

SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

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

h = 130.6m.

Lithologic foundation: Volcanic Agglomerate.

INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS	DAMPING	To	$\frac{r}{T_0^2}$	ϵ	V
Wiechert	E-W	200	Air	4.3	0.023	2.5	77
	N-S	"	"	4.4	0.014	2.5	77
Wiechert	U-D	80	"	4.4	0.051	2.4	69
Ômori	E-W	16	Magnetic				
Ômori	N-S	16	"				
Ômori	N-S	20					
	E-W	20					
C. M. O.	NE-SW	2.3	Magnetic				
	NW-SE	2.3	"				
	U-D	2.3	"				

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No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
1	2 Jan.	cP?	9	45	30.7			+0.7	+1.3	49	Local shock.
		S	"	"	37.3						
		F	"	46	04.0						
2	3 "	cP	6	43	55.9	2.4	+2.2	-2.6	+3.2	191	Near shock.
		S	"	44	21.6						
		L	"	"	27.9	3.2		+6.5	-15.6		
		M	"	"	35.1						
		C	"	"	43.3						
		F	"	48	56						
3	" "	cP	12	11	50.8					193	Ditto.
		eS	"	12	16.8						
		F	"	13	50.8						
4	4 "	P	6	03	41.4					19	Local shock.
		S	"	"	44.0						
		F	"	"	58.5						
5	9 "	iP	19	29	28.0	3.4	-17.4	+10.5	-11.8	4414	Distant earthquake.
		eS _Z	"	35	37.2						
		iSEN	"	"	38.7	4.2		+25.0	-27.6		
		MN	"	"	42.0	5.9			+46.0		
		ME	"	"	42.7	5.9		-39.5			
		C	"	36	48.0						
		F	20	01	48.0						
6	15 "	P	3	24	22.0					~	Local shock.
		F	"	"	32.0						
7	16 "	P	12	58	01.5	0.4		+1.9	+8.8	25	Ditto.
		S	"	"	04.8						
		F	"	"	27.5						
8	" "	P	18	54	53.8					25	Ditto.
		S	"	"	57.2						
		F	"	55	16.0						
9	21 "	P	23	43	24.9					176	Near shock.
		S	"	"	48.5						
		F	"	46	57.0						
10	24 "	cP	12	54	40.7					6840?	Distant earthquake.
		eS	13	03	01.7						
		F	"	26	34.7						
11	27 "	P	21	16	26.6	1.7	+10.2	-6.5	+2.6	198	Hyūga Nada.
		{SN	"	"	53.2						
		{SE	"	"	53.7	1.5	-17				
		{SZ	"	"	54.1	1.4	+29				
		{MN	"	"	56.5	1.7		+47			
		{MZ	"	"	56.8	2.7	-36				
		{ME	"	"	57.3	1.7		-32			
		C	"	17	31.6						
F	"	23	31.6								
12	28 "	P	3	42	15.8					~	Ditto.?
		F	"	44	16.3						

SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

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No.	Date	Phase	Time 135 E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AZ μ	AE μ	AN μ		
13	29 Jan.	eP	22	49	29.5				4655	<i>Distant earthquake.</i>	
		eS	"	55	53.0						
		eL	23	01	21.5						
		F	"	36	29.5						
14	30 "	eP	0	47	29.5				5078	<i>Ditto.</i>	
		eS	"	54	16.0						
		F	1	21	29.5						
15	31 "	P	14	30	00.1				217	<i>Hyūga Nada.</i>	
		S	"	"	29.3						
		F	"	33	02.9						
16	" "	e	15	30	23.3				~	<i>Near shock.</i>	
		F	"	31	27.8						

SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

 $\varphi = 32^{\circ}44'03''$ $\lambda = 129^{\circ}52'31''$ $h = 130.6\text{m.}$ Lithologic foundation: Volcanic Agglomerate.

INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS	DAMPING	To	$\frac{r}{T_0^2}$	ϵ	V
Wiechert	E-W	200	Air	4.3	0.025	2.6	75
	N-S	"	"	4.4	0.013	2.6	75
Wiechert	U-D	80	"	4.6	0.063	2.3	67
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
			h.	m.	s.		AZ	AE	AN		
						s.	μ	μ	μ		
17	3 Feb.	P	16	36	46.3	1.3	-1.5	-2.7	+0.7	977	Off the NW coast of Is. Jitu (Remarkable)
		S	"	38	32.0			+1.2	-2.3		
		M	"	"	41.3	6.4		+4.5	-4.7		
		C	"	"	49.3						
		F	"	46	55.3						
18	12 "	P	11	06	50.7			+1.6	+2.0	~	Away to the E coast of Sea Taiwan.
		F	"	11	56.0						
19	15 "	P	8	32	56.0		+4.8	-2.0	+4.0	181	Off the NE coast of Tanegashima.
		S	"	33	20.4		+7.8	+10.0	+8.0		
		F	"	36	17.0						
20	" "	P	10	07	11.7					~	Hiuga Nada
		F	"	09	17.0						
21	18 "	P	12	45	59.0					99	Is. Ōjano.
		S	"	46	12.3						
		F	"	47	06.5						
22	19 "	P	22	29	09.2					~	Away to the SE coast of Is. Hatizō.
		F	"	34	15.8						
23	22 "	P	0	56	07.2					254	Ōsumi channel.
		S	"	"	41.5						
		F	1	02	15.5						

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NAGASAKI METEOROLOGICAL OBSERVATORY

 $\varphi = 32^{\circ}44'03''$ $\lambda = 129^{\circ}52'31''$

h = 130.6m.

Lithologic foundation: Volcanic Agglomerate.



INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS	DAMPING	T_0	$\frac{r}{T_0^2}$	ϵ	V
Wiechert	E-W	200	Air	4.3	0.025	2.6	75
	N-S	"	"	4.6	0.019	2.6	75
Wiechert	U-D	80	"	4.4	0.063	2.3	67
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
			h.	m.	s.		Az μ	Ae μ	An μ		
24	8 Mar	P	13	37	24.0				~	Direction of Kamchatka	
		F	"	41	18.0						
25	14 "	P	22	05	03.5				~	Local shock	
		F	"	07	07.0						
26	" "	P	23	04	34.0				~	Away to the Coast of Gunzan, Chosen.	
		F	"	05	47.0						
27	5 "	P	13	37	45.3		-3.9	+2.6	3215	Distant earthquake.	
		S	"	42	43.3						
		F	"	52	47.0						
28	17 "	P	9	51	21.3				208	Southern part of Bungo channel	
		S	"	"	49.3						
		F	10	00	22.0						
29	19 "	P	20	04	44.4				2515	Neighbourhood of Mariana Islands.	
		S	"	08	50.4						
		F	"	21	20.0						
30	26 "	P	9	08	11.5				6365	Direction of Aleutian Islands.	
		S	"	16	07.5						
		F	"	51	17.0						
31	" "	P	18	59	32.5				3865	Direction of Philippine Islands.	
		S	19	05	12.0						
		F	"	36	17.0						

No. 4

From 5th to 30th April 1932

SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

 $\varphi=32^{\circ}44'03''$ $\lambda=129^{\circ}52'31''$ $h=130$ m. Lithologic foundation: Volcanic Agglomerate.

INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS	DAMPING	T_0	$\frac{r}{T_0^2}$	ϵ	V
Wiechert	E-W	200	Air	4.4	0.019	2.6	71
	N-S	"	"	4.7	0.024	2.6	71
Wiechert	U-D	80	"	4.8	0.016	2.7	48
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
			h.	m.	s.		AZ μ	AE μ	AN μ		
32	5 Apr.	P	4	18	33.7			+6.8	-1.3	846	Off the coast of Is. Hatizio. (Remarkable)
		S	"	20	05.3	2.4		-5.2	+22.1		
		M	"	"	15.7	4.3		+190	-133		
		F	"	46	15.2						
33	" "	P	21	43	06.4					-	Is. Yaku.
		F	"	45	15.0						
34	6 "	P	18	14	21.4					2271	Middle valley of R. Yang Tse Kiang.
		S!	"	18	07.5						
		F	"	30	15.0						
35	13 "	P	9	00	30.3					4620	Distant earthquake.
		S	"	06	51.8						
		F	"	16	13.5						
36	26 "	P	21	41	17.3					376	Off the NE coast of Is. Ōsima, Kagosima pref.
		S	"	42	07.9						
		F	"	44	20.0						
37	" "	P	22	36	30.2					2552	Okhotsk Sea.
		S	"	40	39.4						
		F	"	43	10.0						
38	28 "	P	12	44	37.6					1269	Kumano Nada. (Rather remarkable)
		S	"	46	52.5						
		F	"	49	10.0						
39	30 "	P	2	36	24.3					2976	South Ocean.
		S	"	41	05.7						
		F	"	43	10.0						

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NAGASAKI METEOROLOGICAL OBSERVATORY

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



INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS	DAMPING	T_0	$\frac{r}{T_0^2}$	ϵ	V
Wiechert	E-W	200	Air	4.4	0.019	2.6	7.1
	N-S	"	"	4.7	0.024	2.6	7.1
Wiechert	U-D	80	"	4.8	0.016	2.7	4.8
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E			Period	Amplitude			Δ	Remarks
			h.	m.	s.		Az	AE	AN		
						s.	μ	μ	μ	km.	
40	3 May	iP	8	29	50.0	2.1	+2.5	-1.8	+2.2	275	Ariake Bay, Kagosima Prefecture. (Rather remarkable)
		iS	"	30	27.0	$\frac{EN}{Z} 2.17$	+2.2	-9.0	-5.3		
		Mz	"	"	28.7	3.2	+10.6				
		MN	"	"	33.2	4.0			-15.0		
		ME	"	"	35.0	4.2		+34.0			
		C	"	31	30.0						
F	"	42	10.0								
41	" " "	P	21	13	48.5					28	Microseisms.
		S	"	"	52.3						
		F	"	15	00.0						
42	5 "	P	13	12	23.5		-1.8	+1.4	+0.7	615	Osaka Bay.
		S	"	13	31.0			+1.1	+3		
		F	"	20	10.0						
43	14 "	Pz	22	17	32.2		+4.0			3466	South Ocean.
		PEH	"	"	33.9			-1.0	-5.0		
		Sz	"	22	46.9		+2.5				
		SEN	"	"	47.7	4.2		+2.5	-2.8		
		M	"	"	58.1	7.0		-7.8	-13.7		
	15 "	F	0	36	12.5						
44	23 "	P	23	31	00.0					8	Microseisms.
		S	"	"	01.1						
		F	"	"	07.5						

No.

5,

From to

27th 31st May 1932

SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY



No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
45	27 May	P	1	20	19.3				750.2	Distant earthquake. Amplitude ant period of the P phase is immeasurable disturbed by time note.	
		i	"	"	20.4	3.2	+6.3	-7.8			+2.8
		iz	"	"	30.9	3.9	+45.8	+19.7			-14.1
		MP	"	"	34.5	3.9	+93.8	-43.6			+32.4
		eS	"	29	14.4	6.4		-5.6			-17.0
		Ms	"	"	28.2	5.3		-17.6			-46.5
		Ms	"	30	08.3	6.4		+46.5			
		C	"	"	29.3						
		F	2	16	19.3						
46	28 "	P	11	22	27.3		-4.0	+5.6	-7.0	361	Off the NE coast of Is. Ōsima, Kagosima Pref. (Remarkable)
		S	"	23	16.0			-18.3	-19.0		
		MN	"	"	35.1	3.8			-10.0		
		ME	"	"	39.3	3.8		+7.4			
		C	"	27	20.0						
		F	"	51	20.0						
47	" "	P	14	03	46.4			+0.7	-1.0	372	Ditto. (Rather remarkable)
		S	"	04	36.5						
		F	"	11	20.0						
48	30 "	P	10	45	36.7					96	Kii channel
		S	"	"	49.6						
		F	"	46	21.5						
49	31 "	P	12	03	11.3					16	Tidiwa Bay.
		S	"	"	13.4						
		F	"	"	37.0						

