



NAGASAKI, JAPAN.

SEISMIC BULLETIN

OF THE

NAGASAKI METEOROLOGICAL OBSERVATORY OF JAPAN

$\phi = 32^{\circ} 44' 03''$ $\lambda = 129^{\circ} 52' 31''$ $h = 130.6m.$

Lithologic foundation: Volcanic Agglomerate.

Instrument: Omori Horizontal Pendulum.

	Γ_0	\mathcal{E}	$\frac{r}{T_0^2}$	V
AN	20			20
AE	26			120
Az				

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			135° E				AN	AE	Az		
			h.	m.	s.		μ	μ	μ		
1	Jan. 3	P	8	29	09				36	Microseisms	
2	" "	P	10	18	44				26	do	
3	" "	P	11	48	13				35	do	
4	" "	P	13	27	32				15	do	
5	" "	P	13	30	43				18	do	
6	" "	P	16	09	56				18	do	
7	" "	P	9	13	56	$\frac{1}{2}$		-0.8	37	do	
		L	9	14	0.8	$\frac{1}{2}$		-48			
		F	9	14	48						
8	" 18	P	3	33	15				245	Faint record	
		L	3	33	48						
		M	3	33	58						
		F	3	34	56						
9	" 18	P	21	11	03.1		+ 20	+ 2	2378		
		L	21	15	16.6	14	- 350	- 33			
		M	21	15	24	15	+ 100				
		M	21	15	48	18		- 567			
		M	21	19	34	19		- 163			
		F	21	47	15						
10	" 19	P	11	53	17				19	Microseisms	
11	" "	P	14	30	35				18	do	
12	" "	P	16	46	36				79	do	
13	" "	P	16	47	44				18	do	
14	" 20	P	3	13	59				18	do	
15	" "	P	5	46	40				18	do	
16	" 23	P	10	53	49				74	do	
17	" 24	P	10	09	34				48	do	
		L	"	"	49						
		F	"	10	42						
18	" 28	P	13	09	34				3050		
		S	13	13	28	4		+ 4			
		L	13	15	30	18		- 8			
		M ₁	13	16	35	17		- 38			
		M ₂	13	18	14	15	+ 170	+ 67			
		M ₃	13	19	14	13		+ 83			
		F	14	58	42				48	Microseisms	
19	" 29	P	7	25	55					felt in Nagasaki	
		S	7	25	58.5	$\frac{1}{2}$		- 6			
		L	7	26	01.5	$\frac{1}{2}$		- 8	45	do	
		F	7	26	50						
20	" "	P	17	33	37						

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International
Seismological
Centre $\phi=32^{\circ} 44'03''$ $\lambda=129^{\circ}52'31''$ $h=130.6m.$

Lithologic foundation: Volcanic Agglomerate.

Instrument: Omori Horizontal Pendulum.

	To	$\bar{\sigma}$	$\overline{To^2}$	V
AN	16			20
AE	16			120
Az				

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AN	AE	Az		
39	Mar. 4	P	4	17	59				18	Microseisms	
40	" 7	P	18	50	35				18	do	
41	" "	P	18	59	20				18	do	
42	" 8	P	0	56	12				18	do	
43	" 8	P	23	52	48				59	do	
44	" 9	P	3	12	28				52	do	
45	" 9	P	18	02	53	$\frac{1}{2}$	- 15	- 16	27	do felt in Nagasaki & its neighbourhood	
		L	18	02	56.6	$\frac{1}{2}$	-375	-325		off the coast Ains (neck of Shimabara peninsula)	
		F	18	04	—						
46	" 9	P	18	20	28				18	do	
47	" 9	P	20	31	31				18	do	
48	" 10	P	2	14	31				18	do	
49	Mar. 11	P	0	09	30				52	do	
50	" "	P	13	14	00				110		
		L	"	"	15						
		F	"	"	35						
51	" 15	P	15	09	38				96		
		L	"	"	51						
		F	"	10	29						
52	" 16	P	13	28	52				141		
		L	"	29	11	4.5		+333			
		F	"	35	11						
53	" 16	P	23	47	59		± 00	- 2	4120		
		S	"	53	01						
		L	"	56	40						
		M	"	59	09	16.5	-600	-533			
		F	0	21	31						
54	" 17	P	17	02	27				46	Microseisms	
55	" 18	P	6	55	29				70		
56	" 20	P	23	35	55				10		
57	" 22	eP	17	52	08				5000 <	Distant earthquake	
		F	18	31	55						
58	" 25	P	6	02	10				15	Microseisms	
59	" 27	P	13	18	37				734		
		L	"	20	16	4		- 25			
		F	"	25	55						
60	" 28	P	10	51	25				10	Microseisms	
61	" "	P	11	55	05				10	do	
62	" "	P	20	24	25				10	do	
63	" 31	P	9	53	57				34	do	

