

# The Seismological Bulletin

of

The Sectional Meteorological Station.

Matsuyama Japan

From *Jan. 1st 1952* to *Mar. 31st 1952*

## Notations

1. Nature of the motion : —  
 i ; Sudden commencement of a phase.  
 e ; Gradual or indistinct commencement.
2. Amplitude; —  
 N ; N—S component of amplitude.  
 E ; E—W component of amplitude.  
 Z ; Vertical component of amplitude.  
 Displacements of the north, east and upwards  
 are regarded as being positive.
3. Scales of seismic intensity ; —  
 The intensity of the shock is estimated according  
 to the scales 0—VII.

	No Feeling	Slight	Weak	Rather Strong	Strong	Very Strong	Rather Disastrous	Disastrous
Scale	0	I	II	III	III	V	VI	VII

Matsuyama 1952

No.	Date	Phase	Time(G.C.T)			Amplitude micron			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
1	Jan. 1	ep is ef	05	13	18.5 22.0 48.5	-	-	-		0	
2	2	ip is MN ME MZ ef	15	58	28.2 38.2 39.7 40.2 40.7 16 00 37.2	-1, +1, -1			22 24 6	0.3 0.3 0.3	the middle part of the River yoshino
3	2	ip is MZ ME MN ef	22	43	45.9 44 08.4 11.4 12.9 12.9 46 05.4	-1, -1, +1			16 74 32	0.5 0.5 0.5	the cannal Akaishi; 134.6 E. 34.4 N
4	5	ep is ef	13	19	47.7 20 06.2 42.7	-	-	-		0	Nw part of Awagishima, Heugō Pref.; 134.8 E, 34.5 N
5	13	ep es el ef	04	06	58.3 09 12.3 53.8 05 00	-	-	-		0	
6	14	ep es ef	12	38	31.0 45.5 39 25.5	-	-	-		0	
7	14	ep es ef	14	14	42.9 50.4 15 24.9	-	-	-		0	
8	20	ep es ef	05	46	40.0 47 38.5 50 30.0	-	-	-		0	Near Hachi'jo Island; 139.0 E, 33.2 N
9	20	ep es ef	08	43	33.0 57.5 44 40.0	-	-	-		0	Near Awagishima, Heugō Pref.
10	27	ep es ef	12	42	02.5 08.0 43 02.0	-	-	-		0	
11	28	ep es ef	05	15	11.0 20.5 16 00.0	-	-	-		0	the low part of the River Miyodo; 133.4 E, 33.5 N
12	30	ep es ef	11	45	29.8 56.8 47 19.3	-	-	-		0	
13	30	ep es ef	13	25	23.5 34.5 26 19.0	-	-	-		0	
14	30	ep es ef	17	37	07.3 26.3 38 11.3	-	-	-		0	

No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
15	Feb. 3	ep es eft	12	26	16.4 42.4 28 30.4	-	-	-		0	the cannal akaiishi; 135.0 E, 34.6 N
16	5	ep es eft	16	56	17.0 57 15.0 59 27.0	-	-	-		0	
17	6	ep is eft	09	09	49.5 10 15.0 11 24.0	-	-	-		0	near the bay Tanabe; 135.3 E, 33.7 N
18	6	ep is eft	17	17	30.5 41.5 18 53.0	-	-	-		0	
19	11	ip e e e e eft	07	08	24.0 09 23.5 10 20.0 14 13.0 17 11.0 27 00.0	+8.	+10.	+4.		0	
20	11	ep e es e eft	16	34	15.0 35 20.0 36 01.0 39 47.0 41 56.0	-	-	-		0	
21	11	ep es eft	20	58	20.0 30.0 59 00.0	-	-	-		0	
23	14	ep i es LR e eft	03	46	07.0 47 57.0 52 26.0 54 05.0 55 47.0 04 49 00	-	-	-		0	
24	14	ep es eft	16	41	53.5 42 13.0 40.0	-	-	-		0	
25	14	ep es eft	16	43	57.5 44 17.5 55.0	-	-	-		0	
26	23	ep es eft	04	03	23.8 51.3 04 48.8	-	-	-		0	the low part of the River Arita; 135.1 E 34.0 N
27	24	ep es e eft	23	00	46.5 03 59.0 04 39.0 09 30.0	-	-	-		0	
28	Mar. 2	ep is eft	13	12	04.1 10.1 33.1	-	-	-	+3, +3	0	About mastuyama district

