	±						
		FN	4	59	±						
35	Apr. 7	P	13	37	28					241	Ern part of Shimane province.
		L	13	37	56						
		ME	13	38	00	1.0		±30			
		FE	13	42	43						
		FN	13	42	49						
36	Apr. 8	P	11	35	50						Local shock.
		FE	11	36	32						
		FN	11	36	33						
37	Apr. 13	L	15	44	06						Srn off Aleutian IIs. A svere tunami attacked upon the coast of Kamtchatka.
		ME	15	46	35	19.5		±550			
		MN	15	46	35	21.4	±275				
		FE	16	59	±						
		FN	19	50	±						

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
38	Apr. 19	L	3	24	24						P and S phases were not distinct. Near Mari- anne IIs.
		ME	3	24	38	21.8		±40			
		MN	3	35	36	19.0	±35				
		FE	4	02	±						
		FN	3	58	±						
39	Apr. 19	P	20	15	00						The time relay had been out of order, so we taken here probable values of time.
		L	20	15	00						
		ME	20	15	00						
		MN	20	15	00						
		FE	20	18	00						
		FN	20	18	00						
40	Apr. 23	P	3	19	33						North China. Registered all over Japan.
		S	3	22	04						
		L	3	24	01						
		M ₁ E	3	24	19	15.1		±1115			
		M ₁ N	3	24	10	13.8	±900				
		M ₂ N	3	25	12	10.8	±550				
		C ₁ E	3	42	04	10.8		±55			
		C ₁ N	3	32	50	14.8	±190				
C ₂ N	3	39	05	9.1	±45						
FE	4	06	±								
FN	4	05	±								
41	May. 6	P	11	26	01					415	In Sagami sea.
		L	11	27	05						
		M ₁ E	11	27	09						
		M ₁ N	11	27	32	1.4	±25				
		M ₂ E	11	28	13	2.5		±30			
FE	11	34	±	1.9	±20						
FN	11	35	±								
42	May. 7	P	3	03	52					959	Faint record. Fore shock of No. 43.
		L	3	05	58						
		ME	3	06	20			±15			

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks
					AE μ	AN μ	AZ μ		
43	May. 7	FE	3 14 ±				081	Sea coast of Iwaki, at epicentral region moderate shock was felt.	
		FN	3 13 ±						
		P	13 12 15						
		L	13 13 43						
		ME	13 13 57	1.8	±35				
		MN	13 13 50	2.6		±35			
44	May. 9	FE	13 24 ±				44	Local shock.	
		FN	13 23 ±						
		eP	14 43 23						
		L	14 43 28						
		ME	14 43 28	0.4	±5				
		MN	14 43 30			±8			
45	May. 13	FE	14 44 27				234	In Bingo sea.	
		FN	14 44 15						
		P	5 12 00						
		L	5 12 27						
		ME	5 12 29		±10				
		MN	5 12 27			±15			
46	May. 23	FE	5 17 ±				4362	Flat wave form. Off Aleutian IIs.	
		FN	5 16 ±						
		P	22 42 30						
		L	22 51 47						
		M ₁ E	22 55 04	17.6	±300				
		M ₂ N	23 00 01	14.5		±340			
47	May. 26	FE	1 09 ±				623	In Kashima sea.	
		FN							
		P	3 14 43						
		L	3 16 10						
		ME	3 17 17	14.8	±285				
		MN	3 17 01	10.9		±215			

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks
					AE μ	AN μ	AZ μ		
48	May. 26	ME	4 08 54					An after shock of No. 47.	
		MN	4 07 40						
		FE	4 12 ±						
		FN	4 12 ±						
49	May. 26	ME	5 32 16					Ditto.	
		MN	5 32 16						
		FE	5 40 ±						
		FN	5 39 ±						
50	May. 28	eL	1 57 56					Trace of a distant earthquake.	
		FE	2 29 ±						
		FN	2 21 ±						
51	May. 28	P	10 19 38				82	Local shock.	
		L	10 19 44						
		ME	10 19 48						
		MN	10 19 51	0.5		±8			
		FE	10 20 27						
		FN	10 20 43						
52	May. 29	FZ	10 20 16					Local shock.	
		eP	16 51 01						
		L	16 51 07						
		ME	16 51 26		±30				
		MN	16 51 22						
		MZ	16 51 15						
53	May. 30	FE	16 52 11					Faint record.	
		FN	16 52 02						
		FZ	16 51 40						
		eE	18 25 20						
		eN	18 24 47						
		FE	18 34 ±						
FN	18 33 ±								

No	Date	Phase	Time			Period	Amplitude			J	Remarks
			G.	M.	T.		AE	AN	AZ		
54	May, 31	P	h	m	s	s	μ	μ	μ	km. 666	From Wiechert seismograph. In Kasima sea.
		S	5	56	34						
		L	5	57	22						
		MN	5	58	17		1.4	-69			
		CN	5	58	41						
		FN	6	09	00						
55	May, 31	P	6	11	24	1.4	+25	701	From Wiechert seismograph. Local shock.		
		S	6	12	26						
		L	6	12	55						
		MN	6	13	00						
		CN	6	13	36						
		FN	6	19	00						
56	June. 1	P	17	26	03	3.4	-1676	625	In Kasima sea. Near the epicenter strong or moderate shock was felt.		
		S	17	26	22						
		L	17	27	32						
		M ₁ E	17	27	46						
		M ₂ E	17	28	17					3.4	-1650
		M ₃ E	17	28	49					3.8	-1676
		C ₁ E	17	31	05					2.4	+624
		C ₂ E	17	32	44					2.9	-424
		C ₃ E	17	32	03					2.9	-376
		FE	18	11	±						
57	June. 1	P	20	17	06	4.0	-1576	614	One of the after shock of No. 56.		
		S	20	17	25						
		L	20	18	25						
		M ₁ E	20	18	44						
		M ₁ N	20	18	47					1.9	+1450
		M ₂ E	20	19	06					2.9	-1020
		M ₂ N	20	19	04					2.9	+1376
		M ₃ E	20	19	32					4.8	-938
		M ₃ N	20	19	30					2.4	+1176
		C ₁ E	20	22	32					1.4	+324
		C ₁ N	20	22	42					1.9	+476




No.	Date	Phase	Time			Period	Amplitude			J	Remarks
			G.	M.	T.		AE	AN	AZ		
58	June. 2	C ₂ E	h	m	s	s	μ	μ	μ	km. 666	From Wiechert seismograph. An after shock of No. 56.
		FE	20	24	23		2.4	-400			
		FN	21	02	±						
59	June. 2	L	0	32	17	1.4	+25	701	From Wiechert seismograph. Local shock.		
		FE	0	41	±						
		FN	0	40	±						
60	June. 2	P	3	13	54	2.4	±15	497	Near Kasumigaura.		
		PRI	3	14	03						
		L	3	15	03						
		ME	3	15	31					±30	
		MN	3	15	28					±35	
		FE	3	25	±						
61	June. 3	P	21	59	40	2.4	±15	303	Faint record.		
		PRI	22	00	00						
		L	22	00	43						
		ME	22	02	22						
		FE	22	08	±						
		FN	22	07	±						
62	June. 4	ME	0	16	57	2.5	±3	253	From Wiechert seismograph. Faint record.		
		MN	0	16	57					2.5	±6
		FE	0	19	±						
		FN	0	19	±						
63	June. 4	eP	4	42	14	2.5	±6	253	From Wiechert seismograph. Faint record.		
		L	4	42	44						



