

**SEISMOLOGICAL BULLETIN**  
OF  
**THE NUMADU METEOROLOGICAL OBSERVATORY**  
OF  
**JAPAN**  

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**Vol. III**

---

**1933**

Published by  
The Numadu Meteorological Observatory  
NUMADU, JAPAN

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# CONSTANTS

## THE NUMADU OBSERVATORY

Latitude and longitude of the observatory:-

$$\varphi = 35^{\circ} 06' \text{ N Lat.}$$

$$\lambda = 138^{\circ} 51' \text{ E from Greenwich.}$$

Time:- All determinations are reduced to Greenwich mean time.

Altitude:- 6.0 meters above mean sea level.

Foundation:- Alluvium, soft ground.

## CONSTANTS OF THE SEISMOGRAPHS

Date	Apparatus	Component	V	$T_0$	$\xi$	$\frac{\gamma}{T_0^2}$
Jan. 23, 1933	Wiechert horizontal seismograph 200kg. Wiechert vertical seismograph 80 kg.	N	83	3.4	6	0.03
		E	78	3.5	4	0.02
		Z	42	4.0	6	0.05
Feb. 23, 1933	//	N	70	3.4	6	0.03
		E	70	3.4	4	0.02
Mar. 23, 1933	//	N	44	3.8	6	0.02
		E	51	3.7	4	0.02
		Z	42	4.0	6	0.03
May 10, 1933	//	N	67	4.3	6	0.02
		E	50	3.6	4	0.02
		Z	42	4.0	6	0.03
May 24, 1933	//	N	75	3.8	4	0.03
		E	98	3.3	6	0.03
		Z	42	4.0	6	0.03
July 6, 1933	//	N	80	3.8	4	0.03
		E	98	3.3	6	0.03
		Z	42	4.0	6	0.03
Sept. 11, 1933	//	N	78	3.8	6	0.03
		E	78	3.3	10	0.03
		Z	44	2.3	9	0.02
Dec. 2, 1933	//	N	78	3.8	6	0.03
		E	78	3.3	10	0.02
		Z	44	2.3	9	0.02
	C.M.O. Type seismograph.	N 2.3kg. E 2.3kg. Z 2.3kg.	2 2 3	3.5 3.5 4.3	2 2 2	0.02 0.02 0.02
	C.M.O. Type portable seismograph.	N 20kg. E 20kg.	40 40	5.9 6.3	3 3	0.03 0.02
	Omori's horizontal seismograph.	N 15.9kg. E 16.0kg.	20 20	20.0 10.0	4 3	0.01 0.02



# CONSTANTS



## THE ITÔ STATION

Latitude and longitude of the station:-

$$\varphi = 34^{\circ} 58' \text{ N Lat.}$$

$$\lambda = 139^{\circ} 06' \text{ E from Greenwich.}$$

Time:- All determinations are reduced to Greenwich mean time.

Altitude:- 2.2 meters above mean sea level.

Foundation:- Alluvium, sand.

### Constants of the Seismograph.

Apparatus	Component	V	$T_0$	$\xi$	$\frac{\gamma}{T_0^2}$
C. M. O. Type Portable Seismograph 18kg.	N	40	6.0	2	0.03
	E	30	6.0	2	0.03

## THE GOTENBA STATION

Latitude and longitude of the station:-

$$\varphi = 35^{\circ} 19' \text{ N Lat.}$$

$$\lambda = 138^{\circ} 56' \text{ E from Greenwich.}$$

Time:- All determinations are reduced to Greenwich mean time.

Altitude:- About 450 meters above mean sea level.

### Constants of the Seismograph.

Apparatus	Component	V	$T_0$	$\frac{\gamma}{T_0^2}$
C. M. O. Type Portable Seismograph	N	40	5.4	0.02
	E	40	5.6	0.02

## THE ÔMIYA STATION

Latitude and longitude of the station:-

$$\varphi = 35^{\circ} 13' \text{ N lat.}$$

$$\lambda = 138^{\circ} 38' \text{ E from Greenwich.}$$

Time:- All determinations are reduced to Greenwich mean time.

Altitude:- About 125 meters above mean sea level.

### Constants of the Seismograph.

Apparatus	Component	V	$T_0$	$\frac{\gamma}{T_0^2}$
Ômori's Portable Seismograph 20kg	N	50	2.3	0.04
	E	50	2.3	0.04



## 1. Scales of the intensity of earthquake.

0. No feeling. I. Slight. II. Moderate. III. Rather strong. IIII. Strong.  
V. Very strong VI. Disastrous.

## 2. Phases of the Seismogram.

- P. First preliminary tremor (longitudinal)  
S. Second preliminary tremor (transverse)  
PS. Waves changed from longitudinal to transverse oscillation, or vice versa,  
through reflection at the earth's surface.  
L. Long waves of the surface phase.  
M. Maximum amplitude in the surface waves.  
C. Tail or end portion.  
E. End of discernible movements.  
 $\bar{P}$ . Individual or upper first preliminary tremor.  
 $\bar{S}$ . Individual or upper second preliminary tremor.

## 3. Nature of the motion.

- i. Sudden beginning of motion.  
e. Gradual beginning of motion.  
T. Time of one complete oscillation.  
A. Amplitude of the earth motion in microns, + motion toward east,  
north, or zenith, - motion toward west, south, or nadir.  
AE. E—W component of A.  
AN. N—S component of A.  
AZ. Vertical component of A.



The number of the earthquakes recorded at Numadu, Itô, Gotenba and Ômiya classified by the intensity.



	Jan.				Feb.				Mar.				Apr.				May								
	un-felt	felt			sum	un-felt	felt			sum	un-felt	felt			sum	un-felt	felt			sum	un-felt	felt			sum
		intensity					intensity					intensity					intensity					intensity			
I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III		
Numadu	29	1	0	0	30	19	0	0	0	19	73	0	0	1	74	25	1	0	0	26	12	0	0	1	13
Itô	6	0	0	0	6	7	0	0	0	7	16	0	0	1	17	9	1	0	0	10	8	0	0	0	8
Gotenba	8	0	0	0	8	10	0	0	0	10	39	0	0	1	40	12	1	0	0	13	2	0	1	0	3
Ômiya	4	0	0	0	4	8	0	0	0	8	9	0	0	1	10	3	0	0	0	3	0	1	0	0	1

	June				July				Aug.				Sept.				Oct.								
	un-felt	felt			sum	un-felt	felt			sum	un-felt	felt			sum	un-felt	felt			sum	un-felt	felt			sum
		intensity					intensity					intensity					intensity					intensity			
I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III		
Numadu	16	0	0	0	16	46	0	0	0	46	10	0	0	0	10	22	0	0	0	22	19	2	1	0	22
Itô	9	1	0	0	10	30	2	0	0	32	5	0	0	0	5	22	0	0	0	22	10	3	0	0	13
Gotenba	8	1	0	0	9	13	1	0	0	14	2	1	0	0	3	8	0	0	0	8	10	1	0	1	12
Ômiya	4	1	0	0	5	0	1	0	0	1	1	0	0	0	1	4	0	0	0	4	6	1	0	0	7

	Nov.				Dec.				Total						
	un-felt	felt			sum	un-felt	felt			sum	un-felt	felt			sum
		intensity					intensity					intensity			
I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	
Numadu	29	0	0	0	29	12	0	0	1	13	312	4	1	3	320
Itô	22	1	0	0	23	17	0	0	1	18	161	8	0	2	171
Gotenba	2	5	0	0	7	5	0	0	1	6	119	10	1	3	133
Ômiya	9	0	0	0	9	0	0	0	1	1	48	4	0	2	54

The earthquakes within a distance of 60km from Numadu.

No.	Date	Time of occurrence at Numadu(G.M.T.)			Intensity	Distance of epicentre (km)	Remarks
		h	m	s			
1	Jan. 19	10	11	33.1	0	22	N-ern part of the Suruga Bay.
2	Jan. 21	17	02	29.4	0	16	Ditto.
3	Jan. 31	12	47	28.5	I	38	Middle part of the Suruga Bay.
4	Feb. 1	16	39	06.7	0	48	Neighbourhood of Mt. Tanzawa.
5	Mar. 7	13	50	21.5	0	—	Neighbourhood of Numadu.
6	Mar. 11	6	23	47.6	0	42	Upper valley of the R. Dôsi.
7	Mar. 18	22	22	30.6	0	45	Upper valley of the R. Katura.
8	Apr. 14	5	24	39.6	0	50	Upper valley of the R. Katura.
9	May 2	18	23	16.0	0	—	Neighbourhood of Numadu.
10	May 18	6	18	17.9	I	26	Neighbourhood of Itô.
11	May 30	4	14	02.6	III	5	Neighbourhood of Numadu.
12	July 3	0	25	06.8	I	26	Neighbourhood of Itô.
13	July 4	17	04	30.4	0	—	Neighbourhood of Numadu.
14	July 6	23	59	12.0	0	56	Upper valley of the R. Katura.
15	July 21	6	33	19.2	0	—	Neighbourhood of Numadu.
16	Aug. 6	20	54	31.0	0	—	Neighbourhood of Numadu.
17	Aug. 15	19	59	36.5	0	15	N-ern part of the Suruga Bay.
18	Aug. 23	0	31	21.2	0	15	N-ern part of the Suruga Bay.
19	Sept. 16	13	02	27.4	0	—	Neighbourhood of Itô.
20	Sept. 21	17	35	37.3	I	45	Upper valley of the R. Dôsi.
21	Sept. 25	15	32	16.8	0	—	Neighbourhood of Itô.
22	Oct. 1	7	22	05.8	0	—	Neighbourhood of Itô.
23	Oct. 9	12	06	39.7	III	37	Neighbourhood of Yamanaka Lake.
24	Oct. 9	12	08	23.0	I	39	Upper valley of the R. Dôsi.
25	Oct. 29	0	14	31.9	0	—	Neighbourhood of Numadu.
26	Nov. 6	15	56	55.2	0	47	Neighbourhood of Mt. Tanzawa.
27	Nov. 8	15	00	32.1	I	45	Upper valley of the R. Dôsi.
28	Dec. 6	7	43	31.8	0	24	Neighbourhood of Itô.
29	Dec. 7	18	35	25.5	III	28	Neighbourhood of Odawara.
30	Dec. 8	6	32	44.6	0	—	Neighbourhood of Mt. Hakone
31	Dec. 12	17	03	1.6	0	—	Neighbourhood of Numadu.
32	Dec. 13	15	05	43.1	0	—	Neighbourhood of Itô.
33	Dec. 24	1	34	39.3	0	—	Ditto.
34	Dec. 26	14	34	46.4	0	—	Neighbourhood of Mt. Hakone.



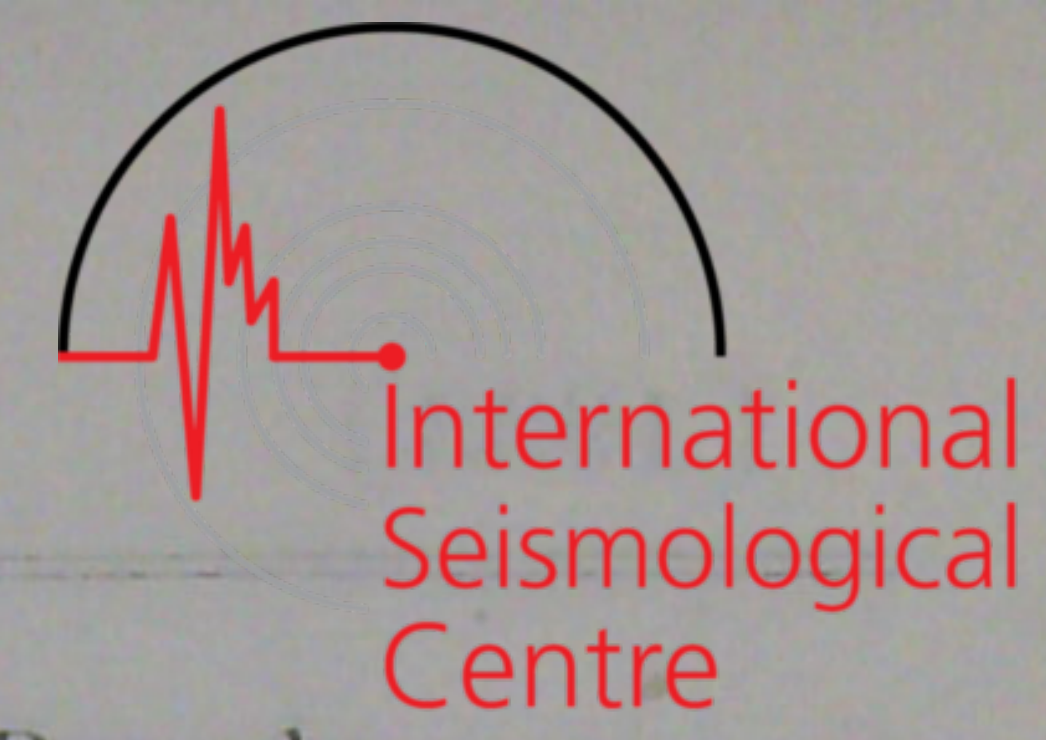
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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks											
					G.	M.	T.	AE	AN	Az	Period												
					h	m	s	$\mu$	$\mu$	$\mu$	s												
1	Numadu	Jan. 1	0	e F	8	58	18.5					Distant earthquake.											
2	Ômiya	" 3	0	P	3	03	37.5	+ 2	+ 5				?										
				S	3	04	6.9																
				M <sub>N</sub>	3	04	35.6							+ 60									
				M <sub>E</sub>	3	04	38.7								- 100								
				C	3	05	44.3																
				F	3	07	32.1																
3	Numadu	" 3	0	eP	15	29	3.8	- 116	+ 160				ENE off to the coast of Miyako.										
				P	15	29	16.6																
				S	15	30	22.5																
				M <sub>N</sub>	15	30	41.7							2.5									
				M <sub>E</sub>	15	31	2.4								2.5								
				C	15	34	9.5																
F	15	44	20.0																				
Itô	" 3	0	P	15	29	13.4	± 21	± 23															
			S	15	30	42.2																	
			M <sub>N</sub>	15	31	8.9																	
			M <sub>E</sub>	15	31	38.5																	
			C	15	36	—																	
			F	15	40	50.0																	
Gotenba	" 3	0	P	15	28	51.5	- 88	+ 88															
			S	15	30	14.2																	
			M <sub>N</sub>	15	30	30.0								- 250									
			M <sub>E</sub>	15	31	30.4									+ 350								
			C	15	33	2.9																	
			F	15	37	30.0																	
4	Itô	" 3	0	e	18	53	32.1						Neighbourhood of Mt. Hakone.										
				F	18	54	30.0																
5	Numadu	" 3	0	e	22	42	7.5						The Japan Sea.										
				S	22	43	10.9																
				F	22	46	20.0																
Itô	" 3	0	P	22	41	46.5																	
			S	22	42	53.6																	
			C	22	44	16.2																	
			F	22	47	—																	
6	Numadu	" 4	0	e	0	55	27.6						ENE off to the coast of Miyako.										
				F	1	01	20.0																
7	Numadu	" 4	0	eP	1	27	17.1						SE off to Titisima I.,										
				S	1	29	6.1																
				C	1	31	48.1																
				F	1	07	20.0																
				Itô	" 4	0	P							1	27	27.9							
							S							1	29	15.0							
L?	1	31	26.0																				
C	1	34	0.0																				
F	1	47	—																				
Gotenba	" 4	0	P	1	27	23.3	- 63	- 75															
			S	1	29	15.2																	
			M <sub>N</sub>	1	29	18.5								- 75									
			M <sub>E</sub>	1	29	16.8									+ 75								
			C	1	31	15.2																	
			F	1	36	15.0																	
8	Numadu	" 4	0	e	4	08	33.5						The direction of Kamchatka.										
				F	4	13	20.0																
9	Numadu	" 6	0	e	16	01	59.5						Off to the mouth of the R. Abukuma.										
				F	16	04	0.0																
10	Numadu	" 7	0	eP	4	08	24.0	+ 400	+ 320				ENE off to the coast of Miyako.										
				S	4	09	51.6																
				M <sub>E</sub>	4	11	6.8							2.5									
				M <sub>N</sub>	4	10	46.1								2.5								
				C	4	20	41.8																
				F	4	37	10.0																