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No.	Date	Phase	Time(G.C.T)			Amplitude micron			Period s.	Scale	Remarks
			h.	m.	s	N	E	Z			
27	Feb. 24	ep eS e eF	23	00	46.5 59.0 39.0 30.0	-	-	-		0	
28	Mar. 2	ep iS oF	13	12	04.1 10.1 33.1	+3,	+3,	-		0	about matsuyama district
29	4	p e eS L MN ME oF	01	25	57.7 14.7 16.2 48.7 53.7 33.7 50.	-4,	-4,	+4		0	off Tokachi, Hokaido
						1033			9.0 8.5		
30	4	ep eS eF	13	41	00.2 38.2 44 00.0	-	-	-		0	about mikuni-touge; 135.8E 35.3N
31	4	ep eS eF	16	34	04.7 36 32.7 17 02 00.0	-	-	-		0	aftershock of No. 29
32	4	ep eS e eF	19	39	42.2 42 07.2 47 05.2 50 00.0	-	-	-		0	"
33	4	ep eS eL e eF	19	59	19.0 20 01 40.0 02 05.0 06 35.0 21 00 00	-1,	-1,	+1		0	"
34	5	ep eS eL eF	03	52	14.1 54 30.6 55 03.6 04 18 00	-	-	-		0	"
35	5	ep eS eL eF	09	20	05.3 22 17.3 52.3 40 00.0	-	-	-		0	"
36	5	ep eS eL eF	15	57	21.7 59 53.7 16 00 35.7 20 00.0	-	-	-		0	"
37	6	ep eS eF	04	51	34.9 52 28.9 59 32.9	-	-	-		0	about matsuyama district 136.3E 36.0N
38	6	ep eS eF	23	17	46.9 18 52.9 22 27.9	-	-	-		0	South part apart Fukuji city 136.3E 36.0N

No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
39	Mar. 7	ip iS MN ME MZ eF	07	33	38.8	-3	-25	+16		0	off Yoshikawa, Ishikawa Pref.; 136.4E, 36.6N
				34	34.8				3.5		
					57.3	533			4.0		
					58.0	1360					
				35	24.8			368	5.7		
			08	20	24.8						
40	9	ep eS eF	07	18	57.8	-	-	-		0	off Ataka, Ishikawa Pref.; 136.3E, 36.5N
				19	53.8						
				23	11.8						
41	9	ep eS eF	07	37	34.2	-	-	-		0	off Laiseigi, Ishikawa Pref.; 136.2E, 36.5N
				38	27.7						
				40	11.7						
42	9	ep iS eF	10	26	50.0	-	-	-		0	about Mastuyama district
					56.5						
				28	21.0						
43	9	ep eS e(L) eF	17	06	30.4	-	-	-		0	aftershock of No. 29
				08	31.4						
					54.4						
			18	00	06.4						
44	10	ep eS eF	05	02	23.8	-	-	-		0	off Laiseigi, Ishikawa Pref.; 136.2E, 36.5N
				03	13.3						
				06	05.8						
45	13	ep eS eF	09	30	52.1	-	-	-		0	off Sanrinohama, Fukui Pref. ; 136.1E 36.5N
				31	42.6						
				33	11.6						
46	13	ep WS L eF	13	59	10.7	+1	+1	+1		0	SE off Yakushima
			14	00	28.7						
					47.7						
			15	00							
47	13	ep eS eF	23	03	50.2	-	-	-		0	off Sanrinohama, Fukui Pref.; 136.0E, 36.4N
				04	44.2						
				06	48.2						
48	14	ep eS eF	07	30	31.2	-	-	-		0	N off Wakasa-bay
				31	25.2						
				32	50.2						
49	14	ep iS eF	14	02	05.8	-	-	-		0	about Mastuyama district
					11.8						
					50.8						
50	15	ep eS eF	11	14	05.0	-	-	-		0	
			"	"	"						
			12	01	00						
51	15	ep eS eF	12	36	02.6	-	-	-		0	
			"	"	"						
					45						
52	15	ep eS eF	14	26	58.4	-	-	-		0	
				27	58.9						
				32	00						

