No 1

January 1923

NAGASAKI, JAPAN.

SEISMIC BULLETIN

OF THE

NAGASAKI METEOROLOGICAL OBSERVATORY OF JAPAN.

φ = 32°44′03″ λ = 129°52′31″ h = 130.6m.

Instrument: Omori Horizontal Pendulum. Underground: Volcanic Agglomerate.

	$\frac{T_0}{s}$	ϑ	$\frac{r}{T_0}$	V
AN:	20			20
AE:	26			120
AZ:				

No.	Date	Phase	Time 135° E	Period	Amplitude A_N	Amplitude A_E	Amplitude A_Z	△	Remarks
			h. m. s.	s.	μ	μ	μ	km.	
28	Jan. 3	P	7 39 35		± 00	— 1		18	After shock of Chijiwa Bay earthquake
		L	7 39 37,5	1/3	+ 50	— 33			Class: (1)
		M	7 39 40	1/3	+ 60	— 66			No. 1–27, Ditto no sense
		F	7 45 36						No. 29–37, do, no sense
38	,, ,,	P	19 54 10						Ditto class: (1)
39	,, ,,	P	22 57 19					13	Ditto class: (1)
		L=M	22 57 20.5		± 24	± 25			No. 40–45, do, no sense
46	,, 4	P	10 27 57					27	Ditto class: (1)
		L	10 28 00,6						No. 47–54, do, no sense
		M	10 28 05					28	Ditto class: (1)
55	,, 5	P	18 38 18			+ 2			No. 56–147, do, no sense
		L	18 38 21,7			— 8		220	North Hiuga Nada
		P	21 24 47		± 00	— 10			No. 149 An after shock
148	,, 11	L=M	21 25 14	2 3	+ 125	+ 58			Chijiwa Bay earthquake
		F	21 32 22					220	North Hiuga Nada
150	,, 12	P	0 57 23		± 00	— 7			No. 151–175 Chijiwa Bay after shock, no sense
		L=M	0 57 50		— 40	+ 19		18	After shock of Chijiwa Bay earthquake
		F	1 1 58						No. 177–182, do, no sense
176	,, 13	P	19 38 34			— 12		27	Ditto class: (1)
		L	19 38 36,4		± 00	+ 10			No, 184 187 do, no sense
183	,, 14	P	12 04 30		+ 75	— 64			Ditto class: (1)
		L	12 04 33,5			+ 8			No. 189–210 do, no sense
	,, ,,	P	16 52 43			± 70		28	Ditto class: (1)
		L	16 52 46			+ 1			No. 212–227 do, no sense
211	,, 17	P	18 17 20,2			± 25		26	Ditto class: (1)
		L	18 17 23,9			— 8			No. 229–235 do, no sense
228	,, 19	P	14 13 13			+ 120			Ditto class: (1) Twin shock
		L	14 13 16,6					38	No. 237–240 do, no sense
236	,, 20	P	5 41 35,6						Ditto class: (1)
241	,, 21	P	4 12 37.1			— 8		18	No. 242–250 do, no sence
						— 4		26	Ditto class: (1)
251	,, 22	P	9 49 53			— 25			No. 252–278 do, no sense
		L	9 49 56.5		—52			26	Ditto class: (1)
279	,, 26	P	14 54 28			± 37			No. 280–301, do, no sense
		L	14 54 31,5		± 75			15	Ditto class: (1)
302	,, 28	P	1 35 44			± 20			No. 303 do, no sense
		L	1 35 45,8		± 20			18	Ditto class: (1)
304	,, 28	P	2 50 15			± 25			No. 306–306 do, no sense
		L	2 50 17,4		± 25			19	Ditto do, no sense
307	,, 28	P	12 27 35			+ 66			No. 308–330 do no sense
		L	12 27 37 5		± 100				The same shocks

No. 2 Feb. ~~March~~ 1923

NAGASAKI, JAPAN.

SEISMIC BULLETIN

OF THE

NAGASAKI METEOROLOGICAL OBSERVATORY OF JAPAN.

φ=32° 44′03″ λ=129°52′31″ h=130.6m.

Lithologic foundation : Volcanic Agglomerate.