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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					C. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
	Gotenba	Jan. 7	0	P	4	08	19.2	- 275	+ 288			
				S	4	09	54.2					
				MN	4	10	16.9		+1013			
				ME	4	12	5.5	+ 875				
				C	4	14	38.2					
				F	4	29	15.0					
	Ômiya	" 7	0	P	4	08	59.1?					
				S	4	10	21.4					
				MN	4	11	8.2		+ 830			
				ME	4	11	3.3	+ 910				
				C	4	13	43.7					
				F	4	27	—					
11	Numadu	" 7	0	e	4	27	20.8					Ditto.
				F	4	30	10.0					
12	Gotenba	" 7	0	e	4	55	31.7					Ditto.
				F	5	01	10.0					
13	Numadu	" 7	0	e	5	33	16.7					Ditto.
				F	5	39	10.0					
	Gotenba	" 7	0	e	5	32	57.9					
				F	5	37	10.0					
14	Numadu	" 7	0	e	5	55	53.4					Ditto.
				S	5	57	11.7					
				F	6	02	10.0					
15	Numadu	" 7	0	e	6	26	42.6					Ditto.
				F	6	31	—					
16	Numadu	" 7	0	e	20	10	36.1					Ditto.
				F	20	17	10.0					
17	Numadu	" 8	0	eP	6	30	41.9					E off to the mouth of the R. Mabuti.
				eS	6	32	24.9					
				MN	6	32	44.0		+ 170		2.8	
				ME	6	32	52.5	- 186			2.8	
				C	6	34	12.7					
				F	6	41	10.0					
	Itô	" 8	0	P	6	31	4.3					
				eS	6	32	33.2					
				C	6	37	9.3					
				F	6	43	50.0					
	Ômiya	" 8	0	P	6	30	46.6					
				S	6	32	6.1					
				MN	6	32	35.4		+ 170			
				ME	6	32	34.1	+ 345				
				C	6	33	3.3					
				F	6	39	35.0					
18	Numadu	" 8	0	e	18	31	18.5					ENE off to the coast of Miyako.
				F	18	35	30.0					
19	Numadu	" 8	0	e	20	57	7.8					Ditto.
				F	21	03	10.0					
20	Numadu	" 9	0	e	2	10	55.5					Ditto.
				F	2	14	50.0					
21	Numadu	" 9	0	e	2	18	36.9					Neighbourhood of Kumagaya.
				F	2	22	10.0					
22	Gotenba	" 9	0	e	2	56	32.7					
				F	3	01	40.0					
23	Numadu	" 9	0	P	16	56	36.1					SE off to the cape of Inubo.
				S	16	57	4.4					
				F	17	01	10.0					



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks	
					g.	m.	s.	AE	AN	Az	Period		
					h	m	s	$\mu$	$\mu$	$\mu$	s		
24	Numadu	Jan. 12	0	P	10	51	2.0						Neighbourhood of Numadu.
				iS	10	51	6.6						
				F	10	54	—						
25	Numadu	" 12	0	e	14	11	14.6						SE off to Kinkazan I.,
				S	14	12	9.0						
				F	14	15	40.0						
26	Numadu	" 15	0	e	23	46	32.0				1.6		Middle valley of the R. Toyo, Aiti Pref.
				S	23	46	48.2						
				M <sub>N</sub>	23	47	6.9						
				C	23	48	0.0						
				F	23	50	50.0						
Itô	" 15	0	P	23	46	38.3							
			S	23	46	53.2							
			C	23	47	30.7							
			F	23	48	40.0							
27	Numadu	" 17	0	e	5	17	30.0						ENE off to Miyako.
				S?	5	18	56.1						
				F	5	23	40.0						
28	Numadu	" 19	0	eP	10	11	33.1						N part of Suruga Bay.
				eS	10	11	36.0						
				F	10	12	40.0						
29	Numadu	" 19	0	e	19	56	12.7						Upper valley of the R. Kogai.
				S	19	58	10.0						
30	Numadu	" 20	0	e	23	50	18.2						Off to the cape of Sioya.
				S	23	50	43.0						
				F	23	54	40.0						
31	Ômiya	" 21	0	P	16	33	24.0	+					?
				S	16	33	26.3						
				M <sub>N</sub>	16	33	27.6						
				M <sub>E</sub>	16	33	27.6						
				C	16	33	35.3						
				F	16	34	—						
32	Numadu	" 21	1	eP	17	02	29.4	-					N part of Suruga Bay.
				iS	17	02	31.6						
				M <sub>E</sub>	17	02	32.0						
				C	17	03	9.6						
				F	17	04	40.0						
33	Numadu	" 24	0	e	21	11	22.1				± 19	2.7	SE off to the cape of Sioya.
				M <sub>N</sub>	21	12	20.2						
				C	21	13	8.7						
				F	21	15	30.0						
Gotenba	" 24	0	e	21	11	3.3							
			F	21	15	50.0							
34	Numadu	" 31	0	e	2	50	16.0						NE off to the cape of Imbo.
				F	2	54	20.0						
35	Numadu	" 31	0	eP	12	47	28.5						Middle part of Suruga Bay.
				S	12	47	33.3						
				F	12	49	40.0						
36	Numadu	Feb. 1	0	e	16	39	6.7	± 19				1.0	Mt. Tanzawa.
				S	16	39	12.4						
				M <sub>E</sub>	16	39	28.5						
				F	16	43	10.0						
Itô	" 1	0	P	16	39	2.7							
			S	16	39	12.3							
			F	16	40	35.0							
Gotenba	" 1	0	e	16	39	3.0							
			F	16	41	10.0							



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
	Ômiya	Feb. 1	0	P	16	39	20.9?					
				S	16	39	24.5					
				MN	16	39	25.2		+ 200			
				ME	16	39	25.1	+ 15				
				C	16	39	38.8					
				F	16	40	19.7					N off to Etorohu I.,
37	Numadu	" 3	0	e	22	15	22.4					
				S?	22	18	2.1					
				ME	22	18	36.9	$\pm$ 29			2.2	
				F	22	25	10.0					
	Gotenba	" 3	0	e	22	15	20.1					
				F	22	24	17.0					
38	Numadu	" 4	0	e	6	20	21.8					WNW off to Titisima I.,
				S	6	21	4.3					
				F	6	27	10.0					
39	Numada	" 7	0	e	0	13	25.2					Neighbourhood of Simoduma,
				S	0	13	34.8					Ibaraki Pref.,
				F	0	17	30.0					
	Itô	" 7	0	eP	0	13	8.0					
				S	0	13	19.5					
				F	0	16	—					
	Gotenba	" 7	0	e	0	13	10.4					
				F	0	15	55.0					
	Ômiya	" 7	0	P	0	13	6.1?					
				S	0	13	26.5					
				MN	0	13	26.5		+ 12			
				C	0	14	18.0					
				F	0	15	20.0					
40	Ômiya	" 9	0	P	1	00	16.5	+ 5	+ 2			?
				S	1	01	6.3					
				MN	1	01	5.4		+ 5			
				C	1	01	24.4					
				F	1	01	55.0					
41	Numadu	" 9	0	e	3	57	58.7					SW off to Hatizyo I.,
				S	3	58	48.1					
				ME	3	58	48.8	+ 88			1.9	
				C	4	01	26.8					
				F	4	08	—					
	Itô	" 9	0	eP	3	57	51.2					
				iP	3	58	37.2					
				MN	3	58	38.6		$\pm$ 54		2.8	
				ME	4	58	39.0	- 78			4.1	
				C	4	02	3.0					
				F	4	08	20.0					
	Ômiya	" 9	0	P	3	57	13.8?	+ 4	+ 7			?
				S	3	58	11.5					
				MN	3	58	27.4		+ 30			
				ME	3	58	19.5	+ 20				
				C	3	59	25.8					
				F	4	06	—					
42	Ômiya	" 9	0	P	16	22	29.9					
				S	16	41	7.3					
				MN	17	25	17.3		+ 20			
				ME	16	57	29.9	+ 17				
				C	18	07	3.6					
				F	18	10	16.0					
43	Numadu	" 13	0	ePH	6	51	30.0					Kasimanada.
				ePz	6	51	29.0					
				eP	6	51	43.7					
				SH	6	51	59.5					
				Sz	6	51	57.3					
				MN	6	52	41.5		+ 287		2.0	



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
				ME	6	52	39.5	+ 250			2.0	
				Mz	6	52	26.5			+ 112	2.0	
				C	6	55	0.0					
				F	7	01	0.0					
	Itô	Feb. 13	0	eP	6	51	26.3					
				eS	6	51	53.0					
				F	6	57	20.0					
	Gotenba	" 13	0	iP	6	51	28.1					
				S	6	51	5.4	- 125	+ 225			
				MN	6	52	5.7		+ 600			
				ME	6	52	13.5	+ 638				
				C	6	53	54.4					
				F	7	01	30.0					
	Ômiya	" 13	0	P	6	51	32.3?					
				S	6	51	50.9					
				MN	6	52	21.0		+ 256			
				ME	6	52	39.1	+ 170				
				C	6	53	50.4					
				F	6	58	20.0					
44	Numadu	" 13	0	e	17	29	52.1					E far off to the coast of Miyako.
				F	17	36	0.0					
45	Numadu	" 18	0	e	8	18	56.3					Upper valley of the R. Tikusa, Hyogo Pref.,
				S?	8	19	33.9				2.6	
				ME	8	20	1.0	+ 38				
				C	8	21	0.0					
				F	8	23	10.0					
46	Numadu	" 19	0	e	12	08	32.4					The R. Tuki, Saitama Pref.,
				F	12	11	0.0					
47	Numadu	" 20	0	e	9	52	8.5					E far off to the cape of Sioya.
				S	9	52	37.0					
				MN	9	53	27.0		± 87		2.5	
				C	9	55	30.0					
				F	10	02	—					
	Itô	" 20	0	P	9	52	13.5					
				S	9	53	3.8					
				MN	9	53	11.3					
				ME	9	53	12.3					
				C	9	54	14.5					
				F	9	58	—					
	Gotenba	" 20	0	e	9	52	5.8?					
				S	9	53	41.8	+ 125	- 38			
				ME	9	53	53.2	- 138				
				MN	9	53	56.3		- 250			
				C	9	55	39.0					
				F	10	00	30.0					
	Ômiya	" 20	0	P	9	52	12.0?					
				S	9	53	10.9					
				MN	9	53	49.4		+ 45			
				ME	9	53	38.1	+ 70				
				C	9	54	20.0					
				F	9	58	40.0					
48	Itô	" 20	0	P	11	58	41.3					Inba marsh.
				S	11	58	56.0					
				F	12	00	20.0					
	Gotenba	" 20	0	e	11	59	43.1					
				F	12	01	53.9					
49	Gotenba	" 20	0	e	14	19	34.4					E off to the cape of Sioya.
				F	14	23	24.0					
50	Itô	" 21	0	P	2	53	56.0					Neighbourhood of Sahara. Tiba Pref.,
				S	2	54	11.5					
				C	2	55	30.1					
				F	2	58	40.0					
	Gotenba	" 21	0	e	2	54	53.0					
				F	2	59	22.0					





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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks	
					G. M. T.			AE	AN	Az	Period		
					h	m	s	$\mu$	$\mu$	$\mu$	s		
51	Numadu	Feb. 22	0	e S F	15	41	21.9 29.5 0.0					Neighbourhood of Ohara. Yamanasi Pref.,	
52	Numadu	" 23	0	e F	8	29	13.2 0.0					Distant earthquake, Chile.	
53	Numadu	" 23	0	e F	16	45	15.2 0.0					Mt. Asama.	
54	Numadu	" 25	0	e S MN F	13	19	24.3 58.2 18.0 —		$\pm$ 19		2.0	Kasimanada.	
55	Numadu	" 27	0	e F	16	15	51.3 0.0					Off to the mouth of the R. Kuduryu.	
56	Numadu	" 28	0	e F	8	02	10.5 0.0					S off to Ōsima I.,	
57	Numadu	" 28	0	e S ME C F	8	46	31.0 42.8 2.0 — —	+ 38	.....	.....	1.2	Ditto.	
	Gotenba	" 28	0	e F	8	46	30.3 30.0						
	Ōmiya	" 28	0	e S MN ME C F	8	46	24.0? 35.3 44.3 38.7 56.8 50.0	+ 22	+ 38				
58	Numadu	" 28	0	e F	8	58	39.0 0.0					Ditto.	
59	Numadu	" 28	0	e F	12	37	0.0 0.0					Ditto.	
60	Numadu	Mar. 2	III	PH PH Pz Sz ME MN Mz Cz F?	17	32	29.4 46.1 26.3 42.3 59.4 56.4 53.8 20.0 —	+4800	+3200	-1280	2.5 2.5 2.5	Off to the coast of Sanriku.	
	Itô	" 2	III	P S	17	32	27.1 46.1						
	Gotenba	" 2	III	e S ME MN C F	17	32	23.1 53.9 — — 49.0 —	>1925	>1925				
	Ōmiya	" 2	III	P S C F	17	32	33.3? — 45.3 —						
61	Numadu	" 2	0	ePz Sz Mz C F	18	27	52.0 7.0 40.0 7.0 30.0			$\pm$ 60	2.4	Ditto.	



