

Seismological Bulletin

1928

No.	Date	Phase	Time			Period	Amplitude		△	Remarks
			G.	M.	T.		A _E	A _N		
			h	m	s	s	μ	μ	km.	
1	Jan. 1	eP	7	19	05				995	Lower course of River kintugawa, Ibaraki prefecture.
		L	7	21	19					
		F	7	27	40					
2	Jan. 10	eP	3	33	39				459	Afte shock of the great earthquake in Tango province.
		L	3	34	41					
		F	3	36	50					
3	Jan. 11	eP	15	47	32				237	In the Amakusa-nada.
		S	15	48	04					
		F	15	49	20					
4	Jan. 20	P	10	06	43				209	In the course of River Hisida, kagosima prefecture
		S	10	07	11					
		M _N	10	07	16	1.0		-5		
		F	10	08	50					
5	Jan. 26	P	18	53	21				2206	SSE. off Bonin islands.
		S	18	55	34					
		L	18	57	09					
		M _E	19	01	30	9.7	±10			
		F	19	22	20					
6	Feb. 3	eP	14	03	20				3122	In the Micronesia region.
		L	14	09	27					
		F	14	28	40					
7	Feb. 6	P̄	0	25	35				28	Wrn. part of the Tikuzen province, Hukuoka prefecture. Local shock.
		S̄	0	25	39					
		M _N	0	25	40	0.3		+4		
		F	0	27	00					
8	Feb. 6	eP	3	59	26				2384	Neighbourhood of Mindanao island. Small amplitude.
		eL	4	03	41					
		F	4	41	00					
9	Feb. 7	eP	0	18	33				2522	Distant earthquake.
		L	0	23	08					
		M _E	0	33	59	18.2		-18		
		F	1	12	40					

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			G.	M.	T.		AE*	AN		
			h	m	s	s	μ	μ	km.	
10	Feb. 11	P	21	12	16				993	Valley of River Kogai, Hidati province.
		L	21	14	30					
		M _E	21	14	50	2.4	±10			
		M _N	21	14	40	2.5		+10		
		F	21	22	50					
11	Feb. 13	P	5	38	44				2492	Distant earthquake.
		L	5	43	15					
		M _E	5	43	53	8.3	+25			
		F	5	59	50					
12	Feb. 20	P	3	03	19				267	Upper course of River Takahari, Okayama prefecture.
		S	3	03	55					
		M _E	3	04	02	0.7	±25			
		M _N	3	04	03	0.8		-51		
		F	3	09	40					
13	Feb. 21	eP	16	28	35				165	In the Bungo channel
		eS	16	28	57					
		F	16	31	00					
14	Feb. 21	P	20	04	43				4749	Distant earthquake.
		L	20	14	59					
		M _E	20	18	20	12.7	±25			
		F	20	51	00					
15	Feb. 26	P	1	34	49				4735	Ditto.
		L	1	45	03					
		M _{1E}	1	47	23	16.0	±33			
		M _{2E}	1	51	12	11.9	±23			
		F	2	14	00					
16	Mar. 7	P	22	52	47				2700	In the South Seas.
		S	22	55	57					
		L	22	57	50					
		M _E	22	59	43	10.2	+24			
		F	23	23	40					
17	Mar. 9	P	18	14	49				7817	Indian Ocean.
		S	18	22	35					

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			G.	M.	T.		AE	AN		
			h	m	s	s	μ	μ	km.	
		L	18	32	54					
		M _{1E}	18	37	45	17.8	-293			
		M _{2E}	18	40	16	14.1	+330			
		M _{3E}	18	41	50	15.9	-280			
		M _{1N}	18	35	35	19.2		+241		
		M _{2N}	18	37	29	16.5		-207		
		M _{3N}	18	41	06	15.5		-130		
		F	20	37	—					
18	Mar. 13	M _E	18	49	48	8.6	± 13		—	Distant earthquake.
		F	19	26	—					
19	Mar. 14	P	19	07	27				120	Tidiwa bay.
		S	19	07	43					
		F	19	08	30					
20	Mar. 16	P	5	12	04				7862	Neighbourhood of New Caledonia.
		S	5	20	58					
		L	5	30	16					
		M _E	5	45	42	16.7	± 33			
		F	7	43	00					
21	Mar. 22	eP?	4	17	48				11845	Distant earthquake. P phase not distinct.
		eL	4	46	09					
		M _E	5	32	32	16.7	± 13			Δ doubtful.
		F	6	45	—					
22	Mar. 22	P	20	16	44				173	Off the mouth of Ota river, Hirosima prefecture.
		S	20	17	07					
		M _N	20	17	11	0.6		+6		
		F	20	18	00					
23	Mar. 26	P	22	31	34				50	Upper course of Tikugo river, Oita prefecture. Felt at Hida.
		S	22	31	41					
		M _N	22	31	42	0.3		+4		
		F	22	32	10					
24	Mar. 29	iP	5	07	50				501	SW. off Hatidyo island.
		iL	5	08	58					
		M _E	5	09	16	15.1	+1228			