Instrument: Omori Horizontal Pendulum.

	T_o	$\mathcal{J}$	$\frac{r}{T_o^2}$	V
A_N	20			20
A_E	26			120
A_Z				

No.	Date	Phase	Time 135°E h. m. s.	Period	Amplitude A_N μ	Amplitude A_E μ	Amplitude A_Z μ	Δ km.	Remarks
									After shock of Chijiwa Bay Earthquake. no sense
331	Feb 1	P	20 41 41						No- 332—334 do
335	,, ,,	P	5 10 59						Ditto class : (1)
338	,, 2	P	14 13 45					3660	No. 336—37 Do. n_o sense
		L	14 21 16.5						
		M	14 29 18	18		+2500			
		F	15 33 05						No. 339—341 Chijiwa after shock
342	,, 4	P	1 07 56					2700	
		L	1 13 02						
		M_1	1 14 17	18	−1250				
		M_2	1 20 15	19	−4500				
		M_3	— — —						Sheets off at 1h 22m 27s
									No. 343—360 Chijiwa after shock no sens
361	,, 9	P	1 45 28		+25	+ 4		<15	Chijiwa after shock
		L	1 45 29			− 100			class : (2)
		M	1 45 32		+500	− 300			
		C	1 45 39						
362	,, ,,	P	9 59 42					15	Ditto class : (1)
		L	9 59 44		±48	±44			No. 363—382 do. no sense
23	,, 14	P	4 04 00					15	Ditto class : (1)
		L=M	4 04 02		−80				
384	,, ,,	P	7 11 49					15	Ditto class : (1)
		L=M	7 11 51		−18				No. 385—401 do. no sense
								18	Ditto class : (1)
402	,, 24	P	9 52 54					18	Ditto class : (1)
463	,, ,,	P	16 40 52					4860	
		L	16 51 26	26		+ 300			
		M_1	16 54 25	21		− 500			
		M_2	16 56 42	20		− 660			Chijiwa after shock
		M_3	16 58 39	19		−1150			class : (1)
		F	18 00 5						No. 405—416 do. no sense
404	,, 25	P	15 53 07						

No. 3 March 1923

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Lithologic foundation : Volcanic Agglomerate.

Instrument: Omori Horizontal Pendulum.

	T_o	$\mathcal{J}$	$\frac{r}{T_o^2}$	V
A_N	20			20
A_E	26			120
A_Z				

No.	Date	Phase	Time 135°E h. m. s.	Period	Amplitude A_N μ	Amplitude A_E μ	Amplitude A_Z μ	Δ km.	Remarks
									No. 417—425 Chijiwa after shock, no sense
426	Mar. 2	P	2 33 25			+ 1		19	Ditto c'oss : (1)
		L	2 33 27.5			−40			No. 427—429 do.no sense
430	„ 3	P	1 54 34					2630	
		L	1 59 26		−75	+ 8			
		F	2 36 20						No. 431—433 do. no sense
434	„ „	eP	19 26 33					870	
		eL	19 28 30						No. 435—465 do. no sense
466	„ 18	P	8 16 20			+ 8		18	Ditto class : (1)
		L	8 16 22.4		±25	±15			No. 467—486 do
472	„ 20	P	13 33 56			— 8		22	no sense
		L	13 33 59			±18			
479	„ 21	P	23 05 20			— 1		22	
		L	23 05 23			— 7			
487	„ 23	P	22 30 53.4			+ 2		18	Ditto class. (1)
488	„ 24	P	21 45 25			— 1		3940	
		S ?	21 50 02	15	−500	−720			
		L ?	21 54 05	19	+900	−300			Both comp. sheets off
		M	21 56 22	19		−1700<			No. 489 is Chijiwa after shock no sense
		F	23 1 30						
943	„ 27	P	1 29 04					15	Ditto cass : (1)
		L	1 29 06						
491	„ „	P	1 45 05					22	Ditto class : (1)
		L	1 45 08						No. 492—495 do. no sense
496	„ „	P	22 17 26					18	Ditto class. (1)
497	„	P	22 20 30					18	Ditto class : (1)
506	31	P	8 24 54					18	No. 498—505 do. no sense
									Ditto class ; (1)

No. 4 From 31 Mar. to 30 to April 1923

NAGASAKI, JAPAN.