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					C. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
	Ômiya	Mar. 2	0	P	18	27	28.8					
				S	18	28	49.2					
				MN	18	29	48.1		+ 440			
				C	18	31	9.6					
				F	18	44	20.0					
62	Numadu	" 2	0	e	19	33	—					Ditto.
				F	19	38	—					
63	Numadu	" 2	0	PH	19	43	19.0					Ditto.
				PH	19	43	41.1					
				S	19	44	39.5					
				MN	19	45	36.0		+ 179		1.9	
				ME	19	45	19.0	+ 143			1.9	
				C	19	48	—					
				F	19	55	—					
	Itô	" 2	0	P	19	43	20.5					
				S	19	44	22.8					
				ME	19	45	11.3	± 69			6.8	
				MN	19	46	15.4		± 42		6.3	
				F	19	47	30.0					
	Gotenba	" 2	0	e	19	42	44.0					
				S	19	44	31.2					
				MN	19	44	36.0		- 475			
				ME	19	45	19.8	- 488				
				C	19	46	10.0					
				F	19	54	—					
	Ômiya	" 2	0	P	19	43	27.8					
				S	19	44	47.0					
				MN	19	45	2.8		+ 85			
				C	19	46	1.7					
				F	20	02	50.0					
64	Numadu	" 2	0	e	19	58	37.0					Ditto.
				F	20	02	—					
65	Numadu	" 2	0	e	20	16	37.0					Ditto.
				F	20	21	40.0					
66	Numadu	" 2	0	e	20	24	37.0					Ditto.
				F	20	37	40.0					
67	Numadu	" 2	0	P	20	44	22.0					Ditto.
				S	20	45	34.2					
				MN	20	46	41.0		+ 358		2.3	
				ME	20	46	50.0	+ 400			2.3	
				C	20	50	—					
				F	21	05	—					
	Itô	" 2	0	P	20	44	19.7					
				S	20	45	21.2					
				MN	20	47	14.8		± 82		6.6	
				ME	20	47	21.4	- 172			7.9	
				F	20	59	—					
	Gotenba	" 2	0	e	20	43	44.3					
				S	20	45	21.7					
				ME	20	45	35.2	- 775				
				MN	20	45	46.3		- 500			
				J	20	49	39.0					
				F	21	01	10.0					
	Ômiya	" 2	0	P	20	44	9.6?					
				S	20	45	30.0					
				MN	20	46	49.2		+ 360			
				C	20	48	42.5					
				F	20	54	40.0					
68	Numadu	" 2	0	e	21	07	10.9					Ditto.
				F	21	11	30.0					



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
69	Numadu	Mar. 2	0	e	21	49	39.8					Ditto.
				S	21	51	1.4					
				F	21	56	0.0					
	Itô	" 2	0	eP	21	49	43.7					
				F	21	55	—					
70	Numadu	" 2	0	e	22	10	52.0					Ditto.
				F?	22	12	—					
71	Numadu	" 2	0	e	22	13	?					Ditto.
				F?	22	18	10.0					
72	Numadu	" 2	0	eP	22	36	37.0					Ditto.
				S?	22	37	47.2					
				C	22	40	7.0					
				F	22	44	40.0					
	Itô	" 2	0	eP	22	36	31.0					
				F	22	42	—					
	Gotenba	" 2	0	e	22	36	55.0?					
				F	22	40	10.0					
73	Numadu	" 3	0	P	0	19	55.5					Ditto.
				S	0	21	15.8					
				ME	0	22	8.8	± 38			2.8	
				C	0	24	7.0					
				F	0	26	—					
	Itô	" 3	0	eP	0	21	21.9					
				F	0	33	30.0					
74	Numadu	" 3	0	e	0	26	37.0					Ditto.
				F	0	35	—					
75	Gotenba	" 3	0	e	0	59	25.0					Ditto.
				F	1	04	57.0					
76	Numadu	" 3	0	e	3	35	37.0					Ditto.
				F	3	39	10.0					
77	Gotenba	" 3	0	e	4	12	10.0					Ditto.
				F	4	48	18.0					
78	Numadu	" 3	0	e	4	40	14.7					Ditto.
				ME	4	42	15.7	± 39			2.9	
				F	4	55	—					
	Itô	" 3	0	eP	4	39	24.6					
				S	4	40	9.1					
				F	4	48	30.0					
79	Numadu	" 3	0	e	9	14	20.4					Ditto.
				S	9	15	42.7					
				MN	9	16	0.8		+ 286		2.9	
				ME	9	16	43.0	+ 260			2.9	
				F	9	30	—					
	Itô	" 3	0	P	9	14	16.4					
				S	9	15	18.8					
				ME	9	16	18.4	± 63			6.9	
				MN	9	16	36.6		± 53		5.1	
				F	9	33	20.0					
	Gotenba	" 3	0	e	9	14	16.0					
				S	9	15	25.0					
				MN	9	15	55.0		+ 500			
				ME	9	16	26.6	+ 550				
				F	9	26	10.0					



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks		
					G. M. T.			AE	AN	Az	Period			
					h	m	s	$\mu$	$\mu$	$\mu$	s			
	Ômiya	Mar. 3	0	P	9	14	17.1	+ 365	+ 390					
				S	9	15	27.3							
				MN	9	16	14.8							
				ME	9	16	14.8							
				C	9	18	3.5							
F	9	35	0.0											
80	Numadu	" 3	0	e	9	39	10.4	+ 132	+ 118		2.9	2.9	Ditto.	
				S?	9	40	27.3							
				MN	9	42	7.0							
				ME	9	42	2.5							
				c	9	44	50.0							
	Itô	" 3	0	eP	9	40	25.2							
				S	9	41	20.0							
				F	9	49	30.0							
	Gotenba	" 3	0	e	9	39	38.0	- 250	+ 288					
				S	9	41	10.0							
				MN	9	41	51.7							
				ME	9	41	48.0							
				C	9	45	5.0							
F	9	50	10.0											
	Ômiya	" 3	0	P	9	39	7.4?	+ 96	+ 69					
				S	9	40	45.9							
				MN	9	40	58.3							
				ME	9	40	43.6							
				C	9	42	42.5							
F	9	48	20.0											
81	Numadu	" 3	0	e	10	04	27.8						Ditto.	
				F	10	54	10.0							
	Gotenba	" 3	0	e	10	05	33.0							
				F	10	14	20.0							
82	Numadu	" 3	0	e	10	15	37.0	+ 66	+ 78		2.9	2.9	Ditto.	
				S	10	—	—							
				MN	10	18	17.0							
				ME	10	18	5.2							
				F	10	25	40.0							
83	Numadu	" 3	0	e	10	33	42.3	± 55	± 65		2.9	2.9	Ditto.	
				S	10	34	59.0							
				MN	10	32	46.5							
				ME	10	35	37.0							
				C	10	37	26.5							
F	10	46	40.0											
	Gotenba	" 3	0	e	10	33	55.0							
				F	10	40	—							
84	Itô	" 3	0	e	10	46	8.1						Ditto.	
				F	10	51	20.0							
85	Numadu	" 3	0	e	11	57	10.8	+ 93	+ 88		2.9	2.9	Ditto.	
				S	11	57	29.0							
				MN	11	57	58.2							
				ME	11	57	53.0							
				C	12	00	57.0							
F	12	—	—											
	Gotenba	" 3	0	e	11	57	3.0							
				F	12	00	15.0							
	Ômiya	" 3	0	P	11	57	9.0	+ 46	+ 80					
				S	11	57	27.1							
				MN	11	57	59.9							
				ME	11	57	58.8							
				C	11	58	53.2							
F	12	01	—											
86	Numadu	" 3	0	e	11	58	19.0						Ditto.	
				F	12	02	—							



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
	Itô	Mar. 3	0	e F	11	58	45.9					
					12	04	30.0					
87	Numadu	" 3	0	e S MN ME F	12	22	37.0					Ditto.
					12	—	—					
					12	25	4.2		+ 66		2.9	
					12	24	53.9	+ 55			2.9	
					12	30	—					
	Gotenba	" 3	0	e F	12	22	0.0					
					12	24	20.0					
88	Numadu	" 3	0	e S?	12	40	25.8					Ditto.
					12	41	17.1					
89	Numadu	" 3	0	eP S F	12	47	11.4					Ditto.
					12	48	30.4					
					12	53	40.0					
90	Numadu	" 3	0	e S MN ME	15	03	42.0					Ditto.
					15	04	53.5					
					15	05	39.0		± 45		2.5	
					15	05	33.2	± 33			2.5	
	Itô	" 3	0	e F	15	03	55.2					
					15	16	0.0					
	Gotenba	" 3	0	e F	15	03	45.0					
					15	08	50.0					
91	Numadu	" 3	0	e MN ME C F	15	08	—					Ditto.
					15	10	54.8		- 93		2.5	
					15	10	40.0	- 65			2.5	
					15	12	20.0					
					15	20	—					
	Gotenba	" 3	0	e F	15	08	49.0					
					15	15	40.0					
92	Numadu	" 3	0	e S? ME MN C F	15	52	17.2					Ditto.
					15	53	29.5					
					15	54	4.9	± 28			2.9	
					15	54	16.1		± 45		2.9	
					15	55	0.0					
					16	01	—					
	Itô	" 3	0	e F	15	53	13.3					
					15	56	30.0					
	Gotenba	" 3	0	e F	15	52	19.3					
					15	57	—					
93	Numadu	" 3	0	e ME F	16	13	28.7					Ditto.
					16	14	58.2	± 19			1.9	
					16	21	40.0					
	Gotenba	" 3	0	e F	16	13	21.0					
					16	19	30.0					
94	Numadu	" 3	0	e F	17	12	47.5					Ditto.
					17	15	0.0					
95	Numadu	" 3	0	e S ME C F	18	48	55.1					Ditto.
					18	50	12.4					
					18	50	38.2	± 29			1.9	
					18	51	30.0					
					18	57	0.0					
	Gotenba	" 3	0	e F	18	49	5.0					
					18	53	25.0					
96	Numadu	" 3	0	e S? MN ME	19	09	5.7					Ditto.
					19	10	2.9					
					19	10	54.2		- 74		2.9	
					19	10	46.2	+ 55			2.9	



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
				C	19	12	10.0					
				F	19	19	0.0					
	Itô	Mar. 3	0	eP	19	09	37.2					
				eS	19	10	10.7					
				F	19	17	10.0					
97	Numadu	” 3	0	e	19	52	10.4					Ditto.
				S	19	53	22.6					
				MN	19	54	11.8		± 11		2.5	
				C	19	55	—					
				F	20	00	—					
	Gotenba	” 3	0	e	19	52	42.0					
				F	19	57	20.0					
98	Numadu	” 3	0	e	20	21	57.9					Ditto.
				S	20	23	0.0					
				MN	20	23	48.2		± 47		1.9	
				C	20	24	50.0					
				F	20	30	—					
	Gotenba	” 3	0	e	20	22	5.0					
				F	20	27	27.0					
99	Numadu	” 3	0	e	22	22	45.8					Ditto.
				F	22	37	0.0					
100	Numadu	” 3	0	e	23	19	37.6					Ditto.
				F	23	24	—					
101	Numadu	” 4	0	e	6	46	3.8					Ditto.
				S?	6	47	42.1					
				F	6	54	0.0					
102	Numadu	” 4	0	e	7	07	58.2					Ditto.
				F	7	12	0.0					
	Itô	” 4	0	e	7	07	47.1					
				F	7	09	20.0					
103	Numadu	” 4	0	e	10	48	—					Ditto.
				F	10	51	—					
104	Numadu	” 4	0	e	12	41	37.5					Ditto.
				F	12	47	0.0					
	Itô	” 4	0	P	12	41	42.1					
				S	12	42	44.6					
				F	12	45	20.0					
105	Numadu	” 4	0	e	20	29	7.5					Ditto.
				S	20	29	53.0					
				F	20	35	0.0					
	Itô	” 4	0	P	20	29	15.7					
				S	20	30	16.2					
				F	20	32	—					
106	Numadu	” 4	0	e	22	15	23.3					Ditto.
				F	22	22	0.0					
107	Numadu	” 4	0	e	22	24	—					Ditto.
				F	22	29	—					
108	Numadu	” 5	0	e	1	27	50.3					Ditto.
				F	1	32	0.0					
109	Numadu	” 5	0	e	20	49	21.4					Ditto.
				F	20	55	—					
110	Numadu	” 6	0	e	22	46	15.2					The bay of Wakanoura.
				S	22	46	47.5					
				C	22	48	9.5					
				F	22	51	10.0					



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
111	Numadu	Mar. 7	0	e F	13	50	21.5					Neighbourhood of Numadu.
					13	55	—					
112	Numadu	" 7	0	e S F	22	23	13.4					Off to the coast of Sanriku.
					22	24	5.7					
	Gotenba	" 7	0	e F	22	23	18.8					
					22	28	—					
113	Numadu	" 8	0	e S MN ME C F	1	37	12.4					Ditto.
					1	38	17.2					
					1	39	26.1	$\pm 86$	$\pm 104$		1.9	
					1	39	11.9				1.9	
					1	42	10.0					
					1	49	—					
	Gotenba	" 8	0	e F	1	37	19.0					
					1	45	—					
	Ômiya	" 8	0	P S MN ME C F	1	37	35.2?					
					1	38	40.8					
					1	39	35.2	$+ 30$	$+ 50$			
					1	39	25.0					
					1	39	46.5					
					1	42	50.0					
114	Numadu	" 8	0	e F	3	32	5.7					Ditto.
					3	36	—					
	Gotenba	" 8	0	e F	3	32	45.5					
					3	35	30.0					
115	Numadu	" 8	0	e S F	4	23	41.4					?
					4	24	9.4					
					4	29	—					
116	Numadu	" 9	0	e F	3	56	30.5					?
					4	02	0.0					
117	Numadu	" 9	0	e F	6	40	30.0					Kuzyukurihama.
					6	45	—					
118	Numadu	" 11	0	eP iS F	6	23	47.0					Upper valley of the R. Dôsi.
					6	23	49.8					
					6	25	30.0					
119	Numadu	" 11	0	e F	14	26	3.8					Off to the coast of Sanriku,
					14	50	—					
	Gotenba	" 11	0	e F	14	26	2.8					
					14	30	10.0					
120	Numadu	" 11	0	eP PS? S MN ME C F	19	34	47.9					WNW off to Titisima I.,
					19	35	41.1					
					19	36	20.2					
					19	36	39.9					
					19	37	2.0	$\pm 81$	$\pm 112$		1.9	
					19	37	—				1.9	
					19	41	0.0					
					19	50	0.0					
	Itô	" 11	0	P S F	19	34	47.6					
					19	36	18.8					
					19	48	—					
	Gotenba	" 11	0	iP S MN ME C F	19	34	52.0					
					19	36	26.0					
					19	36	35.0					
					19	36	38.0	$- 250$	$- 388$			
					19	39	7.0					
					19	50	10.0					
	Ômiya	" 11	0	P S MN	19	34	31.6					
					19	36	4.5					
					19	36	56.5					