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INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS	DAMPING	To	$\frac{r}{T_0^2}$	ϵ	V
Wiechert	E-W	200	Air	4.7	0.010	3.5	8.0
	N-S	"	"	4.5	0.018	3.2	8.0
Wiechert	U-D	80	"	4.4	0.056	2.4	7.3
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
50	3 June	L	9	21	56.5				~	Off the coast of Kinkazan. (Remarkable)	
		F	"	28	36.5						
51	" "	P	19	50	36.4				7900	Mexico.	
		S?	"	59	51.4						
		L	20	05	39.7						
		F	23	26	25.7						
52	8 "	P	15	14	33.1	2.1	+9.6	-10.0	214	Hiuga Nada	
		S	"	15	01.9			-2.8			-3.8
		Mz	"	"	03.2	1.3	+6.6				
		ME	"	"	05.5	2.0		-7.1			-5.9
		MN	"	"	08.4	2.0		-3.8			+10.3
		F	"	"	46.7						
53	" "	P	19	54	33.7	2.5	+5.2	-6.3	209	Ditto	
		S	"	55	01.8	2.7	-1.0	-1.8			+2.0
		M	"	"	11.1	2.7		+3.7			-5.0
		C	"	56	04.0						
		F	20	05	29.0						
9	" "	sp	23	59	55.4				2619	South Ocean.	
		es	0	04	10.1						
11	" "	F	"	10	09.0				~	Ditto	
		P	5	26	59.5						
12	" "	F	"	37	31.3				3208	Off the SW coast of Marianne Islands.	
		P	2	05	07.4						
		S	"	10	04.7						
		F	"	16	32.0						



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No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
57	14 June	P	6	01	34.6				2010	Neighbourhood of Philippine Islands.	
		eS	"	04	58.6						
		F	"	21	34.6						
58	" "	P	15	03	24.5	2.1	-1.4	-1.3	1777	Off the SSE coast of Kosiun, Taiwan.	
		eS	"	06	27.2						
		M	"	"	38.1	4.2	-5.5	+17.5			+12.5
		F	"	21	34.5						
59	18 "	P	10	31	58.0	2.6	+5.9	-7.5	238	Southern part of Hingana	
		S	"	32	30.0			-47.5			-35.0
		M	"	"	35.3	3.2	-44.5	+85.0			+95.0
		C	"	33	21.0						
		F	"	42	08.0						
60	" "	eP	19	30	01.5				?	New Zealand.	
		eS?	"	46	38.1						
		eL	20	11	06.5						
		M	"	30	05.5	17.7		+6.3			-10.0
		F	21	41	38.5						
61	22 "	P	5	31	26.8				12	Microseisms.	
		S	"	"	28.4						
		F	"	"	42.2						
62	" "	P	9	38	21.9				1116	Off the Cape Inuboe	
		S	"	40	21.5	3.4		+			-
		M	"	41	29.4	5.3		+12.5			-12.5
		F	"	51	32.4						
63	27 "	P	4	24	07.6				2540	Away to the SE coast of Cape Otisi.	
		S	"	28	15.6						
		F	"	40	00.0						

No. 7

From 3rd to 30th July 1932

SEISMIC BULLETIN

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 $\varphi = 32^{\circ}44'03''$ $\lambda = 129^{\circ}52'31''$

h = 130.6m.

Lithologic foundation: Volcanic Agglomerate.