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No.	Date	Phase	Time(G.C.T)			Amplitude micron			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
53	Mar. 16	ep es ef	22	12	09.7 24.7 22	-	-	-		0	
54	18	ep es e ef	16	49	39.2 26.2 36.7 25	-	-	-		0	off daiseigi, Ishikawa pref.; 136.3 E 36.4 N
55	19	ep es L M <sub>N</sub> M <sub>Z</sub> M <sub>E</sub> ef	09	06	12.2 32.2 55.2 34.2 36.2 44.2 22 25.2	-	-	-		0	SE off Yoku-shima
56	19	ep e e e e M <sub>Z</sub> M <sub>N</sub> M <sub>E</sub> ef	11	02	30.2 01.2 55.2 22.2 47.7 50.2 32.7 45.2 36	-	-	-		0	
57	20	ip is ef	08	08	37.7 47.7 30.2	-	-	-		0	
58	22	ep es ef	18	59	22.0 43.0 36.0	-	-	-		0	
59	26	p is ef	07	04	33.0 48.0 00.6	-	-	+1		0	about Miyoshi, Hiroshima pref.

the End.

# The Seismological Bulletin

of

The Sectional Meteorological Station.

Matsuyama Japan

From *Aug. 1st 1942* to *Sept. 30<sup>th</sup> 1942*

## Notations

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3. Scales of seismic intensity ; —  
The intensity of the shock is estimated according  
to the scales 0—VII.

	No Feeling	Slight	Weak	Rather Strong	Strong	Very Strong	Rather Disastrous	Disastrous
'Scale	0	I	II	III	III	V	VI	VII

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No.	Date	Phase	Time(G.C.T)			Amplitude micron			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
144	August 1	ep cs eF1	09	29	44.0	-	-	-	-	0	the upper reaches of the River nogami; N 34.7 Z 134.7
145	+	ep e es eF1	11	06	44.9	-	-	-	-	0	Hinga - Nada N 31.8 Z 131.9 H 20K
146	δ	ep cs e eF1	17	44	44.3	-	-	-	-	0	
147	δ	ip is MZ MZ MN eF1	13	29	07.2	-	+6	+2	-	0	about Stuzgi yama; N 33.8 Z 134.0 H 10K
148	δ	ep es eF1	13	33	03.7	-	-	-	-	0	about Stuzgi yama; N 33.8 Z 134.0 H 10K
149	δ	ep es eF1	14	17	26.6	-	-	-	-	0	
150	ρ	ip cs MN MZ MZ eF1	21	20	19.7	+4	+2	+4	-	0	north west 10K apart Uwajima Ehima pref; N 33.3 Z 132.4 H 20K
151	ρ	ep es eF1	12	42	24.3	-	-	-	-	0	the upper reaches of the River Koburyu; N 34.3 Z 134.8 H 20K





No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s	N	E	Z			
N2	aug 9	ep es eF	19	00	+68	-	-	-	-	0	about Suwayama; N 338 Z/34.1
N3	9	ep es eF	22	11	04.1	-	-	-	-	0	off misaki; N 343 Z/33.8 H 10K
N4	12	ep es eL eF	14	18	06.8	-	-	-	-	0	
N5	14	ep es eL eF	20	00	44.4	-	-	-	-	0	
N6	17	ep es eF	09	22	40.4	-	-	-	-	0	North-West 10K off muroto- misaki; N 336 Z/34.6 H 20K
N7	17	ep e es eL e(PCS) e(SCS) eF	16	09	40.0	-	-	-	-	0	
N8	18	ip is eF	19	18	44.0	+2	+4	-4	-	0	
N9	20	ep es eF	06	38	40.7	-	-	-	-	0	hinga-nada about the east 10K part of mijazaki pref; N 220 Z/31.8 H 60K