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks				
					G. M. T.			AE	AN	Az	Period					
					h	m	s	$\mu$	$\mu$	$\mu$	s					
121	Numadu	Mar. 12	0	ME	19	36	48.5	+ 40					Off to the coast of Sanriku.			
				C	19	37	50.8									
				F	19	42	14.0									
				eP	5	07	41.0									
				S	5	08	58.1									
				ME	5	09	12.3	± 25			2.0					
	Gotenba	" 12	0	F	5	17	30.0									
				e	5	07	42.0									
	Gotenba	" 12	0	F	5	14	50.0									
				e	5	07	42.0									
122	Numadu	" 13	0	e	7	15	48.9					Kasimanada.				
				S	7	16	19.7									
				MN	7	18	30.0		± 86		1.9					
				ME	7	17	29.1	± 57			1.9					
				C	7	21	20.0									
				F	7	35	—									
	Gotenba	" 13	0	e	7	15	49.0									
				F	7	29	20.0									
123	Numadu	" 14	0	e	13	00	28.5					Off to the coast of Sanriku.				
				F	13	07	—									
124	Numadu	" 15	0	e	17	33	11.6					Ditto.				
				F	17	38	10.0									
125	Numadu	" 16	0	e	9	06	22.5					Dit.o.				
				S	9	06	42.1									
				F	9	14	0.0									
				e	9	06	51.0									
				F	9	10	55.0									
					Gotenba	" 16	0	e	9	06	51.0					
	Gotenba	" 16	0	F	9	10	55.0									
				e	9	06	51.0									
126	Gotenba	" 17	0	e	16	00	59.0					Neighbourhood of Watatn, Simane Pref.				
				F	16	07	48.0									
127	Numadu	" 17	0	e	19	38	52.8					Oceania,				
				F	19	00	—									
				e	19	38	54.0									
				F	19	42	35.0									
					Gotenba	" 17	0	e	19	38	54.0					Neighbourhood of Mindanao I.,
				F	19	42	35.0									
128	Ômiya	" 18	0	P	13	06	8.8					Neighbourhood of Wakayama.				
				S	13	07	4.5									
				MN	13	07	6.5		+ 92							
				ME	13	07	20.1	+ 134								
				C	13	07	39.3									
				F	13	12	—									
129	Numadu	" 18	0	e	15	52	18.7	+ 6	- 10			S off to Hatizyo I.,				
				S	15	52	37.0									
				MN	15	53	4.2		- 165		2.8					
				ME	15	53	7.0	- 136			2.8					
				C	15	56	20.0									
				F	16	06	—									
		Gotenba	" 18	0	iP	15	52	25.0								
					S	15	53	4.0								
					ME	15	53	6.5	- 525							
					MN	15	53	20.5		- 462						
					C	15	55	38.0								
					F	16	01	20.0								
130	Numadu	" 18	0	e	21	26	49.4					Off to the coast of Sanriku.				
				F	21	34	—									
	Gotenba	" 18	0	e	21	27	5.0									
				F	21	32	10.0									
131	Numadu	" 18	0	e	22	22	30.6					Upper valley of the R. Katura.				
				S	22	22	37.1									
				F	22	24	20.0									



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
132	Gotenba	Mar. 18	0	e	22	50	45.0					Off to the coast of Sanriku.
				F	22	54	27.0					
133	Numadu	" 21	0	e	15	55	17.1					Lower valley of the R. Kitakami.
				S	15	55	51.0					
				ME	15	56	14.8					
				F	16	01	—					
	Gotenba	" 21	0	e	15	54	50.0					
				F	15	59	30.0					
134	Numadu	" 21	0	e	17	11	57.1					Off to the cape of Sioya.
				F	17	16	30.0					
	Gotenba	" 21	0	e	17	11	53.0					
				F	17	16	10.0					
135	Numadu	" 22	0	e	16	56	46.6					Kasimanada.
				S	16	57	25.7					
				M <sub>N</sub>	16	58	17.8					
				ME	16	58	12.5	+ 42	+ 55		1.9	
				C	17	01	0.0				1.9	
				F	17	03	50.0					
	Gotenba	" 22	0	e	16	57	47.0					
				F	17	01	58.0					
136	Numadu	" 23	0	e	12	46	38.1					Off to the coast of Sanriku.
				S	12	47	50.3					
				F	12	54	30.0					
	Gotenba	" 23	0	e	12	44	55.0?					
				F	12	48	—					
137	Gotenba	" 25	0	e	0	50	34.0					The cape of Inubo.
				F	0	53	16.0					
138	Numadu	Apr. 1	0	P	16	00	27.1					Off to the coast of Sanriku.
				S	16	00	49.6					
				M <sub>N</sub>	16	02	15.3				1.9	
				ME	16	02	21.6	+ 110	+ 160		1.9	
				F	16	16	0.0					
	Itô	" 1	0	P	16	00	17.3					
				S	16	01	35.3					
				F	16	09	10.0					
				P	16	00	26.7					
				S	16	01	46.0					
	Gotenba	" 1	0	M <sub>N</sub>	16	02	4.0					
				ME	16	02	38.0	+ 150	+ 175			
				C	16	03	57.5					
				F	16	09	—					
				P	16	00	26.7					
139	Numadu	" 1	0	e	22	42	36.4					Ditto.
				F	22	54	—					
	Itô	" 1	0	P	22	42	29.0					
				S	22	43	28.4					
				F	22	49	40.0					
	Gotenba	" 1	0	e	22	42	31.5					
				F	22	49	8.0					
140	Numadu	" 2	0	P	9	52	58.3					The mouth of the R. Kuzi Ibaraki Pref.,
				S	9	53	21.3					
				M <sub>N</sub>	9	54	8.5				2.0	
				ME	9	54	12.5	+ 240	- 330		2.0	
				F	10	03	0.0					
	Itô	" 2	0	P	9	53	7.7					
				S	9	53	30.5					
				F	9	59	11.3					
	Gotenba	" 2	0	iP	9	53	15.0					



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks	
					C. M. T.			AE	AN	Az	Period		
					h	m	s	$\mu$	$\mu$	$\mu$	s		
141	Numadu	Apr. 2	0	S	9	53	38.0	- 300	-	313			Off to the coast of Sanriku.
				MN	9	53	46.8						
				ME	9	53	52.1						
				C	9	55	26.0						
				F	10	00	—						
142	Numadu	" 2	0	P	10	11	32.3					Ditto.	
				S	10	12	20.4						
				F	10	21	—						
143	Numadu	" 3	0	e	1	54	26.2					ESE off to the cape of Sioya.	
				F	2	00	—						
144	Numadu	" 3	0	e	8	11	9.0					Neighbourhood of Tayama, Iwate Pref.,	
				F	8	19	—						
145	Numadu	" 5	0	e	7	37	0.3					The mouth of the R. Kuzi Ibaraki Pref.,	
				F	7	40	30.0						
146	Numadu	" 5	0	e	12	06	19.4					Neighbourhood of Tiba.	
				S	12	06	29.8						
				MN	12	06	53.1						
				C	12	08	25.1						
				F	12	10	50.0						
Itô	" 5	" 5	0	P	12	06	13.5						
				S	12	06	25.7						
				F	12	08	—						
Gotenba	" 5	" 5	0	e	12	06	20.0						
				F	12	08	40.0						
147	Numadu	" 6	0	e	15	13	27.8					Off to the coast of Sanriku.	
				S	15	14	29.4						
				F	15	20	0.0						
Itô	" 6	" 6	0	P?	15	13	34.5						
				S	15	14	19.5						
				F	15	17	10.0						
148	Numadu	" 6	0	e	20	43	0.0					Mt. Tukuba.	
				F	20	45	0.0						
149	Numadu	" 8	0	P	8	50	42.4					Sakai, Ibaraki Pref.,	
				F	8	53	—						
150	Numadu	" 9	0	P	2	47	5.9	+ 480	-	630		Off to the coast of Sanriku.	
				S	2	48	21.9						
				MN	2	48	58.5						
				ME	2	48	57.2						
				C	2	52	14.0						
Ômiya	" 9	" 9	0	P	2	46	58.0	+ 560		?			
				S	2	48	4.7						
				MN	2	48	33.0						
				ME	2	48	30.5						
				C	2	52	8.1						
Gotenba	" 9	" 9	0	P	2	47	4.0?	+ 825	-	700			
				S	2	48	30.0						
				MN	2	48	40.0						
				ME	2	49	46.0						
				C	2	52	14.0						
151	Numadu	" 9	0	P	2	57	49.6					Ditto.	
				S	2	59	0.1						
				MN	2	59	44.0						
				F	3	07	—						
152	Gotenba	" 9	0	e	6	30	41.0					Ditto.	



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
153	Numadu	Apr. 9	0	F	6	33	40.0					Ditto.
				P	10	31	0.1					
				S	10	32	8.1					
				M <sub>N</sub>	10	32	45.0		+ 160		1.9	
				C	10	36	49.0					
	F	10	50	0.0								
	Itô	" 9	0	P	10	31	50.1					
				S	10	32	44.1					
				F	10	38	10.0					
	Gotenba	" 9	0	P	10	31	53.7					
				S	10	33	19.2					
				M <sub>E</sub>	10	33	42.9	- 125				
				M <sub>N</sub>	10	33	59.0		- 175			
				C	10	34	51.2					
	F	10	40	10.0								
Ômiya	" 9	0	P	10	32	5.0						
			S	10	33	20.8						
			M <sub>N</sub>	10	33	32.7		+ 6.0				
			M <sub>E</sub>	10	33	53.6	- 60					
			C	10	34	35.0						
F	10	36	44.6									
154	Ômiya	" 9	0	e	23	52	16.0				Ditto.	
F	23	54	37.0									
155	Numadu	" 14	0	e	5	24	39.6				Upper valley of the R. Katura.	
S	5	24	45.6									
F	5	27	—									
156	Numadu	" 15	0	e	11	10	29.8				Off to the coast of Sanriku.	
S	11	10	42.9									
F	11	16	0.0									
157	Numadu	" 18	0	e	2	57	10.7				Neighbourhood of Yokohama.	
M <sub>N</sub>	2	59	19.0		+ 42		1.0					
C	3	01	3.0									
F	3	10	—									
158	Numadu	" 19	0	e	6	48	55.5				The mouth of the R. Daidakusuikei.	
F	7	40	—									
159	Numadu	" 21	1	P	20	40	27.1				E off to Miyake. I.,	
S	20	40	54.0									
M <sub>N</sub>	20	40	57.8		+ 195		0.9					
M <sub>E</sub>	20	40	59.0			- 150	0.9					
C	20	44	8.0									
F	20	53	—									
Itô	" 21	1	eP	20	41	18.4						
			S	20	41	30.5						
			L	20	41	41.6						
			F	20	48	50.0						
Gotenba	" 21	1	P	20	40	—						
160	Numadu	" 22	0	e	11	54	33.5				Neighbourhood of Kumagaya.	
F	11	55	59.1									
161	Numadu	" 22	0	e	8	53	6.3				The mouth of the R. Niikappu.	
S	8	54	53.4									
F	8	59	30.0									
Itô	" 22	0	P	8	53	18.4						
			S	8	54	57.3						
			F	8	59	50.0						
162	Numadu	" 23	0	e	7	15	3.5				Off to the coast of Sanriku.	
S	7	16	14.6									
M <sub>N</sub>	7	17	14.5		+ 230		2.2					
M <sub>E</sub>	7	17	2.5			+ 330	2.2					
C	7	20	18.0									



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks						
					G. M. T.			AE	AN	Az	Period							
					h	m	s	μ	μ	μ	s							
163	Itô	Apr. 23	0	F	7	45	10.0	+ 450	-1000									
				P	7	16	7.9											
				S	7	16	53.7											
				F	7	17	17.9											
	Gotenba	" 23	0	eP	7	15	6.0											
				S	7	16	20.0											
				MN	7	16	43.0											
				ME	7	18	38.0											
	Numadu	" 23	0	e	8	27	21.6											
				S	8	28	52.1											
				F	8	34	40.0											
Gotenba	" 23	0	e	8	27	38.0												
			F	8	34	30.0												
164	Numadu	" 23	0	e	12	21	18.5					Ditto.						
				S?	12	23	3.2											
				F	12	29	10.0											
Gotenba	" 23	0	e	12	21	35.0												
			F	12	25	50.0												
165	Gotenba	" 25	0	e	1	59	3.0					Ditto.						
				F	2	03	30.0											
166	Numadu	" 28	0	e	7	31	38.2	± 23				Neighbourhood of Kumaſaya.						
				S	7	31	53.5											
				ME	7	32	11.1											
				C	7	32	42.6											
	Itô	" 28	0	eP	7	31	36.4											
				S	7	31	54.6											
	Gotenba	" 28	0	e	7	31	24.5											
				F	7	34	30.0											
	167	Numadu	May. 1	0	e	18	23						16.0					Neighbourhood of Numadu.
					F	18	40						50.0					
168	Numadu	" 1	0	e	19	54	15.0					S off to Itorohu I.,						
				F	20	04	20.0											
	Itô	" 1	0	P	19	54	11.3											
169	Numadu	" 1	0	S	19	56	11.7					Ditto.						
				F	20	03	20.0											
170	Numadu	" 2	0	e	23	16	51.2					Ditto.						
				F	23	26	20.0											
171	Numadu	" 6	0	e	2	20	25.4					N part of Kasimanada.						
				F	2	23	20.0											
172	Numadu	" 7	0	e	21	18	25.2					Ensyunada.						
				F	21	26	50.0											
173	Numadu	" 14	0	e	23	03	6.9					ESE off to the cape of Otiisi.						
				F	23	09	50.0											
174	Numadu	" 15	0	e	6	28	28.5					S off to the cape of Nozima.						
				F	6	33	—											
175	Itô	" 18	I	P	23	49	33.5					Neighbourhood of Takahama, Ibaraki Pref.,						
				S	23	49	52.9											
				C	23	51	13.0											
				F	23	54	—											
175	Itô	" 18	I	P	6	18	17.9					Neighbourhood of Itô.						



