

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.

### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS	DAMPING	To	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	E-W	200	Air	1.5	0.016	26	82
	N-S	"	"	1.4	0.016	24	72
Wiechert	U-D	80	"	3.6	0.028	23	73
Omori	E-W	16	Magnetic				
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E		Period	Amplitude			$\Delta$	Remarks	
			h.	m. s.		AZ	AE	AN			
1	3 Jun	LPZ	18	47	59.5				2911		
		LP	"	"	58.6	2.8	-42	+24		+3.0	
		ESE	"	52	18.7			+24			
		SM	"	"	25.9	5.0		-76		+3.0	
		SSSE	"	54	01.6			-2.8			
		SSM	"	"	14.3	6.4	7.4	+13.9		-12.0	
		SSS?	"	58	08.2	5.6		+3.4		-2.4	
		F	19	03	35.5						
2	9 "	LP	8	09	59.3		+0.3	-1.4	-0.5	387	
		S	"	08	51.4			-6.0	+4.2		
		M	"	09	09.0	3.5	+1.4	-1.7	-2.4		
		C	"	"	51.6						
		F	"	17	51.3						
3	12 "	LP	22	41	56.5				2290?		
		SSL?	"	45	44.5						
		F	23	05							
4	15 "	LP	17	50	36.3	2.1	+0.6	+0.6	-	4195	
		(PP)?	"	"	44.3	2.1	+3.3	+5.8	-		
		(SP?)	"	"	50.4	5.3	4.6	-2.3	-3.7		-
		LN	"	"	51.6	5.3			P11		
		PPZ	"	52	11.7	2.7		-5			
		PPPE	"	"	12.1	4.1			+1.5		-7
		PPPZ	"	"	18.7	4.1		+2.4			
		LS	"	56	34.2	11.5			-31.3		+1.5
		SSN	"	59	12.1						
		SSSN	"	"	39.7						
		M1	18	04	58.0	11	13		-3.90		+11.23
		M2E	"	06	10.0	11		+2.65			
		M2EN	"	"	10	13	13		-9.83		+14.40
		M3E	"	"	4.70	13		-9.00			
		M3EN	"	"	5.20	14	14		-10.60		-4.77
		M4E	"	07	29.0	12		-8.20			
		M4EN	"	"	3.20	13	11		+13.28		-6.25
		M5E	"	08	10.0	14		-17.37			
		M5EN	"	"	0.30	14	15		+20.20		-7.60
		M6EN	"	"	2.70	13	13		-8.37		+1.25

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No.	Date	Phase	Time 135° E		Period	Amplitude			Δ km.	Remarks
			h.	m.		s.	s.	Az		
4	15 Jun	M6Z	16	18	31.0	14	-750	μ	μ	
		M7Z			53.0	12	-600			
		M7EN		17	28.0	12.10		+566	-417	
		M8EN		"	36.0	12.12		+683	-588	
		M8Z		"	43.0	10	-410			
		M9EN		10	15.0	10.12		+157	-392	
		M9Z		"	"	21.0	11	-185		
		M10EN		"	11	05.0	12.12		+292	-538
		M10Z		"	"	13.0	12	-180		
		M11Z		"	"	50.0	9	-100		
		M11EN		"	"	51.0	11.11		+352	-115
		M12EN		"	12	42.0	9.11		+113	-259
		M12Z		"	13	11.0	10	-115		
		M13EN		"	"	39.0	10.10		+176	-155
		M13Z		"	14	03.0	10	+68		
		M14Z		20	18	46.0	32			
F1		"	50							
5	16 "	P	12	41	44.9				12	
		S	"	"	16.3					
		F1	"	"	15.1					
6	17 "	2P	3	45	30.0				2100	
		2S	"	"	50.0	0.88				
		F1	4	05	30.0					
7	17 "	2L	21	48	08.0				~	
		F1	"	55	-					
8	20 "	1PE	20	58	18.5			+66		16
		1S	"	"	20.6			-24	-3.6	
		F1	"	"	34.5					
9	21 "	2PN	3	00	34.0				2220	
		1SEN	"	04	16.0					
		2L	"	06	20.0					
		F1	"	11	16.0					
10	" "	2P?	7	30	56.7				~	
		F1	"	"	56.7					
11	" "	PN	7	54	46.7				1500	
		SEN	"	57	20.5					
		2LE	"	57	17.5					
		C	8	29	14.0					
		F1	"	16	14.0					

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No.	Date	Phase	Time 135° E			Period	Amplitude			Δ	Remarks
			h.	m.	s.		Az	AE	AN		
						s.	μ	μ	μ	km.	
12	21 Jun	p s F	8	44	250					126	
					430						
				45	440						
13	"	p s F	15	57	325					1560	
			16		355						
				18	130						
14	22 "	p s L F	16	52	070					530	
				54	560						
				55	380						
			7	12	190						
15	24 "	p s F	3	57	138					212	
					411						
				59	020						
16	29 "	L F	5	10	410						
				36	410						
17	"	p S <sub>1</sub> S <sub>2</sub> M <sub>2</sub> M <sub>N</sub> M <sub>F</sub> C F	10	39	027	1.6 1.0 1.1 1.0	-19	+22	+11	85	
					14.1	1.0	-13	+42	-74		
					15.1	0.9	+29				
					17.0	0.3	-37				
					18.6	1.1			-127		
					19.0	1.1	-84				
					40	100					
					43	400					

