

Matsuyama 1949.

No.	Date	Phase	Time(G.C.T)			Amplitude micron			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
1	Jan. 20	ep es ef	11	43	020 480 45 50.				0	Atsumi bey. 137°2E. 34°7N. Focal depth; 10km.	
2	20	ip es MN ME MZ ef	13	25	324 26 009 34 30.	-25 -107 -800 +650 +340	-24 +19	1.0 1.5	II	Western part of Tajima (Hyogo prefecture). 134°6E. 35°6N. Focal depth; 20km. Maximum intensity; Toyooka - IV. Slight damage in the neighborhood of Toyooka.	
3	22	ep es ef	14	33	065 253 34 0.				0		
4	27	ep es ef	12	56	100 300 58 30.				0	Atsumi bey. 137°2E. 34°7N. Focal depth 20km Maximum intensity; III; observed in the part of middle Japan.	
5	Feb. 9	ep es MN ef	02	39	080 41 30.	+18 -63		12	0	Near Mt. Tsurugi (Shikoku). 134°4E. 33°7N. Focal depth; 20km. Maximum intensity; II; Tokushima. Radius of intensity I; about 140km.	
6	10	ep es ef	17	00	328 528 01 43.				0	After shock of No. 5. 134°4E. 33°8N. Focal depth 10km.	
7	28	ep es ef	02	35	020 360 37 00.				0	Near Kyoto (Central Japan). 135°4E. 35°0N. Shallow. Maximum intensity; IV; Kyoto. Radius of intensity I; about 140km.	
8	28	ep es MN ME ef	07	11	490 560 14 0.	-29 +47 -31		0.3 0.3	0	Iyo-nada (Setouchi). 132°E 33°N. Shallow.	
9	Mar. 13	ep es ef.	11.	25	220 286 26 02.				0		
10	19	ep es MN ef	11	43	310 490 46 0.	-67		1.8	0	Near Tokushima. 134°4E. 33°7N. Focal depth; 35km.	
11	19	ip is MN ME MZ ef	18	20	120 440 25 30.	-640 +570 +165		0.3 0.3 0.3	II	Near Tanegashima (Kyushu). 131°2E. 31°0N. Focal depth; 60km. Maximum intensity; IV; Miyazaki. Radius of intensity I; about 570km.	
12	Apr. 5	ep ef	05	26	232 27 01.				0	Near Matsuyama.	

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			h.	m.	s.	N	E	Z			
13	Apr. 5	ep iS eF	09	29	055 30 399 44 24			-7	64	0	Offing ESW of Vladivostok 131°E. 42°N. Deep, Focal depth 600km.
14	9	ep eS eF	11	35	340 440 36 20.					0	Iyo-nada (Setouchi) ?
15	13	ep iS MN ME eF	12	49	200 258 265 268 58.	+4	+6		0.5 0.5	0	Near Matsuyama.
16	24	ep eS ME eF	07	21	284 54.9 22 026 23 10.			-7	15	0	East coast of Wakayama. 135°E. 33°N. Very shallow.
17	29	ep i eS ME1 MN ME2 eF	12	29	265 360 30 010 030 082 17.9 35 560			+29 +41 -29	0.9 10 10	0	Hyuga-nada (Offing SE of Kyushu). 132°E. 32°N. Focal depth; 20km. Maximum intensity; III; Miyazaki. Radius of intensity I; about 160km.
18	30	ep i i iS MN i eL eF	01	29	183 140 404 33 560 34 025 39 578 40 100 02 01 30.			+12 -50 -30	140 120 200	0	Near Mindanao Is. (Philippin). 127°E. 07°N. Focal depth; 100km.
19	May 5	epz epN iZ iN iSN MN eF	06	01	065 155 218 223 05 113 155 13 50.			-2 -10 +8 +9 +11	30 30	0	Near One-Kotan Is. (Kurile Is.) 155°E 49°N. Focal depth 160km.
20	10	ep S ? MN eF	03	28	275 320 360 29 18.			-5		0	134°E. 34°N. ?
21	10	ep MN eF	21	07	260 08 010 350					0	South part of Hyuga-nada. 132°E. 31°N. Very shallow.

Matsuyama 1949.