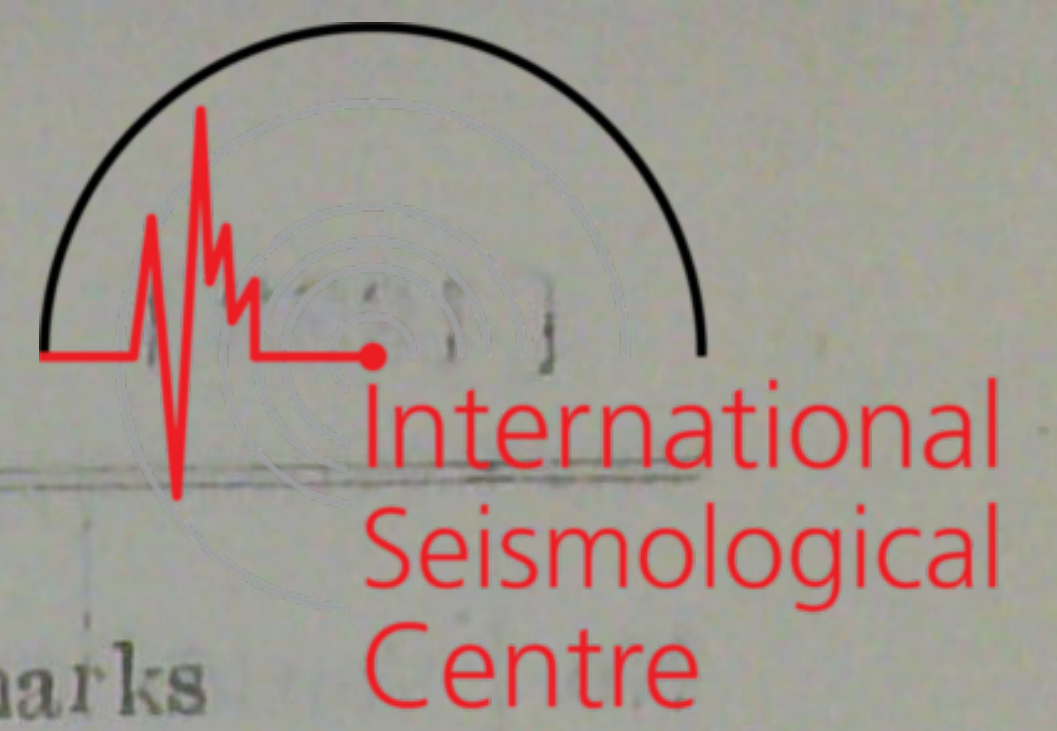
[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks	
					G. M. T.			AE	AN	Az	Period		
					h	m	s	μ	μ	μ	s		
	Itô			S	6	18	19.7						
				F	6	20	20.0						
176	Itô	May. 22	0	P	14	21	20.5						Inba marsh, Tiba Perf.,
				S	14	21	33.0						
				F	14	23	—						
177	Itô	" 22	0	P	15	31	54.3						Off to the coast of Sanriku.
				S	15	32	26.4						
				F	15	34	30.0						
178	Numadu	" 24	0	e	10	39	56.4						E off to Kinkasan I.,
				S?	10	40	44.8						
				ME	10	41	6.8	± 23				2.0	
				F	10	45	50.0						
	Gotenba	" 24	0	e	10	40	0.0						
				F	10	44	—						
	Itô	" 24	0	P	10	39	56.2						
				F	10	46	30.0						
179	Numadu	" 25	0	e	6	52	47.4						Neighbourhood of
				S	6	53	2.0						Sakura, Tiba Perf.,
				ME	6	53	8.0	± 12				2.1	
				F	6	56	30.0						
	Itô	" 25	0	P	6	52	45.7						
				S	6	52	57.5						
				F	6	56	26.4						
180	Numadu	" 25	0	eP	16	40	35.2						NE off to Miyake I.,
				iS	16	40	50.0	+ 18	- 12				
				ME	16	40	50.3	- 18				1.4	
				C	16	42	12.0						
				F	16	44	30.0						
	Itô	" 25	0	P	16	40	33.3						
				S	16	40	42.0						
				F	16	44	40.4						
	Gotenba	" 25	0	e	16	40	37.0						
				F	16	43	—						
181	Numadu	" 27	0	e	0	33	18.6						NE off to Hatizyô I.,
				F	0	37	50.0						
	Itô	" 27	0	eP	0	33	46.5						
				F	0	36	20.0						
182	Itô	" 28	0	P	23	41	6.3						WSW off to Hatizyô I.,
				S	23	41	52.2						
				F	23	43	40.0						
183	Numadu	" 30	III	P	4	14	2.6	- 8	- 8	+ 8			Neighbourhood of Numadu.
				S	4	14	3.9						
				ME	4	14	4.8	- 300				0.4	
				MN	4	14	4.8		+ 375			0.4	
				C	4	14	45.5						
				F	4	16	30.0						
	Gotenba	" 30	I	iP	4	14	6.3						
				S	4	14	9.5						
				F	4	16	40.0						
	Ômiya	" 30	I	P	4	14	5.9						
				S	4	14	9.4						
				MN	4	14	—						
				ME	4	14	—						
				C	4	16	29.0						
				F	4	16	50.0						
	Itô	" 30	I	P	4	14	6.1						
				S	4	14	9.1						
				C	4	14	33.0						



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks	
					G. M. T.			AE	AN	Az	Period		
					h	m	s	μ	μ	μ	s		
184	Itô	June 1	0	F	4	17	50.0						
				P	16	12	32.6						NE off to Hatizyo I.,
				S	16	12	50.2						
				C	16	13	17.8						
				F	16	15	23.1						
185	Numadu	" 2	0	e	3	13	47.2						SW off to the coast of Tiba.
				F	3	15	50.0						
	Itô	" 2	0	P	3	13	43.9						
				F	3	15	40.0						
186	Gotenba	" 2	0	e	7	40	47.0						Miyakonozyô, Miyazaki Pref.
				F	7	50	50.0						
187	Numadu	" 3	0	e	4	26	27.4						W off to the coast of Tiba.
				S	4	26	42.6						
				F	4	30	—						
188	Numadu	" 3	0	e	16	54	47.2						Neighbourhood of Kakioka.
				S	16	55	2.5						
				C	16	56	28.5						
				F	16	59	30.0						
	Gotenba	" 3	0	e	16	54	43.5						
				F	16	57	50.0						
189	Numadu	" 5	0	e	1	52	0.6						Kasimanada.
				S?	1	52	33.7						
				ME	1	53	6.0	± 38			2.0		
				MN	1	52	59.5		± 56		2.0		
				C	1	55	50.0						
				F	1	58	30.0						
	Ômiya	" 5	0	P	1	52	0.4						
				S	1	52	30.4						
				MN	1	52	38.2		+ 21				
				ME	1	52	43.6	+ 20					
				C	1	53	18.4						
				F	1	55	10.0						
	Gotenba	" 5	0	P	1	51	55.0						
				S	1	52	21.0						
				MN	1	52	51.0		- 113				
				ME	1	52	53.4	+ 75					
				C	1	53	29.0						
				F	1	58	10.0						
190	Numadu	" 6	0	e	6	47	8.5						N by W off to Titisima I.,
				F	6	53	0.0						
191	Numadu	" 8	0	e	18	12	27.1						ENE off to the coast of Miyako.
				S	18	12	39.5						
				ME	18	14	51.6						
				F	18	20	20.0						
	Itô	" 8	0	P	18	12	23.8						
				S	18	13	37.1						
				F	18	26	—						
	Gotenba	" 8	0	P	18	12	28.3						
				S	18	13	6.5						
				ME	18	14	34.8	- 75					
				MN	18	15	2.4		- 131				
				C	18	15	8.8						
				F	18	21	50.0						
	Ômiya	" 8	0	P	18	12	28.4?						
				S	18	13	47.0						
				MN	18	13	56.6		+ 10				
				ME	18	13	32.4	- 8					
				C	18	15	42.8						
				F	18	18	50.0						



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence c. m. t.			Amplitude				Remarks
								AE	AN	Az	Period	
192	Itô	June 9	0	P S F	15	24	51.7 54.5 40.0	$\mu$	$\mu$	$\mu$	s	Neighbourhood of Iwai, Ibaraki Pref.,
193	Numadu	" 12	0	e S MN ME C F	21	09	32.4 32.4 48.0 16.5 10.0 30.0	+ 93	$\pm$ 78		2.0 2.0	Neighbourhood of Kesennuma, Miyagi Pref.,
	Itô	" 12	0	P S L F	21	09	32.3 20.0 33.9 17.3					
	Gotenba	" 12	0	eP S MN ME C F	21	09	38.0 21.0 34.0 53.4 24.2 8.0	- 150	+ 175			
	Ômiya	" 12	0	P S MN ME C F	21	09	43.0 43.0 9.6 9.6 0.1 —	- 60	+ 40			
194	Numadu	" 13	0	eP P e MN ME C F	20	35	20.8 47.8 17.9 48.8 27.8 — —	$\pm$ 128	+ 200		2.2 2.2	E (to off) the mouth of the R. Mabu.
	Itô	" 13	0	P S F	20	35	20.1 40.5 30.0					
	Ômiya	" 13	0	P S MN ME C F	20	35	53.0? 7.0 18.0 25.2 0.0 —	+ 120	+ 140			
195	Numadu	" 15	0	e F	7	01	2.9 30.0					N off to Titisima I.,
196	Numadu	" 17	0	e F	1	47	41.4 —					N part of Kasimanada.
197	Numadu	" 18	0	e F	13	12	48.3 —					N off to Titisima I.,
	Itô	" 18	0	P F	13	12	41.4 50.0					
	Gotenba	" 18	0	e F	13	12	50.0 40.0					
198	Numadu	" 18	0	P P PS S MN ME C F	21	38	29.8 51.8 12.9 32.3 18.1 10.1 56.3 —	- 2350	+ 3750		2.2 2.2	E off to Kinkasan I.,
	Itô	" 18	0	P	21	38	39.8					



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence G. M. T.			Amplitude				Remarks	
								AE	AN	Az	Period		
					h	m	s	$\mu$	$\mu$	$\mu$	s		
				S	21	39	28.3						
				M <sub>N</sub>	21	40	9.2		- 485				
				M <sub>E</sub>	21	40	10.9	+ 550					
				F	22	20	—						
	Gotenba	June 18	0	iP	21	38	38.2						
				S	21	39	26.9						
				M <sub>E</sub>	21	39	41.5	>2000					
				M <sub>N</sub>	21	39	41.5		>2000				
				C	21	47	19.0						
				F	22	03	50.0						
	Ômiya	" 18	0	P	21	38	59.0						
				S	21	40	0.0						
				M <sub>N</sub>	21	40	39.5		+1150				
				M <sub>E</sub>	21	40	7.0	+1180					
				C	21	44	15.0						
				F	21	53	—						
199	Numadu	" 19	0	e	5	05	44.2						?
				F	5	07	—						
200	Numadu	" 19	0	e	5	16	14.4						?
				F	5	18	—						
201	Numadu	" 19	0	e	6	19	49.4						E off to Kinkasan I.,
				F	6	22	—						
202	Gotenba	" 23	0	e	3	28	16.0						ESE off to Kinkasan I.,
				F	3	31	26.0						
203	Itô	" 24	0	P	22	03	55.8						Distant earthquake.
				F	23	03	20.0						Sumatora I.,
204	Numadu	" 28	0	e	6	22	19.0						E off to Kinkasan I.,
				S?	6	23	10.8						
				F	6	28	—						
	Itô	" 28	0	e	6	22	12.8						
				F	6	26	40.0						
	Gotenba	" 28	0	e	6	21	40.0						
				F	6	27	10.0						
205	Numadu	July 1	0	e	1	50	50.0						Neighbourhood of Omaesaki.
				F	1	56	—						
206	Numadu	" 2	0	e	16	49	49.0						NE off to the coast of Miyako.
				F	16	56	30.0						
	Gotenba	" 2	0	e	16	49	55.0						
				F	16	53	30.0						
207	Itô	" 3	I	P	0	25	6.8						Neighbourhood of Ito.
				S	0	25	7.9						
				F	0	26	5.6						
208	Numadu	" 4	0	e	17	06	30.4						Numadu.
				F	17	08	40.0						
209	Numadu	" 5	0	e	15	45	40.6						Neighbourhood of
				F	15	50	—						Hatizyo I.,
210	Numadu	" 6	0	iP	1	59	54.8	+ 2	+ 2				N part of the Tokyo Bay.
				iS	2	00	7.4	- 52	- 50				
				M <sub>N</sub>	2	00	20.1		+ 93		1.6		
				M <sub>E</sub>	2	00	14.9	± 50			1.6		
				C	2	03	1.0						
				F	2	07	—						
	Itô	" 6	I	P	1	59	51.4						
				S	2	00	4.0						
				C	2	00	43.9						
				F	2	09	13.4						



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	μ	μ	μ	s	
	Gotenba	July 6	I	iP	1	59	53.0					
				S	2	00	4.0					
				MN	2	00	5.5		- 190			
				ME	2	00	4.0	- 100				
				C	2	00	40.0					
				F	2	05	20.0					
211	Numadu	" 6	0	e	23	59	12.0					Upper valley of the R. Katura.
				S	23	59	19.7					
				F	0	03	—					
212	Numadu	" 8	0	P	7	57	44.0					E off to Miyake I.,
				S	7	58	0.2					
				MN	7	58	5.3		- 94		1.0	
				ME	7	58	5.3	+ 75			1.0	
				C	7	58	18.7					
				F	8	05	30.0					
	Itô	" 8	0	P	7	57	45.1					
				S	7	58	0.6					
				F	8	08	35.1					
	Gotenba	" 8	0	e	7	57	52.0					
				F	8	04	20.0					
213	Numadu	" 9	0	e	1	33	11.5					SE far off to Etorohu I.,
				S	1	35	30.1					
				F	2	19	30.0					
	Itô	" 9	0	P	1	33	29.8					
				F	1	55	40.0					
	Gotenba	" 9	0	e	1	33	12.0					
				F	1	42	5.0					
214	Numadu	" 9	0	e	9	02	31.3					Ditto.
				F	9	07	20.0					
215	Numadu	" 9	0	e	9	51	52.4					Ditto.
				F	10	04	20.0					
	Itô	" 9	0	P	9	51	41.8					
				F	10	02	—					
216	Numadu	" 9	0	e	11	25	49.1					Ditto.
				F	11	30	20.0					
217	Numadu	" 9	0	e	12	33	49.3					Ditto.
				L?	12	37	21.9					
				F	13	36	—					
	Itô	" 9	0	P	12	33	40.5					
				S	12	36	43.0					
				F	13	10	20.0					
	Gotenba	" 9	0	e	12	33	52.0					
				F	12	48	10.0					
218	Numadu	" 9	0	e	13	32	32.6					Ditto.
				F	13	35	50.0					
219	Numadu	" 9	0	e	16	11	—					E off to the cape of Nosyapu.
				F	16	17	30.0					
	Itô	" 9	0	P	16	10	29.9					
				F	16	18	—					
220	Numadu	" 9	0	e	17	57	5.9					Ditto.
				F	18	04	20.0					
221	Numadu	" 9	0	e	22	19	39.6					Ditto.
				F	22	23	20.0					
222	Numadu	" 10	0	e	0	23	5.3	+ 3	+ 3			E off to the coast of Kamaisi.
				MN	0	25	0.1		- 85		2.1	



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks		
					G. M. T.			AE	AN	Az	Period			
					h	m	s	$\mu$	$\mu$	$\mu$	s			
				ME	0	25	1.1	— 104				2.1		
				F	0	49	—							
	Itô	July 10	0	P	0	23	2.9							
				S	0	24	44.4							
				F	0	37	30.0							
	Gotenba	" 10	0	e	0	32	59.0							
				F	0	32	20.0							
223	Itô	" 10	0	P	6	47	46.0						Kasimanada.	
				F	6	52	—							
224	Numadu	" 10	0	e	10	40	3.1						Distant earthquake. Borneo I.,	
				F	10	49	20.0							
225	Numadu	" 10	0	e	18	29	5.6						Kasimanada.	
				F	18	31	50.0							
226	Numadu	" 10	0	e	20	27	37.9						Off to the cape of Innbo.	
				F	20	32	20.0							
	Itô	" 10	0	P	20	27	24.5							
				S	20	27	57.7							
				F	20	33	50.0							
227	Itô	" 11	0	P	6	00	17.3						Off to the coast of	
				S	6	00	39.5						Kuzyukurihama.	
				ME	6	00	47.9	— 85				0.6		
				MN	6	00	49.7		— 73			0.6		
				F	6	—	—							
	Gotenba	" 11	0	e	6	00	30.0							
				F	6	08	10.0							
228	Itô	" 11	0	P	6	08	19.1							
				S	6	08	34.4							
				F	6	15	2.00							
229	Numadu	" 11	0	eP	6	50	34.6						ESE off to the coast of	
				S	6	51	11.0		— 125			1.5	Katoura,	
				ME	6	51	27.9	— 112				1.5		
				MN	6	51	28.7							
				F	6	07	50.0							
	Itô	" 11	0	P	6	50	30.7							
				S	6	50	52.4	— 133				0.6		
				ME	6	51	5.2		— 127			0.6		
				MN	6	51	20.4							
				C	6	57	3.6							
				F	7	09	20.0							
	Gotenba	" 11	0	e	6	50	49.0							
				F	7	05	20.0							
230	Numadu	" 11	0	e	7	17	44.9						Off to the coast of	
				F	7	22	50.0						Kuzyukurihama.	
	Itô	" 11	0	P	7	17	42.3							
				S	7	17	59.0							
231	Itô	" 11	0	P	7	23	10.5							
				F	7	24	40.0							
232	Numadu	" 11	0	e	8	30	20.0						Ditto.	
				F	8	34	20.0							
	Itô	" 11	0	e	8	30	38.3						Off to the coast of Hatizyo I.,	
				F	8	34	10.0							
233	Numadu	" 11	0	e	9	20	24.6							
				F	9	20	40.0							
	Itô	" 11	0	P	9	20	7.5						Off to the coast of	
				S	9	20	37.4						Kuzyukurihama.	
				F	9	27	40.0							
	Gotenba	" 11	0	e	9	20	39.5							
				F	9	25	20.0							