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No.	Date	Phase	Time 135° E			Period	Amplitude			Δ	Remarks
			h.	m.	s.		μ	μ	μ		
12	21 Jun	p s F	8	44	25.0				126		
13	"	p s F	15	57	32.5				1560		
14	22 "	p s L F	16	52	07.0				630		
15	24 "	p s F	3	57	13.8				212		
16	29 "	L F	5	10	41.0						
17	"	p S <sub>1</sub> S <sub>2</sub> M <sub>Z</sub> M <sub>N</sub> M <sub>E</sub> C F	10	39	02.7	1.6 1.0 1.1 1.0	-19	+22	+11	45	
					14.1	2	-13	+42	-74		
					15.1	0.9	+23				
					17.0	0.3	-37				
					18.6	1.1			-127		
					13.0	1.1	-84				
					40	10.0					
					43	40.0					

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## INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS	DAMPING	To	$\frac{r}{To^2}$	$\epsilon$	V
Wiechert	E-W	200	Air				
	N-S	"	"	4.5	0.010	2.6	82
Wiechert	U-D	80	"	4.4	0.016	2.4	82
Omori	E-W	16	Magnetic	3.6	0.078	2.3	73
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E	Period	Amplitude			$\Delta$ km.	Remarks
					AZ $\mu$	$\Delta E$ $\mu$	AN $\mu$		
18	3 Feb	P	23 41 13.0					4735	
		SEN	" 47 44.0						
		SSH	" 50 53.0						
		LN	" 54 09.0						
		F	24 13 13.0						
19	4 "	EL	23 04 00.0					~	
		F	" 36 10.0						
20	5 "	PZ	1 10 09.3					34.9	
		SEN	" " 56.3						
		F	" 12 23.0						
21	" "	P	7 08 30.9		-0.7	+0.8	-1.6	3780	
		SEN	" 14 05.3						
		F	" 38 31.0						
22	8 "	P	7 29 51.7					223	
		S	" 30 21.7						
		F	" 35 21.7						
23	9 "	LP	18 37 08.0					4400	
		or	" 38 36.0						
		LS	" 43 18.0						
		F	19 03 -						
24	11 "	LP	7 04 30.0					520	
		LS	" 07 09.0						
		F	" 12 20.0						
25	12 "	P	14 43 14.7					166	
		S	" " 37.1						
		F	" 45 05.0						
26	" "	QSE	20 43 51.0	12		+44	-66	~	
		QLN	" 45 41.0						
		MNE	" 47 33.0						
		F	21 08 24.0						
27	3 "	LPN	23 33 44.7					126	
		QSE	" 34 01.7						
		F	" 35 59.0						

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No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
			h.	m.	s.		s.	AZ μ	AE μ		
28	14 Feb	iPENZ	13	03	49.7	4.1	-25	-0.7	-6.1	1550	
		iN	"	"	57.2				+		
		iN	"	"	59.6				-		
		PMZ	"	04	01.0	4.7	-35				
		PMN	"	"	05.0	5.3			+61		
		iZ(PP?)	"	"	13.6		-				
		iNZ	"	"	16.7		+		+		
		iNE(PPP)	"	"	25.5		-		-		
		PMN2	"	"	36.0	4.9			-44		
		iSEN	"	07	08.3			-	+		
		SZ	"	"	12.6		+				
		SM1	"	"	20.0	7.2		+108	-191		
		iENZ	"	"	24.9		-	+	-		
		SM2	"	"	40.0	52, 60		+57	-58		
		iLEN	"	08	26.0						
		M1E	"	12	33.0	18		+480			
		M2Z	"	13	08.0	14	+436				
		M2N	"	"	18.0	15			+328		
		M2E	"	"	19.0	14		+310			
		M3E	"	14	26.0	13		+350			
M3N	"	"	26.0	14			-380				
M4Z	"	15	16.0	12	-150						
M4E	"	"	18.0	12		+253					
F	14	13	-								
29	15 "	iS?	2	21	21.0				~		
		F	-								
30	16 "	iS	15	46	33.0				~		
		F	16	14	16.0						
31	19 "	i	19	52	08.0				~		
		MN	"	56	00.0						
		F	20	07	03.0						
32	24 "	iPENZ	15	27	27.8	3.9	+13	-4.7	+4.0	~	
		iPPENZ	"	"	42.3		+	-	+		
		iPPPE	"	"	59.2		+				
		LEN	"	30	48.0						
		M1EN	"	32	07.0	26, 21		+46.0	-40.0		
		M2E	"	32	56.0	21, 21		+31.0	+25.0		
		M3E	"	33	22.0						
		M3E	"	34	35.0	14, 16		-25.0	+15.0		
		M4E	"	37	08.0	15, 14		+26.5	+32.0		
		M5E	"	"	52.0	15			+20.0		
F	17	50	-								

