ŌSAKA

SEISMOLOGICAL BULLETIN

of the Ōsaka Meteorological Observatory, Nippon (Japan)

International Seismological Centre

[φ=34° 39′ N. λ=135° 32′ E.
Elevation=5.2m]

From January to March 26 00 (19 40)

Date from which Constants Apply	Instrument.		T_0	$\frac{r}{T_0^2}$	ε	V
Nov. 9, 1939	Wiechert's	N	5.6	0.020	3.8	83
		E	5.6	0.011	4.8	82
		Z	5.3	0.013	3.8	66
Jan. 13, 1940	"	N	5.5	0.012	4.3	88
		E	5.4	0.015	4.2	84
		Z	5.1	0.013	3.3	70

No.	Date	Phase	Time (G. M. T.) h. m. s.	Amplitude (μ)	Period (s)	Remarks
1	Dec. 31 1939	P	23 42 18.4			Intensity: (I)*
		S	42 25.3			
		MN	43 25.4	-355	1.3	
		ME	43 4.3	+223	1.5	
		MZ	43 7.2	+140	1.1	
		F	23 55 -			
2	Jan. 3 1940	P	5 55 31.8			
		S	55 38.4			
		MN	55 41.0	+36	0.6	
		ME	55 44.5	+24	0.4	
		MZ	55 44.1	-10	0.2	
		F	6 6 -			
3	3	P	14 11 31.6			Epicenter 141.6 E 36.6 N
		S	12 45.8			
		MN	13 5.4	23	3.5	
		ME	13 10.7	+15	3.5	
		MZ	13 20.5	+12	3.1	
		F	14 20 -			
6	6	P	14 13 0.8			
		S	22 35.3			
		MN	24 5.0	-60	4.9	
		ME	24 1.4	-47	4.9	
		MZ	24 11.3	-22	3.9	
		F	- - -			

* Showing that shocks were felt by person. The intensity is given by 6 classes, from I to VI .

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International Seismological Centre

No. 2

No.	Date	Phase	Time (G. M. T.) h. m. s.	Amplitude (μ)	Period (s)	Remarks
9	Jan. 7	P	5 52 57.1			Epicenter
		S	54 3.8			141.4 E
		MN	54 24.4	-44	3.1	36.8 N
		ME	54 45.9	+30	3.5	
		F	6 5 -			
12	17	P	0 16 0.4			Epicenter
		S	16 51.1			140.0 E
		MN	17 47.9	± 15	3.7	33.9 N
		ME	17 41.6	± 9	3.3	
		MZ	16 58.7	±10	2.1	
		F	0 22 -			
13	17	P	1 19 36.1			Epicenter
		S	23 25.1			17 N
		MN	23 49.1	± 344	4.9	148 E
		ME	23 59.7	±356	5.5	
		MZ	23 56.1	± 82	5.5	
		F	2 28 -			
15	26	iP	17 6 17.3	+0(E) -17(N)		Epicenter
			8	+36(Z)		26.8 N
		S	8 4.0			131.2 E
		MN	10 29.5	± 115	5.6	
		ME	10 35.8	± 91	5.1	
		MZ	11 45.8	± 224	10.7	
		F	17 51 -			
16	27	P	14 50 34.2			Epicenter
		S	51 8.0			34.1 N
		MN	53 12.8	± 248	5.3	138.9 E
		ME	55 5.3	± 151	5.1	
		MZ	52 11.6	± 62	2.6	
		F	15 7 -			
17	Feb. 5	P	11 24 40.6			
		S	24 51.6			
		MN	25 13.9	-16	1.3	
		ME	25 15.0	+15	2.2	
		MZ	25 17.8	+13	2.0	
		F	11 31 -			
19	9	P	4 21 32.8			Epicenter
		S	22 42.5			141.5 E
		MN	23 29.4	-32	2.8	37.5 N
		ME	23 27.3	+25	3.2	
		MZ	23 34.7	-15	2.1	
		F	4 29 -			

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International Seismological Centre