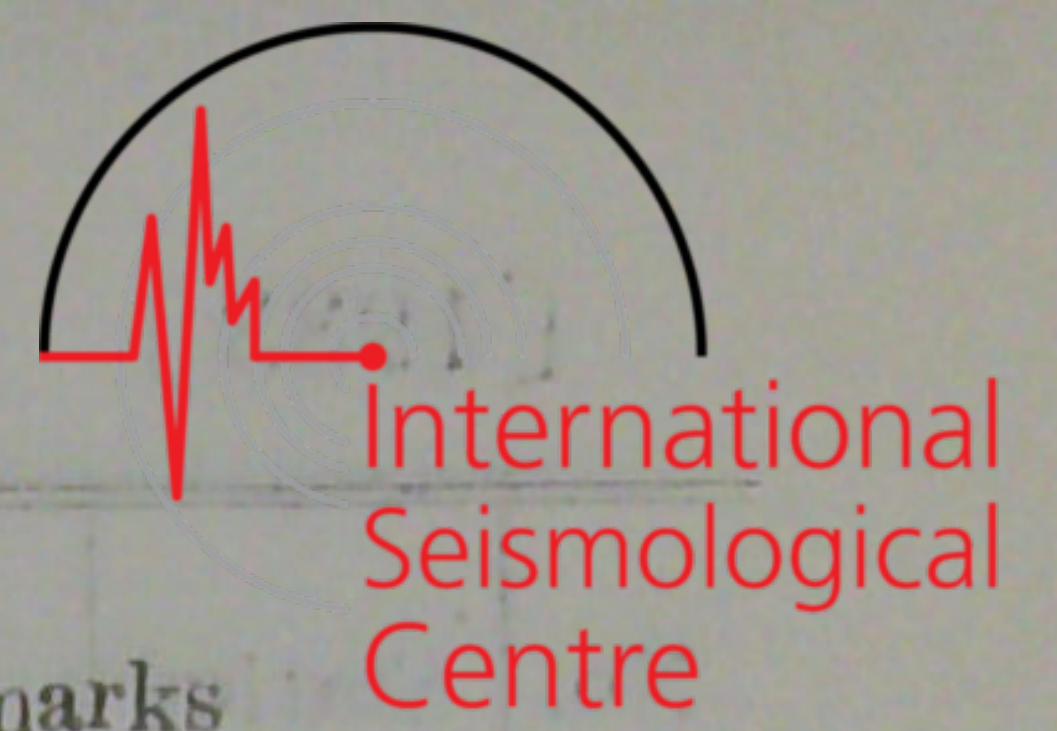
[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	?
234	Numadu	July 11	0	e	21	02	51.3					
				S	21	03	22.9					
				F	21	09	50.0					
Itô	" 11	0	P	21	02	54.5						
			S	21	03	18.5						
			F	21	12	40.0						
Gotenba	" 11	0	e	21	02	50.0						
			F	21	07	40.0						
235	Numadu	" 12	0	e	18	53	50.7					SE off to the cape of Inubo.
				S	18	54	9.8					
				F	19	01	50.0					
Itô	" 12	0	P	18	53	43.8						
			S	18	54	9.1						
			F	19	06	40.0						
236	Numadu	" 13	0	e	3	08	48.0					Mt. Asama.
				F	3	11	20.0					
237	Numadu	" 13	0	e	7	59	27.9					WNW off to Okusiri. I.,
				F	8	09	10.0					
Itô	" 13	0	P	7	59	48.8						
			F	8	10	30.0						
238	Itô	" 13	0	P	10	18	54.9					SE off to the cape of Inubo.,
				F	10	21	10.0					
239	Numadu	" 13	0	e	10	44	26.7					Ditto.
				F	10	49	40.0					
Itô	" 13	0	P	10	44	8.6						
			S	10	44	20.1						
			F	10	50	50.0						
240	Numadu	" 13	0	e	10	51	45.7					Ditto.
				F	10	59	20.0					
Itô	" 13	0	P	10	51	36.3						
			S	10	51	43.5						
			F	10	57	50.0						
241	Numadu	" 14	0	e	6	33	38.3					Kasimanada.
				F	6	39	10.0					
242	Numadu	" 14	0	e	16	05	50.9					Off to the coast of Vladivostok.
				S	16	07	39.3					
				F	16	12	40.0					
Itô	" 14	0	e	16	05	53.4						
			S	16	07	40.8						
			F	16	14	40.0						
243	Numadu	" 15	0	P	3	55	47.6					Valley of the R. Kogai, Ibaraki Pref., 1.5
				S	3	56	6.8					
				ME	3	56	40.3	- 44				
				F	4	01	10.0					
Gotenba	" 15	0	iP	3	56	10.7						
			S	3	56	24.4						
			ME	3	56	29.6	- 70					
			MN	3	56	33.0		- 90				
			C	3	57	12.4						
			F	3	59	10.0						
Itô	" 15	0	P	3	55	53.9						
			S	3	56	8.0						
			F	4	03	40.0						
244	Numadu	" 19	0	e	13	39	36.9					Distant earthquake, Alaska.
				F	13	44	10.0					



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	μ	μ	μ	s	
245	Numadu	July 19	0	e F	15	07	5.8					Ditto.
					15	14	40.0					
246	Numadu	" 20	0	e P Sz MN ME F	23	15	28.3					E off to Kinkasan I.,
					23	15	40.8					
					23	16	38.6					
					23	17	40.2		- 164		2.0	
					23	17	30.0	- 116			2.0	
					23	27	—					
	Itô	" 20	0	P S F	23	15	26.6					
					23	17	27.9					
					23	30	—					
	Gotenba	" 20	0	iP S ME MN C F	23	15	27.5					
					23	16	33.5					
					23	16	50.0	+ 225				
					23	17	16.5		+ 338			
					23	19	33.5					
					23	25	10.0					
247	Numadu	" 21	0	e F	6	33	19.2					Neighbourhood of Numadu.
					6	39	—					
248	Numadu	" 22	0	e F	21	02	54.0					Distant earthquake, the
					21	28	—					Aleutian Is.,
	Itô	" 22	0	e F	21	02	54.8					
					21	30	—					
249	Numadu	" 24	0	e S F	8	40	5.8					S off to the coast of Vladivostok.
					8	41	49.4					
					8	47	—					
	Itô	" 24	0	e S F	8	40	9.1					
					8	41	51.6					
					8	45	40.0					
250	Numadu	" 24	0	e S F	18	00	47.3					Off to the coast of Katunra.
					18	01	3.9					
					18	05	—					
	Itô	" 24	0	P S F	18	00	44.7					
					18	01	0.8					
					18	03	—					
251	Numadu	" 26	0	e F	4	59	24.4					Off to the cape of Inubo.
					5	03	10.0					
252	Numadu	" 26	0	e F	6	41	44.6					Neighbourhood of Mt. Tukuba.
					6	44	—					
253	Numadu	" 28	0	eP eP S MN ME C F	16	44	18.6					Neighbourhood of
					16	44	46.6					Kii channel.
					16	45	8.2					
					16	45	22.8		+ 230		2.0	
					16	45	26.9	+ 126			2.0	
					16	47	53.8					
					16	51	50.0					
	Itô	" 28	0	P S F	16	44	22.4					
					16	44	57.7					
					16	53	20.0					
	Ômiya	" 28	0	P S MN ME C F	16	44	45.0?					
					16	45	24.0					
					16	45	30.0					
					16	45	22.0					
					16	46	3.3					
					16	47	0.0					
	Gotenba	" 28	0	eP S ME MN	16	44	34.0					
					16	45	16.0					
					16	45	40.0	+ 160				
					16	45	56.0		+ 170			



# Seismological Bulletin



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks			
					a.	m.	T.	AE	AN	Az	Period				
					h	m	s	$\mu$	$\mu$	$\mu$	s				
254	Numadu	July 30	0	C	16	46	46.0								
				F	16	51	—								
254	Numadu	July 30	0	e	17	25	7.6								
				F	17	31	50.0								
255	Numadu	" 31	0	e	2	58	6.8								
				F	3	02	20.0							SSE off to Hatizyo I.,	
256	Numadu	" 31	0	P	9	03	2.4								
				S	9	03	16.0							S off to the cape of Nosima.	
				ME	9	03	17.0	- 58				0.8			
				MN	9	03	32.7		+ 44			0.8			
				C	9	04	41.0								
				F	9	07	50.0								
Itô	" 31	0	P	9	02	57.7									
			S	9	03	7.6									
			F	9	09	10.0									
Gotenba	" 31	0	e	9	03	9.0									
			F	9	07	10.0									
257	Numadu	Aug. 6	0	P?	20	54	31.0								
				S	20	54	36.9							Neighbourhood of Numadu.	
				F	20	56	10.0								
258	Numadu	" 7	0	P	0	43	25.6								
				S	0	44	30.6							E off to the coast of Kamaisi.	
				F	0	53	20.0								
259	Numadu	" 9	0	e	9	09	10.5								
				F	9	16	10.0								
260	Numadu	" 15	0	e	2	59	41.6								
				S	3	00	55.1							NNE off to Titisima I.,	
				F	3	09	—								
Itô	" 15	0	P	2	59	39.5									
			S	3	00	57.0									
			F	3	12	45.0									
Gotenba	" 15	0	e	2	59	—									
			F	3	07	—									
261	Numadu	" 15	0	e	19	59	36.5								
				S	19	59	37.1							N part of Suruga Bay.	
				F	20	01	—								
262	Numadu	" 23	0	P	0	31	21.2								
				S	0	31	22.3							Dit.o.	
				F	0	33	10.0								
263	Numadu	" 25	0	e	7	56	48.9								
				S	8	01	23.6							Distant earthquake, Neighbour-	
				L	8	05	36.1							hood of the boundary	
				F	8	48	10.0							between Szechwan Sheng and	
														Kansu Sheng.	
Gotenba	" 25	0	eP	7	56	40.0									
			S	8	06	38.0									
			ME	8	07	18.5	- 180								
			MN	8	07	18.5		275							
			C	8	13	26.5									
Itô	" 25	0	P	7	56	32.8									
			S	8	01	55.0									
			F	8	39	20.0									
264	Itô	" 29	0	P	22	39	34.7								
				F	22	56	50.0							Distant earthquake,	
265	Numadu	" 29	0	e	12	32	22.0								
				S	12	33	3.7								SE off to the mouth of the
				F	12	40	—								R. Abukuma.



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
	Itô	Aug, 29	0	P	12	32	7.6					
				S	12	32	56.4					
				F	12	44	10.0					
	Gotenba	" 29	I	eP	12	32	17.0					
				S	12	32	58.0					
				MN	12	33	1.5		+ 280			
				ME	12	33	13.0	+ 220				
				C	12	34	49.0					
				F	12	41	20.0					
	Ômiya	" 29	0	P	12	32	29.0					
				S	12	33	18.0					
				MN	12	33	54.0	+ 310				
				ME	12	33	18.0		+ 240			
				C	12	34	16.0					
				F	12	38	—					
266	Numadu	" 29	0	e	15	13	0.0					Off to Hatizyo I.,
				F	15	17	30.0					
	Itô	" 29	0	P	15	10	18.0					
				F	15	15	20.0					
267	Numadu	" 29	0	e	22	39	55.5					Nase.
				F	22	48	40.0					
268	Numadu	Sept. 2	0	eP	16	42	39.0	- 1	7			S off to Hatizyo I.,
				eS	16	43	41.5				2.5	
				ME	16	43	52.8	+ 880			2.0	
				MN	16	43	48.3		- 775			
				C	16	52	41.0					
				F	17	08	—					
	Itô	" 2	0	iP	16	42	36.3					
				S	16	43	40.8					
				ME	16	43	46.4	+ 825			6.0	
				MN	16	43	49.8		+ 733		6.0	
				F	16	09	20.0					
	Gotenba	" 2	I	iP	16	42	39.5					
				S	16	43	48.5					
				MN	16	43	52.0		- 1425			
				ME	16	43	51.5	- 1550				
				C	16	49	50.5					
				F	16	59	38.0					
	Ômiya	" 2	0	P	16	42	39.5					
				S	16	43	39.2					
				MN	16	43	40.1		+ 1800			
				ME	16	43	40.1	+ 1020				
				C	16	46	39.8					
				F	16	50	40.0					
269	Numadu	" 6	0	eP	14	05	59.0					SSE off to the coast of Hamamatu.
				eS	14	06	30.6					
				F	14	11	30.0					
	Itô	" 6	0	P	14	05	44.4					
				S	14	06	17.4					
				F	14	10	10.0					
270	Numadu	" 6	0	eP	22	18	39.3					Neighbourhood of the Fiji Is.,
				S?	22	27	1.4					
				F	22	43	0.0					
	Itô	" 6	0	P	22	18	37.9					
				F	22	35	50.0					
271	Numadu	" 9	0	e	5	05	6.0					Neighbourhood of Vladivostok,
				S	5	07	4.6					
				MN	5	07	14.0		± 23		1.5	
				ME	5	07	28.0	± 21			1.5	
				F	5	13	50.0					