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No.	Date	Phase	Time 135° E			Period s.	Amplitude			$\Delta$ km.	Remarks
			h.	m.	s.		Az $\mu$	AE $\mu$	AN $\mu$		
33	26 Feb	eP	1	27	080				2120		
		eS	"	30	420						
		F	"	32	050						
34	28 "	PEW	23	29	440	4.0		-0.7	5105		
		?eS	"	36	320						
		MW	"	43	560	22		-240			
		F	"	08	340						
35	4 March	P	15	05	160				6900		
		S	"	13	400						
		F	"	14	160						
36	"	eL	20	33	050				~		
		F	"	57	050						
37	5 "	eP	21	09	080				8700		
		eS	"	19	080						
		eL	"	28	260						
		F	22	27	-						
38	13 "	P	22	21	210				5700		
		S	"	28	460						
		F	23	00	-						
39	16 "	eP	23	21	200				1220		
		eS	"	23	300						
		F	"	31	200						
40	18 "	eP	13	38	450				2705		
		eS	"	43	130						
		F	"	54	500						
41	20 "	eP	11	46	210				6630		
		eS	"	52	310						
		F	12	14	240						
42	21 "	?eP	10	01	161				~		
		F	"	11	000						
43	"	?eP	12	42	405				~		
		F	"	51	282						

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No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
							Az	AE	AN		
44	24 Mar	P	h.	m.	s.	8.5	μ	-4.7	+4.3	537.2	
		S	"	20	57.1	4.5		-	+6.1		
		M	"	21	10.3	4.3		+25.6	-25.4		
		eL	"	29	02.7						
		F	"	58	03.6						
45	30 "	eP	23	54	33.0					244	
		S	"	55	05.9	2.2	-2.5	-10.4	+10.7		
		F	24	02	21.0						
46	4 Apr	eP	7	34	33.4					183.1	
		eS	"	37	42.5						
		F	8	08	43.6						
47	6 "	eP	9	22	21.2					60	
		S	"	"	30.1		-1.85	+7.3	-19.4		
		F	"	25	27.4						
48	7 "	eP	4	12	05.0					110.8	
		S	"	14	51.8						
		M	"	15	28.5	4.8		-15.8	+33.0		
		F	"	35	05.5						
49	10 "	eP	19	30	50.1					807.8	
		eS?	"	40	14.0						
		F	20	11	21.1						
50	12 "	eP?	6	30	15.5					~	
		eF	"	34	54.5						
51	4 "	eP	7	05	48.6	2.0		+2.4	+5.5	680	
		eS	"	07	03.5						
		F	"	11	05.9						
52	15 "	P	19	36	26.8	2.4		+1.4		112.8	
		eS	"	38	26.6						
		F	"	50	28.8						
53	6 "	eP	7	20	41.4	3.7		-4.9	+15.7	285.6	
		S	"	25	14.0	4.1		+12.8			
		eL	"	28	45.8						
		M	"	33	11.5	16.1		+24.4	-31.8		
		C	"	53	48.5						
		F	次震=續?								



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

h=130.6m.

Lithologic foundation: Volcanic Agglomerate.

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Seismological  
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## INSTRUMENTAL CONSTANTS

From 5<sup>th</sup> to 16<sup>th</sup> June 1934

INSTRUMENT	COMPONENT	MASS	DAMPING	To	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	E-W	200	Air				
	N-S	"	"	4.5	0.017	2.4	75
Wiechert	U-D	80	"	4.4	0.021	2.5	75
Omori	E-W	16	Magnetic	3.7	0.084	2.4	72
Omori	N-S	16	"				

No.	Date	Phase	Time 135° E	Period	Amplitude			$\Delta$	Remarks
					AZ	AE	AN		
			h. m. s.	s.	$\mu$	$\mu$	$\mu$	km.	
87	5 June	P	1 24 36.2					22	
		S	" " 39.1	0.5		+0.8			
		F	" 25 33.6						
88	6 "	eP	8 53 50.1					55	
		S	" " 57.5						
		F	" 55 13.3						
89	7 "	eP	22 32 10.5					52	
		S	" " 17.4						
		F	" 34 10.1						
90	9 "	iP	22 06 26.5	3.3		-1.5	+1.5	4356	
		S	" 12 33.9	3.9			+6.0		
		F	" 31 27.0						
91	12 "	P	14 15 30.5					16	
		S	" " 32.6						
		F	" 16 34.4						
92	13 "	P	10 55 02.7	3.8		+2.7	+2.1	1899	
		S	" 58 16.6						
		M	" " 31.8		-3.5	-34.7	+17.3		
		L	11 01 14.6						
		F	" 29 38.9						
93	14 "	P	7 20 09.1					6322	
		Pz	" " 10.1	1.4	-1.4				
		Sz	" 28 02.6	5.5			+6.0		
		L	" 34 33.6						
		F	8 08 18.5						
94	" "	eP	17 58 22.8					66	
		S	" " 31.7						
		F	" 59 27.5						
95	16 "	eP	6 33 57.8					441	
		S	" 34 57.1						
		L	" 35 35.7						
		M	" 47 01.5						