SEISMIC BULLETIN

OF THE

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Instrument: Omori Horizontal Pendulum.

	T_o	$\mathcal{E}$	$\frac{r}{T_o^2}$	V
A_N	20			20
A_E	26			120
A_Z				

No.	Date	Phase	Time	Period	Amplitude			Δ	Remarks
					A_N	A	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
507	Mar. 31	P	16 49 56					18	No. 507—511 After shock of Chijiwa Bay eathquak, unfelt
508	April 1	P	7 40 26					<15	
512	„ 3	P	5 29 07					178	
		L	5 29 31						
		F	5 34 54						
									No. 513—535 After shock of Chijiwa Bay eathquak, unfelt
536	„ 17	P	10 28 40			+ 2		89	
		L	10 28 52	1.2		— 17			
		M	10 28 53	1.2		— 17			
		F	10 31 35						
537	„ 17	P	10 32 07					89	
		L	10 32 19						
		F	10 32 48						
538	„ 18	P	10 05 41					89	
		L	10 05 53						
		F	10 06 52						
539	„ 19	P	18 49 31						After shock of Chijiwa Bay earthquake, unfelt
540	„ 20	P	5 29 06					37	Ditto
		L	5 29 12						
541	„ 21	P	7 34 59						Ditto
542	„ 22	P	14 13 12					15	Ditto
543	„ 22	P	16 16 02					18	Ditto Felt in Nagasaki and its neigh bourhood. class :(1)
		L	16 16 04,5			—17			
544	„ 23	eP	12 16 11					2300	
		eS	12 17 36						
		L	12 20 14	15	—600	—283			
		M	12 21 03	15	—3850				Sheets off on E Compenent
		F	12 50 45						
545	„ 24	P	11 59 09					<15	No. 545—552 After shock of Chijiwa Bay earthquake, unfelt.
552	„ 30	P	16 31 02					21	

No 5 From to May 1923

NAGASAKI, JAPAN.

SEISMIC BULLETIN

OF THE

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Lithologic foundation : Volcanic Agglomerate.

Instrument : Omori Horizontal Pendulum.

	T_0	$\mathcal{E}$	$\frac{r}{T_0^2}$	V
A_N	20			20
A_E	26			120
A_Z				

No.	Date	Phase	Time	Period	Amplitude A_N	Amplitude A_E	Amplitude A_Z	△	Remarks
			h. m. s.	s.	μ	μ	μ	km.	
553	May 1	P	11 59 50					<15	No. 553—560 are after shocks of Chijiwa Bay earthquake, unfelr, Distance less than 15 Km.
561	,, 4	P	1 26 39					35	After shock of Chijiwa Bay earshquake. No. 562 tne same.
563	,, 5	P	0 33 44					15	Ditto.
564	,, 5	eP	1 35 58						
		M	2 03 20	12		−100			Distant earthquake.
		F	2 12 00						
565	,, 5	P	14 49 00					26	After shock of Chijiwa Bay earthquake. No. 566 the same
567	,, 7	P	11 37 45.3	< ½	+ 15	+ 25		18	Ditto, felt in Nagasaki & Shimabara Peninsula. Glass: (2)
		L	11 37 47.6	½	+ 252				
		M	11 37 47.8	½	+ 390				
		F	11 41 50						No. 568—580 do, No. 574 felt in Nagasaki, Distance 18 k.m.
581	,, 18	P	16 57 24					260	
		L	16 58 00						
		F	16 59 26						
582	,, 18	P	21 22 12					18	After shock of Chijiwa Bay earthquake No. 583—587 do, distance 15 km.
588	,, 21	P	3 15 26					18	Ditto
589	,, 22	P	0 17 13		− 1	+ 2		18	Ditto. felt in Nagasaki, Class: (1)
		L	0 17 15.4		+ 60	+150			No. 590—595 do, unfelt
		F	0 17 35						
596	,, 25	P	2 13 14					18	Ditto. felt in Nagasaki. Class: (1)
		L	2 13 46.4		− 40	− 25			No. 597—598 do, unfelt.
		F	2 14 29						
599	,, 26	P	12 32 56		+140	+ 17		18	Ditto. felt in Nagasaki Class: (2)
		L	12 32 58.3		?	−270			No. 600—606 do, unfelt.
		F	12 36 57						
607	,, 31	P	15 06 49					15	Ditto felt in Nagasaki, Class: (1)

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Lithologic foundation : Volcanic Agglomerate.