N4

From to April 1925

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Instrument: Omori Horizontal Pendulum.

	To	\mathcal{E}	$\frac{r}{r_0^2}$	V
AN	20			16
AE	26			16
Az				

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AN μ	AE μ	Az -		
64	April 3	P	6	32	23				10	Microseisms	
65	" 4	P	4	20	55				18	do	
66	" 6	P	7	26	02				386		
		S	"	"	54	2	-	7			
		L	"	"	58	2	-	7			
		F	"	29	00						
67	" 6	P	9	32	25				85	Microseisms	
68	" 7	P	23	19	26				20	do	
69	" 8	eP	3	11	12				4350	Weak Δ ave	
		eL	3	19	57						
		F	3	50	28						
70	" 13	P	6	32	25				> 10	Microseisms	
71	" 13	P	6	39	49				> 10	do	
72	" 17	P	4	55	47			+ 10	1336		
		L	4	58	46	10		+ 29			
		M	4	59	58			-260 <		Needle off	
		C	5	07	44	11		+ 17			
		C ₁	5	08	22	12		+ 183			
		C ₂	5	09	40	11		+ 108			
		F	5	38	37						
73	" 18	P	3	54	56				20	Microseisms	
74	" 18	P	20	52	13				18	do	
75	" 19	P	22	58	55				18	do	
76	" 20	P	0	48	08.3			+ 10	623		
		L	0	49	32	7		- 100			
		F	1	01	30						
77	" 20	P	5	30	07				15	Microseisms	
78	" 20	P	15	17	59			+ 4	18	do, felt in Nagasaki	
		L	15	18	06.4		+ 210	+ 171		Class: (2)	
		F	15	20	45						
79	" 22	P	1	47	50				25	do	
80	" 22	P	22	13	22				38	do	
81	" 23	P	1	11	38	$\frac{1}{2}$		- 1	141	N component no record.	
		L	1	11	57	0.8		+ 8			
		F	1	13	35						
82	" 25	P	7	42	55				18	Microseisms	
83	" 29	P	5	35	37.4	$\frac{1}{2}$ >		+ 2	23	do, felt in Nagasaki	
		L	5	35	40.5	$\frac{1}{2}$ >		- 54		Origin in Amakusa Nada	
		F	5	36	46						

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	To	\mathcal{E}	$\overline{T_o}$	V
AN	16			20
AE	16			120
Az				