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No.	Date	Phase	Time 135° E			Period	Amplitude			J km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
96	18 June	P	18	23	28.3	2.0		-0.8	-1.0	5256	
		Pz	"	"	29.1	1.2	-1.8	-1.6	+2.3		
		S?	"	31	18.6	3.3					
		F	"	38	57.5						
97	19 "	P	12	55	05.9					2437	
		es	"	59	05.7						
		F	13	07	47.2						
98	" "	ep	17	52	27.7					73	
		S	"	"	37.6						
		F	"	54	08.0						
99	22 "	ep	3	42	27.2					504	
		es	"	43	35.1						
		F	"	54	26.8						
100	23 "	ep	3	01	57.5					~	
		F	"	14	04.4						
101	23 "	ep	14	25	29.3					~	
		el?	"	33	52.0						
		F	"	58	00.9						
102	24 "	ep	15	19	21.0					2814	
		es	"	23	50.3						
		F	"	54	19.0						
103	27 "	P	5	34	45.2					162	
		S	"	35	07.0						
		F	"	37	48.1						
104	28 "	ep	10	03	55.5					~	
		F	"	16	22.0						
105	29 "	lp	17	31	55.8	1.9 <sup>E</sup> 1.8 <sup>Z</sup>	-2.1	+2.6	-2.4	3532	
		lpp	"	33	43.3	2.0 <sup>E</sup> 1.8 <sup>Z</sup>	-5.2	+3.3			
		ls	"	37	14.9	3.7 <sup>E</sup> 3.0 <sup>Z</sup>	+4.3	-21.3	-11.3		
		M	"	"	16.3	4.9 <sup>E</sup>		+37.3	+16.0		
		lss	"	40	46.7	2.6 <sup>F</sup>		-6.6	-5.3		
		el	"	42	52.6						
		F	18	01	22.5						
106	29 "	ep	21	43	12.1					1905	
		es	"	46	26.6						
		F	"	51	52.1						

## SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

19<sup>th</sup> to 31<sup>st</sup> July 1955International  
Seismological  
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No.	Date	Phase	Time 135° E			Period s.	Amplitude			J km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
115	19 July	∞P	10	34	07.6				3521		
		S	"	39	26.0						
		L?	"	41	41.0						
		M	"	42	49.8	18.4		+25		-13	
		C	11	02	41.0						
		F	"	21	31.4						
116	" "	∞P	16	46	41.0				6440		
		∞S	"	54	41.0						
		F	17	27	11.0						
117	21 "	P	15	27	54.2	$\frac{2.4}{2.8}$	+1.4	-2.0	6522		
		S	"	35	58.7	5.9		+6.6			
		∞L	"	42	13.8						
		M <sub>1</sub>	"	48	35.0	18.2	+8	+21		-3.9	
		M <sub>2</sub>	"	53	17.6	16.0	+7	+13		-2.9	
		C	16	07	54.0						
		F	17	02	44.0						
118	23 "	∞P	3	45	15.6				~		
		F	"	54	15.3						
119	24 "	P	19	27	25.0				21		
		S	"	"	27.8						
		F	"	28	10.8						
120	25 "	∞P	4	41	55.6				~		
		F	"	44	45.5						
121	27 "	P	7	07	14.0				16		
		S	"	"	16.2						
		F	"	"	42.8						
122	27 "	P	7	14	50.6				17		
		S	"	"	52.9						
		F	"	15	03.7						
123	" "	P	11	58	37.0				195		
		S	"	59	03.3						
		F	12	01	13.2						
124	29 "	P	6	46	30.1	4.0		+2.6	-1.8	6026	
		S	"	54	07.9	6.9		-1.3	+1.3		
		F	7	34	53.5						
125	31 "	P	15	03	08.9				2131		
		S	"	06	43.6						
		F	"	16	55.5						



# SEISMIC BULLETIN

## NAGASAKI METEOROLOGICAL OBSERVATORY

No. 16

From 13<sup>th</sup> to 24<sup>th</sup> Aug 1934

No.	Date	Phase	Time 135° E			Period s.	Amplitude			J km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
136	13 Aug	P	8	54	390	2.7				2725	
		PM	"	"	51.3	3.6		-12.7	-34.7		
		S	"	59	01.5						
		L	9	04	570						
		F	"	06	426	18.4		+14.0	-16.0		
137	" "	P	9	20	222					333	
		S	"	21	070						
138	" "	EP	9	24	158					2779	
		S	"	28	42.7						
		F	10	02	00.5						
139	18 "	P	11	40	189					744	
		S	"	41	40.3						
		L	"	42	03.5	1.9		+14.0	+13.3		
		M <sub>1</sub>	"	"	11.2	$\frac{E 37.2}{N 27.25}$	+4.4	-9.8	-6.7		
		ZM	"	"	15.0	2.7	-9.3				
		M <sub>2</sub>	"	"	34.9	4.7		-12.8	+11.5		
		M <sub>3</sub>	"	"	51.3	4.3		-8.0	+10.5		
		M <sub>4</sub>	"	43	12.6	4.3		-7.8	+4.2		
		C	"	"	40.6						
		F	12	09	280						
140	" "	P	19	22	42.2					753	
		S	"	24	04.5						
		F	"	28	17.3						
141	22 "	P	4	35	10.5					7584	
		S	"	44	09.7						
		F	5	04	21.0						
142	" "	P	21	58	280					148	
		S	"	"	480						
		F	22	03	020						
143	24 "	EP	7	35	00.5					3695	
		S	"	40	29.8						
		F	"	49	21.0						
144	" "	P	8	58	394					6460	
		S	9	06	40.4						
		F	"	27	21.0						
145	" "	P	18	52	470					25	
		S	"	"	50.3						
		F	"	53	35.2						

## SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

26<sup>th</sup> Aug to 10<sup>th</sup> Sept 1934International  
Seismological  
CentreNo 17  
No.