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			G.	M.	T.		A _E	A _N		
			h	m	s	s	μ	μ	km.	
25	Apr. 9	M _N	5	09	13	4.6		+133		
		F	5	53	10					
		P	3	41	13					
26	Apr. 11	S	3	41	42	1.2		-8	205	Off the mouth of River Gokase, Miyazaki prefecture.
		F	3	44	30					
		M _N	18	10	38					
27	Apr. 14	S	18	11	06	15.7		-24	8611	Ern part of Bulgaria.
		F	18	14	00					
		eP	9	21	41					
		L	9	41	47					
28	Apr. 16	M _E	9	45	57				209	Upper course of the River Oyodogawa, Miyazaki prefecture.
		F	10	44	20					
		P	13	42	04					
29	Apr. 18	S	13	42	23				-	After shock of No. 27.
		F	13	49	20					
30	Apr. 22	P	19	34	54				-	P phase could not be distinguished.
		F	20	38	40					
31	Apr. 24	L	5	01	32	4.4	+10		-	Ditto. Off Kwarenko, Formosa.
		F	5	37	10					
		M _E	19	47	55					
32	Apr. 30	F	20	17	20				1323	
		P	11	03	56					
		L	11	06	54					
33	May 2	F	11	12	20	1.2			234	W. off Simokosiki island.
		P	2	22	25					
		S	2	22	56					
		M _N	2	23	02					
		F	2	27	50					

No.	Date	Phase	Time			Period	Amplitude		Δ	Remarks
			G.	M.	T.		A _E	A _N		
			h	m	s	s	μ	μ	km.	
34	May 2	P	2	30	34	1.0		± 3	235	Ditto.
		S	2	31	05					
		M _N	2	31	07					
		F	2	35	30					
35	May 13	P	7	29	06	0.4		± 8	116	In the Amakusa-nada.
		S	7	29	22					
		M _N	7	29	24					
		F	7	30	40					
36	May 14	eP	22	34	16	23.1	+48		9596	Distant earthquake.
		eL	22	56	53					
		M _E	23	24	55					
	May 15	F	0	46	—					
37	May 19	P	9	34	26				1164	In the Kasima-nada.
		L	9	37	02					
		F	9	49	10					
38	May 20	P	16	31	11	4.9	+20		1010	NErn part of the Tokyo bay. In the epicentral region strong shock was felt.
		L	16	33	27					
		M _E	16	33	55					
		M _N	16	33	52					
		F	16	45	20					
39	May 27	iP	9	53	16	18.2	+1888		1305	NE. off Miyako, Iwate prefecture. Strong shock was felt at Miyako and Morioka.
		L	9	56	12					
		M _E	9	57	42					
		M _N	9	58	33					
		F	12	15	—					
40	May 28	eP	15	38	28	13.3	± 75		1309	After shock of No. 39.
		eL	15	41	25					
		M _E	15	43	50					
		M _N	15	42	49					
		F	16	10	20					
41	May 29	P	18	18	03	14.6			14.8	Upper course of the Gokase river, Miyazaki prefecture.
		S	18	18	23					
		F	18	20	00					