No.3

No.	Date	Phase	Time (G. M. T.) h.	m.	s.	Amplitude (μ)	Period (s)	Remarks
21	Feb. 9	P	13	55	39.7			Epicenter
		S		57	16.7			40.2 N
		MN		58	23.0	-58	4.6	142.5 E
		ME		58	10.2	+69	3.8	
		MZ		59	4.8	-30	2.8	
		F	14	7	-			
25	20	iP	2	27	48.3	+19(Z)		
		S		35	27.6			
		MN		35	52.7	± 41	5.2	
		ME		55	52.1	± 27	5.7	
		MZ		27	50.1	± 24	3.4	
		F	2	53	-			
26	22	P	13	35	4.5			
		S		38	0.3			
		MN		40	20.7	± 13	4.4	
		ME		38	43.0	± 13	4.4	
		MZ		36	19.5	± 8	3.1	
		F	13	45	-			
28	23	P	19	52	24.7			Epicenter
		S		53	5.7			36.2 N
		MN		53	35.7	± 7	2.2	139.9 E
		ME		54	2.7	± 5	3.0	
		MZ		54	12.8	± 3	2.1	
		F	20	0	-			
31	26	eP	11	49	8.4			
		MN		50	36.8	± 8	4.1	Epicenter
		ME		50	27.1	± 10	3.9	37.2 N
		MZ		50	42.8	± 4	1.9	141.2 E
		F	11	55	-			
34	Mar. 1	P	7	59	32.6			Epicenter
		S	8	0	5.4			35.7 N
		MN		0	31.4	±27	0.8	138.7 E
		ME		0	38.7	+22	1.5	
		MZ		0	37.4	+23	1.8	
		F	8	07	-			
38	9	P	10	49	1.7			
		S		50	31.3			Epicenter
		MN		51	8.6	+227	3.7	28.0 N
		ME		51	4.3	+174	3.9	140.0 E
		MZ		51	30.0	- 80	3.2	Depth 520Km
		F	11	32	-			
39	11	P	11	28	1.8			Epicenter
		S		29	45.2			41.1 N
		MN		30	58.6	+26	4.3	142.2 E
		ME		30	56.5	+19	2.9	
		MZ		30	37.2	-15	3.1	
		F	11	43	-			

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o. 4

No.	Date	Phase	Time (G. M. T.) h. m. s.	Amplitude (μ)	Period (s)	Remarks
40	Mar., 12	P	1 19 29.1			Epicenter
		S	20 2.0			35.9 N
		MN	20 7.2	+90	3.3	135.6 E
		ME	21 22.9	+66	2.9	Depth 350Km
		MZ	20 17.5	+21	3.2	
		F	1 28 -			
41	12	eP	1 46 44.5			
		eS	47 29.7			
		MN	48 19.4	+13	3.5	
		ME	48 24.5	+12	2.5	
		MZ	47 48.4	+ 5	2.7	
		F	1 58 -			
50	29	P	15 53 52.0			
		S	58 13.3			
		MN	58 30.6	-82	5.5	
		ME	58 40.6	-54	5.7	
		MZ	59 12.5	+ 9	3.3	
		F	16 36 -			

* *

August 10th, 2600 (1940).

International Seismological Centre From the ISC collection scanned by SISMOS

Double
25 NOV. 1940.

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SEISMOLOGICAL BULLETIN

of the Ōsaka Meteorological Observatory, Nippon (Japan)

[φ=34° 39′ N. λ=135° 32′ E.
Elevation=5.2m]

From April 00 to June 26 (1940)

Date from which Constants Apply	Instrument.		T_0	$\frac{r}{T_0^2}$	ε	V
Apr. 18, 2600 (1940)	Wiechert's	N	5.6	0.007	5.2	77
		E	5.5	0.010	5.2	79
		Z	5.0	0.014	3.6	74
Jun. 6, 2600 (1940)	"	N	5.7	0.012	5.0	80
		E	5.6	0.012	5.6	78
		Z	5.2	0.013	3.7	72