No.	Date	Phase	Time 135° E	Period	Amplitude			J	Remarks
					Az	AE	AN		
			h. m. s.	s.	μ	μ	μ	km.	
146	26 Aug	eP	18 22 225					~	
		eF	" 34 225						
147	27 "	P	6 02 593					15	
		S	" 03 013						
		F	" " 436						
148	31 "	P	14 14 230	22				3260	
		eS	" 23 560						
		eL	" 32 395						
		F	15 08 275						
149	1 Sept	e	0 21 275					~	
		eF	" 44 275						
150	" "	LP	8 06 017	0.7	-1.4	+1.8	+1.7	159	
		S	" " 231						
		F	" 08 505						
151	" "	P	11 45 224		+2.7		-3.5	195	
		S	" " 487						
		F	" 50 590						
152	" "	eP	20 20 410					~	
		eF	" 26 290						
153	6 "	P	8 54 157					165	
		eS	" " 379						
		F	" 56 359						
154	7 "	eP	0 25 347					291	
		S	" 26 140						
		F	" 28 530						
155	10 "	P	9 45 196					18	
		S	" " 220						
		F	" " 485						
156	" "	P	10 16 447					16	
		S	" " 469						
		F	" 17 345						
157	" "	eP	12 15 284					16	
		S	" " 306						
		F	" " 563						
158	" "	eP	13 36 377					16	
		S	" " 398						
		F	" 37 166						

# SEISMIC BULLETIN

## NAGASAKI METEOROLOGICAL OBSERVATORY



No.	Date	Phase	Time 135° E	Period	Amplitude			J	Remarks
					Az	AE	AN		
159	11 Sept	LP	1 53 08.7	s.	μ	μ	μ	km. 8.2	
		S	" " 19.7						
		F	" " 54 34.7						
160	" "	LP	17 22 51.7					8	
		S	" " 52.8						
		LF	" 23 22.1						
161	" "	LP	18 58 03.0					1.8	
		S	" " 05.4						
		F	" " 30.0						
162	" "	P	18 58 53.0					1.9	
		S	" " 55.6				+7.8		
		F	" 59 58.4						
163	" "	P	19 06 26.8					1.8	
		S	" " 31.2						
		F	" " 58.0						
164	" "	P	20 48 26.5					1.9	
		S	" " 29.0						
		F	" 49 25.6						
165	" "	LP	21 15 44.5					1.9	
		S	" " 47.0						
		LF	" 16 14.2						
166	" "	P	22 27 52.6					1.9	
		S	" " 55.2						
		F	" 29 07.0						
167	12 "	P	0 26 23.8					1.6	
		S	" " 26.0						
		LF	" " 56.4						
168	" "	LP	1 16 36.0					1.7	
		S	" " 38.3						
		F	" 17 08.7						
169	" "	LP	1 31 59.6					1.3	
		S	" 32 01.4						
170	" "	LP	1 32 13.5					1.8	
		S	" " 15.9						
		LF	" " 47.0						

## SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

International  
Seismological  
Centre

No.	Date	Phase	Time 135° E			Period s.	Amplitude			J km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
171	12 Sept	P	8	34	476				475		
		S	"	35	516						
		F	"	39	651						
172	" "	P	10	03	401				12		
		S	"	"	417						
		LF	"	04	121						
173	" "	P	12	53	343				16		
		S	"	"	364						
		F	"	"	570						
174	" "	P	23	20	472				199		
		S	"	21	141						
175	" "	P	23	22	365				265		
		S	"	23	122						
176	" "	P	23	24	439				193		
		S	"	25	099						
177	" "	P	23	27	348				280		
		S	"	28	126						
		SM <sub>E</sub>	"	"	16.1	10.1 E		-160			
		SM <sub>N</sub>	"	"	20.9	8.7 N	+60			-144	
		M <sub>2</sub>	"	29	298	4.7 E N	+52	-102		+116	
		M <sub>3</sub>	"	"	493	4.9 E 5.0 N 5.5 Z	+63	-104		+86	
		M <sub>4</sub>	"	30	243	5.4 E N		-80		+101	
M <sub>5</sub>	"	31	116	4.3 E 3.9 N	-13	+140					
178	" "	P	23	32	504				251		
		S	"	33	243						
179	" "	P	23	41	266				265		
		S	"	42	023						
		F	"	49	348						
180	13 "	P	0	04	015				295		
		S	"	"	412						
		F	"	07	538						
181	" "	P	0	36	270				312		
		S	"	37	090						
		F	"	52	347						

## SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

International  
Seismological  
Centre

No.