No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks	
			G.	M.	T.		AE	AN	AZ			
			h	m	s	s	μ	μ	μ	km.		
64	June. 4	ME	4	43	00	3.4	±6			600	In Kasima sea. From Omori's seismograph.	
		MN	4	42	58			±9				
		FE	4	48	±							
		FN	4	49	±							
		eP	18	53	45	3.7	±7					
		L	18	53	03							
65	June. 4	M ₁ E	18	55	30	3.2	±9			610	From Omori's seismograph. Faint record.	
		M ₁ N	18	55	37							
		M ₂ E	18	56	26							
		ME	19	04	03							
		FE	19	07	±							
		FN	19	07	±							
66	June. 5	eP	2	08	31	±35				610	In Kasima sea.	
		L	2	09	49							
		MN	2	09	04							
		FE	2	23	±							
		FN	2	22	±							
67	June. 6	P	17	37	50	1050				1050	Trace of a distant earthquake.	
		S	17	30	09							
		L	17	40	09							
		M ₁ E	17	40	43		12.0	+220				
		M ₁ N	17	40	50		14.4		+490			
		M ₁ E	17	41	43		12.0	-210				
		M ₂ N	17	41	09		15.0		-810			
		C ₁ E	17	43	14		10.8	-250				
		C ₁ N	17	43	00		10.8		+250			
		C ₂ N	17	44	24		11.0		+310			
		FE	17	59	±							
		FN	18	12	±							
68	June. 7	P	7	39	24	166				166	Upper course of Yoshino river in Shikoku.	
		L	7	39	41							
		ME	7	39	44							

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
69	June. 10	MN	7	39	42	3.5				133	Faint record.
		FE	7	40	33						
		FN	7	40	37						
		(PS)	7	18	29						
		L	7	18	36						
		FE	7	16	37						
70	June. 11	FN	7	16	39	2.0				395	Off Tadotu.
		P	6	32	27						
		L	6	32	40						
		ME	6	32	42		±24				
		MN	6	32	41			±21			
		CE	6	34	42						
71	June. 12	CN	6	34	35	2.5				351	N. part of Hiroshima province.
		FE	6	36	±						
		FN	6	36	±						
		P	16	51	16						
		L	16	52	05						
		M ₁ E	16	52	08		±25				
72	June. 16	M ₁ N	16	52	23	3.8				351	Near Wakayama. The end was overlapped by the following earthquake.
		M ₂ E	16	52	14		±26				
		FE	16	57	±						
		FN	16	57	±						
		e(PS)	13	08	01						
		L	13	08	44						
73	June. 18	M ₁ E	13	09	25	3.1	±10			932	Near Wakayama. The end was overlapped by the following earthquake.
		M ₁ N	13	10	04			±5			
		M ₂ E	13	09	54		±15				
		FE	13	18	±						
		FN	13	17	±						
		P	5	50	06						
L	5	50	13								

No.	Date	Phase	Time		Period	Amplitude			Δ	Remarks
			G.	M. T.		AE	AN	AZ		
			h	m s	s	μ	μ	μ	km.	
74	June. 18	ME	5	50 14	0.5	±5			400	Near Tyosi.
		MN	5	50 13						
		P	5	50 59						
		L	5	51 49						
		ME	5	52 15	2.4	±35				
		MN	5	52 26	2.3					
		FE	5	58 ±						
75	June. 18	FN	5	57 ±					616	In Kasima sea.
		eP	8	27 12						
		L	8	28 30						
		M ₁ E	8	28 30	4.0	±20				
		M ₁ N	8	29 58	3.4		±15			
		M ₂ E	8	37 24	10.8	±50				
		FE	8	47 ±						
76	June. 18	FN	8	46 ±					616	In Kasima sea.
		P	11	29 36						
		L	11	30 55						
		ME	11	31 22	0.4	±10				
		MN	11	31 20	0.2		±24			
		FE	11	39 ±						
		FN	11	41 ±						
77	June. 19	P	7	02 55				319	Faint record.	
		L	7	03 33						
		ME	7	04 41						
		MN	7	05 34						
		FE	7	13 ±						
		FN	7	13 ±						
78	June. 22	P	7	56 44				3365.	Near Tibet, China.	
		S	7	00 44						
		L	7	03 28						
		M ₁ E	7	04 32	15.6	+2250				




No.	Date	Phase	Time		Period	Amplitude			Δ	Remarks
			G.	M. T.		AE	AN	AZ		
			h	m s	s	μ	μ	μ	km.	
79	June. 28	M ₂ E	7	04 48	16.8	+2300			104	Near Wakayama.
		M ₃ E	7	06 05	16.8	+2800				
		C ₁ E	7	08 36	13.2	-800				
		C ₂ E	7	10 13	14.4	+1100				
		C ₃ E	7	12 31	15.6	+1000				
		FE	7	38 25						
80	June. 29	P	19	13 50				736	Central part of Japan sea.	
		L	19	14 00						
		ME	19	14 01		+80				
		MN	19	14 01			+84			
		CE	19	14 22						
		FE	19	16 27						
81	June. 29	eP	10	49 40				736	Ditto.	
		L	10	51 16						
		ME	10	51 18	1.9	±52				
		MN	10	51 17	1.9		±98			
		CE	10	51 22						
		FE	10	55 16						
82	July. 2	eP	10	55 22				3859	E. off Daito, in Formosa.	
		L	10	56 58						
		ME	10	57 04	2.4	±78				
		MN	10	57 04	2.4		±192			
		CE	10	57 08						
		FE	11	02 05						
82	July. 2	P	2	35 43				3859	E. off Daito, in Formosa.	
		S	2	39 13						
		L	2	41 41						
		M ₁ E	2	42 39	14.4	+60				
		M ₁ N	2	42 55	10.8		+40			
		M ₂ E	2	44 43	13.2	+60				
		M ₂ N	2	46 53	10.8		-60			
M ₃ E	2	45 58	12.0	+90						



No	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
83	July. 2	CE	2	46	26					124	In Kii Strait.
		FE	2	57	38						
		eP	19	37	19						
		L	19	37	30						
		ME	19	37	31		+76				
		MN	19	37	31			+88			
		CE	19	37	52						
84	July. 5	FE	19	39	41					160	Near Gifu city.
		P	18	28	41						
		L	18	28	58						
		ME	18	28	59						
		MN	18	29	02	0.5		± 10			
		FE	18	29	23						
		FN	18	29	35						
85	July. 13	P	11	14	52					713	Near Tanegasima Isl. In the epicentral region a strong shock was felt.
		S	11	16	05						
		L	11	16	25						
		M ₁ E	11	16	42	5.4	-1378				
		M ₁ N	11	16	43	2.9		+1274			
		M ₂ E	11	17	24	5.8	+824				
		M ₂ N	11	17	42	2.9		+978			
		M ₃ E	11	18	00	4.9	-1250				
		M ₃ N	11	17	42	2.9		+676			
		C ₁ E	11	21	33	5.4	-276				
		C ₁ N	11	21	34	3.4		-174			
		C ₂ E	11	22	17	3.9	+226				
		C ₂ N	11	21	56	3.4		-162			
		FE	11	56	\pm						
FN	11	56	\pm								
86	July. 13	P	23	57	39					761	An after shock of the Tanegashima earthquake.
		S	23	58	44						
		L	23	59	19						


No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
87	July. 14	M ₁ E	23	59	31	4.0	± 250			94	Local shock. Upper course of the Arita river in Wakayama province.
		M ₁ N	23	59	32	3.5		± 250			
		M ₂ E	0	00	52	3.5	± 290				
		M ₂ N	0	00	39	3.0		± 274			
		M ₃ E	0	01	38	3.5	± 225				
		M ₃ N	0	01	59	3.0		± 169			
		FE	0	14	\pm						
		FN	0	14	\pm						
		P	1	50	15						
		L	1	50	22						
88	July. 20	MN	1	50	28	2.4	± 15			410	S-W. off Hatijo Isl.
		FE	1	51	04						
		FN	1	51	04						
		P	16	50	45						
		S	16	50	59						
89	July. 21	L	16	51	36					3722	In North Pacific Ocean. Near Kamtchatka.
		M ₁ E	16	51	38	3.3	± 150				
		M ₁ N	16	52	28	5.0		± 90			
		M ₂ E	16	53	16	4.2	± 90				
		FE	17	06	\pm						
		FN	17	03	\pm						
		ME	8	33	57						
90	July. 22	MN	8	33	29					Faint record.	
		FE	8	41	\pm						
		FN	8	39	\pm						
		P	14	24	47						
89	July. 21	S	14	29	43					Faint record.	
		L	14	32	26						
		M ₁ E	14	35	35	10.3	± 40				
		M ₁ N	14	33	29	14.3		± 80			
		M ₂ E	14	39	19	12.9	± 55				
		M ₂ N	14	36	18	12.7		± 40			

