昭和三年三月二十日印刷
昭和三年三月二十五日發行

神戸市中山手通七丁目
神戸測候所

印刷者 神戸市楠町三丁目一一番屋敷
網干種吉

印刷所 神戸市楠町三丁目一一五ノ六
網干製版印刷所

SEISMOLOGICAL BULLETIN

OF THE

IMPERIAL MARINE OBSERVATORY

AND

KOBE METEOROLOGICAL OBSERVATORY.

KOBE, JAPAN.

VOL. III. No. 1.

From January 1, 1927 to March 6, 1927.

KOBE

June 1927.

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From No. 1. to No. 19. 1927.

KÔBE JAPAN.

SEISMOLOGICAL BULLETIN

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 (Horizontal Pendulum.)

	T_0	ε	$\frac{r}{T_0^2}$	V
A_N:	20		0.003	20.0
A_E:	20		0.008	20.0
A_E:	25		0.001	42.7

Wiechert Seismograph (Horizontal & Vertical)

	T_0	ε	$\frac{r}{T_0^2}$	V
A_N:	5.1	Aperiodic	0.004	80
A_E:	5.2	,,	0.004	80
A_Z:	4.1	,,	0.006	80

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1	Jan. 7	M_E	22 13 34		±8				Faint record.
		M_N	22 13 34	2.0		±20			In Kasima-nada.
		F_E	22 17 ±						
		F_N	22 17 ±						
2	Jan. 14	eP	8 36 46					648	Ditto.
		eL	8 38 11						
		M_E	8 38 28	1.5	±9				
		M_1N	8 38 30	1.8		±19			
		M_2E	8 38 41	2.1		±13			
		eF_E	8 42 30						
		eF_N	8 42 30						
3	Jan. 15	P	14 32 13		+15	−36	+39	356	Far northern off Kyōgasaki. Strong or moderate shock near epicenter.
		$\bar{P}$	14 32 14	1.7		±88			
		L	14 32 56						
		M_1E	14 32 59	2.2	±70				
		M_1N	14 32 58	2.7		±279			
		M_1Z	14 32 59	2.4			±45		
		M_2E	14 34 23	2.4	±65				
		M_2N	14 34 20	2.1		±50			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_2Z	14 34 19	2.4			±29		
		C_E	14 36 46	2.8	±23				
		C_N	14 37 21	2.6		±23			
		F_E	14 41 ±						
		F_N	14 41 ±						
		F_Z	14 41 ±						
4	Jan. 17	P	21 59 57					750	Eastern off Kinkazan, Miyagi prefecture.
		S	22 01 06						
		L	22 01 35						
		M_1E	22 02 09	2.7	±114				
		M_1N	22 02 04	2.9		±75			
		M_1Z	22 01 51	3.6			±66		
		M_2E	22 03 03	3.3	±100				
		M_2N	22 03 57	3.4		±88			
		M_2Z	22 03 57	3.5			±31		
		F_E	22 11 ±						
		F_N	22 11 ±						
		F_Z	22 09 ±						
5	Jan. 19	P	13 24 00					60	In the Kii channel.
		L	13 24 09						
		M_E	13 24 11	0.9	±31				
		M_N	13 24 11	0.9		±48			
		F_E	13 25 ±						
		F_N	13 25 ±						
6	Jan. 24	M_E	4 08 37	0.9	±9				No record on the vertical component.
		M_N	4 08 38	0.9		±6			
		F_E	4 09 ±						
		F_N	4 09 ±						
7	Jan. 31	P	3 44 02					139	Near the mouth of Ibi river, Gifu prefecture.
		L	3 44 21						
		M_E	3 44 21	0.9	±14				
		M_N	3 44 27	0.9		±11			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F_E	3 47 ±						
		F_N	3 47 ±						
8	Feb. 1	eP	18 04 13						The trace of a distant earthquake.
		M_E	18 19 39		±1				
		M_N	18 19 25	25.1		±3			
		F_E	18 22 ±						
		F_N	18 28 ±						
9	Feb. 3	eP	3 53 08						The beginning of the P phase was not clear. Origin in the course of Yangtsu-kiang.
		L	3 59 34						
		M_E	3 59 59	2.5	±46				
		M_N	3 59 53	3.7		±70			
		M_Z	3 59 59	2.5			±25		
		F_E	4 13 ±						
		F_N	4 13 ±						
		F_Z	4 10 ±						
10	Feb. 3	eP	4 53 15						Ditto.
		L	4 58 30						
		M_E	4 59 14	2.6	±21				
		M_N	4 59 10	3.3		±61			
		M_Z	4 59 10	2.6			±13		
		F_E	5 11 ±						
		F_N	5 11 ±						
		F_Z	5 06 ±						
11	Feb. 4	M_E	3 00 56	2.0	±4				Trace only.
		M_N	3 01 12	3.0		±6			
		F_E	3 05 ±						
		F_N	3 06 ±						
12	Feb. 16	P	1 39 36					3450	Flat wave form. SE off Kamchatka.
		S	1 43 05						
		L	1 46 32						
		M_1E	1 48 48	16.6	±2400				

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_N	1 48 32	20.1		±2100			
		M_2E	1 50 09	14.9	±2100				
13	Feb. 16	P	3 00 45						Ditto.
		S	3 04 11						
		L	3 07 56						
		M_1N	3 08 42	16.3		±19			
		M_2N	3 18 16	15.6		±23			
		M_2Z	3 20 14	15.0			±13		
		M_3N	3 21 55	14.1		±50			
		F_N	4 05 ±						
		F_Z	3 35 ±						
14	Feb. 18	eP	12 12 35						Upper course of Ono river, Bingo district.
		L	12 13 19						
		M_E	12 13 27	0.6	±10				
		M_N	12 13 20	1.3		±8			
		F_E	12 15 ±						
		eF_N	12 15 30						
15	Feb. 18	M_N	23 04 07	1.8		±8			Trace of a distant earthquake.
		F_N	23 06 20						
16	Feb. 20	eP	22 56 34						In the course of Maruyama river. The record of the first motion was not clear.
		L	22 56 39						
		M_E	22 56 39		±25				
		M_N	33 56 39	0.3		±38			
		F_E	22 57 ±						
		F_N	22 57 01						
17	Feb. 22	eP	19 57 07						SSE off Titizima. The amplitudes are very small except on the N–S component.
		M_E	20 04 17	5.3	±5				
		M_N	20 03 50	8.0		±5			
		eF_E	20 09 30						
		eF_N	20 09 30						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
18	Mar. 3	P	1 13 10					4498	Trace of a distant earthquake.
		S	1 16 02						
		L	1 22 47						
		M_E	1 22 59	7.1	±18				
		M_1N	1 22 59			±40			
		M_2N	1 26 30	9.8		±52			
		F_E	1 54 ±						
		F_N	1 54 ±						
19	Mar. 3	P	16 54 11					3423	Ditto.
		S	16 57 35						
		L	17 01 04						
		M_E	17 02 18	13 3	±5				
		M_N	17 02 22	13.3		±6			
		F_E	17 14 ±						
		F_N	17 14 ±						

SUMOTO JAPAN.

SEISMOLOGICAL BULLETIN

A Branch Station of the Kobe Meteorological Observatory of Japan.
$\varphi = 34^\circ\ 21'$ $\lambda = 134^\circ\ 53'$ h = 109.0 m. Underground: Cretaceous.
Instruments: Wiechert Seismograph.

(Horizontal)

	T_o	ε	$\frac{r}{T_o^2}$	V
AE:	6.0	Aperiodic	0.003	80
AN:	6.0	"	0.004	80
AZ:	4.1	"	0.006	80

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1	Dec. 31	eP	19 19 18					26	In Kitan straits.
		L	19 19 22		+3	+1			
		ME	19 19 22	0.3	−3				
		MN	19 19 22	0.3		−3			
		MZ	19 19 22	0.3			+1		
		eF	19 19 55						
2	Jan. 4	eP	18 45 45					28	In the course of Arita river, Wakayama prefecture.
		L	18 45 49		−1	+1			
		ME	18 45 49	0.3	−1				
		MN	18 45 49	0.3		−3			
		eF	18 47 11						
3	Jan. 4	eP	23 32 44					42	In Kii channel.
		L	23 32 50		−1	+3			
		ME	23 32 50	0.2	+2				
		MN	23 32 50	0.2		−5			
		MZ	23 32 50	0.2			+1		
		eFE	23 33 32						
		eFN	23 33 32						
		eFZ	23 33 34						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
4	Jan. 6	eP	13 33 00					33	Near the mouth of Arita river.
		L	13 33 05		+1	+1			
		ME	13 33 07	0.2	±2				
		MN	13 33 07	0.2		±8			
		MZ	13 33 07	0.2			±1		
		eF	13 34 11						
5	Jan. 7	eP	22 11 33					865	Ih Kasima-nada.
		eS	22 12 31						
		eL	22 13 30						
		ME	22 13 48	15.9	+3				
		MN	22 13 43	15.9		−3			
		eF	22 21 07						
6	Jan. 7	P	22 24 52		−1	−1		12	In Kitan straits.
		L	22 24 54		+1	+2			
		M	22 24 54	0.2	+2	−5			
		F	22 25 17						
7	Jan. 15	P	14 32 17		+2	−6	+5	337	Northern off Kyōgasaki.
		L	14 33 02		−19	+11	−2		
		ME	14 33 03	1.7	+50				
		MN	14 33 03	1.7		+29			
		MZ	14 33 16	1.4			−3		
		eF	14 39 34						
8	Jan. 17	P	11 46 07		−0.2	+1		85	Near Wakayama.
		L	11 46 19		±2	+1			
		ME	11 46 20	0.3	±3				
		MN	11 46 20	0.3		±6			
		MZ	11 46 20	0.3			±1		
		eF	11 47 12						
9	Jan. 17	P	22 00 03		+1	+1	+0.3	789	Off Kinkazan.
		L	22 01 49		−5	+10	−1		
		M1E	22 02 02	3.8	+16				

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_1N	22 02 02	3.8		−22			
		M_1Z	22 02 01	2.6			−5		
		M_2E	22 02 05	3.8	+8				
		M_2N	22 02 05	3.8		−18			
		M_2Z	22 02 06	2.6			−4		
		eF	22 17 13						
10	Jan. 19	P	13 23 54		−0.3	+1	+0.3	37	Off Hinomisaki.
		L	13 23 59		+2	−2	−1		
		M	13 24 01	0.3	−7	+11	−2		
		eF	13 24 38						
11	Jan. 24	eP	1 16 08					3927	Faint record.
		eS	1 18 56						
		eS_R	1 21 52						
		L	1 24 18						
		F	1 56 08						
12	Feb. 3	eP	3 58 34		−1	+1			The amplitudes of P phase were very small.
		L	3 59 19		+6	+8	−1		
		M_E	3 59 58	2.0	−16				
		M_N	3 59 32	2.0		−18			
		M_Z	3 59 47	2.0			−3		
		eF	4 25 ±						
13	Feb. 3	eP	4 57 31		−1	+1			Ditto.
		L	4 58 16		+3	−4	−1		
		M_{EN}	4 58 54	2.0	−14	−25			
		M_Z	4 58 43	2.0			+2		
		eF	5 37 ±						
14	Feb. 4	P	2 59 20		−0.3	−0.6	−1.0	151	Trace only.
		L	2 59 41		−3	+1	−3		
		M_{EN}	2 59 49	1.8	−6	+2			
		M_Z	2 59 49	1.8			−4		
		eF	3 10 ±						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
15	Feb. 7	P	13 32 35		+0.4	−0.5		27	In Kitan straits.
		L	13 32 38		+1	+1			
		M	13 32 38	0.2	±3	±4			
		F	13 32 49						
16	Feb. 8	P	15 09 11					13	Ditto.
		L	15 09 12		+1	+2	−0.4		
		M_{EN}	15 09 13	0.3	−4	+8			
		M_Z	15 09 14	0.3			−2		
		eF	15 09 35						
17	Feb. 10	eP	16 26 45					22	Near Wakayama.
		L	16 26 48						
		M_E	16 26 48	0.3	−2				
		M_N	16 26 49	0.3		−3			
		M_Z	16 26 49				−1		
		F_{EN}	16 27 20						
		F_Z	16 27 20						
18	Feb. 11	P	15 27 40		−1	+1	−1	24	Ditto.
		L	15 27 43		+4	+6			
		M_{EN}	15 27 43	0.3	+8	−7			
		M_Z	15 27 44	0.3			±3		
		F_{EN}	15 28 50						
		F_Z	15 28 50						
19	Feb. 16	P	1 39 40		−2	−3	+1	2943	S.E off Kamchatka.
		S	1 41 19		−8	−5			
		S_R	1 43 20		−19	+20			
		L	1 45 20		+13	−7	−1		
		M_1E	1 47 16	13.2	+34				
		M_1N	1 45 53	13.2		+18			
		M_1Z	1 48 31	15.2			−10		
		M_2E	1 47 17	13.2	+36				
		M_2N	1 48 36	13.2		+22			
		M_2Z	1 53 07	15.2			+13		

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_3E	1 47 55	13.2	+36				
		M_3N	1 50 48	13.2		−14			
		M_4E	1 50 39	13.2	+30				
		M_4N	1 53 17	13.2		−19			
		eFEN	3 00 51						
		eFZ	3 00 47						
20	Feb. 16	P	3 00 51		−2	−3	+1	3022	Ditto.
		S	3 01 58		−2	+8			
		S_{R1}	3 03 17		−2	+13			
		S_{R2}	3 04 24		−4	+13			
		L	3 06 43		−5	+19	−1		
		M_1E	3 08 22	13.8	−20				
		M_1N	3 08 42	13.8		−18			
		M_2E	3 11 41	13.8	−14				
		M_2N	3 13 38	13.8		−24			
		MZ	3 09 27	14.9			+6		
		M_3E	3 20 27	13.8	+13				
		M_3N	3 22 05	13.8		−16			
		eFEN	6 06 05						
		eFZ	6 06 03						
21	Feb. 18	P	12 12 30		−1	+1		295	Upper course of Ōno river, Bingo district.
		L	12 13 10						
		MEN	12 13 11	0.5	±6	+13			
		MZ	12 13 14	0.5			±2		
		eF	12 16 ±						
22	Feb. 20	P	5 01 32		−1	−3	+1	36	In Kitan straits.
		L	5 01 36		+2	+4	−1		
		MEN	5 01 37	0.3	−3	+6			
		FEN	5 02 27						
		FZ	5 02 27						
23	Feb. 20	P	12 20 23		−1	+1	+1	26	Ditto.
		L	12 20 26		−1	−4	−1		

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		MEN	12 20 26	0.3	+2	+5			
		FEN	12 21 30						
		FZ	12 21 30						
*24	Feb. 20	P	12 23 04		+1	−1	−1	25	Ditto. Near epicentral region moderate shock was felt.
		L	12 23 07		−9	+10	+3		
		MEN	12 23 09	0.3	+14	+23			
		MZ	12 23 08	0.3			+4		
		FEN	12 24 32						
		FZ	12 24 31						
25	Feb. 20	P	22 56 28		+1	−1	−1	69	Upper course of Hidaka river, Wakayama prefecture.
		L	22 56 37		−3	−4			
		MEN	22 56 38	0.2	±3	±5			
		eF	22 57 17						
26	Feb. 22	eP	19 56 50					2061	SSE off Titizima.
		L	20 00 15						
		eF	20 24 ±						
27	Feb. 26	P	13 25 44					29	Near Sumoto.
		L	13 25 48						
		MEN	13 25 49	0.6	+3	+3			
		MZ	13 25 50	0.6			+3		
		FEN	13 26 38						
		FZ	13 26 39						
28	Feb. 26	P	13 26 46		−1	+1		28	Ditto.
		L	13 26 49		−3	−2			
		MEN	13 26 50	0.4	−3	+3			
		FEN	13 27 48						
		FZ	13 27 49						
29	Mar. 3	P	1 13 07					4510	Trace of a distant earthquake.
		S	1 15 05		−2	+3			
		S_{R1}	1 17 09		+1	+2			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		S_{R_2}	1 19 45		−3	−3			
		L	1 22 46		−3	+2			
		M_E	1 23 01	8.0	+9				
		M_N	1 23 49	8.0		+4			
		eF	2 05 ±						
								3136	Ditto.
30	Mar. 3	P	16 54 17						
		S	16 57 37						
		L	17 00 25						
		M_E	17 02 59	8.0	−4				
		M_N	17 02 04	8.0		+4			
		eF	17 37 ±						
								59	Near Sumoto.
31	Mar. 4	P	4 50 23		+1.0	+1.5	+0.9		
		L	4 50 31		−4	+3	−1		
		M_E	4 50 31	0.3	−4				
		M_N	4 50 42	0.3		+5			
		F_{EN}	4 50 58						
		F_Z	4 50 57						
								90	Ditto.
32	Mar. 5	P	11 59 18		−0.4	−0.6	+0.8		
		L	11 59 31		+2	+3	+1		
		M_E	11 59 33	0.3	±3				
		M_N	11 59 32	0.3		+4			
		M_Z	11 59 32	0.3			−2		
		F	11 59 57						
								42	Ditto.
33	Mar. 6	P	12 24 29						
		L	12 24 35		−2	−2			
		M_{EN}	12 24 35	0.2	+6	−4			
		M_Z	12 24 35				+1		
		F_{EN}	12 24 52						
		F_Z	12 24 53						
								24	Ditto.
34	Mar. 6	P	23 24 46						
		L	23 24 50		+1	−4	−1		

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_{EN}	23 24 50	0.3	−5	−7			
		M_Z	23 24 50	0.3			+1		
		eF_{EN}	23 25 26						
		eF_Z	23 25 31						

TOYOOKA JAPAN.

SEISMOLOGICAL BULLETIN

A Branch Station of the Kobe Meteorological Observatory of Japan.
$\varphi = 35^\circ\ 32'$ $\lambda = 134^\circ\ 49'$ h = 23.3 m. Underground : Diluvial Series.
Instruments : Wiechert Seismograph.

(Horizontal Pendulum.)

	T_0	ε	$\frac{r}{T_0^2}$	V
AE:	3.2		0.008	80
AN:	3.4		0.013	80

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1	Jan. 5	P	6 25 33					20	Near Toyooka.
		L	6 25 35						
		M	6 25 36		±10	±13			
		FE	6 25 44						
		FN	6 25 46						
2	Jan. 5	P	18 29 29						
		ME	18 29 29	0.3	+18				
		FE	18 29 49						
		eFN	18 29 52						
*3	Jan. 5	P	20 35 55					35	In Wakasa bay.
		L	20 35 59						
		M	20 36 00	0.3	±61	±106			
		F	20 36 52						
4	Jan. 6	P	19 19 03					25	Near Toyooka.
		L	19 19 06						
		eME	19 19 06		±11				
		MN	19 19 06			±11			
		FE	19 19 16						
		FN	19 19 21						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
5	Jan. 8	P	20 46 14					15	Ditto.
		L	20 46 16						
		M	20 46 17	0.3	±28	±51			
		F	20 46 27						
6	Jan. 9	P	18 10 48					20	Ditto.
		L	18 10 51						
		eM	18 10 51		±11	±13			
		F	18 10 56						
7	Jan. 15	P	12 45 33					14	Ditto.
		L	12 45 35						
		M	12 45 35		±18	±13			
		eF	12 45 46						
8	Jan. 15	P	14 32 09					305	Far northern off Kyogasaki, Kyoto prefecture.
		L	14 32 50						
		M	14 32 51	2.5	−175	−76			
		CE	14 33 44						
		CN	14 33 35						
		F	14 36 31						
9	Jan. 17	P	21 59 55					546	Off Kinkazan, Miyagi prefecture.
		L	22 01 09						
		ME	22 01 17	2.6	+100				
		MN	22 01 17	2.6		+73			
		eF	22 09 27						
10	Jan. 31	P	3 44 08					178	Near the mouth of Ibi river, Gifu prefecture.
		L	3 44 32						
		eME	3 44 36		±20				
		MN	3 44 36			±25			
		eF	3 45 23						
11	Jan. 31	P	21 52 59					25	Local shock.
		L	21 53 03						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M	21 53 03		+21	−15			
		F_E	21 53 20						
		eF_N	21 53 16						
12	Feb. 3	eP	3 53 39						The beginning of the P phase was not clear.
		eF_{R_1}	3 55 45						
		S	3 56 56						
		L	3 58 15						
		eF_E	4 08 38						
13	Feb. 3	eP	4 53 40						Ditto.
		eS	4 56 59						
		eL	4 58 38						
		eF	5 08 00						
14	Feb. 3	P	17 08 12					15	Near Toyooka.
		L	17 08 14						
		M_E	17 08 15		±21				
		M_N	17 08 15			±20			
		F_E	17 08 26						
		F_N	17 08 33						
15	Feb. 4	P	1 13 42					12	Ditto.
		L	1 13 43						
		eM_E	1 13 44		±15				
		M_N	1 13 44			±21			
		F_E	1 13 55						
		F_N	1 13 58						
16	Feb. 10	P	5 10 14					13	Ditto.
		L	5 10 16						
		M	5 10 16		±40	±72			
		F	5 10 26						
17	Feb. 16	P	1 39 31					2785	SE off Kamtchatka.
		S	1 39 31						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	1 44 47						
		M_1E	1 48 13	15.4	+48				
		M_1N	1 48 27	14.0		−74			
		M_2E	1 52 17	16.7	−23				
		M_2N	1 51 55	14.6		−50			
		M_3N	1 52 59	14.6		+56			
		M_4N	1 54 08	14.6		+48			
		eC_E	2 00 34						
		eC_N	2 00 06						
		eF	3 00 ±						
18	Feb. 16	P	3 00 36					2698	Ditto.
		S	3 04 11						
		L	3 05 45						
		M_1E	3 07 29	20.0	−15				
		M_1N	3 07 07	16.7		+19			
		M_2E	3 14 39	15.0	−13				
		M_2N	3 14 34	16.7		−16			
		eM_3E	3 21 26	15.0	−16				
		M_3N	3 21 14	14.6		+25			
		eM_4E	3 22 35	15.0	−14				
		M_4N	3 22 16	14.6		+24			
		eC_E	3 24 39						
		eF_E	4 20 39						
		F_N	4 19 ±						
19	Feb. 20	P	22 56 58					19	In the course of Maruyama river.
		L	22 57 00						
		M	22 57 01		±15	±11			
		F	22 57 15						
20	Mar. 1	P	16 14 53					17	Ditto.
		L	16 14 56						
		M_E	16 14 56		±11				
		M_N	16 14 56			±14			
		F	16 15 12						

No.	Date	Phase	Time G. M. T. h m s	Period s	Amplitude A_E μ	A_N μ	A_Z μ	Δ km.	Remarks
21	Mar. 3	P	1 13 16					4176	A distant earthquake.
		S	1 19 45						
		L	1 23 03						
		eF$_E$	2 00 03						
		eF$_N$	1 58 03						
22	Mar. 3	P	16 54 09						Ditto.
		S	16 54 28						
		eL	17 00 03						
		eF	17 18 00						

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OF THE

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AND

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KOBE, JAPAN.

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KOBE

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KÔBE, JAPAN.

SEISMOLOGICAL BULLETIN

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 Undergrouud : Diluvial Series.

Instrument : Omori's Seismograph (Horizontal Pendulum.)

	T_0	ε	$\frac{r}{T_0^2}$	V
A_N:	20		0.003	20
A_E:	20		0.008	20
A_E:	25		0.001	43

Wiechert Seismograph (Horizontal & Vertical)

	T_0	ε	$\frac{r}{T_0^2}$	V
A_E:	5.1	Aperiodic	0.004	80
A_N:	5.2	"	0.004	80
A_Z:	4.1	"	0.006	80

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*20	Mar. 7	P	9 27 58						The great earthquake which occurred near the mouth of the River Asamo, northwestern part of Tango Province. The energy of this earthquake comes after the great Sagami Sea earthquake which occurred in September, 1923; and about 3000 men were killed or wounded and 12000 houses damaged. Near the epicentral region two remarkable fault lines were found. Kobe felt week shocks but its duration was comparatibly long. The Wiechert seismographs installed at the Imperial Marine Observatory were thrown out of scale during a registering the preliminary tremore, but after half an hour these were restored.
*21	Mar. 7	P	9 28 05						After shock of No. 20.

* Earthquake felt.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*22	Mar. 7	P	9 28 45						Ditto.
*23	Mar. 7	P	9 32 48						Ditto.
*24	Mar. 7	P	9 35 45						Ditto.
*25	Mar. 7	P	9 36 15						Ditto.
*26	Mar. 7	P	9 38 48						Ditto.
*27	Mar. 7	P	9 39 35						Ditto.
*28	Mar. 7	P	9 41 43						Ditto.
*29	Mar. 7	P	9 44 33						Ditto.
30	Mar. 7	M_Z	10 01 41	1.6			±5		Ditto.
		F_Z	10 02 30						
31	Mar. 7	M_Z	10 06 54				±3		Ditto.
		eF_Z	10 07 30						
32	Mar. 7	M_Z	10 08 38				±3		Ditto.
		F_Z	10 09 ±						
33	Mar. 7	M_Z	10 11 02				±38		Ditto.
		F_Z	10 12 ±						
34	Mar. 7	P	10 12 44						
		L	10 12 59					116	Ditto.
		M_N	10 13 04	0.9		±8			
35	Mar. 7	P	10 14 02						
		L	10 14 17					111	Ditto.
		M_Z	10 14 23				±8		
		eF_Z	10 15 30						

No.	Date	Phase	Time G. M. T	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
36	Mar. 7	eP	10 19 36						Ditto.
		L	10 19 50						
		M_Z	10 19 52	0.9			±16		
		eF_Z	10 20 30						
37	Mar. 7	eP	10 22 36						Ditto.
		L	10 22 48						
38	Mar. 7	M_Z	10 23 01				±11		Ditto.
		eF_Z	10 23 30						
39	Mar. 7	M_Z	10 25 15				±1		Ditto.
40	Mar. 7	M_Z	10 29 40				±2		Ditto.
41	Mar. 7	M_Z	10 30 05	1.0			±3		Ditto.
42	Mar. 7	P	10 32 43				+4	116	Ditto.
		L	10 32 59						
		M_Z	10 33 01	1.3			±60		
		eF_Z	10 36 30						
43	Mar. 7	P	10 36 39					134	Ditto.
		L	10 36 57						
		M_E	10 36 58		±75				
		M_N	10 37 00	3.1		±75			
		M_Z	10 37 00				±9		
44	Mar. 7	P	10 38 04					94	Ditto.
		L	10 38 17						
		M_E	10 38 21		±13				
		M_N	10 38 21			±53			
		M_Z	10 38 23				±6		
45	Mar. 7	P	10 38 51					115	Ditto.
		L	10 33 06						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_E	10 39 08		±13				
		M_N	10 39 08			±13			
46	Mar. 7	P	10 39 42					115	Ditto.
		L	10 39 58						
		M_E	10 39 59		±13				
		M_N	10 39 59			±11			
		eF_E	10 40 30						
		eF_N	10 40 30						
47	Mar. 7	eP	10 41 17						Ditto.
		L	10 41 29						
		M_E	10 41 34		±63				
		M_N	10 41 40	2.5		±106			
		M_Z	10 41 29				±13		
		eF_E	10 42 30						
		eF_N	10 42 30						
		eF_Z	10 42 30						
48	Mar. 7	L	10 43 39						Ditto.
		M_E	10 43 41		±8				
		M_N	10 43 41			±6			
		F_E	10 44 ±						
		F_N	10 44 ±						
49	Mar. 7	L	10 44 22						Upper course of the River Yoshino.
		F_E	10 45 ±						
		F_N	10 45 ±						
50	Mar. 7	eP	10 46 33						After Shock of No. 20.
*51	Mar. 7	P	10 46 44						
		L	10 47 00					116	Ditto.
		M_1E	10 47 18		>±1788				
		M_1N	10 47 20			>±1338			
		M_Z	10 47 14	0.5			±194		

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_2N	10 47 35	1.4		±519			
		M_3N	10 49 17	2.6		±200			
52	Mar. 7	P	10 47 00						Ditto.
53	Mar. 7	eP	10 52 02						Ditto.
		L	10 52 13						
		M_N	10 52 27		±25				
		M_Z	10 52 18	0.6		±6			
54	Mar. 7	eP	10 53 01						Ditto.
		L	10 53 13						
		M_N	10 53 14			±19			
55	Mar. 7	P	11 01 03					100	Ditto.
		L	11 01 16						
		M_N	11 01 18	0.6		±35			
		M_Z	11 01 24				±13		
56	Mar. 7	L	11 02 42						Ditto.
		M_N	11 02 43			±6			
		M_Z	11 02 50				±3		
		eF_N	11 03 20						
		eF_Z	11 03 20						
57	Mar. 7	P	11 10 19					91	Ditto.
		L	11 10 32						
		M_E	11 10 36		±15				
		M_N	11 10 36	1.3		±11			
		F_E	11 11 ±						
		F_N	11 11 ±						
58	Mar. 7	P	11 13 25					86	Ditto.
		L	11 13 37						
		F	11 14 ±						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
59	Mar. 7	P	11 22 17					116	Ditto.
		L	11 22 33						
		M_E	11 22 38		±225				
		M_N	11 22 37	2.7		±313			
		M_Z	11 22 35	1.2			±31		
		C_E	11 26 27	3.2	±38				
		C_N	11 26 15	3.2		±38			
		eF_Z	11 24 30						
60	Mar. 7	M_E	11 23 34						Ditto.
		M_N	11 27 34			±10			
61	Mar. 7	P	11 27 17					109	Ditto.
		L	11 27 31						
62	Mar. 7	P	11 28 12					98	Ditto.
		L	11 28 26						
		eF_E	11 28 40						
		eF_N	11 28 40						
63	Mar. 7	L	11 37 26						Ditto.
		M_E	11 37 27		±15				
		M_N	11 37 27			±18			
		eF_E	11 37 40						
		eF_N	11 37 40						
64	Mar. 7	eP	11 42 29						Ditto.
		L	11 42 43						
		M_E	11 42 50		±68				
		M_N	11 42 46	0.5		±31			
65	Mar. 7	M_E	11 43 31		±6				Ditto.
		M_N	11 43 31			±11			
		eF_E	11 43 40						
		eF_N	11 43 40						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
66	Mar. 7	M_E	11 49 46	0.8	±18				Ditto.
		M_N	11 49 43	0.8		±14			
		M_Z	11 49 42				±5		
67	Mar. 7	eP	11 50 08						Ditto.
		L	11 50 20						
		M_E	11 50 25	0.5	±21				
		M_N	11 50 24			±28			
		M_Z	11 50 26	0.9			±13		
		eF_E	11 50 30						
		eF_N	11 50 30						
		eF_Z	11 50 30						
68	Mar. 7	eP	11 53 43						Ditto.
		L	11 53 56						
		M_E	11 53 01		±13				
		M_N	11 53 01	0.6		±15			
		M_Z	11 53 00				±3		
69	Mar. 7	P	11 54 23					119	Ditto.
		L	11 54 39						
		M_E	11 54 43		±15				
		M_N	11 54 43			±15			
		M_Z	11 54 39				±6		
		eF_E	11 55 30						
		eF_N	11 55 30						
		eF_Z	11 55 30						
70	Mar. 7	M_E	12 00 56						Ditto.
		M_N	12 00 56						
		F_E	12 01 ±						
		F_N	12 01 ±						
71	Mar. 7	eP	12 02 11						Ditto.
		L	12 02 27						
		M_E	12 02 29		±6				

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_N	12 02 29			±6			
		M_Z	12 02 28				±3		
		F_E	12 03 ±						
		F_N	12 03 ±						
		F_Z	12 03 ±						
72	Mar. 7	M_E	12 08 35		±4				Ditto.
		M_N	12 08 35			±3			
		F_E	12 09 ±						
		F_N	12 09 ±						
73	Mar. 7	P	12 16 54					101	Ditto.
		L	12 17 08						
		M_E	12 17 14		±6				
		M_N	12 17 14			±6			
		M_Z	12 17 11				±4		
		eF_E	12 17 40						
		eF_N	12 17 40						
		eF_Z	12 17 30						
74	Mar. 7	L	12 20 56						Ditto.
		M_E	12 20 58		±5				
		M_Z	12 21 00	1.3			±25		
		eF_Z	12 21 30						
75	Mar. 7	P	12 21 36					85	Ditto.
		L	12 21 48						
		M_E	12 21 56	0.9	±50				
		M_N	12 21 56			±44			
		M_Z	12 21 51	0.9			±16		
76	Mar. 7	P	12 22 43					82	Ditto.
		L	12 22 54						
		M_E	12 22 59		±15				
		M_N	12 22 59	0.6		±16			
		M_Z	12 22 58				±5		

