

THE  
SEISMOLOGICAL  
BULLETIN

OF

THE HUKUOKA METEOROLOGICAL OBSERVATORY

OF

JAPAN

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March 1933.



## Constants

Position of Observatory :

Longitude : .....130° 25' .4 E  
 Latitude : .....33° 34' .8 N  
 Height from mean sea level : .....4.3 m  
 Underground : ..... Alluvium.

Seismographs :

Apparatus	Component	$T_0$	$\frac{r}{T_0^2}$	V
Omori's Horizontal Seismograph 15kg	E—W	22	0.013	20
Omori's Tromometer 47kg	N—S	15	0.080	120

## Symbols and Notations

1. Phases of the seismogram.

P = First preliminary tremors (longitudinal).

$\bar{P}$  = Individual, or upper first preliminary tremors.

PR<sub>n</sub> = Longitudinal waves n times reflected at the earth's surface.

S = Second preliminary tremors (transverse).

$\bar{S}$  = Individual, or upper second preliminary tremors.

SR<sub>n</sub> = Transverse waves n times reflected at the earth's surface.

PS = Waves changed from longitudinal to transverse oscillation,  
or vice versa, through reflection at the earth's surface.

L = Long waves at the beginning of the surface phase.

M = Maximum Amplitude in principal phase.

C = Waves of the tail or end portion.

F = End of discernible movements.

2. Nature of the motion.

i = Sudden beginning of the motion.

e = Gradual beginning of the motion.

A = Amplitude of the earth's motion in microns.

A<sub>E</sub> = E—W component of A.

A<sub>N</sub> = N—S component of A.

Period = Time of one complete oscillation.

3. Distance of epicenter.

$\Delta$  = Distance of epicenter; for the near earthquakes calculated by the Omori's formula  
 $\Delta = 7.42t$ , and for the distant earthquakes by the Wiechert's, Zoeppritz's and Zeissig's  
time distance curve.

4. Time used. Greenwich mean civil time is adopted for all determinations.



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No.	Date	Phase	Time			Period	Amplitude		△	Epicenter and Remarks	
			G.	M.	T.		A <sub>E</sub>	A <sub>N</sub>			
			h	m	s	s	μ	μ	km.		
1	Jan.	2	P	21	54	00.8				242	In the Hiuga-nada.
			S	21	54	33.4					
			M <sub>E</sub>	21	54	42.9	2.3	+34			
			M <sub>N</sub>	21	54	43.5	1.9		-16		
			C <sub>N</sub>	21	54	59.4					
			F	21	59	—					
2	Jan.	3	P	3	11	49.5				226	Ditto
			S	3	12	20.0					
			M <sub>N</sub>	3	12	26.0	1.2		+4		
			F	3	13	50.0					
3	Jan.	9	iP	10	29	32.1		+7	-2	4450	E. off New Guinea, Pacific Ocean. Deep earthquake.
			iS	10	35	44.4	6.6		-23		
			F	11	00	—					
4	Jan.	21	eP?	14	43	22.0				303	Near Ōsumi channel, Sern part of Kyûsyû. Felt at places in the Sern part of Kyûsyû. P phase not distinct.
			S	14	44	02.8					
			M <sub>E</sub>	14	44	04.0	2.7	+20			
			M <sub>N</sub>	14	44	06.1	2.3		+10		
			F	14	46	40.0					
5	Jan.	27	P	12	16	29.5		-2	+1	217	In the Hiuga-nada. (131.°9E 32°.1N) Felt in the greater part of Kyûsyû except NWern part.
			S	12	16	58.8					
			M <sub>E</sub>	12	17	08.3	1.6	-50			
			M <sub>N</sub>	12	17	03.6	1.2		+38		
			F	12	22	30.0					
6	Jan.	27	eP	18	42	14.7				164	Near the mouth of River Gokase, Miyazaki prefecture.
			eS	18	42	36.8					
			M <sub>N</sub>	18	42	41.6	0.5		-3		
			F	18	43	50.0					
7	Jan.	29	e	13	49	40.—				—	In the South Sea. All phases could not be distinguished.
			F	14	45	—					