Instrument: Omori Horizontal Pendulum.

	T_0	ϑ	$\frac{r}{T_0^2}$	V
A_N	20			20
A_E	26			120
A_Z				

No.	Date	Phase	Time	Period	Amplitude A_N	Amplitude A	Amplitude A_Z	Δ	Remarks
			h. m. s.	s.	μ	μ	μ	km.	
610	June 2	P	2 27 01					1150	Off the coast of Boso Peninsula
		L	2 29 36	6					
		ME	2 31 21						
		MN 1	2 31 19	14	+3700				
		MN 2	2 33 06	14	+1600				
		MN 3	2 34 47	12	—1600				
		C	2 39 11	11	+ 300				
		F	3 05 48						
611	„ 2	P	5 18 06						
		L	5 20 41					1150	Probably the same of Former earthquake
		ME	5 21 31			>— 983			
		MN 1	5 21 48	14	+1300				
		MN 2	5 22 41	13	+ 800				
		MN 3	5 23 36	12	+ 700				
		C	5 24 53	12	— 200				No. 612-614, after shock of Chijiwa Bay earthquake. unfelt.
		F	5 39 25						
615	„ 7	eP	2 39 14					1520	Fatint record of a distant earthquake registered.
		eL	2 42 39						
		eF	2 51 58						No. 616-619 chijiwa Bay earthquake. unfelt.
620	„ 15	P	11 58 30					215	Faint record
		L	11 58 59						
622	„ 22	eP	15 52 29					3080	No. 621 chijiwa Bay earthquake Not discernible on P & L.
		eL	15 58 30						
		MN 1	16 01 11	16.5	+4500				
		ME 1	16 01 11	19		+ 825			
		ME 2	16 03 35	17		>— 920			
		MN 2	16 06 16	13	+2600				Sheets off on E comp.
		C	16 10 41						
		F	16 44 30						No. 623-627 chijiwa Bay earthquake, unfelt
628	„ 29	eP	19 49 32					900	
		L	19 51 29						
		F	19 53 30						
629	„ 29	eP	19 55 29					900	
		L	19 57 27						
		M	19 57 30						
		F	20 01 10						No. 630-631 chijiwa Bay earth quake

No 7 From to 31 July 1923

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SEISMIC BULLETIN

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	T_o	$\mathcal{E}$	$\frac{r}{T_o^2}$	V
A_N	20			20
A_E	26			120
A_Z				

No.	Date	Phase	Time 135° E h. m. s.	Period s.	Amplitude A_N μ	Amplitude A μ	Amplitude A_Z μ	Δ km.	Remarks
632	July 2	P	2 14 43					18	Microseisms in Chijiwa Bay
633	,, 2	P	11 34 37					1500	Weak waves
		L	11 37 58						
		F	11 56 17						
									No, 634—640; Microselsms in chijiwa Bay
641	,, 11	P	19 31 33					180	Weak Waves
		L	19 31 43						
		F	19 32 30						
642	,, 13	P	9 29 57					15	Chijiwa Bay Earthquake, Felt in Nagasaki, Class:(1)
		L	9 29 59			— 25			
		C	9 30 04						
		F	9 30 53						
643	,, 13	P	20 14 07		+ 250	— 96		220	Epicenter; neighbouring Tanegashima off the coast of South Kiushu
		L	20 14 37	4.1	— 800	— 900	by Imamura Strong motion Seismograph V=2.T_o=3		
		M	20 15 07	6.8	+1500	—2500			
		C	20 16 06	6.5	— 800	+1100			
		F	20 23 55						
644	,, 14	P	8 56 50					220	Ditto
		L	8 57 20	5	+ 200	+ 58			
		M	8 57 56	7	—1050	—			
		F	9 07 30						
									No,645; Micoseisms in chijiwa Bay
646	,, 18	P	1 47 18					220	Epicenter; neighbouring Tanegashima
		L.	1 47 48						
		F	1 50 50						
									No, 647—649; microseisms in Chijiwa Bay
650	,, 21	P	1 51 16					220	Epicenter; neighbouring Tanegashima
		L	1 51 48						
		F	1 56 45						
651	,, 22	P	3 27 35					220	Ditto
		L	3 28 05						
		F	3 29 50						
									No. 652—664; Microseisms in Chijiwa Bay

No 8 August 1923

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Instrument: Omori Horizontal Pendulum.