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AN μ	AE μ	Az μ		
84	May 1	P	9	15	49.5		+ 10	± 7	14	Tijiwa Nada felt in Nagasaki	
		L	9	15	51.4		+ 70	+ 24			
		F	9	16	38						
85	" 1	P	17	17	51	$\frac{1}{2}$		+ 2	267	Off the coast of Iyo	
		L	17	18	27	E 2,5	- 25	+ 16			
		F	17	32	40						
86	" 3	P	2	28	11	2	+ 2		4160		
		S	2	33	16	5	- 90				
		L	2	36	57	9	+ 10				
		M	2	58	57	7	- 100				
		F	3	11	28						
87	" 5	P	19	11	24	E 2	± 0	- 3	2420		
		L	"	15	44	N 14 E 10	+ 100	- 10			
		M ₁	"	17	06	N 11 E 18	+ 50	- 183			
		M ₂	"	21	04	N 17 E 12	- 110	- 75			
		M ₃	"	"	52	N 17 E 7	+ 400	+ 8			
		M ₄	"	25	37	N 13 E 13	- 15	- 52			
		F	20	09	35						
88	" 7	P	12	43	10				18	Microseisms	
		L	"	"	12.4	$\frac{1}{2}$		- 8			
		F	"	"	34						
89	" 11	P	16	26	19			24	do		
90	" 11	P	16	33	32			24	do		
91	" 16	P	17	30	52			18	do		
92	" 20	P	5	05	47			18	do		
93	" 20	eP	20	01	24				4226		
		S	"	07	24						
		L	"	10	55						
		M	"	12	45	7	+ 25				
		F	"	29	22						
94	" 21	P	7	50	49			18	Microseisms		
95	" 22	P	2	28	04	$\frac{1}{3}$	+ 5	+ 4	18	do, felt in Nagasaki	
		L	"	"	06.4	$\frac{1}{2}$	+ 8	+ 8			
		F	"	"	30						
96	" 22	P	18	42	37	5		- 1	2257		
		L	"	46	23	11		- 3			
		M	"	47	33	N 12 E 16	+ 12	+ 8			
		F	19	11	32						
97	" 23	P	11	10	59		- 0.8	- 1	500	A Violent Earthquake of Tajima, Origin in the North coast of Tajima	
		L	11	12	07	7	- 150	+ 71			
		M	11	12	38	15	-3550				
		F	11	44	20						

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AN	16			20
AE	16			120
Az				

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AN μ	AE μ	Az μ		
98	May 23	P	12	03	56				512	After Earthquake of The Tajima Earthquake	
		L	"	05	05	N 1 E 2	- 40	+ 16			
		M	"	"	19	3		+ 18			
		F	"	11	32						
99	" 24	P	12	52	40				178		
		L	"	53	04	2	+ 30	- 25			
		M	"	"	16	2	+ 25	+ 32			
100	" 26	P	1	23	29				504	After Earthquake of The Tajima Earthquake	
		L	"	24	36	2.5	- 10	- 4			
		M	"	"	48	13	+ 400	- 317			
101	" 26	P	14	28	44				74	Microseisms	
		L	"	"	59						
		F	"	29	19						
102	" 27	eP	0	39	49				1892	Distant, weak waves	
		eL	"	44	04						
		F	"	51	25						
103	" "	P	11	31	26				540	After earthquake of The of Tajima Earthquake	
		L	"	32	39	8	- 60	+ 50			
		M	"	32	49	8	- 125	+ 375			
104	" 28	P	1	36	49				178		
		L	"	37	13						
		F	"	"	43						
105	" "	P	11	35	11				22	Microseisms	
106	" "	P	12	00	13				34	do	
107	" "	P	14	34	18				34	do	
108	" "	P	16	08	41				34	do	
109	" 29	P	20	58	23				26	do	