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No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
160	August 22	ep eS eF	09	02	20.7	-	-	-	-	0	
161	23	ep eS eF	14	03	34.9	-	-	-	-	0	the middle part of the R. Ise Naka; N33.7 E/34.4 H 20K.
162	27	ep eS eF	03	48	40.0	-	-	-	-	0	
163	31	ep eS eL e eF	16	12	20.2	-	-	-	-	0	
164	September 2	ep eS eF	20	23	13.9	-	-	-	-	0	South East 230K off Yakai Islands;
165	4	ip iS ME MN MZ eF	10	44	07.4	+9	+7	+12	-	0	the middle part of the Ehima pref; N33.6 E/32.9 H 20K.
166	8	ep iS MN MZ MZ eF	11	46	20.0	-	-	-	-	0	Uyo - Koda N33.7 E/32.7

No.	Date	Phase	Time(G.C.T)			Amplitude			Period	Scale	Remarks
			h.	m.	s	N	E	Z			
167	September 10	ep es eF	06	41	30.6 37.1 42.2	-	-	-	-	0	
168	12	ep es eF	02	49	06.1 44.9 03 01 29.9	-	-	-	-	0	the middle part of the river sho; N36+E, 137.0 H 60K (Toyama perf)
169	12	ep es eF	13	01	47.3 02 31.3 04 28.8	-	-	-	-	0	
170	12	ep es eF	13	16	30.3 17 13.8 19 28.8	-	-	-	-	0	
171	12	ep es eF	13	22	28.7 34.7	-	-	-	-	0	about Kōtō district
172	13	ep es eL eF	19	14	48.8 17 08.8 20.8	-	-	-	-	0	
173	14	ep es eF	10	48	47.7 49.2 49 01.7	-	-	-	-	0	
174	16	ep es eF	22	24	04.4 43.9 28 07.9	-	-	-	-	0	East South East - 120K off Yaku Islands;
175	19	ep es eF	22	37	42.1 44.1 38 42.1	-	-	-	-	0	



No.	Date	Phase	Time (G.C.T.)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
176	Sept 14	ep ex eF	09	49	47.8 45.8	-	-	-	-	0	
177	20	ep ex eF	20	32	32.7 33.2	-	-	-	-	0	
178	21	ep ex eL e eF	11	14	14.0 33.0 04.5 06.5 38.0	-	-	-	-	0	
179	22	ep ex eF	12	33	41.6 22.1 44.1	-	-	-	-	0	
180	23	ep ex eF	07	26	01.7 24.7 01.7	-	-	-	-	0	the low part of the River arita; N34/E134.3 H204
181	24	ip ix eF	14	00	27.4 29.9 14.9	+1	-3	+1	-	0	
182	27	ep i ex e(L) eF	19	11	06.6 24.1 14.6 26.1 04.0	-	-	-	-	0	
183	28	ep e ex eF	19	03	34.3 24.3 01.3 49.3	-	-	-	-	0	

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No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
186	Septen 30	ep	12	57	48.0	-	-	-	-	0	
		eS	12	02	20.4						
		eL		04	04.0						
		e		08	04.0						
		eH		26	47.0						
186	30	ep	14	07	18.4	-	-	-	-	0	
		eS			26.4						
		eH		09	44.4						

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Matsuyama Japan

From *Oct 4<sup>th</sup> 1942* to *NOV 30<sup>th</sup> 1942*

## Notations

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	No Feeling	Slight	Weak	Rather Strong	Strong	Very Strong	Rather Disastrous	Disastrous
Scale	0	I	II	III	III	V	VI	VII