	T_0	$\mathcal{D}$	$\frac{r}{T_0^2}$	V
AN	20			20
AE	26			120
AZ				

No.	Date	Phase	Time 135° E	Period	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
			h m. s.	s.	μ	μ	μ	km.	
665	Aug. 1	P	10 23 35					< 15	Epicenter : Chijiwa Bay,
666	,, 1	P	15 38 07					220	Probably Tanegashima.
		L	15 38 37	1.5		— 3			
		F	15 39 45						
667	,, 1	P	15 47 49					220	Ditto.
		L	15 48 29	1.5		+ 2			
		F	15 49 24						
668	,, 1	P	22 34 49					220	Ditto.
		L	22 35 20	2.0		+ 3			
		F	22 37 32						No. 669-678, Chijiwa Bay Earthquake.
679	,, 12	eP	15 02 11					237 ?	Not discernible on P.
		L	15 02 43						
		M	15 03 07	3		— 17			
		F	15 09 10						
680	,, 12	P	15 10 51					267	
		L	15 11 27	5	+ 100	+ 292			
		ME	15 11 32	12		— 733			
		MN	15 11 32	5	+ 200				
		ME	15 11 56	8		— 266			
		MN	15 11 56	12	+ 650				
		FE	15 27 58						
681	,, 12	P	19 07 48					1100	
		S	19 09 22						
		L	19 10 15						
		M	19 11 25	15		— 133			
		F	19 28 38						No. 682-683, Chijiwa Bay Earthquake.
684	,, 17	P	1 05 24					220	Tanegashima, weak waves.
		L	1 05 54						
		F	1 27 50						No. 685-691, Chijiwa Bay Earthquake
692	,, 28	P	17 12 13	<0.5	+ 40	± 10		< 10	Chijiwa Bay, felt in Nagasaki
		M	17 12 14.2	<0.5	+ 35				
		C	17 12 19						
		F	17 12 37						

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	T_o	$\mathcal{E}$	$\frac{r}{T_o^2}$	V
AN	20			20
AE	26			120
AZ				

°Mark on P shows observation by Imamura's instrument T_o=3 V=2

No.	Date	Phase	Time 135° E	Period	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
			h m. s	s.	μ	μ	μ	km.	
693	Sept. 1	°P	12 00 30					930	A Violent Earthquake in
		L	12 02 33						Sagami Nada, great
		MI	12 03 09	6.5	−4300	−1300			damage has been done.
		ME	12 03 56	13.0		−1900			
		MN	12 03 56	6.5	−2500				F lost by next Earthquake.
		M3	12 05 23	13.0	−1250	−3500			
694	„ 1	°P	12 40 58					930	After Earthquake in Sagami
		L	12 43 01						Nada.
		M	12 43 58		−250	+400			F : lost by next Earthquake.
695	„ 1	°P	12 48 48					900	Ditto
		L	12 50 49						
		M	12 52 21		+750	−600			F : lost by next Earthquake.
696	„ 1	P	13 33 20					850	Ditto
		L	13 35 15						
		M	13 35 28			−23			F ; lost by next Earthquake.
697	„ 1	P	14 24 29					820	Ditto
		L	14 26 20						
		MN	14 27 42	14.0	−200				F : 14h 40m 40S
		ME	14 27 42	17.0		−380			
698	„ 1	P	15 21 32					820	Ditto
		L	15 23 23						F : 15h 37m 22S
		M	15 24 45	5.0		+21			
699	„ 1	°P	16 40 00					1000	Ditto.
		L	16 42 15						F : 17h 14m 05S
		M	16 42 35	12.0	+300	−200			
700	„ 2	°P	11 48 45					830	Ditto
		L	11 50 37	4.0	−500	+340			
		M1	11 52 02	16.0	+1200	−1500			F : 13h 04m 38S
		M2	11 53 00	8 0	+2000	−500			
701	„ 2	P	18 29 02					900	Ditto
		L	18 31 05						
		MN	18 35 00	13.0	+1300				F : lost by nest Earthquake.
		ME	18 35 00	16.0		−750			
702	„ 2	P	18 50 51					1030	Ditto
		L	18 53 10						
		M	18 54 08	7.0		−10			F : 19h 00m 58S