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
91	July. 26	FE	15	05	±					1944	Trace of a distant earthquake.
		FN	14	04	±						
		P	3	13	14						
		L	3	16	32						
		ME	3	19	23	6.5	±20				
		MN	3	18	00	8.4		±25			
		FE	3	32	±						
FN	3	34	±								
92	July. 26	P	23	39	16					784	Near Isigaki Isl.
		L	23	40	59						
		ME	23	41	00	3.0	±9				
		MN	23	41	05	4.0		±6			
		FE	23	50	±						
		FN	23	50	±						
93	July. 30	P	7	32	26					122	Near Wakayama.
		L	7	32	37						
		ME	7	32	39						
		MN	7	32	45			±20			
		FE	7	36	50						
		FN	7	35	22						
94	Aug. 1	ME	20	20	09	1.5	±5				From Wiechert. Faint record.
		MN	20	20	11	1.8		±6			
		FE	20	21	±						
		FN	20	21	±						
		eP	5	47	15						
95	Aug. 2	eL	5	47	21					87	Local shock. At Sumoto a slight shock was felt.
		ME	5	47	23		±9				
		MN	5	47	25			±9			
		FE	5	48	±						
		FN	5	48	±						




No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
96	Aug. 2	P	22	04	54					93	In Kii channel.
		L	22	05	02						
		ME	22	05	06		±14				
		MN	22	05	06			±15			
		FE	22	05	52						
		FN	22	05	53						
97	Aug. 8	P	2	58	00					99	In Kii channel. From Omori's Seismograph.
		L	2	58	09						
		ME	2	58	09		±55				
		MN	2	58	11			±100			
		FE	2	59	51						
		FN	2	59	59						
98	Aug. 10	eP	2	15	56					109	S. part in Kii channel.
		eL	2	16	06						
		ME	2	16	07		±125				
		MN	2	16	08			±138			
		FE	2	18	01						
		FN	2	17	35						
99	Aug. 12	P	6	04	41					4430	The trace of a distant earthquake.
		S	6	12	54						
		L	6	14	08						
		ME	6	14	37	9.3	±170				
		MN	6	14	18	9.6		±120			
		FE	6	39	±						
FN	6	25	±								
100	Aug. 12	P	10	08	40						From Wiechert Seismo- graph.
		L	10	13	17						
		ME	10	13	53						
		MN	10	14	08						
		FE	10	32	±						
		FN	10	31	±						

No.	Date	Phase	Time	Period	Amplitude			Δ	Remarks
					AE	AN	AZ		
			G. M. T.	s	μ	μ	μ	km.	
101	Aug. 16	ME	19 44 20		± 6			Local shock. In Kii channel.	
		MN	19 44 23			± 6			
		FE	19 44 54						
102	Aug. 16	eP	20 26 29					Ditto. Faint record.	
		eL	20 29 38						
		FE	20 43 \pm						
		FN	20 46 \pm						
103	Aug. 17	P	3 50 26					Ditto. Faint record.	
		eL	3 53 50						
		FE	4 05 \pm						
		FN	4 01 \pm						
104	Aug. 19	P	21 24 29				438	Off Tyoshi.	
		L	21 25 24						
		ME	21 25 44		± 8				
		MN	21 25 38	1.7		± 13			
		FE	21 30 \pm						
		FN	21 31 \pm						
105	Aug. 24	eP	1 16 30				713	Off of the coast of Iwaki.	
		L	1 18 03						
		M ₁ E	1 18 16	2.6	± 35				
		M ₁ N	1 18 12	2.4		± 28			
		M ₂ N	1 18 27	2.9		± 33			
		CE	1 20 24	3.1	± 7				
		CN	1 20 12	4.0		± 10			
		FE	1 30 \pm						
		FN	1 29 \pm						
106	Aug. 25	P	7 54 10				153	Local shock. At Sumoto a weak shock was felt.	
		L	7 54 18						
		M ₁ E	7 54 25		± 111				
		M ₁ N	7 54 20	0.6		± 105			
		M ₂ N	7 54 25	0.6		± 75			




No.	Date	Phase	Time	Period	Amplitude			Δ	Remarks
					AE	AN	AZ		
			G. M. T.	s	μ	μ	μ	km.	
		CE	7 55 33	2.1	± 14				
		CN	7 55 25	2.1		± 19			
		FE	8 04 \pm						
		FN	8 02 \pm						
107	Aug. 29	eP	18 09 09						At Sumoto a slight shock was felt.
		L	18 09 15						
		ME	18 09 15		± 13				
		MN	18 09 16			± 13			
		FE	18 12 \pm						
108	Sept. 1	P	2 59 27						
		FN	18 12 \pm						
109	Sept. 1	P	3 25 02				371		The great Sagami sea earthquake. The detailed information was given on the memoirs of this observatory Vol I. No. 4
		L	3 25 48						
		ME	3 26 08		± 630				
		MN	3 26 05			± 650			
110	Sept. 1	P	3 35 02				372		
		L	3 35 51						
		ME	3 36 27	1.5	± 116				
		MN	3 36 13	2.0		± 113			
111	Sept. 1	P	3 41 22				378		After shock of the great Sagami sea earthquake.
		L	3 42 09						
		ME	3 42 06	2.2	± 1275				
		MN	3 42 57	1.8		± 790			
112	Sept. 1	P	3 49 06				425		Ditto.
		L	3 50 00						
		M ₁ E	3 50 33	3.6	± 1338				
		M ₁ N	3 50 38			± 10.9			
		M ₂ E	3 52 17	3.6	± 1300				
		M ₂ N	3 52 13	3.1		± 696			

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
113	Sept. 1	P	4	11	56					415	Ditto.
		L	4	12	48						
		ME	4	13	12	2.5	± 63				
		MN	4	13	11	2.7		± 63			
114	Sept. 1	P	4	14	27					383	Ditto.
		L	4	15	15						
		ME	4	15	31	3.0	± 163				
		MN	4	15	34	2.6		± 200			
115	Sept. 1	P	4	21	20					376	Ditto.
		L	4	22	06						
		M ₁ E	4	22	15	2.1	± 341				
		M ₁ N	4	22	14	2.1	± 275				
		M ₂ E	4	23	15	2.4	± 263				
		M ₂ N	4	23	33	1.7		± 181			
116	Sept. 1	ME	4	30	19	1.3	± 73				Ditto.
		MN	4	30	20	1.8		± 30			
117	Sept. 1	P	4	31	59					380	Ditto.
		L	4	32	46						
		M ₁ E	4	32	49	2.5	± 421				
		M ₁ N	4	33	02	1.6		± 521			
		M ₂ E	4	33	54	3.1	± 379				
118	Sept. 1	P	4	46	14					400	Ditto.
		L	4	47	04						
		ME	4	47	08						
		MN	4	47	08						
119	Sept. 1	ME	5	00	49						Ditto.
		MN	5	00	55						
120	Sept. 1	P	5	13	44						Ditto.