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No.	Date	Phase	Time			Period	Amplitude		$\Delta$	Epicenter and Remarks
			G.	M.	T.		A <sub>E</sub>	A <sub>N</sub>		
			h	m	s	s	$\mu$	$\mu$	km.	
8	Jan. 31	eP	5	29	58.6	1.4			216	Near the mouth of River Ôyodo, Miyazaki prefecture.
		S	5	30	27.7					
		M <sub>N</sub>	5	30	36.9					
		F	5	32	30.0					
9	Feb. 3	P	7	36	44.8	6.9	+4		771	NW. off Bonin Is. (140.°0E 29.°0N) Rather strong shock was felt at Titizima.
		L	7	38	28.7					
		M <sub>E</sub>	7	38	38.6					
		M <sub>N</sub>	7	38	36.1					
		F	7	49	—					
10	Feb. 14	P	21	33	04.9	1.7	-14		257	NE. off Tanegasima, Kagosima prefecture. (131.°E 30.°9N) Felt at places in the Sern part of Kyûsyû.
		S	21	33	39.5					
		M <sub>E</sub>	21	33	41.1					
		M <sub>N</sub>	21	33	40.5					
		F	21	36	—					
11	Feb. 15	P	1	07	18.7				200	Central part of Hiuga-nada. (131.°9E 32.°2N)
		S	1	07	45.6					
		F	1	09	20.0					
12	Feb. 21	eP	15	56	14.6				306	In the Ôsumi channel, Sern part of Kyûsyû.
		S	15	56	55.8					
		F	16	00	—					
13	Feb. 25	eP	6	10	40.0	0.3			174	In the Iyo-nada, Inland sea.
		S	6	11	03.5					
		M <sub>N</sub>	6	11	10.3					
		F	6	12	40.0					
14	Feb. 27 28	P	23	59	52.0	0.5			145	Upper course of River Ôta-gawa, Hirosima prefecture.
		S	0	00	11.5					
		M <sub>N</sub>	0	00	13.6					
		F	0	01	00.0					
15	Feb. 28	P	13	58	33.6				18	Near Mt. Raizan,



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			G.	M.	T.		A <sub>E</sub>	A <sub>N</sub>		
			h	m	s	s	$\mu$	$\mu$	km.	
	Feb. 28	S	13	58	36.0					
		M <sub>E</sub>	13	58	36.2		+18			
		M <sub>N</sub>	13	58	36.2	0.5		-18		Itosima province, Hukuoka prefecture. Felt at Imadu and Maebaru slightly.
		F	13	59	15.0					
16	Mar. 14	P	13	54	13.6				507	
		S	13	55	21.9					
		M <sub>N</sub>	13	55	22.6	1.7		+9		W. off Kunsan, Zenra-hokudô, Korea. (124.°5E 35.°7N)
		F	13	58	35.0					
17	Mar. 14	eP	14	03	41.9				534	
		eS	14	04	53.8					
		M <sub>N</sub>	14	04	57.5	1.2		-4		After shock of No. 16.
		F	14	07	00.0					
18	Mar. 17	P	0	51	21.0		+3	-3	174	
		S	0	51	44.4					Sern part of Bungo channel. (132.°2E 32.°5N)
		M <sub>E</sub>	0	52	05.0	-	+100			Felt in Eern part of Kyûsyû and Wern part of Sikoku.
		M <sub>N</sub>	0	52	02.9	--		+72		
		C	0	52	57.6					
		F	0	58	20.0					
19	Mar. 17	P	5	01	43.8			-2	29	
		S	5	01	47.7					Near. Mt. Raizan, Itosima province, Hukuoka prefecture.
		M <sub>E</sub>	5	01	49.6	-	+35			Slight shock was felt at places in the NWern part of Hukuoka prefecture.
		M <sub>N</sub>	5	01	48.2	0.5		-45		
		F	5	03	25.0					
20	Mar. 19	eP	11	04	44.5				2620	
		eS	11	08	58.9					Neighbouring sea of Mariana Is., Micronesia, Pacific Ocean.
		eL	11	10	04.0					All phases not distinct.
		M <sub>E</sub>	11	13	05.2	15.0	+12			
		F	11	43	-					
21	Mar. 26	eP	0	08	05.2				6160	
		S	0	15	50.3					Neighbourhood of Aleutian Is.