Matsuyama 1942

No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s	N	E	Z			
187	06 +	ep es eL eH	22	16	44.6	-	-	-	-	0	
188	7	ep e e eH	12	28	16.2	-	-	-	-	0	
				31	10.2						
				32	40.2						
				46	11.2						
189	11	ep es eH	10	01	48.4	-	-	-	-	0	
				02	53.4						
					45.0						
190	14	ep es eL eH	00	12	27.2	-	-	-	-	0	
				13	47.7						
				14	24.2						
				19	14.7						
191	17	ep es eH	04	01	49.4	-	-	-	-	0	off the Sima Peninsula; N340 Z137.0
				02	20.0						
				04	01.0						
192	20	ep e e eH	14	32	00.0	-	-	-	-	0	
				34	42.4						
				35	44.0						
				41	30.0						
193	20	ep e e e eH	14	09	34.9	-	-	-	-	0	
				12	44.9						
				14	36.9						
				14	46.9						
				20	30.0						
194	22	ep es eH	12	34	06.4	-	-	-	-	0	Tokushima pref; N338 Z1338 H20K
					79.0						
					66.0						
				37	09.9						
195	24	ep es eH	03	33	40.8	-	-	-	-	0	the low part of the River Yoshino; N341 Z1344 H20K
					89.8						
				34	12.3						
196	24	ep es eH	09	07	45.0	-	-	-	-	0	
					44.4						
				09	49.4						

No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks	
			h.	m.	s.	N	E	Z				
197	Oct 26	ip	08	42	12.7	114	179	-73	-	0	80K south West Omarsahat N 34.0 E 130.0 H 24.0 K	
		is		43	04.2	-40	+81	-36				
		ME			10.2		483		4.5			
		MZ			11.2			237	4.0			
		MN			20.2		20.2		1.0			
		i		45		28.7						
		i		46		19.2						
		FF		18	02	44.2						
198	26	ep	13	22	46.5	-	-	-	-	0		
		es		24	17.0							
		EL		25	46.0							
		FF		34	39.0							
199	26	ep	14	32	22.0	-	-	-	-	0		
		es		34	42.0							
		EL		35	29.0							
		FF		41	39.0							
200	26	ep	14	48	48.6	-	-	-	-	0		
		es		50	14.6							
		EL		51	33.6							
		FF		16	07	38.2						
201	26	ep	14	44	29.7	-	-	-	-	0		
		es		47	38.2							
		EL		48	24.7							
		FF		16	07	38.2						
202	26	ep	18	04	21.5	-	-	-	-	0		
		es		06	37.5							
		EL		07	21.5							
		FF		31	37.5							
203	26	ep	19	21	43.3	-	-	-	-	0		
		es		23	10.8							
		EL		24	44.3							
		FF		34	37.3							
204	26	ep	20	29	10.7	-	-	-	-	0		
		es		32	10.7							
		EL			14.7							
		FF		41	36.7							



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No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s	N	E	Z			
205	Oct 26	ep	22	02	44.9	-	-	-	-	0	
		es		05	18.9						
		el			49.4						
		ef		14	34.9						
206	27	ep	03	19	42.8	-	-	-	-	0	
		es		21	48.8						
		el		22	44.3						
		ef		44	00.3						
207	28	ep	06	34	30.6	-	-	-	-	0	
		es		37	34.3						
		el		38	26.1						
		ef		40	10.6						
208	31	ep	16	39	40.4	-	-	-	-	0	
		es		41	43.4						
		el		42	39.9						
		ef		17	02	00.0					
209	Nov 2	ep	01	43	48.7	-	-	-	-	0	
		es		44	04.2						
		e			27.7						
		ef		49	19.7						
210	3	ep	06	33	12.8	-	-	-	-	0	
		es			14.8						
		ef		34	10.3						
211	4	ep	17	04	09.7	-3	-3	+3		0	Kamchatka
		epp		04	01.7						
		es		08	37.2						
		el		10	44.2						
		ME		12	49.7			3300	34		
		MN		14	17.7			2710	2.0		
		MZ		14	29.7			1800	2.0		
		ef		20	-	-					
212	4	ep	20	44	10.4	-	-	-	-	0	after check of no. 211
		es		48	39.4						
		el		21	00	40.4					
		ef		32	00.0						