No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
121	Sept. 1	P	5	13	56					393	Ditto.
		L	5	14	45						
		ME	5	14	52		± 15				
		MN	5	14	55			± 13			
		FE	5	21	\pm						
		FN	5	21	\pm						
122	Sept. 1	P	5	23	28					401	Ditto. One of the great after shock.
		L	5	24	18						
		M ₁ E	5	24	24	1.6	± 1063				
		M ₁ N	5	24	25	2.6		± 1100			
		M ₂ E	5	27	24	3.3	± 525				
M ₂ N	5	27	35	2.7		± 400					
123	Sept. 1	ME	5	43	23						After shock.
		MN	5	43	26						
		FE	5	46	\pm						
		FN	5	46	\pm						
124	Sept. 1	P	5	54	32					416	Ditto.
		L	5	55	24						
		ME	5	55	27		± 43				
		MN	5	55	27	2.5		± 51			
		FE	6	02	\pm						
		FN	6	02	\pm						
125	Sept. 1	P	6	06	01					375	Ditto.
		L	6	06	47						
		ME	6	06	53	2.5	± 56				
		MN	5	06	55	3.0		± 56			
126	Sept. 1	P	6	14	32					334	Ditto.
		L	6	15	13						
		ME	6	15	19		± 40				
		MN	6	15	20	1.5		± 50			

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
127	Sept. 1	P	6	20	20		±1640	±360		386	Ditto.
		L	6	24	07						
		ME	6	22	05						
		MN	6	21	58						
128	Sept. 1	ME	6	41	03						Ditto.
		MN	6	41	06						
		FE	6	43	±						
		FN	6	43	±						
129	Sept. 1	P	6	44	00	1.5	±58	±80		415	Ditto.
		L	6	45	01						
		ME	6	45	06						
		MN	6	45	06						
		FE	6	52	±						
		FN	6	52	±						
130	Sept. 1	P	6	57	41	1.8	±16	±13		356	Ditto.
		L	6	58	25						
		ME	6	58	33						
		MN	6	58	34						
		FE	7	08	±						
		FN	7	08	±						
131	Sept. 1	ME	7	25	20						Ditto.
		MN	7	25	17						
		FE	7	27	±						
		FN	7	27	±						
132	Sept. 1	P	7	38	53	2.8	± > 1250			376	Ditto.
		L	7	39	40						
		M ₁ E	7	40	05						
		M ₁ N	7	39	56						
		M ₂ N	7	40	22						
133	Sept. 1	ME	8	03	25	2.8		±1250			Ditto.



No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
134	Sept. 1	FE	8	05	±						Ditto.
		FN	8	05	±						
		P	8	12	10						
		L	8	12	56						
135	Sept. 1	ME	8	13	16	1.5	±9	±6			Ditto.
		MN	8	13	03						
		FE	8	17	±						
		FN	8	17	±						
136	Sept. 1	ME	8	34	16	1.5	±13				Ditto.
		MN	8	34	15						
		FE	8	36	±						
		FN	8	36	±						
137	Sept. 1	ME	9	00	49	1.5	±13	±13			Ditto.
		MN	9	00	55						
		FE	9	03	±						
		FN	9	03	±						
138	Sept. 1	ME	9	32	54						Ditto.
		MN	9	33	08						
		FE	9	36	±						
		FN	9	36	±						
139	Sept. 1	ME	12	48	50						Ditto.
		FE	12	50	±						
		FN	12	50	±						
		ME	13	00	04						
140	Sept. 1	MN	13	00	04		±9	±9			Ditto.
		FE	13	03	±						
		FN	13	03	±						
		P	13	53	11						
140	Sept. 1	L	13	54	02					409	Ditto.

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
141	Sept. 1	ME	13	54	11	3.9	±193			398	Ditto.
		MN	13	54	14	3.7		±263			
		FE	14	12	±						
		FN	14	08	±						
		P	14	30	53						
		L	14	31	43						
		ME	14	31	52	1.1	±30				
		MN	14	31	45			±24			
		FE	14	34	±						
		FN	14	34	±						
142	Sept. 1	ME	15	02	26				Ditto.		
		MN	15	02	39						
		FE	15	05	±						
		FN	15	05	±						
143	Sept. 1	ME	15	43	28				Ditto.		
		MN	15	43	30						
		FE	15	47	±						
		FN	15	47	±						
144	Sept. 1	ME	16	14	04	0.3	±16		Ditto.		
		MN	16	14	04						
		FE	16	16	±						
		FN	16	16	±						
145	Sept. 1	ME	16	54	03				Ditto.		
		FE	16	55	±						
		FN	16	55	±						
146	Sept. 1	ME	17	01	30				Ditto.		
		MN	17	01	33						
147	Sept. 1	P	17	03	36				416	Ditto.	
		L	17	04	28						



No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
148	Sept. 1	ME	17	04	44				±34	Ditto.	
		MN	17	04	50						
		FE	17	13	±						
		FN	17	12	±						
149	Sept. 1	ME	17	16	19	2.7			±24	Ditto.	
		MN	17	16	14	2.2					
		FE	17	19	±						
		FN	17	19	±						
150	Sept. 1	ME	18	02	00				±39	Ditto.	
		MN	18	02	00						
		FE	18	05	±						
		FN	18	05	±						
151	Sept. 1	P	19	09	36				±13	Ditto.	
		L	19	10	25						
		ME	19	10	42						
		MN	19	10	53			±35			
152	Sept. 1	ME	19	15	08				±13	Ditto.	
		MN	19	15	10						
		FE	19	19	±						
		FN	19	18	±						
153	Sept. 1	ME	21	10	26				±13	Ditto.	
		MN	21	10	31						
		FE	21	11	±						
		FN	21	11	±						
154	Sept. 1	ME	21	13	49				±13	Ditto.	
		MN	21	13	40						
		FE	21	18	±						
		FN	21	17	±						
154	Sept. 1	P	21	49	52				369	Ditto.	
		L	21	49	52						

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks	
			G.	M.	T.		AE	AN	Az			
			h	m	s	s	μ	μ	μ	km.		
		L	21	50	37							
		ME	21	51	10	2.0	± 29					
		MN	21	51	07	2.5		± 29				
		FE	21	56	\pm							
		FN	21	56	\pm							
155	Sept. 1	ME	22	30	53		± 6				Ditto.	
		FE	22	34	\pm							
156	Sept. 1	ME	22	36	39		± 8				Ditto.	
		MN	22	36	47			± 13				
		FE	22	40	\pm							
		FN	22	41	\pm							
		ME	23	08	16		± 10					Ditto.
157	Sept. 1	MN	23	08	31			± 6				
		FE	23	10	\pm							
		FN	23	10	\pm							
		ME	23	15	51		± 9					Ditto.
158	Sept. 1	MN	23	15	52			± 5				
		FE	23	18	\pm							
		FN	23	18	\pm							
		P	1	00	36							Ditto.
159	Sept. 2	L	1	01	30					432		
		ME	1	01	34	1.9	± 49					
		MN	1	01	37	2.0		± 53				
		ME	1	10	46	8.9	± 4					
		MN	1	10	38	8.6		± 3				
160	Sept. 2	FE	1	24	\pm							
		FN	1	25	\pm							
		P	2	47	44							
		L	2	48	40						452	The greatest after shock of all.

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
		M ₁ E	2	49	18	2.6	$\pm > 1380$				
		M ₁ N	2	49	15			$\pm > 1380$			
		M ₁ E	2	50	17	3.1	$\pm > 1380$				
		M ₂ N	2	50	05	2.6		$\pm > 1380$			
		CE	2	56	36	5.2	± 400				
		CN	2	56	06	5.7			± 319		
		P	4	38	30						370
162	Sept. 2	L	4	39	16						
		ME	4	39	17	2.7	± 11				
		MN	4	39	20	3.4			± 7		
		FE	4	42	\pm						
		FN	4	42	\pm						
		P	4	49	05						414
163	Sept. 2	S	4	49	30						
		L	4	49	57						
		ME	4	50	46	2.8	± 60				
		MN	4	50	41	2.6			± 40		
		FE	4	55	\pm						
		FN	4	55	\pm						
164	Sept. 2	eP	5	06	40						Ditto.
		ME	5	07	22						
		MN	5	07	30						
		FE	5	11	\pm						
		FN	5	11	\pm						
165	Sept. 2	P	5	11	16					458	Ditto.
		L	5	12	14						
		ME	5	12	37	1.5	± 138				
		MN	5	12	30	2.2			± 200		
		FE	5	21	\pm						
		FN	5	21	\pm						
166	Sept. 2	ME	6	04	07						Ditto.