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			(J. M. T.)				$A_E$	$A_N$		
			h	m	s	s	$\mu$	$\mu$	km.	
	Mar. 26	eL	0	25	32.4					
		M <sub>E</sub>	0	29	04.5	22.8	+28			
		M <sub>N</sub>	0	29	09.2	22.4		-11		
		F	0	55	—					
22	Mar. 26	P	9	59	40.2				4030	Neighbourhood of Philippine Is.
		S	10	05	29.0					
		eL?	10	10	58.6					
		M <sub>E</sub>	10	13	12.1	22.7	$\pm 13$			
		F	10	44	—					
23	Apr. 4	P	19	18	31.0		+5.0	-0.4	608	S. off Hatizyō I. (139.°5E 30.°6N) Felt in the greater part of Kwantō district, SEern part of Tōhoku district and Ogasawara Is.
		S	19	19	52.9					
		M <sub>E</sub>	19	20	09.9	8.9	-460			
		M <sub>N</sub>	19	20	09.9	9.4		+355		
		C <sub>N</sub>	19	21	45.2					
		F	19	35	—					
24	Apr. 6	eP	9	14	27.9				2420	Middle Yangtse valley.
		eS?	9	18	26.3					
		M <sub>E</sub>	9	19	13.2	2.8	+14			
		M <sub>N</sub>	9	18	40.8	3.5		-25		
		F	9	31	30.0					
25	Apr. 28	P	3	44	31.3				499	In the Kumano-nada. (136.°9E 34.°0N) Deep earthquake. Felt in Eern part of Kwantō district.
		S	3	45	38.6					
		F	3	49	30.0					
26	May 2	P	23	29	55.3		-2.5	+3.3	243	In the Ariake bay, Kagosima prefecture. (131.°1E 31.°4N) Felt at south of the central part in Kyūsyū.
		S	23	30	28.0					
		M <sub>E</sub>	23	30	38.9	2.5	-155			
		M <sub>N</sub>	23	30	39.2	1.9		+155		
		F	23	41	—					
27	May 5	P	4	12	16.4		-10	+3	436	Nern part of the Osaka bay. (135.°3E 34.°6N)
		S	4	13	15.1					



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			G.	M.	T.		A <sub>E</sub>	A <sub>N</sub>		
			h	m	s	s	μ	μ	km.	
	May 5	M <sub>E</sub>	4	13	21.0	6.3	-118			Deep earthquake.
		M <sub>N</sub>	4	13	18.0	—		+22		
		F	4	23	—					
28	May 14	P	13	17	40.9		to E	to N	3520	In the South Sea.
		iS	13	22	59.3					
		M <sub>E</sub>	13	26	38.8	23.0	-1650			
		F	15	14	—					
29	May 23	P	19	15	52.3				18	Near. Mt. Raizan, Itosima province, Hukuoka prefecture.
		S	19	15	54.8					
		M <sub>N</sub>	19	15	54.8	< 0.5		-4		
		F	19	16	32.0					
30	May 26	P	16	20	20.9		+3		7520	S. off Hawaii, Pacific Ocean. (156°W 16°N)
		S	16	29	16.9					
		eL	16	40.9						
		F	17	05	—					
31	May 28	P	2	22	35.5		to E	-2.5	445	NE. off Amami-ōsima I, Kagosima prefecture. (131.°3E 29.°2N)
		S	2	23	35.5					
		M <sub>E</sub>	2	25	—	> 17.0	-220			
		M <sub>N</sub>	2	25	08.1	16.0		+50		
		F	2	49	—					
32	June 3	eP	10	52	—				11500	Mexico. Time is doubtful.
		ePR <sub>1</sub>	10	56	—					
		S	11	04.5						
		eSR <sub>1</sub>	11	11	29.8					
		L	11	27	53.7					
		M <sub>E1</sub>	11	46	19.1	19.3	-65			
		M <sub>E2</sub>	11	50	07.3	16.0	+128			
		M <sub>E3</sub>	11	53	16.6	15.3	-128			
		M <sub>E4</sub>	12	00	05.4	17.1	±78			
		M <sub>E5</sub>	12	06	14.5	18.4	-73			
		F	13	05	—					