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF_E	12 23 30						
		eF_N	12 23 30						
		eF_Z	12 23 30						
77	Mar. 7	P	12 34 13					97	Ditto.
		L	12 34 26						
		M_E	12 34 33		±25				
		M_N	12 34 33			±13			
		M_Z	12 34 44				±3		
		eF_E	12 35 30						
		eF_N	12 35 30						
		eF_Z	12 35 30						
78	Mar. 7	M_E	13 03 41		±4				Ditto.
		M_Z	13 03 40				±3		
79	Mar. 7	P	13 04 01					81	Ditto.
		L	13 04 12						
		M_E	13 04 14	0.8	±35				
		M_Z	13 04 15				±8		
		eF_E	13 05 30						
		F_Z	13 05 ±						
80	Mar. 7	P	13 23 59					84	Ditto.
		L	13 24 10						
		M_E	13 24 13		±19				
		M_N	13 24 13			±21			
		M_Z	13 24 14	0.9			±13		
*81	Mar. 7	P	13 24 33					79	Ditto.
		L	13 24 43						
		M_1E	13 24 49		>±1413				
		M_1N	13 24 55			>±1638			
		M_1Z	13 24 48	0.6			±119		
		M_2E	13 24 56	1.8	±663				
		M_2N	13 25 03	2.6		±1113			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_2Z	13 24 56				±119		
		eF_E	13 33 30						
		eF_N	13 33 30						
		eF_Z	13 30 30						
82	Mar. 7	eP	13 25 36						Ditto.
83	Mar. 7	eP	13 28 23						Ditto.
84	Mar. 7	P	13 45 43					93	Ditto.
		L	13 45 55						
		M_E	13 45 56		±5				
		M_N	13 45 56			±6			
85	Mar. 7	eP	13 46 01						Ditto.
		L	13 46 13						
		M_E	13 46 16		±19				
		M_N	13 46 17			±19			
		M_Z	13 46 14				±6		
		eF_E	13 47 ±						
		eF_N	13 47 ±						
		eF_Z	13 46 40						
86	Mar. 7	P	13 52 31					93	Ditto.
		L	13 52 53						
		M_E	13 53 05		±4				
		M_N	13 53 05			±4			
		M_Z	13 52 57				±3		
		eF_E	13 55 30						
		eF_N	13 55 30						
		eF_Z	13 55 30						
87	Mar. 7	P	14 02 51						Ditto.
87	Mar. 7	P	14 07 46						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
89	Mar. 7	P	14 11 40					100	Ditto.
		L	14 11 54						
		M_E	14 11 54		±88				
		M_N	14 11 54			±88			
		M_Z	14 11 55	1.0			±38		
		F_E	14 15 24						
		F_N	14 15 40						
		F_Z	14 14 22						
90	Mar. 7	P	14 18 07						Ditto.
91	Mar. 7	P	14 20 35					100	Ditto.
		L	14 20 48						
		M_E	14 20 54		±10				
		M_N	14 20 53			±13			
		M_Z	14 20 53						
		F_E	14 21 44						
		F_N	14 22 04						
92	Mar. 7	P	14 28 05						Ditto.
93	Mar. 7	P	14 31 13					101	Ditto.
		L	14 31 26						
		M_E	14 31 28		±9				
		M_N	14 31 27			±9			
		M_Z	14 31 27						
		F_E	14 32 04						
		F_N	14 31 50						
94	Mar. 7	P	14 37 21					101	Ditto.
		L	14 37 35						
		M_Z	14 37 37						
		F_N	14 38 ±						
95	Mar. 7	P	14 45 18						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
96	Mar. 7	P	14 46 02					145	Ditto.
		L	14 46 21						
		ME	14 46 26		±19				
		MN	14 46 23			±25			
		MZ	14 46 22						
		eFE	14 47 30						
		eFN	14 47 20						
97	Mar. 7	P	14 47 26						Ditto.
98	Mar. 7	P	14 49 40						Ditto.
99	Mar. 7	MN	14 50 51						Ditto.
100	Mar. 7	P	15 03 31						Ditto.
		ME	15 03 42						
		MN	15 03 59						
		eFE	15 05 20						
		eFN	15 05 20						
101	Mar. 7	P	15 08 01						Ditto.
		F	15 09 ±						
102	Mar. 7	P	15 29 43					104	In the Bay of Miho, Tottori Prefecture.
		L	15 29 57						
		ME	15 30 10		±26				
		MN	15 30 08			±35			
		MZ	15 29 59				±13		
		eFE	15 31 10						
		eFN	15 31 20						
		FZ	15 31 ±						
103	Mar. 7	P	15 32 04						After shock of No. 20.
104	Mar. 7	P	15 34 58						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
105	Mar. 7	P	15 36 32		−5	−18		101	Ditto.
		L	15 36 45						
		ME	15 36 51	4.1	±1600				
		MN	15 36 46	2.7		±938			
		MZ	15 36 50				±219		
		CE	15 38 37	3.5	±163				
		CN	15 39 02	3.6		±206			
		FE	15 44 33						
		FN	15 44 33						
		FZ	15 41 32						
106	Mar. 7	P	15 44 43					91	Ditto.
		L	15 44 56						
		ME	15 44 58	1.2	±15				
		MN	15 44 59	1.2		±16			
		MZ	15 44 57				±9		
		FE	15 46 14						
		FN	15 46 07						
107	Mar. 7	P	15 49 01					111	Ditto.
		L	15 49 16						
		ME	15 49 32	3.5	±175				
		MN	15 49 30	3.1		±154			
		MZ	15 49 21	1.2			±35		
		FE	15 55 20						
		FN	15 55 20						
108	Mar. 7	P	15 55 20						Ditto.
109	Mar. 7	P	16 03 10						Ditto.
110	Mar. 7	P	16 05 02						Ditto.
111	Mar. 7	P	16 09 26					89	Ditto.
		L	16 09 38						
		F	16 10 08						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
112	Mar. 7	P	16 15 26					111	Ditto.
		L	16 15 41						
		M_E	16 15 50						
		M_N	16 15 54						
		F_E	16 16 52						
		F_N	16 16 55						
113	Mar. 7	P	16 34 07						Ditto.
		M_E	16 34 21		±19				
		M_N	16 34 21			±19			
		M_Z	16 34 20						
		F_E	16 35 05						
		F_N	16 35 05						
114	Mar. 7	P	16 53 57						Ditto.
		M_E	16 54 10						
		M_N	16 54 07						
		eF_E	16 54 30						
		eF_N	16 54 30						
115	Mar. 7	P	17 04 20						Ditto.
		F	17 05 13						
116	Mar. 7	P	18 03 31					111	Ditto.
		L	18 03 46						
		M_E	18 03 48		±10				
		M_N	18 03 48			±13			
		M_Z	18 03 47						
		F_E	18 04 21						
		F_N	18 04 21						
117	Mar. 7	P	18 41 04						Ditto.
118	Mar. 7	P	18 43 31						Ditto.
119	Mar. 7	P	18 47 27						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_E	18 47 48		±21				
		M_N	18 47 50			±24			
		M_Z	18 47 48						
		eF_E	18 48 30						
		F_N	18 48 57						
0	Mar. 7	P	19 34 03					89	Ditto.
		L	19 34 15						
		M_E	19 34 20		±28				
		M_N	19 34 22			±19			
		M_Z	19 34 21						
		F_E	19 35 31						
		F_N	19 35 21						
1	Mar. 7	P	19 44 47						Ditto.
2	Mar. 7	P	19 54 00					91	Ditto.
		L	19 54 12						
		M_E	19 54 19		±88				
		M_N	19 54 13			±35			
		M_Z	19 54 14				±10		
		F_E	19 55 29						
		F_N	19 55 14						
3	Mar. 7	P	21 21 53						Ditto.
		M_E	21 20 12		±15				
		M_N	21 22 06			±15			
		M_Z	21 22 07						
		F_E	21 23 13						
		F_N	21 22 56						
4	Mar. 7	P	21 53 34						Ditto.
		M_E	21 53 49						
		M_N	21 53 49			±16			
		eF_E	21 54 31						
		eF_N	21 54 31						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
125	Mar. 7	P	22 16 31					101	Ditto.
		L	22 16 44						
		M_E	22 16 51		±63				
		M_N	22 16 48			±46			
		M_Z	22 16 49				±18		
		F_N	22 17 43						
126	Mar. 7	P	22 17 43						Ditto.
127	Mar. 7	P	22 32 17					111	Ditto.
		L	22 32 32						
		M_N	22 32 34			±16			
		eF_N	22 33 30						
128	Mar. 7	P	23 03 38						Ditto.
129	Mar. 7	P	23 35 14					122	Ditto.
		L	23 35 31						
		M_E	23 35 38		±50				
		M_N	23 35 44			±29			
		M_Z	23 35 41						
		F_E	23 36 42						
		F_N	23 36 42						
130	Mar. 7	eP	23 52 49						Ditto.
131	Mar. 8	P	0 13 53					97	Ditto.
		L	0 14 06						
		M_E	0 14 13	3.0	±313				
		M_N	0 14 07	1.5		±263			
		M_Z	0 14 06				±113		
		F_E	0 17 53						
		F_N	0 17 57						
		F_Z	0 17 53						
132	Mar. 8	P	0 19 54						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_E	0 20 12		±25				
		M_N	0 20 13			±30			
		M_Z	0 20 11				±9		
		F_E	0 21 40						
		F_N	0 21 28						
		F_Z	0 21 ±						
33	Mar. 8	M_N	1 00 25						Ditto.
34	Mar. 8	P	1 14 51					89	Ditto.
		L	1 15 29						
		M_E	1 15 07		±34				
		M_N	1 15 07			±56			
		M_Z	1 15 03				±25		
		eF_E	1 16 27						
		F_N	1 16 19						
		F_Z	1 16 ±						
35	Mar. 8	M_N	1 33 18						Ditto.
36	Mar. 8	M_E	2 07 46						Ditto.
		M_N	2 07 39						
37	Mar. 8	P	2 17 22						Ditto.
		M_E	2 17 38	2.4	±25				
		M_N	2 17 36	2.1		±38			
		M_Z	2 17 25				±6		
		eF_N	2 18 30						
38	Mar. 8	M_N	3 39 07						Ditto.
		M_Z	3 39 07						
39	Mar. 8	M_N	5 14 00						Ditto.
40	Mar. 8	eP	7 28 31						Ditto.
		F	7 29 ±						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
141	Mar. 8	P	7 30 01					99	Ditto.
		L	7 30 15						
		M_E	7 30 16		±18				
		M_N	7 30 16			±15			
		F_E	7 31 ±						
		F_N	7 31 ±						
142	Mar. 8	M_E	7 41 56		±10				Ditto.
		M_N	7 41 56			±8			
		eF_E	7 42 10						
		eF_N	7 42 10						
143	Mar. 8	M_E	7 59 39		±4				Ditto.
		M_N	7 59 39			±5			
		F_E	8 00 ±						
		F_N	8 00 ±						
144	Mar. 8	M_E	8 49 02		±3				Ditto.
		eF_E	8 49 09						
145	Mar. 8	L	9 11 04						Ditto.
		M_E	9 11 07		±4				
		M_N	9 11 07			±5			
		eF_E	9 11 30						
		eF_N	9 11 30						
146	Mar. 8	M_E	9 55 20		±6				Ditto.
		M_N	9 55 20			±5			
		eF_E	9 55 30						
		eF_N	9 55 30						
147	Mar. 8	M_E	10 14 11		±6				Ditto.
		M_N	10 14 11			±9			
		eF_E	10 14 30						
		eF_N	10 14 30						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
148	Mar. 8	P	10 33 16		−25	−38	+15	83	Ditto.
		L	10 33 28						
		M_E	10 33 28		±70				
		M_N	10 33 28			±100			
		M_Z	10 33 34				±34		
		eF_E	10 34 52						
		eF_N	10 35 09						
		eF_Z	10 35 29						
149	Mar. 8	eP	12 05 00						Ditto.
		L	12 05 10						
		M_E	12 05 13		±13				
		M_N	12 05 13			±15			
		M_Z	12 05 11				±5		
		F_E	12 06 ±						
		F_N	12 06 ±						
		F_Z	12 06 ±						
150	Mar. 8	M_E	12 57 53						Ditto.
		eF_E	12 58 08						
151	Mar. 8	eP	13 06 56						Ditto.
		M_E	13 07 07		±21				
		M_N	13 07 08			±19			
		F_E	13 08 ±						
		F_N	13 08 ±						
152	Mar 8	M_E	13 45 57		±8				Ditto.
		M_N	13 45 57			±5			
		eF_E	13 46 08						
		eF_N	13 40 08						
153	Mar. 8	P	14 43 52		−21	−19	+9	100	Ditto.
		L	14 45 06						
		M_E	14 45 07	2.7	±1500				
		M_N	14 45 07	3.6		±963			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		MZ	14 45 06				±188		
		FE	14 52 ±						
		FN	14 52 ±						
		FZ	14 51 ±						
154	Mar. 8	P	18 00 48					99	Ditto.
		L	18 01 02						
		ME	18 01 04		±15				
		MN	18 01 04						
		eFE	18 01 50						
		eFN	18 01 50						
155	Mar. 8	ME	20 18 35		±8				Ditto.
		MN	20 18 35			±9			
		FE	20 19 ±						
		FN	20 19 ±						
156	Mar. 8	P	21 33 27					105	Ditto.
		L	21 33 41						
		ME	21 33 43		±11				
		MN	21 33 43			±13			
		eFE	21 34 30						
		eFN	21 34 30						
157	Mar. 8	P	23 06 27					95	Ditto.
		ME	23 06 45	1.5	±111				
		MN	23 06 52	2.1		±185			
		MZ	23 06 45	1.2			±85		
		eFE	23 10 40						
		eFN	23 10 43						
		eFZ	23 09 ±						
158	Mar. 9	ME	1 10 44						Ditto.
		MN	1 10 44						
159	Mar. 9	P	1 49 43					119	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	1 49 59						
		ME	1 50 00	0.9	±58				
		MN	1 50 00			±31			
		MZ	1 49 59				±23		
		FE	1 52 ±						
		FN	1 52 ±						
		FZ	1 52 ±						
0	Mar. 9	ME	2 54 52						Ditto.
		MN	2 54 52						
1	Mar. 9	ME	3 50 42						Ditto.
		MN	3 50 42						
2	Mar. 9	P	4 25 07					89	Ditto.
		L	4 25 19						
		ME	4 25 21		±44				
		MN	4 25 21			±44			
		MZ	4 25 21				±23		
		eFE	4 26 30						
		eFN	4 26 30						
		eFZ	4 26 30						
3	Mer. 9	ME	4 55 55						Ditto.
		MN	4 55 55			±5			
4	Mar. 9	P	11 44 57					96	Ditto.
		L	11 45 10						
		ME	11 45 12		±122				
		MN	11 45 12			±113			
		MZ	11 45 11				±44		
		eFE	11 48 30						
		eFN	11 48 30						
		eFZ	11 47 30						
5	Mar. 9	P	12 24 38					109	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	12 24 53						
		M_E	12 24 55		±44				
		M_N	12 24 56			±25			
		M_Z	12 24 58				±5		
		eF_E	12 27 30						
		eF_N	12 27 30						
		eF_Z	12 26 30						
166	Mar. 9	P	13 29 37					.106	Ditto.
		L	13 29 51						
		M_E	13 28 52		±13				
		M_N	13 28 52			±11			
		eF_E	13 30 20						
		eF_N	13 30 20						
167	Mar 9	M_E	14 03 37						Ditto.
		M_N	14 03 37						
		F_E	14 04 ±						
		F_N	14 04 ±						
168	Mar. 9	M_E	15 19 21		±3				Ditto.
		M_N	15 19 24			±3			
		F_E	15 20 ±						
		F_N	15 20 ±						
169	Mar. 9	P	18 54 22					88	Ditto.
		L	18 54 34						
		M_E	18 54 34		±25				
		M_N	18 54 34			±23			
170	Mar. 9	P	18 55 47					104	Ditto.
		L	18 56 01						
		M_E	18 56 03		±19				
		M_N	18 56 03			±13			
		F_E	19 07 ±						
		F_N	19 07 ±						

o.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1	Mar. 9	P	19 46 13					102	Ditto.
		L	19 46 27						
		M_E	19 46 28		±18				
		M_N	19 46 28			±15			
		eF_E	19 47 20						
		eF_N	19 47 20						
2	Mar. 9	eP	19 50 37						Ditto.
		eF_E	19 51 20						
		eF_N	19 51 20						
3	Mar. 9	eP	19 53 29						Ditto.
		eF_E	19 54 ±						
		eF_N	19 54 ±						
4	Mar. 9	P	20 26 58					115	Ditto.
		L	20 27 14						
		M_1E	20 27 15		±77				
		M_1N	20 27 15			±91			
		M_Z	20 27 17						
		M_2E	20 27 32	2.0	±88				
		M_2N	20 27 30			±88			
		eF_E	20 31 20						
		eF_N	20 31 20						
		F_Z	20 28 ±						
5	Mar. 9	eP	21 02 09						Ditto.
		eF_E	21 03 30						
		eF_N	21 03 30						
6	Mar. 9	P	22 42 23					111	Ditto.
		L	22 42 38						
		M_E	22 42 42		±21				
		M_N	22 42 42						
		eF_E	22 43 30						
		eF_N	22 43 30						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
177	Mar. 9	eP	22 45 50						Ditto.
178	Mar. 10	eMN	0 00 29						Ditto.
179	Mar. 10	P	2 47 31					104	Ditto.
		L	2 47 45						
		ME	2 47 48		±25				
		MN	2 47 48			±38			
		eFE	2 48 30						
		eFN	2 48 30						
180	Mar. 10	eP	3 01 27						Ditto.
		L	3 01 42						
		ME	3 01 44		±13				
		MN	3 01 44			±15			
		eFE	3 02 30						
		eFN	3 02 30						
181	Mar. 10	eP	5 51 46						Ditto.
		L	5 52 01						
		MN	5 52 07	1.8		±13			
		eFE	5 53 30						
		eFN	5 53 30						
182	Mar. 10	ME	6 18 44						Ditto.
		MN	6 18 41						
183	Mar. 10	ME	9 01 33						Ditto.
		MN	9 01 23						
184	Mar. 10	ME	20 39 00		±13				Ditto.
		MN	20 39 00			±9			
		eFE	20 39 20						
		eFN	20 39 20						
*185	Mar. 10	P	22 36 17		+13	−23	+9	98	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	22 36 30						
		M1E	22 36 32	1.1	±606				
		M1N	22 36 32			±375			
		MZ	22 36 32				±125		
		M2E	22 36 38	2.6	±1250				
		M2N	22 36 42			±365			
		eFE	22 45 20						
		eFN	22 45 20						
		eFZ	22 38 20						
6	Mar. 11	eP	0 37 22						Ditto.
7	Mar. 11	P	0 50 34		-9	+19	+4	111	Ditto.
		L	0 50 49						
		ME	0 50 54	0.5	±110				
		MN	0 50 51			±131			
		MZ	0 50 55				±50		
8	Mar. 11	ME	0 55 58						Ditto.
		MN	0 55 58						
9	Mar. 11	eP	1 27 39						Ditto.
		ME	1 27 50		±6				
		MN	1 27 53			±6			
		eFE	1 28 20						
		eFN	1 28 20						
10	Mar. 11	eP	6 14 28						Ditto.
		L	6 14 40						
		ME	6 14 41		±13				
		MN	6 14 41			±10			
		eFE	6 15 20						
		eFN	6 15 20						
11	Mar. 11	ME	8 59 58						Ditto.
		MN	8 59 58						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF$_E$	9 00 50						
		eF$_N$	9 00 50						
192	Mar. 11	P	14 43 21					91	Ditto.
		L	14 43 34						
		M$_E$	14 43 34		±8				
		M$_N$	14 43 35			±8			
		eF$_E$	14 44 20						
		eF$_N$	14 44 20						
193	Mar. 11	M$_E$	16 13 10		±3				Ditto.
		M$_N$	16 13 10			±5			
		eF$_E$	16 13 20						
		eF$_N$	16 13 20						
*194	Mar. 11	P	20 30 16		+9	+15	+10	117	Ditto.
		L	20 30 32						
		M$_E$	20 30 36	1.4	±294				
		M$_N$	20 30 38	0.6		±240			
		M$_Z$	20 30 44				±85		
		eF$_E$	20 36 10						
		eF$_N$	20 36 10						
		eF$_Z$	20 35 10						
195	Mar. 12	M$_E$	3 21 00		±5				Ditto.
		M$_N$	3 20 10			±5			
		eF$_E$	3 20 40						
		eF$_N$	3 20 40						
196	Mar. 12	eP	6 27 14						Ditto.
		L	6 27 25						
		M$_E$	6 27 40	1.6	±50				
		M$_N$	6 27 40	1.6		±90			
		M$_Z$	6 27 39				±13		
		eF$_E$	6 32 10						
		eF$_N$	6 32 10						

o.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF$_Z$	6 29 10						
7	Mar. 12	eP	8 15 00						Ditto.
		L	8 15 13						
		M$_E$	8 15 14		±8				
		M$_N$	8 15 14	0.6		±10			
		eF$_E$	8 15 40						
		eF$_N$	8 15 40						
8	Mar. 13	L	2 47 04						In the Kitan Strait.
		M$_E$	2 47 04		±14				
		M$_N$	2 47 04			±15			
		F$_E$	2 47 ±						
		F$_N$	2 47 ±						
9	Mar. 13	P	4 37 23					119	After shock of No. 20.
		L	4 37 39						
		M$_E$	4 37 41		±46				
		M$_N$	4 37 45	2.3		±83			
		M$_Z$	4 37 48				±6		
		eF$_E$	4 38 40						
		eF$_N$	4 38 30						
		eF$_Z$	4 38 30						
0	Mar. 13	P	7 06 56					124	Ditto.
		L	7 07 12						
		M$_E$	7 07 17		±6				
		M$_N$	7 07 17	1.7		±23			
		eF$_E$	7 07 30						
		F$_N$	7 08 ±						
1	Mar. 13	eP	11 35 11						Ditto.
		L	11 35 26						
		M$_E$	11 35 27		±6				
		M$_N$	11 35 27			±8			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F_E	11 36 ±						
		F_N	11 36 ±						
202	Mar. 13	M_E	21 46 58						Ditto.
		M_N	21 46 58			±4			
		eF_E	21 47 10						
		eF_N	21 47 10						
203	Mar. 14	eP	1 34 30						Ditto.
		L	1 34 40						
		M_E	1 34 40		±6				
		M_N	1 34 40			±6			
		F_E	1 35 ±						
		F_N	1 35 ±						
204	Mar. 14	P	3 49 45					87	Ditto.
		L	3 49 57						
		M_E	3 50 00	0.6	±69				
		M_N	3 50 00			±44			
		M_Z	3 49 58				±36		
		F_E	3 52 ±						
		F_N	3 52 ±						
		F_Z	3 52 ±						
205	Mar. 14	M_E	11 13 32		±10				Ditto.
		M_N	11 13 32			±15			
		F_E	11 14 ±						
		F_N	11 14 ±						
206	Mar. 15	M_E	22 08 25	1.06	±8				In the vicinity of Mongolia, North China.
		M_N	22 09 12						
		F_E	22 13 ±						
		F_N	22 13 ±						
207	Mar. 16	P	6 54 48						
		S	6 56 19					994	NE off Miyako, Iwate Prefecture.
		L	6 57 02						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
	M_E	6 58 12	3.0	±38				
	M_N	6 58 02	2.7		±28			
	F_E	7 03 ±						
	F_N	7 03 ±						
Mar. 16	eP	19 53 52						After shock of No. 20.
	L	19 54 01						
	M_E	19 54 08		±9				
	M_N	19 54 08			±14			
	F_E	19 55 ±						
	F_N	19 55 ±						
Mar. 18	P	12 47 59					79	Ditto.
	L	12 48 10						
	M_E	12 48 15		±448				
	M_N	12 48 14			±175			
	M_Z	12 48 19				±56		
	eF_E	12 49 40						
	eF_N	12 49 40						
	eF_Z	12 49 40						
Mar. 18	M_E	20 18 52						Ditto.
	M_N	20 18 52						
	eF_E	20 19 40						
	eF_N	20 19 40						
Mar. 18	eP	21 29 40						Ditto.
	L	21 29 52						
	M_N	21 29 55						
	eF_E	21 30 40						
	eF_N	21 30 40						
Mar. 19	M_E	6 51 03		±15				Ditto.
	M_N	6 51 03			±15			
	eF_E	6 51 40						
	eF_N	6 51 40						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
								108	Ditto.
213	Mar. 20	P	4 45 30						
		L	4 45 45						
		M_E	4 45 50	0.9	±66				
		M_N	4 45 53			±40			
		M_Z	4 45 49				±35		
		eF_E	4 49 30						
		eF_N	4 49 30						
		eF_Z	4 48 30						
									Ditto.
214	Mar. 20	M_E	13 46 20						
		M_N	13 46 20			±3			
		F_E	13 47 ±						
		F_N	13 47 ±						
									Ditto.
215	Mar. 20	P	17 42 27					125	
		L	17 42 44						
		M_E	17 42 47		±10				
		M_N	17 42 47			±10			
		eF_E	17 43 30						
		eF_N	17 43 30						
									Ditto.
216	Mar. 22	eP	3 57 59						
		L	3 58 10						
		M_E	3 58 21		±15				
		M_N	3 58 21			±13			
		eF_E	3 59 30						
		eF_N	3 59 30						
									Ditto.
217	Mar. 23	M_E	23 42 04		±5				
		M_N	23 42 04			±6			
		eF_E	23 42 30						
		eF_N	23 42 30						
									In the catchment a
218	Mar. 24	P	0 48 54					71	
		L	0 49 04						of the Naga River, A
		M_E	0 49 04		±46				Province.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_N	0 49 04	0.5		±48			
		F_E	0 50 ±						
		F_N	0 50 ±						
									After shock of No. 20.
9	Mar. 24	M_E	15 35 05		±13				
		M_N	15 35 05			±13			
		eF_E	15 35 50						
		eF_N	15 35 50						
									Ditto.
0	Mar. 25	P	10 13 46					86	
		L	10 13 57						
		M_E	10 14 00	1.1	±15				
		M_N	10 14 00			±13			
		eF_E	10 14 40						
		eF_N	10 14 40						
									In the Kii Channel.
1	Mar. 26	P	0 36 27					70	
		L	0 36 37						
		M_E	0 36 38		±25				
		M_N	0 36 38			±15			
		F_E	0 37 ±						
		F_N	0 37 ±						
									After shock of No. 20.
3	Mar. 28	P	20 06 58					112	
		L	20 07 13						
		M_E	20 07 14		±15				
		M_N	20 07 14			±13			
		F_E	20 08 ±						
		F_N	20 08 ±						
									Ditto.
3	Mar. 30	P	13 30 56					125	
		L	13 31 13						
		M_E	13 31 13		±41				
		M_N	13 31 19	0.5		±63			
		eF_E	13 35 50						
		eF_N	13 35 50						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
								74	Ditto.
224	Mar. 30	P	13 57 26						
		L	13 57 36						
		M_E	13 57 42		±6				
		M_N	13 57 39			±8			
		eF_E	13 58 20						
		eF_N	13 58 20						
225	Mar. 30	P	18 35 14					90	Ditto.
		L	18 35 26						
		M_E	18 35 27						
		M_N	18 35 27						
		eF_E	18 35 45						
		eF_N	18 35 45						
226	Mar. 31	eP	2 45 30						Ditto.
		L	2 45 55						
		M_E	2 45 57		±8				
		M_N	2 45 57			±8			
		eF_E	2 46 40						
		eF_N	2 46 40						
*227	Mar. 31	eP	21 08 52		+101	−253	+203	96	The greatest after s
		L	21 09 05						of No. 20; and at
		M_1E	21 09 05		>±1875				epicentral region
		M_1N	21 09 05			>±1778			strong shocks were
		M_1Z	21 09 05				>±1375		
		M_2E	21 11 10	3.0	±1250				
		M_2N	21 11 10	3.0		±838			
		M_2Z	21 11 10	3.0			±335		
		eF_E	21 24 40						
		eF_N	21 24 40						
		eF_Z	21 19 40						
228	Apr. 1	P	2 42 00						
		L	2 42 12					91	After shock of No.
		M_E	2 42 15		±13				

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_N	2 42 14			±13			
	Apr. 1	eP	5 50 12						Ditto.
		L	5 50 27						
		M_E	5 50 28						
		M_N	5 50 28			±13			
		F_E	5 51 ±						
		F_N	5 51 ±						
	Apr. 1	P	9 23 45					68	Ditto.
		L	9 23 55						
		M_E	9 24 01		±128				
		M_N	9 24 07	0.6		±206			
		M_Z	9 24 01	0.6			±40		
		eF_E	9 29 40						
		eF_N	9 29 40						
		eF_Z	9 28 40						
1	Apr. 1	eP	19 16 44						A distant earthquake.
		eL	19 26 17						
		M_E	19 27 17	3.0	±15				
		M_N	19 27 11			±14			
		eF_E	19 29 30						
		eF_N	19 29 30						
2	Apr. 1	eP	20 55 09						NErn part of the Kii
		L	20 55 22						Channel.
		M_E	20 55 27		±13				
		M_N	20 55 27			±10			
		F_E	20 56 ±						
		F_N	20 56 ±						
3	Apr. 1	eP	23 26 18						Upper course of the
		L	23 26 34						River Masuda, Gifu
		M_E	23 26 36		±131				Prefecture.
		M_N	23 26 36			±88			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
							±50		
		MZ	23 26 35						
		eFE	23 32 30						
		eFN	23 32 30						
		eFZ	23 31 30						
234	Apr. 4	ME	5 03 01		±11				The end part was indistinct by the pulsatory motion.
		MN	5 02 39			±14			
235	Apr. 6	P	9 27 43					29	In the Kii Channel
		L	9 27 46						
		ME	9 27 47		±13				
		MN	9 27 47			±11			
		FE	9 28 ±						
		FN	9 28 ±						
236	Apr. 6	L	19 47 51						After shock of No.
		ME	19 47 54		±6				
		MN	19 47 52			±13			
		eFE	19 48 20						
		eFN	19 48 20						
237	Apr. 7	ME	20 59 06		±4				A Local shock.
		MN	20 59 06			±4			
		eFE	20 59 30						
		eFN	20 59 30						
238	Apr. 8	P	8 42 39						After shock of No.
		L	8 42 56						
		ME	8 43 02		±30				
		MN	8 43 02			±150			
		FE	8 48 ±						
		FN	8 48 ±						
239	Apr. 8	P	13 05 41		+11	−26		128	Ditto.
		L	13 05 58						
		ME	13 06 05	1.5	±453				
		MN	13 06 05	1.5		±944			
		CE	13 09 23	3.0	±115				
		CN	13 09 59	2.7		±63			
		FE	13 16 ±						
		FN	13 16 ±						
		FZ	13 07 ±						
240	Apr. 8	ME	23 03 17		±4				Ditto.
		MN	23 03 17			±6			
		FE	23 04 ±						
		FN	23 04 ±						
241	Apr. 9	eP	0 18 39						Near the mouth of the River Arita, Wakayama Prefecture.
		ME	0 18 55		±5				
		MN	0 18 55	1.1		±6			
		FE	0 22 ±						
		FN	0 22 ±						
242	Apr. 10	P	15 55 39					85	After shock of No. 20.
		L	15 55 50						
		ME	15 55 55	0.5	±31				
		MN	15 55 53	0.5		±43			
		FE	15 57 ±						
		FN	15 57 ±						
243	Apr. 12	P	3 31 26					188	Upper course of the River Masuda, Gifu Prefecture.
		L	3 31 51						
		ME	3 32 03	1.2	±26				
		MN	3 32 06			±19			
		eFE	3 36 ±						
		eFN	3 36 ±						
244	Apr. 13	eP	13 49 02						A distant earthquake; probable origin in Micronesia, Pacific Ocean.
		ME	13 54 06		±9				
		MN	13 54 09			±6			
		FE	14 00 ±					≒	

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		FN	13 59 ±						
245	Apr. 14	eP	6 43 59						A distant earthqua
		ME	6 49 46		±5				
		MN	6 49 57			±5			
		FE	6 55 ±						
		FN	6 55 ±						
246	Apr. 14	P	16 59 56					122	After shock of No.
		L	17 00 12						
		ME	17 00 02		±38				
		MN	17 00 22	2.0		±128			
		MZ	17 00 21				±25		
		FE	17 01 ±						
		FN	17 01 ±						
		FZ	17 01 ±						
247	Apr. 16	P	13 34 44					98	Ditto.
		L	13 34 57						
		ME	13 35 00		±38				
		MN	13 35 00			±25			
		FE	13 36 ±						
		FN	13 36 ±						
248	Apr. 17	P	6 44 09					75	Ditto.
		L	6 44 20						
		ME	6 44 24		±6				
		MN	6 44 23			±10			
		FE	6 45 ±						
		FN	6 45 ±						
249	Apr. 18	P	11 25 08					60	Upper course of th River Yodo.
		L	11 25 16						
		ME	11 25 17		±25				
		MN	11 25 17			±25			
		FE	11 26 ±						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		FN	11 26 ±						
	Apr. 19	P	17 35 08					2305	A distant earthquake; probable origin in Micronesia, Pacific Ocean. From Omori's seismograph.
		L	17 39 11						
		ME	17 40 25	12.5	±350				
		MN	17 40 25			±235			
		FE	17 45 ±						
		FN	17 45 ±						
	Apr. 19	P	20 49 23					83	After shock of No. 20.
		L	20 49 34						
		ME	20 49 36		±13				
		MN	20 49 36			±15			
		FE	20 50 ±						
		FN	20 50 ±						
	Apr. 20	P	7 56 54					45	In the course of the River Kinokawa, Wakayama Prefecture.
		L	7 57 00						
		ME	7 57 03	0.6	±58				
		MN	7 57 01			±48			
		FE	8 00 ±						
		FN	8 01 ±						
	Apr. 21	ME	15 10 37		±6				Local shock.
		MN	15 10 37			±6			
		FE	15 11 ±						
		FN	15 11 ±						
	Apr. 24	eP	1 14 58						Off Iwaki.
		eFE	1 19 30						
		eFN	1 19 30						
	Apr. 25	P	10 27 31					73	After shock of No. 20.
		L	10 27 41						
		ME	10 27 44		±15				
		MN	10 27 45			±13			

No	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eFE	10 28 30						
		eFN	10 28 30						
256	Apr. 27	P	19 18 02					1025	Northern off Bonin
		L	19 20 18						
		FE	19 34 ±						
		FN	19 34 ±						
257	Apr. 27	P	23 37 52					127	Off Kumihama, Ta Province.
		L	23 38 09						
		ME	23 38 10		±31				
		MN	23 38 10			±15			
		FE	23 39 ±						
		FN	23 39 ±						

SUMOTO JAPAN.

SEISMOLOGICAL BULLETIN

A Branch Station of the Kobe Meteorological Observatory of Japan.
φ=34° 21′ λ=134° 53′ h=109.0 m. Underground: Cretaceous.

Instruments: Omori's Seismograph. (Horizontal Pendulum)

	T_o	ε	$\frac{r}{T_o^2}$	V
AE:	20.0	4.6	0.001	20
AN:	20.0	4.6	0.001	20

Wiechert Seismograph. (Horizontal & Vertical)

	T_o	ε	$\frac{r}{T_o^2}$	V
AE:	4.5	Aperiodic	0.003	80
AN;	4.5	"	0.003	80
AZ:	4.3	"	0.004	80

.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
	Mar. 7	P	9 27 58		+1.1	−6.7	+3.6	168	The great earthquake which occurred in the northwestern part of Tango province. At Sumoto and neighbourhood the houses were strongly shaked, and at some places a slight damage such as the crack of walls happened. All Seismographs were thrown out of order.
		eL	9 28 16						
	Mar. 7	P	9 44 28					168	After shock of No. 35.
		L	9 44 46		−270	−56			
		M	9 44 56	2.3	−320	+1000			
		eF	9 51 01						
	Mar. 7	P	9 51 01					168	Ditto.
		L	9 51 19		−4	+12			
		M	9 51 21		+14	+14			
		eF	9 52 29						
3	Mar. 7	eP	9 52 29					181	Ditto.

*Earthquake felt.

No	Date	Phase	Time G. M. T.	Perlod	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	9 52 54						
		M	9 52 56		+123	+52			
		eF	10 04 56						
39	Mar. 7	P	10 14 10					168	Ditto.
		L	10 14 28						
		F	10 16 56						
40	Mar. 7	P	10 22 54					168	Ditto.
		L	10 23 12		+6	+12			
		M	10 23 12	0.6	−8	+16			
		eF	10 24 22						
41	Mar. 7	P	10 32 51					178	Ditto.
		L	10 33 11		+10	+10			
		M	10 33 12	0.6	−10	+12			
		eF	10 34 27						
42	Mar. 7	P	10 36 45					157	Ditto.
		L	10 37 01		−4	−4			
		eF	10 38 16						
43	Mar. 7	P	10 38 09					168	Ditto.
		L	10 38 27						
		F	10 39 31						
*44	Mar. 7	P	10 47 07		+16	−30		165	Ditto.
		L	10 47 25		+67	−20			
		M	10 47 32		+140	−140			
		F	10 51 56						
45	Mar. 7	eP	11 01 15					168	Ditto.
		L	11 01 36						
		eF	11 02 39						
46	Mar. 7	P	11 22 29					147	Ditto.

No	Date	Phase	Time G. M. T	Perlod	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	11 22 44						
		F	11 24 16						
	Mar. 7	P	11 42 40					165	Ditto.
		L	11 42 58						
		eF	11 44 37						
	Mar. 7	P	11 50 22					130	Ditto.
		L	11 50 35						
		F	11 52 56						
	Mar. 7	P	12 21 44					165	Ditto.
		L	12 22 01						
		F	12 22 44						
	Mar. 7	P	12 22 49					167	Ditto.
		L	12 23 06						
		F	12 25 17						
	Mar. 7	P	13 04 10					156	Ditto.
		L	13 04 26						
		eF	13 05 13						
	Mar. 7	P	13 23 41		−3	+2		157	Ditto.
		L	13 23 57		+26	+16			
		M	13 23 58	1.5	+100	+80			
		F	13 26 56						
	Mar. 7	P	13 28 01					186	Ditto.
		L	13 28 22						
		eF	13 30 56						
	Mar. 7	P	13 45 43					150	Ditto.
		L	13 45 59						
		F	13 47 36						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*55	Mar. 7	P	14 11 46		−2	−3		168	Ditto.
		L	14 12 04		+12	−20			
		M	14 12 04	0.5	−24	+24			
		F	14 14 56						
56	Mar. 7	P	14 20 40					193	Ditto.
		L	14 21 00						
		eF	14 22 25						
*57	Mar. 7	P	15 36 39		+6	−10		162	Ditto.
		eL	15 36 56						
		M	15 37 01		+140	+280			
		F	15 42 20						
58	Mar. 7	P	15 49 09					167	Ditto.
		L	15 49 26						
		eF	15 51 39						
59	Mar. 7	P	16 34 11					192	Ditto.
		L	16 34 30						
		eF	16 37 22						
60	Mar. 7	P	17 04 23					165	Ditto.
		L	17 04 40						
		eF	17 05 22						
61	Mar. 7	P	19 34 14					154	Ditto.
		L	19 34 30						
		eF	19 35 21						
62	Mar. 7	P	19 54 02					168	Ditto.
		L	19 54 20						
		eF	19 55 35						
63	Mar. 7	P	21 21 57					168	Ditto.
		L	21 22 15						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF	21 23 36						
4	Mar. 7	P	21 53 40					154	Ditto.
		L	21 54 56						
		eF	21 55 31						
5	Mar. 7	P	22 16 38					168	Ditto.
		L	22 16 56						
		eFEN	22 18 22						
		eFZ	22 18 26						
6	Mar. 8	P	0 14 57					161	Ditto.
		L	0 15 13		+22	−94	+10		
		MEN	0 15 14	0.5	−42	−98			
		MZ	0 15 15	0.8			−31		
		FEN	0 17 13						
		FZ	0 17 33						
7	Mar. 8	P	1 14 56					161	Ditto.
		L	1 15 12						
		MZ	1 15 12	0.4			−7		
		eFEN	1 16 40						
		eFZ	1 16 41						
8	Mar. 8	P	9 10 57					158	Ditto.
		L	9 11 14						
		eF	9 12 39						
9	Mar. 8	P	10 33 26					154	Ditto.
		L	10 33 41						
		MEN	10 33 44	0.6	−21	−27			
		MZ	10 33 42	0.6			−6		
		FEN	10 35 08						
		FZ	10 35 14						
0	Mar. 8	P	14 43 59					149	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	14 44 14						
		MEN	14 44 17	1.5	−194	+131			
		MZ	14 44 18	1.6			+50		
		FEN	14 06 59						
		eFZ	14 06 59						
*71	Mar. 8	P	23 07 34		+2	+1	−2	149	Ditto.
		L	23 07 49		+4	−17	−8		
		MEN	23 07 52	1.6	−13	+23			
		MZ	23 07 51	1.6			−14		
		eFEN	23 13 41						
		eFZ	23 13 38						
*72	Mar. 9	P	4 25 16					149	Ditto.
		L	4 25 31		+3	−3	+3		
		MEN	4 25 32	0.8	−8	+4			
		MZ	4 25 32	0.4			−4		
		eFEN	4 30 58						
		eFZ	4 30 58						
*73	Mar. 9	P	11 45 04		+3	−2	+3	147	Ditto.
		L	11 45 19		+10	−23	−5		
		MEN	11 45 20	0.6	−16	−25			
		MZ	11 45 24	0.6			−13		
		eFEN	11 46 38						
		eFZ	11 46 33						
74	Mar. 9	P	12 24 46						
		L	12 24 45					180	Ditto.
		eFEN	12 26 32						
		eFZ	12 26 26						
75	Mar. 9	P	13 29 46						
		L	13 30 01					146	Ditto.
		eF	13 31 17						

Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
Mar. 9	P	18 54 29					157	Ditto.
	L	18 54 45						
	eFEN	18 55 37						
	eFZ	18 55 34						
Mar. 9	P	18 55 58					157	Ditto.
	L	18 56 15						
	FEN	18 57 36						
	FZ	18 57 49						
Mar. 9	P	19 46 22					149	Ditto.
	L	19 46 38						
	FEN	19 49 37						
	FZ	19 49 17						
Mar. 9	P	20 27 04		−1.3	−0.6	+1.3	160	Ditto.
	L	20 27 21		−5	−4	−13		
	MEN	20 27 23	1.8	−11	−14			
	MZ	20 27 37	1.8			+15		
	eFEN	20 30 27						
	eFZ	20 30 31						
Mar. 10	P	2 47 39					172	Ditto.
	L	2 47 58						
	eFEN	2 49 11						
	eFZ	2 49 20						
Mar. 10	P	3 01 35					159	Ditto.
	L	3 01 52						
	eFEN	3 02 42						
	eFZ	3 02 40						
Mar. 10	P	4 59 45					151	Ditto.
	L	5 00 01						
	eF	5 00 44						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
83	Mar. 10	P	7 02 34					157	Ditto.
		L	7 02 50						
		eF	7 03 24						
84	Mar. 10	P	11 42 03					154	Ditto.
		L	11 42 19						
		eF	11 42 54						
85	Mar. 10	P	11 58 10					176	Ditto.
		L	11 58 29						
		eF	11 59 18						
86	Mar. 10	P	21 38 41					154	Ditto.
		L	21 38 07						
		F	21 39 29						
*87	Mar. 10	P	22 36 21		+3	−9	+8	153	Ditto.
		L	22 36 37		−58	−50	−3		
		MEN	22 36 38	1.4	+119	−191			
		MZ	22 36 41	1.6			−34		
		CE	22 40 16	3.9	+38				
		CN	22 40 47	3.9		−44			
		eFEN	22 46 58						
		eFZ	22 47 58						
88	Mar. 10	eP	23 43 39					154	Ditto.
		L	23 43 54						
		F	23 44 19						
89	Mar. 11	P	0 37 16					157	Ditto.
		L	0 37 32						
		eF	0 38 14						
*90	Mar. 11	P	0 50 41		−1.3	+1.5	+1.0	167	Ditto.
		L	0 50 58		−24	−15	−1		
		MEN	0 50 59	0.7	+25	−23			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		MZ	0 50 58	0.5			−5		
		eFEN	0 53 18						
		eFZ	0 53 22						
	Mar. 11	eP	1 27 32					170	Ditto.
		L	1 27 50						
		eF	1 28 43						
2	Mar. 11	P	6 14 34		+1.3	+1.0		154	Ditto.
		L	6 14 50		+3	+6			
		M	6 14 51	0.9	+3	+9			
		eF	6 15 31						
3	Mar. 11	P	14 43 29					155	Ditto.
		L	14 43 45						
		F	14 44 24						
4	Mar. 11	P	20 30 24		−4.0	−2.6	+1.3	172	Ditto.
		L	20 30 42		−48	+16	−10		
		ME	20 30 42	1.4	−48				
		MN	20 30 43	1.4		+48			
		MZ	20 30 44	1.0			−14		
		eFEN	20 36 28						
		eFZ	20 36 50						
5	Mar. 12	P	6 28 20		+0.6	−1.3	+0.6	157	Ditto.
		L	6 28 37		+4	+4	−1		
		MEN	6 28 37		−5	−10			
		eFEN	6 30 14						
		eFZ	6 30 18						
6	Mar. 13	P	2 46 52		+1.5	+1.3	−1.3	31	In the Kitan Strait.
		L	2 46 57		+3	+3			
		ME	2 46 57	0.5	−8				
		MN	2 46 58	0.5		−10			
		eFEN	2 47 39						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF_Z	2 47 32						
97	Mar. 13	P	4 38 24					169	After shock of No
		L	4 38 42						
		M_E	4 38 45	0.8	+5				
		M_N	4 38 46	0.8		+4			
		eF	4 39 42						
98	Mar. 13	P	21 46 58						Ditto.
		L	21 47 05						
		M_{EN}	21 47 06	0.3	+2	+6			
		eF_{EN}	21 47 36						
		eF_Z	21 47 33						
99	Mar. 14	P	1 34 32					156	Ditto.
		L	1 34 48						
		M_E	1 34 49		−3				
		M_N	1 34 49			−4			
		eF	1 35 53						
100	Mar. 14	P	3 49 53					148	Ditto.
		L	3 50 09						
		M_{EN}	3 50 09	0.6	−2	−3			
		M_Z	3 50 11	0.6			−4		
		eF_{EN}	3 54 16						
		eF_Z	3 54 19						
101	Mar. 14	P	13 13 22		−0.6	+1.3		149	Ditto.
		L	13 13 37		−3	−3			
		M	13 13 38		+4	+4			
		eF	13 14 46						
102	Mar. 15	P	4 40 28					175	Ditto.
		L	4 40 47						
		eF	4 41 44						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
Mar. 15	P	21 59 26					3576	In the vicinity of Mongolia, China.
	L	22 07 02						
	M	22 07 12		−10	+3			
	eF	22 20 02						
Mar. 16	P	6 54 56					747	Off Miyako, Iwate Prefecture.
	S	6 55 54						
	L	6 56 42						
	M	6 56 27	2.9	+8	−8			
	eF	7 04 02						
Mar. 16	P	19 53 55					162	After shock of No. 35.
	L	19 54 16						
	M_{EN}	19 54 17	0.4	−4	−6			
	eF_{EN}	19 55 20						
	F_Z	19 55 14						
Mar. 17	P	18 06 32					31	In the Kii Channel.
	L	18 06 36						
	eF	18 07 33						
Mar. 18	P	6 17 40					140	After shock of No. 35.
	L	6 17 54						
	M	6 17 54	0.3	−3	−4			
	F	6 18 22						
Mar. 18	P	12 48 12		+1.3	−1.9	+1.5	154	Ditto.
	L	12 48 28		−9	+14	−8		
	M_E	12 48 32	0.8	+4				
	M_N	12 48 30			−41			
	M_Z	12 48 29	1.2			−8		
	F_{EN}	12 54 40						
	eF_Z	12 54 42						
Mar. 18	P	20 18 49					140	Ditto.
	L	20 19 03						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF	20 19 43						
110	Mar. 19	P	10 55 09					157	Ditto.
		L	10 55 25						
		eF	10 57 24						
111	Mar. 20	eP	1 54 52						Ditto.
		L	1 54 56						
		eF	1 55 29						
*112	Mar. 20	P	4 45 37		−1.3	+1.3	−2.5	179	Ditto.
		L	4 45 56		+10	+11	−2		
		ME	4 46 05	1.1	−18				
		MN	4 46 06	1.1		−18			
		MZ	4 46 04	1.1			−4		
		F	4 47 58						
113	Mar. 20	eP	13 47 29					152	Ditto.
		L	13 47 45						
		eF	13 48 32						
114	Mar. 20	eP	14 09 31						South of the Kii Ch
		L	14 09 46						
		eF	14 10 32						
115	Mar. 20	eP	17 42 40					174	After shock of No.
		L	17 42 59						
		eF	17 44 41						
116	Mar. 20	eP	18 17 41						In the Kitan Strait
		L	18 17 57						
		F	18 18 56						
117	Mar. 22	P	3 58 08		+1.3	+1.4		160	After shock of No.
		L	3 58 24		−3	−2			
		M	3 58 28	0.6	+6	−9			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF	4 04 26						
	Mar. 23	P	13 50 45					167	Ditto.
		L	13 51 02						
		M	13 51 04	1.2	−4	+3			
		eF	13 52 13						
	Mar. 23	P	21 51 08		+1.3	−1.3	−0.6	49	In the Kitan Strait.
		L	21 51 15		+5	+8	−2		
		MEN	21 51 21	0.9	−11	+8			
		F	21 54 04						
	Mar. 24	P	0 48 49		−1.4	+3.8	−1.3	44	In the catchment area of the River Naga, Awa Province.
		L	0 48 54		−9	+4	+3		
		MEN	0 49 05	0.6	−14	+35			
		MZ	0 48 56	0.6			−4		
		eF	0 53 14						
	Mar. 24	P	15 35 00					175	After shock of No. 35.
		L	15 35 19						
		eF	15 38 05						
	Mar. 25	P	1 09 53					36	A local shock.
		L	1 09 58						
		M	1 09 58						
		F	1 10 56						
	Mar. 25	P	10 13 50		−0.6	−1.3	−1.5	161	After shock. of No. 35.
		L	10 14 07		+2	−4	−1		
		MEN	10 14 07	0.5	−4	−7			
		F	10 16 53						
	Mar. 26	P	0 36 21		+1.4	−1.3		48	In the Kii Channel
		L	0 36 26		+13	+10	+5		
		MEN	0 36 27	0.6	−19	−31			
		MZ	0 36 28				+5		

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF	0 37 57						
125	Mar. 26	P	14 33 48					97	Ditto.
		L	14 34 01						
		M_E	14 34 01		−10				
		M_N	14 34 01			+18			
		M_Z	14 34 01				±3		
		eF	14 36 19						
126	Mar. 26	P	23 22 39						A local shock.
		L	23 22 55						
		M	23 22 56	0.5	−4	−8			
		F	23 23 04						
127	Mar. 30	P	13 31 04					151	After shock of No.
		L	13 31 19						
		M_E	13 31 21						
		M_N	13 31 22						
		M_Z	13 31 21						
		eF	13 38 24						
128	Mar. 31	P	2 45 47					172	Ditto.
		L	2 46 05						
		eF	2 47 18						
129	Mar. 31	eP	15 22 18						In the Kii Channe
		L	15 22 31						
		M	15 22 34	0.6	−3	−4			
		F	15 22 54						
*130	Mar. 31	P	21 08 57		+13.8	+112.5	+58.9	133	The greatest after
		L	21 09 15		−331	+300	+150		shock of No. 35.
		M_1E	21 09 17	1.2	−640				
		M_1N	21 09 24	1.2		−813			
		M_1Z	21 09 17				−163		
		M_2E	21 11 33	1.2	−313				
		M_2N	21 11 37	1.2		−250			

Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
	M_2E	21 13 18	1.2	−306				
	M_3N	21 13 05			+369			
	eF_{EN}	21 27 24						
	eF_Z	21 22 24						
April 1	P	2 42 07					152	After shock of No. 35.
	L	2 42 22						
	M	2 42 22	0.4	−8	−10			
	eF	2 43 11						
April 1	P	5 50 21					161	Ditto.
	L	5 50 38						
	M	5 50 39	0.5	+4	+4			
	F	5 51 16						
April 1	P	9 23 50		+1.0	−2.5	+1.9	148	Ditto.
	L	9 24 06		−18	+10	+6		
	M	9 24 07	0.6	+33	+40	−9		
	F	9 31 25						
April 1	P	19 16 50					4128	A distant earthquake.
	L	19 25 30						
	eF	19 51 25						
April 1	P	20 55 11		+1.9	−3.1	−5.0	23	NErn part of the Kii Channel.
	L	20 55 14		+15	+35	−6		
	M	20 55 14	0.7	+51	−78	−32		
	F	21 00 16						
April 2	P	11 26 14		+1.4	+1.3	−0.6	235	
	L	11 26 45		−6	−6	−1		
	M	11 26 52	1.4	−19	±11	−3		
	F	11 33 26						
April 3	P	12 18 52					172	After shock of No. 35.
	L	12 19 11						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M	12 19 11	0.6	−2	+4			
		F	12 20 21						
138	April 3	P	13 48 50					629	NErn off Bonin I.
		L	13 50 15						
		F	13 55 28						
139	April 4	P	5 00 53					186	
		L	5 01 13						
		M	5 01 13	0.4	+3	+5			
		F	5 01 57						
140	April 4	P	18 44 16					38	In the Kii Chan
		L	18 44 21						
		M	18 44 22	0.4	+3	+6			
		F	18 44 54						
141	April 6	P	9 27 42					22	Ditto.
		L	9 27 45						
		F	9 28 24						
142	April 6	P	19 47 47					149	Affer shock of N
		L	19 48 02						
		M	19 48 02		+4	+8			
		F	19 48 55						
*143	April 8	P	8 42 46		−1.4	−1.4	+1.0	160	Ditto.
		L	8 43 03		−3	+9	−4		
		ME	8 43 04	0.6	−10				
		MN	8 43 03	0.6		−23			
		MZ	8 43 03	0.6			−5		
		eF	8 50 35						
*144	April 8	P	13 05 49		+2.5	−10.0	+8.1	154	Ditto.
		L	13 06 05		+39	+23	−3		
		ME	13 06 05	0.8	−81				

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		MN	13 06 13	0.8		−48			
		eF	13 17 35						
	April 9	P	0 18 36		+1.3	−1.3		39	Near the mouth of the River Arita, Wakayama Prefecture.
		L	0 18 42		−2	−3	+1		
		M	0 18 42	0.6	+6	−8	+1		
		eF	0 19 20						
	April 10	eP	3 49 26					16	In the Kitan Strait.
		L	3 49 28						
		eF	3 49 41						
	April 10	P	4 20 21					16	Ditto.
		L	4 20 23						
		F	4 21 41						
	April 10	P	15 55 46		−0.6	+1.3	−0.6	156	After shock of No. 35.
		L	15 56 03		−17	−4	+1		
		M	15 56 03	0.4	−17	+17	−2		
		F	15 57 49						
	April 10	P	16 00 17					158	Ditto.
		L	16 00 34						
		F	16 01 08						
	April 12	P	3 31 35		−1.0	+1.1		214	Upper course of the River Masuda, Gifu Prefecture.
		L	3 32 04						
		ME	3 32 10	0.8	−6				
		MN	3 32 15			±4			
		MZ	3 32 11				−1		
		eFE	3 35 32						
		eFZ	3 35 32						
	April 12	eP	11 21 19					21	In the Kitan Strait.
		L	11 21 21		+5	−2			
		eF	11 21 34						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
152	April 12	eP	16 12 41					23	Local shock.
		L	16 12 43		+5	−2			
		eF	16 13 23						
153	April 13	P	13 49 04					2261	A distant earthq probable origin in nesia, Pacific Ocea
		S	13 50 09						
		S_R	13 51 20						
		L	13 53 00		−2	−3			
		M_E	13 54 02	3.9	+10				
		M_N	13 53 41	3.9		−6			
		eF	14 04 34						
154	April 14	P	16 59 59		−1.4	−1.3	−1.3	121	After shock of No.
		L	17 00 15		−1	+5	+3		
		M_E	17 00 19	0.7	+9				
		M_N	17 00 18	0.7		−18			
		M_Z	17 00 18	0.7			−3		
		eF	17 03 52						
155	April 16	P	8 22 17		−1.3	−0.6		859	A distant earthqua
		L	8 24 13		−1	+2			Near Kurile Islands
		eF	8 45 46						
156	April 16	eP	11 57 17						
		L	11 57 30					100	After shock of No.
		M_E	11 57 33	0.4	+6				
		M_N	11 57 30	0.4		+3			
		eF	12 00 11						
157	April 16	eP	13 34 50						
		L	13 35 05		−4	−4	−2	153	Ditto.
		M_E	13 35 07	0.4	+6				
		M_N	13 35 06	0.4		+13			
		M_Z	13 35 06	0.4			+4		
		eF	13 39 32						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km	
April 17	P	6 44 13		−0.6	+0.4	−0.6	157	Ditto.
	L	6 44 30		+2	+1			
	M_E	6 44 31	0.4	−3				
	M_N	6 44 30	0.4		+6			
	M_Z	6 44 31	0.4			+1		
	eF	6 47 21						
April 18	eP	11 25 22					53	Upper course of the River Yodo.
	L	11 25 29		+2	−3			
	M_E	11 25 30	0.3	−3				
	M_N	11 25 31	0.3		+2			
	eF	11 27 10						
April 18	eP	13 36 38					29	A Local shock.
	L	13 36 42		−1	+4			
	M	13 36 43	0.3	±1	±2			
	F	13 37 43						
April 18	eP	15 09 04					33	In the Kii Channel.
	L	15 09 08		+1	−3			
	eF	15 09 53						
April 19	eP	15 51 14					33	Near the mouth of River Kinokawa, Wakayama Prefecture.
	L	15 51 19		+1	+2			
	M	15 51 19	0.4	−4	−4			
	eF	15 52 05						
April 19	P	17 35 06		−7.5	−6.3	−8.5	505	A distant earthquake.
	S	17 36 14		−4	−1			
	L	17 38 02		−15	−8			
	M_{EN}	17 39 16	4.2	−31	+21			
	eF	18 07 13						
April 19	P	20 49 32		−0.4	−1.4		105	After shock of No. 35.
	L	20 49 46		−1.4	+1.4			
	M	20 49 48		−4	−4			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF	20 50 37						
*165	April 20	P	7 56 50		+12.5	−11.3	−12.5	30	In the course of th
		L	7 56 54		+33	+56	+6		Kinokawa, Wakay
		M_{EN}	7 56 50	0.8	−80	+68			Prefecture.
		M_Z	7 56 50				−21		
		eF	7 59 20						
166	April 20	eP	12 32 41					35	Near Wakanoura
		L	12 32 46		+1	+1			Province.
		M	12 32 46	0.3	−1	+2			
		eF	12 33 04						
167	April 20	eP	20 53 09					27	Ditto.
		L	20 53 12		+1	+2			
		M	20 53 14	0.4	−5	−4			
		eF	20 53 45						
168	April 21	eP	10 47 48					33	Lower course of th
		L	10 47 52		−1	+1			Kinokawa, Wakay
		M	10 47 54	0.4	−3	−3			Prefecture.
		F	10 48 09						
169	April 21	P	16 17 01					42	Upper course of
		L	16 17 07		−1	−1			River Gōnogawa, B
		M_E	16 17 08	0.4	+2				Province.
		M_N	16 17 09	0.4		−2			
		eF	16 17 47						
170	April 22	eP	3 32 15						After shock of No
		L	3 32 23		−3	+6			
		M	3 32 24	0.6	+3	+7			
		F	3 32 53						
171	April 23	P	13 25 04					188	Ditto.
		L	13 25 29		−1	+1			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF	13 32 14						
	April 24	P	1 14 19					745	Off Iwaki.
		L	1 16 03		−2	+1			
		M_E	1 16 23	2.1	−4				
		M_N	1 16 38	2.1		−3			
		eF	1 35 01						
	April 25	P	10 27 37					122	After shock of No. 35.
		L	10 27 53		+3	+4			
		M_E	10 27 57	0.4	−6				
		M_N	10 27 57	0.4		+5			
		eF	10 29 42						
	April 27	P	19 18 04					1316	Near Bonin Ils.
		S	19 20 34						
		L	19 22 08						
		M_E	19 24 18	8.1	−10				
		M_N	19 23 07			+18			
		F	19 53 04						
	April 27	P	23 37 58					149	Off Kumihama, Tango Province.
		L	23 38 18		+3	−8	−1		
		M_E	23 38 19	0.7	−5				
		M_N	23 38 20	0.7		−6			
		M_Z	23 38 20	0.7			−2		
		eF	23 41 55						
	April 29	P	0 22 04					21	After shock of No. 35.
		L	0 22 07		−1	+2			
		M	0 22 07	0.4	−1	±3			
		F	0 22 24						

TOYOOKA JAPAN.

SEISMOLOGICAL BULLETIN

A Branch Station of the Kobe Meteorological Observatory of Japan.
φ=35° 32′ λ=134° 49′ h=23.3 m. Underground: Diluvial Series.
Instruments: Wiechert Seismograph.

(Horizontal)

	T_0	ε	$\frac{r}{T_0^2}$	V
A_E:	6.2	Aperiodic	0.002	80
A_N:	6.0	,,	0.001	80

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*23	Mar. 7	P	9 27 44						The great earth which occurred nea mouth of the Rive mo, northwestern p Tango Province; Toy and neighbourhood violent shocks, an Tajima Province incl Toyo-oka and its vi 30 men were kill wounded and 2000 h es damaged. The seismograph stalled at the Toy Meteorological S were all damaged that, till these re tion the observatio after shocks were tinued by the sens of human body.
*24	Mar. 7	P	9 27 50						After shock of No
*25	Mar. 7	P	9 28 30						Ditto.
*26	Mar. 7	P	9 32 33						Ditto.
	Mar. 7	P	9 35 30						Ditto.
	Mar. 7	P	9 36 00						Ditto.
	Mar. 7	P	9 38 33						Ditto.
	Mar. 7	P	9 39 20						Ditto.
	Mar. 7	P	9 41 30						Ditto.
	Mar. 7	P	9 41 33						Ditto.
	Mar. 7	P	9 43 58						Ditto.
	Mar. 7	P	9 44 18						Ditto.
	Mar. 7	P	9 45 57						Ditto.
	Mar. 7	P	9 48 45						Ditto.
	Mar. 7	P	9 49 25						Ditto.
	Mar. 7	P	9 49 40						Ditto.
	Mar. 7	P	9 50 55						Ditto.
	Mar. 7	P	9 52 24						Ditto.
	Mar. 7	P	9 53 06						Ditto.
	Mar. 7	P	9 54 07						Ditto.
	Mar. 7	P	9 56 11						Ditto.
	Mar. 7	P	9 57 39						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*45	Mar. 7	P	10 06 46						Ditto.
*46	Mar. 7	P	10 10 37						Ditto.
*47	Mar. 7	P	10 12 40						Ditto.
*48	Mar. 7	P	10 14 00						Ditto.
*49	Mar. 7	P	10 16 10						Ditto.
*50	Mar. 7	P	10 18 58						Ditto.
*51	Mar. 7	P	10 22 13						Ditto.
*52	Mar. 7	P	10 22 34						Ditto.
*53	Mar. 7	P	10 24 55						Ditto.
*54	Mar. 7	P	10 27 36						Ditto.
*55	Mar. 7	P	10 30 51						Ditto.
*56	Mar. 7	P	10 32 37						Ditto.
*57	Mar. 7	P	10 36 56						Ditto.
*58	Mar. 7	P	10 38 00						Ditto.
*59	Mar. 7	P	10 38 42						Ditto.
*60	Mar. 7	P	10 41 11						Ditto.
*61	Mar. 7	P	10 43 10						Ditto.
*62	Mar. 7	P	10 45 21						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
	Mar. 7	P	10 46 50						Ditto.
	Mar. 7	P	10 49 16						Ditto.
	Mar. 7	P	10 50 09						Ditto.
	Mar. 7	P	10 51 56						Ditto.
	Mar. 7	P	10 52 17						Ditto.
	Mar. 7	P	10 53 26						Ditto.
	Mar. 7	P	10 54 09						Ditto.
	Mar. 7	P	11 00 31						Ditto.
	Mar. 7	P	11 00 58						Ditto
	Mar. 7	P	11 02 30						Ditto.
	Mar. 7	P	11 22 12						Ditto.
	Mar. 7	P	11 22 25						Ditto.
	Mar. 7	P	11 27 07						Ditto.
	Mar. 7	P	11 42 26						Ditto.
	Mar. 7	P	11 42 45						Ditto.
	Mar. 7	P	11 43 08						Ditto.
	Mar. 7	P	11 49 58						Ditto.
	Mar. 7	P	11 54 15						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*81	Mar. 7	P	11 59 23						Ditto.
*82	Mar. 7	P	12 02 02						Ditto.
*83	Mar. 7	P	12 08 15						Ditto.
*84	Mar. 7	P	12 21 30						Ditto.
*85	Mar. 7	P	12 22 37						Ditto.
*86	Mar. 7	P	12 34 06						Ditto.
*87	Mar. 7	P	13 01 05						Ditto.
*88	Mar. 7	P	13 03 55						Ditto.
*89	Mar. 7	P	13 20 10						Ditto.
*90	Mar. 7	P	13 23 50						Ditto.
*91	Mar. 7	P	13 24 25						Ditto.
*92	Mar. 7	P	13 27 25						Ditto.
*93	Mar. 7	P	13 27 48						Ditto.
*94	Mar. 7	P	13 45 35						Ditto.
*95	Mar. 7	P	13 45 51						Ditto.
*96	Mar. 7	P	14 11 27						Ditto.
*97	Mar. 7	P	14 17 46						Ditto.
*98	Mar. 7	P	14 20 25						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
	Mar. 7	P	14 31 00						Ditto.
	Mar. 7	P	14 37 09						Ditto.
	Mar. 7	P	14 40 10						Ditto.
	Mar. 7	P	14 41 53						Ditto.
	Mar. 7	P	14 45 07						Ditto.
	Mar. 7	P	14 45 50						Ditto.
	Mar. 7	P	14 45 54						Ditto.
	Mar. 7	P	14 50 30						Ditto.
	Mar. 7	P	15 19 05						Ditto.
	Mar. 7	P	15 20 02						Ditto.
	Mar. 7	P	15 34 45						Ditto.
	Mar. 7	P	15 36 19						Ditto.
	Mar. 7	P	15 37 11						Ditto.
	Mar. 7	P	15 42 46						Ditto.
	Mar. 7	P	15 44 33						Ditto.
	Mar. 7	P	15 48 49						Ditto.
	Mar. 7	P	16 02 47						Ditto.
	Mar. 7	P	16 04 49						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*117	Mar. 7	P	16 09 12						Ditto.
*118	Mar. 7	P	16 09 43						Ditto.
*119	Mar. 7	P	16 22 05						Ditto.
*120	Mar. 7	P	16 24 08						Ditto.
*121	Mar. 7	P	16 24 49						Ditto.
*122	Mar. 7	P	16 33 58						Ditto.
*123	Mar. 7	P	16 53 37						Ditto.
*124	Mar. 7	P	16 56 40						Ditto.
*125	Mar. 7	P	17 04 07						Ditto.
*126	Mar. 7	P	17 10 15						Ditto.
*127	Mar. 7	P	17 10 45						Ditto.
*128	Mar. 7	P	18 03 15						Ditto.
*129	Mar. 7	P	18 43 10						Ditto.
*130	Mar. 7	P	18 47 13						Ditto.
*131	Mar. 7	P	18 58 02						Ditto.
*132	Mar. 7	P	18 59 31						Ditto.
*133	Mar. 7	P	19 08 03						Ditto.
*134	Mar. 7	P	19 18 47						Ditto.

.	Date	Phase	Time G. M. T.	Pericd	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
	Mar. 7	P	19 26 13						Ditto.
	Mar. 7	P	19 27 39						Ditto.
	Mar. 7	P	19 31 35						Ditto.
	Mar. 7	P	19 34 52						Ditto.
	Mar. 7	P	19 41 07						Ditto.
	Mar. 7	P	19 44 16						Ditto.
	Mar. 7	P	19 50 35						Ditto.
	Mar. 7	P	19 53 45						Ditto.
	Mar. 7	P	19 54 34						Ditto.
4	Mar. 7	P	20 04 35						Ditto.
5	Mar. 7	P	20 15 41						Ditto.
6	Mar. 7	P	21 02 58						Ditto.
7	Mar. 7	P	21 21 36						Ditto.
8	Mar. 7	P	21 53 19						Ditto.
9	Mar. 7	P	22 15 13						Ditto.
0	Mar. 7	P	22 32 06						Ditto.
1	Mar. 7	P	22 34 02						Ditto.
2	Mar. 7	P	23 49 39						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*153	Mar. 8	P	0 02 24						Ditto.
*154	Mar. 8	P	0 07 15						Ditto.
*155	Mar. 8	P	0 13 43						Ditto.
*156	Mar. 8	P	0 19 37						Ditto.
*157	Mar. 8	P	0 22 36						Ditto.
*158	Mar. 8	P	0 24 44						Ditto.
*159	Mar. 8	P	1 07 24						Ditto.
*160	Mar. 8	P	1 14 35						Ditto.
*161	Mar. 8	P	1 32 49						Ditto.
*162	Mar. 8	P	2 03 48						Dilto.
*163	Mar. 8	P	2 07 09						Ditto.
*164	Mar. 8	P	2 17 00						Ditto.
*165	Mar. 8	P	3 07 33						Ditto.
*166	Mar. 8	P	3 35 40						Ditto.
*167	Mar. 8	P	3 47 51						Ditto.
*168	Mar. 8	P	4 26 50						Ditto.
*169	Mar. 8	P	5 13 28						Ditto.
*170	Mar. 8	P	5 49 22						Ditto.

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
Mar. 8	P	6 29 34						Ditto.
Mar. 8	P	7 03 00						Ditto.
Mar. 8	P	7 28 12						Ditto.
Mar. 8	P	7 29 35						Ditto.
Mar. 8	P	7 39 24						Ditto.
Mar. 8	P	7 59 10						Ditto.
Mar. 8	P	9 10 35						Ditto.
Mar. 8	P	9 20 08						Ditto.
Mar. 8	P	10 32 59						Ditto.
Mar. 8	P	10 41 04						Ditto.
Mar. 8	P	11 50 29						Ditto.
Mar. 8	P	12 04 56					34	Ditto.
	LM	12 05 00						
	F	12 05 13						
Mar. 8	P	12 20 29					19	Ditto.
	L	12 20 31						
	F	12 20 42						
Mar. 8	P	12 25 43					36	Ditto.
	L	12 25 48						
Mar. 8	P	12 53 53					7	Ditto.
	L	12 53 54						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
186	Mar. 8	P	12 53 56					14	Ditto.
		L	12 53 58						
		MN	12 54 03						
187	Mar. 8	P	12 57 32					24	Ditto.
		L	12 57 35						
188	Mar. 8	P	12 58 21					26	Ditto.
		L	12 58 25						
		MN	12 58 26						
*189	Mar. 8	P	13 06 51					22	Ditto.
		L	13 06 54						
		eMN	13 06 54			±74			
		FN	13 07 07						
190	Mar. 8	P	13 18 32					18	Ditto.
		L	13 18 34						
191	Mar. 8	L	13 24 52						Ditto.
192	Mar. 8	P	13 25 46					19	Ditto.
		L	13 25 49						
		FN	13 25 56						
193	Mar. 8	L	13 37 26						Ditto.
194	Mar. 8	P	13 44 53					14	Ditto.
		L	13 44 55						
		MN	13 44 56						
		FN	13 45 01						
195	Mar. 8	P	13 45 37					44	Ditto.
		L	13 45 43						
		MN	13 45 43						
		FN	13 45 46						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
6	Mar. 8	P	14 23 34						Ditto.
7	Mar. 8	P	14 25 36						Ditto.
8	Mar. 8	L	14 26 31						Ditto.
9	Mar. 8	P	14 28 15					31	Ditto.
		LMN	14 28 19						
0	Mar. 8	P	14 28 51						Ditto.
1	Mar. 8	P	14 36 03					24	Ditto.
		LMN	14 36 06						
2	Mar. 8	P	14 43 51					24	Ditto.
		LM	14 43 54						
3	Mar. 8	P	14 45 41					24	Ditto.
		LME	14 45 45			±350			
		eFE	14 45 54						
4	Mar. 8	P	14 45 54					22	Ditto.
		L	14 45 57						
5	Mar. 8	P	14 50 33					19	Ditto.
		L	14 50 36						
		FE	14 50 48						
6	Mar. 8	P	14 50 46						Ditto.
7	Mar. 8	P	15 00 07					24	Ditto.
		L	15 00 10						
8	Mar. 8	P	15 00 54					24	Ditto.
		LME	15 00 57			±300			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		FE	15 01 23						
209	Mar. 8	eP	15 01 18						Ditto.
210	Mar. 8	LE	15 07 21						Ditto.
211	Mar. 8	LME	15 07 41						Ditto.
212	Mar. 8	LE	15 08 11						Ditto.
213	Mar. 8	P	15 10 31					24	Ditto.
		L	15 10 34						
		ME	15 10 37		±45				
		FE	15 10 38						
214	Mar. 8	LME	15 18 49						Ditto.
215	Mar. 8	LE	15 20 26						Ditto.
216	Mar. 8	LME	15 51 25						Ditto.
217	Mar. 8	LME	15 56 01						Ditto.
218	Mar. 8	LE	15 58 07						Ditto.
219	Mar. 8	LE	16 02 56						Ditto.
220	Mar. 8	LE	16 15 53						Ditto.
221	Mar. 8	LE	16 23 16						Ditto.
222	Mar. 8	LE	16 47 38						Ditto.
*223	Mar. 8	P	16 53 04						Ditto.
		L	16 53 07					20	Ditto.
		ME	16 53 07		±100				

Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
Mar. 8	LE	17 19 39						Ditto.
Mar. 8	LE	17 21 18						Ditto.
Mar. 8	P	17 40 43					22	Ditto.
	LME	17 40 46		±850				
	FE	17 40 57						
Mar. 8	P	17 42 36					22	Ditto.
	LME	17 42 39		±250				
	FE	17 42 47						
Mar. 8	P	17 48 59					22	Ditto.
	LME	17 49 02						
	FE	17 49 06						
Mar. 8	P	17 52 01						Ditto.
Mar. 8	P	18 00 39					20	Ditto.
	L	18 00 42						
	ME	18 00 42		±750				
	FE	18 01 16						
Mar. 8	P	18 07 13					22	Ditto.
	LME	18 07 15						
	FE	18 07 26						
Mar. 8	P	18 24 10					22	Ditto.
	LME	18 24 13		±105				
	FE	18 24 21						
Mar. 8	P	18 25 18						Ditto.
Mar. 8	LME	19 41 35						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
235	Mar. 8	P	19 24 50					22	Ditto.
		L_{ME}	19 24 53		±65				
		F_E	19 25 01						
236	Mar. 8	P	19 27 37					22	Ditto.
		L	19 27 40						
		F_E	19 27 46						
237	Mar. 8	P	19 40 33					22	Ditto.
		L	19 40 36						
		M_E	19 40 36		±75				
		F_E	19 40 49						
*238	Mar. 8	P	19 45 32					22	Ditto.
		L	19 45 35						
		M_E	19 45 35		±85				
		eF_E	19 45 43						
239	Mar. 8	P	19 46 02						Ditto.
240	Mar. 8	P	19 47 20					22	Ditto.
		LM_E	19 47 23						
		eF_E	19 47 33						
241	Mar. 8	P	19 51 48					24	Ditto.
		LM_E	19 51 51						
		F_E	19 52 02						
242	Mar. 8	P	19 59 45					24	Ditto.
		L	19 59 48						
*243	Mar. 8	P	20 18 16					24	Ditto.
		L	20 18 19						
		eM_E	20 18 20						
		F_E	20 18 51						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
Mar. 8	P	20 24 17					22	Ditto.
	L	20 24 20						
Mar. 8	P	20 50 42					24	Ditto.
	L	20 50 45						
Mar. 8	P	21 10 02						Ditto.
Mar. 8	P	21 33 44					20	Ditto.
	L	21 33 47						
	M_E	21 33 47		±475				
	F_E	21 33 53						
Mar. 8	P	22 19 39					27	Ditto.
	L	22 19 42						
	M_E	22 19 42		±145				
	F_E	22 19 47						
Mar. 8	P	23 03 50						Ditto.
Mar. 8	eP	23 03 58						Ditto.
Mar. 8	eP	23 04 14						Ditto.
Mar.	P	23 07 02					22	Ditto.
	L	23 07 05						
	M	23 07 06		±1450	±2400			
	eF	23 07 48						
Mar. 8	P	23 22 46						Ditto.
Mar. 8	P	23 36 31					36	Ditto.
	L	23 36 36						
	M_N	23 36 37			±326			
	F_E	23 36 42						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
255	Mar. 9	P	0 21 00						Ditto.
256	Mar. 9	P	1 04 00						Ditto.
257	Mar. 9	P	1 10 04					20	Ditto.
		L	1 10 07						
		F	1 10 10						
258	Mar. 9	P	1 10 10					8	Ditto.
		L	1 10 11						
		ME	1 10 11						
259	Mar. 9	L	1 10 20						Ditto.
260	Mar. 9	P	1 13 06						Ditto.
261	Mar. 9	P	1 30 08						Ditto.
*262	Mar. 9	P	1 49 22		+60	+50		27	Ditto.
		L	1 49 25						
		M	1 49 26						
		F	1 49 55						
*263	Mar. 9	P	2 01 39						
		L	2 01 42					22	Ditto.
		FE	2 01 50						
264	Mar. 9	P	2 04 31						
		L	2 04 34						Ditto.
*265	Mar. 9	P	2 54 15						
		LM	2 54 19		±155	±165			Ditto.
266	Mar. 9	P	4 02 25						
							+125		Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
267	Mar. 9	P	4 24 52					3	Ditto.
		L	4 24 55						
		MEN	4 24 55		±985	±1450			
		FE	4 25 21						
268	Mar. 9	PL	4 34 35						Ditto.
269	Mar. 9	PL	4 55 09						Ditto.
270	Mar. 9	PL	4 55 20						Ditto.
271	Mar. 9	PL	5 54 41						Ditto.
272	Mar. 9	PL	5 57 32						Ditto.
273	Mar. 9	P	6 01 57					2	Ditto.
		LM	6 01 54						
		eFE	6 02 03						
273	Mar. 9	PL	6 31 18						Ditto.
274	Mar. 9	PL	6 31 18						Ditto.
275	Mar. 9	P	7 25 30					5	Ditto.
		LM	7 25 33						
276	Mar. 9	PL	7 41 59						Ditto.
277	Mar. 9	PL	9 03 55						Ditto.
		F	9 03 58						
278	Mar. 9	P	10 36 54						Ditto.
279	Mar. 9	PL	10 42 55						Ditto.
280	Mar. 9	P	10 43 22						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
281	Mar. 9	P	11 25 52						Ditto.
		LM	11 25 54						
		FE	11 25 57						
*282	Mar. 9	P	11 44 39			+75		3	Ditto.
		LM	11 44 42		±2050	±2150			
		F	11 45 26						
283	Mar. 9	P	12 01 35						Ditto.
		LM	12 01 38						
		eFE	12 01 42						
*284	Mar. 9	P	13 29 20					3	Ditto.
		L	13 29 23						
		MEN	13 29 23		±1052	±1100			
		FEN	13 29 50						
285	Mar. 9	P	13 30 22					3	Ditto.
		LM	13 30 25		±100	±170			
286	Mar. 9	P	13 51 54						Ditto.
287	Mar. 9	P	14 03 12						Ditto.
288	Mar. 9	P	14 04 46						Ditto.
289	Mar. 9	PL	15 00 39						Ditto.
290	Mar. 9	PL	15 06 06						Ditto.
291	Mar. 9	P	15 18 55						Ditto.
		LM	15 18 58						
		FE	15 19 02						
*292	Mar. 9	P	17 34 16					3	Ditto.