No. 5

No.	Date	Phase	Time (G. M. T.) h.	m.	s.	Amplitude (μ)	Period (s)	Remarks
53	Apr. 1	P	11	25	50.4			New Guinea.
		S		32	5.8			
		MN		32	31.9	-53	4.5	
		ME		32	32.8	-55	5.4	
		MZ		32	12.4	-12	3.9	
		F	11	50	-			
55	6	P	13	51	15.7			
		S		55	27.1			
		MN	14	1	36.1	± 17	4.6	
		ME		1	40.2	± 11	5.7	
		MZ		0	41.7	± 4	3.7	
		F	14	12	-			
58	12	P	5	56	9.1			141.8°E 38.4°N
		S		57	27.4			
		MN		58	47.7	+10	2.3	
		ME		58	22.9	+ 9	3.6	
		MZ		57	50.6	- 6	2.1	
		F	6	20	-			
59	16	P	6	14	11.3			Aleutian Is.
		S		19	29.5			
		MN		23	46.1	±388	17.2	
		ME		25	28.9	-131	13.2	
		MZ		23	52.2	-117	14.5	
		F	-	-	-			Overlapped by next Shock.

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SEISMOLOGICAL BULLETIN

No. 6

No.	Date	Phase	Time (G. M. T.) h.	m.	s.	Amplitude (μ)	Period (s)	Remarks
60	Apr. 16	PP	6	49	28.7			Aleutian Is.
		S		54	52.5			
		MN		59	9.9	+156	13.2	
		ME	7	0	7.6	±156	17.5	
		MZ	6	59	12.0	-131	14.2	
		F	7	12	-			
67	20	P	20	18	49.4			Neighbourhood of Kyoto.
		S		19	25.1			
		MN		20	6.8	+55	4.6	Deep forcas.
		ME		19	25.4	+77	3.4	depth: 350 km
		MZ		20	6.0	-27	2.9	
		F	20	31	-			
73	May 1	P	18	27	21.6			140.4°E, 35.6°N
		S		28	16.5			
		MN		29	6.3	-10	2.9	
		ME		29	12.3	+ 8	1.9	
		MZ		28	42.5	+ 6	2.4	
		F	18	35	-			
78	11	eP	14	0	16.0			Aleutian Is.
		S		5	40.8			
		MN		10	35.2	±21	10.7	
		ME		11	43.5	+23	15.1	
		MZ		10	45.5	±17	11.7	
		F	14	19	-			
81	16	P	12	3	4.1			Mineyama, Kyoto. 135.1° E, 35.6°N
		S		3	18.3			
		MN		4	13.2	+60	3.3	
		ME		4	8.1	-48	3.5	
		MZ		3	56.6	+30	3.4	
		F	12	12	-			
82	16	P	14	29	40.1			Mineyama, Kyoto.
		S		29	53.6			
		MN		30	35.8	+55	4.0	
		ME		30	44.9	-47	3.8	
		MZ		30	33.6	+26	3.4	
		F	14	42	-			
83	16	P	21	19	31.7			Mineyama, Kyoto.
		S		19	46.0			
		MN		20	41.2	+23	3.3	
		ME		20	35.5	-19	3.7	
		MZ		20	25.8	+12	2.9	
		F	21	29	-			
84	16	P	22	41	40.8			Mineyama, Kyoto.
		S		41	55.5			
		MN		42	52.9	+12	3.5	
		ME		42	45.0	+12	3.5	
		MZ		42	34.4	+ 7	2.8	
		F	22	52	-			