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			G.	M.	T.		$A_E$	$A_N$		
			h	m	s	s	$\mu$	$\mu$	km.	
33	June 8	iP	6	14	35.8		-5	+3	226	In the Hiuga-nada. (131.°8E 31.°9N) Felt in Sern half of Kyasyū and Wern part of Sikoku.
		S	6	15	06.2					
		ME	6	15	18.3	2.3	+105			
		MN	6	15	25.3	3.0		+100		
		F	6	20	40.0					
34	June 8	iP	10	54	36.4		-2.5	+3.3	211	In the Hiuga-nada. (131.°9E 32.°2N) Felt in Sern half of Kyasyū.
		S	10	55	04.9					
		ME	10	55	17.1	2.2	+58			
		MN	10	55	12.6	3.6		+37		
		F	11	00	30.0					
35	June 14	P	6	03	37.4		-5.0	-1.3	1940	SSE. off Kōsyun, Formosa.
		S	6	06	55.6					
		F	6	17	—					
36	June 18	iP	1	31	55.3		-21	+10	200	In the Hiuga-nada. (132.°1E 32.°6N) Felt over Kyasyū, Wern part of Sikoku and SWern part of Sanyō.
		S	1	32	22.3					
		ME	1	32	31.8	1.8	-195			
		MN	1	32	29.3	4.3		+238		
		F	1	42	—					
37	June 18	eP	10	25	12.3				11430	Neighbourhood of New Zealand, Pacific Ocean.
		eS	10	37	10.5					
		ME1	11	19	34.1	18.6	-25			
		ME2	11	28	21.8	16.6	+30			
		ME3	11	41	34.6	15.9	+35			
		F	12	37	—					
38	June 22	P	0	38	11.5		-5	-1	1020	Off the cape of Inubō, Tiba prefecture. (141.°1E 35.°9N) Felt in central Japan.
		S	0	40	01.8					
		L	0	40	38.4					
		ME	0	41	11.9	3.3	+18			
		MN	0	41	04.5	3.1		+50		
		F	0	50	—					



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			G.	M.	T.		A <sub>E</sub>	A <sub>N</sub>		
			h	m	s	s	$\mu$	$\mu$	km.	
39	July 3	P	18	54	38.6				119	In the Iyo-nada, Inland sea.
		S	18	54	54.7					
		F	18	55	40.0					
40	July 10	eP	7	48	20.7				—	E. off Miyako, Iwate prefecture. S phase could not be distinguished.
		M <sub>E</sub>	7	53	01.6	16.0	+13			
		F	8	03	—					
41	July 21	P	6	31	54.9				65	In the Kanmon strait. Felt in NEern part of Hukuoka prefecture.
		S	6	32	03.7					
		M <sub>N</sub>	6	32	03.8	0.4		$\pm 18$		
		F	6	32	55.0					
42	July 25	iP	8	25	58.2		+48	+13	453	In the Wakasa bay, (135.°6E 35.°6N) Felt at the Pacific coasts of Kwantô, Tôhoku and Hokkaidô.
		iS	8	26	59.2					
		M <sub>E</sub>	8	27	03.6	5.2	+300			
		M <sub>N</sub>	3	27	00.6	5.0		+73		
		F	8	38	—					
43	Aug. 14	P	4	45	38.5				3235	In SEern part of Tibet. (95°E 30°N)
		S	4	50	38.0					
		eL	4	53	31.7					
		M <sub>E</sub>	4	59	58.1	12.7	+50			
		M <sub>N</sub>	4	57	37.8	10.9		+18		
		F	5	25	—					
44	Aug. 21	P	4	18	26.4				1335	E. off Karenkô, Formosa. (122.°4E 23.°9N)
		S	4	20	47.7					
		M <sub>E</sub>	4	23	02.4	18.0	$\pm 58$			
		F	4	51	—					
45	Aug. 22	eP	11	14	48.6				689	S. off Shantung.
		S	11	16	21.4					
		M <sub>E1</sub>	11	17	05.5	—	—165			
		M <sub>E2</sub>	11	18	00.3	9.7	+118			
		M <sub>N</sub>	11	16	53.8	6.0		+175		