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AN	20			20
AE	26			120
AZ				

No.	Date	Phase	Time 135° E h	m.	s.	Period s.	Amplitude AN μ	AE μ	AZ μ	Δ km.	Remarks
703	Sept. 2	P	22	11	00					940	After Earthquake in Sagami
		L	22	13	07						Nada.
		M	22	13	40	10.(	—150	—150			F : 22h 25m 30S
704	„ 2	P	23	18	20					910	Ditto
		L	23	20	27						
		M	23	20	41	2.(		+17			F : 23h 26m 25S
705	„ 3	eP	19	25	28					900	Disso
		L	19	27	29						F : 19h 29m 40S
											No. 706 : local shocks at Nagasaki
707	„ 6	P	3	31	55					930	after earthquake in Sagami Nada.
		L	3	34	00						F : 3h 41m 25S.
											No. 708 : local shock at Nagasaki.
709	„ 8	P	0	21	45					220	Weak waves
710	„ 8	P	2	36	57					220	Ditto
711	„ 8	P	18	10	33					930	After earthquake in Sagami Nada
											No. 712-715 : local shocks at Nagasaki
716	„ 10	P	4	13	05					900?	Probably Sagami Nada
											Small amplitude, F : 4,h21,m35s
717	„ 10	P	6	46	13					10	Local shock
718	„ 10	eP	7	09	18					5000	Distant earthquake
		eL	7	24	08						
		M	7	26	58	14.(	+1100				
											No. 719-724 : local shock
725	„ 17	P	8	00	41					193	
		L	8	01	07						F : 8h03m30s
726	„ 17	eP	12	41	33					>900	Probably Sagami Nada
727	„ 17	eP	16	3-	—					>1000	Distant
		M	16	42	39	15.(	—25				No. 728-730 : local shock
731	„ 22	P	14	28	43					80	
											F : 14h29m03s
732	„ 23	eP	6	14	25					>2500	Small amplitude weak weves.
733	„ 23	eP	12	42	54					60	Sma'l amplitude
											No. 734-736 : local shock
737	„ 26	P	17	25	37					970	After earthquake in Sagami Nada.
		LE	17	27	48	7.(		+25			
		LN	17	27	48	6.0	+40				
		ME	17	28	39	13.(		—900			FE : 17h58m46s
		MN	17	28	39	16.(	—2900				FN : 18h01m57s
		ME	17	29	41	12.(		—500			
		MN	17	29	41	16.0	—3850				
738	„ 26	P	20	00	22					≥220	No. 739-742 : local shock

Form 1 to 31 Oct. 1923

NAGASAKI, JAPAN.

SEISMIC BULLETIN

OF THE

NAGASAKI METEOROLOGICAL OBSERVATORY OF JAPAN.

φ=32° 44′03″ λ=129°52′31″ h=130.6m.

Lithologic foundation : Volcanic Agglomerate.

Instrument: Omori Horizontal Pendulum.