o.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		LM	17 34 19			±180			
03	Mar. 9	P	17 58 55					2	Ditto.
		L	17 58 58						
04	Mar. 9	P	18 54 06					3	Ditto.
		LM	18 54 09		±350	±550			
		FE	18 54 30						
05	Mar. 9	P	18 55 28					4	Ditto.
		L	18 55 32						
		M	18 55 32						
		F	18 55 51						
06	Mar. 9	P	19 45 53					3	Ditto.
		M	19 45 56		±490	±750			
		F	19 46 20						
07	Mar. 9	P	19 50 11						Ditto.
		L	19 50 14						
		F	19 51 10						
08	Mar. 9	P	20 19 54						Ditto.
		L	20 19 57						
09	Mar. 9	P	20 26 38			+155		2	Ditto.
		L	20 26 41						
		M	20 26 42			±2375			
		F	20 27 16						
00	Mar. 9	P	21 01 48					3	Ditto.
		L	21 01 51						
		M	21 01 52		±25	+20			
		F	21 02 01						
01	Mar. 9	P	22 23 17						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	22 23 14						
302	Mar. 9	P	22 27 24						Ditto.
*303	Mar. 9	P	22 36 08					4	Ditto.
		M	22 36 12			±8			
304	Mar. 9	L	22 42 16						Ditto.
305	Mar. 9	P	22 45 26						Ditto.
		L	22 45 29						
		M	22 45 30						
306	Mar. 9	P	23 05 38						Ditto.
*307	Mar. 9	P	23 18 54						Ditto.
		LM	23 18 56						
		F	23 19 02						
308	Mar. 10	P	0 19 24						Ditto.
309	Mar. 10	P	0 21 59						Ditto.
		L	0 22 02						
310	Mar. 10	L	0 22 23						Ditto.
311	Mar. 10	P	0 28 55						Ditto.
*312	Mar. 10	P	1 43 55						Ditto.
		LM	1 43 58					3	
313	Mar. 10	L	2 21 42						Ditto.
314	Mar. 10	P	2 41 50						Ditto.
		LM	2 42 06						
315	Mar. 10	L	2 43 55						Ditto.
316	Mar. 10	P	2 47 17			+4		22	Ditto.
		LM	2 47 20			±80	±75		
		F	2 47 48						
317	Mar. 10	P	3 01 15			+4		22	Ditto.
		LM	3 01 18			±45			
		FE	3 01 28						
318	Mar. 10	PL	3 19 10						Ditto.
319	Mar. 10	P	3 26 32			+3		22	Ditto.
		L	3 26 35						
		M	3 26 35			±45	±65		
		F	3 26 46						
320	Mar. 10	P	4 59 24			−3		22	Ditto.
		LM	4 59 27						
321	Mar. 10	P	5 02 28						Ditto.
		L	5 02 29						
322	Mar. 10	P	5 51 24			−2		30	Ditto.
		LM	5 51 29			±10	±45		
		F	5 51 38						
323	Mar. 10	P	7 02 16						Ditto.
324	Mar. 10	P	7 02 24						Ditto.
325	Mar. 10	P	7 08 43					26	Ditto.
		L	7 08 57						
326	Mar. 10	P	8 49 04						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*327	Mar. 10	P	9 00 59					22	Ditto.
		LM	9 01 02		±25	±25			
		F	9 01 10						
328	Mar. 10	P	10 10 20						Ditto.
		LM	10 10 23						
329	Mar. 10	LM	10 53 31						Ditto.
330	Mar. 10	P	11 19 31		−1				Ditto.
		LM	11 19 34						
*331	Mar. 10	P	11 41 44						Ditto.
		L	11 41 46						
		M	11 41 47			±35			
		F	11 41 53						
332	Mar. 10	P	11 50 44						Ditto.
		L	11 50 47						
		M	11 50 47		±5				
*333	Mar. 10	P	11 57 52						Ditto
		LM	11 57 55			±16			
334	Mar. 10	P	12 11 04						Ditto.
335	Mar. 10	P	12 17 08						
		L	12 17 11						Ditto.
336	Mar. 10	LM	13 21 26						Ditto.
337	Mar. 10	P	13 29 08						
		L	13 29 11						Ditto.
338	Mar. 10	P	13 43 55						
		LM	13 43 58					22	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
339	Mar. 10	P	14 20 32					10	Ditto.
		LM	14 20 33		±12				
		F	14 20 36						
340	Mar. 10	P	16 39 52					20	Ditto.
		L	16 39 55						
		F	16 39 57						
341	Mar. 10	P	17 20 52					20	Ditto.
		L	17 20 54		±8				
342	Mar. 10	P	18 12 40					25	Ditto.
		LM	18 12 44		±10	±18			
		F	18 12 50						
343	Mar. 10	P	18 25 15					15	Ditto.
		L	18 25 16						
		F	18 25 19						
344	Mar. 10	P	18 47 55						Ditto.
		LM	18 47 58		±7				
		F	18 48 03						
345	Mar. 10	P	21 38 28					24	Ditto.
		LM	21 38 31		±19	±20			
		F	21 38 37						
346	Mar. 10	P	22 04 52						Ditto.
347	Mar. 10	PL	22 36 00						Ditto.
348	Mar. 11	P	0 36 55						Ditto.
		L	0 36 57						
		M	0 36 57		±15				
		F	0 37 03						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*349	Mar. 11	P	0 50 20					28	Ditto.
		L	0 50 23						
		M	0 50 24		±100	±83			
		F	0 50 56						
350	Mar. 11	P	0 51 52					28	Ditto.
		L	0 51 55						
351	Mar. 11	P	1 27 17					22	Ditto.
		L	1 27 20						
		M	1 27 20		−11				
		F	1 27 23						
*352	Mar. 11	P	3 18 45					24	Ditto.
		L	3 18 48						
353	Mar. 11	P	4 59 36						Ditto.
*354	Mar 11	P	6 14 16					24	Ditto.
		LM	6 14 20						
		F	6 14 48				±33		
*355	Mar. 11	P	8 19 02					19	Ditto.
		LM	8 19 04						
*356	Mar. 11	P	8 59 16					26	Ditto.
		L	8 59 20						
357	Mar. 11	P	11 38 30						Ditto.
358	Mar. 11	P	13 20 41					22	Ditto.
		L	13 20 44						
359	Mar. 11	P	13 46 41					24	Ditto.
		L	13 46 56						
		M	13 46 34						
)	Mar. 11	PL	14 43 09						Ditto.
	Mar. 11	PL	16 57 17					29	Ditto.
		LM	16 57 21		±12	±20			
2	Mar. 11	P	18 52 38					22	Ditto.
		L	18 52 41						
3	Mar. 11	P	20 30 01					22	Ditto.
		L	20 30 04		±965				
4	Mar. 11	P	22 44 45						Ditto.
		L	22 44 48						
5	Mar. 12	P	0 08 02						Ditto.
		LM	0 08 05						
		F	0 08 07						
6	Mar. 12	P	0 30 18						Ditto.
		LM	0 30 20						
7	Mar. 12	P	0 37 17					36	Ditto.
		LM	0 37 22						
8	Mar. 12	L	1 30 43						Ditto.
9	Mar. 12	LM	2 03 27						Ditto.
0	Mar. 12	L	2 22 56						Ditto.
1	Mar. 12	P	2 23 12					22	Ditto.
		LM	2 23 15						
2	Mar. 12	P	2 30 23						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
373	Mar 12	L	2 44 10						Ditto.
374	Mar. 12	P	3 19 34					34	Ditto.
		LM	3 19 39						
375	Mar. 12	LM	3 21 00						Ditto.
376	Mar. 12	P	5 06 38					25	Ditto.
		L	5 06 41						
377	Mar. 12	P	5 27 00					19	Ditto.
		L	5 27 03						
378	Mar. 12	P	6 28 00					27	Ditto.
		L	6 28 04						
379	Mar. 12	P	7 44 20						Ditto.
380	Mar. 12	PL	8 37 24						Ditto.
381	Mar. 12	P	8 51 25					26	Ditto.
		L	8 51 29						
382	Mar. 12	L	9 12 43						Ditto.
383	Mar. 12	L	9 41 20						Ditto.
384	Mar. 12	P	11 03 22					19	Ditto.
		LM	11 03 24						
		F	11 03 28						
385	Mar. 12	L	12 54 28						Ditto.
386	Mar. 12	P	15 23 54						Ditto.
		L	15 23 57						
387	Mar. 12	P	17 05 15					24	Ditto.
		L	17 05 18						
388	Mar. 12	L	17 10 41						Ditto.
389	Mar. 12	L	17 40 27						Ditto.
390	Mar. 12	P	19 10 44						Ditto.
		L	19 10 46						
		M	19 10 46		+7	+5			
		F	19 10 48						
391	Mar. 12	LM	19 43 05						Ditto.
392	Mar. 12	P	21 30 10					23	Ditto.
		LM	21 20 05						
		F	21 30 25						
393	Mar. 12	LM	21 58 18		±10	±10			Ditto.
394	Mar. 12	LM	22 44 18						Ditto.
395	Mar. 12	P	22 55 46					22	Ditto.
		L	22 55 49						
		F	22 55 54						
396	Mar. 12	LM	23 35 33						Ditto.
		F	23 35 35						
397	Mar. 13	M	0 13 11						Ditto.
398	Mar. 13	P	1 20 30		−2	+8		28	Ditto.
		L	1 20 33						
		M	1 20 33		−10	±30			
		F	1 20 48						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
399	Mar. 13	P	2 09 26					27	Ditto.
		LM	2 09 29			+3			
		F	2 09 35						
400	Mar. 13	P	2 25 03					17	Ditto.
		L	2 25 05						
		M	2 25 05		±6	+4			
		F	2 25 07						
401	Mar. 13	P	3 47 52					33	Ditto.
		L	3 47 56						
*402	Mar. 13	P	4 02 50					28	Ditto.
		L	4 02 53						
		M	4 02 53		−7	+3			
		F	4 02 56						
*403	Mar. 13	P	4 37 04		+2	+4		22	Ditto.
		L	4 37 07						
		M	4 37 08		+20				
		F	4 37 19						
404	Mar. 13	P	6 34 41					22	Ditto.
		LM	6 34 44						
405	Mar. 13	P	6 50 29					25	Ditto.
		L	6 50 32						
		F	6 50 36						
406	Mar. 13	P	7 06 41		+2	+3		25	Ditto.
		L	7 06 44						
		M	7 03 44		±8				
		F	7 16 59						
407	Mar. 13	P	7 19 50		−1			22	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km	
		L	7 19 52						
		F	7 19 55						
8	Mar. 13	P	0 32 39		+1			22	Ditto.
		L	0 32 42						
		F	0 32 45						
9	Mar. 13	P	11 23 18					26	Ditto.
		LM	11 23 21		±7	+2			
		F	11 23 31						
0	Mar. 13	P	11 34 57					27	Ditto.
		LM	11 35 01		±10				
		F	11 35 15						
1	Mar. 13	P	14 27 38					7	Ditto.
		L	14 27 39						
		M	14 27 39		+4				
		F	14 27 42						
2	Mar. 13	P	16 11 21					28	Ditto.
		L	16 11 24						
3	Mar. 13	L	17 14 31						Ditto.
4	Mar. 13	LM	18 53 15						Ditto.
		F	18 53 17						
5	Mar. 13	P	21 46 29					25	Ditto.
		L	21 46 32						
		M	21 46 32		±7				
		F	21 46 40						
6	Mar. 13	P	21 58 19						Ditto.
7	Mar. 13	LM	22 35 38						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
418	Mar. 13	LM	22 51 31						Ditto.
419	Mar. 13	LM	22 52 59						Ditto.
420	Mar. 13	P	23 35 31					22	Ditto.
		L	23 35 33						
421	Mar. 14	P	1 34 08					31	Ditto.
		LM	1 34 12		±12	±21			
		F	1 34 21						
422	Mar. 14	P	3 49 35			+5		22	Ditto.
		L	3 49 37						
		M	3 49 38						
		F	3 50 13						
423	Mar. 14	P	4 21 59					27	Ditto.
		L	4 22 03						
		ME	4 22 03		±40				
		FE	4 22 05						
*424	Mar. 14	P	5 16 11					25	Ditto.
		L	5 16 14						
		ME	5 16 14		±75				
		F	5 16 19						
425	Mar. 14	P	10 33 56					22	Ditto.
		L	10 33 58						
		M	10 33 58						
*426	Mar. 14	P	10 54 06					20	Ditto.
		L	10 54 08						
		M	10 54 08						
		F	10 54 12		+60				

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
427	Mar. 14	M	11 12 47						Ditto.
428	Mar. 14	L	13 13 13						Ditto.
		F	13 13 22						
429	Mar. 14	P	13 30 18					29	Ditto.
		L	13 30 21						
		M	13 30 21						
		F	13 30 23						
430	Mar. 14	M	18 08 32						Ditto.
		F	18 08 39						
431	Mar. 14	P	21 44 05					13	Ditto.
		L	21 44 07						
		M	21 44 07		±50				
		F	21 44 10						
432	Mar. 14	P	22 09 22					22	Ditto.
		L	22 09 24						
		M	22 09 25		−40				
		F	22 09 28						
433	Mar. 15	P	4 40 12					20	Ditto.
		L	4 40 14						
		eM	4 40 15		±255	±375			
		F	4 40 26						
434	Mar. 15	L	4 46 47						Ditto.
		F	4 46 48						
435	Mar. 15	P	5 25 00					15	Ditto.
		L	5 25 02						
		ME	5 25 02		±90				
		F	5 25 04						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
436	Mar. 15	L	5 25 06						Ditto.
		F	5 25 07						
*437	Mar. 15	P	7 20 24					17	Ditto.
		L	7 21 26						
		M	7 21 26			±375			
		F	7 21 45						
438	Mar. 15	P	7 39 42					22	Ditto.
		L	7 39 45						
		ME	7 39 45		−85				
		MN	7 39 46						
		F	7 39 48						
439	Mar. 15	P	7 55 23					22	Ditto.
		L	7 55 25						
		M	7 55 26						
		F	7 55 27						
440	Mar. 15	P	11 34 42					22	Ditto.
		L	11 34 45						
		ME	11 34 45		+50				
		F	11 34 48						
441	Mar. 15	L	12 20 06						Ditto.
		M	12 20 07						
		F	12 20 09						
442	Mar. 15	P	13 39 23					22	Ditto.
		L	13 39 26						
		M	13 39 26		±45	±30			
		F	13 39 29						
443	Mar. 15	L	18 24 20						Ditto.
		M	18 24 20						
		F	18 24 22						

Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
Mar. 15	P	19 34 47					13	Ditto.
	L	19 34 49						
Mar. 15	P	21 36 29					24	Ditto.
	L	21 36 32						
	M	21 36 32		±60				
	F	21 36 34						
Mar. 16	P	0 31 34					8	Ditto.
	L	0 31 35						
	M	0 31 36		±50				
	F	0 31 45						
Mar. 16	P	1 53 15					31	Ditto.
	L	1 53 19						
	eF	1 53 29						
Mar. 16	P	2 07 52						Ditto.
	eF	2 08 01						
Mar. 16	L	2 24 33						Ditto.
	eF	2 24 35						
Mar. 16	L	3 07 28						Ditto.
	F	3 07 30						
Mar. 16	P	3 31 40					25	Ditto.
	L	3 31 43						
	F	3 31 45						
Mar. 16	L	4 40 45						Ditto.
	F	4 40 55						
Mar. 16	P	7 04 13					27	Ditto.
	L	7 04 16						
	ME	7 04 16		±90				

No	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		MN	7 04 16			±75			
		FE	7 04 22						
		FN	7 04 22						
454	Mar. 16	L	8 05 46						Ditto.
		M	8 05 47		−35				
		F	8 05 49						
*455	Mar. 16	P	8 12 46					22	Ditto.
		L	8 12 49						
		M	8 12 49		±85	±95			
		F	8 12 56						
456	Mar. 16	P	8 36 37					22	Ditto.
		L	8 36 40						
		M	8 36 40	0.2	+50				
		F	8 36 43						
*457	Mar. 16	P	8 55 08					29	Ditto.
		L	8 55 11						
		M	8 55 12		±105	±110			
		FE	8 55 19						
		FN	8 55 21						
458	Mar. 16	P	12 25 10					22	Ditto.
		L	12 25 13						
		M	12 25 13		±30				
		eF	12 25 16						
459	Mar. 16	L	14 55 49						Ditto.
		F	14 55 52						
460	Mar. 16	L	15 09 42						Ditfo.
*461	Mar. 16	P	17 32 14					25	Ditto.
		L	17 32 17						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M	17 32 17		±11.0	±6.0			
		F	17 32 23						
2	Mar. 16	P	19 17 20					9	Ditto.
		L	19 17 21						
		M	19 17 21		+60	±15			
		F	19 17 24						
3	Mar. 16	P	19 53 38					25	Ditto.
		L	19 53 41						
		MN	19 53 41			±255			
		F	19 54 16						
4	Mar. 16	P	21 18 36					22	Ditto.
		L	21 18 39						
		eF	21 18 42						
5	Mar. 16	eP	21 52 34					32	Ditto.
		L	21 52 37						
		M	21 52 38		±55				
		F	21 52 40						
6	Mar. 16	P	22 40 45					24	Ditto.
		L	22 40 48						
		eME	22 40 48		−60				
		MN	22 40 48			±90			
7	Mar. 16	L	22 40 53						Ditto.
		MN	22 40 53			±80			
		F	22 46 01						
8	Mar. 17	P	5 14 14					26	Ditto.
		L	5 14 17						
		M	5 14 17		±35				
		FE	5 14 18			−55			
		FN	5 14 20						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
469	Mar. 17	L	8 22 13						Ditto.
		F	8 22 18						
470	Mar. 17	P	8 23 08					13	Ditto.
		L	8 23 10						
		F	8 23 12						
471	Mar. 17	L	11 05 00						Ditto.
		M	11 05 00		−30				
		F	11 05 01						
472	Mar. 17	P	13 40 51						Ditto.
		L	13 40 54						
		F	13 41 01						
473	Mar. 17	P	14 41 35					35	Ditto.
		L	14 41 39						
		F	14 41 44						
*474	Mar. 17	P	15 08 16						Ditto.
		L	15 08 19						
		M	15 08 19			±95			
		F	15 08 24						
*475	Mar. 17	P	17 42 34						
		L	17 42 36					22	Ditto.
		F	17 42 50						
*476	Mar. 17	P	18 06 02						
		L	18 06 06					27	Ditto.
		M	18 06 06						
		F	18 06 16		+125				
477	Mar. 17	L	18 44 24						
		F	18 44 26						Ditto.

Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
Mar. 17	L	20 13 44						Ditto.
Mar. 17	P	21 35 31					22	Ditto.
	L	21 35 34						
	M	21 35 34		−20	+15			
	F	21 35 38						
Mar. 18	P	4 42 45					22	Ditto.
	L	4 42 48						
	eM	4 42 48		±125	±135			
	F	4 42 50						
Mar. 18	P	6 17 19					27	Ditto.
	L	6 17 22						
	M	6 17 22		±60	+135			
	F	6 17 44						
Mar. 18	eP	8 29 03					22	Ditto.
	L	8 29 06						
	eM	8 29 07						
	eF	8 29 08						
Mar. 18	P	12 47 51					32	Ditto.
	L	12 47 55						
	M_N	12 47 55			+550			
	eF	12 48 51						
Mar. 18	P	14 44 10					31	Ditto.
	L	14 44 14						
	M	14 44 14		+45				
	F	14 44 30						
Mar. 18	P	14 55 43					29	Ditto.
	L	14 55 47						
	M	14 55 47		±105	±80			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F	14 55 54						
*486	Mar. 18	P	20 07 40					24	Ditto.
		L	20 07 43						
		M	20 07 43		±150	±280			
		F	20 07 56						
*487	Mar. 18	P	21 29 16					32	Ditto.
		L	21 29 20						
		M_N	21 29 21	0.3		+120			
		F	21 29 28						
488	Mar. 18	P	23 10 54					10	Ditto.
		L	23 10 56						
		M	23 10 56						
		F	23 11 00						
489	Mar. 19	P	3 51 19					29	Ditto.
		L	3 51 23						
		M_N	3 51 23						
		F	3 51 38			±60			
*490	Mar. 19	P	6 50 29					38	Ditto.
		L	6 50 33						
		M	6 50 33		±195	±270			
		F	6 51 12						
*491	Mar. 19	P	9 59 03					22	Ditto.
		L	9 59 06						
		M_E	9 59 06		+80				
		M_N	9 59 06						
		F	9 59 12			+135			
*492	Mar. 19	P	10 54 47					27	Ditto.
		L	10 54 50						
		M	10 54 50		±145	±175			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F	10 54 57						
3	Mar. 19	P	10 55 45					37	Ditto.
		L	10 55 50						
		M	10 55 50		±45	+85			
		F	10 56 04						
4	Mar. 19	P	17 36 34					25	Ditto.
		L	17 36 37						
		M_E	17 36 37		+60				
		M_N	17 36 38			±65			
		F	17 36 42						
5	Mar. 19	P	18 20 38					16	Ditto.
		L	18 20 40						
6	Mar. 20	P	0 52 01					22	Ditto.
		L	0 52 04						
		M	0 52 04		±130	±140			
		F	0 52 10						
7	Mar. 20	P	1 54 16					31	Ditto.
		L	1 54 20						
		M	1 54 20		±295	+135			
		F	1 54 33						
8	Mar. 20	P	2 27 14					29	Ditto.
		L	2 27 17						
		eM	2 27 18						
		F	2 27 23						
9	Mar. 20	P	4 45 14					32	Ditto.
		L	4 45 18						
		M	4 45 18		−325	−280			
		F	4 45 50						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*500	Mar. 20	P	13 55 55					25	Ditto.
		L	13 55 58						
		M	13 55 58		±275	±180			
		F	13 56 06						
*501	Mar. 20	P	13 56 09						Ditto.
		L	13 56 12						
		M	13 56 12						
		F	13 56 24						
*502	Mar. 20	P	13 57 12					22	Ditto.
		L	13 57 15						
		M	13 57 15						
		F	13 57 26						
*503	Mar. 20	P	15 11 53					24	Ditto.
		L	15 11 56						
		M	15 11 56		±215	±180			
		F	15 12 11						
*504	Mar. 20	P	17 42 12					42	Ditto.
		L	17 42 17						
		ME	17 42 18		+90				
		MN	17 42 18			+155			
		F	17 42 33						
*505	Mar. 20	P	17 54 22						Ditto.
		F	17 54 25						
*506	Mar. 20	P	18 54 50						Ditto.
		F	18 54 56						
*507	Mar. 21	P	2 49 42					28	Ditto.
		L	2 49 45						
		MN	2 49 46			+65			
		F	2 49 50						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
508	Mar. 21	P	13 21 36					22	Ditto.
		L	13 21 39						
		M	13 21 39			+65			
		F	13 21 41						
*509	Mar. 21	P	18 17 16					18	Ditto.
		L	18 17 18						
		ME	18 17 19		+155				
		MN	18 17 19			±185			
		F	18 17 29						
510	Mar. 21	P	20 16 44					9	Ditto.
		L	20 16 46						
		M	20 16 46						
511	Mar. 21	P	21 54 01					29	Ditto.
		L	21 54 05						
		M	21 54 05						
*512	Mar. 22	P	3 57 45					27	Ditto.
		L	3 57 49						
		M	3 57 49						
		F	3 58 19						
*513	Mar. 22	P	6 18 19					24	Ditto.
		L	6 18 22						
		M	6 18 23						
		F	6 19 28						
514	Mar. 22	L	11 55 32						Ditto.
		eF	11 55 33						
515	Mar. 22	P	19 48 40					19	Ditto.
		L	19 48 42						
516	Mar. 22	P	20 55 39					22	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	20 55 42						
		M_N	20 55 43			+45			
		F	20 55 50						
*517	Mar. 23	P	3 30 33					29	Ditto.
		L	3 30 37						
		M_E	3 30 37		−110				
		M_N	3 30 37			−60			
		F	3 30 35						
*518	Mar. 23	P	9 52 31					29	Ditto.
		L	9 52 35						
		M	9 52 35		+55	−95			
		F	9 53 44						
519	Mar. 23	P	12 58 42					24	Ditto.
		L	12 58 44						
*520	Mar. 23	P	13 50 28					27	Ditto.
		L	13 50 31						
		M_N	13 50 31			+205			
		F	13 50 44						
*521	Mar. 23	P	16 56 22					27	Ditto.
		L	16 56 25						
		F	16 56 30						
*522	Mar. 23	P	23 41 37					28	Ditto.
		L	23 41 40						
		eM_N	23 41 40						
		F	23 41 54						
523	Mar. 24	P	1 18 37						Ditto.
		L	1 18 40						
		eF	1 18 42						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*524	Mar. 24	P	15 34 39					28	Ditto.
		L	15 34 42						
		M	15 34 42		±475	−400			
		F	15 35 11						
525	Mar. 24	P	19 14 11					27	Ditto.
		L	19 14 14						
		F	19 14 20						
526	Mar. 25	L	0 17 14						Ditto.
		M_N	0 17 14			+30			
		F	0 17 19						
*527	Mar. 25	P	4 36 12					22	Ditto.
		L	4 36 15						
		M_N	4 36 15			±190			
		F	4 36 24						
528	Mar. 25	L	5 16 11						Ditto.
		F	5 16 14						
529	Mar. 25	P	8 40 42					27	Ditto.
		L	8 40 45						
		eM_N	8 40 45						
		F	8 40 51						
*530	Mar. 25	P	10 13 31					25	Ditto.
		L	10 13 34						
		eM	10 13 34		±325	±325			
		F	10 13 52						
531	Mar. 25	P	10 41 58					36	Ditto.
		L	10 42 03						
		M_E	10 42 03		±60				
		eF	10 42 04						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
532	Mar. 25	P	10 43 28					27	Ditto.
		L	10 43 31						
		MN	10 43 31			+15			
		eF	10 43 36						
533	Mar. 25	P	14 16 29					24	Ditto.
		L	14 16 32						
		ME	14 16 32		±40				
		F	14 16 34						
534	Mar. 26	L	15 24 36						Ditto.
535	Mar. 26	P	16 41 41					28	Ditto.
		L	16 41 44						
		MN	16 41 45						
*536	Mar. 27	P	22 07 35					24	Ditto.
		L	22 07 38						
		eME	22 07 38		±40				
		MN	22 07 38			+20			
		F	22 07 41						
537	Mar. 27	P	23 53 47					22	Ditto.
		L	23 53 50						
		eME	23 53 50						
		MN	23 53 51			±55			
		F	23 54 00						
538	Mar. 28	P	5 03 41					23	Ditto.
		L	5 03 44						
		M	5 03 44		±40	−40			
		F	5 03 51						
539	Mar. 28	P	15 52 43					25	Ditto.
		L	15 52 46						
		eME	15 52 47		−30				

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		MN	15 52 47			−65			
		F	15 52 52						
*540	Mar. 28	P	20 06 44					22	Ditto.
		L	20 06 47						
		M	20 06 47		±775	±1175			
		F	20 07 10						
*541	Mar. 29	P	4 21 29					12	Ditto.
		L	4 21 30						
		MN	4 21 30			±90			
		F	4 21 33						
542	Mar. 29	P	13 02 31					31	Ditto.
		L	13 02 35						
		eME	13 02 35		±45				
		MN	13 02 34			+35			
		FE	13 03 36						
		FN	13 02 36						
543	Mar. 29	P	19 23 28					15	Ditto.
		L	19 23 30						
		MN	19 23 30			±40			
		F	19 23 34						
544	Mar. 30	L	7 23 56						Ditto.
		F	7 23 58						
*545	Mar. 30	P	13 30 46					28	Ditto.
		L	13 30 49						
		MN	13 30 50			±525			
		F	13 31 18						
*546	Mar. 30	P	13 57 01					31	Ditto.
		L	13 57 05						
		M	13 57 05						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F	13 57 15						
547	Mar. 30	P	18 34 49					20	Ditto.
		L	18 34 51						
		M	18 34 52		±45	±125			
		F	18 34 52						
*548	Mar. 31	P	0 09 34					27	Ditto.
		L	0 09 37						
		M	0 09 37		±35	±80			
		F	0 09 42						
549	Mar. 31	P	0 13 34					26	Ditto.
		L	0 13 38						
		F	0 13 47						
*550	Mar. 31	P	2 45 20					35	Ditto.
		L	2 45 24						
		MN	2 45 25		±60	±65			
		F	2 45 35						
551	Mar. 31	P	3 14 06					22	Ditto.
		L	3 14 09						
		eMN	3 14 09			+15			
		eF	3 14 13						
552	Mar. 31	L	5 53 51						Ditto.
		eF	5 53 55						
553	Mar. 31	P	7 35 54					22	Ditto.
		L	7 35 56						
		F	7 36 00						
*554	Mar. 31	P	21 08 43					32	The greatest after shock of No. 23; the epicentral region felt strong shocks and suffered some damages.
		L	21 08 46						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
555	Mar. 31	P	21 23 04					27	After shock of No. 23.
		L	21 23 07						
		eF	21 23 09						
556	Mar. 31	eP	21 23 09					16	Ditto.
		L	21 23 11						
		MN	21 23 11			±55			
		FN	21 23 30						
*557	Mar. 31	P	21 29 16					30	Ditto.
		L	21 29 19						
		M	21 29 20			−95			
		F	21 29 28						
558	Mar. 31	P	21 29 38					29	Ditto.
		L	21 29 42						
		M	21 29 42			−75			
		F	21 29 58						
*559	Mar. 31	P	21 31 38					33	Ditto.
		L	21 31 42						
		M	21 31 43						
		F	21 31 52						
560	Mar. 31	P	21 34 15					32	Ditto.
		L	21 34 19						
		M	21 34 20			+20			
		F	21 34 24						
561	Mar. 31	L	21 36 04						Ditto.
		M	21 36 05			+30			
		F	21 36 07						
562	Mar. 31	P	21 36 19					28	Ditto.
		L	21 36 22						
		M	21 36 22			±35			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F	21 36 25						
563	Mar. 31	P	21 46 43						Ditto.
		L	21 46 47						
		M	21 46 47	0.3		−10		32	Ditto.
		F	21 46 56						
564	Mar. 31	L	21 49 20						Ditto.
		M	21 49 20			+20			
		F	21 49 23						
565	Mar. 31	P	21 55 20					29	Ditto.
		L	21 55 24						
		M	21 55 24		−20	−15			
		F	21 55 29						
566	Mar. 31	L	22 01 29						Ditto.
		M	22 01 30			−20			
		F	22 01 32						
*567	Mar. 31	P	22 02 35						
		L	22 02 38					29	Ditto.
		M	22 02 38			±140			
		F	22 02 45						
568	Mar. 31	P	22 13 46						
		L	22 13 50					33	Ditto.
		MN	22 13 51			−55			
		F	22 13 56						
569	Mar. 31	P	22 15 13						
		L	22 15 17					32	Ditto.
		M	22 15 17		−35	−65			
		F	22 15 26						
570	Mar. 31	P	22 23 24						
		L	22 23 28						
		MN	22 23 28			−12			
		FN	22 23 32						
571	Mar. 31	P	22 23 33						
		L	22 23 37					29	Ditto.
		F	22 23 41						
572	Mar. 31	L	22 29 44						
		F	22 29 47						Ditto.
573	Mar. 31	P	22 32 33						
		L	22 32 37					31	Ditto.
		M	22 32 37		−30	+25			
		F	22 32 46						
574	Mar. 31	P	22 41 50						
		L	22 41 54					35	Ditto.
		M	22 41 54		−25	−30			
		F	22 42 00						
575	Mar. 31	P	22 52 40						
		L	22 52 43					30	Ditto.
		M	22 52 44			−75			
		F	22 52 54						
576	Mar. 31	LM	23 13 04						Ditto.
		eF	23 13 07						
577	Mar. 31	P	23 23 10						
		L	23 23 15					38	Ditto.
		F	23 23 08						
578	Mar. 31	P	23 27 00						
		L	23 27 04					32	Ditto.
		M	23 27 04			±55			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F	23 27 10						
579	April 1	L	0 33 34						Ditto.
		M	0 33 34			+25			
580	April 1	P	0 48 59					35	Ditto.
		L	0 49 04						
		M	0 49 03						
		F	0 49 19						
581	April 1	L	0 54 41						Ditto.
		M	0 54 41						
582	April 1	P	1 37 19					32	Ditto.
		L	1 37 23						
		M	1 37 23			±45			
		F	1 37 31						
*583	April 1	P	2 17 36					27	Ditto.
		L	2 17 40						
		M	2 17 40						
		F	2 17 45						
584	April 1	L	2 20 48						Ditto.
		M	2 20 49						
		F	2 20 53						
*585	April 1	P	2 41 46					24	Ditto.
		L	2 41 49						
		M	2 41 50						
		F	2 42 25			±22			
*586	April 1	P	4 27 40						Ditto.
		M	4 27 40						
		F	4 27 48			+40			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*587	April 1	P	5 50 05					28	Ditto.
		L	5 50 09						
		M	5 50 09			±38			
		F	5 50 39						
588	April 1	P	7 25 40					33	Ditto.
		L	7 25 44						
		M_N	7 25 45			+75			
		eF_N	7 25 49						
589	April 1	L	7 53 30					?	Ditto.
		M	7 53 30						
		F	7 53 35						
*590	April 1	P	9 23 36					32	Ditto.
		L	9 23 40						
		M_E	9 23 41		+93	+270			
		M_N	9 23 41						
		F_E	9 25 02						
		F_N	9 24 36						
591	April 1	P	10 24 59					28	Ditto.
		L	10 25 03						
		F	10 25 04						
592	April 1	P	10 53 05					26	Ditto.
		L	10 53 09						
		F	10 53 11						
593	April 1	P	11 28 41					22	Ditto.
		L	11 28 43						
		M	11 28 43			+95			
		F	11 28 57						
594	April 1	P	20 06 37					16	Ditto.
		L	20 06 39						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M	20 06 40						
		eF	20 06 49						
595	April 1	P	23 26 07					198	Upper course of the River Masuda, Gifu Prefecture.
		L	23 26 34						
		M	23 26 37		?	?			
		F	23 27 31						
596	April 2	P	1 29 44						After shock of No. 23.
		L	1 29 48						
		M	1 29 48						
		F_E	1 29 52						
		F_N	1 29 56						
597	April 2	P	2 35 55					34	Ditto.
		L	2 35 59						
		M_E	2 35 59		±65				
		M_N	2 36 01						
		F_E	2 36 13			−60			
		F_N	2 36 07						
598	April 2	P	5 58 55					31	Ditto.
		L	5 58 59						
		M_E	5 58 59		?				
		M_N	5 58 59			?			
		F_E	5 59 04						
		F_N	5 59 03						
599	April 2	P	14 38 49					34	Ditto.
		L_E	14 38 53						
		L_N	14 38 54						
		M_E	14 38 54		+45				
		M_N	14 38 54			−65			
		F_E	14 39 02						
		F_N	14 39 02						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
600	April 2	P	15 05 27					33	Ditto.
		L	15 05 31						
		M	15 05 31		−40	−35			
		F	15 05 36						
601	April 2	P	15 34 54					34	Ditto.
		L	15 34 58						
		M_E	15 34 59		+50				
		M_N	15 34 59			+55			
		F_E	15 35 12						
		F	15 35 09						
602	April 2	P	17 07 14					35	Ditto.
		L	17 07 18						
		M_{NE}	17 07 18		−45	−50			
		eF_E	17 07 45						
		F_N	17 07 30						
603	April 3	P	1 22 08						Ditto.
		L	1 22 11						
		M_{EN}	1 22 11		−50	+80			
		F	1 22 20						
604	April 3	eP	2 26 41					22	Ditto.
		L	2 26 44						
		M	2 26 44		±20	±20			
		F	2 26 49						
605	April 3	P	12 18 33					28	Ditto.
		L	12 18 36						
		M	12 18 36		±135	±200			
		F_E	12 18 59						
		F_N	12 19 15						
606	April 3	P	12 20 05					30	Ditto.
		L	12 20 09						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eME	12 20 09		±20				
		eMN	12 20 08			+20			
		FE	12 20 14						
		eFN	12 20 16						
607	April 3	P	23 25 01					32	Ditto.
		L	23 25 05						
		ME	23 25 05		+25				
		MN	23 25 05						
		FE	23 25 12						
		FN	23 25 12						
608	April 4	L	4 22 50					?	Ditto.
		M	4 22 50		−10	±15			
		eF	4 22 57						
609	April 4	L	6 11 47					?	Ditto.
		F	6 11 54						
610	April 4	P	18 46 13					24	Ditto.
		L	18 46 16						
		M	18 46 16		±30	±60			
		F	18 46 26						
611	April 4	P	20 04 34						Ditto.
		L	20 04 37						
		M	20 04 37		±25				
		F	20 04 44						
612	April 5	P	2 29 26					22	Ditto.
		L	2 29 28						
		ME	2 29 28		±30				
		MN	2 29 29			±35			
		eF	2 29 32						
		FN	2 29 37						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
613	April 5	ePN	6 53 29						Ditto.
		L	6 53 37						
		eFE	6 53 41						
		eFN	6 53 41						
614	April 5	L	7 06 06					?	Ditto.
		F	7 06 11						
615	April 5	P	15 51 37					37	Ditto.
		L	15 51 42						
		M	15 51 42		±25	±20			
		F	15 51 48						
616	April 5	P	17 58 07					32	Ditto.
		L	17 58 11						
		M	17 58 12		?	?			
		F	17 58 21						
617	April 5	P	18 20 22					8	Ditto.
		L	18 20 23						
		ME	18 20 23		±15				
		MN	18 20 24			±20			
		eFE	18 20 27						
		eFN	18 20 29						
618	April 5	P	19 51 20					22	Ditto.
		L	19 51 22						
		M	19 51 22		±30	±20			
		FE	19 51 27						
		FN	19 51 31						
619	April 6	L	2 21 06					?	Ditto.
		eF	2 21 09						
620	April 6	P	2 23 08						
		L	2 23 11						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eM	2 23 11		±15				
		eF	2 23 15						
621	April 6	L	6 54 23					?	Ditto.
		M	6 54 24						
		F	6 54 27						
622	April 6	P	9 47 05						Ditto.
		L	9 47 08						
		ME	9 47 09		±15				
		MN	9 47 08			±25			
		eFE	9 47 12						
		FN	9 47 16						
*623	April 6	P	19 47 28					27	Ditto.
		L	19 47 31						
		M	19 47 31		±35	±115			
		FE	19 47 44						
		FN	19 47 46						
*624	April 6	P	20 37 03					27	Ditto.
		L	20 37 06						
		M	20 37 06		±105	±100			
		F	20 37 19						
625	April 6	P	22 27 04					17	Ditto.
		L	22 27 06						
		M	22 27 06		±5	±15			
		FE	22 27 10						
		FN	22 27 11						
626	April 7	L	0 45 12					?	Ditto.
		M	0 45 12						
		FE	0 45 17						
		FN	0 45 17						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
627	April 7	P	1 19 00					17	Ditto.
		L	1 19 02						
		eME	1 19 03		±5				
		eMN	1 19 02			+10			
		FN	1 19 07						
628	April 7	P	4 14 04					27	Ditto.
		L	4 14 07						
		M	4 14 07		±10	±10			
		FE	4 14 09						
		FN	4 14 12						
629	April 7	L	7 59 10					?	Ditto.
		F	7 59 15						
630	April 7	L	10 33 32					?	Ditto.
		F	10 33 35						
631	April 7	eP	10 37 05					11	Ditto.
		L	10 37 06						
		eF	10 37 09						
632	April 7	P	20 17 02					11	Ditto.
		L	20 17 03						
		MEN	20 17 04						
		eF	20 17 08						
633	April 7	eP	22 13 41						Ditto.
		L	22 13 44						
		eME	22 13 44						
		MN	22 13 44						
		FN	22 13 49						
634	April 7	P	22 24 26					27	Ditto.
		L	22 24 29						
		M	22 24 29		±20	+15			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F	22 24 35						
635	April 8	L	3 42 06					?	Ditto.
		F	3 42 12						
636	April 8	P	4 26 26					32	Ditto.
		L	4 26 30						
		M	4 26 30		±75	±85			
		F_E	4 26 59						
		F_N	4 27 04						
637	April 8	P	6 55 45					30	Ditto.
		L	6 55 49						
		eL_N	6 55 49						
		M_E	6 55 49		±35				
		eM	6 55 49			±90			
		F_E	6 56 00						
		F_N	6 56 02						
638	April 8	P	8 42 29					32	Ditto.
		L	8 42 30						
		M	8 42 40		±400	±350			
		F_E	8 44 04						
		F_N	8 43 31						
639	April 8	P	10 27 54					32	Ditto.
		L	10 27 58						
		M	10 27 59			±15			
		F_E	10 28 03						
		eF_N	10 28 07						
640	April 8	P	10 28 35						Ditto.
		L	10 28 39						
		eF_E	10 28 45						
		eF_N	10 28 47						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*641	April 8	P	13 05 34					32	Ditto.
		L	13 05 38						
		M	13 05 39		±925	±1500			
		eF_E	13 08 16						
		eF_N	13 07 43						
642	April 8	P	14 37 47					19	Ditto.
		L	14 37 49						
		M_E	14 37 50		±170				
		eM_N	14 37 49			±280			
		F_E	14 38 05						
		F_N	14 38 01						
643	April 8	P	19 08 37					24	Ditto.
		L	19 08 40						
		M	19 08 41		±45	±40			
		eF	19 08 45						
644	April 8	P	23 02 50					27	Ditto.
		L_E	23 02 53						
		L_N	23 02 54						
		M_E	23 02 53		±150				
		M_N	23 02 54			+105			
		F	23 03 09						
645	April 9	eP	0 19 00						Near the mouth of the River Arita, Wakayama Prefecture.
		L	0 19 04						
		M_E	0 19 04		±15				
		M_N	0 19 04			±10			
		F	0 19 07						
646	April 9	P	1 33 23					30	After shock of No. 23.
		LM	1 33 27						
		L	1 33 26						
		F	1 33 30						
		eF	1 33 30						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
647	April 9	L	3 04 04						Ditto.
		F	3 04 07						
648	April 9	P	5 53 15						Ditto.
		L	5 53 18						
		M_E	5 53 18		±35				
		M_N	5 53 19			±50			
		F_E	5 53 25						
		F_N	5 53 28						
649	Arpil 9	P	11 01 25					22	Ditto.
		L	11 01 27						
		M_E	11 01 28		±95				
		M_N	11 01 27			±65			
		F	11 01 35						
650	April 9	P	17 31 43					22	Ditto.
		LM	17 31 45			±10			
		F	17 31 53						
651	April 9	P	20 00 10					30	Ditto.
		L	20 00 14						
		M_E	20 00 14		±15				
		F	20 00 26						
652	April 9	P	21 02 57					25	Ditto.
		L	21 03 00						
		M_N	21 03 00			±20			
		F_N	21 03 07						
*653	April 10	P	10 36 34					32	Ditto.
		L	10 36 38						
		M	10 36 38		±75	±50			
		F	10 36 54						
654	April 10	P	10 36 54					32	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	10 36 58						
		M	10 36 58		±30	±30			
		eF	10 37 02						
655	April 9	P	10 37 02					32	Ditto.
		L	10 37 06						
		M	10 37 06		±85	±60			
		eF	10 37 09						
*656	April 9	P	10 37 09					27	Ditto.
		L	10 37 13						
		M	10 37 13		±120	±115			
		F	10 37 28						
567	April 9	L	11 56 39					?	Ditto.
		eF	11 56 41						
*658	April 9	P	11 56 42					24	Ditto.
		LM	11 56 45		±55	±80			
		F	11 56 52						
*659	April 10	P	12 55 25					24	Ditto.
		L	12 55 28						
		M	12 55 28		±600	±725			
		eF	12 56 20						
*660	April 10	P	16 32 30					24	Ditto.
		L	16 32 33						
		M_E	16 32 33		±315				
		M_N	16 32 33			±350			
		eF_E	16 32 49						
		F_N	16 32 48						
*661	April 10	P	17 59 53					27	Ditto.
		L	17 59 56						
		M	17 59 56		±200	±115			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		FE	18 00 06						
		FN	18 00 09						
662	April 10	L	20 56 06					?	Ditto.
		eF	20 56 09						
663	April 10	P	22 46 27					27	Ditto.
		L	22 46 30						
		M	22 46 30		±30	±25			
		F	22 46 37						
664	April 11	P	2 03 13					27	Ditto.
		L	2 03 16						
		M	2 03 16		±15	±15			
		FE	2 03 20						
		FN	2 03 20						
665	April 11	P	2 23 32					32	Ditto.
		L	2 23 26						
		eL	2 23 35						
		ME	2 23 35						
		F	2 23 54						
666	April 11	P	3 46 06					27	Ditto.
		LN	3 46 09						
		LE	3 46 10						
		eM	3 46 10		±25				
		MN	3 46 10			+40			
		eFN	3 46 21						
667	April 11	P	9 54 14					27	Ditto.
		L	9 54 17						
		ME	9 54 17		±25				
		MN	9 54 18			±30			
		FE	9 54 25						
		FN	9 54 24						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*668	April 11	P	11 50 39					24	Ditto.
		L	11 50 42						
		ME	11 50 42		±65				
		MN	11 50 43			±35			
		FE	11 50 55						
		FN	11 50 56						
669	April 11	P	19 19 12					24	Ditto.
		L	19 19 15						
		FE	19 19 18						
		FN	19 19 22						
670	April 11	P	19 30 45					22	Ditto.
		L	19 30 47						
		eMN	19 30 47			±20			
		eFE	19 30 50						
		eFN	19 30 52						
671	April 11	eP	20 06 47					19	Ditto.
		L	20 06 49						
		eME	20 06 49						
		MN	20 06 50			±20			
		F	20 06 54						
		FN	20 06 59						
672	April 12	P	0 33 58					27	Ditto.
		L	0 34 00						
		M	0 34 00		±200				
		F	0 34 14						
673	April 12	P	3 31 28					171	Upper course of the River Masuda, Gifu Prefecture.
		L	3 31 51						
		F	3 33 28						
674	April 12	P	12 21 13					27	After shock of No. 23.
		L	12 21 16						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M	12 21 16						
		FE	12 21 21						
		FN	12 21 20						
675	April 12	P	13 19 07					24	Ditto.
		L	13 19 10						
		M	13 19 10		±25	±40			
		eF	13 19 16						
676	April 12	P	14 12 18					25	Ditto.
		L	14 12 21						
		M	14 12 22			±10			
		F	14 12 24						
677	April 12	P	14 12 18					25	Ditto.
		L	14 12 21						
		M	14 12 22			±10			
		F	14 12 24						
678	April 12	P	15 28 42					25	Ditto.
		L	15 28 46						
		ME	15 28 47			±45			
		MN	15 28 46						
		FN	15 23 59						
679	April 12	L	16 14 09					?	Ditto.
		F	16 14 12						
680	April 12	L	22 06 52					?	Ditto.
		eME	22 06 52						
		eMN	22 06 52		±30				
		eFE	22 07 02						
*681	April 13	P	8 55 17					24	Ditto.
		L	8 55 20						
		M	8 55 20		±160	±105			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		FE	8 55 39						
		FN	8 55 31						
682	April 13	P	12 00 03					24	Ditto.
		L	12 00 06						
		eME	12 00 07		±30				
		eMN	12 00 07			±25			
		FE	12 00 12						
		FN	12 00 14						
683	April 13	P	12 52 18					24	Ditto.
		L	12 52 21						
		eM	12 52 21						
		eFE	12 52 29						
		eF	12 52 24						
684	April 13	P	13 49 21						A distant earthquake.
		eL	13 54 22						
		eF	14 06 00						
685	April 13	P	14 16 34					24	After shock of No. 23.
		L	14 16 37						
		ME	14 16 37		±55				
		MN	14 16 37			±60			
		FE	14 16 43						
		FN	14 16 47						
686	April 13	L	16 17 13						Ditto.
		MN	16 17 13			±10			
		eFE	16 17 19						
		eFN	16 17 17						
687	April 13	P	20 57 20					32	Ditto.
		L	20 57 23						
		M	20 57 24		±25	±45			
		FE	20 57 32						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A E	Amplitude A N	Amplitude A Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F N	20 57 30						
688	April 14	P N	2 25 29					41	Ditto.
		P E	2 25 28						
		L	2 25 34						
		M E	2 25 35		±25				
		M N	2 25 34			+25			
		F E	2 25 47						
		F N	2 25 43						
689	April 14	P E	6 43 58						A distant earthquake.
		eS	6 48 21						
		eL	6 52 08						
		eF E	7 19 00						
690	April 14	P N	12 20 57					24	After shock of No. 23.
		eP E	12 20 59						
		L	12 21 00						
		M E	12 21 01		+35				
		M N	12 21 00			±25			
		F E	12 21 07						
		F N	12 21 07						
691	April 14	P	13 02 18						
		L	13 02 21					24	Ditto.
		F	13 02 26						
*692	April 14	P	16 59 39						
		L	16 59 43					31	Ditto.
		M	16 59 44						
		F E	17 01 36		±400	±425			
		F N	17 00 46						
693	April 14	P	17 44 51						
		L	17 44 54					27	Ditto.
		eM E	17 44 54		±50				