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Az				

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks	
			135° E				AN	AE	Az			
			h.	m.	s.	s.	μ	μ	μ	km.		
110	June 1	P	7	23	51					15	Microseisms, Origin Tijiwa Bay.	
111	" 1	P	11	54	39					48	" " Sea of Amakusa.	
112	" 3	P	0	06	41					55	" " "	
113	" 3	P	13	40	18					4290	Faint record of distant quake registered.	
114	" 9	L	"	49	24					4270	do	
		F	14	11	20							
		eP	22	48	00							
		L	"	57	03	16	-	25				
		M ₁	23	00	34	19	-	100				
		M ₂	"	04	43	20	+	40				
115	" 10	M ₃	"	08	07	14	-	40		26	Microseism, Origin Tijiwa Bay.	
		F	"	51	42							
		P	10	05	38							
		P	15	46	25							
116	" 11	L	"	"	43	0,5		-	7	134	West part of Sea of Suwō.	
		M	"	"	51	0,6		-	8			
		F	"	48	37							
		P	17	17	54							
117	" 18	P	23	04	48				30	Microseism, Origin Tijiwa Bay.		
118	" 19	P	0	07	00				52	" Ariake Sea		
119	" 20	P	11	56	55				26	" Tijiwa Bay		
120	" "	P	15	26	45				20	" "		
121	" "	P	0	06	00				18	" "		
122	" 22	P	0	06	00					527	Probably after quake of Tajima Earth quake	
		L	0	07	11							
		M	0	07	18	1		-	8			
		F	0	08	52							
123	" "	P	2	44	36				60	Microseism, Ariake Sea.		
124	" 23	P	12	59	23	1		+	1	556	After quake of Tajima Earthquake	
		S	13	00	23	1		-	5			
		L	13	00	38	2		+	14			
		M	13	01	30	6		+	36			
		F	13	06	20							
125	" 27	P	2	27	50	1		+	1	223		
		S	2	28	15	1		+	4			
		L	2	28	20	2		-	18			
		M	2	28	24	2		-	18			
		F	2	32	15							
126	" 28	P	15	15	03	NE 5	+	3	+	1	400	Neighbouring of Eshima
		L	15	15	57	NE 8	+	60	-	45		
		M	15	16	28	NE 14	+	60	-	333		
		M	15	17	10	NE 13	+	700	-	8		
		F	15	35	00	NE 14						
127	" 30	P	10	32	38					22	Microseism, Tijiwa Bay.	

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AN	16			20
AE	16			120
Az				

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks	
			h.	m.	s.		AN	AE	Az			
128	1 July	P	13	10	01	$\frac{1}{3}$		—	1	30	Amakusa Nada felt in Nagasaki	
		S	13	10	03.4	$\frac{1}{3}$	+	10	—			4
		L	13	10	05.0	$\frac{1}{2}$	+	12	+			4
		F	13	10	45							
129	2 "	P	12	53	20				\pm 1	12	Microseism	
		L	12	53	21.6	$\frac{1}{3}$			\pm 2			
		F	12	53	33							
130	4 "	P	4	21	57		—	1	—	1	475	Tottori Province
		S	4	22	50	2.4	+	10	—	8		
		L	4	23	01	2.4	+	50	+	33		
		M	4	23	02	2.4	+	40	—	40		
		F	4	26	26							
131	" "	P	17	28	31				+	1	37	Microseism
		L	17	28	36	$\frac{1}{3}$			—	3		
		F	17	28	56							
132	7 "	P	1	48	57	1	—	1	—	1	616	Neighbouring Gifu
		L	1	50	20	N4 E2	—	10	+	4		
		M	1	50	51	4	+	15				
		M	1	50	58	2			+	8		
		F	1	56	02							
133	" "	P	11	29	44				+	2	18	Microseism
		L	11	29	46.4				+	4		
		F	11	30	02							
134	8 "	P	5	45	17				—	1	37	do
		L	4	45	22	$\frac{1}{3}$			+	15		
		F	5	46	00							
135	10 "	P	8	04	29				\pm	1	30	do
		L	8	04	33	$\frac{1}{3}$			—	10		
		F	8	04	58							
136	16 "	P	22	00	43				\pm	1	27	do
		L	22	00	46.6	$\frac{1}{2}$			+	8		
		F	22	00	09.0							
137	17 "	eP	12	23	28	2	+	1				Distant quake
		eF	12	37	38							
138	18 "	P	14	32	05				+	1	22	Microseism
		L	14	30	08	$\frac{1}{2}$			+	3		
		F	14	32	31							
139	28 "	P	21	36	05						36	do
		L	"	"	07				\pm 0.001			
		F	"	"	29							