No.	Date	Phase	Time 135° E			Period s.	Amplitude			J km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
182	13 Sept	P	1	51	547					279	
		S	"	52	323						
		F	"	54	348						
183	" "	P	2	22	500					247	
		S	"	23	233						
		F	"	25	348						
184	" "	P	2	27	582					13	
		S	"	"	599						
		LF	"	28	248						
185	" "	LP	2	38	581					345	
		LS	"	39	446						
		F	"	43	039						
186	" "	P	2	43	195	2.9			+1.8	252	
		S	"	"	535						
		SM <sub>E</sub>	"	44	213	2.9 <sub>E</sub>	+6.6	+14.0			
		SM <sub>N</sub>	"	"	222	5.4			-10.2		
187	" "	P	3	54	531					186	
		LS	"	55	181						
		F	"	58	348						
188	" "	LP	4	00	465					310	
		S	"	01	283						
189	" "	P	4	02	489					340	
		S	"	03	348						
		F	"	06	348						
190	" "	P	4	08	504					269	
		LS	"	09	266						
		LF	"	10	348						
191	" "	P	4	41	426					298	
		S	"	42	227						
		F	"	48	498						
192	" "	P	5	01	247					269	
		S	"	02	009						



## SEISMIC BULLETIN

## NAGASAKI METEOROLOGICAL OBSERVATORY



No.	Date	Phase	Time 135° E	Period	Amplitude			J	Remarks
					Az	AE	AN		
193	13 Sept	ΔP	5. 02. 387	s.	μ	μ	μ	327	
		ΔS	" 03 227						
		F	" 05 348						
194	" "	ΔP	5 23 072					350	
		ΔS	" " 544						
		F	" 26 150						
195	" "	P	5 35 503					~	
		ΔF	" 38 050						
196	" "	P	6 05 178					~	
		ΔF	" 06 398						
197	" "	ΔP	6 25 355					242	
		S	" 26 080						
198	" "	P	6 27 016					251	
		S	" " 355						
		F	" 32 228						
199	" "	ΔP	6 49 457					~	
		F	" 52 546						
200	" "	ΔP	7 26 452					212	
		S	" 27 137						
		F	" 29 456						
201	" "	P	7 38 407					247	
		S	" 39 140						
		F	" 50 355						
202	" "	ΔP	8 05 553					219	
		S	" 06 248						
		F	" 08 305						
203	" "	P	8 59 453					205	
		ΔS	9 00 129						
		F	" 03 425						
204	" "	ΔP	9 25 230					~	
		F	" 28 155						

## SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY



No.	Date	Phase	Time 135° E			Period s.	Amplitude			J km.	Remarks
			h.	m.	s.		Az μ	AE μ	AN μ		
205	13 Sept	eP	9	29	387				243		
		S	"	30	11.4						
		eF	"	32	355						
206	" "	eP	10	09	512				~		
		F	"	11	505						
207	" "	eP	10	27	520				269		
		S	"	28	283						
		F	"	31	105						
208	" "	eP	11	11	525				248		
		S	"	12	369						
		F	"	13	455						
209	" "	P	12	05	300				220		
		S	"	"	596						
		ME <sub>N</sub>	"	06	355		-26.7	+28.0			
		M <sub>Z</sub>	"	"	374	+8.8					
		C	"	10	202						
		F	"	19	593						
210	" "	eP	12	33	483				~		
		eF	"	36	355						
211	" "	eP	13	49	528				216		
		S	"	50	269						
		eF	"	53	355						
212	" "	eP	14	18	016				273		
		eS	"	"	383						
		eF	"	20	457						
213	" "	P	14	22	130				202		
		eS	"	"	403						
214	" "	P	14	29	172				265		
		S	"	"	523						
		eF	"	32	045						
215	" "	P	14	51	443				238		
		S	"	52	163						
		eF	"	56	005						

## SEISMIC BULLETIN

## NAGASAKI METEOROLOGICAL OBSERVATORY



No.	Date	Phase	Time 135° E			Period s.	Amplitude			J km.	Remarks
			h.	m.	s.		Az μ	Ae μ	An μ		
216	13 Sept	⊥P	15	29	155				258		
		S	"	"	50.2						
		⊥F	"	32	026						
217	" "	⊥P	16	11	003				~		
		⊥F	"	12	355						
218	" "	⊥P	18	46	382				~		
		⊥F	"	48	352						
219	" "	P	19	17	035				217		
		S	"	"	327						
		⊥F	"	27	352						
220	" "	⊥P	19	27	478				257		
		S	"	28	224						
		⊥F	"	29	502						
221	" "	P	20	17	442				245		
		⊥S	"	18	172						
		⊥F	"	19	413						
222	" "	P	20	32	457				195		
		S	"	33	120						
		F	"	35	062						
223	" "	⊥P	20	49	527				273		
		S	"	50	295						
		⊥F	"	53	352						
224	" "	P	22	18	034				284		
		S	"	"	417						
		F	"	21	182						
225	" "	P	23	18	430			+4.2	243		
		⊥S	"	19	157						
		M <sub>N</sub>	"	"	327	8.2		-48.9			
		M <sub>E</sub>	"	"	338						
		C	"	23	138			+49.3			
		F	"	32	049						
226	14 "	⊥P	1	44	455				~		
		⊥F	"	46	572						

No.