No.	Date	Phase	Time	Period	Amplitude			Δ	Remarks
					AE	AN	AZ		
			G. M. T.		μ	μ	μ	km.	
			h m s	s					
167	Sept. 2	MN	6 04 05					398	Ditto.
		FE	6 06 ±						
		FN	6 06 ±						
		P	6 33 24						
		S	6 33 57						
		L	6 34 14						
		ME	6 34 24			±30			
		MN	6 34 17	2.5	±25				
FE	6 39 ±								
FN	6 39 ±								
168	Sept. 2	P	9 28 00					413	One of the great after shock.
		S	9 28 26						
		L	9 28 51						
		M ₁ E	9 29 31	3.1	±>1375				
		M ₁ N	9 29 32	2.6		±1291			
		M ₂ E	9 30 22	2.8	±>1375				
		M ₂ N	9 30 51	2.8		±1375			
		M ₃ E	9 32 06	3.3	±1261				
M ₃ N	9 31 45	6.1		±1188					
169	Sept. 2	P	9 49 54					474	After shock.
		S	9 50 19						
		L	9 50 54						
		M ₁ E	9 51 24	4.0	±250				
		M ₁ N	9 51 24	3.1		±356			
		M ₂ E	9 52 35	3.1	±300				
		M ₂ N	9 52 29	3.1		±187			
		FE	10 04 ±						
FN	10 04 ±								
170	Sept. 2	ME	10 23 14						Ditto.
		MN	10 23 15						
		FE	10 25 ±						
		FN	10 25 ±						

No.	Date	Phase	Time	Period	Amplitude			Δ	Remarks
					AE	AN	AZ		
			G. M. T.		μ	μ	μ	km.	
			h m s	s					
171	Sept. 2	ME	11 13 10		±13				Ditto.
		MN	11 13 16			±10			
		FE	11 16 ±						
		FN	11 16 ±						
172	Sept. 2	P	11 44 26					363	Ditto.
		L	11 45 11						
		ME	11 45 27		±13				
		MN	11 45 17			±10			
		FE	11 48 ±						
		FN	11 46 ±						
173	Sept. 2	ME	12 56 54		±9				Ditto.
		MN	12 56 56			±11			
		FE	12 58 ±						
		FN	12 58 ±						
174	Sept. 2	P	13 10 00					388	Ditto.
		L	13 19 48						
		ME	13 11 09	4.8	±850				
		MN	13 11 03			±1875			
		FE	13 38 ±						
		FN	13 38 ±						
175	Sept. 2	P	14 17 20					408	Ditto.
		L	14 18 11						
		M ₁ E	14 18 16		±953				
		M ₁ N	14 18 17	1.6		±800			
		M ₂ E	14 19 26	2.5	±275				
		M ₂ N	14 19 25	2.0		±250			
		FE	14 25 ±						
		FN	14 25 ±						
176	Sept. 2	ME	21 04 22						Ditto.
		MN	21 04 25						
		FE	21 07 ±						

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks
					AE μ	AN μ	AZ μ		
177	Sept. 3	FN	21 07 ±				406	Ditto.	
		P	0 20 41						
		L	0 21 32						
		ME	0 21 53	±16					
		MN	0 21 46		±25				
		FE	0 29 ±						
		FN	0 29 ±						
178	Sept. 3	eP	0 42 03			438	Ditto.		
		ME	0 42 44						
		MN	0 42 44						
		FE	0 44 ±						
		FN	0 44 ±						
179	Sept. 3	P	1 48 20			438	Ditto.		
		S	1 48 45						
		L	1 49 15						
		ME	1 49 42	±51					
		MN	1 49 34		±63				
		FE	1 58 ±						
		FN	1 58 ±						
180	Sept. 3	P	6 02 56			423	Ditto.		
		L	6 03 50						
		ME	6 03 52	±20					
		MN	6 03 57		±15				
		FE	6 06 ±						
		FN	6 06 ±						
181	Sept. 3	P	8 14 34			358	Ditto.		
		L	8 15 18						
		M ₁ E	8 15 30	±19					
		M ₁ N	8 15 30		±21				
		M ₂ E	8 15 39						
		M ₂ N	8 15 47						

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks
					AE μ	AN μ	AZ μ		
182	Sept. 3	FE	8 19 ±			398	Ditto.		
		FN	8 19 ±						
		ME	13 30 36						
		MN	13 30 36						
		FE	13 32 49						
183	Sept. 3	P	14 31 19			370	Ditto.		
		L	14 32 09						
		ME	14 32 12	2.2	±119				
		MN	14 32 14	2.5	±125				
		CN	14 34 15	2.5	±36				
		FE	14 39 ±						
		FN	14 39 ±						
184	Sept. 4	P	15 25 45			394	Ditto.		
		L	15 26 30						
		ME	15 26 32		±15				
		MN	15 26 33		±15				
		FE	15 28 ±						
		FN	15 28 ±						
185	Sept. 4	P	22 24 03			405	Ditto.		
		L	22 24 52						
		ME	22 25 21	2.5	±54				
		MN	22 25 11	2.5	±45				
		FE	22 37 ±						
		FN	22 33 ±						
186	Sept. 5	P	11 14 09			405	Ditto.		
		L	11 15 05						
		ME	11 15 14						
		MN	11 15 19						
		FE	11 20 ±						
		FN	11 19 ±						

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
187	Sept 5	P	18	31	02					420	Ditto.
		L	18	31	55						
		M ₁ E	18	32	16	2.0	±139				
		M ₁ N	18	32	13	2.5		±156			
		M ₂ N	18	33	21	3.0		±185			
		FE	18	43	±						
		FN	18	43	±						
188	Sept. 5	ME	18	48	54		±6				Ditto.
		MN	18	48	51			±8			
		FE	18	53	±						
		FN	18	51	±						
189	Sept. 5	ME	20	01	45						Ditto.
		MN	20	01	47						
		FE	20	03	±						
		FN	20	03	±						
190	Sept. 6	ME	11	16	20						Ditto.
		MN	11	16	13						
		FE	11	18	±						
		FN	11	18	±						
191	Sept. 7	P	14	31	07				407	Ditto.	
		L	14	31	58						
		ME	14	32	02	2.0	±49				
		MN	14	32	02	2.0		±38			
		FE	14	37	±						
		FN	14	36	±						
192	Sept. 7	P	15	18	16				484	Ditto.	
		eL	15	19	18						
		M ₁ E	15	19	35	2.6	±76				
		M ₁ N	15	19	36	1.5		±88			
		M ₂ E	15	20	45	2.6	±69				
		M ₂ N	15	20	40	2.0		±31			

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
103	Sept. 7	FE	15	28	±					405	Ditto.
		FN	15	27	±						
		P	16	33	43						
		L	16	34	33						
		ME	16	35	00	2.0					
		MN	16	34	37	2.0					
		FE	16	45	±						
194	Sept. 7	FE	16	45	±					405	Ditto.
		P	23	40	52						
		L	23	41	42						
		ME	23	42	43		±11				
		MN	23	41	54			±5			
		FE	23	46	±						
		FN	23	46	±						
195	Sept. 8	ME	4	09	02		±13				Ditto.
		MN	4	09	08			±6			
		FE	4	12	±						
		FN	4	12	±						
196	Sept. 8	P	9	09	32				380	Ditto.	
		L	9	10	19						
		M ₁ E	9	10	22	1.8	±440				
		M ₁ N	9	10	24	2.4		±465			
		M ₂ N	9	10	36	2.4		±519			
197	Sept. 8	P	11	46	52				323	Ditto.	
		L	11	47	31						
		ME	11	47	40		±10				
		MN	11	47	34			±10			
		FE	11	51	±						
		FN	11	51	±						
198	Sept. 8	ME	12	27	37						Ditto.