No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
213	Nov 4	ep ex eF <sub>1</sub>	22	20	06.2	-	-	-	-	0	
				24	28.2						
				40	00.0						
214	4	ep ex eF <sub>1</sub>	23	34	24.9	+1	+1	-	-	0	
				38	47.6						
			24	-	-						
<del>214</del> 214	+	ep ex eF <sub>1</sub>	02	24	14.4	-	-	-	-	0	
					46.4						
				27	18.9						
216	+	ep i i i eF <sub>1</sub>	03	34	16.2	-	-	-	-	0	
				39	01.2						
					27.2						
					18.7						
				42	24.7						
217	+	ep i eF <sub>1</sub>	06	02	18.0	-	-	-	-	0	
				07	13.0						
				09	20.0						
				39	00.0						
218	+	ep eF <sub>1</sub>	13	12	03.3	-	-	-	-	0	
				32	47.3						
219	+	ep ex eF <sub>1</sub>	14	13	16.4	-	-	-	-	0	
					44.4						
				18	14.0						
220	+	ep ex eF <sub>1</sub>	14	13	10.7	-	-	-	-	0	
				18	20.2						
				14	09	41.0					
221	6	ep	19	40	-	-	-	-	-	0	
222	7	ep ex eF <sub>1</sub>	14	13	44.7	-1	-1	+1	-	0	
				18	01.7						
				23	-						

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No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s	N	E	Z			
223	NOV 7	ep ex eL e eH	22	10	13.6 18.6 27.6 37.6 —	-	-	+1	—	0	
224	8	ep ex eH	17	09	16.7 17.2 31.7	-	-	—	—	0	
224	8	ep ex eL eH	19	38	30.9 38.0 14.9 30.9	+	+	—	—	0	
226	8	ep ex e eH	23	31	13.4 17.4 17.0 30.0	—	—	—	—	0	
227	9	ep ex eH	00	27	29.7 37.7 30.0	+	+	—	—	0	
228	9	ep ex eH	04	40	21.4 30.9 49.0	—	—	—	—	0	
229	9	ep e eH	04	12	11.3 17.8 28.8	—	—	—	—	0	
230	9	ep ex eH	06	02	11.7 27.7 27.7	+	+	—	—	0	
231	9	ep e eH	14	28	20.9 42.4 20.9	—	—	—	—	0	
232	9	ep ex eH	14	34	20.9 36.9 20.9	—	—	—	—	0	

No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
233	NOV 10	ep epp es eH	01	00	300	-	-	-	-	0	
234	13	ep e es eL eH	08	04	11.3	+3	+3	-4	-	0	
234	13	e e e e eH	22	31	13.1	-	-	-	-	0	
236	14	ip is ME MN MZ eH	04	38	44.4	-3	-	-6	-	1	Bungo channel, N 33.3 Z 132.4 H 30K
237	14	ep es MN MZ MZ eH	14	00	46.8	-	-	-	-	0	the upper reaches of the River notu; N 31.2 Z 134.4 H 20K
238	16	ep es eL eH	04	47	10.6	-	-	-	-	0	
239	16	ep e es e eH	07	46	26.8	-	-	-	-	0	

Matsuyama 1952

No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s	N	E	Z			
240	Nov 17	ep	19	29	44.2	-	-	-	-	0	
		es		30	09.7						
		ef		32	44.7						
241	18	ep	08	18	49.3	-	-	-	-	0	
		e(pp)		20	00.3						
		es		23	04.3						
		eL		24	04.3						
		ef		24	-						
242	18	ep	08	47	42.2	+	-	-	-	0	
		e		48	44.2						
		es		49	42.2						
		ef		49	-						
243	18	ep	22	42	19.4	-	-	-	-	0	
		e			19.4						
		e		43	16.4						
		e		46	13.4						
		ef		49	00.0						
244	20	ip	23	03	44.0	+	+	-	-	0	
		is			46.0						
		MN		04	01.4				0.7		
		MZ			03.0				0.5		
		ef		06	30.0						
246	21	ep	18	20	14.9	-	-	-	-	0	
		es			21.9						
		ef		21	03.9						
247	22	ep	14	03	36.7	-	-	-	-	0	
		es		04	34.7						
		ef		11	29.2						
248	24	ip	02	17	39.8	+	+	+	-	0	
		is		19	10.3						
		ef		22	14.8						