From to

## 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		
239	14 Sept	P	18	25	324				219		
		S	"	26	019						
		F	"	34	283						
240	" "	P	21	33	080				215		
		S	"	"	370						
		F	"	37	370						
241	" "	P	21	54	538				212		
		S	"	55	224						
		LF	22	09	480						
242	" "	P	23	53	180				233		
		LS	"	"	494						
		LF	"	55	503						
243	15 "	P	0	11	531				236		
		S	"	12	249						
		F	"	22	274						
244	" "	LP	3	46	103				322		
		LS	"	"	537						
		LF	"	52	370						
245	" "	P	4	37	087				236		
		S	"	"	405						
		F	"	41	203						
246	" "	LP	5	55	568				~		
		LF	"	58	383						
247	" "	P	7	06	559				222		
		S	"	07	258						
		F	"	13	505						
248	" "	P	10	56	490				261		
		S	"	57	242						
		F	11	00	383						
249	" "	P	11	44	431				226		
		S	"	45	135						
		F	"	52	093						
250	" "	P	12	06	136				251		
		S	"	"	475						
		F	"	14	004						

No.

From to

## 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		
251	15 Sept	P	14	52	578				202		
		S	"	53	251						
		F	15	00	383						
252	" "	P	16	41	359				194		
		LS	"	42	021						
		F	"	46	363						
253	" "	P	22	09	100				236		
		S	"	"	417						
		F	"	19	538						
254	16 "	P	1	40	518				248		
		LS	"	41	252						
		F	"	48	489						
255	" "	P	2	30	455				242		
		LS	"	31	180						
		F	"	41	388						
256	" "	P	5	03	447				—		
		F	"	14	388						
257	" "	P	8	21	059				226		
		S	"	"	363						
		F	"	30	505						
258	" "	P	9	52	494				278		
		LS	"	53	268						
		F	"	58	385						
259	" "	P	10	29	458				58		
		S	"	"	536						
		F	"	33	206						
260	" "	P	11	28	348				229		
		S	"	29	057						
		F	"	35	087						
261	" "	LP	13	03	546				249		
		S	"	04	281						
		F	"	07	036						
262	" "	P	18	32	483				250		
		LS	"	33	220						
		F	"	37	292						

No.

From to

## SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY



No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
			h.	m.	s.		Az μ	A E μ	A N μ		
263	16 Sept	P	19	42	317				237		
		S	"	43	036						
		F	"	47	503						
264	" "	P	22	15	522	2.9 <sub>N</sub>		+15	238		
		LS	"	16	242						
		M <sub>EN</sub>	"	"	464	6.9 <sub>E</sub>	+111	-93			
		M <sub>2</sub>	"	"	508		-31				
		C	"	21	265						
		F	"	37	330						
265	17 "	P	0	09	569				231		
		S	"	10	281						
		F	"	19	500						
266	" "	P	4	12	008				228		
		S	"	"	315						
		F	"	23	130						
267	" "	P	6	06	487				286		
		LS	"	07	273						
		LF	"	12	461						
268	" "	P	7	12	266				287		
		LS	"	"	593						
		F	"	26	571						
269	" "	P	10	37	396				222		
		S	"	38	095						
		LF	"	46	102						
270	" "	LP	15	40	559				~		
		LF	"	45	401						
271	" "	P	18	12	494				264		
		LS	"	13	250						
		F	"	39	285						
272	" "	P	22	31	020				273		
		S	"	"	388						
		F	"	36	485						
273	" "	P	22	40	316				240		
		S	"	41	039						
		F	"	50	455						

No.

From to

## SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY



No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
							AZ	AE	AN		
			h.	m.	s.	s.	μ	μ	μ		
274	17 Sept	P	23	35	295					229	
		S	"	36	004						
		F	"	41	125						
275	18 "	P	0	55	474					241	
		LS	"	56	198						
		F	1	00	405						
276	" "	P	2	53	192					298	
		S	"	"	593						
		F	"	57	505						
277	" "	P	3	31	466					288	
		S	"	32	254						
		F	"	40	525						
278	" "	LP	5	47	405					209	
		S	"	48	086						
		F	"	56	177						
279	" "	P	6	10	006					222	
		S	"	"	305						
		F	"	15	462						
280	" "	P	7	52	236					246	
		LS	"	"	567						
		F	8	00	508						
281	" "	P	11	29	571					238	
		S	"	30	291						
		F	"	39	125						
282	" "	LP	12	37	099					~	
		F	"	42	127						
283	" "	LP	13	41	405					188	
		LS	"	42	058						
		F	"	46	485						
284	" "	P	15	15	340					239	
		S	"	16	069						
		F	"	20	087						
285	" "	LP	17	07	561					~	
		F	"	11	095						
286	" "	LP	18	25	237					~	
		F	"	30	520						

No.