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks	
					G.	M.	T.	AE	AN	Az	Period		
					h	m	s	μ	μ	μ	s		
	Itô	Sept. 9	0	P	5	05	5.4						
				S	5	07	12.2						
				F	5	20	0.0						
272	Numadu	" 9	0	e	21	28	21.1					Oceania.	
				F	21	34	20.0						
	Itô	" 9	0	P	21	29	6.7						
				F	21	35	10.0						
273	Numadu	" 10	0	e	2	56	12.6						
				S	2	57	3.4						
				F	3	00	30.0						
	Itô	" 10	0	e	2	56	7.8						
				F	3	03	30.0						
274	Numadu	" 12	0	e	5	07	1.6					E off to the coast of Miyako.	
				S	5	08	10.0						
				MN	5	08	40.5	± 35	± 29		1.2		
				ME	5	08	43.1				1.2		
				C	5	10	9.5						
				F	5	15	20.0						
	Itô	" 12	0	e	5	06	59.7						
				F	5	11	40.0						
	Gotenba	" 12	0	e	5	06	56.0						
				F	5	12	40.0						
275	Numadu	" 14	0	e	6	26	53.7					The cape of Inubo.	
				S	6	27	17.8						
				F	6	32	20.0						
	Itô	" 14	0	e	6	26	53.3						
				F	6	31	50.0						
276	Numadu	" 15	0	e	13	54	28.4					ENE off to Hatizyo I.,	
				S	13	55	1.6						
				MN	13	55	27.2	± 46	± 36		1.7		
				ME	13	55	11.8				1.7		
				C	13	58	—						
				F	14	02	—						
	Itô	" 15	0	P	13	54	24.4						
				S	13	54	56.2						
				F	13	59	30.0						
	Gotenba	" 15	0	e	13	54	26.0						
				F	13	58	50.0						
277	Itô	" 16	0	e	13	02	27.4					Neighbourhood of Ito.	
				F	13	04	10.0						
278	Numadu	" 16	0	e	17	29	42.5					W foot of Mt. Tukuba.	
				S	17	30	6.2						
				F	17	33	20.0						
	Itô	" 16	0	P	17	29	42.7						
				F	17	31	40.0						
279	Numadu	" 17	0	e	4	01	12.4					Neighbourhood of Towada lake, Aomori Pref.,	
				S	4	02	16.3						
				F	4	09	20.0						
	Itô	" 17	0	e	4	01	21.6						
				F	4	06	40.0						
280	Numadu	" 20	0	e	3	57	30.5					Kumanonada.	
				S	3	58	14.8						
				F	4	04	10.0						
	Itô	" 20	0	e	3	57	14.9						
				S	3	58	0.5						
				F	4	01	40.0						



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks	
					G. M. T.			AE	AN	Az	Period		
					h	m	s	μ	μ	μ	s		
281	Gotenba	Sept. 20	0	e	3	57	35.0						
				F	4	02	10.0						
	Numadu	" 21	0	ePN	3	15	9.0					Noto peninsula.	
				ePz	3	15	8.9						
				Pz	3	15	14.4						
				SE	3	15	50.4						
				Sz	3	15	48.5						
				MN	3	16	32.5		- 443		2.5		
				ME	3	16	42.0	- 375			2.5		
				Mz	3	16	6.3			+ 148	2.5		
			C	3	22	40.0							
			F	3	28	10.0							
	Itô	" 21	0	P	3	15	11.5						
				S	3	16	5.3						
				MN	3	16	5.5		- 170		6.0		
				ME	3	16	11.4	- 253			6.0		
				F	3	28	33.0						
	Gotenba	" 21	I	iP	3	15	6.0						
				S	3	15	35.0						
				ME	3	15	50.6	+ 625					
				MN	3	16	3.2		- 687				
				C	3	19	24.0						
	Ômiya	" 21	0	P	3	15	4.0						
				S	3	15	44.7						
				MN	3	15	48.5		+ 1280				
				ME	3	16	19.9	+ 950					
				C	3	19	15.1						
282	Numadu	" 21	0	e	9	49	20.1					SE off to the coast of Miyako.	
				S	9	50	8.8						
				MN	9	51	33.3		- 131		1.9		
				ME	9	50	55.3	+ 91			1.9		
				C	9	56	28.3						
				F	20	02	40.0						
	Itô	" 21	0	P	9	49	15.2						
				S	9	51	0.5						
				F	10	04	60.0						
	Gotenba	" 21	0	eP	9	49	15.8						
			S	9	50	14.2							
			ME	9	50	34.0	+ 225						
			MN	9	50	34.0		- 450					
			C	9	54	10.0							
			F	10	01	20.0							
	Ômiya	" 21	0	P	9	49	12.3?						
				S	9	50	16.9						
				MN	9	51	55.3		+ 64				
				ME	9	50	56.1	+ 95					
				C	9	52	26.8						
283	Numadu	" 21	0	e	13	43	42.4					ESE off to the coast of Miyako.	
				S	13	44	47.3						
				MN	13	46	42.0		- 69		2.1		
				ME	13	45	12.6	- 63			2.1		
				C	13	47	37.8						
				F	13	52	40.0						
	Itô	" 21	0	P	13	43	34.5						
				S	13	44	53.0						
				F	13	50	50.0						
	Gotenba	" 21	0	e	13	43	45.0						
			F	13	50	20.0							
	Ômiya	" 21	0	P	13	44	2.2?						
				S	13	45	19.5						



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks			
					G.	M.	T.	AE	AN	Az	Period				
					h	m	s								
284	Numadu	Sept. 21	0	M <sub>N</sub>	13	45	22.9						Upper valley of the R. Dosi.		
				M <sub>E</sub>	13	45	31.1	+ 25							
				C	13	46	19.5								
				F	13	49	10.0								
	Itô	" 21	0	eP	17	35	37.3								
				S	17	35	43.4								
				M <sub>N</sub>	17	35	43.6				0.2				
				M <sub>E</sub>	17	35	44.9	+ 26			0.2				
	Gotenba	" 21	I	C	17	36	18.0								
				F	17	38	10.0								
				eP	17	35	31.0								
				S	17	35	35.8								
285	Numadu	" 21	0	M <sub>N</sub>	17	35	44.0					E off to Kinkasan I.,			
				M <sub>E</sub>	17	35	47.0	+ 75							
				C	17	36	25.0								
				F	17	37	10.0								
	Itô	" 21	0	P	19	45	1.3								
				S	19	46	9.6								
				M <sub>N</sub>	19	46	46.9				1.4				
				M <sub>E</sub>	19	46	29.4	± 88			1.4				
	Gotenba	" 21	0	C	19	48	24.2								
				F	19	54	10.0								
				P	19	44	46.3								
				S	19	46	6.8								
286	Numadu	" 22	0	F	19	53	0.0					Valley of the R. Dosi.			
				e	19	44	57.0								
				F	19	51	30.0								
				e	1	59	20.0								
	Itô	" 22	0	F	2	02	—								
				e	4	15	22.4								
				S	4	16	21.3								
				F	4	20	30.0								
	287	Numadu	" 22	0	e	4	15	22.4						E off to Kinkasan I.,	
					S	4	16	21.3							
					F	4	20	30.0							
					e	16	07	16.9							
Itô		" 24	0	S	16	08	21.9								
				F	16	13	55.0								
				e	16	07	16.8								
				F	16	10	50.0								
288		Numadu	" 24	0	e	16	07	16.9					SE off to the coast of Miyako.		
					S	16	08	21.9							
					F	16	13	55.0							
					e	18	58	46.5							
	Itô	" 25	0	F	19	06	—								
				e	15	32	16.8								
				S	15	32	18.0								
				F	15	33	0.0								
	289	Numadu	" 25	0	e	18	58	46.5						Distant earthquake.	
					S	15	32	16.8							
					F	15	33	0.0							
					e	4	25	57.4							
Itô		" 25	0	S	4	26	47.9								
				F	4	29	35.0								
				e	11	41	56.2								
				F	11	45	20.0								
290		Numadu	" 26	0	e	11	41	56.2					Off to the coast of Kinkasan I.,		
					S	11	45	20.0							
					F	12	42	21.3							
					e	12	42	21.3							
	Itô	" 29	0	F	12	44	20.0								
				e	2	22	9.4								
				S	2	22	36.3								
				M <sub>N</sub>	2	23	32.1								
	291	Numadu	Oct. 1	0	M <sub>E</sub>	2	23	19.1						Lower valley of the R. Ane, Siga Pref.,	
					C	2	23	19.1	± 31						2.1
					F	2	28	10.0							2.1
					e	2	22	12.0							
Itô		" 1	0	P	2	22	12.0								
				S	2	22	12.0								
				F	2	26	20.0								
				e	2	26	20.0								



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks	
					G. M. T.			AE	AN	Az	Period		
					h	m	s	$\mu$	$\mu$	$\mu$	s		
	Gotenba	Oct. 1	0	e F	2	22	8.0						
					2	27	30.0						
	Ômiya	" 1	0	P S MN ME C F	2	22	8.8						
					2	22	35.6						
					2	23	5.3		+ 15				
					2	23	58.1	+ 10					
					2	25	10.0						
					2	28	10.0						
295	Numadu	" 1	0	e F	3	03	25.9						E off to the coast of Miyako.
					3	08	10.0						
296	Itô	" 1	0	e F	7	22	5.8						Neighbourhood of Ito.
					7	22	30.0						
297	Numadu	" 1	0	e P S MN ME C F	14	35	50.9						Kasimanada.
					14	36	13.0						
					14	36	32.6						
					14	37	14.0			± 84		2.1	
					14	36	43.5	± 62				2.1	
					14	40	20.0						
					14	42	50.0						
	Itô	" 1	0	P S F	14	35	51.4						
					14	36	39.6						
					14	45	40.0						
	Gotenba	" 1	0	iP S ME MN C F	14	35	56.5						
					14	36	38.0						
					14	36	41.0	+ 70					
					14	36	41.0		+ 113				
					14	38	33.0						
					14	42	30.0						
	Ômiya	" 1	0	P S MN ME C F	14	35	—						
					14	36	40.5						
					14	—	—						
					14	—	—						
					14	—	—						
					14	—	—						
298	Numadu	" 2	0	e S F	3	34	0.9						Kasimanada.
					3	34	48.9						
					3	39	20.0						
	Itô	" 2	0	e S F	3	33	57.3						
					3	34	31.6						
					3	37	28.6						
	Gotenba	" 2	0	e F	3	34	5.0						
					3	38	30.0						
299	Itô	" 2	0	e F	22	44	24.5						Lower valley of the R. Kinu.
					22	45	26.7						
300	Numadu	" 3	0	ePH PZ PE SE SN ME MN Mz C F	18	39	29.2	?	- 10	+ 9			Middle part of Niigata Pref.,
					18	39	28.3						
					18	39	32.9						
					18	40	1.1						
					18	40	1.0						
					18	40	23.5	- 600				1.4	
					18	40	15.6		- 511			1.4	
					18	40	31.0			+ 273		1.8	
					18	44	49.5						
					19	02	20.0						
	Itô	" 3	0	P S NN ME F	18	39	32.8						
					18	40	4.2						
					18	40	12.0						
					18	40	17.9						
					18	57	40.0						
	Gotenba	" 3	0	iP S	18	39	28.0						
					18	39	54.0						



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks									
					G. M. T.			AE	AN	Az	Period										
					h	m	s	$\mu$	$\mu$	$\mu$	s										
301	Ômiya	" 3	0	MN	18	40	10.0	- 783	- 410				SE off to the cape of Inubo.								
				ME	18	40	49.5														
				C	18	44	58.0														
				F	18	54	40.0														
				P	18	39	32.0														
				S	18	39	57.4														
				MN	18	40	43.5														
	Numadu	" 7	0	ME	18	40	4.0	+ 865	+ 50.0												
				C	18	43	52.6														
				F	18	46	50.0														
				e	7	40	29.9														
				S	7	41	10.9														
				F	7	46	50.0														
				Itô	" 7	0	e							7	40	54.1					
S	7	41	22.0																		
F	7	44	55.1																		
e	7	40	59.5																		
F	7	45	30.0																		
302	Numadu	" 9	II				iP	12	06	39.7	- 2	- 9	+ 13			Neighbourhood of Yamanaka Lake.					
				S	12	06	45.1														
				MN	12	06	48.2														
				ME	12	06	49.8	- 950	+ 442								0.9				
				Mz	12	06	56.0											+ 885	0.9		
				C	12	09	28.1														
				F	12	16	30.0														
	Itô	" 9	I	P	12	06	39.4				+ 575				6.0						
				S	12	06	46.0														
				ME	12	06	53.8														
				MN	12	06	57.0	+ 497		6.0											
				F	12	13	55.0														
				Gotenba	" 9	III	iP										12	06	38.5		
	C	12	10				1.5														
F	12	13	20.0																		
Ômiya	" 9	III	P	12	06	38.2	+ 660				+ 825										
			S	12	06	45.0															
			MN	12	06	47.3															
			ME	12	06	45.0															
			C	12	08	32.0															
			F	12	12	20.0															
303	Numadu	" 9	I	iP	12	08	23.0	± 270				0.9	Upper valley of the R. Dosi.								
				S	12	08	28.2														
				ME?	12	08	28.7														
304	Numadu	" 11	0	e	13	58	45.5	± 64	± 64				E off to Kinkasan I.,								
				S?	13	59	26.4														
				MN	14	00	18.0														
				ME	14	00	13.5														
				C	14	01	46.0														
				F	14	07	30.0														
				Itô	" 11	0	P							13	58	42.3					
	S	13	59				27.7														
	F	14	06				20.0														
	Gotenba	" 11	0				eP	13	58	46.0	- 50	- 65									
							S	13	59	34.0											
							MN	13	59	48.5											
							ME	13	59	54.0											
				C	14	00	53.0														
F				14	03	50.0															
305	Numadu	" 14	0	e	4	27	3.8					S off to the cape of Nosima.									
				F	4	30	20.0														
306	Numadu	" 14	0	e	22	27	20.5					Distant earthquake.									
				F	22	30	50.0														



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
307	Numadu	Oct. 14	0	e F	12	51	21.5					N off to Titisima I.,
					12	52	50.0					
308	Numadu	" 15	0	e S? F	16	28	32.3					Neighbourhood of Tiba.
					16	28	40.7					
					16	31	40.0					
309	Numadu	" 16	0	e F	12	44	38.5					NE off to Miyake I.,
					12	46	30.0					
310	Numadu	" 16	0	e F	22	01	4.7					Kasimanada.
					22	03	40.0					
311	Numadu	" 19	0	eP S MN F	17	23	29.4				2	W off to Idu Osima I.,
					17	23	38.4					
					17	24	45.5		$\pm$ 32		2.2	
					17	30	20.0					
	Itô	" 19	I	iP S C F	17	23	29.4?					
					17	23	34.7?					
					17	24	10.1					
					17	28	30.0					
	Gotenba	" 19	0	e F	17	23	31.4					
					17	26	50.0					
	Ômiya	" 19	0	P S MN ME C F	17	23	29.4					
					17	23	40.9					
					17	23	57.9		+ 16			
					17	23	45.6	- 30				
					17	24	6.6					
					17	27	50.0					
312	Numadu	" 19	0	P̄ iPz S MN ME C F	17	31	27.5				13	Ditto.
					17	31	27.5					
					17	31	37.9					
					17	31	59.8		$\pm$ 39		2.2	
					17	31	39.0	+ 39			2.2	
					17	35	20.0					
					17	40	30.0					
	Itô	" 19	I	P S C F	17	31	27.5?					
					17	31	35.2?					
					17	32	37.5					
					17	36	30.0					
	Gotenba	" 19	0	e F	17	31	29.0					
					17	36	37.0					
	Ômiya	" 19	0	P S MN ME C F	17	31	34.1					
					17	31	45.6					
					17	31	53.7		+ 10			
					17	31	52.6	+ 15				
					17	32	20.3					
					17	36	0.0					
313	Numadu	" 21	0	eP eS MN ME C F	2	45	3.1					SE off to the cape of Nosima.
					2	45	35.1					
					2	47	19.0		$\pm$ 84			
					2	46	48.0	$\pm$ 102				
					2	50	47.0					
					3	00	20.0					
	Itô	" 21	0	e S F	2	44	59.4					
					2	46	52.1					
					3	01	30.0					
	Gotenba	" 21	0	iP S MN ME C F	2	45	6.0					
					2	45	34.0					
					2	46	23.3					
					2	48	4.7					
					2	51	39.0					
					2	57	10.0					
314	Gotenba	" 23	0	e F	0	42	40.0					E off to the coast of Miyako.
					0	49	20.0					