No.	Date	Phase	Time G. M. T.	Period	Amplitude A E	Amplitude A N	Amplitude A Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eM N	17 44 54			±20			
		F E	17 45 01						
		F	17 45 01						
*694	April 14	P	18 51 51					39	Ditto.
		L	18 51 56						
		M	18 51 56		±30	±30			
		F N	18 52 12						
		eF E	18 52 07						
695	April 14	P	19 06 59					22	Ditto.
		L	19 07 02						
		M E	19 07 02		±30				
		M N	19 07 02			±25			
		F E	19 07 05						
		F N	19 07 06						
696	April 14	P	19 56 04					20	Ditto.
		L	19 56 06						
		M E	19 56 07		±15				
		eM N	19 56 06			±20			
		F E	19 56 12						
		eF N	19 56 11						
*697	April 15	P	1 49 23					25	Ditto.
		L	1 49 26						
		M	1 49 27		±80	±100			
		F	1 49 37						
698	April 15	P	5 36 51						Ditto.
		L	5 36 55						
		M	5 36 55		±15	±10			
		F E	5 36 59						
		eF	5 37 00						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
699	April 15	P	19 52 54					24	Ditto.
		L	19 52 56						
		M_E	19 52 57		±65				
		M_N	19 52 57			±50			
		F_E	19 53 05						
		F_N	19 53 03						
700	April 16	P	2 39 49						Ditto.
		L	2 39 51						
		M	2 39 51		±25	±20			
		F	2 39 56						
		eF	2 39 55						
701	April 16	P	6 36 15					22	Ditto.
		L_E	6 36 18						
		L_N	6 36 18						
		M_E	6 36 18		±15				
		M_N	6 36 18			±10			
		F_E	6 36 20						
		F_N	6 36 22						
702	April 16	P	8 22 20						Ditto.
		eS_E	8 27 52						
		eL	8 32 14						
		eF	8 45 00						
*703	April 16	P	11 57 07					27	Ditto.
		L	11 57 11						
		M_E	11 57 11		±150				
		M_N	11 57 11			±85			
		F_E	11 57 30						
		eF	11 57 30						
704	April 16	P	11 57 34					32	Ditto.
		L	11 57 38						
		M	11 57 39		±10	±10			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF_E	11 57 42						
		eF_N	11 57 45						
*705	April 16	P	13 34 30					22	Ditto.
		L	13 34 33						
		M	13 34 34		±1850	±1175			
		eF_E	13 36 50						
		eF_N	13 35 51						
706	April 16	P	13 59 50					19	Ditto.
		L	13 59 52						
		M	13 59 52		±20	±15			
		eF	13 59 55						
		eF_N	13 59 57						
707	April 16	P	16 53 37					19	Ditto.
		L	16 53 40		±15				
		M_E	16 53 40			±15			
		M_N	16 53 40						
		F_E	16 53 44						
		eF_N	16 53 45						
708	April 17	P	4 33 53					22	Ditto.
		L	4 33 55						
		M_E	4 33 56						
		F_E	4 34 01						
*709	April 17	P	6 23 59					27	Ditto.
		LM	6 24 02		±100				
		F_E	6 25 05						
		F_N	6 24 51						
710	April 17	P	10 43 36					24	Ditto.
		LM	10 43 39		±8	±10			
		F	10 43 43						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
711	April 17	P	14 04 19					24	Ditto.
		L	14 04 21						
		M_E	14 04 22						
		M_N	14 04 21						
		F	14 04 16						
712	April 17	P	20 06 59					27	Ditto.
		LM	20 07 02						
		F_E	20 07 07						
		F_N	20 07 05						
713	April 18	P	0 39 12					30	Ditto.
		L	0 39 16						
		M	0 39 16		±30	±20			
		F_E	0 39 23						
		F_N	0 39 24						
*714	April 18	P	9 03 05					27	Ditto.
		L	9 03 08						
		M_E	9 03 09		±115				
		M_N	9 03 09			±150			
		F_E	9 03 27						
		F_N	9 03 26						
715	April 18	P	11 25 14					74	Upper course of the River Yodo.
		L	11 25 25						
		M	11 25 27	0.3	−40	±30			
		F_E	11 25 36						
		F_N	11 25 33						
716	April 18	P	22 18 15						After shock of No. 23.
		L	22 18 18						
		M	22 18 18		±15	±10			
		eF_E	22 18 21						
		F_N	22 18 21						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
717	April 19	P_E	17 35 14					2340	Adistant earthquake.
		P_N	17 35 12						
		eL	17 39 21						
		M	17 40 32	6.5	±95	±60			
		eF	18 01 15						
*718	April 19	P	20 49 14					32	After shock of No. 23.
		L	20 49 18						
		M_1	20 49 24		±130	±160			
		M_2E	20 49 27		±135				
		M_2N	20 49 27			±105			
		F_E	20 49 46						
		F_N	20 50 07						
719	April 20	L	7 57 32						On the drstricts of river Kinokawa in Wakayama Pref.
		F	7 57 39						
*720	April 20	P	19 50 17					24	After shock of No. 23.
		L	19 50 20						
		M_E	19 50 21		±135				
		M_N	19 50 20			±135			
		F	19 50 33						
721	April 20	P	21 32 26					24	Ditto.
		L	21 32 28						
		M	21 32 29		±30	±25			
		F	21 32 35						
		F	21 32 34						
722	April 21	P	2 23 28					30	Ditto.
		L	2 23 31						
		eM	2 23 32						
		eF	2 23 38						
723	April 21	P	7 43 34						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	7 43 37						
		M	7 43 38		±35	±35			
		F	7 43 43						
724	April 21	L	8 21 37						Ditto.
		M	8 21 38						
		eF	8 21 40						
*725	April 22	P	3 31 49					24	Ditto.
		L	3 31 52						
		M	3 31 52		±135	±190			
		F_E	3 32 24						
		F_N	3 32 38						
726	April 22	P	14 08 50					24	Ditto.
		L	14 08 53						
		eM_E	14 08 59						
		M_N	14 08 53			±45			
		F	14 09 02						
727	April 22	P	15 10 00					46	Ditto.
		L	15 10 05						
		M	15 10 06		±65				
		F_E	15 10 19						
		F_N	15 10 24						
728	April 22	P	21 21 17					24	Ditto.
		L	21 21 20						
		M	21 21 20		±40				
		F_E	21 21 21						
729	April 22	eP	22 13 35					30	Ditto.
		eL	22 13 38						
		eF	22 13 45						
730	April 23	P	8 50 52					24	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	8 50 55						
		M	8 50 55		−30	±23			
		F_E	8 51 13						
		F_N	8 51 12						
731	April 23	P	18 01 04		±50	±60			Ditto.
		F_N	18 01 15						
		F_E	18 01 17						
732	April 23	P	19 14 01					24	Ditto.
		L	19 14 04						
		eM	19 14 04						
		F_E	19 14 11						
		eF_N	19 14 07						
733	April 23	P	19 47 03					23	Ditto.
		L	19 47 06						
		M_E	19 47 06		±15				
		M_N	19 47 07			±50			
		F_E	19 47 13						
		F_N	19 47 11						
734	April 24	L	4 28 33						Ditfo.
		M	4 28 34		±18	−15			
		F_E	4 28 36						
		F_N	4 28 39						
735	April 24	P	6 45 29						Ditto.
		L	6 45 32						
		eM	6 45 33		±28	±30			
		F_E	6 45 44						
		F_N	6 45 37						
736	April 24	P	23 37 59					31	Ditto.
		L	23 38 03						
		eM_E	23 38 03		±13				

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_N	23 38 03			±30			
		F_E	23 38 12						
		F_N	23 38 10						
737	April 25	eP	2 58 21					24	Ditto.
		L	2 58 24						
		M	2 58 24		±20	±20			
		F_E	2 58 32						
		F_N	2 58 31						
*738	April 25	P	10 26 22					27	Ditto.
		LM	10 26 25		±300	±410			
		F	10 27 11						
		F_E	10 27 04						
*739	April 25	P	13 08 54					24	Ditto.
		LM	13 08 57		±105	±65			
		F_E	13 09 05						
		F	13 09 08						
740	April 25	P	14 03 37					19	Ditto.
		L	14 03 40						
		F_E	14 04 04						
		F_N	14 04 02						
741	April 25	P	17 45 53					22	Ditto.
		L	17 45 56						
		M	17 45 56		±40	±55			
		F_E	17 45 59						
		F_N	17 46 00						
742	April 25	P	19 36 05					24	Ditto.
		L	19 36 08		±45	±40			
		M	19 36 08						
		F_E	19 36 16						
		F_N	19 36 13						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
743	April 26	LM	6 53 41		±10				Ditto.
		F	6 53 44						
744	April 26	P	6 57 24					17	Ditto.
		L	6 57 26						
		M	6 57 27		±20	±35			
		F_E	6 58 33						
		F_N	6 58 31						
745	April 26	P	12 43 26					24	Ditto.
		LM	12 43 29		−25	±20			
		F_E	12 43 38						
		F_N	12 43 34						
746	April 26	P	14 38 16					30	Ditto.
		L	14 38 19						
		M	14 38 20		±20	±15			
		F	14 38 25						
		eF	14 38 26						
747	April 26	P	14 38 45					26	Ditto.
		L	14 38 48						
		M_E	14 38 49		±20				
		M_N	14 38 48			±18			
		F	14 38 54						
748	April 26	P	17 03 24					24	Ditto.
		L	17 03 27						
		M	17 03 27		±13	±15			
		F_E	17 03 34						
		F_N	17 03 30						
749	April 26	P	22 19 31					30	Ditto.
		L	22 19 35						
		eF	22 19 41						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
750	April 26	P	22 22 37					23	Ditto.
		L	22 22 40						
		M	22 22 40		±18	±20			
		F	22 22 46						
751	April 26	P	23 07 45					37	Ditto.
		L	23 07 49						
		M	23 07 49		±40	±40			
		F_E	23 08 05						
		F_N	23 08 01						
752	April 26	P	23 19 52					24	Ditto.
		LM	23 19 55		±35	±40			
		F_E	23 20 02						
		F_N	23 20 03						
753	April 27	P	17 04 33					27	Off the mouth of the River Maruyama, Tajima Province.
		LM	17 04 37		±30	±50			
		F_E	17 04 43						
		F_N	17 04 59						
754	April 27	P	19 18 11						Northern off of Bonin Is.
		eL	19 20 22						
		L	19 20 59						
		M_1	19 22 25		−120				
		M_2	19 23 51		−130				
		M_3	19 24 29		−105				
		eF_E	19 48 22						
		eF_N	19 40 ±						
755	April 27	P	23 37 35					35	Off Kumihama, Tango Province.
		L	23 37 39						
		M	23 37 40		±180	±250			
		F_E	23 38 38						
		F_N	23 38 17						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*756	April 28	P	7 10 45					25	After shock of No. 23.
		L	7 10 48						
		M	7 10 48		±70	±60			
		F_E	7 11 08						
		F_N	7 11 01						
757	April 28	P	20 11 28					22	Ditto.
		L	20 11 30						
		M	20 11 32		±10				
		F_E	20 11 35						
		F_N	20 11 36						
758	April 29	P	0 03 02						Ditto.
		L	0 03 05						
		M	0 03 06		+50	+40			
		F	0 03 16						
759	April 29	P	0 21 33					24	Ditto.
		L	0 21 35						
		M	0 21 36		±95				
		eM	0 21 36			±75			
		F_E	0 21 46						
		F_N	0 21 52						
760	April 29	L	4 00 29						Ditto.
		F_E	4 00 42						
		eF_N	4 00 32						
761	April 29	P	5 36 17					22	Ditto.
		L	5 36 20						
		eF_E	5 36 23						
		eF_N	5 36 21						
762	April 29	P	8 34 08					27	Ditto.
		L	8 34 11						
		M_E	8 34 11		±8				

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		MN	8 34 12			±10			
		FE	8 34 14						
		FN	8 34 20						
763	April 29	P	8 37 58					27	Ditto.
		L	8 38 02						
		eM	8 38 02		±8				
		MN	8 38 02			±10			
		FE	8 39 06						
		FN	8 39 07						
764	April 29	P	22 51 38					24	Ditto.
		LM	22 51 41						
		F	22 51 51						
765	April 30	P	0 58 32					25	Ditto.
		L	0 58 35						
		M	0 58 36		±10	±10			
		FE	0 58 38						
		FN	0 58 39						
766	Arpil 30	P	3 19 16					24	Ditto.
		LM	3 19 19		±85	±125			
		FE	3 19 30						
		FN	3 19 28						
767	April 30	P	4 30 22					25	Ditto.
		L	4 30 25						
		ME	4 30 26		±40	±50			
		F	4 30 32						
		eFN	4 30 35						
768	April 30	L	5 38 43						Ditto.
		F	5 38 47						
769	April 30	P	13 17 42					22	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eL	13 17 44						
		FE	13 17 40						
		FN	13 17 51						
770	April 30	LM	15 29 11						Ditto.
		F	15 29 17						
771	April 30	P	17 47 03					23	Ditto.
		L	17 47 06						
		M	17 47 06		±45	±45			
		FE	17 47 14						
		FN	17 47 15						
772	April 30	eP	18 09 03					24	Ditto.
		LM	18 09 06		±40				
		L	18 09 06						
		F	18 09 08						
		eF	18 09 12						
773	April 30	L	18 26 43						Ditto.
		eM	18 26 44						
		FE	18 26 52						
		FN	18 26 55						
774	April 30	P	23 49 07					21	Ditto.
		L	23 49 09						
		M	23 49 10		±30	+40			
		FE	23 49 18						
		FN	23 49 25						

SEISMOLOGICAL BULLETIN

OF THE

IMPERIAL MARINE OBSERVATORY

AND

KOBE METEOROLOGICAL OBSERVATORY.

KOBE, JAPAN.

VOL. III. No. 3.

From May 1, 1927 to December 31, 1927.

KOBE

March, 1928.

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KÔBE JAPAN.

SEISMOLOGICAL BULLETIN

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

$\varphi = 34° 41' 18''$ $\lambda = 135° 10' 51''$ h = 58.3 m Undergrouud : Diluvial Series.

Instrument : Omori's Seismograph (Horizontal Pendulum.)

	T_0	ε	$\frac{r}{T_0^2}$	V
A_N:	20		0.003	20
A_E:	20		0.008	20
A_E:	25		0.001	43

Wiechert Seismograph (Horizontal & Vertical)

	T_0	ε	$\frac{r}{T_0^2}$	V
A_E:	5.1	Aperiodic	0.004	80
A_N:	5.2	,,	0.004	80
A_Z:	4.1	,,	0.006	80

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
258	May 3	P	2 48 20					109	After shock of No. 20.
		L	2 48 35						
		M_E	2 48 42		±10				
		M_N	2 48 39			±13			
		F_E	2 49 ±						
		F_N	2 49 ±						
259	May 6	eP	8 20 04						Ditto.
		L	8 20 13						
		M_E	8 20 20		±13				
		M_N	8 20 21			±8			
		eF_E	8 20 40						
		eF_N	8 20 40						
260	May 6	P	16 26 09					117	Near the Mt. Mikunidake, Wakasa Province.
		L	16 26 24						
		M_E	16 26 27		±15				
		M_N	16 26 27			±15			
		F_E	16 27 ±						
		F_N	16 27 ±						

*Earthquake felt.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
261	May 8	ME	0 07 53		±3				After shock of No. 20.
		MN	0 07 53			±5			
		FE	0 08 ±						
		FN	0 08 ±						
262	May 8	P	7 57 38					235	Upper course of Enogawa, NWrn part of Bingo Province.
		L	7 58 05						
		ME	7 58 09	0.6	±313				
		MN	7 58 09	0.6		±418			
		MZ	7 58 09	0.6			±198		
		CE	8 00 28		±48				
		CN	8 00 33	2.6		±3			
		CZ	8 00 26	1.5			±13		
		FE	8 06 ±						
		FN	8 06 ±						
		FZ	8 01 ±						
263	May 9	eP	7 04 48						Upper course of the River Hii, Shimane Province.
		L	7 05 10						
		ME	7 05 13	0.9	±10				
		MN	7 05 14	0.9		±11			
		FE	7 06 ±						
		FN	7 06 ±						
264	May 13	P	8 43 53					85	After shock of No. 20.
		L	8 44 04						
		ME	8 44 08		±25				
		MN	8 44 08			±20			
		eFE	8 45 30						
		eFN	8 45 30						
265	May 13	eP	15 18 15						A distant earthquake, probable origin in Micronesia, North Pacific Ocean.
		FE	15 23 ±						
		FN	15 23 ±						
266	May 14	ME	10 24 44		±6				After shock of No. 20.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		MN	10 24 44			±6			
		FE	10 25 ±						
		FN	10 25 ±						
267	May 16	P	12 02 58						A distant earthquake.
		eL	12 05 55						
		ME	12 08 18	8.4	±10				
		MN	12 08 49			±6			
		FE	12 20 ±						
		FN	12 19 ±						
268	May 16	MN	18 29 57			±3			Local shock.
		FN	18 30 ±						
269	May 17	L	21 48 14						NWrn part of the Japan sea.
		ME	21 50 33	2.5	±10				
		MN	21 51 18	2.6		±6			
		FE	21 55 ±						
		FN	21 56 ±						
270	May 18	eP	2 43 35						In the Kii channel.
		L	2 43 43						
		ME	2 43 44		±13				
		MN	2 43 44			±14			
		eFE	2 44 20						
		eFN	2 44 20						
271	May 19	P	19 19 04					390	Near Titibu, Saitama Prefecture.
		L	19 19 52						
		M_1E	19 20 07	1.6	±48				
		M_1N	19 20 01	1.6		±56			
		M_2E	19 20 14	2.6	±50				
		eFE	19 24 40						
		eFN	19 24 40						
272	May 22	P	22 38 21					3864	Probably in the Micro

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		P_R	22 39 53						nesia, Pacific Ocean.
		S	22 43 03						
		L	22 46 22						
		M_1E	22 49 58	12.0	±544				
		M_1N	22 47 58	13.5		±715			
		M_2E	22 50 58	13.5	±568				
		M_2Z	22 50 58	13.5			±450		
		C_E	23 01 39	10.1	±65				
		C_N	23 02 07	9.8		±35			
		F_E	23 50 ±						
		F_N	23 50 ±						
		F_Z	23 30 ±						
273	May 28	P	19 33 37					88	After shock of No. 20.
		L	19 33 49						
		M_E	19 33 52	0.6	±19				
		M_N	19 33 51	0.6		±15			
		eF_E	19 35 20						
		eF_N	19 35 20						
274	June 3	P	7 19 50					5400	Probably in Micronesia, Pacific Ocean.
		S	7 25 55						
		L	7 31 48						
		M_1E	7 36 04	18.9	±13				
		M_1N	7 36 14	18.9		±11			
		M_1Z	7 36 44	17.5			±19		
		M_2N	7 44 21	16.8		±10			
		M_2Z	7 44 18	17.6			±13		
		F_E	8 16 ±						
		F_N	8 16 ±						
		F_Z	8 16 ±						
275	June 3	P	11 11 53					23	Local shock.
		L	11 11 56						
		F_E	11 11 58						
		F_N	11 11 58						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
276	June 9	eP	3 25 49						Far off the south coast of Japan.
		M_E	3 29 16	2.9	±10				
		M_N	3 29 19	2.9		±6			
		F_E	3 33 ±						
		F_N	3 33 ±						
277	June 12	P	8 20 30					307	Middle part of Honsyu.
		L	8 21 07						
		M_E	8 21 08	1.8	±31				
		M_N	8 21 08	2.0		±90			
		C_N	8 22 24	2.0		±25			
		F_E	8 25 ±						
		F_N	8 25 ±						
278	June 18	eP	2 27 32						SW. off Hatijo I.
		L	2 28 21						
		M_1E	2 28 23	2.5	±90				
		M_1N	2 28 23	2.5		±63			
		M_2E	2 29 36	2.4	±33				
		M_2N	2 29 35	2.4		±40			
		F_E	2 38 ±						
		F_N	2 38 ±						
279	June 25	M_E	14 35 07	0.8	±9				S. off the Izu peninsula.
		M_N	14 35 02	0.8		±4			
		eF_E	14 38 20						
		eF_N	14 38 20						
280	July 1	P	3 21 55					71	In the Kii Channel.
		L	3 22 04						
		M_E	3 22 06	0.8	±31				
		M_N	3 22 06	0.8		+38			
		C_E	3 23 31	1.4	±19				
		C_N	3 23 15	1.7		±13			
		F_E	3 28 ±						
		F_N	3 28 ±						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
281	July 1	P	3 41 59					75	Ditto.
		L	3 42 09						
		M_E	3 42 10						
		M_N	3 42 10	0.6		±13			
		F_E	3 53 ±						
		F_N	3 53 ±						
282	July 1	P	15 28 05					76	After shock of No. 20.
		L	15 28 16						
		M_E	15 28 16	0.5	±19				
		M_N	15 28 16	0.5		±20			
		eF_E	15 29 ±						
		F_N	15 29 ±						
283	July 3	eP	8 21 37						A distant earthquake.
		eS	8 23 20						
		eM_E	8 27 39		±4				
		F_{EN}	8 33 ±						
284	July 4	P	5 23 25					40	S. part of the Osaka Bay.
		L	5 23 31						
		M_E	5 23 32	0.6	±16				
		M_N	5 23 23			±19			
		F_{EN}	5 24 ±						
285	July 4	P	17 10 56					45	Near Himeji.
		L	17 11 02						
		M_1E	17 11 04	0.6	±138				
		M_1N	17 11 02	0.6		±200			
		M_1Z	17 11 03	0.7			±115		
		M_2E	17 11 08	0.7	±100				
		M_2N	17 11 08	0.7		±113			
		F_E	17 14 ±						
		F_N	17 14 ±						
		F_Z	17 14 ±						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
286	July 4	P	17 20 42					42	Ditto.
		L	17 20 48						
		M_E	17 20 49		±10				
		M_N	17 20 49			±15			
		eF_{EN}	17 21 20						
287	July 4	P	17 41 30					42	Ditto.
		L	17 41 36						
		M_E	17 41 37		±6				
		M_N	17 41 37			±10			
		F_E	17 42 1						
		F_N	17 41 51						
288	July 6	P	20 34 54					100	After shock of No. 20.
		L	20 35 08						
		M_E	20 35 10		±25				
		M_N	20 35 09			±16			
		F_{EN}	20 36 ±						
289	July 7	M_E	4 18 30		±5				Near the mouth of the Kinogawa, Wakayama Prefecture.
		M_N	4 18 30			±6			
		F_{EN}	4 19 ±						
290	July 11	eP	8 10 48						E. off the Siriya cape, Aomori Prefecture.
		M_E	8 15 40	3.0	±4				
		M_N	8 15 40	3.0		±10			
		F_{EN}	8 20 ±						
291	July 12	eP	21 10 55						Off the Oti-isi cape, Hokkaido.
		eS	21 13 26						
		eL	21 15 56						
		F_{EN}	21 25 ±						
292	July 16	eP	6 50 32						Upper course of Yoshinogawa, Sikoku.
		L	6 50 34						
		M_N	6 50 36			±28			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		FEN	6 51 ±						
293	July 17	eP	8 53 33						In the Kitan Strait.
		FN	9 02 ±						
294	July 19	ME	22 21 01		±6				Near the mouth of Maruyama, Tajima Province.
		MN	22 21 01	0.6		±6			
		eFEN	22 21 10						
295	July 20	P	3 48 11			−3		89	Upper course of Miya, Ise Province.
		L	3 48 23						
		M_1E	3 48 25	0.6	±56				
		M_1N	3 48 29	0.6		±75			
		M_2N	3 48 39	1.3		±53			
		CE	3 50 30	1.8	±14				
		CN	3 50 30	1.8		±13			
		FEN	3 52 ±						
296	July 22	ME	4 35 03	15.2	±3				A distant earthquake.
		MN	4 35 36	15.9		±6			
		eFEN	4 41 30						
297	July 22	P	4 42 19						
		L	4 42 28					67	Upper course of Kako, Harima Province.
		ME	4 42 29		±25				
		MN	4 42 29			±40			
		eFE	4 43 30						
		FN	4 43 30						
298	July 23	eP	17 22 ±						
		FN	17 30 ±						S. off Kinkazan, Miyagi Prefecture.
299	July 23	eP	20 27 ±						
		FN	20 30 ±						Upper course of Sagami.
300	July 27	P	14 53 05					499	NE. off Hatijo I.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	14 54 13						
		M_1E	14 54 16	2.4	±40				
		M_1N	14 54 16	2.4		±38			
		M_2Z	14 54 40	2.1		±50			
		FEN	15 00 ±						
301	July 30	P	14 19 44					567	In the Sea of Kasima.
		L	14 20 57						
		ME	14 21 14		±150				
		MN	14 21 14			±150			
		FEN	14 33 ±						
302	Aug. 1	P	14 15 12					88	After shock of No. 20.
		L	14 51 23						
		ME	14 51 24		±10				
		MN	14 51 24			±9			
		FEN	14 52 ±						
303	Aug. 4	P	15 55 11						A distant earthquake, probably in the South Sea.
		eFEN	16 03 40						
304	Aug. 4	P	18 12 18					58	In the Kii Channel.
		L	18 12 26						
		ME	18 12 32	0.6	±19				
		MN	18 12 31	0.6		±31			
		eFEN	18 13 30						
305	Aug. 5	P	12 41 01					96	In the Bay of Kumihama, Tango Province.
		L	12 41 14						
		ME	12 41 17	0.6	±90				
		MN	12 41 17	0.6		±100			
		eFEN	12 45 30						
306	Aug. 5	P	21 14 33					662	The epicenter off the mouth of the Abukuma; Isinomaki, Fukusima and
		L	21 16 04						
		M_1E	21 16 29	3.3	±515				

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_1N	21 16 21	2.9		±788			neighbouring places felt a strong shock. This was the moderate earthquake.
		M_2E	21 17 11	2.2	±544				
		M_2N	21 16 44	2.2		±725			
		M_2Z	21 16 41	2.6			±275		
		M_3E	21 18 20	3.3	±750				
		M_3N	21 17 45	2.2		±569			
		M_3Z	21 17 43	2.3			±200		
		eF_{EN}	21 53 30						
		eF_Z	21 48 30						
307	Aug. 8	M_E	18 50 56		±3				In the Sea of Ariake, Kyusyu.
		M_N	18 50 56			±19			
		F_{EN}	18 53 ±						
308	Aug. 10	P	1 12 33						In the Kitan Strait.
		L	1 12 38					39	
		M_E	1 12 40		±28				
		M_N	1 12 40	0.5		±50			
		F_{EN}	1 13 ±						
309	Aug. 10	eP	11 43 19						A distant earthquake, probably in Micronesia. From Omori's seismograph.
		eS	11 48 40						
		eL	11 57 37						
		M_E	11 58 56	17.3	±325				
		M_N	11 58 56	17.3		±725			
		F_{EN}	12 24 ±						
310	Aug. 12	P	0 35 48						NW. off Bonin Ils.
		L	0 37 24					718	
		M_1E	0 37 26	1.9	±94				
		M_1N	0 37 27	2.7		±194			
		M_1Z	0 37 27	2.7			±50		
		M_2E	0 38 15	2.7	±63				
		M_2N	0 38 22	3.0		±94			
		eF_{EN}	0 49 20						
		eF_Z	0 44 20						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
311	Aug. 12	P	1 25 02					48	Near Himeji.
		L	1 25 08						
		M_E	1 25 09	0.6	±106				
		M_N	1 25 09			±106			
		M_Z	1 25 09				±38		
		eF	1 26 20						
312	Aug. 16	P	11 23 09					46	Ditto.
		L	11 23 15						
		M_{EN}	11 23 16			±158			
		M_Z	11 23 16				±96		
		F	11 25 ±						
313	Aug. 16	P	14 15 08					46	In the Sea of Harima.
		L	14 15 14						
		M_E	14 15 15						
		M_N	14 15 15	0.3		±19			
		F_{EN}	14 16 ±						
314	Aug. 18	P	19 29 17					806	Far off the Bōso peninsula.
		S	19 30 08						
		L	19 31 06						
		M_1N	19 32 45	11.5		±300			
		M_2N	19 33 10	10.3		±238			
		eF_N	20 10 20						
315	Aug. 19	P	3 45 06					124	In the Bay of Kumihama.
		L	3 45 22						
		M_E	3 45 23						
		M_N	3 45 23			±13			
		F_{EN}	3 46 ±						
316	Aug. 20	eP	21 38 58						SSE. off Tyosi.
		L	21 41 44						
		M_{EN}	21 42 11	10.5	±19	±30			
		eF_{EN}	21 55 35						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Rematks
			h m s	s	μ	μ	μ	km.	
317	Aug. 20	P	22 13 41					399	In the Sea of Ensyu.
		L	22 14 35						
		MEN	22 14 37	2.6	±50	±38			
		eFE	22 19 35						
		FN	22 19 35						
318	Aug 23	eP	6 30 30					1020	NNE. off Bonin Ils.
		L	6 32 47						
		M_1E	6 35 04	9.0	±83				
		M_1Z	6 34 55	10.4			±63		
		M_2E	6 35 56	8.5	±63				
		M_2N	6 35 55	9.1		±53			
		FEN	7 01 ±						
		FZ	6 56 ±						
319	Aug. 23	P	10 09 06					84	Lower course of the Arita, Wakayama Prefecture.
		L	10 09 17						
		FEN	10 10 ±						
320	Aug. 24	L	5 30 50						SW. off Hatijo I.
		ME	5 30 50		±15				
		MN	5 30 50	0.9		±28			
		CE	5 31 44	2.2	±15				
		CN	5 31 43	2.2		±20			
		FEN	5 36 ±						
321	Aug. 24	P	8 57 36						E. off the Siwoya promontory.
		S	8 59 07						
		ME	9 00 25		±23				
		MN	9 00 31			±23			
		MZ	9 00 32	11.9			±23		
		FEN	9 21 ±						
		FZ	9 16 ±						
322	Aug. 24	P	15 19 39					1282	A distant earthquake.
		L	15 22 32						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		ME	15 22 48	14.4	±5				
		FEN	15 31 ±						
323	Aug. 24	eP	18 13 16						In the southern part of Formosa; at Tainan a strong shock was felt.
		L	18 20 46						
		ME	18 21 23	13.9	±6				
		MN	18 21 20	13.9		±4			
		FEN	18 31 ±						
324	Aug. 26	P	6 00 19					18	Local shock.
		L	6 00 21						
		ME	6 00 21		±36				
		MN	6 00 21	0.6		±38			
		FEN	6 00 39						
325	Aug. 29	eP	5 35 27						E. off the Siwoya promontory.
		ME	5 39 40	7.1	±8				
		MN	5 39 09			±5			
		FEN	5 52 ±						
326	Sept. 4	P	16 09 33					75	In the Kii Channel.
		L	16 09 43						
		ME	16 09 44	0.5	±31				
		MN	16 09 45	0.5		±88			
		MZ	16 09 44				±9		
		F	16 11 ±						
327	Sept. 5	P	0 34 19					485	Near the mouth of Naka, Ibaraki Prefecture. Mito and its vicinity felt a moderate shock.
		L	0 35 24						
		ME	0 35 38	1.4	±28				
		MN	0 35 36	1.4		±60			
		MZ	0 35 35	1.8			±24		
		CE	0 37 35	2.5	±16				
		CN	0 37 22	2.2		±15			
		FEN	0 41 ±						
		FZ	0 39 ±						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
328	Sept. 5	M_E	22 41 15	1.8	±25				Near the Mt. Tanzawa, Sagami Prefecture.
		M_N	22 41 13	1.8		±18			
		F_{EN}	22 42 ±						
329	Sept. 7	eP	10 34 52						Lower course of the Kinu.
		L	10 35 44						
		M_E	10 35 46	2.2	±15				
		M_N	10 35 52	2.2		±16			
		F_{EN}	10 40 ±						
330	Sept. 8	P	9 23 31					47	Lower course of the Kinokawa, Wakayama Prefecture.
		L	9 23 37						
		M_E	9 23 38	0.6	±9				
		M_N	9 23 38	0.6		±13			
		F_{EN}	9 24 ±						
331	Sept. 11	M_1E	22 57 35	23.7	±6				A distant earthquake.
		M_1N	22 57 47	23.7		±6			
		M_2E	23 05 40	14.2	±5				
		M_2N	23 05 24	14.2		±9			
		M_2Z	23 05 31	15.0			±10		
		F_{EN}	23 18 ±						
		F_Z	23 13 ±						
332	Sept. 12	P	15 30 09					291	S. off the Onmae cape.
		L	15 30 48						
		M_1EN	15 30 50	2.3	±81	±103			
		M_1Z	15 30 50	2.3			±31		
		M_2E	15 32 35	2.9	±40				
		M_2N	15 31 59	2.3		±59			
		M_2Z	15 32 34	2.9			±15		
		F	15 36 ±						
333	Sept. 17	M_1E	15 13 17	3.0	±10				W. off Yaku I, Kagoshima Prefecture.
		M_1N	15 13 22	3.0		±10			
		M_2E	15 13 55	3.4	±16				