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SEISMOLOGICAL BULLETIN

No. 7

No.	Date	Phase	Time (G. M. T.) h.	m.	s.	Amplitude (μ)	Period (s)	Remarks
87	May 19	P	15	21	40.7			Sea of Okhotsk.
		S		24	47.0			151.0°N, 51.0°E
		MN		26	56.3	-27	4.8	Focal depth:
		MZ		26	50.8	-10	2.9	600 km.
		F	15	42	-			
89	24	P′	16	53	17.7			Neighbourhood of
		PPP		59	28.9			Lima, Peru.
		SoPcS	17	0	36.0			
		iS′		7	2.7			
		MN		44	53.4	±190	21.1	
		ME		49	10.3	±210	19.8	
		MZ		47	54.4	±338	21.0	
		F	18	53	-			
91	28	iP	9	47	53.6			Distant earthquake.
		S		53	41.9			New Guinea.
		MN	10	0	47.0	±100	21.2	
		ME		4	52.4	± 30	13.1	
		MZ		1	31.0	± 92	18.7	
		F	10	22	-			
92	28	iP	14	23	44.5			Nakagun, Tokusima.
		S		23	59.7			134.5°N, 33.8°E
		MN		24	37.6	±813	-2.5	Seismic intensity:
		MZ		24	26.8	±424	2.8	(I) *
		F	1[illegible]	47	-			
95	31	P	14	57	29.3			SE of Nozimasaki,
		S		58	26.0			Tiba.
		MN		59	40.0	± 16	2.8	140.6°E, 34.4°N
		ME	15	0	27.1	± 16	3.9	
		MZ		0	30.4	± 6	3.2	
		F	15	15	-			
101	Jun. 5	P	14	52	44.5			Bashi Str.
		PP		53	11.0			
		S		56	17.0			
		SS		57	9.4			
		F	15	7	-			
105	12	P	14	1	17.2			ENE of Katuura,
		S		2	19.7			Tiba,
		MN		2	54.5	±291	3.4	141.0°E, 35.3°N
		ME		3	4.4	±330	5.0	
		MZ		3	19.7	±169	2.0	
		F	to be continued to next.					

* Showing that shocks were felt by person.
The intensity is given by 6 classes, from I to VI .

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SEISMOLOGICAL BULLETIN

No. 8

No.	Date	Phase	Time (G. M. T.) h.	m.	s.	Amplitude (μ)	Period (s)	Remarks
106	Jun. 12	P	1[illegible]	12	55.6			E of Tibaken.
		S		13	50.2			141.0°E, 35.2°N
		MN		14	28.4	± 258	3.8	
		ME		14	39.4	± 274	4.5	
		MZ		14	49.0	± 83	2.5	
		F	15	0	-			
108	12	P	18	38	31.8			SE of Hatizyo I.
		S		39	50.[illegible]			143.2°E, 32.4°N
		MN		[illegible]	7.3	± 22	3.1	Deep focus
		ME		40	5.6	± 15	4.0	depth: 100 km
		MZ		40	14.1	± 7	2.2	
		F	19	3	-			
110	13	P	16	36	55.3			
		S		37	48.7			
		MN		38	31.2	± 17	2.0	
		ME		38	25.5	± 17	3.3	
		MZ		38	35.4	± 12	2.2	
		F	16	48	-			
111	15	P	9	10	28.1			
		S		11	24.4			
		MN		12	29.5	± 43	3.7	
		ME		12	16.1	± 40	3.7	
		MZ		12	6.8	± 17	3.0	
		F	9	27	-			
112	18	P	13	57	42.9			Mindanao I.
		S	14	2	13.7			
		MN		3	14.5	± 19	3.2	
		ME		2	39.2	± 23	3.7	
		MZ		3	27.2	± 11	2.9	
		F	14	15	-			
113	19	P	17	27	20.5			SE of Kinkasan
		S		28	42.3			141.7°E, 38.1°N
		MN		30	11.3	± 13	3.5	
		ME		30	46.8	± 15	3.7	
		MZ		29	43.0	± 7	2.9	
		F	17	41	-			
117	20	P	11	13	50.6			Arita R. Wakayama
		S		13	59.8			
		MN		14	50.5	± 6	3.3	
		ME		14	32.0	± 11	3.7	
		MZ		14	50.0	± 2	2.6	
		F	11	21	-			