[1933]



No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks	
					G.	M.	T.	AE	AN	Az	Period		
					h	m	s	$\mu$	$\mu$	$\mu$	s		
315	Numadu	Oct. 24	0	e F	18	14	45.9 10.0					ESE far off to the cape of Inubo.	
316	Numadu	" 24	0	e S C F	19	30	13.1 17.0 10.0 30.0					E part of the Bay of Sagami.	
	Itô	" 24	0	P F	19	30	5.5 20.0						
	Gotenba	" 24	0	e F	19	30	5.6 45.0						
317	Numadu	" 25	0	e F	23	47	55.6 0.0					Distant earthquake.	
318	Numadu	" 29	0	e F	0	14	31.9 10.0					Neighbourhood of Numadu.	
319	Numadu	Nov. 1	0	P P? S MN ME Mz F	8	22	21.0 31.6 42.8 38.4 28.4 6.5 30.0	+ 112	- 100		2.1 2.1 2.1	N part of Kuzyukurihama.	
	Itô	" 1	0	P S F	8	22	22.7 53.5 20.0						
	Gotenba	" 1	0	eP S MN ME C F	8	22	31.0 41.0 48.7 4.1 22.7 —	+ 200	+ 90				
320	Numadu	" 1	0	e F	10	34	44.7 30.0					Ditto.	
	Itô	" 1	0	P F	10	34	40.3 30.0						
321	Numadu	" 1	0	e S? F	18	14	24.7 35.1 0.0					The Uruga Straits.	
	Itô	" 1	0	P S F	18	14	26.0 31.6 50.0						
	Gotenba	" 1	I	e F	18	14	27.0 50.0						
322	Numadu	" 2	0	e F	2	25	24.8 0.0					NW part of Totigi Pref.,	
323	Numadu	" 2	0	e F	12	34	6.3 0.0					Distant earthquake.	
324	Numadu	" 3	0	e F	5	47	40.1 0.0					Neighbourhood of Itinomiya, Tiba Pref.,	
325	Numadu	" 3	0	e F	10	52	52.4 0.0					SE off to Katsuma.	
	Itô	" 3	0	eF S F	10	52	32.3 48.9 50.0						
326	Numadu	" 5	0	e S? F	17	17	58.3 2.5 50.0					NW off to Hatidyo I.,	



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
	Itô	Nov. 5	0	P F	17	17	49.1 44.3					
327	Itô	" 6	0	P S F	9	53	47.5 53.7 40.0					Off to Katuura.
328	Numadu	" 6	0	e F	14	21	1.4 50.0					Off to Kuzyukurihama.
	Itô	" 6	0	P S F	14	20	52.4 5.6 20.0					
	Gotenba	" 6	0	e F	14	21	4.0 20.0					
329	Numadu	" 6	0	e F	15	16	59.1 50.0					Ditto.
	Itô	" 6	0	P S F	15	16	41.5 54.7 33.8					
	Gotenba	" 6	0	e F	15	17	0.5 50.0					
330	Numadu	" 6	0	e ME F	15	20	41.3 21.5 —	$\pm$ 27		2.1		Ditto.
	Itô	" 6	0	P S F	15	20	37.7 52.1 30.0					
	Gotenba	" 6	0	e F	15	20	53.5 0.0					
331	Numadu	" 6	0	e S F	15	56	55.2 1.7 —					Mt. Tanzawa.
	Itô	" 6	0	P S MN ME F	15	56	50.9 57.3 58.8 2.7 40.0	$+$ 73	$+$ 38		6.0 6.0	
	Gotenba	" 6	I	e F	15	57	0.5 40.0					
	Ômiya	" 6	I	P S MN ME C F	15	56	55.0 7.9 8.9 8.9 23.0 50.0	$+$ 12	$+$ 16			
332	Numadu	" 6	0	e S? F	17	53	11.8 31.8 50.0					Off to Kuzyukurihama.
	Itô	" 6	0	P S F	17	53	0.2 15.1 40.0					
	Gotenba	" 6	0	e F	17	52	54.0 10.0					
333	Numadu	" 7	0	e F	1	41	9.1 20.0					Ditto.
	Itô	" 7	0	e S	1	41	8.0 21.3					



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks	
					G.	M.	T.	AE	AN	Az	Period		
					h	m	s	$\mu$	$\mu$	$\mu$	s		
	Gotenba	Nov. 7	0	e F	1	41	18.0						
					1	46	0.0						
334	Itô	" 7	0	S F	1	43	25.5						Ditto.
					1	45	58.0						
335	Gotenba	" 7	0	e F	6	44	3.9						Distant earthquake.
					6	48	50.0						
336	Numadu	" 7	0	e S? MN ME F	16	59	31.7						Middle part of Kuzynkurihama.
					16	59	53.3						
					17	00	19.9						
					17	00	23.1	± 44	+ 75			2.1	
					17	03	50.0					2.1	
	Itô	" 7	0	P S F	16	59	28.8						
					16	59	42.7						
					17	03	10.0						
	Gotenba	" 7	0	e F	16	59	28.5						
					17	03	57.0						
	Ômiya	" 7	0	P S MN ME C F	16	59	44.8						
					16	59	55.9						
					17	01	25.6						
					17	01	34.6	- 24	+ 20				
					17	02	1.0						
					17	03	13.0						
337	Itô	" 7	0	P F	17	07	0.6						Ditto.
					17	09	40.0						
338	Numadu	" 8	0	e F	5	45	54.6						ESE off to the cape of Siriya.
					5	50	50.0						
	Itô	" 8	0	e F	5	45	52.2						
					5	49	10.0						
339	Numadu	" 8	0	eP iS MN C F	15	00	32.1						Upper valley of the R. Dosi.
					15	00	38.1	- 18	+ 5				
					15	00	40.6		± 19			1.5	
					15	01	5.4						
					15	03	—						
	Itô	" 8	0	P F	15	00	32.3						
					15	02	15.0						
	Gotenba	" 8	I	e F	15	00	35.0						
					15	02	50.0						
340	Numadu	" 8	0	e F	17	39	10.4						Neighbourhood of Mitake, Gihu Pref.,
					17	42	20.0						
		" 8	0	e F	17	39	14.9						
					17	41	30.0						
341	Numadu	" 11	0	eP iS ME MN C F	9	32	57.9						SE off to the cape of Nozima.
					9	33	30.8	- 28	+ 19				
					9	33	31.6	+ 69				1.5	
					9	33	35.6		± 28			1.5	
					9	34	4.5						
					9	37	50.0						
	Itô	" 11	0	P S F	9	33	7.5						
					9	33	26.1						
					9	36	0.0						
	Gotenba	" 11	0	e F	9	33	15.0						
					9	35	30.0						
342	Numadu	" 11	0	e S F	13	29	47.0						Ditto.
					13	30	12.3						
					13	32	10.0						
343	Numadu	" 11	0	e	22	15	16.4						Mt. Asama.



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
344	Numadu	Nov. 16	0	e	13	58	18.6					S part of Sima Peninsula.
				S	13	58	58.7					
				F	14	02	20.0					
345	Numadu	" 19	0	e	1	34	27.1					SW off to Hatidyo I.,
				S	1	35	4.9					
				F	1	39	0.0					
346	Itô	" 20	0	e	22	52	48.4					?
				F	23	55	0.0					
347	Numadu	" 20	0	e	23	32	48.6					Distant earthquake.
				S?	23	41	20.0					
				L?	23	57	50.8					
				F	1	14	20.0					
	Gotenba	" 20	0	e	23	32	47.0					
				F	0	15	58.0					
348	Numadu	" 23	0	e	4	58	29.4					Neighbourhood of Tokamati, NiiGata Pref.
				F	5	03	20.0					
349	Numadu	" 27	0	e	7	50	45.8					Kasimanada.
				S	7	51	12.8					
				M <sub>N</sub>	7	51	39.8					
				C	7	52	59.8					
				F	7	56	40.0					
	Itô	" 27	0	e	7	50	39.1					
				F	7	54	20.0					
	Gotenba	" 27	0	e	7	50	41.0					
				F	7	55	11.0					
350	Numadu	" 27	0	e	10	35	45.3					S off to the cape of Nozima.
				F	10	38	20.0					
351	Numadu	" 27	0	e	19	15	57.6					E off to the coast of Miyako.
				S?	19	17	1.2					
				M <sub>N</sub>	19	17	32.4					
				M <sub>E</sub>	19	17	50.5					
				C	19	20	16.5					
				F	19	26	—					
	Itô	" 27	0	e	19	15	49.6					
				F	19	20	50.0					
	Gotenba	" 27	0	e	19	16	4.6					
				F	19	20	56.0					
352	Numadu	" 29	0	e	1	17	25.9					The cape of Inubo.
				F	1	20	50.0					
353	Numadu	Dec. 4	0	PH	19	36	37.0					E off to the Soya Straits.
				Pz	19	36	34.7					
				S	19	38	51.9					
				M <sub>N</sub>	19	39	14.0				2.0	
				M <sub>E</sub>	19	39	21.9	- 267	- 221		2.0	
				C	19	43	8.1					
				F	19	59	50.0					
	Itô	" 4	0	iP	19	36	37.6					
				S	19	38	50.7					
				M <sub>N</sub>	19	38	53.9				6.0	
				M <sub>E</sub>	19	39	1.1	- 120	+ 117		6.0	
				F	19	52	17.0					
354	Itô	" 6	0	P	7	43	31.8					Neighbourhood of Ito.
				S	7	43	35.0					
				F	7	44	5.0					
355	Numadu	" 6	0	eP	19	21	29.7					S off to the cape of Sioya.
				S	19	22	1.6					
				F	19	26	30.0					
	Itô	" 6	0	P	19	21	25.2					
				S	19	21	59.6					
				F	19	24	59.0					



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No.	Station	Date	Intensity	Phase	Time of occurrence			Amplitude				Remarks
					G. M. T.			AE	AN	Az	Period	
					h	m	s	$\mu$	$\mu$	$\mu$	s	
	Gotenba	Dec. 6	0	e F	19	21	35.5 5.0					
356	Numadu	" 7	III	ePz	18	35	25.5	+1720	-1320	+154?	2.3 2.3 1.2	Neighbourhood of Odawara.
				PE	18	35	25.6					
				S	18	35	29.4					
				MN	18	35	40.2					
				ME	18	35	39.3					
				Mz	18	35	55.2					
				C F	18 18	37 44	24.5 0.0					
Itô	" 7	III	iP	18	35	25.6						
			S	18	35	28.4						
			ME	18	36	8.4						
			MN	18	36	13.4						
			C	18	37	5.9						
			F	18	44	23.4						
Gotenba	" 7	III	iP	18	35	28.5	+1500	+1740				
			S	18	35	31.5						
			ME	18	35	35.5						
			MN	18	35	38.5						
			C F	18 18	37 47	50.5 30.0						
Ômiya	" 7	III	iP	18	35	29.9	-145	-211		2.4 2.4		
			S	18	35	36.3						
			MN	18	35	49.1						
			ME	18	35	37.0						
			F	18	45	0.0						
357	Numadu	" 8	0	e F	4 5	59 04	22.0 40.0					Neighbourhood of Hatidyo I.,
358	Numadu	" 8	0	e	6	32	44.6					Neighbourhood of Mt. Hakone.
				F	6	34	15.0					
	Itô	" 8	0	eP S F	6 6 6	32 32 34	37.9 41.4 4.0					
359	Itô	" 9	0	e F	16 16	00 01	46.6 24.0					The Tokyo Bay.
360	Itô	" 10	0	e F	14 14	15 18	53.5 23.0					Neighbourhood of Kinkasan I.
361	Itô	" 11	0	P F	17 17	02 04	57.5 47.0					Neighbourhood of the mouth of the R. Naka.
362	Numadu	" 12	0	e F	17 17	03 05	1.6 50.0					Neighbourhood of Numadu.
363	Itô	" 13	0	e F	15 15	05 06	43.1 30.0					Neighbourhood of Ito.
364	Numadu	" 17	0	e	0	54	45.4					Off to the coast of Kuzyukurihama.
				S?	0	55	23.0					
				F	0	59	10.0					
	Itô	" 17	0	P S F	0 0 0	54 54 57	41.0 52.5 35.0					
	Gotenba	" 17	0	e F	0 0	54 58	56.5 45.5					
365	Numadu	" 19	0	e	17	43	29.0					SE off to Kinkasan I.,
				F	17	48	0.0					
	Itô	" 19	0	e F	17 17	42 45	53.8 6.2					
	Gotenba	" 19	0	e	17	43	39.0					



[1933]

No.	Station	Date	Intensity	Phase	Time of occurrence G. M. T.			Amplitude				Remarks	
								AE	AN	Az	Period		
					h	m	s	$\mu$	$\mu$	$\mu$	s		
366	Numadu	Dec. 21	0	F	17	45	58.4					NW off to Titisima I.,	
				e	23	10	40.0						
	F	23	16	50.0									
	Itô	" 21	0	e	23	10	30.4						
				F	23	13	30.0						
367	Itô	" 22	0	P	18	10	42.0					E off to Idu Niizima I.,	
				F	18	12	46.0						
368	Itô	" 23	0	P	13	21	54.9					Mouth of the R. Edo.	
				F	13	22	48.0						
369	Numadu	" 24	0	e	0	01	43.6					NE off to Hatidyo I.,	
				F	0	03	30.0						
	Itô	" 24	0	e	0	01	15.4						
				S	0	01	41.4						
				F	0	03	20.0						
370	Itô	" 24	0	e	1	34	39.3					Neighbourhood of Ito.	
				S	1	34	41.3						
				F	1	35	16.0						
371	Numadu	" 26	0	e	14	34	46.4					Neighbourhood of Mt. Hakone.	
				F	14	36	10.0						
	Gotenba	" 26	0	e	14	34	44.0						
				F	14	36	10.0						
372	Numadu	" 28	0	e	14	51	5.4					Kasimanada.	
				S	14	51	40.7						
				F	14	54	30.0						
	Gotenba	" 28	0	e	14	51	9.0						
				F	14	53	47.0						
373	Itô	" 31	0	eP	3	00	13.1					Neighbourhood of Tyosi.	
				F	3	01	43.8						
374	Numadu	" 31	0	e	12	45	58.5					SSE off to Hatizyo I.,	
				S	12	46	58.9						
				F	12	50	40.0						
	Itô	" 31	0	eP	12	45	59.3						
				F	12	49	6.0						

(THE END)



昭和九年三月二十五日印刷

昭和九年三月二十七日發行

發行所 靜岡縣沼津測候所

沼津市鴨町一八四番地

印刷所 藤井印刷所

沼津市鴨町一八四番地

印刷人 小池清五