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
199	Sept. 8	MN	12	27	35						Ditto.
		FE	12	31	±						
		FN	12	33	±						
		ME	19	15	17						
		MN	19	14	22						
		FE	19	20	±						
200	Sept. 9	FN	19	18	±						Ditto.
		ME	3	05	19		±8				
		MN	3	05	22			±8			
		FE	3	08	±						
201	Sept. 9	FN	3	08	±						Ditto.
		ME	6	53	52						
		MN	6	54	03						
		FE	6	57	±						
202	Sept. 9	FN	6	57	±						Ditto.
		L	17	08	54						
		ME	17	09	02						
		MN	17	08	55						
203	Sept. 9	FE	17	10	±						Ditto.
		FN	17	10	±						
		P	17	11	35						
		L	27	12	24						
204	Sept. 9	ME	17	12	40		±50				Local shock.
		MN	17	12	45			±45			
		ME	17	18	47		±6				
		MN	17	18	48			±6			
205	Sept. 9	FE	17	20	±						Local shock.
		FN	17	20	±						
		P	17	42	37						
		L	17	43	31						
205	Sept. 11	eP	5	11	21						After shock of the great
		ME	17	43	33						

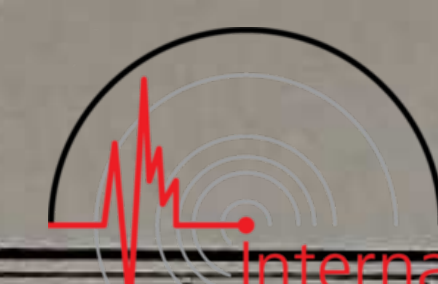
No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
206	Sept. 11	eL	5	12	04						Sagami sea earthquake.
		ME	5	12	12						
		MN	5	12	07						
		FE	5	15	±						
		FN	5	15	±						
		eP	6	22	59						
207	Sept. 11	ME	6	25	34		+20				Ditto.
		MN	6	24	41			+30			
		FE	6	30	±						
		FN	6	30	±						
208	Sept. 12	P	8	51	41						Ditto.
		L	8	52	26						
		ME	8	52	32		+50				
		MN	8	52	32			+62			
		FE	8	56	±						
		FN	8	56	±						
209	Sept. 12	P	14	56	37						Ditto.
		L	14	57	32						
		ME	14	57	32		+42				
		MN	14	57	34			+50			
		FE	15	00	±						
		FN	15	00	±						
210	Sept. 14	P	6	34	48						Ditto.
		L	6	35	33						
		ME	6	35	38		+20				
		MN	6	35	38			+22			
		FE	6	39	±						
		FN	6	39	±						
210	Sept. 14	P	17	42	37						Ditto.
		L	17	43	31						
		ME	17	43	33		-80				

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
211	Sept. 16	MN	17	43	38			+88		Ditto.	
		FE	17	55	±						
		FN	17	55	±						
212	Sept. 16	L	8	20	03				Ditto.		
		FE	8	32	±						
213	Sept. 17	P	1	03	02				362	Ditto.	
		L	1	03	47						
		ME	1	04	05		+32				
214	Sept. 17	MN	1	04	05			+46	380	Ditto.	
		FE	1	09	±						
		FN	1	09	±						
		P	3	41	06						
		L	3	41	53						
215	Sept. 17	ME	3	42	22		-72		380	Ditto.	
		MN	3	42	37						
		CE	3	44	12						
		CN	3	43	43						
		FE	3	57	±						
		FN	3	53	±						
216	Sept. 19	L	8	40	47				Ditto.		
		FE	8	48	±						
217	Sept. 19	FN	8	48	±				Ditto.		
		L	15	02	17						
		FE	15	03	±						

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
218	Sept. 20	FN	15	03	±				352	Ditto.	
		P	23	40	32						
		L	23	41	15						
		MN	23	41	21			+18			
		FE	23	44	±						
219	Sept. 21	FN	23	44	±				352	Ditto.	
		L	19	57	52						
		FE	19	59	±						
220	Sept. 22	FN	19	59	±				297	Ditto.	
		P	2	53	57						
		L	2	54	33						
		ME	2	54	39		+68				
		MN	2	54	39			+32			
221	Sept. 24	FE	2	58	±				202	Not an after shock.	
		FN	2	58	±						
		P	11	27	16						
		L	11	27	39						
		ME	11	27	43		+30				
		MN	11	27	43			-30			
		FE	11	29	34						
222	Sept. 26	FN	11	29	34				360	After shock of the great Sagami sea earthquake.	
		P	8	24	39						
		L	8	25	24						
		M ₁ E	8	25	44		-1176				
		M ₁ N	8	25	46			+1240			
		M ₂ E	8	26	48		-1700				
		M ₂ N	8	26	46			+1150			
		M ₃ E	8	27	40		-1400				
		M ₃ N	8	27	50			+1726			
		CE	8	32	21		-450				
CN	8	32	54			-476					

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks
					A _E μ	A _N μ	A _Z μ		
223	Sept. 28	FE	8 50 ±					33	A slight shock was felt. N. part of the Osaka Bay.
		FN	8 50 ±						
		P	20 56 28						
		L	20 56 32						
		ME	20 56 32	+3750					
		MN	20 56 32		+2000				
		FE	21 01 34						
FN	21 01 34								
224	Sept. 29	P	3 01 30					380	After shock of the Sa- gami sea earthquake.
		L	3 02 17						
		ME	3 02 20	+88					
		MN	3 02 20		+176				
		FE	3 06 ±						
		FN	3 06 ±						
225	Oct. 2	P	1 26 13					387	An after shock of the great Sagami sea earth- quake.
		L	1 27 01						
		ME	1 27 11	+30					
		MN	1 27 09		-22				
		FE	1 29 ±						
		FN	1 29 ±						
226	Oct. 3	ME	11 01 18						Local shock.
		MN	11 01 18						
		FE	11 02 ±						
		FN	11 02 ±						
227	Oct. 3	P	14 09 15					370	The same No. 225.
		L	14 10 00						
		ME	14 10 04						
		MN	14 10 05						
		FE	14 13 ±						
		FN	14 13 ±						

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks
					A _E μ	A _N μ	A _Z μ		
228	Oct. 3	ME	14 23 20						Ditto.
		MN	14 23 20						
		FE	14 25 ±						
		FN	14 25 ±						
229	Oct. 3	P	15 55 06					387	Ditto. At the epicentral region a strong shock was felt.
		L	15 55 54						
		M ₁ E	15 56 06	-1524					
		M ₁ N	15 56 13		+2024				
		M ₂ E	15 57 04	-1500					
		M ₂ N	15 57 45		+1024				
		C ₁ E	15 58 54	+376					
		C ₁ N	15 58 37		+326				
		C ₂ E	15 59 20	-326					
		C ₂ N	15 59 11		+276				
		FE	16 03 ±						
FN	16 08 ±								
230	Oct. 6	P	11 06 25					404	Ditto.
		L	11 07 16						
		M ₁ E	11 07 25	-362					
		M ₁ N	11 07 28		+476				
		M ₂ E	11 08 30	-378					
		M ₂ N	11 08 37		-138				
		C _E	11 09 35						
		C _N	11 09 40						
		FE	11 15 ±						
FN	11 15 ±								
231	Oct. 7	P	3 36 46					2950	The trace of a distant earthquake.
		S	3 39 05						
		L	3 42 27						
		ME	3 46 51	16.8	+50				
		MN	3 47 58	19.2		+38			
		FE	4 39 ±						
		FN	4 39 ±						



No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
232	Oct. 9	P	11	24	21					823	Off Miyako, Iwate province.
		S	11	25	33						
		L	11	26	09						
		ME	11	26	50	2.9	+8				
		MN	11	26	21	2.9		+8			
		FE	11	32	±						
		FN	11	32	±						
233	Oct. 12	P	18	10	39					356	The same as No. 225.
		S	18	10	10						
		L	18	11	23						
		ME	18	11	29		±18				
		MN	18	11	24			±19			
		FE	18	14	±						
		FN	18	14	±						
234	Oct. 13	eP	16	41	51						Faint record. From Omori's Seis.
		eL	16	42	50						
		ME	16	42	52						
		FE	16	49	±						
235	Oct. 14	P	4	13	08					90	N part of the Kii Channel,
		L	4	13	16						
		ME	4	13	21		±29				
		MN	4	13	18			±43			
		FE	4	20	±						
		FN	4	20	±						
236	Oct. 14	P	14	05	41					31	N part of the Osaka Bay.
		L	14	05	44						
		ME	14	05	44		±120				
		MN	14	05	44			±133			
		FE	14	06	30						
		FN	14	06	30						
237	Oct. 16	L	16	45	44						Local shock.