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SEISMOLOGICAL BULLETIN

No. 9

No.	Date	Phase	Time (G. M. T.) h.	m.	s.	Amplitude (μ)	Period (s)	Remarks
119	Jun 22	P	11	[illegible]	32.9			
		PP		44	27.2			
		S		47	47.4			
		MN		49	32.5	±67	5.4	
		ME		49	32.0	±53	5.0	
		MZ_1		49	9.7	±16	3.9	
		L3		49	38.4			
		L		52	24.2			
		MZ_2		58	26.1	±28	15.2	
		F	12	14	-			
122	27	P	6	53	58.9			NW of Titi I.
		S		55	2.0			138.8°E, 30.6°N
		MN		55	26.5	± 28	3.3	Deep forcas
		ME		56	[illegible]	± 19	4.9	depth : 400 km
		MZ		55	45.8	± 11	2.8	
		F	7	7	-			
123	30	P	9	12	21.5			Neighbourhood of
		S		12	31.3			Yuasa, Wakayama
		MN		12	52.3	± 192	2.9	135.1 E, 34.0 N
		ME		13	7.3	± 136	2.6	
		MZ		13	1.8	± 126	2.3	
		F	9	29	-			

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We wish acknowledge with thanks the receipt of the following seismological publication and bulletins.

STATIONS	BULLETINS
Apia	April to June, 1940
Batavia	October to December, 1939
Brisbane	May to July, 1940
Hamburg	January to June, 1940
Helgoland	October, 1939 to June, 1940
Jesuit Seismo. Association (Preliminaly Bulletin)	No. 2, 3, 6, 7, 11, 12. 13, 14, 15, 16, 17, 18, 19, 21, 25, 29.
Kew	May, 1940
Manila	June & July, 1940
Ottawa	May & June, 1940
Pasadena (preliminaly Report)....	May & June, 1940
Riverview	April to June, 1940
Strasbourg	April, 1940
〃 (International)	April & May, 1940
〃 (University)	April & May, 1940
Parc St. Maur, Paris	April, 1940
Wellington	June & August, 1940

* *

Osaka Meteorological Observatory
OSAKA, NIPPON (JAPAN) .

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of the Ōsaka Meteorological Observatory, Nippon (Japan)

[φ=34° 39′ N. λ=135° 32′ E.
Elevation=5.2m]

International Seismological Centre

From July to Sept. 26 00 (19 40)

Date from which Constants Apply	Instrument.		T_0	$\frac{r}{T_0^2}$	ε	V
Jun. 6th, 2600 (1940)	Wiechert's	: N	5.7	0.012	5.0	80
		: E	5.6	0.012	5.6	78
		: Z	5.2	0.013	3.7	72
Jul. 3rd, 2600 (1940)	"	: N	5.6	0.012	5.0	82
		: E	5.6	0.015	5.3	81
		: Z	5.3	0.016	3.7	68
Aug. 6th, 2600 (1940)	"	: N	5.6	0.009	5.4	88
		: E	5.5	0.016	5.9	82
		: Z	5.3	0.016	3.7	68

Date	Phase	Time (G. M. T.) h. m. s.	Amplitude (μ)	Period (s)	Remarks
ul. 2	P	1 37 53.2			NE off Hatidyozima
	S	38 59.2			
	MN	40 41.4	-47	5.1	
	ME	40 46.8	-30	5.1	
	NZ	40 37.7	±10	3.3	
	F	2 5 -			
4	P	9 3 5.9			Remarkable earthquake Deep, Focal depth 200 km. 144.5°E, 44.3°N
	S	5 12.8			
	MN	6 58.6	+10	4.0	
	ME	5 56.4	-11	2.4	
	MZ	6 25.4	± 6	2.0	
	F	9 20 -			
5	P	16 47 17.2			Wakayama
	S	47 25.6			
	MN	47 45.6	-131	2.0	
	ME	47 56.6	-127	1.0	
	MZ	47 54.8	+ 10	1.7	
	F	16 54 -			
5	P	21 1 23.0			E off Kinkazan 142.7°E, 38.0°N
	S	2 39.7			
	MN	3 58.1	+20	4.0	
	ME	3 33.9	-16	4.4	
	MZ	3 49.8	± 6	3.3	
	F	21 13 -			