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			h.	m.	s.	N	E	Z			
22	May 17	iPZ	22	48	038			+9	0.5	II.	Upper Yoshino river (Shikoku). 133°8'E. 34°0'N. Focal depth 20km Maximum intensity; III; Kochi and Tokushima. Radius of intensity I; about 190km.
		iPEN			05.0	-21	-107		0.6		
		iSEN			15.3						
		ME			16.2	-400			0.8		
		MZ			19.0		+125		0.5		
		MN			19.5	-208			0.8		
		i. eF	49	49.0					5.0		
	52	45.									
23	June 4	iP	22	28	377			+3		0	After shock of No. 22. 133°7'E. 33°8'N. Focal depth. 30km
		iS			48.0						
		MN			48.2	+8			0.2		
		eF	29	40.							
24	11	P	10	17	18.0					0	Near Hiroshima.
		iS			27.9						
		MN			28.9	+17			0.4		
		eF	18	22.							
25	27	ep	05	20	29.0					0	Lower Takuma river (Kyushu). 130°6'E. 32°4'N. Focal depth; 30km.
		S			21 05.0						
		ME			07.0	±6			1.0		
		eF	22	30.							
26	July 2	ep	20	02	06.0					0	Near Marianna Is.
		S			06 01.0						
		L			09 14.0						
		MN			31.0	+29			18.0		
		eF	34	10.							
27	11	iP	16	10	04.7	-38	+31			III	Aki-nada (Setouchi). 132°4'E. 34°1'N. Focal depth; 20km. Maximum intensity; III Radius of intensity I; about 300km.
		S			10.8						
		MN				-23500			?		
		ME				-23000					
		MZ					-3500				
		eF	21	30.							
28	13	iP	12	12	25.3	±0	+5	-1		0	Near Kotohira (Shikoku). 133°8'E. 34°2'N. Shallow.
		iS			41.2						
		ME			44.5	-40					
		MN			50.2	±70			3.0		
		eF	15	35.							
29	Aug 8	ep	14	56	20.0			+2		0	Upper Yoshino river (Shikoku). 133°5'E. 34°0'N. Focal depth 20km.
		iS			28.9						
		ME			30.9	+18			0.7		
		eF	57	20.							
30	9	ep	16	10	14.5					0	Near Mt. Mikuni (Kyoto.) 135°6'E. 35°3'N. Focal depth; 10km. Maximum intensity; III; Maizuru.
		iS			54.5						
		eF	12	10.							

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			h.	m.	s.	N	E	Z				
31	Aug. 9	ep ip S M2 MN ME eF	16	27	17.4 23.9 57.8 28 04.8 15.7 16.5 32 30.	-30	-20	-28	15 2.5 2.8	0	After shock of No. 30. Maximum intensity; III. Radius of intensity I; about 250km.	
32	10	P S eF	09	51	25.5 52 05.5 54 25.					0	After shock of No. 30. 135°E. 35°N. Focal depth; 10km. Maximum intensity; II; Maizuru.	
33	17	P S F	00	59	32.8 34.8 50.					0	Near Matsuyama.	
34	17	ep i i i eL eF	18	37	25.5 38 51.0 39 51.5 19 06 35.5 20 20.5 50 0.					0	East part of Turkey. 40°E 39°N. Killed; 256 persons; Wounded; 145 persons; Demolished; 1100 houses; } in the Elzerum and its region. This earthquake is probably a very great scale.	
35	18	ip is MN eF	09	59	53.1 10 01 08.5 10.6 05 10.	+2	-2	+3	30	0	139°2E. 30°0 N. Focal depth; 300km.	
36	22	ip eS eL M2 ME MN eF	04	12	00.9 20 51.4 32 51.4 36 18.2 36 24.4 36 49.0 06 27 50.	-1	-1	+3	-58	24.2 20.0 22.6	0	South Coast of Columbia. 133°W. 55°N. From Tsunami; 2 feet; in Katchikan (Alaska).
37	22	ip eS MN ME eF	19	01	51.3 02 19.5 30.8 32.3 05 50.	+1	+2	+20	-14	0.9 0.8	0	Near Udo-penin. (Kumamoto) 130°6E. 32°6 N. Focal depth; 10km. Maximum intensity; III; Kumamoto.
38	25	P S F	13	37	10.4 26.3 38 24.						0	SW. part of Tokushima (Shikoku).
39	25	P is MN ME F	14	59	52.8 15 00 05.0 06.7 07.1 01 23.	-3	-2	+7	±6	0.6 0.5	0	Near Tokushima.
40	26	ep S ME eF	09	45	54.0 46 08.5 17.4 47 45.			+9		0.6	0	Offing SW of Maroto penin (Shikoku).
41	26	ep eS eF	11	00	47.7 01 10.6 02 35.						0	

Matsuyama 1949.