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AE	16			120
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No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AN μ	AE μ	Az μ		
140	10 Aug.	P	9	37	15	$\frac{1}{2}$		+ 1		140	
		L	9	37	34	$\frac{1}{2}$		— 8			
		M	9	37	51	2.5		— 8			
		F	9	39	25						
141	13 "	P	7	24	13	$\frac{1}{3}$		+ 1		56	Micro.
		L	7	24	20.5	$\frac{1}{2}$		\pm 2			
		F	7	24	28						
142	" "	P	7	30	02	$\frac{1}{3}$		— 1		52	do
		L	7	30	09	$\frac{1}{2}$		\pm 2			
		F	7	30	32						
143	15 "	P	6	02	38	$\frac{1}{3}$		+ 1		20	do
		L	6	02	40.6	$\frac{1}{2}$		+ 1			
		F	6	02	53						
144	16 "	P	12	00	37	$\frac{1}{3}$		+ 1		7	do
		L	"	"	38	$\frac{1}{2}$		— 1			
		F	"	"	46						
145	19 "	eP	21	12	19					7665	A great earthquak in the far distance <i>let</i>
		L _N	21	30	01	10	+ 25				
		L _E	"	"	"	9		— 1			
		M _{1N}	"	33	12	14	— 80				
		M _{2N}	"	36	17	14	+ 275				
		M _{1E}	"	37	59	15		+ 22			
		M _{3N}	"	38	05	14	— 250				
		M _{2E}	"	39	49	19		+ 73			
		M _{3E}	"	44	21	12		— 22			
		C	"	56	10	10		— 4			
F	22	31	4								
146	23 "	P	6	08	35	$\frac{1}{3}$		+ 1		36	SW of Simabara Peninsula felt in all of the Peninsula.
		S	6	08	37.3	$\frac{1}{2}$	+ 30	— 8			
		I.	6	08	39.8	1	+ 50	— 36			
		F	6	09	40						
147	23 "	P	6	10	39	$\frac{1}{3}$	\pm 1	— 1		22	Micro.
		L	6	10	42	$\frac{1}{2}$		+ 2			
		F	6	11	07						

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	To	\mathcal{E}	$\frac{r}{To^2}$	V
AN	16			20
AE	16			120
Az				

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			135° E				AN	AE	Az		
			h.	m.	s.	s.	μ	μ	μ	km.	
148	Sept. 6	P	17	49	38			- 1		25	Local shock
		L	"	"	41.5			+ 8			
		C	"	"	50						
		F	17	50	02						
149	" 17	P	17	09	49	$\frac{1}{2}$	+ 35	+ 13		74	Amakusa Nada
		L	"	"	59	1	+ 07	- 113			
		C	"	10	24						
		F	"	12	36						
150	" 19	eP	16	45	21					119	
		L	"	"	37	1		+ 8			
		C	"	46	06						
		F	"	"	50						
151	" 19	P	18	22	48			\pm 1		119	
		L	18	23	04	1		- 2			
		M	"	23	11	1.5		- 3			
		C	"	"	36						
152	" 22	P	12	38	47	1		- 1		104	
		L	"	39	01	1		- 2			
		C	"	"	13						
		F	"	"	26						
153	" 24	P	11	16	40			+ 1		45	Local shocke
		L	"	"	46	1		- 2			
		C	"	"	52						
		F	"	17	04						
154	" 26	P	2	12	12	$\frac{1}{2}$		+ 1		14	do
		L	"	"	14	$\frac{1}{2}$		+ 2			
		C	"	"	22						
		F	"	"	28						
155	" "	P	2	17	51	$\frac{1}{2}$		\pm 1		30	do
		L	"	"	55	$\frac{1}{2}$		- 8			
		C	"	18	03						
		F	"	"	13						
156	" "	P	14	10	16						
		L	"	"	19						
		C	"	"	25						
		F	"	"	30						
157	" 29	P	14	33	08					67	do
		L	"	"	17	1		- 1			
		C	"	"	34						
		F	"	"	46						

NAGASAKI, JAPAN.