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SEISMOLOGICAL BULLETIN

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Date	Phase	Time (G. M. T.) h. m. s.	Amplitude (μ)	Period (s)	Remarks
Jul. 8	P	15 18 46.0			
	S	20 19.7			
	MN	21 42.5			Epicenter,
	ME	21 24.1	+ 19		140.3°E, 28.0°N
	MZ	20 30.9	- 15	4.6	WNW off Titizima
	F	15 32 -	± 6	4.0	Deep earthquake
10	P	5 52 20.2		3.7	depth: 400 km
	S	54 20.3			
	MN	56 20.7			Remarkable earthquake
	ME	55 24.7	-204		Epicenter,
	MZ	55 1.2	-247	4.0	130.6°E, 44.8°N
	F	to be continued to next earthquake.	-136	4.0	Deep earthquake
10	oP	6 1 47.0		2.2	depth: 560 km
	S	3 48.7			
	MN	4 6.9			Epicenter,
	ME	3 54.4	- 54		ditto
	MZ	4 34.5	- 72	4.3	
	F	6 20 -	- 24	3.8	
				3.0	
13	oP	17 7 19.8			Distant earthquake
	PP	8 48.5			
	PPP	11 32.4			
	MN	12 43.6	- 46	5.1	
	ME	11 24.2	+ 33	4.6	
	MZ	11 5.6	- 13	2.0	
	ScPcS	14 14.4			
	ScPcPcS	15 17.5			
	F	17 25 -			
14	P	15 32 44.8			Moderate earthquake
	S	33 34.7			Epicenter,
	MN	34 22.5	+208	3.1	140.0°E, 36.1°N
	ME	34 9.1	+214	3.6	Neighbourhood of
	MZ	34 34.9	-150	2.6	Mizukaido, Ibaragiken
	F	15 50 -			
15	P	8 36 37.0			Neighbourhood of Hatidyozima
	S	37 29.8	± 15	4.4	
	MN	41 56.9	± 17	4.4	
	ME	40 2.4	± 2	3.8	
	MZ	38 46.0			
	F	8 51 -			Distant earthquake
21	P	15 45 20.4			
	S	51 9.2	± 16	4.3	
	MN	47 15.8	± 21	4.1	
	ME	47 50.1	± 5	3.3	
	MZ	47 15.0			
	F	16 15 -			

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Date	Phase	Time (G. M. T.) h.	m.	s.	Amplitude (μ)	Period (s)	Remarks
Jul. 26	eP	15	5	38.0			Deep earthquake
	S		7	11.2			W off Titizima
	MN		7	36.9	± 20	4.3	
	ME		7	46.4	± 10	4.1	
	MZ	15	7	25.5	- 6	3.5	
	F		12	-			
Aug. 1	P	15	10	51.1	N:+1,E:+3,Z:-13		Remarkable earthquake
	S		12	49.8			Epicenter
	MN		13	0.0	+535	5.1	139.1°E, 44.3°N
	ME		13	25.8	+476	4.7	
	MZ		16	37.6	+1639	10.2	
	F	17	23	-			
3	P	16	36	17.5			Epicenter
	S		37	0.8			132.6°E, 33.6°N
	MN		37	18.2	- 22	2.4	
	ME		37	28.3	+ 17	2.2	
	MZ		37	41.9	+ 13	1.9	
	F	16	46	-			
4	P	9	17	20.1			Epicenter
	S		18	28.5			141.1°E, 37.7°N
	MN		19	34.2	- 10	2.9	
	ME		19	7.2	- 10	2.3	
	MZ		19	29.8	± 5	2.4	
	F	9	25	-			
5	P	9	58	5.0			
	S	10	0	30.7			
	MN		4	10.4	+ 25	4.5	
	ME		4	54.3	+ 27	5.2	
	MZ		2	52.1	- 12	2.8	
	F	10	18	-			
7	P	18	48	17.1			Neighbourhood of Sekigahara, Gihuken
	S		48	31.2			Seismic intensity, (I)
	MN		48	33.8	- 30	0.2	
	ME		48	34.1	+ 21	0.2	
	MZ		48	37.4	- 11	0.2	
	F	18	52	-			
13	P	15	37	27.0			Remarkable earthquake Epicenter, W off Okinosima
	P		37	37.3			132.1°E, 36.1°N
	S		38	6.8		3.1	
	MN		39	2.8	+1563	2.9	
	ME		39	25.5	+ 907	2.9	
	MZ		38	39.4	± 519		
	F	16	20	-			
13	P	16	43	9.5			Epicenter, W off Okinosima
	S		43	50.6		3.4	132.1°E, 36.1°N
	MN		44	54.9	+ 23	2.1	
	ME		44	31.2	- 22	2.0	
	MZ		45	12.6	- 20		
	F	16	55	-			