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_2N	15 13 58	3.4		±9			
		eF_{EN}	15 18 30						
334	Sept. 21	P	12 14 18						In the Sea of Harima.
		eL	12 14 21						
		eM_{EN}	12 14 23		±15	±16			
		eF_E	12 14 30						
335	Sept. 23	P	2 49 12						Upper course of the Masuda, Gifu Prefecture.
		S	2 49 56						
		M_E	2 50 13		±15				
		F_E	2 51 03						
336	Sept. 23	P	3 52 28						Near Wakayama.
		M_E	3 52 33						
		F_E	3 53 16						
337	Sept. 23	M_E	14 20 29					1072	Off the Siriya cape.
338	Sept. 30	P	7 40 39						
		S	7 42 13						
		L	7 43 03						
		M_1E	7 44 39	2.8	±18				
		M_1N	7 44 41	2.8		±12			
		M_1Z	7 43 26	2.8			±5		
		M_2E	7 45 16	2.9	±15				
		M_2N	7 46 20	2.9		±15			
		F_E	7 54 22						
		F_N	7 54 24						
		F_Z	7 49 46						
339	Oct. 7	eP	3 12 45						Local shock.
340	Oct. 8	eP	9 31 33					19	Near Kyoto.
		L	9 31 36						
		M_{EN}	9 31 36		±15	±15			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F_E	9 32 03						
		F_N	9 32 08						
341	Oct. 8	P	12 27 50					1024	E. off Bōso Peninsula
		L	12 30 08						
		M_E	12 31 08	14.4	±110				
		M_N	12 30 34	12.0		±55			
		F_E	12 46 08						
		F_N	12 43 00						
342	Oct. 11	P	1 14 24					503	In the Sea of Kasima
		$\bar{P}$	1 14 28						
		S	1 15 02						
		L	1 15 32						
		M_E	1 17 06	3.1	±35				
		M_N	1 16 59	3.3		±65			
		F_E	1 24 32						
		F_N	1 25 27						
343	Oct. 11	P	6 55 16					62	In the Kitan Strait.
		L	6 55 24						
		M_E	6 55 24		±5				
		M_N	6 55 26			±8			
		F_E	6 56 03						
		F_N	6 55 58						
344	Oct. 11	P	17 33 01					1230	E. off the Erimo promontory.
		S	17 34 15						
		L	17 35 47						
		M_E	17 37 34						
		F_E	17 44 42						
345	Oct. 16	P	6 07 44						Near Gifu.
		M_E	6 08 21	2.1	±10				
		M_N	6 08 21	2.2		±12			
		F_E	6 13 06						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F_N	6 12 47						
346	Oct. 16	P	19 57 06						In the Kitan Strait.
		eL	19 57 11						
		F_E	20 01 05						
		F_N	20 00 47						
347	Oct. 18	P	12 47 07					565	In the Sea of Amakusa.
		S	12 48 14						
		L	12 48 23						
		M_E	12 49 53		±160				
		M_N	12 50 18			±220			
		F_E	12 58 23						
348	Oct. 24	eP	16 10 18					3970	A distant earthquake.
		S	16 14 24						
		L	16 18 28						
		eF$_E$	17 24 22						
349	Oct. 24	eP	19 07 10					1020	SE. far off Bōso Peninsula, From Omori's seismograph.
		eS	19 08 13						
		L	19 09 26						
		M_1E	19 10 21	13.5	±1065				
		M_1N	19 10 51	13.5		±815			
		M_2E	19 12 22		±685				
		C_1E	19 14 36						
		C_1N	19 13 21						
		C_2E	19 17 50						
		F_E	19 39 21						
		F_N	19 44 21						
350	Oct. 25	P	14 28 49					57	Near Wakayama.
		L	14 28 56						
		M_E	14 28 58		±10				
		M_N	14 28 59						
		F$_{EN}$	14 30 ±						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
351	Oct. 27	eP	1 54 54						Misima district, Ettg Province.
		eM_E	1 56 28						
		F_E	1 58 40						
352	Oct. 28	P	15 24 48					990	SE. far off Bōso Peninsula.
		L	15 27 01						
		M_E	15 27 20	14.4	±38				
		M_N	15 27 20	8.4		±38			
		F_E	15 42 40						
353	Nov. 4	eP	14 03 18						A distant earthquake; record indistinct (from Omori's seismograph.)
354	Nov. 4	eP	14 13 25						Ditto.
		F_N	14 22 ±						
355	Nov. 4	eP	14 24 31						Ditto.
		M_1N	14 28 55	12.0		±35			
		M_2N	14 29 31	12.0		±40			
		C_1N	14 31 50	8.4					
		C_2N	14 32 52	7.2					
		C_3N	14 36 51	7.5					
		C_4N	14 39 41	7.5					
		eF	14 47 ±						
356	Nov. 5	P	6 41 21						W. off Isigaki I.
		M_E	6 43 40		±10				
		M_Z	6 41 44						
		F_E	6 48 46						
		F_Z	6 43 45						
357	Nov. 10	P	19 49 07					288	Upper course of the Tenryu.
		L	19 49 45						
		M_E	19 49 45		+25				
		M_N	19 49 45			+34			
		M_Z	19 49 46				±10		

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F_{EN}	19 56 ±						
		F_Z	19 54 ±						
358	Nov. 11	P	2 47 57					120	After shock of No. 20.
		L	2 48 18						
		M_{EN}	2 48 19		±19	±25			
		M_Z	2 48 17				±19		
		eF_E	2 51 ±						
		eF_Z	2 50 ±						
359	Nov. 14	eP	5 09 06					4380	A distant earthquake. From the Omori's seismograph.
		L	5 18 25						
		M_E	5 18 54	13.3	±550				
		C_E	5 20 21						
		eF_E	5 38 ±						
360	Nov. 14	eP	19 47 29						SE. off Bonin Ils.
		eF_E	20 15 ±						
361	Nov. 16	P	21 16 09					3640	A distant earthquake.
		S	21 20 05						
		L	21 23 34						
		M_N	21 25 40	22.2		±625			
		C_N	21 26 19						
		F_N	21 38 ±						
362	Nov. 17	eP	17 05 15						In the Kitan Strait.
		L	17 05 16						
		M_{EN}	17 05 17		±8	±6			
		F_{EN}	17 06 18						
363	Nov. 18	eP	3 29 51						A distent earthquake.
		eM_E	3 41 02						
		eF_E	4 25 30						
364	Dec. 2	P	6 55 15					104	Middle course of the

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	6 55 29						Arita, Wakayama Prefecture.
		ME	6 55 29	1.2	+225				
		MN	6 55 32	1.2		−175			
		MZ	6 55 31	1.1			−104		
		C_1E	6 56 34						
		C_1N	6 56 32						
		C_2EN	6 57 02						
		eFEN	7 07 ±						
		FZ	7 05 ±						
365	Dec. 4	P	3 54 29					572	In the Bay of Tijiw
		L	3 55 46						
		ME	3 55 48	2.0	±25				
		MN	3 56 07	2.1		±28			
		MZ	3 55 50	1.9			±9		
		FEN	4 03 ±						
366	Dec. 4	P	12 19 33					599	Ditto.
		L	12 20 54						
		MN	12 21 02	1.5		±13			
		MZ	12 20 57	1.6			±8		
		FNZ	12 26 ±						
367	Dec. 7	P	9 35 03					445	On the coast of the Sea of Kasima.
		L	9 36 03						
		ME	9 36 30	2.0	±6				
		MN	9 36 22	2.4		±7			
		MZ	9 36 28	2.1			±3		
		FE	9 39 12						
		FN	9 39 30						
		FZ	9 39 12						
368	Dec. 9	eP	3 34 58						Local shock.
		MN	3 35 01			±6			
		FN	3 35 06						

o.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
69	Dec. 10	eP	19 21 44						In the Kitan Strait.
		L	19 21 45						
		ME	19 21 45		±61				
		MN	19 21 45			±20			
		FE	19 22 06						
		FN	19 21 58						
70	Dec. 18	P	19 51 09					655	Middle part of the Japan Sea.
		L	19 52 37						
		ME	19 52 43	1.8	±7				
		MN	19 52 40	2.0		±12			
		FE	19 57 02						
		FN	19 57 37						
71	Dec. 28	eP	18 26 16						A distant earthquake, From the Omori's seismograph.
		S	18 31 13						
		L	18 34 32						
		M_1E	18 35 23	19.2	−80				
		M_1N	18 38 03	15.6		+275			
		M_2E	18 36 33	19.1	+61				
		C_1E	18 39 23						
		C_1N	18 38 38						
		C_2E	18 43 53						
		C_2N	18 45 09						
		FE	20 09 45						
		FN	20 09 43						
72	Dec. 30	P	7 20 27					49	In the Kii channel.
		L	7 20 33						
		ME	7 20 34	0.6	±23				
		MN	7 20 34	0.6		±18			
		eFE	7 21 ±						
		FN	7 21 23						
73	Dec. 31	eP	5 51 40					297	Upper course of the Arakawa.
		L	5 52 21						

SUMOTO JAPAN.

SEISMOLOGICAL BULLETIN

A Branch Station of the Kobe Meteorological Observatory of Japan.
$\varphi = 34^\circ\ 21'$ $\lambda = 134^\circ\ 53'$ h = 109.0 m. Underground: Cretaceous.

Instruments: Omori's Seismograph. (Horizontal Pendulum)

	T_0	ε	$\frac{r}{T_0^2}$	V
A_E:	20.0	4.6	0.001	20
A_N:	20.0	4.6	0.001	20

Wiechert Seismograph. (Horizontal & Vertical)

	T_0	ε	$\frac{r}{T_0^2}$	V
A_E:	4.5	Aperidic	0.003	80
A_N:	4.5	"	0.003	80
A_Z:	4.3	"	0.004	80

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_1E	5 52 45	2.8	±13				
		M_1N	5 52 36	2.0		±28			
		M_2E	5 53 34	2.8	±29				
		M_2N	5 52 47	2.0		±10			
		F_N	5 58 28						
		F_Z	5 58 58						
77	May 1	P	22 54 49				−1	27	Near the mouth of the Kinokawa.
		L	22 54 53		+5	+6	−1		
		M_{EN}	22 54 55	0.4	−9	−9			
		M_Z	22 54 55	0.4			+2		
		eF	22 55 49						
78	May 3	P	2 48 02					61	In the Kii channel.
		L	2 48 11		+2	+1			
		M_{EN}	2 48 11	0.3	+3	−5			
		M_Z	2 48 12						
		eF_{EN}	2 48 41						
		eF_Z	2 48 41						
79	May 3	eP	2 48 41						An after shock of No. 35 (the great North Tango earthquake)
		L	2 48 47		+2	+1			
		M_{EN}	2 48 50	0.3	+3	+3			
		eF	2 49 23						
80	May 4	eP	16 57 47					50	In the Kii channel.
		L	16 57 54		+2	+1			
		M_E	16 57 54	0.3	+2				

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_N	16 57 55	0.3		−3			
		eF	16 58 18						
181	May 6	P	16 26 19		−1.1	−0.5		152	Near the Mt. Mikuri dake, Wakasa Provinc
		L	16 26 39		−2	+1			
		M	16 26 40		−2	+3			
		F	16 27 55						
182	May 8	P	7 57 36		−7.5	+3.8	−2.5	184	Upper course of the Enogawa, NWrn Part of Bingo Province.
		L	7 58 00						
		M_E	7 58 06	1.0	+46				
		M_N	7 58 03	1.0		+100			
		M_Z	7 58 03	1.0			−19		
		eF	8 09 12						
183	May 9	P	6 01 27		−0.6	−1.3	−0.4	30	Lower course of the Kinokawa.
		L	6 01 31		−3	+4	+1		
		M	6 01 31	0.4	−4	±5	−2		
		F	6 02 09						
184	May 10	P	8 40 22					253	In the Bay of Beppu
		L	8 40 56		−1	+3	+1		
		M	8 40 59	0.4	−3	+5	±1		
		eF	8 44 13						
185	May 11	P	0 58 59					14	In the Kitan St.
		L	0 59 00		+1	−2			
		M_{EN}	0 59 03	0.4	−8	−10			
		M_Z	0 59 06	0.4			+3		
		F	0 59 33						
186	May 13	P	8 43 59		−1.3	+1.3	+1.0	111	After shock of No. 3
		L	8 44 14		−6	−3	−1		
		M_{EN}	8 44 15	0.4	−9	−23			
		M_Z	8 44 16	0.4			−2		
		F	8 45 36						
187	May 13	P	15 18 20					2457	A distant earthquake, probably in the South Seas.
		eS	15 20 46						
		eL	15 22 45						
		eF	16 00 17						
188	May 13	P	23 16 36		−5.0	−3.8		966	Ditto.
		S	23 17 33		−2	+1			
		L	23 18 37		−1	+1			
		M_{EN}	23 22 29	5.0	−13	+22			
		eF	23 16 36						
189	May 16	eP	12 02 58					2283	A distant earthquake.
		eS	12 05 10						
		eL	12 06 57						
		M_E	12 07 59		−7				
		M_N	12 08 16			+19			
		F	12 55 41						
190	May 16	P	16 25 47					28	In the Kitan St.
		L	16 25 50		+1	+4	−1		
		M	16 25 51						
		F	16 26 37						
191	May 17	P	21 46 33		−1.4	+1.4		797	NW.rn part of the Japan Sea.
		L	21 48 21		−4	−1			
		M	21 48 21	2.5	+8	+14			
		F	22 00 21						
192	May 18	P	2 43 30		+1.3	−1.3	−1.9	32	In the Kii channel.
		L	2 43 34		−3	+3	−2		
		M_{EN}	2 43 34	0.4	+10	+16			
		M_Z	2 43 36	0.4			−3		
		F	2 44 37						
193	May 18	eP	17 19 46					94	West. part of the Aki Bay.
		L	17 19 50		−1	+1			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF	17 22 29						
194	May 19	eP	19 19 10					418	In the environs of Titibu, Saitama Prefecture.
		L	19 20 06		−13	+8			
		M	19 20 06		±17	+23			
		F	19 28 58						
195	May 21	P	17 06 54		+1.3	+1.5	−0.6	38	Upper course of the Arita, kii Province,
		L	17 06 59		+3	+3	+1		
		M	17 07 00	0.6	±4	−6	+2		
		FEN	17 08 05						
		FZ	17 07 14						
196	May 22	P	3 27 17					25	In the Kitan St.
		L	3 27 20		+4	+4			
		ME	3 27 20		±4				
		MN	3 27 21			−7			
		MZ	3 27 21				−2		
		eF	3 27 51						
197	May 22	P	12 01 37					2354	A distant earthpuake probably in Micronesi North pacific Ocean.
		L	12 05 47						
		eF	12 35 24						
198	May 22	P	22 38 25					4055	Ditto.
		S	22 42 55		+69	−75	+53		
		L	22 46 55		+275	−625	−338		
		M	22 49 25	12.0	−6400	−4926	−525		
		eF	1 00 25						
199	May 28	P	19 33 41		−0.6	−0.4	+0.4	122	An after shock of N 35.
		L	19 33 58		+2	−2	−1		
		MEN	19 33 58	0.6	−3	+3			
		MZ	19 33 59	0.6			−1		
		eF	19 35 11						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Rematks
			h m s	s	μ	μ	μ	km.	
0	June 3	P	7 19 47		−1.3	−1.5	−1.5	3031	In Micronesia, North pacific Ocean.
		S	7 22 40		+9	+17			
		L	7 25 41		−29	+52			
		M_1EN	7 25 41		−119	−148			
		MZ	7 26 10				−20		
		M_2EN	7 29 25		−70	±91			
		eF	8 45 39						
1	June 5	P	15 33 10					23	In the Kitan St.
		L	15 33 13		+2	+4	−1		
		MEN	15 33 13	0.3	−4	+5			
		MZ	15 33 15	0.3			−1		
		F	15 33 36						
02	June 9	P	3 25 34		−1.4	−1.3	−0.6	602	Far off the south coast of Japan.
		L	3 26 55		−1	+1	+1		
		MEN	3 27 30		+4	+6			
		MZ	3 27 41				−3		
		eF	3 34 17						
03	June 10	P	18 16 42		+0.4	−0.4	+0.4	1751	SE. off Nemuro.
		L	18 19 20		−1	−1	−1		
		M	18 19 21		+3	−1			
		eF	18 25 30						
04	June 12	eP	8 20 49					282	Middle part of Honsyu.
		L	8 21 27		+13	−6	+3		
		ME	8 21 28	1.6	−23				
		MN	8 21 29	1.6		+16			
		MZ	8 21 28	1.6			−3		
		eF	8 27 41						
205	June 16	P	9 03 34		+1.0	−1.3	−0.6	19	In the Kitan St.
		L	9 03 36		+30	+16	+3		
		MEN	9 03 37	0.4	+34	+36			
		MZ	9 03 37	0.4			+8		

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF	9 04 44						
206	June 17	P	14 41 42		+0.6	−0.6		36	In the Kii channel
		L	14 41 46		−1	+1			
		MEN	14 41 48	0.4	+2	+2			
		MZ	14 41 50	0.4			+1		
		eF	14 42 21						
207	June 18	P	2 27 20		−7.9	+2.8	+6.3	343	W. off Hatijo I.
		L	2 28 06		−3	−2	−2		
		MEN	2 28 12	2.8	−11	+26			
		MZ	2 28 19	2.8			−2		
		eF	2 36 00						
208	June 20	eP	14 18 34					3403	A distant earthqua
		eS	14 21 16						
		eL	14 25 24						
		F	14 40 04						
209	June 21	eP	9 07 51					72	In the Kii channel.
		L	9 08 01		−3	+3			
		MEN	9 08 01	0.4	−3	+5			
		MZ	9 08 02				+1		
		eF	9 08 41						
210	June 22	eP	1 36 25					35	A Local Shock.
		L	1 36 30		−1	+5	−1		
		M	1 36 30	0.4	+4	−8	+1		
		F	1 36 51						
211	June 24	eP	1 04 10					31	Ditto.
		L	1 04 14		+1	+1	+1		
		MEN	1 04 15		−3	−5			
		MZ	1 04 16				±1		
		eF	1 04 53						

.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
2	June 25	P	14 34 33		+0.6	−0.8		154	S. off Izu Peninsula.
		L	14 34 54		−1	+1			
		M	14 35 04	0.6	+3	−3			
		eF	14 38 42						
3	July 1	eP	3 21 47					53	In the Kii Channel.
		L	3 21 54		+16	−14	+4		
		M	3 21 54	0.4	+28	−39	−5		
		eF	3 25 48						
4	July 1	P	3 41 51		+0.6	+0.4	−0.6	46	Ditto.
		L	3 41 58		+7	−5	+1		
		MEN	3 41 58	0.5	−13	−13			
		MZ	3 41 58	0.5			+2		
		eF	3 42 54						
5	July 1	P	15 28 05		−0.6	+1.3	−0.6	140	An after shock of No. 35.
		L	15 28 24		−3	−2	+1		
		MEN	15 28 26		+3	+4			
		MZ	15 28 25				+1		
		eF	15 29 18						
6	July 3	P	8 21 44		−1.3	−2.5	−2.5	965	A distant earthquake.
		S	8 23 44		−1	−3			
		L	8 25 44		−1	+3			
		MEN	8 26 13	8.0	+4	+6			
		eF	8 35 56						
7	July 3	eP	12 26 54					24	Near the mouth of the Kinokawa, Wakayama Prefecture.
		L	12 26 57		+1	+1			
		MEN	12 27 58	0.3	−4	−3			
		F	12 27 24						
8	July 4	P	5 23 14		+0.6	−1.0	+1.3	31	S. Part of the Osaka Bay.
		L	5 23 18		−2	−6	−2		
		MEN	5 23 19	0.3	+9	+11			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		Mz	5 23 19	0.3			−3		
		F	5 26 11						
219	July 4	P	13 06 51		−1.6	+1.3	+2.5		
		L	13 07 30		−6	−3	−1		
		M	13 07 32	2.0	+8	+5	+2		
		F	13 12 43						
220	July 4	P	17 11 00		+6.5	−8.8	+8.8	64	Near Himeji.
		L	17 11 08		+18	+13	−3		
		MEN	17 11 09	0.8	−24	−25			
		Mz	17 11 10	0.8			−8		
		F	17 19 54						
221	July 4	P	17 20 45		+0.4	−0.6	+0.4	64	Ditto.
		L	17 20 54		−1	+1	−1		
		M	17 20 55	0.3	−2	+4	+1		
		F	17 23 37						
222	July 4	P	17 41 34		+0.4	−1.2	+0.6	61	Ditto.
		L	17 41 42		+2	+3	+1		
		MEN	17 41 43	0.3	±2	+3			
		Mz	17 41 43	0.3			−1		
		F	17 42 04						
223	July 6	P	20 35 00		−0.3	+0.6	−0.4	166	An after shock of M 35.
		L	20 35 18		+8	+3	+1		
		MEN	20 35 18	0.4	−10	−8			
		Mz	20 35 19	0.4			−3		
		F	20 36 18						
224	July 7	P	4 18 11		+1.0	−0.8	−1.3	27	Near the mouth of th Kinokawa, Wakayam Prefecture.
		L	4 18 14		−3	−5	+2		
		ME	4 18 15	0.4	+9				
		MN	4 18 15	0.4		−15			
		Mz	4 18 15	0.4			−4		

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF	4 19 22						
25	July 8	eP	21 12 58		−0.4	+0.6		395	
		L	21 13 51		+0.4	+0.6			
		eF	21 16 28						
26	July 11	eP	8 11 35					2097	E. off the Shiriwo cape.
		S	8 13 35		+1	+1			
		L	8 15 05		+2	+3			
		eF	8 25 46						
27	July 12	P	20 50 30				−0.4	36	In the Kii Channel.
		L	20 50 34		−1	+3	+1		
		M	20 50 35	0.3	−3	−4	−2		
		eF	20 51 09						
28	July 12	P	21 10 59		+0.4	−0.9	−0.6	2735	Off the Oti-ishi cape.
		S	21 13 37		−6	+6	+1		
		L	21 16 04		+4	−10	+1		
		F	21 35 46						
29	July 14	eP	23 25 13					2895	A distant earthquake.
		L	23 30 46		−1	+2			
		eF	23 44 46						
30	July 16	P	6 50 08		−1.0	+0.6	−0.4	93	Upper course of the river Yoshino, Shikoku.
		L	6 50 21		−4	+4	+1		
		M	6 50 23	0.4	−11	+6	+2		
		F	6 51 55						
31	July 16	P	10 18 51		+0.8	−1.1	−0.4	28	Near the mouth of the Kinokawa.
		L	10 18 55		+1	+3	+1		
		M	10 18 55	0.4	−3	+3	+1		
		F	10 20 05						
32	July 16	P	16 53 30		+0.4	−0.4	−0.4	28	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	16 53 33		+3	+4	+1		
		ME	16 53 35	0.4	±3				
		MN	16 53 34	0.4		−7			
		MZ	16 53 34	0.4			+2		
		eF	16 54 17						
233	July 16	P	16 54 17		+0.4	−1.3	−1.4	25	Ditto.
		L	16 54 21		+9	+13	+2		
		ME	16 54 22	0.4	−9				
		MN	16 54 21	0.4		−14			
		MZ	16 54 22	0.4			+4		
		F	16 55 06						
234	July 16	P	16 55 06					25	Ditto.
		L	16 55 09						
		M	16 55 10						
		F	16 55 56						
235	July 16	P	20 12 32		−0.4	−0.4		31	Near the mouth of the river Arita, Kii Provi
		L	20 12 36		−1	−1			
		MEN	20 12 36	0.4	−2	−3			
		F	20 13 10						
236	July 17	P	8 53 30		−1.9	−1.9	−1.5		In the Kitan Strait.
		eL	8 54 05						
		eF	8 57 31						
237	July 17	P	8 57 31		−1.9	−2.5			Ditto.
		eL	8 58 08						
		eF	8 10 45						
238	July 20	P	3 48 18		−1.3	−1.3	+0.4	92	Upper course of the r Miya, Ise Province.
		L	3 48 31		+4	−4	−5		
		ME	3 48 34	0.6	+15				
		MN	3 48 35	0.6		+22			
		MZ	3 48 40	0.6			−6		

	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF	3 52 40						
)	July 20	eP	15 23 49					91	In the basin of the river Arita, Wakayama Prefecture.
		L	15 24 02		−1	−1			
		M	15 24 02	0.3	−1	−2			
		eF	15 25 20						
)	July 22	eP	4 14 35					6941	A distant earthquake.
		eL	4 30 03						
		eF	4 59 44						
1	July 22	P	4 42 23			+0.6	−1.0		Upper course of the river Kako, Harima Province.
		eL	4 42 39		−4	+3	+2		
		ME	4 42 40	0.5	+6				
		MN	4 42 39	0.5		−9			
		MZ	4 42 40	0.5			+3		
		eF	4 43 44						
2	July 22	eP	18 06 33						In the Sea of Enshu.
		L	18 06 40						
		M	18 06 40	0.5	−3	+3	+3		
		eF	18 07 18						
3	July 23	P	11 37 11		−0.4	+0.4		67	In the basin of the river Arita, Wakayama Prefecture.
		L	11 37 20		+2	+3			
		M	11 37 20	0.4	±2	+3			
		F	11 38 14						
4	July 23	eP	17 22 22					985	S. off Kinkazan, Miyagi Prefecture.
		eS	17 24 25						
		eL	17 26 44						
		eF	17 40 44						
5	July 23	P	20 27 30		−0.6	+0.6		424	Upper course of the Sagami.
		L	20 28 27		+2	+3			
		eF	20 33 36						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
246	July 26	eP	1 54 42					79	Upper course of
		L	1 54 53		−1	+1			Watari. Tosa Provin
		M	1 55 07	0.5	−1	+2			
		eF	1 56 05						
247	July 27	P	14 52 57		+4.8	−0.4	−2.5		NE. off Hatijo I.
		eL	14 53 49		−11	+3	+1		
		M_E	14 54 30		+13				
		M_N	14 54 33			+14			
		M_Z	14 54 08				−3		
		eF	15 11 46						
248	July 30	eP	14 19 48		−0.4	+0.4	+0.4		In the Sea of Kas
		L	14 21 11		−8	−33	−3		
		M_E	14 21 24	2.8	−30				
		M_N	14 21 30	2.8		+50			
		M_Z	14 21 24	2.8			−13		
		eF	14 35 12						
249	July 30	eP	23 02 01					54	In the Kii Channel.
		L	23 02 08		−1	+1			
		M	23 02 08		−1	±2			
		eF	23 02 43						
250	July 31	eP	5 21 13					27	In the Kitan Strait.
		L	5 21 16		−1	+1			
		M	5 21 17	0.4	+1	+2			
		F	5 22 13						
251	Aug. 1	P	3 59 14		−0.6	−0.8	−0.6	31	Ditto.
		L	3 59 18		+1	−2	+1		
		M	3 59 18	0.6	−3	+4	−1		
		F	3 59 40						
*252	Aug. 1	P	13 50 05		+1.5	+1.6	−1.5	22	Ditto.
		L	13 50 08		+9	+8	+3		

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M	13 50 09	0.6	−15	+18	+4		
		F	13 50 57						
253	Aug. 1	P	14 51 16		−0.8	+0.4	−0.4	140	After shock of No. 35.
		L	14 51 35		−2	−6	+1		
		M	14 51 35	0.4	−3	+7	+1		
		F	14 52 07						
254	Aug. 1	eP	17 13 51					2.	Local shock.
		L	17 13 54		+1	−1			
		M	17 13 54	0.2	+1	+1			
		eF	17 14 10						
255	Aug. 1	P	18 08 16		−0.4	+0.6		20	Local shock.
		L	18 08 18		−3	−2			
		M	18 08 18	0.2	−3	±2			
		F	18 08 38						
256	Aug. 4	eP	15 55 09			−1.5	−3.8	2942	A distant earthquake; probably in Micronesia, Pacific Ocean.
		eL	16 00 49			+1	+1		
		eF	16 13 38						
257	Aug. 4	P	18 12 12		+5.0	−8.8	−6.4	36	In the Kii Channel.
		L	18 12 17		+6	+9	+4		
		M_{EN}	18 12 18	0.6	−29	+43			
		M_Z	18 12 18	0.6			+9		
		F	18 14 29						
258	Aug. 5	eP	2 45 32					132	After shock of No. 35.
		L	2 45 50		−1	−1			
		M	2 45 51	0.4	+2	+5			
		eF	2 46 25						
259	Aug. 5	P	12 41 06		+0.4	−1.5	+1.5	131	In the Bay of Kumihama, Tango Province.
		L	12 41 24		+10	+9	−1		
		M_E	12 41 25	0.6	−18				

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_N	12 41 26	0.6		+23			
		M_Z	12 41 26	0.6			+5		
		eF	12 47 38						
260	Aug. 5	eP	21 14 40		−1.1	−0.7	+0.5		Off the mouth of river Abukuma.
		S	21 15 40		−16	−28			
		L	21 16 40		−69	+113	+6		
		M_E	21 16 55	3.4	+259				
		M_N	21 16 58	3.4		+325			
		M_Z	21 16 40	3.4			−8		
		eF	21 17 38						
261	Aug. 6	eP	1 47 17					16	Local shock.
		L	9 47 20						
		M	9 47 20						
		eF	9 47 47						
262	Aug. 6	eP	5 36 25					22	Ditto.
		L	5 36 28		−1	+2			
		M	5 36 28		±1	−2			
		eF	5 36 49						
263	Aug. 7	eP	1 41 04					575	Lower course of the river Tone.
		L	1 42 21		+1	+2			
		eF	2 15 36						
264	Aug. 8	eP	1 02 30					2324	In the basin of the river Ishikari, Hokkaido.
		eS	1 03 59		+1	−1			
		eS_R	1 05 22		−1	+1			
		L	1 06 35		−1	+5			
		M	1 06 54	6.0	−4	+9			
		eF	1 59 35						
265	Aug. 8	eP	18 50 50						In the Sea of Ariake.
		eS	18 52 53		+1	−1			
		eS_R	18 54 53		−1	+1			

.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	18 56 29		+1	−3	+1		
		M_{EN}	18 56 30		−2	+8			
		eF	19 49 36						
6	Aug. 10	P	1 12 36		−2.5	+2.3	+1.4	61	In the Kitan strait.
		L	1 12 44		+4	+4	−1		
		M_E	1 12 46	0.4	−4				
		M_N	1 12 44	0.4		+6			
		M_Z	1 12 48	0.4			−2		
		eF	1 13 23						
7	Aug. 10	P	11 43 03		−0.6	+3.1	+1.3	2863	A distant earthquake; probably in Micronesia, Pacific Ocean.
		S	11 45 23		−1	+1			
		L	11 48 31		−4	−9			
		M_1E	11 50 25	14.0	+6				
		M_1N	11 48 47	14.0		+24			
		M_1Z	11 52 56	14.0			+9		
		M_2E	11 56 05	14.0	−14				
		M_2N	11 56 04	14.0		+23			
		eF	12 48 37						
8	Aug. 12	P	0 35 46		−0.6	−0.6	+0.4	696	NW. off Bonin Ils.
		L	0 37 20		−14	−9	−3		
		M	0 37 26	3.6	−19	+50	−4		
		eF	0 53 36						
9	Aug. 12	eP	1 24 56		−0.4	+0.4	−0.4	59	Near Himeji.
		L	1 25 04		−3	−4	+1		
		M_E	1 25 05	0.5	−7				
		M_N	1 25 05	0.5		−13			
		eF	1 26 48						
70	Aug. 12	P	17 32 16		+1.4	−1.4	−1.4	285	Far off in the Sea of Kumano.
		L	17 32 54		−5	+3	+1		
		M	17 32 55	1.1	+6	+3			
		F	17 34 51						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
271	Aug. 16	P	11 23 18		+38	−5.3	+4.0	62	Near Himeji.
		L	11 23 27		+14	−20	−3		
		M	11 23 27	0.6	−28	−30	−10		
		F	11 25 25						
272	Aug. 16	P	14 15 16		−1.0	+1.3	−0.4	56	In the Sea of Har
		L	14 15 24		+2	+2	+1		
		M	14 15 25	0.4	−5	+5	+1		
		eF	14 16 29						
273	Aug. 18	eP	5 04 52					32	Local shock.
		L	5 04 56						
		M	5 04 56						
		eF	5 05 17						
274	Aug. 18	eP	19 29 18		−1.9	−0.6		1102	Far off the Bōso Peninsula.
		eS	19 30 34		−14	−8	+1		
		L	19 31 46		+35	−75	−33		
		M	19 32 02	12.6	+144	−394	+65		
		eF	21 44 34						
275	Aug. 19	eP	12 44 41					715	In the Sea of Kas
		L	12 46 17	2.0	−2	−1			
		eF	12 54 36						
276	Aug. 19	eP	23 18 22		−0.4	−0.4	+0.4	1053	Far off the Bōso Peninsula.
		eS	23 19 23		+1	+1			
		eS_R	23 20 23		−1	−1			
		eL	23 20 51		−1	+1			
		eF	23 40 57						
277	Aug. 20	eP	21 38 57		−1.0	−0.6	+0.4	988	SSE. off Tyoshi.
		L	21 41 17		−1	+1			
		M_E	21 41 56	12.0	−13				
		M_N	21 42 18	12.0		−24			
		eF	22 09 33						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
278	Aug. 20	P	22 13 40		−1.3	+1.3	+1.3	396	In the Sea of Enshu.
		$\overline{P}$	22 13 41		+8	−8			
		L	22 14 33		+2	−2	−2		
		M	22 14 34	3.1	−8	+15	−4		
		eF	22 58 33						
279	Aug. 21	S	2 13 00		−0.4	+0.4	−0.4	56	SE. off Cape Muroto.
		L	2 13 08		−2	−2	+1		
		M	2 13 09	0.4	±3	±4	+1		
		F	2 13 39						
280	Aug. 21	P	3 37 10		+0.5	+0.6	+0.4	692	SW. off Kyusyu.
		L	3 38 43		−1	+2	−1		
		M_{EN}	3 38 48	2.0	−3	+3			
		eF	3 59 33						
281	Aug. 21	P	14 08 16		−1.0	+0.6	−0.4	67	In the Kii Channel.
		L	14 08 25		+1	−3	+1		
		M	14 08 26	0.4	±4	±6			
		F	14 09 05						
282	Aug. 21	P	19 33 13		−1.3	−1.3	+1.1	32	Local shock.
		L	19 33 17		−2	+2	−1		
		M_E	19 33 18	0.4	±6				
		M_N	19 33 18	0.4		+6			
		M_Z	19 33 18	0.4			−2		
		eF	19 34 33						
283	Aug. 23	eP	6 30 30		+0.6	+0.6	+0.4	1054	NNE. off Bonin Iis.
		L	6 32 52		+5	−8	−1		
		M_E	6 34 46	11.4	+46				
		M_N	6 34 44	11.4		−50			
		M_Z	6 33 53	11.4			−26		
		eF	7 16 32						
284	Aug. 23	P	10 09 01		+0.4	−0.6	−0.5	34	Lower course of the