about murato-misaki  
N. 33.3 Z. 134.1 H. 40K

No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
249	Nov 26	ep is e eF	04	22	38.7	-	-	-	-	0	about yusa. the south part of wakayama pref, N 34, Z 13, H 10K
250	27	ep es eF	13	22	09.1	-	-	-	-	0	Kumano - nada N 34, Z 13, H 20K
251	28	ip is ME MN ME eF	04	24	10.7	4	3	74			the middle part of the River Hino, (totatori pref), N 24, Z 13, H 40K
252	28	ep es e eF	04	44	13.1	-	-	-	-	0	
253	28	ep es eF	11	07	09.0	-	-	-	-	0	
254	29	ep es e eF	08	28	26.0	-	-	-	-	0	
255	29	ep is eF	14	20	13.2	-	1	-	-	0	
256	29 5 30	ep e i e eF	23	44	10.1	-	-	-	-	0	

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No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s.	N	E	Z			
247	NOV 30	ep ix eF	19	19	138 208 20 078	-	-	-	-	0	
248	30	ep ix eF	19	20	198 21 148 443	-	-	-	-	0	
249	Dec 2	ep ix i i eF	16	03	118 263 318 393 04 378	-	-	-	-	0	off the tosa Bay N 330 Z 1334
250	4	ep ix i eF	14	01	480 02 090 174 03 220	-	-	-	-	0	about estuary of the River Mimizu,
251	6	ip e(PP) e(PPP) i i epcs es eLg eF	10	49	131 12 161 131 13 366 14 216 14 471 16 136 20 02 041 41 -	-	-	-	-	0	
252	7	ep es eF	23	46	172 47 082 10 007	-	-	-	-	0	off the tozinto. N 364 Z 136.1 (shallow)
253	8	ep e e e eF	14	26	177 27 122 28 447 29 287 37 277	-	-	-	-	0	
254	9	ip ix MZ MZ eF	06	18	013 088 098 113 20 163	-	-	-	-	0	the upper reaches of the River yasino; N 32.9 Z 1334 H 10K.

No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s	N	E	Z			
264	NOV 11	ep	09	03	131	-	-	11	-	0	
		es		07	146						
		eL		09	436						
		eF		19	361						
266	17	ip	23	16	344	-	+3	-	-	0	
		e		17	364						
		e		18	339						
		e		19	419						
		e		24	144						
		es		26	429						
		eF		32	019						
267	18	ep	21	06	246	-	-	-	-	0	
		es		07	301						
		eF		09	486						
268	24	ep	08	41	291	-	-	-	-	0	
		i.			446						
		epp		43	246						
		ePPP		44	066						
		es		48	146						
		ss		41	276						
		eF		44	126						
269	24	ep	14	28	443	-	-	-	-	0	north north east, look of the nose N 29.0 E 130.0 H 100K
		e		29	408						
		es		30	038						
		eF		36	228						
270	24	ep	18	47	386	-	-	-	-	0	
		ePPP		49	221						
		es		44	041						
		ss		19	00	471					
		Lg		04	446						
		LR		08	446						
		eF		13	041						
271	24	ep	13	40	443	-	-	-	-	0	
		iS		40	443	-8	+4	-2			
		eF		42	043						



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No.	Date	Phase	Time(G.C.T)			Amplitude			Period s.	Scale	Remarks
			h.	m.	s	N	E	Z			
272	Nov 26	ep es eF	19	47	44.7 48 06.7 11.2	-	-	-	-	0	the upper reaches of the River arita; N34, E13, H10K
273	27	ep es eF	00	48	10.3 16.8 10 67.3	-	-	-	-	0	
274	27	ep epp es eF	01	31	14.4 43.4 33 23.0 37 36.4	-	-	-	-	0	
275	27	ep es eF	06	00	16.8 02 01.3 04 32.8	-	-	-	-	0	about the peninsula Izu;
276	28	ep es ME MN MZ eF	09	12	22.0 36.4 37.0 37.4 14 11.0	-	-	-	-	0	about the border of Simane and Yamaguchi pref.
277	28	ep es e eL eF	14	07	14.7 11 12.7 13 20.7 14 43.7 34 04.7	-	-	-	-	0	
278	29	ip es eF	08	08	18.2 19.4 09 23.7	-	13	12	-	0	
279	30	ep es eF	17	34	10.4 30.4 36 40.0	-	-	-	-	0	