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INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS	DAMPING	T_0	$\frac{r}{T_0^2}$	ϵ	V
Wiechert	E-W	200	Air	4.3	0.016	2.6	80
	N-S	"	"	4.5	0.014	2.6	80
Wiechert	U-D	80	"	4.4	0.054	2.5	65
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AZ μ	AE μ	AN μ		
64	3 July	P	3	40	20.8				2.2	Local shock Felt slightly.	
		S	"	"	23.7						
		F	"	"	44.7						
65	10 "	P	16	41	26.0				-	Away to the E coast of Miyako (Remarkable)	
		L	"	52	42.1						
		F	17	05	05.0						
66	21 "	ep	21	46	59.0				3775	Direction of New Guinea	
		eS	"	52	33.0						
		F	"	59	33.0						
67	25 "	ip	17	26	05.8	1.9	-25.4	+16.2	639	Wakasa Bay (Remarkable, deep seated)	
		S	"	27	14.7	3.2	+3.8	-18.8			
		ME	"	"	21.4	4.2		-53.1			
		MN	"	"	23.1	4.2		+37.5			
		C	"	"	43.3						
		F	"	42	43.3						
8	27 "	P	9	32	16.1	1.7	-	-3.1	1092	Off the SW coast of Is Hatizō. (Rather remarkable, deep seated)	
		S	"	34	13.3			+3.8			
		F	"	37	47.4			+1.9			
2	28 "	ep	6	26	59.3				3968	Direction of New Guinea.	
		eS	"	32	44.5						
		F	"	39	50.8						
2	30 "	ep	13	38	11.3				1923	? Unknown.	
		eS?	"	41	27.6						
		F	"	43	57.3						

SEISMIC BULLETIN

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 $\varphi = 32^{\circ}44'03''$ $\lambda = 129^{\circ}52'31''$ $h = 130.6\text{m.}$ Lithologic foundation: Volcanic Agglomerate.

INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS	DAMPING	T_0	$\frac{r}{T_0^2}$	ϵ	V
Wiechert	E-W	200	Air	4.5	0.010	2.7	80
	N-S	"	"	4.5	0.014	2.8	80
Wiechert	U-D	80	"	4.4	0.063	2.5	67
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AZ μ	AE μ	AN μ		
7 1	12 Aug	Pz	12	32	37.3				5298	Aleutian Is	
		SEN	"	39	35.5	4.1	-1.8	+6.2			-8.8
		F	"	44	25.1						
7 2	14 "	I	13	45	38.7	3.3	-3.0	+3.0	+1.2	3088	Western part of Szechuen, China.
		S	"	50	28.1	7.5		+10.0	-12.5		
		M	"	56	06.5 7.1	8.2		-18.7	+18.7		
		M	"	59	49.9	11.2		+14.4	-11.3		
		F	14	20	31.0						
7 3	21	L	13	18	13.1	3.6		+1.2?	+1.2?	1262	Off the E coast of Kwantō.
		ip	"	"	14.3	3.6	-2.0	-3.1	-6.3		
		MP	"	"	30.5	4.6		-12.5	+28.8		
		SN?	"	20	27.3	6.3					
		LEN	"	21	38.4	18.8					
		MEN	"	24	14.4	12.6		-1.1	+1.5		
		F	"	48	43.4						
7 4	22 "	ep	20	14	30.5					861	Off the SE coast of Shan-tung, China.
		SN	"	16	04.6	2.5			-2.5		
		LEN	"	"	34.0	3.8		+12.5	-12.5		
		Mz	"	"	56.3	3.5	+4.6				
		ME	"	17	02.8	3.8		+5.0			
		MN	"	"	30.3	3.8			-9.0		
		C	"	19	53.8						
		F	"	41	45.8						
2, 2,	23	ep	15	31	38.3				72	Upper valley of R. Midori	
		S	"	"	48.0						
		F	"	"	57.5						

No. 8/

From August to August



SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
76	24 Aug	P	0	04	56.4					~	Hiuga Nada
		F	"	06	03.4						
77	" "	e	21	14	50.4					~	Direction of Isop
		P	"	24	50.4						
78	" "	P	22	51	20.0	0.6	+0.6	-1.0	-0.8	45	Mouth of R. Tsurug
		S	"	"	26.0		+2.6	-8.8			
		F	"	53	10.0						
79	26 "	P	22	53	25.2		+0.4	-0.5?	+1.0?	269	Hiuga Nada.
		S	"	54	01.5						
		F	"	55	54.2						

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SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

 $\varphi = 32^{\circ}44'03''$ $\lambda = 129^{\circ}52'31''$ $h = 130.6\text{m.}$ Lithologic foundation: Volcanic Agglomerate.

INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS	DAMPING	T_0	$\frac{r}{T_0^2}$	ϵ	V
Wiechert	E-W	200	Air	4.5	0.019	2.6	80
	N-S	"	"	4.5	0.018	2.7	80
Wiechert	U-D	80	"	4.1	0.043	2.5	66
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E		Period	Amplitude			Δ km.	Remarks		
			h.	m.		s.	Az	AE			AN	
			h.	m.	s.	μ	μ	μ				
80	8 Sep	P	21	02	05.8	1.9	+1.8	-1.5	-1.3	2003	Off the ESE coast of Siriyazaki. (Remarkable)	
		S	"	05	29.1	3.4		+5.0	+6.0			
		M _E	"	06	29.2	5.1		+1.5				
		M _N	"	"	51.5	5.1			-1.9			
		L	"	07	01.0	14.8						
		C	"	09	08.0							
F	"	21	08.0									
81	9 "	P	22	46	07.6					3898	Direction of New Guinea	
		S	"	51	48.8							
		F	23	07	15.2							
82	11 "	P	22	20	14.5		-0.3	0	-0.4	330	Off the NE coast of Amami- Ōshima.	
		S	"	"	58.9			-2.4	-1.8			
		F	"	24	17.3							
83	15 "	P	20	19	12.2					3030	South Ocean.	
		S	"	23	57.2							
		F	"	41	19.2							
1	23 "	P	23	25	13.5	0.7	-0.2?	+0.2	+0.4	1462	Northern part of Japan Sea. (Remarkable, deep seated)	
		S	"	27	46.7	3.3		+1.3	-1.1			
		M ₁	"	28	18.1	3.9		-5.0	+4.0			
		M ₂	"	"	26.0	4.1		+5.8	+1.2			
		C	"	32	21.0							
		F	24 "	0	00	21.0						
1	27 "	P ₂	4	32	57.0					3976	Greece.	
		S ₁	"	43	06.3							
		M	5	13	02.3							
		F	"	35	51.0							

No.

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From

to Sept

International
Seismological
Centre

SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
86	29 Sep	P	12	43	06.7				153	Neighbourhood of Naokata, Hukuoka Prefecture.	
		S	"	"	27.3						
		F	"	44	51.5						
87	30 "	P	2	51	30.3		+1.6	-1.9	2563	Off the S coast of Is Etorō.	
		S	"	55	40.5	106	+0.0	+5.0			
		eL	"	58	39.0						
		F	3	35	21.3						

No.

From to

SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

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

h=130.6m.

Lithologic foundation: Volcanic Agglomerate.

International
Seismological
CentreINSTRUMENTAL CONSTANTS From 1st to 24th Oct 1932

No 10

INSTRUMENT	COMPONENT	MASS	DAMPING	To	$\frac{r}{To^2}$	ϵ	V
Wiechert	E-W	200	Air	4.5	0.019	26	80
	N-S	"	"	4.5	0.018	27	80
Wiechert	U-D	80	"	4.1	0.043	25	66
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E	Period	Amplitude			Δ	Remarks
					Az	AE	AN		
			h. m. s.	s.	μ	μ	μ	km.	
88	1 Oct	P	18 22 24.9					4.2	Height of Minato, Kumamoto Pref.
		S	" " 30.6			+ 1.2	+ 5.0		
		F	" 23 32.0						
89	" "	P	18 37 20.2					4.5	Ditto.
		S	" " 26.2						
		F	" 38 22.0						
90	2 "	P	0 10 19.9	1.2	-14	+ 1.6	- 0.8	794	Away to the NW coast of Is. Tati
		S	" 12 06.9	2.7		+ 12.5	- 12.5		
		F	" 19 22.0						
91	" "	P	8 51 02.8					37	Height of Tome, Nagasaki Pref.
		S	" " 07.8			+ 0.6	+ 1.0		
		F	" " 52.0			- 1.5	+ 0.5		
92	6 "	P	14 02 38.7	2.1	+ 5.0	- 5.0	+ 1.0	764	Off the SW coast of Is. Hatedyō.
		S	14 04 02.1	4.0		+ 7.0	+ 7.0		
		F	" 09 20.9						
93	9 "	ϵ P	21 52 28.4	4.1				1176	Off the SW coast of Is. Yonakuni, Okinawa Pref.
		ϵ S	" 54 34.0			- 1.0	- 3.0		
		ϵ L	" 56 08.5						
		F	22 12 47.0						
4/4	13 "	ϵ P	4 41 48.7					2645	Tisima
		ϵ S	" 46 05.2						
		F	" 53 09.0						
14 "	" "	P	21 37 46.0	1.3	+ 0.6	+ 1.3	- 1.3	789	Off the SSW coast of Is. Hatedyō
		S	" 39 11.9	4.0		+ 2.0	- 1.0		
		F	" 43 48.0						
22 23	16 "	P	21 17 20.7	3.6	+ 2.0	- 1.6	- 1.6	5871	Direction of Kamchatka.
		S	" 24 50.1			- 2.0	+ 2.1		
		F	" 58 08.9						