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
238	Oct. 16	ME	16	45	46		±5			446	The same as No. 225.
		MN	16	45	46			±5			
		FE	16	46	22						
		FN	16	46	22						
		P	18	04	53						
		PR1	18	05	02						
		L	18	05	46						
239	Oct. 16	ME	18	05	56	1.7	±114			133	In the Kii channel.
		MN	18	05	50	2.9		±144			
		FE	18	13	±						
		FN	18	12	±						
		P	20	25	42						
		L	20	25	55						
240	Oct. 17	ME	20	25	56	1.7	±5			114	In the Kii channel.
		MN	20	26	01			±3			
		FE	20	26	32						
		FN	20	26	22						
		ME	8	31	25						
		MN	8	31	33						
241	Oct. 22	FE	8	34	±					114	In the Kii channel.
		FN	8	36	±						
		P	16	24	58						
		L	16	25	08						
242	Oct. 22	ME	16	25	11		±16			114	In the Kii channel.
		MN	16	25	11			±16			
		eP	16	25	22						
		L	16	25	27						
		ME	16	25	30		±19				
		MN	16	25	28			±15			
242	Oct. 22	FE	16	26	02					114	Ditto.
		FN	16	26	09						



No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks
					AE μ	AN μ	AZ μ		
243	Oct. 22	P	19 46 37	1.9 24	± 43			373	The same as No. 225.
		S	19 47 10						
		L	19 47 24						
		ME	19 47 27						
		MN	19 47 27						
		FE	19 52 \pm						
		FN	19 52 \pm						
244	Oct. 23	P	16 01 14		$+70$			25	Local shock.
		L	16 01 16						
		FE	16 01 33						
		FN	16 01 42						
245	Oct. 23	P	16 03 31					24	Ditto.
		L	16 03 33						
		FE	16 03 52						
		FN	16 04 02						
246	Oct. 26	eP	12 55 41						Local shock.
		FE	12 56 26						
		FN	12 56 26						
247	Oct. 28	eP	2 26 11	1.6	-81			122	Near Unebi, Nara province.
		L	2 26 23						
		ME	2 26 23						
		MN	2 26 23						
		FE	2 32 \pm						
		FN	2 32 \pm						
248	Oct. 31	eP	16 38 28	2.0 1.5	$+21$				The same as No. 225
		L	16 39 13						
		ME	16 39 28						
		MN	16 39 18						
		FE	16 44 \pm						
		FN	16 44 \pm						

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks								
					AE μ	AN μ	AZ μ										
249	Nov. 2	P	21 16 59	16.6 20.6	± 3				Trace of a distant earthquake.								
		eL	21 29 56														
		ME	21 31 52														
		MN	21 31 03														
		FE	21 55 \pm														
		FN	21 59 \pm														
250	Nov. 3	eP	4 30 47					159	Slight shock was felt, Near Muroto cape.								
		L	4 31 04														
		M ₁ E	4 31 05														
		M ₁ N	4 31 05														
		M ₂ E	4 31 16														
		FE	4 38 \pm														
251	Nov. 3	P	16 21 06	3.8 3.1 3.8 3.3	-185			953	Near Naze.								
		S	16 22 18														
		L	16 23 12														
		M ₁ E	16 23 21														
		M ₁ N	16 24 37														
		M ₂ E	16 24 39														
252	Nov. 4	eP	0 12 40						Trace of a distant earthquake.								
		L	0 22 34														
		ME	0 23 10														
		FE	1 06 \pm														
		253	Nov. 4							ME	18 39 32	2.4					Wave form very flat and irregular.
										MN	18 39 50						
FE	18 43 \pm																
FN	18 43 \pm																
254	Nov. 4	P	20 46 45					402	The after shock of the								

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks
					AE μ	AN μ	AZ μ		
255	Nov. 5	L	20 47 35					877	great Sagami Sea earthquake. Near Naze.
		M ₁ E	20 47 50	3.3	-211				
		M ₁ N	20 47 49	2.8		+420			
		M ₂ E	20 49 08	3.3	-188				
		FE	20 59 ±						
		FN	21 01 ±						
		P	21 29 38						
		S	21 31 00						
		L	21 31 34						
		M ₁ E	21 31 47	3.4	-676				
M ₁ N	21 32 11	3.9		+738					
M ₂ E	21 32 41		-660						
M ₃ E	21 33 20	3.8	-790						
CE	21 41 50	12.1	138						
CN	21 41 05	8.8		±16					
FE	22 26 ±								
FN	22 19 ±								
256	Nov. 6	eP	13 37 05				Ditto.		
		L	13 38 00						
		ME	13 38 01	1.5	±14				
		MN	13 38 04	1.6		±13			
		FE	13 41 ±						
		FN	13 41 ±						
257	Nov. 6	eP	19 20 28				Ditto.		
		eS	19 21 56						
		eL	19 23 00						
		ME	19 24 06						
		MN	19 23 32						
		FE	19 39 ±						
		FN	19 40 ±						
258	Nov. 10	ME	1 02 31	2.8	±9		Flat wave form		
		MN	1 00 58	2.7		±6			

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks				
					AE μ	AN μ	AZ μ						
259	Nov. 11	FE	1 07 ±				507	The after shock of the great Sagami sea earthquake.					
		FN	1 06 ±										
		P	5 11 54										
		L	5 12 57										
		ME	5 12 59	±14									
		MN	5 13 00		±8								
260	Nov. 15	P	21 34 33				384	Ditto.					
		L	21 35 21										
		ME	21 35 23	±16									
		MN	21 35 23		±13								
		MV	21 35 40			±10							
		FE	21 43 ±										
		FN	21 42 ±										
		FV	21 43 ±										
		261	Nov. 17	P	20 41 59				-10	-8	-5	445	Ditto.
				L	20 42 55								
M ₁ E	20 43 04			2.0	-125								
M ₁ N	20 43 09			2.4		-154							
M ₁ V	20 42 59			3.3			+138						
M ₂ E	20 44 17			3.2	-188								
M ₂ N	20 44 57			3.2		-100							
M ₂ V	20 44 17			3.3			-73						
FE	20 58 ±												
FN	20 57 ±												
FV	20 52 ±												
262	Nov. 18	P	21 33 12				1980	Near Formosa.					
		S	21 36 33										
		eL	21 38 51										
		ME	21 41 32										
		MN	21 40 33										

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		A _E	A _N	A _Z		
			h	m	s	s	μ	μ	μ	km.	
263	Nov. 19	M _V	21	39	08	19.0			±5		Local shock.
		F _E	22	06	±						
		F _N	22	18	±						
		eP	16	39	00						
		M _N	16	39	13			±5			
		F _E	16	39	47						
264	Nov. 21	P	16	33	50					453	The after shock of the great Sagami sea earthquake.
		L	16	34	57						
		M _E	16	34	50		±8				
		M _N	16	35	02						
		M _V	16	34	54	2.4			±5		
		F	16	38	±						
265	Nov. 21	P	17	01	33					430	Ditto.
		L	17	02	27						
		M _E	17	03	07	2.4	±13				
		M _N	17	02	46	1.9		±33			
		M _V	17	02	29	2.0			±14		
		F _E	17	12	±						
		F _N	17	12	±						
		F _V	17	09	±						
		266	Nov. 23	P	2	34	41				
L	2			35	20						
M _E	2			35	42	2.4	-425				
M _N	2			35	48	2.8					
M _V	2			35	44	2.4		-600			
F _E	2			51	±				-372		
F _N	2			49	±						
F _V	2			50	±						
267	Nov. 23	M _E	12	37	57		±8				Local shock.
		M _N	12	37	58				±11		

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		A _E	A _N	A _Z		
			h	m	s	s	μ	μ	μ	km.	
268	Nov. 25	F _E	12	38	49						Fail E-W Component.
		F _N	12	38	26						
		eP	17	06	52						
		S	17	10	26						
		eL	17	14	10						
		M _N	17	17	13	17.9			±30		
269	Nov. 25	eP	23	53	59						Local shock.
		L	23	54	07						
		M _E	23	54	07		±6				
		M _N	23	54	08				±10		
		F	23	56	±						
270	Nov. 26	P	23	17	53					274	Near Mitugi.
		L	23	18	26						
		M _E	23	18	30		±10				
		M _N	23	18	31	1.2			±13		
		M _V	23	18	29					±8	
		F _E	23	21	±						
		F _N	23	20	±						
		F _V	23	20	±						
271	Nov. 27	eP	3	22	20					355	Felt at Miyazaki.
		L	3	23	34						
		M _E	3	23	51	1.9	±60				
		M _N	3	23	45	2.1			±59		
		M _{1V}	3	23	42	2.0				±27	
		M _{2V}	3	25	00	4.3				±34	
		F _E	3	32	±						
		F _N	3	31	±						
272	Nov. 29	M _E	4	45	32		±18				Local shock.
		M _N	4	45	31				±13		
		F _E	4	47	±						