SEISMIC BULLETIN

OF THE

NAGASAKI METEOROLOGICAL OBSERVATORY OF JAPAN



$\phi=32^{\circ} 44'03''$ $\lambda=129^{\circ}52'31''$ $h=130.6m.$

Lithologic foundation: Volcanic Agglomerate.

Instrument: Omori Horizontal Pendulum.

	To	\mathcal{E}	$\frac{r}{T_0^2}$	V
AN	16			20
AE	16			120
Az				

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			135° E				AN	AE	Az		
			h.	m.	s.	s.	μ	μ	μ	km.	
158	Oct. 12	P	14	25	36					19	Local thocks
159	" 14	P	12	24	35						do
160	" "	P	17	15	55						do
161	" 16	P	12	05	17					18	do
162	" 17	P	0	05	32						do
163	" 20	P	15	15	35						do
164	" "	P	18	44	13		-7	+7		839	South Sea of Hachijo Is.
		L	"	46	55						
		M _E	"	"	08	3.6		-40			
		M _N	"	"	05	3.0	-90				
		C	"	48	18						
		F	"	52	36						
165	" 21	P	7	30	52						Local shocks
166	" "	P	15	6	33					71	do
167	" 24	P	8	48	27						do
168	" 26	P	4	45	42						do
169	" "	P	16	31	46						do
170	" "	P	22	42	34					48	do
171	" 27	P	7	59	14						do
172	" "	P	23	13	54						do
173	" 29	P	13	57	48						do
174	" 30	P	10	39	42						do
175	" "	P	23	42	10						do

		M ₃	"	38	59	14		+330			
		M	"	43	04	14		-400			
		C	22	13	45						
		F	23	23	20						
184	" 23	P	5	17	24					62	Felt in Nagasaki Sea of Amakusa Nada.
		L	"	"	32.5						
		F	"	"	58						
185	" 27	P	2	01	23	0.4	-2	-3		504	Origin Tajima
		L	"	02	31	3	+18	-7			
		M _N	"	"	37	2	-24	+13			
		M _E	"	"	47	2					
		F	"	06	00						

SEISMIC BULLETIN

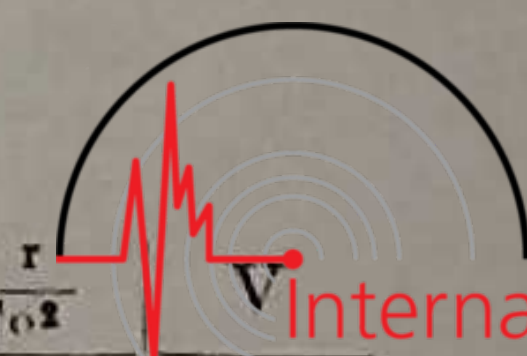
OF THE

NAGASAKI METEOROLOGICAL OBSERVATORY OF JAPAN

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	To	\mathcal{E}	$\frac{r}{T_{0.2}}$	V
AN	16			20
AE	16			120
Az				