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	10 09 06		+7	+5	+2		Arita, Wakayama Prefecture.
		M	10 09 06	0.4	+10	−8	−2		
		eF	10 10 16						
285	Aug. 24	P	5 30 50		−5.0	+1.9	+6.3	293	SW. off Hatijo I.
		L	5 31 43		−1	−6	−1		
		MEN	5 31 44	1.6	−2	+6			
		F	5 39 00						
286	Aug. 24	P	8 57 43		+1.0	+1.3	+1.3	839	E. off Cape Siwoya Iwaki Province.
		L	8 59 36		−5	+13	+3		
		ME	9 00 45	7.0	+6				
		MN	9 00 37	7.0		−21			
		MZ	8 59 48	7.0			+3		
		eF	9 45 31						
287	Aug. 24	P	15 20 10		−0.6	−0.4		1829	A distant earthquake
		S	15 21 40		−1	−2			
		L	15 23 00		+2	+2			
		F	15 47 55						
288	Aug. 24	P	18 13 00		−0.4	−0.6		1846	S. part of Formosa
		S	18 14 21		+1	+1			
		L	18 15 52		+1	−2			
		eF	19 14 31						
289	Aug. 24	eP	23 56 53					1670	Off Kinkwazan, Miy Prefecture.
		eL	23 59 18						
		eF	0 29 30						
290	Aug. 25	eP	16 58 18					987	After shock of No.
		eL	17 00 21						
		eF	17 27 30						
291	Aug. 26	eP	0 39 34						E. off Cape Siwoya
		L	0 42 12		−1	+1			
		eF	1 15 29						
292	Aug. 26	eP	9 01 05					41	Local shock.
		L	9 01 09		+1	+3			
		M	9 01 10		−2	−4			
		eF	9 01 20						
293	Aug. 26	eP	17 34 14					34	In the Kii Channel.
		L	17 34 19		+1	+1			
		M	17 34 19		±3	±3			
		eF	17 34 51						
294	Aug. 30	eP	17 41 28		−0.4	−0.6	−0.4	81	Off Cape Asizuri.
		eL	17 41 39		−2	+2	+1		
		eF	17 42 26						
295	Aug. 31	P	17 23 43		+1.3	−1.0	−0.4	36	In the Kii Channel.
		L	17 23 48		+1	+1	+1		
		MEN	17 23 48	0.3	−1	−2			
		F	17 24 11						
296	Aug. 31	P	17 26 00		−0.6	−1.0	−0.4	26	Ditto.
		L	17 26 04		+7	+5	+1		
		ME	17 26 05	0.4	−9				
		MN	17 26 04	0.4		−8			
		MZ	17 26 05						
		eF	17 27 36						
297	Aug. 31	eP	17 34 38					27	Ditto.
		L	17 34 41		−1	−1			
		MEN	17 34 42	0.3	±1	±1			
		eF	17 35 13						
298	Aug. 31	eP	19 59 11					165	After shock of No. 35.
		L	19 59 34		−1	−1			
		M	19 59 34	0.3	±3	±1			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF	20 01 00						
*299	Sept. 4	P	16 09 27		+0.6	−2.5	−1.9	47	In the Kii Chann
		L	16 09 32		−3	−9	+2		
		MEN	16 09 33	0.4	−31	−36			
		MZ	16 09 35	0.4			+7		
		F	16 12 33						
300	Sept. 5	P	0 34 29		−0.6	−0.8	+0.4	417	Near the mouth o
		L	0 35 25		+2	−3	−1		Naka.
		MEN	0 35 42	1.8	−9	+9			
		MZ	0 35 49						
		eF	0 41 23						
301	Sept. 5	P	19 34 37		−0.4	−1.3	−0.4	27	In the Kii Channe
		L	19 34 40		−1	+5	+2		
		M	19 34 50	0.4	−7	+11	−3		
		F	19 35 28						
302	Sept. 7	P	10 34 35		−0.6	−1.1	−0.4	403	Lower course of th
		L	10 35 29		+2	−1	+1		Kinu.
		M	10 35 49	1.5	±3	±8	−3		
		eF	10 41 56						
303	Sept. 7	P	16 34 52		+0.6	−1.1	−0.4		In the Kii Channel
		L	16 34 56		+4	+5	+1		
		M	16 34 57	0.5	−5	−9	−2		
		eF	16 35 30						
304	Sept. 8	eP	3 38 41						
		L	3 38 49					62	Ditto.
		M	3 38 49	0.4	+2	+2			
		eF	3 39 11		−2	+3			
305	Sept. 8	P	9 23 15		+0.4	−1.3	+0.9	53	Lower course of
		L	9 23 23		−1	+4	−1		Kinokawa, Wakayama
									Prefecture.
		MEN	9 23 24	0.6	−5	−6			
		MZ	9 23 23	0.6			+1		
		eF	9 24 37						
6	Sept. 11	eP	6 55 31		−0.8	−1.0	+0.4	424	Upper course of the Ōyodo.
		L	6 56 28		+1	−2	−1		
		M	6 56 29	1.3	±3	±4	±1		
		eF	7 00 06						
7	Sept. 11	eP	22 04 13			+0.6	+0.4	94	In the Kii Channel.
		L	22 04 24		−1	−3	−1		
		MEN	22 04 25						
		MZ	22 04 26						
		eF	22 05 34						
8	Sept. 11	eP	22 36 19					1084	A distant earthquake.
		eL	22 55 53						
		eF	22 00 06						
9	Sept. 12	P	12 13 17		−0.4	−0.6	−0.4	30	
		L	12 13 21			−1	+1		
		M	12 13 22	0.4	+1	−2	−1		
		eF	12 13 46						
10	Sept. 12	P	15 30 10		+2.5	−1.9	−4.1	301	S. off the Omae cape.
		L	15 30 50		+29	+15	+6		
		M	15 30 53	2.9	+29	−24	−8		
		eF	15 47 05						
11	Sept. 12	eP	23 26 39					15	In the Kitan Strait.
		L	23 26 41		+2	+3			
		MEN	23 26 42	0.4	+3	−5			
		MZ	23 26 42	0.4			−1		
		eF	23 27 15						
12	Sept. 16	P	15 50 54		+0.4	−0.9			S. far off the Erimo cape.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eL	15 51 06		−1	−1			
		eF	16 19 03						
313	Sept. 17	eP	12 21 28		−1.0	−1.1		649	S. off Makurazaki, Kagosima Prefecture.
		eL	12 22 55		−1	+1			
		eF	12 30 00						
314	Sept. 17	P	15 11 10		−0.4	−0.4	+1.0	641	W. off Yaku I., Kagosima Prefecture.
		L	15 12 36		−1.3	+1.9	−1.0		
		M_E	15 13 07	2.7	−6.3				
		M_N	15 13 15	2.7		+19			
		M_Z	15 12 12	2.7					
		eF	15 25 ±						
315	Sept. 19	eP	18 17 57					17	In the Kii Channel
		L	18 17 59						
		M	18 18 00	0.3	+3	−2	+1		
		eF	18 18 32						
316	Sept. 21	eP	12 14 17					102	In the Sea of Hari
		L	12 14 31		+1	+1	+1		
		M	12 14 31	0.3	+1	−2	+1		
		eF	12 14 48						
317	Sept. 23	eP	2 50 14		+0.9	−0.6			Upper course of the Masuda.
		L	2 50 20		−1	−1			
		M	2 50 27	0.5	−2	+2			
		F	2 51 06						
318	Sept. 23	P	3 52 25		+0.6	−1.4	+1.1	28	Near Wakayama.
		L	3 52 29		+6	+7	−3		
		M_E	3 52 31	0.6	+6				
		M_N	3 52 29	0.6		+11			
		M_Z	3 52 31	0.6			+3		
		eF	3 54 10						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
Sept. 23	eP	14 11 03						A distant earthquake.
	eS	14 14 02						
	eL	14 17 04						
	eF	15 22 57						
Sept. 24	eP	4 46 05		+0.6	+1.0	+0.9	22	In the Kitan Strait.
	L	4 46 08		−2	+4	+1		
	M	4 46 08	0.4	−2	+4	−1		
	eF	4 46 17						
Sept. 28	eP	4 41 27					24	Local shock.
	L	4 41 30						
	M	4 41 31	0.3	−3	+4	−1		
	eF	4 41 41						
Sept. 30	eP	7 40 33						Off the Siriya Promontory.
	L	7 42 24		−2	+4			
	M	7 43 32	5.4	+5	−11			
	eF	7 12 59						
Oct. 1	eP	4 55 20					175	SE. off Yasima I.
	L	4 55 43		+2	−1	−1		
	M	4 55 50	0.8	±2	±3	−1		
	eF	4 57 10						
Oct. 3	P	14 19 37					20	In the Kii Channel.
	L	14 19 39		+3	+5	+1		
	M_E	14 19 41	0.4	−4				
	M_N	14 19 40	0.4		−8			
	M_Z	14 19 40	0.4			+1		
	eF	14 20 13						
Oct. 7	eP	18 46 17					53	Ditto.
	L	18 46 25		−2	−2			
	M	18 46 25		−2	±3	−1		
	F	18 47 01						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
326	Oct. 8	P	0 24 16		−0.4	−1.0	+0.4	30	Ditto.
		L	0 24 20		+4	−3	−1		
		M	0 24 21	0.6	−4	−5	+1		
		eF	0 25 19						
327	Oct. 8	eP	9 32 31					89	Near Kyoto.
		L	9 32 43		−1	−1			
		eF	9 33 37						
328	Oct. 9	eP	12 28 00					2290	A distant earthqu
		eS	12 30 00						
		eL	12 32 00						
		eF	12 54 00						
329	Oct. 10	P	5 37 50		+0.4	−1.3		10	In the Kitan Str
		L	5 37 51		−6	+2			
		M	5 37 52	0.4	−8	+6	+1		
		F	5 38 11						
330	Oct. 11	P	1 14 21					586	In the Sea of K
		L	1 15 40		−10	+9	−3		
		M	1 15 40	2.2	+20	+30	−3		
		eF	1 26 19						
*331	Oct 11	P	6 55 10					23	In the Kitan Str
		L	6 55 13		+13	+16	+3		
		M_{EN}	6 55 13		−38	−31			
		M_Z	6 55 15				−4		
		eF	6 56 12						
332	Oct. 11	P	17 33 03						E. off the Erimo Promontory.
		eS	17 34 00						
		eL	17 34 59		−2	+4			
		M	17 36 04	2.9	−4	+8			
		eF	17 10 51						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
Oct. 16	$\overline{P}$	6 07 51					263	Near Gifu.
	$\overline{S}$	6 08 27						
	M	6 08 28	2.1	−6	+8	−4		
	F	6 11 25						
Oct. 16	P	19 57 02					30	In the Kitan Strait.
	L	19 57 06						
	M	19 57 07	0.8	−37	+71	+14		
	F	20 00 10						
Oct. 17	eP	10 28 32						Ditto.
	L	10 28 48		−2	−2			
	M	10 28 48		−2	+4	±1		
	eF	10 29 13						
Oct. 18	eP	12 47 10					449	In the Sea fo Amakusa.
	L	12 48 11		−11	+7	+3		
	M_E	12 48 15	1.8	−14				
	M_N	12 48 13	1.8		+10			
	M_Z	12 48 14	1.8			−4		
	eF	13 04 09						
Oct. 20	P	0 10 44					27	In the Kitan Strait.
	L	0 10 47		+5	+5	+1		
	M_E	0 10 47	0.4	+5				
	M_{NZ}	0 10 48	0.4		+6	±1		
	F	0 11 32						
Oct. 21	eP	0 54 32					26	Near Wakayama.
	L	0 54 36		+2	+2			
	M_E	0 54 36		−2				
	M_N	0 54 36			−3			
	eF	0 54 57						
Oct. 24	eP	16 10 10					3972	A distant earthquake.
	eS	16 14 20						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eL	16 18 28		+3	+4			
		eF	18 00 08						
340	Oct. 24	eP	19 07 12					1766	S. far off the Bō
		eS	19 08 30						Peninsula.
		L	19 09 52		+9	−6	+4		
		M_E	19 10 27	8.7	+21				
		M_N	19 11 01	8.7		−29			
		M_Z	19 10 28	8.7			−13		
		eF	20 15 08						
341	Oct. 25	eP	6 03 43					377	In the Bay of To
		L	6 04 33		−1	+1			
		M_E	6 04 51		−2				
		M_N	6 04 55			−3			
		eF	6 07 15						
342	Oct. 25	P	14 22 11					27	Near Wakayama.
		L	14 22 15		+6	−8	+2		
		M	14 22 15	0.4	−7	−9	+3		
		F	14 22 59						
*343	Oct. 25	P	14 28 45					28	Ditto.
		L	14 28 49		+15	+31	+4		
		M	14 28 49		+24	−35	±8		
		F	14 30 23						
344	Oct. 25	eP	14 37 26					25	In the Kii Channe
		L	14 37 29		+3	+4	+1		
		M	14 37 30	0.4	−3	+5	+2		
		F	14 37 58						
345	Oct. 25	eP	21 38 09						E. far off Bonin Is
		eL	21 45 22						
		eF	22 17 57						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
Oct. 27	eP	1 55 24					568	Misima district, Etigo
	eL	1 56 40		−3	+2			Province.
	M_E	1 56 48	2.9	+3				
	M_N	1 56 50	2.9		−3			
	eF	2 01 24						
Oct. 28	eP	15 24 32					971	SE. far off the Bōso
	eS	15 25 36		−2	+2			Peninsula.
	eL	15 26 43		−4	−3	+1		
	M_E	15 27 18	7.1	−10				
	M_N	15 28 30	7.1		−15			
	M_Z	15 27 16	7.1			+5		
	eF	15 49 04						
Nov. 2	eP	2 14 49					45	In the Kii Channel.
	L	2 14 55		−1	+3			
	M	2 14 56	0.5	+2	−4			
	eF	2 15 23						
Nov. 2	eP	22 58 18					627	E. off Amami Osima I.
	L	22 59 43						
	eF	23 16 53						
Nov. 4	eP	0 47 06					30	In the Kitan Strait.
	L	0 47 10		+1	−2	+1		
	M_{EN}	0 47 11	0.6	−3	−5			
	M_Z	0 47 11	0.6			±1		
	eF	0 47 55						
Nov. 4	eP	14 01 03					5866	A distant earthquake.
	eS	14 14 15						
	eL	14 24 10						
	F	16 04 58						
Nov. 5	eP	6 41 00						W. off Isigaki Ils.
	eL	6 41 18		−5	+3	+3		

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M	6 41 20		−5	+7	+6		
		F	6 45 41						
353	Nov. 6	eP	16 33 12					22	In the Kitan Str
		eL	16 33 15						
		eF	16 33 48						
354	Nov. 10	P	19 49 12					295	Upper course of
		L	19 49 51		−9	−12	+4		Tenryu.
		M	19 49 53	1.6	−10	+21	+5		
		F	19 55 50						
355	Nov. 11	eP	2 48 05					144	After shock of No
		L	2 48 24		+4	+2	+1		
		M	2 48 25	0.8	−7	−9	−2		
		F	2 49 57						
356	Nov. 14	eP	0 19 11					6176	A distant earthqu
		eL	0 33 06						
		M_E	0 34 07	13.7	−8				
		M_N	0 34 40			+15			
		eF	0 10 56						
357	Nov. 14	eP	5 03 36						Ditto.
		eL	5 15 49						
		M_E	5 19 18	12.6	−13				
		M_N	5 19 17	12.6		+36			
		M_Z	5 19 48	12.6			+9		
		eF	6 02 56						
358	Nov. 14	P	19 47 00						
		L	19 54 00					3467	SE. off Bonin Is.
		M_E	19 54 47	6.7	−3				
		M_N	19 55 00	6.7		−3			
		eF	20 51 56						

	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
	Nov. 16	eP	11 29 41						After shock of No. 35.
		L	11 29 20		+2	+3			
		M	11 29 20	0.4	+2	+3			
		eF	11 30 07						
	Nov. 16	eP	21 15 28					3866	A distant earthquake.
		eS	21 19 34						
		eL	21 23 29						
		eF	21 50 03						
	Nov. 17	P	17 05 04					28	In the Kitan Strait.
		L	17 05 08		+3	+4	+1		
		M_E	17 05 08	0.5	−10				
		M_N	17 05 09	0.5		+7			
		M_Z	17 05 08	0.5			+2		
		F	17 06 04						
	Nov. 18	eP	3 30 15					3455	A distant earthquake.
		eS	3 33 14						
		eL	3 37 13						
		eF	3 14 58						
	Nov. 20	eP	8 54 27					38	In the Kii Channel.
		L	8 54 32		+3	−2	+1		
		M_E	8 54 32	0.4	−4				
		M_N	8 54 33	0.4		±6			
		M_Z	8 54 33	0.4			±1		
		eF	8 55 09						
	Nov 23	eP	16 55 02					46	Ditto.
		L	16 55 08		+1	+2	+1		
		M_{EN}	16 55 09	0.4	+3	−6			
		eF	16 55 53						
	Nov. 25	P	20 49 03					32	In the Kitan Strait.
		L	20 49 07		+5	+1	−1		

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M	20 49 09	0.4	−7	+7	+2		
		eF	20 49 45						
366	Dec. 2	P	5 54 08					42	Middle course of river Arita.
		L	5 54 13	0.4	+4	+5	+1		
		M	5 54 16						
		F	5 54 37						
*367	Dec. 2	P	6 55 04					25	Ditto.
		L	6 55 11		+23	+84	+29		
		ME	6 55 16	0.8	−288				
		MNZ	6 55 20	0.8		+250	−94		
		eF	6 06 36						
368	Dec. 2	P	7 33 31					25	Ditto.
		L	7 33 35		+1	+3	+1		
		M	7 33 35	0.4	−3	+3	−1		
		F	7 33 57						
369	Dec. 2	P	14 44 11					41	Ditto.
		L	14 44 17		+1	+3	+1		
		M	14 44 17		−4	+6	−1		
		F	14 44 47						
370	Dec. 3	eP	17 12 29					32	Ditto.
		L	17 12 33		+1	+2			
		M	17 12 34	0.4	−1	−3			
		F	17 12 54						
371	Dec. 4	eP	0 56 55						After shock of No.
		L	0 56 59		+1	−1			
		M	0 56 59	0.4	±1	±1			
		eF	0 56 25						
372	Dec. 4	eP	3 34 20						Ditto.
		L	3 34 24		−1	−1			

Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
	M	3 34 25	0.4	+2	+3			
	eF	3 34 46						
Dec. 4	eP	3 53 42					505	In the Bay of Tijiiwa.
	L	3 54 50		−9	−11	−2		
	MEZ	3 54 54		−14		−6		
	MN	3 54 56			−23			
	eF	4 02 34						
Dec. 4	eP	12 19 44					456	Ditto.
	L	12 20 46		+5	−8	−2		
	M	12 20 46	2.3	+7	+14	+3		
	eF	12 29 37						
Dec. 7	eP	8 13 59					42	Near the mouth of the river Arita, Wakayama Prefecture.
	L	8 14 04		−2	+5	−1		
	M	8 14 05	0.4	−4	−6			
	eF	8 14 40						
Dec. 7	eP	9 35 30						On the coast of the Sea of Kasima.
	L	9 36 14		−2	+1			
	eF	9 39 18						
Dec. 7	eP	16 18 45						After shock of No. 35.
	L	16 18 49		−1	+5			
	eF	16 19 29						
Dec 9	eP	0 26 28						In the basin of the Arita.
	L	0 27 12		+3	+4			
	M	0 27 13		+4	+6			
	eF	0 27 55						
Dec. 9	P	35 38					18	In the Kitan Strait.
	L	0 35 40		−1	+1			
	M	0 35 41		±1	+3			
	eF	0 36 35						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
380	Dec. 10	eP	2 45 31					393	Middle course of
		eL	2 46 24		−2	−3	−1		Sinano.
		M	2 46 31	2.4	−5	−5	+2		
		F	2 53 14						
381	Dec. 10	P	19 21 02					64	In the Kitan Str
		L	19 21 10		+3	+2	−1		
		M	19 21 11	0.5	−3	−5			
		eF	19 21 50						
382	Dec. 18	eP	19 51 01					651	Middle part of th
		L	19 52 29		+4	−4	+1		Japan Sea.
		M_E	19 52 30	2.9	+4				
		M_{NZ}	19 52 34	2.9		−5	−1		
		eF	20 00 08						
383	Dec. 21	eP	2 48 58					30	Near the mouth o
		L	2 49 02		−1	+1	+1		river Arita.
		M	2 49 03	0.4	+3	−7	−1		
		F	2 49 28						
384	Dec. 27	eP	11 14 42					25	In the Kii Chann
		L	11 14 45		+1	+1			
		M	11 14 46	0.4	+3	+3			
		F	11 14 58						
385	Dec. 28	eP	1 50 47					28	Ditto.
		L	1 50 51		+2	+2	+1		
		M	1 50 51		+2	−4	+1		
		F	1 51 09						
386	Dec. 28	eP	11 09 10					24	Ditto.
		L	11 09 13		−2	+3			
		M	11 09 14	0.4	+2	+4			
		eF	11 10 07						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
Dec. 28	eP	14 35 12					604	In the Sea of Kasima.
	L	14 36 34		+2	+3			
	M	14 36 40	2.3	−3	−6			
	eF	14 54 07						
Dec. 28	eP	18 26 21						A distant earthquake.
	S	18 31 23						
	L	18 35 23		+28	+38	−3		
	M_E	18 38 16		+41				
	M_N	18 38 02			+65			
	M_Z	18 37 41				+19		
	eF	18 00 07						
Dec. 29	eP	17 59 39					19	In the Kitan Strait.
	L	17 59 41		+3	+3	−1		
	M	17 59 42	0.4	±3	±5	+1		
	eF	18 00 12						
Dec. 29	eP	21 44 21						Local Shock.
	L	21 44 25		+2	−3			
	M	21 44 25	0.4	−4	+5			
	eF	21 44 50						
Dec. 29	eP	23 21 45						Ditto.
	L	23 21 50		−11	−9			
	M	23 21 50	0.4	−12	+11			
	eF	23 22 27						
Dec. 30	P	7 20 19					25	In the Kii Channel.
	L	7 20 23		+6	+14			
	M	7 20 24	0.7	+20	+18			
	eF	7 21 37						
Dec. 31	eP	5 51 46					304	Upper course of
	L	5 52 27		−3	−3	+1		Arakawa.
	M_E	5 52 53	0.9	−4				

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_N	5 52 57	0.9		+8			
		M_Z	5 52 50	0.9			+2		
		eF	6 02 06						

TOYOOKA JAPAN.

SEISMOLOGICAL BULLETIN

A Branch Station of the Kobe Meteorological Observatory of Japan.
$\varphi = 35° 32'$ $\lambda = 134° 49'$ h = 23.3 m. Underground : Diluvial Series.
Instruments : Wiechert Seismograph.

(Horizontal)

	T_0	ε	$\frac{r}{T_0^2}$	V
A_E:	6.2	Aperiodic	0.002	80
A_N:	6.0	,,	0.002	80

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
May 1	P	9 20 43					30	After shock of the great North Tango earthquake (No. 23.)
	LM	9 20 47		±10	±20			
	F_E	9 20 53						
	F_N	9 20 33						
May 1	P	11 32 38					41	Ditto.
	L	11 32 43						
	M	11 32 43		±20	±30			
	F_E	11 32 59						
	F_N	11 32 56						
May 1	eP	11 47 28					17	Ditto.
	L	11 47 31						
	M	11 47 31			±15			
	F_E	11 47 35						
	F_N	11 47 36						
May 2	L	12 06 41					?	Ditto.
	F	12 06 44						
May 2	P	22 15 13					24	Ditto.
	LM	22 15 15		?				

Earthquake felt.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eF$_E$	22 15 19						
		eF$_N$	22 15 22						
*780	May 3	P	2 48 09					25	Ditto.
		L	2 48 13						
		M	2 48 13		±450	±200			
		F$_N$	2 49 14						
		F$_E$	2 49 52						
781	May 3	P	3 21 26					24	Ditto.
		LM	3 21 28						
		F	3 21 32						
782	May 3	L	18 36 35					?	Ditto.
		M$_E$	18 36 36		?				
		M$_N$	18 36 35			?			
		F	18 36 38						
783	May 4	P	0 01 43					24	Ditto.
		L	0 01 46						
		M	0 01 47		±25	±20			
		F$_E$	0 01 55						
		eF$_N$	0 02 11						
784	May 4	P	0 28 28					24	Ditto.
		L	0 28 30						
		M$_E$	0 28 31		−25				
		eM$_N$	0 28 31			±20			
		F$_E$	0 28 34						
		eF$_N$	0 28 35						
785	May 4	eP	1 57 19					24	Ditto.
		L	1 57 22						
		eM	1 57 22		−20	±30			
		F	1 57 25						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
May 4	L	21 13 57					?	Ditto.
	M	21 13 58		±18				
	eM$_N$	21 13 58			±15			
	F	21 14 02						
May 4	P	22 04 13					17	Ditto.
	L	22 04 15						
	M	22 04 15		±115	±165			
	C$_E$	22 04 18						
	C$_N$	22 04 20						
	F$_E$	22 04 27						
	F$_N$	22 04 32						
May 5	P	21 33 08					27	Ditto.
	L	21 33 11						
	M	21 33 11		±23	±30			
	F$_E$	21 33 40						
	F$_N$	21 34 16						
May 6	P	8 19 49					19	Ditto.
	LM	8 19 52		±160	±350			
	F$_E$	8 20 14						
	F$_N$	8 20 22						
) May 6	P	8 35 03					27	Ditto.
	L	8 35 07						
	M	8 35 07		±25	±30			
	F$_E$	8 35 19						
	eF$_N$	8 35 14						
1 May 6	P	8 52 42					32	Ditto.
	L	8 52 46						
	F	8 52 49						
2 May 6	P	16 26 05					93	Near the Mt. Mikuni, Wakasa Province.
	L	16 26 18						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M	16 26 21		±40	±35			
		F	16 26 41						
793	May 6	P	23 13 33					28	After shock of N
		L	23 13 36						
		M	23 13 36		±10				
		F	23 13 41						
794	May 6	P	23 54 42					27	Ditto.
		L	23 54 41						
		M	23 54 46		?	?			
		F	23 55 02						
795	May 7	P	0 00 13					24	Ditto.
		LM	0 00 16		±10				
		F	0 00 21						
796	May 7	eP	10 39 35					27	Ditto.
		LM	10 39 39		±10				
		F	10 39 45						
797	May 7	P	12 15 33					25	Ditto.
		L	12 15 36						
		M	12 15 36		±10	±15			
		F	12 15 40						
798	May 7	P	21 02 23					24	Ditto.
		LM	21 02 26		±310	±165			
		F	21 02 43						
*799	May 8	P	0 07 26					22	Ditto.
		L	0 07 28						
		M_E	0 07 28		±33	±140			
		M_N	0 07 29						
		F	0 07 48						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
May 8	P	2 44 41					22	Ditto.
	L	2 44 44						
	eM	2 44 44		±20	±60			
	F_E	2 44 48						
	F_N	2 44 52						
May 8	P	7 56 37					194	Upper course of Enogawa, north western part of Bingo Province.
	L	7 56 58						
	M	7 57 08		±425	±500			
	eF_E	7 57 08						
	eF_N	7 57 51						
May 8	L	8 00 15					?	After shock of No. 23.
	M_E	8 00 16		±30				
	eM_N	8 00 15			±30			
	eF	8 00 25						
May 8	P	8 06 13					22	Ditto.
	LM	8 06 15						
	F	8 06 19						
May 8	L	18 13 09					?	Ditto.
	eF	18 13 12						
May 8	P	18 52 37					27	Ditto.
	L	18 52 40						
	M	18 52 40		±35	±40			
	F_E	18 52 44						
	F_N	18 52 45						
May 8	P	20 39 57					27	Ditto.
	LM	20 40 00		±10				
	eF	20 40 05						
May 8	P	20 46 59					35	Ditto.
	L	20 47 03						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F	20 47 17						
808	May 9	P	1 25 08					13	Ditto.
		L	1 25 10						
		M_E	1 25 10		±25				
		M_N	1 25 11			±15			
		F_E	1 25 15						
		F_N	1 25 17						
809	May 9	L	6 55 41						Ditto.
		eM	6 55 42						
		eF	6 55 44						
810	May 9	P	7 05 02					?	Ditto.
		eF	7 05 09						
811	May 9	P	12 01 22					24	Ditto.
		L	12 01 25						
		F	12 01 30						
812	May 9	P	13 49 55					19	Ditto.
		L	13 49 57						
		M_E	13 49 57		±20				
		M_N	13 49 58			+15			
		F_E	13 50 01						
		F_N	13 50 03						
813	May 9	P	16 05 36					26	Ditto.
		L	16 05 39						
		M_E	16 05 39		±15				
		M_N	16 05 40			±25			
		F_E	16 05 48						
		F_N	16 05 46						
*814	May 9	P	16 33 34					19	Ditto.
		L	16 33 37						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_E	16 33 37		±125				
		M_N	16 33 38			±100			
		F	16 33 51						
5	May 9	P	16 35 45					19	Ditto.
		L	16 35 47						
		M	16 35 48		±25	±20			
		F	16 35 54						
6	May 10	eP	6 25 42					19	Ditto.
		eL	6 25 45						
		F	6 25 52						
7	May 10	P	17 30 44					37	Ditto.
		L	17 30 48						
		M	17 30 48		±13	±10			
		F_E	17 30 53						
		F_N	17 30 51						
	May 11	P	0 28 27					24	Ditto.
		L	0 28 30						
		M	0 28 30		±40	±25			
		F_E	0 28 34						
		eF_N	0 28 35						
	May 11	LM	5 13 34						Ditto.
		F	5 13 36						
	May 11	P	14 48 31					22	Ditto.
		L	14 48 33						
		F	14 48 35						
	May 11	P	16 30 14					27	Ditto.
		L	16 30 17						
		M	16 30 18		±11	±15			
		F	16 30 21						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
822	May 11	P	22 40 58					27	Ditto.
		L	22 41 01						
		F_E	22 41 06						
		eF_N	22 41 09						
823	May 12	P	11 38 37					22	Ditto.
		L	11 38 40						
		F	11 38 42						
824	May 13	P	8 43 38					24	Ditto.
		L	8 43 41						
		M	8 43 42		±450	±510			
		C	8 43 46						
		F_E	8 44 25						
		F_N	8 44 43						
825	May 13	P	15 01 08					26	Ditto.
		L	15 01 11						
		M	15 01 11		±20				
		F_E	15 01 14						
		F_N	15 01 13						
826	May 14	P	2 43 23					24	Ditto.
		L	2 43 25						
		M	2 43 26		±10	±30			
		F_E	2 43 32						
		F_N	2 43 31						
827	May 14	P	6 08 56					24	Ditto.
		L	6 08 58						
		M	6 08 58		±20	±30			
		F	6 09 03						
*828	May 14	P	10 24 10					30	Ditto.
		L	10 24 13						
		M	10 24 14		±75	±80			

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
	F_E	10 24 29						
	eF_N	10 24 21						
May 14	L	17 24 04					?	Ditto.
	M	17 24 04		±40				
	F	17 24 07						
May 14	P	18 56 37					13	Ditto.
	L	18 56 39						
	M	18 56 39		±20	±20			
	F_E	18 56 42						
	F_N	18 56 42						
May 14	P	20 34 55					27	Ditto.
	L	20 34 58						
	M	20 34 58		±20	±20			
	F	20 35 03						
May 15	P	18 29 49					24	Ditto.
	L	18 29 51						
	M	18 29 52		±20	±35			
	F	18 29 59						
May 16	P	2 24 25					27	Ditto.
	L	2 24 51						
	M	2 24 52		±35	±60			
	F_E	2 24 57						
	eF_N	2 24 58						
May 16	L	5 17 32					?	Ditto.
	M	5 17 55		±25	±30			
	F	5 17 58						
May 16	P	12 03 05					?	A distant earthquake.
	eS_E	12 05 22						
	S_N	12 06 05						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_E	12 09 38	8.8	±85				
		M_N	12 10 12	8.8		±80			
		eF_E	12 39 ±						
836	May 16	P	13 57 17					25	After shock of N
		eL	13 57 20						
		F_E	13 57 30						
		F_N	13 57 27						
837	May 17	P	12 42 13					24	Ditto.
		L	12 42 16						
		M_E	12 42 16		±13				
		M_N	12 42 16			±18			
		eF_E	12 42 23						
		F_N	12 42 20						
838	May 17	L	14 01 38					?	Ditto.
		M_E	14 01 38		±10				
		M_N	14 01 39			±10			
		F_E	14 01 48						
		F_N	14 01 42						
839	May 17	P	14 52 47					26	Ditto.
		L	14 52 50						
		M	14 52 50		±10				
		F	14 52 55						
840	May 17	L	21 47 59						
		M	21 48 08	7.1	±95				NW. part of the Sea.
841	May 18	P	11 47 22					17	After shock of N
		L	11 47 24						
		M	11 47 25		+10				
		eF_E	11 47 34						
		F_N	11 47 28						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
May 19	P	5 07 36					24	Ditto.
	L	5 07 39						
	M	5 07 39		±15	±20			
	F_E	5 07 44						
	F_N	5 07 42						
May 19	eP	6 57 16					?	Ditto.
	L	6 57 18						
	M	6 57 18		±10				
	F_E	6 57 21						
	F_N	6 57 20						
May 19	L	12 53 23						Ditto.
	F_E	12 53 25						
	F_N	12 53 26						
May 19	P	19 19 12					356	Near Titibu district, Saitama Prefecture.
	L	19 19 56						
	M	19 19 59	1.3	+33	−55			
	F_E	19 21 17						
	F_N	19 21 51						
May 20	L	0 12 44					?	After shock of No. 23.
	M_E	0 12 05		±9				
	F_E	0 12 06						
May 20	L	6 12 04					?	Ditto.
	M_E	6 12 04		±13				
	eM_N	6 12 05			±10			
	F_E	0 12 06						
	eF	6 12 08						
May 20	P	7 51 20					27	Ditto.
	L	7 51 05						
	M	7 51 06		±73	±50			
	F_E	7 51 15						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F_N	7 51 17						
*849	May 20	P	7 52 02					31	Ditto.
		L	7 52 06						
		M	7 52 06		±145	±105			
		C_E	7 52 09						
		C_N	7 52 07						
		F_E	7 52 23						
		F_N	7 52 18						
850	May 20	P	10 32 07					27	Ditto.
		L	10 32 10						
		M	10 32 10		±23	±15			
		F_E	10 32 15						
		eF_N	10 32 18						
851	May 21	P	0 06 18					13	Ditto.
		L	0 06 19						
		M	0 06 19		±20	±40			
		F_E	0 06 23						
		F_N	0 06 22						
852	May 21	P	6 39 20					17	Ditto.
		L	6 39 22						
		eM	6 39 22		±10				
		F_E	6 39 25						
		F_N	6 39 26						
853	May 22	P	5 21 29					17	Ditto.
		L	5 21 31						
		M	5 21 31		±18	±23			
		F_E	5 21 35						
		eF_N	5 21 35						
854	May 22	P	9 35 43					23	Ditto.
		L	9 35 46						

.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eM	9 35 46						
		F_E	9 35 49						
5	May 22	P	16 36 38					26	Ditto.
		L	16 36 41						
		M	16 36 42		±315	±320			
		F_E	16 37 38						
		F_N	16 37 14						
5	May 22	eP	16 55 37					22	Ditto.
		L	16 55 39						
		M	16 55 40						
		F_E	16 55 44						
		F_N	16 55 41						
	May 22	L	16 55 45					?	Ditto.
		M	16 55 45						
3	May 22	L	16 55 47						Ditto.
		M	16 55 08		±20				
		F	16 55 53						
9	May 22	P_E	22 38 26						In Micronesia, Pacific Ocean.
		eP_N	22 38 23						
		S_E	22 43 05						
		S_N	22 42 52						
		L_E	22 46 31						
		L_N	22 46 22						
		M_1E	22 48 58	11.4	−2500				
		M_1N	22 48 10	6.5		−2650			
		M_2E	22 49 37	8.1	−2775				
		M_2N	22 49 09	8.1		+3325			
		M_3E	22 50 18	8.1	+2350				
		M_3N	22 50 06	6.0		−1600			
		M_4E	22 51 04	11.4	+2100				
		M_4N	22 50 39	6.5		+2840			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M_5E	22 52 36	9.4	+2425				
		M_5N	22 51 57	7.1		+1500			
		M_6E	22 54 08	8.1	+4150				
		M_6N	22 53 15	8.1		−1425			
		C_E	23 04 58	6.2					
		C_N	23 03 23						
		eF_E	23 59 ±						
		eF_N	23 59 ±						
860	May 23	P	3 27 48					18	After shock of N
		L	3 27 50						
		M	3 27 51		±13				
		eM	3 27 52			±15			
		F_E	3 27 56						
		F_N	3 27 54						
861	May 23	eP	12 47 01					15	Ditto.
		L	12 47 03						
		M	12 47 03		±15				
		F_E	12 47 06						
862	May 24	P	12 18 08					28	Ditto.
		L	12 18 11						
		M_E	12 18 12		±40				
		eM_N	12 18 11			±50			
		F	12 18 26						
863	May 24	P	14 01 52					24	Ditto.
		L	14 01 55						
		M	14 01 55		±10	±15			
		F_E	14 01 59						
		F_N	14 02 03						
864	May 24	L	18 29 38					?	Ditto.
		M	18 29 38		±18	±10			
		F	18 29 42						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
	eF	18 29 43						
May 25	P	5 54 34					22	Ditto.
	L	5 54 37						
	M	5 54 38		±18	±15			
	F	5 54 43						
May 25	P	5 57 12					27	Ditto.
	L	5 57 16						
	M	5 57 16		±8				
	F_E	5 57 18						
	F_N	5 57 22						
May 25	P	7 07 38						Ditto.
	L	7 07 40						
	M	7 07 40		±15				
	F	7 07 43						
May 25	P	23 25 45					27	Ditto.
	L	23 25 48						
	M	23 25 49		±30	±55			
	F_E	23 25 54						
	F_N	23 25 56						
May 25	P	23 36 06					24	Ditto.
	L	23 36 09						
	M	23 36 09		±20	±20			
	F_E	23 36 13						
	F_N	23 36 13						
May 26	P	21 34 23					13	Ditto.
	L	21 34 25						
	M	21 34 25		±60	±65			
	F	21 34 32						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
871	May 27	P	2 15 21						Ditto.
		L	2 15 25						
		eM	2 15 25						
		F_E	2 15 29						
		F_N	2 15 32						
872	May 27	P	8 35 17					14	Ditto.
		L	8 35 18						
		M	8 35 18		±30	±30			
		F_E	8 35 22						
		F_N	8 35 28						
873	May 27	P	16 41 50					19	Ditto.
		L	16 41 53						
		M	16 41 53		±15	±30			
		F_E	16 42 02						
		F_N	16 41 55						
874	May 28	P	16 29 50					17	Ditto.
		L	16 29 52						
		M	16 29 52		±475	±550			
		C_E	16 29 56						
		F_E	16 30 10						
		F_N	16 30 13						
875	May 28	P	16 30 45					24	Ditto.
		L	16 30 48		±55				
		M	16 30 51			±70			
		F	16 30 56						
876	May 28	P	19 33 20					13	Ditto.
		L	19 33 22						
		M	19 33 22		±1185	±1025			
		F_E	19 34 35						
		F_N	19 34 09						

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
May 29	P	1 30 59					13	Ditto.
	L	1 31 00						
	M	1 31 00		±80	±85			
	F_E	1 31 07						
	F_N	1 31 08						
May 29	LM	3 06 22						
	F	3 06 25						
May 29	eP	3 16 14					39	Ditto.
	L	3 16 18						
	eM	3 16 19		±18	±20			
	eF	3 16 23						
	eF	3 16 23						
May 29	P	21 35 26					24	Ditto.
	L	21 35 29						
	M	21 35 29		±10	±15			
	F_E	21 35 32						
	F_N	21 35 33						
May 30	eP	1 05 22					11	Ditto.
	L	1 05 23						
	M	1 05 24		±20	±20			
	F_E	1 05 30						
	F_N	1 05 28						
May 30	eP	2 23 18					8	Ditto.
	L	2 23 19						
	M	2 23 19		±20	±20			
	F_E	2 23 25						
	F_N	2 23 21						
May 30	P	2 25 39					11	Ditto.
	L	2 25 41						
	M	2 25 41		±20	±20			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F_E	2 25 44						
		F_N	2 25 44						
884	May 31	LM	5 28 49		±10			?	Ditto.
		F	5 29 01						
885	May 31	eP	5 52 59					?	Ditto.
		L	5 53 00						
		F_E	5 53 05						
		F_N	5 53 06						
886	June 1	P	15 02 32						Ditto.
		L	15 02 36						
		F	15 02 49						
887	June 3	P	7 20 02					4890	In Micronesia, P
		$\bar{P}$	7 21 49						Ocean.
		P_{R_1}	7 22 34						
		S_E	7 26 17						
		S_N	7 26 07						
		L	7 30 36						
		eF	8 15 ±						
888	June 5	P	2 26 48						
		L	2 26 51					31	After shock of N
		M	2 26 51		±20				
		F	2 26 58						
889	June 6	P	0 12 18						
		L	0 12 21					22	Ditto.
		M	0 12 21		±95	±100			
		F_E	0 12 36						
		F_N	0 12 32						
890	June 6	P	1 45 16						
		L	1 45 19					24	Ditto.
		M	1 45 19		±65	±50			
		F_E	1 45 28						
		F_N	1 45 26						
	June 6	P	18 12 43					27	Ditto.
		L	18 12 46						
		M	18 12 47		±220	±175			
		eF_E	18 13 48						
		eF_N	18 13 43						
	June 8	P	3 51 06					26	Ditto.
		L	3 51 09						
		M	3 51 09		±83	±45			
		F_E	3 51 22						
		F_N	3 51 18						
	June 8	L	13 15 54						Ditto.
		F_E	13 16 04						
		F_N	13 15 56						
	June 8	P	22 58 58					24	Ditto.
		L	22 59 01						
		M	22 59 01		±50	±30			
		F_E	22 59 09						
		F_N	22 59 04						
	June 9	eP	10 24 45					27	Ditto.
		L	10 24 48						
		M	10 24 48		±13	±15			
		eF	10 24 51						
	June 9	P	16 21 54					24	Ditto.
		L	16 21 57						
		M	16 21 57		±15	±10			
		eF	16 22 02						

No	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
897	June 10	LM	13 52 48						Ditto.
		FN	13 52 50						
898	June 10	P	18 35 42						Ditto.
		LM	18 35 46		±63	±63			
		FE	18 36 03						
		FN	18 36 02						
899	June 11	P	23 52 33					28	Ditto.
		L	23 52 36						
		M	23 52 37		±110	±130			
		FE	23 53 18						
		FN	23 53 51						
900	June 12	L	8 20 46						Central part of I
		F	8 20 59						
901	June 12	eP	19 03 38					28	After shock of N
		L	19 03 42						
		M	19 03 42		±33	±25			
		FE	19 03 49						
		FN	19 03 47						
902	June 13	P	17 46 17					15	Ditto.
		L	17 46 19						
		M	17 46 20		±307	±245			
		CE	17 46 22						
		CN	17 46 24						
		FE	17 47 14						
		FN	17 46 44						
903	June 14	eP	1 16 30					35	Ditto.
		L	1 16 34						
		M	1 16 34		±15	±15			
		eFE	1 16 42						
		eFN	1 16 37						

Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
June 14	P	18 07 29					28	Ditto.
	L	18 07 32						
	M	18 07 33		±15	±25			
	F	18 07 39						
June 14	P	23 28 09					37	Ditto.
	L	23 28 13						
	M	23 28 13		±10				
	F	23 28 19						
June 17	P	9 30 07					27	Ditto.
	L	9 30 10						
	M	9 30 11		±35	±75			
	FE	9 30 35						
	FN	9 30 22						
June 17	P	17 50 36					22	Ditto.
	L	17 50 39						
	M	17 50 39		±10				
	FE	17 50 41						
	FN	17 50 43						
June 17	P	22 02 26					27	Ditto.
	L	22 02 29						
	M	22 02 30		±400	±200			
	C	22 02 33						
	FE	22 03 24						
	FN	22 03 18						
June 17	L	22 03 51					?	Ditto.
	M	22 03 52		±14				
	F	22 03 54						
June 18	P	2 27 32						W. off Hatijo I.
	SE	2 28 31						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		S_N	2 28 27						
		L	2 28 59						
		eF	2 29 00						
911	June 18	LM	7 01 32		±15	±15			After shock of
		F_E	7 01 36						
		F_N	7 01 37						
912	June 18	P	20 53 40					24	Ditto.
		LM	20 53 43		±50	±65			
		F_E	20 54 32						
		F_N	20 54 58						
913	June 19	P	9 33 39					30	Ditto.
		LM	9 33 43		±20	±40			
		F_E	9 33 55						
		F_N	9 33 58						
914	June 19	L	11 04 11					?	Ditto.
		M_E	11 04 11		±15				
		F	11 04 15						
915	June 19	P	12 24 13					30	Ditto.
		L	12 24 16						
		eM	12 24 16		?	±20			
		F	12 24 23						
916	June 19	eP	16 37 06					24	Ditto.
		L	16 37 09						
		M	16 37 10		+8				
		F_E	16 37 13						
		F_N	16 37 15						
917	June 20	eP	0 56 33					22	Ditto.
		L	0 56 36						
		M	0 56 37		±10	±28			
		F_E	0 56 42						
		F_N	0 56 39						
8	June 20	L	2 24 56						Ditto.
		M	2 24 56						
		F	2 24 59						
9	June 21	P	5 27 28					28	Ditto.
		L	5 27 31						
		M	5 27 32		±20	±20			
		F_E	5 27 35						
		F_N	5 27 36						
0	June 22	P	1 33 52					23	Ditto.
		L	1 33 55						
		M	1 33 55		±50	±85			
		F_E	1 34 18						
		F_N	1 34 19						
1	June 24	P	10 42 17					27	Ditto.
		L	10 42 20						
		M	10 42 20		±78	±60			
		F_E	10 43 14						
		F_N	10 42 44						
2	June 24	P	14 22 48						Ditto.
		L	14 22 51						
		M	14 22 51		±10	±13			
		eF_E	14 22 53						
		F_N	14 22 56						
3	June 25	P	6 04 19					35	Ditto.
		L	6 04 23						
		M	6 04 23		±10	?			
		F	6 04 38						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
924	June 25	eP	S 02 56					7	Ditto.
		L	S 02 57						
		M_E	S 02 57		±35				
		M_N	S 02 57			±55			
		F_E	S 03 00						
		F_N	S 03 01						
*925	June 25	P	11 19 05					29	Ditto.
		L	11 19 09						
		M	11 19 09		+33	±75			
		F_E	11 19 23						
		F_N	11 19 20						
*926	June 28	P	18 32 48					22	Ditto.
		L	18 32 50						
		M	18 32 51		±90	±55			
		F_E	18 33 44						
		F_N	18 33 09						
927	June 29	P	0 28 10					31	Ditto.
		L	0 28 14						
		eM	0 28 14		±10				
		F_E	0 28 22						
		eF_N	0 28 26						
*928	June 29	P	0 54 33					19	Ditto.
		L	0 54 35						
		M	0 54 35		±85	±65			
		F_E	0 55 05						
		F_N	0 55 07						
929	July 1	P	13 38 41					19	Ditto.
		L	13 38 43						
		M	13 38 43		±38	±25			
		F_E	13 38 49						
		eF_N	13 38 52						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km	
0	July 1	P	15 27 43					31	Ditto.
		L	15 27 47						
		eM	15 27 48		±85	±125			
		F_E	15 29 03						
		F_N	15 28 29						
1	July 2	P	10 16 12					26	Ditto.
		L	10 16 16						
		M	10 16 16		±20	±15			
		F_E	10 16 21						
		eF_N	10 16 22						
2	July 3	eP	S 21 35						Ditto.
		S	S 26 09						
		eF	S 45 ±						
3	July 3	P	19 42 40					17	Ditto.
		L	19 42 42						
		M	19 42 42		±25	±25			
		F_E	19 43 00						
		F_N	19 43 55						
4	July 4	eP	S 00 47					17	Ditto.
		L	S 00 49						
		M	S 00 50		±30	±10			
		F_E	S 00 54						
		F_N	S 00 56						
5	July 4	eP	15 54 32					22	Ditto.
		L	15 54 34						
		M	15 54 34		−10	±20			
		F_E	15 54 40						
		F_N	15 54 35						
6	July 4	P	17 10 54					56	Near Himeji.
		L	17 11 01						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M	17 11 01		±340	±325			
		F_E	17 12 36						
		F_N	17 12 10						
937	July 5	P	14 50 22					27	After shock of N
		L	14 50 26						
		M	14 50 26		+25	±35			
		F_E	14 50 39						
		F_N	14 50 35						
938	July 5	P	18 05 48					27	Ditto.
		L	18 05 51						
		M	18 05 51		±20	+8			
		F_E	18 05 56						
		F_N	18 06 01						
939	July 5	P	20 04 08					55	Ditto.
		L	20 04 15						
		M	20 04 15		±20	±35			
		F_E	20 04 34						
		F_N	20 04 30						
940	July 5	P	21 41 46					20	Ditto.
		L	21 41 48						
		M	21 41 49		±58	±40			
		F	21 41 57						
941	July 6	P	1 11 44					13	Ditto.
		L	1 11 45						
		M	1 11 46		±13	?			
		F_E	1 11 50						
		F_N	1 11 48						
942	July 6	P	2 14 57					28	Ditto.
		L	2 14 59						
		M	2 14 59		±10	±15			

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
	F_E	2 15 06						
	F_N	2 15 03						
July 7	P	20 34 39					26	Ditto.
	L	20 34 42						
	M	20 34 43		±665	±675			
	F_E	20 36 06						
	F_N	20 35 59						
July 7	P	20 58 44					24	Ditto.
	L	20 58 47						
	M	20 58 47		±10	+23			
	F_E	20 58 50						
	F_N	20 58 50						
July 7	P	8 42 55					28	Ditto.
	L	8 42 58						
	M	8 42 59		±95	±115			
	F_E	8 43 29						
	F_N	8 44 14						
July 8	P	19 38 12					23	Ditto.
	LM	19 38 15		±10	±25			
	F_E	19 38 22						
	F_N	19 38 21						
July 9	P	13 14 41					19	Ditto.
	L	13 14 44						
	M	13 14 44		±35	±45			
	F_E	13 14 51						
	F_N	13 14 49						
July 10	L	2 25 07						Ditto.
	F	2 25 12						
July 11	P	8 09 30						Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		eP	8 09 27						
		eF_E	8 27 ±						
		eF_N	8 23 ±						
950	July 11	P	13 39 49					23	Ditto.
		L	13 37 52						
		M	13 37 52		±200	±270			
		F_E	13 38 26						
		F_N	13 38 15						
951	July 12	P	4 24 53					17	Ditto.
		L	4 24 55						
		M	4 24 55		±58	±38			
		F_E	4 25 06						
		F_N	4 25 07						
952	July 12	P	15 46 59					13	Ditto.
		L	15 47 02						
		M	15 47 02		±23	±35			
		eF_E	15 47 06						
		F_N	15 47 05						
*953	July 12	P	16 02 10						Ditto.
		L	16 02 13						
		M	16 02 13		+85	+60			
		F	16 02 48						
954	July 12	P	21 10 44						Off the Oti-isi P tory, Hokkaido.
		S	21 12 51						
		L	21 15 13						
		M_E	21 16 53	13.0	+50				
		eF_E	21 32 —						
		eF_N	21 28 —					2000	
955	July 14	P	19 56 38					17	After shock of N

Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
		h m s	s	μ	μ	μ	km.	
	L	19 56 40						
	M	19 56 40		±15	±18			
	F	19 56 48						
July 14	L	21 00 51						Ditto.
	eM	21 00 51		±15	±15			
	F	21 00 56						
July 16	L	3 28 56						Ditto.
	M	3 28 56		±18	±20			
	F_E	3 29 02						
	F_N	3 29 58						
July 17	P	8 53 40						In the Kitan Strait.
July 17	eP	16 00 36					27	Ditto.
	L	16 00 39						
	M_E	16 00 39		±15				
	eM_N	16 00 39			±20			
	F	16 00 47						
July 18	P	13 26 22					26	Ditto.
	L	13 26 25						
	M	13 26 26		±70	±55			
	F_E	13 26 43						
	F_N	13 26 35						
July 18	P	18 13 53					27	Ditto.
	L	18 13 56						
	M	18 13 56		±15				
	F	18 14 01						
July 18	P	18 16 09					20	Ditto.
	L	18 16 11						
	eM	18 16 11						
	eF	18 16 17						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
963	July 19	P	22 20 33					22	Near the mou
		L	22 20 36						River Maruyama
		M_E	22 20 36		±15				Province.
		F	22 20 54						
964	July 20	P	3 48 23					196	Upper course o
		L	3 48 44						Miya, Ise Provin
		M	3 48 57		−20	±15			
		F_E	3 49 44						
		F_N	3 49 34						
965	July 21	P	15 57 47						After shock of
		LM	15 57 51		−55	±35			
		F	15 58 00						
966	July 22	P	4 42 02					22	Upper course o
		L	4 42 05						Kako, Harima P
		M_E	4 42 05		±680				
		eM_N	4 42 06			±360			
		F_E	4 43 37						
		F_N	4 42 59						
967	July 22	P	17 28 43					22	After shock of
		LM	17 28 46		±15				
		F	17 28 55						
968	July 22	L	22 08 05						Ditto.
		M	22 08 06		±15	±15			
		F_E	22 08 10						
969	July 23	eP	17 24 00						Ditto.
970	July 24	P	0 23 34					39	Ditto.
		L	0 23 39						
		M	0 23 39		±13	±15			
		F_E	0 23 47						
		F_N	0 23 54						
971	July 24	P	4 55 46					27	Ditto.
		L	4 55 49						
		M	4 55 49		±15	±20			
		F_E	4 55 57						
		F_N	4 55 54						
972	July 25	P	8 40 52					19	Ditto.
		L	8 40 54						
		M	8 40 55		±155	±125			
		F_E	8 41 07						
		F_N	8 41 22						
973	July 27	P	14 53 04					599	NE. off Hatijo I.
		eL	14 54 44						
		M_E	14 55 21		−48				
		M_N	14 55 10			+65			
		C_E	14 56 21						
		C_N	14 55 39						
		F	15 00 37						
974	July 29	P	18 07 18					20	After shock of No. 23.
		L	18 07 20						
		eM	18 07 21		±13	±20			
		F_E	18 07 31						
		F_N	18 07 25						
975	July 30	P	14 19 44					445	In the sea of Kasima.
		L	14 20 39						
		M	14 21 22		−90	+365			
		F	14 30 52						
976	July 30	P	19 09 20					23	After shock of No. 23.
		L	19 09 23						
		M	19 09 22		±43	±30			
		F	19 09 30						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
*977	July 30	P	22 56 32					26	Ditto.
		L	22 56 34						
		M	22 56 36		±11	±60			
		F	22 57 13						
*978	Aug. 1	P	14 50 59					31	Ditto.
		L	14 51 03						
		M	14 51 03		±100	±150			
		F_E	14 51 46						
		F_N	14 51 22						
979	Aug. 2	LM	15 24 31						Ditto.
		F_E	15 24 34						
		eF_N	15 24 34						
980	Aug. 3	P	9 53 48					24	Ditto.
		L	9 53 51						
		M	9 53 51		±25				
		F	9 54 06						
981	Aug. 3	P	22 38 34					24	Ditto.
		L	22 38 37						
		M	22 38 38		±100				
		F	22 38 49						
982	Aug. 5	P	2 45 15					24	Ditto.
		L	2 45 18						
		M	2 45 18		±265	±115			
		F_E	2 46 23						
		F_N	2 46 54						
983	Aug. 5	P	12 40 47					26	In the Bay of Kumihama.
		L	12 40 51		±450	±1840			
		M	12 40 52						
		F_E	12 43 07						
		F_N	12 42 54						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
984	Aug. 5	P	13 19 29					22	After shock of No. 23.
		L	13 19 31						
		eM	13 19 31						
		F	13 19 34						
985	Aug. 5	P	21 14 32					753	Off the mouth of the Abukuma River.
		S	21 15 44						
		L	21 16 15						
		M	21 17 08	8.4	±1925	+4550			
		C	21 22 44						
		F	22 09 17						
986	Aug. 6	L	1 56 41						After shock of No. 23.
		M	1 56 42		±10	±15			
		F	1 56 50						
987	Aug. 6	P	4 31 40					27	Ditto.
		L	4 31 07						
		M	4 31 07		±35	±25			
		F	4 31 15						
988	Aug. 6	P	7 26 45					23	Ditto.
		L	7 26 48						
		M	7 26 48	0.3	±85	±66			
		F	7 27 06						
989	Aug. 6	P	15 20 05					20	Ditto.
		L	15 20 07						
		M	15 20 07		±170	±110			
		F_E	15 20 27						
		F_N	15 20 36						
990	Aug. 6	L	23 59 53						Ditto.
		M	23 59 54		±10	±35			
		F	23 59 58						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
991	Aug. 7	L	1 43 07						Ditto.
		M	1 43 07		±9	±30			
		F	1 43 10						
992	Aug. 7	P	8 27 55					17	Ditto.
		L	8 27 57						
		M	8 27 57		±16	±45			
		F	8 28 01						
993	Aug. 7	eP	11 08 43					18	Ditto.
		L	11 08 45						
		M	11 08 45		±39	±35			
		F	11 08 59						
994	Aug. 8	eP	1 02 34					2290	In the basin of the Isikari, Hokkaido.
		L	1 06 23						
		M	1 06 28	6.8	±33	±15			
		F_E	1 17 32						
		F_N	1 16 56						
995	Aug. 8	P	14 02 12					24	After shock of No. 23.
		L	14 02 15						
		M	14 02 15		±17	±17			
		F	14 02 23						
996	Aug. 9	P	1 14 36					50	Ditto.
		L	1 14 43						
		M	1 14 43		±40	±53			
		F	1 15 11						
997	Aug. 10	P	11 43 11					5280	A distant earthquake; probably in Micronesia, Pacific Ocean.
		S	11 48 50						
		L	11 54 47						
		M	11 56 27		±45	±50	±14		
		F	12 29 ±						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
998	Aug. 12	eP	0 36 00					747	NW. off Benin Ils.
✓		L	0 37 41						
		M	0 37 46	6.2	±85	−175			
		F_E	0 55 ±						
		F_N	0 57 ±						
*999	Aug. 12	P	1 25 07					58	Near Himeji.
		L	1 25 14						
		M	1 25 15		±185	±170			
		F	1 26 23						
1000	Aug. 13	P	5 13 14					22	After shock of No. 23.
		L	5 13 16						
		M	5 13 18		±20	±35			
		F_E	5 13 43						
		F_N	5 13 38						
1001	Aug. 13	L	23 26 51						Ditto.
		M	23 26 51		±13	±20			
		F	23 26 55						
1002	Aug. 15	P	13 41 16					30	Ditto.
		L	13 41 20						
		M	13 41 20		±18	±25			
		F	13 41 26						
1003	Aug. 16	P	11 23 20					56	Near Himeji.
		L	11 23 27						
		M	11 23 28		±165	±150			
		F_E	11 24 46						
		F_N	11 24 47						
1004	Aug. 16	P	14 25 15					60	After shock of No. 23.
		L	14 25 23						
		M	14 25 23		±25	±40			
		F_E	14 25 58						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		FN	14 25 43						
1005	Aug. 17	P	3 12 18					58	Ditto.
		L	3 12 26						
		M	3 12 26		±10	±16			
		F	3 12 40						
1006	Aug. 17	P	22 24 11					36	Ditto.
		L	22 24 16						
		M	22 24 16		±25	±31			
		F	22 24 53						
1007	Aug. 18	P	9 06 48					17	Ditto.
		L	9 06 50						
		M	9 06 50		±43	±45			
		FE	9 06 55						
		FN	9 06 51						
1008	Aug. 18	P	19 29 20					1046	Far off the Bōso Peninsula.
		L	19 31 41						
		M	19 33 14	9.0	±2285	−1375			
		C	19 40 26						
		F	21 21 ±						
1009	Aug. 19	P	3 45 52					30	In the Bay of Kumihama.
		L	3 45 55						
		M	3 45 58		±93	±100			
		F	3 46 34						
1010	Aug. 19	P	14 03 11					23	After shock of No. 23.
		L	14 03 13						
		M	14 03 14		±23	±20			
		F	14 03 22						
1011	Aug. 19	eP	23 19 44						Far off the Bōso Peninsula.
		eL	23 20 37						
		eFE	23 27 21						
1012	Aug. 20	P	6 20 43					13	After shock of No. 23.
		L	6 20 44						
		M	6 20 44		±20	±35			
		FE	6 20 52						
		FN	6 20 49						
1013	Aug. 20	P	21 38 52						SSE. off Tyosi.
		eL	21 40 39						
		M	21 42 49	8.1	−225	−175			
		C	21 46 47						
		F	22 27 39						
1014	Aug. 22	iP	4 58 27					17	After shock of No. 23.
		iL	4 58 29						
		M	4 58 30		±20	±13			
		iFE	4 58 38						
		eFN	4 58 40						
1015	Aug. 23	iP	6 30 28						NNE. off Bonin Ils.
		eS	6 31 55						
		eL	6 33 42						
		ME	6 36 25	8.3	−1300				
		MN	6 35 36	8.9		−450			
		CE	6 39 46						
		eCN	6 38 19						
		eFE	7 11 ±						
		eFN	7 01 ±						
*1016	Aug. 23	P	9 31 28					23	After shock of No. 23.
		L	9 31 31						
		M	9 31 31		±120	±115			
		FE	9 31 46						
		FN	9 31 40						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1017	Aug. 24	P	8 57 38					1158	E. off Cape Siwoya, Iwaki Province.
		L	9 00 12						
		ME	9 01 26	8.6	+165				
		MN	9 00 21	6.5		−325			
		eFE	9 56 38						
		eFN	9 23 24						
1018	Aug. 24	P	18 13 19						S. part of Formosa.
		eS	18 19 16						
		L	18 22 55						
		eFE	18 36 38						
		eFN	18 35 24						
1019	Aug. 28	P	0 57 27					27	After shock of No. 23.
		L	0 57 30						
		iME	0 57 31		±13				
		eMN	0 57 30			±20			
		FE	0 57 38						
		FN	0 57 35						
1020	Aug. 28	P	7 28 01					24	Ditto.
		L	7 28 04						
		eME	7 28 05		±15				
		eMN	7 28 04						
		FE	7 28 08						
		eFN	7 28 06						
1021	Aug. 29	L	5 37 30						E. off Cape Siwoya.
		ME	5 39 23	13.0	−35				
		eMN	5 39 14	6.5		−40			
		eFE	5 51 37						
		eFN	5 50 ±						
1022	Aug. 29	P	7 44 32						S. off Cape Erimo.
		L	7 48 19						

No.	Date	Phase	Time G M. T.	Period	Amplitude AE	AN	AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1023	Aug. 30	P	14 03 35						
		L	14 03 38					31	After shock of No. 23.
		M	14 03 39		±20	±15			
		iFE	14 04 10						
		eFN	14 03 44						
*1024	Sept. 1	P	19 59 01		−20	−15		24	Ditto.
		L	19 59 04						
		ME	19 59 04		+110				
		eMN	19 59 05			±145			
		FE	19 59 37						
		FN	19 59 40						
1025	Sept. 3	P	19 27 34					24	Ditto.
		L	19 27 36						
		M	19 27 37		±18	±18			
		FE	18 27 45						
		FN	19 27 43						
1026	Sept. 5	P	0 34 08					445	Near the mouth of the Naka River.
		L	0 35 08						
		eME	0 35 44		+18	+13			
		eMN	0 35 42						
		eFN	0 39 ±						
1027	Sept. 5	P	13 58 10					24	After shock of No. 23.
		L	13 58 13						
		ME	13 58 14		±20	±30			
		MN	13 58 15						
		FE	13 58 28						
		FN	13 58 18						
1028	Sept. 5	P	21 15 00					27	Ditto.
		L	21 15 03						
		M	21 15 03		±13	±20			
		FE	21 15 18						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F_N	21 15 13						
1029	Sept. 5	P	22 40 36						Near Mt. Tanzawa.
		eL	22 41 16						
1030	Sept. 6	P	7 47 50					22	After shock of No. 23.
		L	7 47 53						
		eM	7 47 53		±10	±10			
		F_E	7 48 13						
		F_N	7 48 09						
*1031	Sept. 6	P	21 07 08					19	Ditto.
		L	21 07 10						
		M	21 07 10		±25	±35			
		F_E	21 07 22						
		F_N	21 07 16						
1032	Sept. 12	P	15 30 16					316	S. off Cape Onmae.
		L	15 30 59						
		M_E	15 31 01		−85				
		M_N	15 30 59			−30			
		F_E	15 35 41						
		eF_N	15 35 56						
1033	Sept. 17	L	15 13 05						W. off Yaku I, Kagosima Prefecture.
		M_E	15 13 57		+65				
		M_N	15 13 18			−60			
		F_E	15 19 24						
		F_N	15 19 34						
*1034	Sept. 17	P	22 17 52						
		L	22 17 54					19	After shock of No. 23.
		M	22 17 55		±35	±95			
		F	22 18 05						
1035	Sept. 18	LM	12 33 10		±20	±18			Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F	12 33 15						
*1036	Sept. 19	P	12 22 31					24	Ditto.
		L	12 22 34						
		M	12 22 34		±45	±43			
		F_E	12 22 45						
		eF_N	12 22 40						
1037	Sept. 22	P	17 17 59					22	Ditto.
		L	17 18 02						
		M	17 18 02		±35	±35			
		F_E	17 18 12						
		F_N	17 18 09						
*1038	Sept. 22	P	20 11 19					20	Ditto.
		L	20 11 22						
		M	20 11 22		±45	±163			
		F	20 12 ±						
1039	Sept. 22	P	20 12 07					22	Ditto.
		L	20 12 10						
		M	20 12 10		±10	±30			
		F_E	20 12 19						
		F_N	20 12 27						
1040	Sept. 22	P	20 18 21					19	Ditto.
		L	20 18 23						
		M_N	20 18 23			±45			
		eF_E	20 18 36						
		F_N	20 18 34						
1041	Sept. 23	P	1 29 49					3	Local shock.
		L	1 29 49						
		M	1 29 50		±17	±20			
		F	1 30 ±						

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1042	Sept. 23	L	12 54 41						
		M	12 54 41						
		F	12 54 43						
1043	Sept. 24	P	20 09 39					24	After shock of No. 23.
		L	20 09 42						
		M	20 09 42		±15	±18			
		F	20 09 44						
*1044	Sept. 24	eP	21 09 18					22	Ditto.
		L	21 09 21						
		ME	21 09 21		±60				
		eMN	21 09 22			±25			
		FE	21 10 31						
		eFN	21 09 25						
1045	Sept. 26	P	23 38 43						
		L	23 38 47					29	Ditto.
		M	23 38 47		±10	±15			
		F	23 38 51						
1046	Sept. 30	P	7 40 27						
		eL	7 43 32		+5	+5			Off Cape Siriya.
		MN	7 43 45						
		eF	7 51 30			+75			
1047	Oct. 1	P	5 52 31						
		L	5 52 34					27	After shock of No. 23.
		ME	5 52 34		±15				
		FE	5 52 40						
*1048	Oct. 2	P	23 29 50						
		L	23 29 54					30	Ditto.
		ME	23 29 54		±55				
		MN	23 29 56						
		FE	23 30 28			±125			

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1049	Oct. 8	P	12 28 01						Ditto.
		FE	12 48 ±						
1050	Oct. 11	P	1 14 20					570	In the Sea of Kasima.
		S	1 15 23						
		L	1 15 43						
		ME	1 15 49		−38				
		MN	1 15 51	5.2		−140			
		eFE	1 22 ±						
		eFN	1 24 ±						
1051	Oct. 11	L	1 32 57						Off Noto Peninsula.
		ME	1 32 57		±18				
		MN	1 32 58			±15			
		FE	1 33 00						
		eFN	1 33 01						
1052	Oct. 11	P	11 33 46					19	After shock of No. 23.
		L	11 33 48						
		M	11 33 49		±17	±20			
		FE	11 33 51						
		eFN	11 33 50						
1053	Oct. 11	P	17 32 55					1046	E. off Cape Erimo.
		S	17 34 47						
		eL	17 35 16						
		eFE	17 44 37						
		eFN	17 43 ±						
1054	Oct. 14	P	3 36 55					24	After shock of No. 23.
		L	3 36 58						
		M	3 36 59		±25	±20			
		F	3 37 05						
1055	Oct. 17	eP	2 10 57					13	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		L	2 10 59						
		M	2 10 59		±65	±55			
		FE	2 11 07						
		FN	2 11 05						
1056	Oct. 19	P	14 41 10					15	Ditto.
		L	14 41 12						
		M	14 41 12		±13	−20			
		FE	14 41 20						
		FN	14 41 16						
*1057	Oct. 21	P	18 57 42					28	Ditto.
		L	18 57 46						
		M	18 57 46		+95	+70			
		FE	18 58 02						
1058	Oct. 24	P	19 07 19					1744	S. far off Bōso Peninsula.
		eS	19 08 49						
		eL	19 09 54						
		ME	19 13 01	8.3	+471				
		eFE	19 34 −						
		eFN	19 26 −						
1059	Oct. 27	P	2 26 05					6	Local shock.
		L	2 26 05						
		M	2 26 06		±48	±50			
		FE	2 26 24						
		FN	2 26 26						
1060	Oct. 27	P	15 13 26					25	After shock of No. 23.
		L	15 13 29						
		M	15 13 30		±13	±15			
		FE	15 14 39						
		FN	15 14 34						
1061	Oct. 28	eP	15 23 12						SE. far off Bōso Peninsula.

No.	Date	Phase	Time G. M. T.	Period	Amplitude AE	Amplitude AN	Amplitude AZ	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1062	Oct. 31	P	21 18 54					28	After shock of No. 23.
		L	21 18 57						
		M	21 18 58		±15	±23			
		F	21 19 −						
1063	Nov. 4	P	14 03 18		+3	+4			A distant earthquake.
		S	14 13 29						
		eL	14 25 12						
		eMN	14 25 45	16.5		−11			
		eF	14 55 −						
1064	Nov. 5	P	11 52 08					24	In the basin of the Maruyama, Tajima Province.
		L	11 52 11						
		ME	11 52 12						
		FE	11 52 26						
1065	Nov. 5	P	15 26 37					27	Ditto.
		L	15 26 41						
		M	15 26 41		±11	±6			
		F	15 26 49						
1066	Nov. 5	P	23 23 45					32	After shock of No. 23.
		L	23 23 50						
		M	23 23 50		±31	±14			
		F	23 24 26						
1067	Nov. 6	P	16 57 38					21	In the basin of the Maruyama River.
		L	16 57 41						
		M	16 57 41		±28	±24			
		F	16 58 ±						
1068	Nov. 6	P	20 42 04					21	Ditto.
		L	20 42 07						
		M	20 42 12		±11	±11			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F_E	20 42 12						
		F_N	20 42 15						
1069	Nov. 7	P	19 48 53					21	Ditto.
		L	19 48 56						
		M	19 48 56		±4	±5			
		F	19 49 00						
1070	Nov. 8	eP	23 50 52					11	After shock of No. 23.
		L	23 50 53						
		M_N	23 50 54			±8			
		F_N	23 50 59						
1071	Nov. 9	P	6 25 44					22	Ditto.
		L	6 25 47						
		M	6 25 47		±12	±14			
		F_E	6 25 55						
		F_N	6 25 53						
*1072	Nov. 10	P	2 43 31					23	Ditto.
		L	2 43 34						
		M	2 43 34		±94	±113			
		F	2 44 ±						
1073	Nov. 10	P	7 23 36					22	Ditto.
		L	7 23 39						
		M	7 23 39		±8	±6			
		F	7 23 44						
1074	Nov. 10	P	14 37 18					23	In the basin of the Maruyama River.
		L	14 37 21						
		M	14 37 22		±35	±15			
		F	14 37 30						
1075	Nov. 10	P	19 49 05					7	Ditto.
		L	19 49 06						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		M	19 49 06		+60	−44			
		F	19 53 −						
*1076	Nov. 11	P	2 47 35					36	After shock of No. 23.
		L	2 47 48						
		M	2 47 48		±100	±233			
		F_E	2 49 20						
		F_N	2 49 19						
1077	Nov. 11	P	15 02 57					23	In the basin of the Maruyama River.
		L	15 03 00						
		M_E	15 03 00		±5				
		F	15 03 05						
1078	Nov. 11	P	15 44 33					23	Ditto.
		L	15 44 36						
		M	15 44 36		±19	±39			
		F	15 44 50						
1079	Nov. 11	P	18 48 53					18	Ditto.
		L	18 48 55						
		M	18 48 55		±5	±5			
		eF_E	18 48 58						
		eF_N	18 48 59						
1080	Nov. 12	P	0 24 21					23	Ditto.
		L	0 24 24						
		M	0 24 25		±10	±31			
		F	0 24 38						
1081	Nov. 12	P	19 12 25					22	In the basin of the Maruyama River.
		L	19 12 28						
		M_E	19 12 28		±13				
		M_N	19 12 29			±9			
		F	19 12 32						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1082	Nov. 14	eP	0 22 36						A distant earthquake.
		L	0 29 28						
		M_1E	0 30 56	12.6	−12				
		M_2E	0 33 22	12.6	+24				
		M_3N	0 33 25	17.4		−31			
		eF_E	0 52 ±						
		eF_N	0 54 ±						
1083	Nov. 14	eP	5 06 28						A distant earthquake.
		L	5 14 23						
		M_1E	5 18 37	11.6	+41				
		M_1N	5 18 16	14.5		+75			
		M_2E	5 21 24	12.6	−9				
		M_2N	5 21 26	12.6		−23			
		M_3N	5 23 13	10.6		−20			
		eF_E	5 37 21						
1084	Nov. 14	P	19 47 07						
		L	19 53 14					3125	SE. off Bonin Ils.
		M_E	19 55 33	7.7	+8				
		eF_N	20 04 47						
1085	Nov. 14	P	21 10 14						
		LM	21 10 17		±10	±15		17	In the basin of the Maruyama River.
		F	21 10 23						
1086	Nov. 15	P	4 14 18						
		L	4 14 21					23	Ditto.
		M	4 14 21		±10	±12			
		F	4 14 26						
*1087	Nov. 15	P	15 01 47						
		L	15 01 48					11	After shock of No. 23.
		M	15 01 48		−125	+75			
		F	15 02 04						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1088	Nov. 16	P	0 58 29						
		L	0 58 30					12	Ditto.
		M	0 58 31		±31	±34			
		F	0 58 41						
*1089	Nov. 16	P	11 29 05		+4	+10			
		LM	11 30 08		±456	±403		26	Ditto.
		F_N	11 30 50						
1090	Nov. 16	P	19 14 58						
		L	19 15 00					17	Ditto.
		M	19 15 00		±4	±9			
		F	19 15 04						
1091	Nov. 16	P	19 39 44						
		F	19 39 54						Ditto.
1092	Nov. 17	P	10 11 23						
		LM	10 11 24			±4		10	In the basin of the Maruyama River.
		F	10 11 28						
1093	Nov. 18	P	15 48 00						
		L	15 48 04					24	Ditto.
		M	15 48 04		±15	+10			
		F	15 48 08						
1094	Nov. 22	P	6 31 03						
		L	6 31 07					26	After shock of No. 23.
		M	6 31 07		±10				
		F	6 31 12						
1095	Nov. 22	P	19 14 26						
		L	19 14 28					19	In the basin of the Maruyama River.
		M	19 14 29		±13				
		F_E	19 14 34						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1096	Nov. 24	P	14 09 50					25	After shock of No. 23.
		L	14 09 53						
		eM	14 09 54			±8			
		eF_E	14 09 59						
		F_N	14 09 59						
1097	Nov. 25	P	13 43 41					20	In the basin of the Maruyama River.
		L	13 43 44						
		M	13 43 44		±6	±5			
		F_E	14 43 50						
1098	Nov. 26	P	11 10 54					24	After shock of No. 23.
		L	11 10 57						
		M_E	11 10 58		±91				
		eM_N	11 10 57			±50			
		F_E	11 11 16						
		F_N	11 11 17						
1099	Nov. 26	P	15 15 54					17	In the basin of the Maruyama River.
		L	15 15 56						
		eM	15 15 57		±5	±5			
		eF_E	15 16 02						
		eF_N	15 16 03						
1100	Nov. 26	LM	21 47 19			±8			Ditto.
		eF	21 47 24						
1101	Nov. 27	P	2 18 08					27	After shock of No. 23.
		L	2 18 11						
		M	2 18 14		±71	±34			
		F	2 18 27						
1102	Nov. 27	P	21 28 18					15	In the basin of the Maruyama River.
		L	21 28 20						
		F	21 28 24						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1103	Nov. 28	P	0 20 55					22	Ditto.
		L	0 20 58						
		M	0 20 58		±39	±14			
		F	0 21 12						
1104	Nov. 28	P	20 26 04					20	Ditto.
		LM	20 26 07		±4				
		eF	20 26 11						
1105	Nov. 29	P	17 54 34					28	Ditto.
		L	17 54 38						
		M	17 54 38		±18	±13			
		F_E	17 54 48						
		F_N	17 54 43						
1106	Nov. 29	P	23 08 58					25	Ditto.
		L	23 09 02						
		M	23 09 02		±11	+14			
		F	23 09 10						
1107	Nov. 30	P	9 16 37						Upper course of the River Gōnogawa, NW. part of Bingo Province.
		M	9 17 38		±5				
		F	9 17 49						
1108	Nov. 30	P	17 45 13					25	In the basin of the Maruyama River.
		L	17 45 16						
		M	17 45 17		±5				
		F_E	17 45 19						
		eF_N	17 45 18						
*1109	Dec. 2	P	6 55 38					146	Middle course of the Arita, Wakayama Prefecture.
		L	6 55 57						
		M	6 55 02	1.6	−169	−81			
		F_E	6 01 01						
		F_N	6 01 20						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1110	Dec. 2	P	7 00 05					23	In the basin of the Maruyama River.
		L	7 00 08						
		M	7 00 08		±32	±11			
		F	7 00 15						
1111	Dec. 2	P	19 31 30					20	Ditto.
		L	19 31 32						
		M	19 31 33		±21	±15			
		F	19 31 41						
*1112	Dec. 4	P	0 56 04					25	After shock of No. 23.
		LM	0 56 07		±530				
*1113	Dec. 4	P	3 34 13					25	Ditto.
		L	3 34 16						
		M	3 34 16		±169	±75			
		F_E	3 34 42						
		F_N	3 34 38						
1114	Dec. 4	P	3 54 28					492	In the Bay of Tiji-iwa.
		L	3 55 34						
		M	3 55 47	3.3	+26	−44			
		F_E	3 01 46						
		F_N	3 02 11						
*1115	Dec. 4	P	9 28 16					24	After ahock of No. 23.
		L	9 28 19						
		M	9 28 19		±96	±54			
		F_E	9 28 40						
		F_N	9 28 41						
1116	Dec. 4	P	12 16 44					480	In the Bay of Tiji-iwa.
		L	12 20 48						
		M	12 20 51		−19	−31			
		eF_E	12 24 59						
		eF_N	12 24 49						

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1117	Dec. 7	P	1 17 30					23	In the basin of the Maruyama.
		L	1 17 34						
		M	1 17 34		±11	±11			
		F	1 17 37						
1118	Dec. 7	P	16 18 13					25	After shock of No. 23.
		L	16 18 16						
		M	16 18 18		±178	±153			
		F_E	16 19 07						
		F_N	16 18 55						
1119	Dec. 7	P	17 14 05					23	Ditto.
		LM	17 14 08		±8	±8			
		eF	17 14 25						
1120	Dec. 10	P	2 45 26					393	Middle course of the Sinano.
		L	2 46 19						
		M	2 46 21		−25	−29			
		eF	2 48 58						
1121	Dec. 10	P	20 17 24					22	In the basin of the Maruyama.
		L	20 17 27						
		M	20 17 27		±8	±5			
		F	20 17 33						
1122	Dec. 10	eP	20 17 42					41	Ditto.
		L	20 17 48						
		M	20 17 48		±8	±4			
		F	20 17 51						
1123	Dec. 11	P	2 20 19					19	Ditto.
		L	2 20 22						
		M	2 20 22		±9	±35			
		F_E	2 20 47						
		F_N	2 20 33						

No	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
1124	Dec. 11	P	7 27 34					25	Ditto.
		L	7 27 38						
		M_E	7 27 38		±25				
		M_N	7 27 38			±20			
		F_E	7 27 52						
		F_N	7 27 46						
1125	Dec. 13	P	5 55 48					19	Ditto.
		L	5 55 51						
		M	5 55 51		+6	+13			
		F	5 55 59						
1126	Dec. 15	P	21 59 56					24	Ditto.
		L	21 59 59						
		M	21 59 59		±11	±9			
		eF	22 00 05						
1127	Dec. 16	P	2 35 46					24	Ditto.
		L	2 35 49						
		M	2 35 50		±13	±18			
		F	2 35 56						
1128	Dec. 16	P	12 38 33					21	Ditto.
		L	12 38 36						
		M	12 38 36		±23	±27			
		F_E	12 38 49						
		F_N	12 38 48						
1129	Dec. 17	P	2 37 22					19	Ditto.
		L	2 37 25						
		eM	2 37 25		±9	±9			
		F	2 37 41						
1130	Dec. 17	P	5 28 59					19	After shock of No. 23.
		L	5 29 02						
		M	5 29 02		−188	−198			

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		F_E	5 29 34						
1131	Dec. 17	eP	15 10 10					8	In the basin of the Maruyama.
		LM	15 10 11		±5	±4			
		F	15 10 15						
1132	Dec. 18	P	13 41 07					17	Ditto.
		LM	13 41 10		±6	±6			
		F	13 41 11						
1133	Dec. 18	eP	19 51 03						Central part of the Japan Sea.
		L	19 52 19						
		M	19 52 25		−9	−23			
		eF	19 55 00						
1134	Dec. 20	P	14 13 30					22	After shock of No. 23.
		L	14 13 33						
		M	14 13 34		±58	±34			
		F	14 13 49						
1135	Dec. 21	P	21 58 06					22	In the basin of the Maruyama.
		L	21 58 09						
		M	21 58 09		+16				
		eM_N	21 58 09			±14			
		F	21 58 15						
1136	Dec. 22	P	11 42 20					28	After shock of No. 23.
		L	11 42 24						
		M	11 42 24		−119	−56			
		F	11 42 49						
1137	Dec. 23	eP	11 00 35					14	In the basin of the Maruyama.
		LM	11 00 37			±8			
		eF	11 00 41						
1138	Dec. 28	P	0 44 53					22	Ditto.

No.	Date	Phase	Time G. M. T.	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Δ	Remarks
			h m s	s	μ	μ	μ	km.	
		LM	0 44 51		+7	±9			
		F	0 45 41						
*1139	Dec. 28	P	3 35 00					22	Ditto.
		L	3 35 03						
		M	3 35 04		±125	±136			
		F	3 35 18						
1140	Dec. 28	L	13 02 34		±4				Ditto.
		F	13 02 37						
1141	Dec. 28	P	13 02 43					30	Ditto.
		LM_E	13 02 48		±11				
		eM_N	13 02 48			±9			
		F	13 02 55						
1142	Dec. 28	P	17 03 24					20	Ditto.
		L	17 03 26						
		M	17 03 27		±10				
		F	17 03 31						
1143	Dec. 28	eP	18 26 26						A distant earthquake.
		L	18 31 01						
		M	18 36 41	20.0	−88	−53			
		C	18 48 04						
		eF	19 37 26						
1144	Dec. 29	P	11 49 46					28	After shock of No. 23.
		L	11 49 50						
		M	11 49 50		±46	±39			
		F_E	11 50 07						
		F_N	11 50 12						
1145	Dec. 29	P	13 15 02						In the basin of the Maruyama.
		L	13 15 06						
		M	13 15 06		±24	±24			
		F	13 15 27						
1146	Dec. 29	P	13 16 28					22	Ditto.
		L	13 16 31						
		M	13 16 32		±23	±36			
		F	13 16 46						
1147	Dec. 29	P	18 18 43					23	After shock of No. 23.
		LM	18 18 46		±8	±8			
		F	18 18 53						
1148	Dec. 29	P	22 11 15					22	In the basin of the Maruyama.
		L	22 11 18						
		M	22 11 18		+8	±8			
		F	22 11 24						
*1149	Dec. 30	P	4 52 33					21	Ditto.
		L	4 52 36						
		M	4 52 36		−113	±96			
		F_E	4 53 05						
		F_N	4 52 59						
1150	Dec. 30	P	19 49 57					24	Ditto.
		L	19 50 01						
		M	19 50 10		±8	±6			
		F_E	19 50 07						

Corrigenda

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266	1116	P 12 16 44	P 12 19 44