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No.	Date	Phase	Time			Period	Amplitude		△	Remarks
			G.	M.	T.		A _E	A _N		
			h	m	s	s	μ	μ	km.	
42	May 31	eP	7	31	42				907	After shock of No. 39.
		eL	7	33	44					
		M _E	7	34	09	12.2	±16			
		F	7	47	10					
43	May 31	eP	13	51	00				828	
		eL	13	52	52					
		M _E	13	52	59	7.7	±8			
		F	14	10	00					
44	June 1	eP	12	26	25				2075	E. off Miyako, Iwate prefecture.
		eL	12	29	52					
		F	12	41	00					
45	June 1	P	13	15	04				1325	Ditto.
		L	13	18	03					
		M _E	13	20	38	13.6	+295			
		M _N	13	20	16	13.4		-117		
		F	14	07	30					
46	June 3	P	8	31	40				304	WSW. off the coast of Simokosiki island, Kagosima prefecture.
		S	8	32	21					
		M _E	8	32	31	13.4	+3075			
		M _N	8	32	28	9.7		> 858		
		F	9	19	30					
47	June 3	P	9	19	23				309	After shock of No. 46.
		S	9	20	04					
		M _E	9	20	28	9.1	+208			
		M _N	9	20	15	7.3		-120		
		F	9	53	30					
48	June 3	eP	10	05	00				200	Ditto.
		S	10	05	27					
		F	10	08	40					
49	June 4	P	7	53	37				262	Ditto.
		S	7	54	12					
		M _N	7	54	17	1.2		-4		
		F	7	57	40					

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			G.	M.	T.		AE	AN		
			h	m	s	s	μ	μ	km.	
50	June 4	P	21	16	03	1.3			271	Ditto.
		S	21	16	40					
		M _N	21	16	43					
		F	21	19	00					
51	June 5	P	5	56	07	2.9	-125		269	Ditto.
		\bar{P}	5	56	13					
		S	5	56	43					
		M _E	5	57	21					
		M _N	5	57	32					
		F	6	17	20					
52	June 6	eP	9	57	59				217	Ditto.
		S	9	58	28					
		F	10	01	10					
53	June 8	eP	9	33	44				228	Ditto.
		S	9	34	14					
		F	9	39	30					
54	June 14	\bar{P}	0	28	16				223	SE. off the cape of Noma, Kagosima prefecture.
		\bar{S}	0	28	46					
		F	0	31	40					
55	June 15	iP	6	17	31	15.4	+88		3728	Probably western part of Melanesia region.
		iS	6	21	48					
		eL	6	25	11					
		M _E	6	29	45					
		F	8	04	—					
56	June 15	iP	17	21	26	23.1	± 33		3635	Ditto.
		iS	17	25	34					
		eL	17	28	51					
		M _E	17	29	26					
		F	18	11	00					
57	June 17	eP	3	39	03	22.5	+78		8580	Distant earthquake.
		eS?	3	48	44					
		M _E	4	21	45					
		M _N	4	33	36					
					18.0					

No.	Date	Phase	Time			Period	Amplitude		Δ	Remarks
			G.	M.	T.		A _E	A _N		
			h	m	s	s	μ	μ	km.	
58	June 21	F	5	19	—					
		eP	16	37	15				6854	Ditto.
		eS	16	45	11					
		eL	16	52	53					
		M _E	17	05	41	18.3	± 15			
		F	17	42	00					
59	June 29	eP	23	00	03				7230	Ditto.
		eS	23	08	25					
		M _E	23	19	26	31.7	+24			
	June 30	F	0	12	30					
60	July 7	P	8	40	27				489	In the Kii channel.
		S	8	41	33					
		F	8	44	00					
61	July 9	P	21	32	42				—	Distant earthquake. Small amplitude.
		F	22	18	20					
62	July 16	P	17	51	33				235	SW. off Simokosiki island, Kagosima prefecture.
		eS	17	52	05					
		F	17	53	40					
63	Aug. 4	M _E	19	39	57	18.8	± 13		—	All phases could not be distinguished.
64	Aug. 22	P	1	30	49				94	Lower course of the Midori river, Kumamoto prefecture.
		S	1	31	02					
		M _E	1	31	04	0.4	+200			Slight shock was felt at Hukuoka.
		M _N	1	31	03	0.4		-167		
		F	1	34	10					
65	Aug. 22	P	1	34	43				91	After shock of No. 64.
		S	1	34	55					
		M _N	1	34	55	< 0.5		+33		
		F	1	36	10					
66	Aug. 22	P	1	36	52				81	Ditto.
		S	1	37	03					
		F	1	37	30					