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			h.	m.	s.	N	E	Z			
42	Sept. 1	P S eF	17	45	09.5 21.9 46 15.0				0		
43	4	P S eF	14	47	33.9 49.9 48 40.				0	South part of Tokushima.	
44	7	P S F	17	40	52.1 17.6 42 0.				0		
45	11	ip eS ME MN eF	05	40	55.2 16.8 35.4 42.4 47 24.	±0	-2	+1	10 20	Upper Hidaka river (Wakayama). 135°E. 33°N. Focal depth; 55km. Maximum intensity; III; Wakayama. Radius of intensity I; about 200km.	
46	11	ep eF	06	37	42.1 38 45.				0	After shock of No. 45.	
47	13	P S F	15	16	25.9 46.9 18 26.				0	Near Hiwasa (Tokushima).	
48	14	epv epe pp(pp) pp(sp) eS SS eh? ScS? eF	19	58	55.9 58.7 58 15.3 29.6 20 02 130 04 40.4 06 31.5 07 24.4 38 21.	+2	±0	+2		Near Celebes sea, 122°E. 04°N. Deep?	
49	16	P F	19	06	13.6 52.				0		
50	16	ep eS eF	19	17	50.0 23 10.0 26 30.				0	After shock of No. 48.	
51	19	P. i eS i MN ME eF	00	09	13.8 26.3 39.3 47.3 53.3 55.3 12 40.	-7			11 08		
52	20	P eS eL eF	02	28	23.3 30 03.1 47.1 43 10.				0	Offing Sado Is. (North Japan) 137°E. 38°N. Focal depth; 40km. Maximum intensity; III; Niigata. Radius of intensity I; about 290km.	
53	22	ep S MN ME eF	18	24	01.4 23.8 28.4 36.4 26 0.	+16		-13	10	West part of Kii channel.	

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			h.	m.	s	N	E	Z			
54	23	ip M2 MN ME iS eF	08	14	227 235 237 246 16 10.4 24 30.	-10	-20	-22 -33	0.8 0.9 0.7	0	South of Amur region Deep 134°E. 44°N. Focal depth; 300km Maximum intensity; III; Hokkaido, Radius of intensity I; about 100km.
55	27	ep es el eF	15	39	45.5 48 05.5 16 00 46.5 15 32.5					0	South coast of Alaska, 125°W. 60°N.
56	28	ip iS ME MN eF	21	58	25.9 49.0 52.5 53.0 22 01 0.	-1	-5	-4 +5 ±8	0.9 0.9	0	Near Kii channel.
57	Oct. 3	ip iS ME MNZ eF	01	43	49.2 55.7 55.9 56.6 49 13.6	-1	-1	+3 -8 +45 ±14	0.7 0.7	0	Offing North of Shisaka Is. (Setouchi) 133°E. 34°N.
58	4	ep iS M2 ME MN eF	17	53	170 292 31.7 34.9 37.9 57 20.	-2	-2	-2 +17 -19 -41 -55	0.8 0.8 2.0 2.3 0.6 0.5	0	Offing north coast of Sadanomisaki (Shikoku) 132°E. 33°N. Focal depth 700km Radius of intensity I; about 120km.
59	5	ep es eF	20	22	07.7 23 35.7 30 19.7					0	
60	5	ep es eF	21	05	58.0 07 25.5 13 09.5					0	NW of Mito (Ibaraki prefecture). 140°E. 36°N. Very shallow. Maximum intensity; III; Mito. Radius of intensity; about 170km.
61	8	ip iS eF	08	06	33.3 36.9 50.9					0	Near Matsuyama.
62	9	ep iS MN ME eF	08	56	47.5 57 12.4 12.8 14.4 58 10.3	±0	+1	+5 +8 -6	0.8 0.8 0.7	0	Offing Hinomisaki (Wakayama). 134°E. 33°N.
63	14	ep s eF	06	23	29.9 46.2 58.2					0	
64	15	ip iS eF	15	26	01.6 16.3 27 08.	-1	+3			0	Near Bungo channel. ?
65	16	ep iS eF	11	55	47.2 56 02.3 57 30.					0	Near Bungo channel ?

Matsuyama 1949

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			h.	m.	s.	N	E	Z			
66	Oct. 16	ep i es ef	23	48	269 549 49 153 51 25				0	Middle Gasaku river (Aichi prefecture), 137.2E 35.0N. Focal depth: 40km. Maximum intensity: III; Nagoya. Radius of intensity I; about 130km	
67	19	ep ppp i i es sss eh ef	21	08	348 10 230 11 020 330 14 475 18 070 20 286 43 57				0	Near Bismark archipelago, 132°E. 1°S.	
68	23	ep is ef	04	32	241 381 33 16				0	Offing Kochi.	
69	23	ep is ef	16	43	322 410 44 535				0	Offing north of Sadanomisaki (Setouchi).	
70	25	P es? i ef	13	09	257 11 102 193 16 43				0	East of Mito (Ibaraki prefecture). 140.6E. 36.6N. Focal depth 95km. Maximum of intensity: III Mito Kakioka. Radius of intensity I; about 350km.	
71	27	ip is Mz MN ME ef	05	03	410 438 439 440 455 07 554	+11 +19 +14 +99 +72 -28 -186		05 04 06 05	II	NW of Matsuyama.	
72	Nov. 3	P s ME MN SS SCS? ef	01	17	167 21 050 091 122 22 009 28 169 34 -				0	North part of Chishima Is. 154°E. 49°N. deep.	
73	9	ep is ef	11	39	599 40 248 41 20				0	North of Himeji (Hyogo prefecture).	
74	9	ip ef	14	26	522 27 20				0		
75	10	ip is ef	22	12	362 455 13 165				0		
76	14	p is ef	16	26	075 255 28 050				0	South part of Tokushima.	