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks
					AE μ	AN μ	AZ μ		
273	Dec. 2	FN	4 47 ±					161	Felt at Hikone.
		P	13 19 12						
		L	13 19 29						
		ME	13 19 48	±13					
		MN	13 19 31		1.4	±9			
		FE	13 23 ±						
		FN	13 22 ±						
274	Dec. 3	ME	8 40 29	3.1	±15			388	A distant earthquake.
		MN	8 41 28						
		FE	8 53 ±						
		FN	8 51 ±						
275	Dec. 4	P	9 51 15					388	
		L	9 52 03						
		ME	9 52 13	±5					
		MN	9 52 11		2.4	±5			
		FE	9 59 ±						
		FN	9 59 ±						
276	Dec. 4	P	23 40 54					212	E-W Component ran out of scale; sensible. Near the cape of Muroto.
		L	23 41 18						
		M ₁ N	23 41 32		2.4	+1000			
		M ₂ N	23 41 47		3.8	+620			
		C ₁ N	23 42 39		3.4	+250			
		C ₂ N	23 43 35		3.4	+240			
		FN	23 59 ±						
277	Dec. 5	MN	20 50 14	16.6				4823	By Omori's Tromometer. A distant earthquake.
		FN	21 08 ±			±20			
278	Dec. 5	P	22 42 50					4823	Ditto.
		S	22 46 17						
		L	22 50 52						
		ME	22 53 32			±15			

No.	Date	Phase	Time G. M. T.	Period s	Amplitude			Δ km.	Remarks
					AE μ	AN μ	AZ μ		
279	Dec. 6	MN	22 55 37	12.0		±15		44	Near Sasayama.
		FE	23 14 ±						
		FN	23 28 ±						
		P	20 33 03						
		L	20 33 03						
		ME	20 33 09	±38					
		MN	20 33 10			±45			
280	Dec. 7	MZ	20 33 09				4120	A distant earthquake.	
		FE	20 34 15			±6			
		FN	20 34 20						
		P	15 53 49						
		S	16 03 25						
281	Dec. 7	L	16 07 30				40	A local shock.	
		MN	16 08 06	23.8		±10			
		FN	16 53 ±						
		P	16 14 09						
		L	16 14 14						
282	Dec. 8	ME	16 14 14		±10		940		
		MN	16 14 14			±11			
		MZ	16 14 14			±4			
		FE	16 15 11						
		FN	16 14 47						
		FZ	16 15 06						
283	Dec. 9	P	19 07 55				3.0	±6	±8
		S	19 09 09						
		L	19 09 59						
		ME	19 10 09						
		MN	19 10 16						
		FE	19 16 ±						
283	Dec. 9	FN	19 16 ±				98	Kii channel.	
		P	14 14 57						

No.	Date	Phase	Time			Period	Amplitude			J	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
		L	14	15	05						
		ME	14	15	11		±30				
		MN	14	15	12			±41			
		MZ	14	15	13				±13		
		FE	14	18	±						
		FN	14	18	±						
		FZ	14	18	±						
284	Dec. 10	L	10	34	21			±5			A local shock.
		FN	10	34	42						
285	Dec. 12	P	4	04	36					188	Near Onomichi.
		L	4	04	57						
		ME	4	05	00	0.8	±119				
		MN	4	05	00	1.0		±165			
		MZ	4	05	01				±76		
		FE	4	14	±						
		FN	4	15	±						
		FZ	4	15	±						
286	Dec. 15	P	11	46	21					68	Felt at Shimonoseki.
		L	11	46	27						
		ME	11	46	29						
		MN	11	46	28			±13			
		FE	11	47	21						
		FN	11	47	16						
287	Dec. 16	MN	12	00	11			±4			A local shock. In Kii channel.
		FN	12	01	13						
288	Dec. 16	P	14	01	22					80	Ditto.
		L	14	01	28						
		ME	14	01	30		±6				
		MN	14	01	29				±6		
		FE	14	02	22						
		FN	14	02	14						

No.	Date	Phase	Time			Period	Amplitude			J	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
289	Dec. 17	P	16	14	02					99	A local shock. In Kii channel.
		L	16	14	11						
		ME	16	14	12		±20				
		MN	16	14	12			±28			
		MZ	16	14	19				±8		
		FE	16	15	45						
		FN	16	15	46						
		FZ	16	15	42						
290	Dec. 18	P	23	17	29					305	Felt at Fukui and Kanazawa.
		L	23	18	05						Off of the peninsula of Noto.
		ME	23	18	10		±14				
		MN	23	18	13			±13			
		MZ	23	18	16	2.0			±9		
		FE	23	22	±						
		FN	23	22	±						
		FZ	23	23	±						
291	Dec. 19	eP	13	50	46					146	
		L	13	51	01						
		ME	13	51	06						
		MN	13	51	02	1.9		±5			
		FE	13	52	11						
		FN	13	52	13						
292	Dec. 20	P	13	18	37					317	In Japan sea.
		L	13	19	16						
		ME	13	19	40	3.6	-10				
		MN	13	19	47	3.6		-8			
		FE	13	22	±						
		FN	13	22	±						
293	Dec. 22	eP	2	31	30						A local shock.
		L	2	31	36						
		ME	2	31	38						
		MN	2	31	38						

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
294	Dec. 23	FE	2	32	±					109	A local shock.
		FN	2	32	±						
		P	15	14	02						
		L	15	14	11		±21				
		FE	15	15	39						
295	Dec. 24	FN	15	15	25					337	An after shock of the great Sagami Bay earthquake.
		P	3	40	50						
		L	3	41	31						
		M ₁ E	3	41	47	1.5	±175				
		M ₁ N	3	41	46	2.4		±330			
		M ₁ Z	3	41	41	2.5			±138		
		M ₂ E	3	42	49	3.0	±180				
		M ₂ N	3	43	00	1.9		±113			
		FE	3	55	±						
		FN	3	54	±						
296	Dec. 27	FZ	3	55	±						The registration was not clear.
		ME	7	19	41						
		MN	7	20	18						
		FE	7	25	±						
		FN	7	25	±						
297	Dec. 27	P	14	40	24					578	An after shock of the great Sagami sea earthquake.
		S	14	41	00						
		L	14	41	38						
		M ₁ E	14	42	29	5.3	+326				
		M ₁ N	14	42	13	3.8		-360			
		M ₁ Z	14	42	12	3.8			+150		
		M ₂ E	14	42	56	4.3	+332				
		CE	14	46	16	3.8	-54				
		CN	14	45	59	3.0			+35		
		FE	14	57	±						
		FN	14	54	±						
		FZ	14	52	±						

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			G.	M.	T.		AE	AN	AZ		
			h	m	s	s	μ	μ	μ	km.	
298	Dec. 28	P	12	04	41					408	In the sea of Hyuga.
		L	12	05	32						
		ME	12	05	37	1.5	+18				
		MN	12	05	39	1.5		-14			
299	Dec. 28	P	12	10	55					400	Ditto.
		L	12	11	45						
		ME	12	12	17	1.9	±9				
		MN	12	11	47	1.9		±10			
		MZ	12	11	58	1.5			±5		
		FE	12	23	±						
		FN	12	21	±						
300	Dec. 31	FZ	12	22	±					304	
		P	5	51	57						
		L	5	52	38						
		ME	5	52	35		-18				
		MN	5	52	51	1.2		-21			
		MZ	5	52	50	1.4			+10		
		FE	5	58	±						
		FN	5	58	±						
FZ	5	56	±								