No.	Date	Phase	Time			Period	Amplitude		Δ	Remarks
			G.	M.	T.		A _E	A _N		
			h	m	s	s	μ	μ	km.	
67	Aug. 29	P	19	03	19				81	Ditto.
		S	19	03	30					
		F	19	04	50					
68	Sept. 1	eP	6	25	15				5350	Distant earthquake.
		eL	6	37	03					
		F	7	18	10					
69	Sept. 6	P	6	29	27				2851	Ditto.
		L	6	34	52					
		M _E	6	36	54	11.8	± 14			
		F	6	56	50					
70	Sept. 22	P	7	41	21				6390	Ditto.
		eS	7	49	14					
		L	7	55	48					
		M _E	8	03	26	20.2	± 14			
		F	8	34	30					
71	Sept. 25	P	4	59	03				114	Ern part of Suo-nada. Slight shock was felt at Hukuoka.
		S	4	59	18					
		M _E	4	59	20	0.9	+225			
		M _N	4	59	22	1.0		+213		
		F	5	13	00					
72	Sept. 28	\bar{P}	8	06	07				88	Near Kumamoto. Weak shock was felt at Kumamoto.
		\bar{S}	8	06	19					
		M _E	8	06	21	0.7	-20			
		M _N	8	06	20	0.5		-23		
		F	8	09	10					
73	Oct. 5	P	7	02	17				161	Probably Iyo-nada.
		S	7	02	39					
		M _N	7	02	42	2.5		+5		
		F	7	07	40					
74	Oct. 9	eP	3	20	32				8580	Distant earthquake.
		eS	3	30	21					
		M _E	4	05	46	17.6	+25			
		F	5	09	—					

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			G.	M.	T.		A _E	A _N		
			h	m	s	s	μ	μ	km.	
75	Oct. 9	P	22	42	51				189	Upper course of the Oyodo river, Miyazaki prefecture.
		S	22	43	16					
		F	22	45	00					
76	Oct. 12	eP	7	31	57				4900	Okhotsk sea.
		eS	7	38	34					
		F	8	09	50					
77	Oct. 12	P	12	23	55				242	Upper course of River Gono-gawa, Hiroshima prefecture.
		S	12	24	28					
		F	12	26	20					
78	Oct. 15	eP	14	48	14				3165	Distant earthquake.
		eS	14	53	08					
		M _E	14	57	45	13.1	+15			
		F	15	14	30					
79	Oct. 20	P	12	47	49				410	S. off the coast of Yaku-jima, Kagosima prefecture.
		S	12	48	44					
		M _E	12	49	18	7.7	+175			
		M _N	12	49	12	3.4		-117		
		F	13	03	00					
80	Nov. 5	P	4	41	08				79	Probably upper course of the Tuetate river, Kumamoto prefecture.
		S	4	41	19					
		M _E	4	41	22	0.6	-68			
		M _N	4	41	23	0.6		-121		
		F	4	45	00					
81	Nov. 6	eP	4	11	23				11940	Distant earthquake.
		eS	4	23	42					
		eL	4	33	25					
		F	5	07	—					
82	Nov. 16	P	3	13	56				102	W. coast of Nagasaki prefecture.
		S	3	14	09					
		M _N	3	14	18	1.3		±5		
		F	3	16	20					
83	Nov. 17	eP	9	52	21				94	After shock of No. 80