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77	Nov. 14	P iS eF	16	36	286 464 38 342				0	After shock of No. 76.	
78	15	ep iS eF	10	01	262 398 03 -				0	SW. part of Tokushima.	
79	17	iSP iS eF	22	30	151 31 076 33 029				0	Offing south of Kumano-nada, 139.5E, 32.0N. Focal depth 320km. Felt at Tokyo. Radius of intensity I; about 520km.	
80	19	iP iS MEZ MN eF	04	02	514 593 59.7 03 022 07 45	+6 +10 +2 -30 +170 -33 -250 +44 +102		0.6 0.6 0.6	I	Iyo-nada. 132.1E, 33.7N.	
81	22	ep eF	01	03	30.9 09 11.0				0	Far.	
82	24	ep eS MN ME M2 eF	12	57	096 263 326 341 385 13 00 38.	+0 +4 -4 -18 -20 +14		1.1 0.9 ?	0	SW of Tokushima. 134.3E, 34.0N. Very shallow. Radius of intensity I; about 140km.	
83	30	ep iS ME MN eF	22	07	172 342 357 418 09 43.	+1 +2 -6 +6 +16 -15		1.2 0.8 2.0	0	After shock of No. 82.	
84	Dec. 1	ep iS ME MN ME ME eF	00	20	540 21 036 040 046 22 -	-12 +13		0.8 0.6	0	Near Sadanomisaki (Shikoku), Felt at Uwajima.	
85	6	P S H	22	27	562 30 424 34 30.				0		
86	15	P S MN ME eF	11	46	368 47 001 049 093 48 566	+ - -10 -8		0.8 0.6	0	Near Kii channel.	
87	16	ep S eF	08	10	393 11 012 47.0				0	Near Wakayama.?	
88	16	ep S eF	10	48	040 144 45.7				0		

Matsuyama 1949

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89	Dec. 17	ep eF	07 09	13 18	59.2 35.5				0.	Chike (South America). 71°W. 54°S.	
90	17	ep eF	15 17	27 36	51.5 30.				0	After shocks of No.89.	
91	21	ep eS eF	22	27	09.5 40.0 28 30.3				0	Middle part of Hyogo prefecture.	
92	25	ep eSN eSSN eL MN ME eF	23	19	07.7 20 20.3 31.7 56.1 21 18.8 37.9 in next	+1 -49 +116 +64 shocks	+4	6.2 10.3 9.8	0	Near Imaichi (Tochigi prefecture). 139°7E. 36°7N. Focal depth 10km. Maximum intensity; IV; near the epicenter. Radius of intensity I; about 330km.	
93	25	ep iEN eSN eSSN ME MN eF	23	26	32.8 27 31.7 45.1 58.6 29 02.7 20.3 58 17.	+125	+92	9.3 7.0	0	After shocks of No.92. 139°7E. 36°7N. Focal depth 10km. Maximum intensity; V; near the epicenter. Radius of intensity I; about 550km. Some killed and demolished in the neighborhood of epicenter.	
94	26	ep eL eF	06	34	47.1 43 41.0 16 21 27.				0	Near Fiji Is. 180°E. 14°S.	
95	27	ep eS iEN MN hZ MZ ME eF	08	57	43.2 58 55.3 59 14.8 49.5 09 00 01.3 12.5 13.7 13 53.7	-27 +24	-18	12.6 9.8 9.5	0	After shocks of No.92, 93. 139°7E 36°7N. Focal depth; 10km Maximum intensity; II; Utsunomiya. Radius of intensity I; about 240km.	
96	29	ep i PP PPP PPPP i i eS SS eL ME eF	03	08	18.5 36.8 52.7 09 08.5 20.2 10 06.6 12 14.4 46.1 13 49.3 16 35.6 19 05.6 04 34 50.	-40		13.2	0	Near Philippine Islands. 132° 122°E. 19°N.	