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			G.	M.	T.		A <sub>E</sub>	A <sub>N</sub>		
			h	m	s	s	$\mu$	$\mu$	km.	
	Aug. 22	F	11	37	—					
46	Aug. 23	P	15	04	54.5				215	E. off the mouth of River Gokase, Miyazaki prefecture.
		S	15	05	23.5					
		M <sub>N</sub>	15	05	28.7	1.5	+3			
		F	15	06	35.0					
47	Aug. 24	P	13	18	32.8				126	Upper course of River Kikuti, Kumamoto prefecture.
		S	13	18	49.8					
		F	13	20	20.0					
48	Aug. 24	iP	13	51	12.9		-1.5	+3.3	38	Near the mouth of River Tikugo, boundary between Hukuoka and Saga prefecture. Felt in SWern part of Hukuoka prefecture.
		iS	13	51	18.0					
		M <sub>E</sub>	13	51	18.4	0.7	-22			
		M <sub>N</sub>	13	51	18.2	0.5	+14			
		F	13	53	30.0					
49	Aug. 26	P	13	53	38.3				230	In the Hiuga-nada. Felt at places in Sern part of Miyazaki prefecture.
		S	13	54	09.3					
		M <sub>N</sub>	13	54	16.7	1.4	+4			
		F	13	55	30.0					
50	Sept. 3	P	12	01	50.7		+5	+1	1540	ESE. off the cape of Siriya, Aomori prefecture. (143.1E 41.0N) Felt in SEern half of Hokkaidô and greater part of Tôhoku district.
		eS	12	04	31.4					
		M <sub>E</sub>	12	06	36.7	17.8	-35			
		F	12	25	—					
51	Sept. 22	P	13	05	37.2				13	Near Hukuoka.
		S	13	05	39.0					
		M <sub>N</sub>	13	05	39.2	0.4	-9			
		F	13	06	35.0					
52	Sept. 23	iP	14	25	03.9				1330	Nern part of Japan sea. (139.0E 44.7N) Deep earthquake. Felt in the greater part of
		iS	14	27	24.4					
		M <sub>E</sub>	14	27	35.0	14.6	-315			
		M <sub>N</sub>	14	27	31.2	—	+92			



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			G.	M.	T.		A <sub>E</sub>	A <sub>N</sub>		
			h	m	s	s	μ	μ	km.	
	Sept. 23	F	14	55	—					Tohoku and Hokkaido, at places
53	Sept. 26	e	19	43	02.6				—	in the central Japan.
		e	19	52	54.0					Greece.
		e	20	07	44.2					All phases could not be
		M <sub>E</sub>	20	11	01.5	15.7	+20			distinguished.
		F	20	58	—					
54	Sept. 29	iP	3	42	50.3			—2	39	Near the mouth of River Onga,
		iS	3	42	55.5					Hukuoka prefecture. Felt in
		M <sub>E</sub>	3	42	56.5	0.5	—185			Nern part of Hukuoka
		M <sub>N</sub>	3	42	55.9	0.5		—175		prefecture.
		F	3	45	50.0					
55	Sept. 29	eP	6	49	51.0				204	Upper valley of River Hidi-
		eS	6	50	18.5					kawa, Ehime prefecture.
		M <sub>N</sub>	6	50	19.1	0.7		+5		
		F	6	51	20.0					
56	Sept. 29	P	17	51	20.4				2470	S. off Iturup I.
		S	17	55	23.2					
		eL	18	00	11.1					
		M <sub>E</sub>	18	01	38.3	15.8	+12			
		F	18	26	—					
57	Oct. 1	eP	9	37	28.6				100	Near Misumi, Kumamoto
		S	9	37	42.0					prefecture.
		F	9	38	30.0					
58	Oct. 2	P	11	51	09.2				40	Near the mouth of River Onga,
		iS	11	51	14.6					Hukuoka prefecture.
		M <sub>E</sub>	11	51	15.7	0.6	+100			Felt at N. coasts of Hukuoka
		M <sub>N</sub>	11	51	15.6	0.6		+98		prefecture.
		F	11	54	—					
59	Oct. 5	P	3	22	22.6			+1	131	Nern part of Bungo channel.



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No.	Date	Phase	Time			Period	Amplitude		$\Delta$	Epicenter and Remarks
			G.	M.	T.		A <sub>E</sub>	A <sub>N</sub>		
			h	m	s	s	$\mu$	$\mu$	km.	
	Oct. 5	S	3	22	40.3					
		M <sub>N</sub>	3	22	40.8	0.6		+8		
		F	3	24	—					
60	Oct. 6	P	5	02	34.8				623	SW. off Hatizyô I.
		iS	5	03	58.8	3.5		+6		
61	Oct. 9	eP <sub>N</sub>	12	51	53.5				1910	Off Karenkô, Formosa.
		eS <sub>E</sub>	12	55	08.6					(122.°3E 24.°2N)
		F <sub>E</sub>	13	12	—					
62	Oct. 23	iP	21	30	43.7		-6	-5	1775	Ditto
		e	21	32	51.3					
		eS	21	33	46.2					
		eL	21	34	48.2					
		M <sub>E</sub>	21	36	42.1	13.8	+20			
		F	21	52	—					
63	Oct. 25	P	17	05	46.2		-5	-1	1690	ENE. off the cape of
		S	17	08	41.2					Nakasiretoko, Karahuto.
		F	17	15	—					(145.°3E 46.°3N)
64	Nov. 13	iP	4	49	35.7		+10	+7	916	Nern part of Japan sea.
		iS	4	51	39.1		-185	+100		(137°15'E 43°32'N)
		M <sub>E</sub>	4	52	19.2	9.5	-255			Deep earthquake.
		M <sub>N</sub>	4	51	47.0	11.3		-348		Felt at the Pacific coasts of
		F	5	22	—					Hokkaidô, the greater part of
										Tôhoku and Kwantô districts.
65	Nov. 17	P	20	12	18.3			+1	205	In the Ôsumi channel, Sern
		S	20	12	45.9					part of Kyûsyû.
		M <sub>E</sub>	20	12	46.3	1.8	+37			Felt in SEern part of Kyûsyû
		M <sub>N</sub>	20	12	49.9	2.6		+21		and Sern part of Sikoku.
		F	20	16	20.0					
66	Nov. 26	P	4	27	01.0		+3	+3	1490	Near the mouth of River
		S	4	29	36.9					Niikappu, Hokkaido.