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Date	Phase	Time (G. M. T.) h. m. s.	Amplitude (μ)	Period (s)	Remarks
Aug. 15	P	14 54 52.8			Epicenter, Neighbourhood of Simozuma, Ibaragiken 139.9°E, 36.2°N
	S	55 46.1			
	MN	56 12.2	± 15	2.3	
	ME	56 14.1	- 12	1.9	
	MZ	56 19.0	- 7	1.6	
	F	15 2 -			
16	P	5 15 45.6			Epicenter, W off Okinosima
	S	16 29.0			
	MN	17 6.3	- 18	3.6	
	ME	17 35.6	+ 17	3.3	
	MZ	17 3.4	- 14	1.9	
	F	5 24 -			
20	P	5 3 3.0			Epicenter, NE off Hatidyozima
	S	4 2.5			
	MN	5 58.2	- 12	2.5	
	ME	5 43.8	+ 12	4.6	
	MZ	4 58.8	+ 8	2.1	
	F	5 16 -			
22	oP	3 35 27.6			Epicenter, Alaska Pen.
	iP	35 37.5			
	pP	36 3.6			
	PcP	37 6.3			
	PP	37 19.6			
	S	42 17.8			
	MN	42 47.0	± 100	5.3	
	ME	42 26.5	± 109	6.7	
	MZ	42 34.0	± 37	5.6	
	F	5 6 -			
25	oP	10 32 33.1			Epicenter, Neighbourhood of Usikunuma, Ibaragiken 140.1°E, 36.0°N Moderate earthquake
	S	33 23.0			
	MN	34 1.4	- 62	4.5	
	ME	34 23.3	- 63	2.8	
	MZ	34 32.6	± 25	2.2	
	F	10 51 -			
Sept. 17	P	4 31 51.1			Epicenter, Neighbourhood of Tukubasan, Ibaragiken 140.1°E, 36.3°N
	S	32 43.3			
	MN	33 19.5	- 21	1.9	
	ME	33 24.1	- 17	2.1	
	MZ	33 27.2	- 13	1.9	
	F	4 41 -			
19	P	18 30 40.7			New Caledonia
	PP	33 18.0			
	S	39 13.9	± 25	7.5	
	MN	40 46.5	± 13	5.3	
	ME	40 56.0			
	F	19 15 -			

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Date	Phase	Time (G. M. T.) h.	m.	s.	Amplitude (μ)	Period (s)	Remarks
Sep. 21	eP	12	0	17.1			
	iP		0	18.7			Epicenter,
	S		0	36.5			Neighbourhood of
	MN		1	18.0	+ 29	1.4	Itinomiya, Aitikon
	NE		1	5.9	± 27	1.4	136.9°E, 35.3°N
	MZ		1	21.3	- 17	1.2	
	F	12	23	-			
22	P	22	57	10.4			
	i		58	52.0			Distant earthquake
	S		59	37.2			
	MN	23	0	49.6	± 65	5.1	
	ME		1	38.2	± 56	4.9	
	MZ		0	10.2	± 14	5.3	
	i		4	23.5			
	F	23	29	-			
24	P	0	24	7.5			Neighbourhood of
	S		24	15.2			Wakayama
	MN		24	50.0	+ 19	3.2	
	ME		24	54.5	± 19	4.0	
	MZ		25	22.1	± 5	1.7	
	F	0	34	-			
27	iP	21	31	46.9	N: -4, E: +0, Z: -6		Deep earthquake Focal depth, 500 km
	S		33	12.2	N: +27, E: -21, Z: -12		Epicenter, 138.5°E, 28.5°N
	MN		33	39.7	± 69	3.2	NW off Titizima
	ME		33	39.3	± 46	3.1	
	MZ		33	54.3	± 29	2.4	
	F	21	47	-			

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