International Seismological Centre

No.	Date	Phase	Time			Period	Amplitude			Δ	Remarks
			135° E				AN	AE	Az		
			h	m.	s.	s.	μ	μ	μ	km.	
176	Nov. 5	P	6	36	11	0.2		± 1		30	Local shocks.
		L	"	"	15	0.3		-3			
		F	"	"	30						
177	" 8	P	7	39	13	0.2		± 1		18	do
		L	"	"	15.4	0.3		-3			
		F	"	"	26						
178	" 9	P	10	28	48	0.2		-1		82	do
		\bar{P}	"	"	53	0.2		-2			
		L	"	"	59	0.3		+6			
		F	"	29	29						
179	" 9	P	18	41	49					30	do
		L	"	"	53	0.3		-2			
		F	"	42	06						
180	" 10	P	22	57	22	3	-12	+2		4630	
		PR,	"	58	43	3	-60	+2			
		S	23	03	09	10	+90	-2			
		L	"	07	20	14	-210	-3			
		M ₁	"	11	02	18	-900	+150			
		M ₂	"	13	39	18	-1475	-433			
		M ₃	"	16	24	17	+1750				
		M ₄	"	19	25	17	+1425				
		C	"	22	33	16	-150				
		C ₁	"	24	39	17	-425				
		C ₂	"	27	22	15	-450				
F	0	54	06								
181	" 12	P	12	08	34	$\frac{1}{3}$		-1		67	Local shocks
		P	"	"	41.5	$\frac{1}{3}$		+1			
		S	"	"	45	1		-2			
		F	"	"	52						
182	" 12	P	12	10	31	$\frac{1}{3}$		-1		67	do
		P	"	"	39.5	$\frac{1}{3}$		+1			
		S	"	"	42	1		-2			
		F	"	"	51						
183	" 13	P	21	19	32					3100	
		S	"	23	19	11		-400			
		L	"	25	36	22		-300			
		M ₁	"	29	22	20		+500			
		M ₂	"	32	12	14		-450			
		M ₃	"	38	59	14		+330			
		M	"	43	04	14		-400			
		C	22	13	45						
F	23	23	20								
184	" 23	P	5	17	24					62	Felt in Nagasaki Sea of Amakusa Nada.
		L	"	"	32.5						
		F	"	"	58						
185	" 27	P	2	01	23	0.4	-2	-3		504	Origin Tajima
		L	"	02	31	3	+18	-7			
		M _N	"	"	37	2	-24	+13			
		M _E	"	"	47	2					

NAGASAKI, JAPAN.

SEISMIC BULLETIN

OF THE

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Lithologic foundation: Volcanic Agglomerate.

Instrument: Omori Horizontal Pendulum.

	To	\mathcal{J}	$\frac{r}{T_0^2}$	V
AN	16			20
AE	16			120
Az				

No.	Date	Phase	Time		Period	Amplitude			Δ km.	Remarks
			135° E			AN	AE	Az		
			h	m. s.	s.	μ	μ	μ		
186	1 Dec.	eP	2	47 24					727	
		S	"	48 50	2	+10	-4			
		L	"	49 02	$\frac{N^3}{E^4}$	+17	+10			
		M	"	49 28	$\frac{N^4}{E^5}$	+30	-23			
		C	"	52 01						
		F	3	02 40						
187	5 "	\bar{P}	13	25 33	0.2		-1		59	Local shocks.
		\bar{S}	"	" 41	0.3		-1			
		F	"	26 07						
188	6 "	\bar{P}	10	59 17	0.2		+2		22	Ditto.
		\bar{S}	"	" 20	0.3		-8			
		C	"	" 28						
		F	"	" 45						
189	" "	\bar{P}	11	04 28	0.2		+1		52	Ditto.
		\bar{S}	"	" 35	0.3		+2			
		F	"	" 49						
190	" "	\bar{P}	14	38 05	0.2		-1		26	Ditto.
		\bar{S}	"	" 08.6	0.3		+2			
		F	"	" 24						
191	" "	\bar{P}	21	43 44	0.2		+1		25	Ditto.
		\bar{S}	"	" 47.4	0.2		-5			
		F	"	44 04						
192	8 "	\bar{P}	16	30 02	0.2		-1		22	Ditto.
		\bar{S}	"	" 05	0.2		-2			
		F	"	" 15						
193	" "	\bar{P}	16	30 26	0.2		+1		22	Ditto.
		\bar{S}	"	" 29	0.2		-1			
		F	"	" 30						
194	9 "	P	16	08 26			-1		119	
		L	"	" 42	0.3		-6			
		C	"	" 54						
		F	"	09 28						
195	22 "	eP	14	19 56						
		S	"	20 53	$\frac{N^5}{E^6}$	-40	+7			
		L	"	21 17	$\frac{N^{10}}{E^6}$	+250	-8			
		MN	"	22 01	13	+330				
		ME	"	23 36	10		+108			
		C	"	25 11						
196	28 "	P	22	10 22	$\frac{1}{3}$		+1		67	Local shocks.
		S	"	" 31	$\frac{1}{3}$		-2			
		F	"	" 45						