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			G.	M.	T.		A _E	A _N		
			h	m	s	s	μ	μ	km.	
84	Nov. 23	S	9	52	34					Felt at Ginsui and Hosino, Hukuoka prefecture. In the Tosa bay.
		F	9	54	30					
		P	17	49	14				258	
		S	17	49	49					
		M _E	17	50	00	1.4	-10			
		M _N	17	50	02	1.5		-23		
85	Nov. 28	P	10	51	07				4730	Distant earthquake.
		S	10	57	35					
		eL	11	02	00					
		F	11	40	--					
86	Dec. 1	eP	4	26	24				17100	Wrn coast of Chili, South America. A very strong shock was felt at the epicentral regions.
		S	4	41	43					
		SS	4	52	02					
		eL	5	20	58					
		M _{1E}	5	26	20	23.2	+53			
		M _{2E}	5	31	48	19.4	-73			
		M _{3E}	5	44	42	18.5	+100			
		M _{4E}	5	58	35	20.8	+100			
		M _{1N}	5	41	38	21.1		-25		
		M _{2N}	6	03	12	19.2		+47		
87	Dec. 3	P	16	33	18				185	WNW. off Simokosiki-jima island. Felt at Kagosima.
		S	16	33	42					
		M _E	16	34	04	2.4	+48			
		M _N	16	34	02	2.1		-41		
		F	16	40	00					
88	Dec. 7	eP	9	21	25				4070	Distant earthquake, probably in the South Seas.
		eS	9	27	07					
		L	9	30	08					
		M _{1E}	9	32	57	18.7	+115			
		M _{2E}	9	36	28	18.7	± 73			
		M _N	9	35	11	19.2		-17		
		F	10	14	30					

No.	Date	Phase	Time			Period	Amplitude		Δ	Remarks
			G.	M.	T.		A _E	A _N		
			h	m	s	s	μ	μ	km.	
89	Dec. 9	\bar{P}	21	20	31				74	In the Saseho bay. Felt at Saseho, Nagasaki, Kumamoto, Saga, Hukuoka and SW. part of Hukuoka prefecture.
		\bar{S}	21	20	40					
		M _E	21	20	46	0.4	+38			
		M _N	21	20	42	0.3		-25		
		F	21	22	50					
90	Dec. 13	eP?	20	10	09				398	All phases could not be distinguished. Δ doubtful.
		eS?	20	10	34					
		eL?	20	11	03					
		M _N	20	11	13	3.0		+5		
		F	20	15	00					
91	Dec. 19	eP	11	42	53				2640	Probably in the neighbouring sea of Mindanao island.
		S	11	47	00					
		SS	11	47	57					
		L	11	49	31					
		M _E	11	56	05	23.0	-3,488			
		M _N	11	52	—	12.5		> 646		
92	Dec. 20	P	15	08	25				114	N. part of Amakusa-nada. Felt at Nagasaki.
		S	15	08	40					
		M _N	15	08	42	0.8		+3		
		F	15	09	30					
93	Dec. 21	P	19	36	44				70	Near Minami-Oguni, Kumamoto prefecture. Felt at places in the Hukuoka prefecture, moderately or slightly.
		S	19	36	54					
		M _E	19	37	07	0.5	-47			
		M _N	19	36	54	0.5		+47		
		F	19	38	40					
94	Dec. 21	eP	19	39	55				77	After shock of No. 93. Small amplitudes.
		S	19	40	05					
		F	19	40	30					
95	Dec. 21	P	19	57	07				70	Ditto.
		S	19	57	16					
		F	19	57	40					
96	Dec. 21	P	23	17	47				76	After shock of No. 93.

No.	Date	Phase	Time			Period	Amplitude		Δ	Remarks
			G.	M.	T.		A _E	A _N		
			h	m	s	s	μ	μ	km.	
97	Dec. 22	S	23	17	58					Rather strong shock was felt at the epicentral regions. Felt at places in the Hukuoka prefecture, moderately or slightly.
		M _E	23	18	06	0.6	-60			
		M _N	23	17	59	0.5		-82		
		F	23	22	50					
		P	1	00	13				75	
98	Dec. 22	S	1	00	23					After shock of No. 93.
		M _N	1	00	24	0.4		-8		
		F	1	01	10					
		P	3	35	29				64	
99	Dec. 28	S	3	35	37					Ditto.
		M _N	3	35	38	0.5		-7		
		F	3	36	20					
		eP	14	23	45				4140	
100	Dec. 28	S	14	29	30					Distant earthquake. Probably in the South Seas.
		M _E	14	37	32	20.0	+70			
		F	15	17	—					
		P	17	11	02				54	
101	Dec. 30	S	17	11	09					After shock of No. 93.
		M _N	17	11	10	0.4		-8		
		F	17	12	50					
		eP	5	25	52				217	
102	Dec. 30	eS	5	26	21					W. off Simokosiki-jima island.
		F	5	28	20					
		S	9	12	32				—	
		F	9	12	50					Upper course of the River Midori-gawa, Kumamoto prefecture. Faint record.