No.

From to

SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

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

h=130.6m.

Lithologic foundation: Volcanic Agglomerate.

International
Seismological
Centre

No 11

INSTRUMENTAL CONSTANTS

From 4th to 23rd Nov 1933

INSTRUMENT	COMPONENT	MASS	DAMPING	To	$\frac{r}{T_0^2}$	ϵ	V
Wiechert	E-W	200	Air				
	N-S	"	"				
Wiechert	U-D	80	"				
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AZ μ	AE μ	AN μ		
100	4 Nov	^a PEN	4	47	29.1	5.0		+15	-12	~	Caroline Islands.
		Pz			29.8		-1.8				
		l			30.5	0.8	+1.5	-2.0	+1.3		
		SEN	51	200	73		-4.4		± 0		
		H	5	02	47.8						
101	10 "	P	2	31	28.5				~	Local shock.	
		H			38.5						
102	13 "	P	7	53	06.3				~	Off the ENE coast of Kwarentō Taiwan.	
		H	8	07	00.0						
103	" "	P	13	44	46.5	3.0	-1.2	+1.6	+4.1	1265	Northern part of Japan Sea.
		SE	"	52	01.0	7.2		-2.0			
		Sz?	"	"	04.6		+6				
		MEN	"	"	05.9	E 6.8		+3.8	-2.0		
		Mz	"	"	11.0	6.0	+2.7				
		MN	"	"	11.7	5.1		-2.1	+5.0		
		ME	"	"	34.5	4.9		+4.4	+1.9		
		iz	"	58	00.1	1.1	+1.4				
		IEN	14	01	35.2	4.2		+2.8	-1.6		
		MEN	"	"	38.0	4.5		-3.8	+2.0		
		C	"	"	48.5						
H	"	20	00.0								
104	18 "	P	5	12	06.9	E 0.5	-3.8	+0.4	-1.3	163	Oosumi Channel.
		S	"	"	28.9	E 2.4	+10.6	+18.8	+14.4		
		MN	"	"	30.3	2.5			+31.3		
		Mz	"	"	30.8	2.1	-16.7				
		ME	"	"	31.3	2.5		-27.5			
		C	"	"	47.1	4.1					
		H	"	17	04.8						
22 "	" "	P	23	58	44.8	N 3.1	+1.2	-0.0	+1.2	~	Distant eqn.
		e	"	04	30.1	N 2.5		-1.0	+0.9		
		e	"	08	30.9	N 2.5		-0.9			
		H	"	11	09.0						



SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
107 ¹⁶	26 Nov	P	13	27	14.0	5.1	708	-1.2	-1.2	1471	Mouth of R. Nukappu. Hokkaido
		S	"	29	48.1		-8.8	+6.3			
		MN	"	31	03.4		-12.5				
		ME	"	33	01.2		+15.6				
		F	14	02	50.6						
108 ¹⁷	27 "	ep?	12	40	22.5	7.0				~	Off the NNW coast of I. T. I.
		EL	"	44	15.6						
		F	"	50	45.6						
109 ¹⁸	28 "	P	13	35	21.5	6.4				~	Local Shock.
		F	"	"	27.0						
110 ¹⁹	" "	P	22	53	47.6	1.1				16	Ditto
		S	"	"	49.7						
		F	"	"	59.0						
110 111	30 "	P	5	15	31.8	1.1		+44	+7.5	188	Hyōga Nada
		S	"	"	57.1						
		F	"	19	31.8						
111 112	" "	ep	15	37	28.8	1.1				346	?
		FS	"	"	13.0						

No.

From to

SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

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

h=130.6m.

Lithologic foundation: Volcanic Agglomerate.

International
Seismological
CentreINSTRUMENTAL CONSTANTS From 4th to 12th Dec 1932

No 12

INSTRUMENT	COMPONENT	MASS	DAMPING	To	$\frac{r}{To^2}$	ϵ	V
Wiechert	E-W	200	Air	4.3	0.007	2.3	80
	N-S	"	"	4.4	0.011	2.3	80
Wiechert	U-D	80	"	4.0	0.055	2.5	75
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
			h.	m.	s.		AZ	AE	AN		
1132	4 Dec	ePz	17	17	35.6	2.7	+0.4			3338	North of I. (100)
		SN	"	22	45.1	2.6			-1.3		
		LN	"	26	51.8	3.0			+1.0		
		MN	"	29	09.3	2.1			+2.1		
		Mz	"	30	50.6	1.8	+9				
		MN	"	"	54.3	1.8			-1.8		
		C	"	35	07.6						
		F	"	58	07.6						
1143	" "	eP	19	40	22.4					~	D.M.
		eL	"	49	51.7						
		F	"	54	07.0						
1154	5 "	P	9	20	56.8	1.1	+1.3	-1.3	-0.4	693	Kamane Nada.
		S	"	22	13.1	1.9	+0.9	-1.3	+4.0		
		F	"	26	03.9						
1165	13 "	eP	6	43	30.2					168	Off the N coast of I. Yaku.
		S	"	"	52.8	2.2			-5.0		
		F	"	45	10.0						
1176	16 "	eP	4	37	03.0					623	Off the E coast of Koryu. Taiwan.
		S	"	38	27.0						
		L	"	42	03.0						
		F	"	48	03.0						
1187	21 "	eP	14	54	39.8					58 579	Mouth of R. Midori Kumamoto Pref.
		S	"	"	47.6						
		F	"	55	19.7						
1198	24 "	eP	15	39	17.4					4315	
		eL	"	45	22.7						
		M	"	53	52.7	15.0			-6.4		
		F	10	11	12.0						



SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
119	25 Dec	ep	11	10	17.3	3.2				3015	Western part of Mongolia.
		S	"	15	01.6		-6.3	-31.3			
		L	"	19	26.3		+3.8	-16.0			
		M ₁	"	20	05.2		+69.4				
		M ₂	"	22	07.0		+82.0				
		M ₃	"	"	49.9		+54.0	-85.6	+63.8		
		M ₄	"	24	00.7		-46.7	-87.0	+43.8		
		M ₅	"	"	49.7			+65.0			
		C H	"	33	34.9						
		H	12	27	00.7						
120	27 "	P	6	16	30.4	2.1	+2.5	+4.4	+6.5	776	Off the SW coast of Is. Okinawa.
		S	"	17	55.0	4.0		+7.5			
		C	"	23	01.4						
		H	"	34	07.9						
121	" "	ep	7	34	36.8	2.1				1690	Off the SSE Coast of Is. Titi.
		S	"	37	31.8		-6.3	+10.0			
		H	"	46	55.0						
122	29 "	P	14	45	38.0	0.4				12	Local shock.
		S	"	"	39.6			-6.9			
		H	"	46	42.0						
123	30 "	ep	14	16	24.7					11	Ditto
		S	"	"	26.2						
		H	"	"	36.0						

ayako

hama-

mt.