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			G.	M.	T.		A <sub>E</sub>	A <sub>N</sub>		
			h	m	s	s	μ	μ	km.	
	Nov. 26	M <sub>N</sub>	4	29	42.3	5.0		+23		(142°16'E 42°21'N) Felt over Hokkaidō and Tōhoku district.
		F	4	51	—					
67	Nov. 29	P	20	15	32.6				201	E. off the mouth of River Mimitu, Miyazaki prefecture.
		S	20	15	59.7					
		M <sub>N</sub>	20	16	07.7	1.8		+12		(131.°1E 32.°6N)
		F	20	18	30.0					Felt at places in Miyazaki and Kōti prefectures.
68	Dec. 4	P	8	17	54.7				3370	Neighbouring sea of Celebes I, South Sea.
		S	8	23	03.7					
		L	8	27	39.0					
		M <sub>E1</sub>	8	29	54.3	20.4	-130			
		M <sub>E2</sub>	8	31	36.7	18.3	+135			
		M <sub>N</sub>	8	29	20.2	24.5		+58		
		F	9	22	—					
69	Dec. 5	eP	0	20	52.4				534	In the Kumano-nada.
		iS	0	22	04.4		+25	-8		(137.°0E 33.°7N) Felt in the greater part of Kwantō district.
		F	0	26	—					
70	Dec. 9	e	4	21	15.0				—	Nern part of Tango province.
		S	4	21	32.8					(134.°56'E 35°35'N)
		M <sub>N</sub>	4	21	34.0	1.4		-5		Felt in Nern part of Kinki district.
		F	4	22	40.0					
71	Dec. 12	e	21	43	20.6				—	N. off Yakusima I, Kagosima prefecture.
		S	21	43	43.0					
		F	21	46	00.0					
72	Dec. 21	eP	5	54	43.2				74	Near the mouth of River Midori-gawa, Kumamoto prefecture.
		S	5	54	53.2					
		M <sub>N</sub>	5	54	54.7	0.3		-4		
		F	5	55	50.0					
73	Dec. 24	eS or L	6	47	20.6				—	Neighbourhood of New Guinea, Melanesia, Pacific Ocean.
		M <sub>E</sub>	6	51	11.2	19.5	-20			



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			G.	M.	T.		$A_E$	$A_N$		
			h	m	s	s	$\mu$	$\mu$	km.	
	Dec. 24	F	7	17	—					
74	Dec. 25	P	2	10	16.1				3060	SWern part of Mongolia. (96°E 44°N)
		S	2	15	03.3					
		L	2	17	04.9					
		M <sub>E</sub>	2	20	33.3	15.8	-1500			
		M <sub>N</sub>	2	20	33.3	15.8		-2700		
		F	3	50	—					
75	Dec. 26	eP	21	16	44.6				683	SW. off Okinawa I. (126.°3E 25.°2N). Felt in Okinawa and Yaeyama Is.
		eS	21	18	16.6					
		F	21	30	—					
76	Dec. 26	eP	22	34	39.7				1680	SSE. off Bonin Is.
		iS	22	37	34.0					
		M <sub>N</sub>	22	37	37.8	3.3		-10		
		F	22	47	—					
77	Dec. 29	iP	20	33	47.8				136	Upper course of River Gokase, Miyazaki prefecture.
		iS	20	34	06.1					
		F	20	35	20.0					



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