	T_o	ε	$\frac{r}{T_o^2}$	V
AN	20			20
AE	26			120
AZ				

No.	Date	Phase	Time 135° E			Period	Amplitude			Δ	Remarks
							AN	AE	AZ		
			h	m.	s.	s.	μ	μ	μ	km.	
743	Oct 1	P	8	22	07					18	Microseisms
744	„ 3	P	23	22	08					160	
		L	23	22	29						
		F	23	24	58						
745	„ 4	P	0	56	08					70	
		L	0	58	17						
		M	0	59	19	13.0		+158			
		F	1	10	50						
746	„ 4	P	17	05	31					37	Microseisms
747	„ 7	P	12	35	55					2900	
		L	12	41	27						
		M	12	45	11	21.0		−933			
		F	13	16	15						
748	„ 11	P	17	21	36					210	
		L	17	22	04						
		F	17	24	25						
749	„ 15	P	17	08	41					15	Microseisms
750	„ 15	P	24	34	43					10	Ditto
751	„ 16	P	12	34	44					20	Ditto
752	„ 16	P	18	13	29					20	Ditto
753	„ 19	P	23	20	20					22	Ditto
754	„ 20	P	7	25	53					10	Ditto
755	„ 21	P	12	23	20					20	Ditto
756	„ 26	P	7	22	23					18	Ditto
757	„ 27	P	7	25	54					10	Ditto
758	„ 27	P	15	27	34					10	Ditto
759	„ 27	P	17	35	58					10	Ditto
760	„ 29	P	6	52	13					20	Ditto
761	„ 29	P	21	59	20					10	Ditto
762	„ 30	P	6	26	13					20	Ditto

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NAGASAKI, JAPAN.

SEISMIC BULLETIN

OF THE

NAGASAKI METEOROLOGICAL OBSERVATORY OF JAPAN.

φ=32° 44′03″ λ=129°52′31″ h=130.6m.

Lithologic foundation : Volcanic Agglomerate.

Instrument: Omori Horizontal Pendulum.

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

No.	Date	Phase	Time 135° E h m. s.	Period s.	Amplitude AN μ	AE μ	AZ μ	△ km.	Remarks
763	Nov. 3	P	6 15 53						Distant Earthquake
		F	7 30 +						
									No. 764 Microseisms
765	„ 4	P	1 20 06					378	
		L	1 20 57			+467			
		M	1 21 57	17	+3800				
		F	1 53 40						
766	„ 4	eP	8 50 27						Ditsant, small amplitude
767	„ 6	P	6 28 40					400	Southern part of Tanegashima
		L	6 29 33						Observed by Imamura's instrument
		M	6 29 47	5	—1000	+1200			T.=3
		M	6 30 50	5	—1200	—1000			V=2
		F	6 42 55						
									No. 768 microseisms
769	„ 7	P	4 18 32					900	
		L	4 20 33						
		M	4 21 20	14	+400				
		F	4 44 58						
770	„ 7	P	10 45 12					370	
		L	10 46 02						
		F	10 48 03						No 771—774 microseisms
775	„ 18	P	5 43 32					900	
		L	5 45 32						
		F	5 50 07						
776	„ 18	P	19 42 58					18	Chijiwa Bay.
		L	19 43 00 4						Felt in Nagasaki
		M	19 43 01.0	0.3	—90				
		F	19 43 27						
777	„ 19	P	6 31 58					1165	Southern port of Yaeyama Is.
		L	6 34 35						
		M	6 36 50	17	+350				
		F	7 05 35						
									No. 778 microseisms
779	20	P	13 53 52					400	
		L	13 54 45						
		F	14 00 55						
									No. 780 microseisms, felt in Enoura
									No. 781 mocroseisms
782	„ 26	eP	2 05 45						Southern part of Yaeyama Is.
		F	2 20 03						
									No. 783 microseisms
784	„ 27	P	12 21 52		+10			230	
		L	12 22 23						
		M	12 22 32	6		+170			
		M	12 22 32	5	+150				
		F	12 29 31						No. 785—702 microseisms

NAGASAKI, JAPAN.

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NAGASAKI METEOROLOGICAL OBSERVATORY OF JAPAN.

φ=32° 44′03″ λ=129°52′31″ h=130.6m.

Lithologic foundation : Volcanic Agglomerate.

Instrument: Omori Horizontal Pendulum.

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

No.	Date	Phase	Time 135° E h	m.	s.	Period s.	Amplitude AN μ	AE μ	AZ μ	△ km.	Remarks
795	Dec. 5	P	8	41	11					430	No. 793—794: Microseisms
		S	8	41	33						
		L	8	42	08	3	+ 150	— 58			
		M	8	42	14	3	+ 40	+ 125			
		F	8	51	15						No.796—802: Microseisms
803	„ 9	P	4	07	02					350	
		L	4	07	49	5	+ 50	— 50			
		M	4	08	03	5	— 60	— 75			
		F	4	15	17						No. 804—816: Microseisms
817	„ 12	P	13	04	56					280	
		L	13	05	34			.			
		F	13	08	34						No. 818—823: Microseisms
824	„ 20	P	21	47	23	0.6	+ 175	+ 1		25	Microseisms, Felt in Nagasaki
		L=M	21	47	26	0.6	— 300	— 290			and its neighbourhood
		C	21	47	44	0.6	+ 50				
		F	21	52	18						No. 825—826: Microseisms
827	„ 21	P	20	33	25		+ 8	— 3		23	do. Felt in Nagasaki &
		L	20	33	28.1		— 40	+ 100			Mt. Unzen
		F	20	35	11						No. 828—830: Microseisms
831	„ 26	P	5	21	56		— 20	— 8		113	
		L	5	22	11.2			+ 15			
		M	5	22	14						
		F	5	24	36						No. 832: Microseisms
833	„ 26	P	16	18	56					133	
		L	16	19	14						
		F	16	20	25						
834	„ 27	P	23	41	17					979	
		L	23	43	29			— 92			
		M	23	45	05						
		F	23	50	50						No. 835—839: Microseisms
840	„ 28	P	21	03	59					170	
		L	21	04	22						
		M	21	04	32			+ 25			
		F	Lost by next shock.								
841	„ 28	P	21	08	04					170	
		L	21	08	27						
		M	21	08	41			— 46			
		F	21	13	15						
842	„ 30	P	22	21	27					8.9	
		L	22	21	28.2		+ 175				
		F	22	21	56						No. 843—844:Microseisms

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NAGASAKI, JAPAN.

SEISMIC BULLETIN

OF THE

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φ=32° 44′03″ λ=129°52′31″ h=130.6m.

Lithologic foundation : Volcanic Agglomerate.

Instrument: Omori Horizontal Pendulum.

	T_o	$\mathcal{E}$	$\frac{r}{T_o^2}$	V
AN	20			20
AE	26			120
AZ				

No.	Date	Phase	Time 135° E h	m.	s.	Period s.	Amplitude AN μ	AE μ	AZ μ	△ km.	Remarks
795	Dec. 5	P	8	41	11					430	No. 793—794 : Microseisms
		S	8	41	33						
		L	8	42	08	3	+ 150	— 58			
		M	8	42	14	3	+ 40	+ 125			
		F	8	51	15						No.796—802: Microseisms
803	„ 9	P	4	07	02					350	
		L	4	07	49	5	+ 50	— 50			
		M	4	08	03	5	— 60	— 75			
		F	4	15	17						No. 804—816: Microseisms
817	„ 12	P	13	04	56					280	
		L	13	05	34						
		F	13	08	34						No. 818—823: Microseisms
824	„ 20	P	21	47	23	0.6	+ 175	+ 1		25	Microseisms, Felt in Nagasaki
		L=M	21	47	26	0.6	— 300	— 290			and its neighbourhood
		C	21	47	44	0.6	+ 50				
		F	21	52	18						No. 825—826: Microseisms
827	„ 21	P	20	33	25		+ 8	— 3		23	do. Felt in Nagasaki &
		L	20	33	28.1		— 40	+ 100			Mt. Unzen.
		F	20	35	11						No. 828—830: Microseisms
831	„ 26	P	5	21	56		— 20	— 8		113	
		L	5	22	11.2			+ 15			
		M	5	22	14						
		F	5	24	36						No. 832: Microseisms
833	„ 26	P	16	18	56					133	
		L	16	19	14						
		F	16	20	25						
834	„ 27	P	23	41	17					979	
		L	23	43	29			— 92			
		M	23	45	05						
		F	23	50	50						No. 835—839: Microseisms
840	„ 28	P	21	03	59					170	
		L	21	04	22						
		M	21	04	32			+ 25			
		F	Lost by next shock.								
841	„ 28	P	21	08	04					170	
		L	21	08	27						
		M	21	08	41			— 46			
		F	21	13	15						
842	„ 30	P	22	21	27					8.9	
		L	22	21	28.2		+ 175				
		F	22	21	56						