From

to



## SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

No.	Date	Phase	Time 135° E			Period s.	Amplitude			$\Delta$ km.	Remarks
			h.	m.	s.		Az $\mu$	AE $\mu$	AN $\mu$		
287	18 Sept	P	20	10	480				229		
		LS	"	11	188						
		F	"	19	240						
288	19 "	P	3	25	232				229		
		S	"	"	54.1						
		F	"	33	511						
289	" "	LP	7	51	176				~		
		LF	"	56	420						
290	" "	LP	10	13	465				247		
		S	"	14	198						
		F	"	19	240						
291	" "	P	11	03	449				190		
		LS	"	04	104						
		F	"	11	110						
292	" "	LP	12	47	451				224		
		LS	"	48	153						
		LF	"	54	500						
293	" "	LP	14	42	509				232		
		S	"	43	22.1						
		F	"	51	420						
294	" "	LP	15	20	290				265		
		LS	"	"	566						
		F	"	24	420						
295	" "	LP	16	49	420				~		
		LF	"	55	420						
296	" "	P	18	13	169				286		
		LS	"	"	554						
		F	"	18	420						
297	" "	P	19	48	022				~		
		LF	"	55	324						
298	20 "	P	2	46	017				238		
		S	"	"	337						
		F	"	56	141						
299	" "	LP	3	57	324				~		
		F	4	01	126						



No.

From to

## SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY



No.	Date	Phase	Time 135° E			Period s.	Amplitude			$\Delta$ km.	Remarks
			h.	m.	s.		AZ $\mu$	AE $\mu$	AN $\mu$		
300	20 Sept	eP	7	53	225				~		
		eF	8	01	420						
301	" "	P	10	06	225				211		
		S	"	"	509						
		F	"	15	420						
302	21 "	eP	6	15	521				~		
		eF	"	18	440						
303	" "	P	10	56	130				339		
		eS	"	"	587						
		eF	11	01	440						
304	" "	eP	21	46	509				~		
		eF	"	48	400						
305	23 "	P	3	48	458				7		
		eS	"	"	467						
		F	"	49	345						
306	24 "	eP	13	57	470				~		
		eF	14	01	590						
307	" "	P	21	38	413				7		
		S	"	"	423						
		eF	"	39	037						
308	26 "	iP	4	22	201				5107		
		eS	"	29	082						
		F	"	40	485						
309	" "	P	19	04	569				262		
		eS	"	05	322						
		F	"	09	345						
310	30 "	P	1	51	413				25		
		S	"	"	446						
		F	"	54	265						
311	" "	P	13	26	058				25		
		S	"	"	092						
		eF	"	28	175						

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.

Oct 1934

## INSTRUMENTAL CONSTANTS

No 31	INSTRUMENT	COMPONENT	MASS	DAMPING	To	$\frac{r}{T_0^2}$	$\epsilon$	V
	Wiechert	E-W	200	Air	4.6	0.020	25	71
		N-S	"	"	4.6	0.013	25	71
	Wiechert	U-D	80	"	4.1	0.045	24	60
	Omori	E-W	16	Magnetic				
	Omori	N-S	16	"				

No.	Date	Phase	Time 135° E			Period	Amplitude			$\Delta$	Remarks
			h.	m.	s.		AZ	AE	AN		
						s.	$\mu$	$\mu$	$\mu$	km.	
312	2 Oct	$\Delta P$	14	38	498					1.6	
		S	"	"	520						
		$\Delta F$	"	39	273						
313	3 "	P	20	44	031					21.9	
		S	"	"	326						
		$\Delta F$	"	47	228						
314	6 "	P	5	29	064					190.4	
		$\Delta S$	"	32	208						
		$\Delta F$	"	46	030						
315	7 "	P	16	51	377					30.5	
		S	"	52	188						
		$\Delta F$	"	54	447						
316	8 "	$\Delta P$	3	03	295					28.3	
		S	"	04	026						
		$\Delta F$	"	07	055						
317	10 "	$\Delta P$	12	59	440					~	
		$\Delta F$	13	04	080						
318	11 "	$\Delta P$	0	52	480	2.9 <sub>EN</sub>	+4.2	-2.8		735.8	
		S	1	01	354	2.7	-9.9				
		SME	"	"	393	4.9	140.8				
		SMN	"	"	401	3.7		-10.0			
		$\Delta F$	"	28	082						
319	14 "	$\Delta P$	10	31	071					15.4	
		S	"	"	278						
		F	"	31	593						
320	15 "	$\Delta P$	17	30	039						
		$\Delta S$	"	"	591						
		F	"	36	412						
321	" "	P	17	53	458					4.5	
		S	"	"	518						
		F	"	54	555						

No.

From

to



## SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

No.	Date	Phase	Time 135° E			Period	Amplitude			Δ km.	Remarks
			h.	m.	s.		μ	μ	μ		
322	18 Oct	P	13	44	005				80		
		S	"	"	113						
		LF	"	47	125						
323	" "	P	16	57	565				6093		
		S	17	05	377						
		F	"	27	410						
324	22 "	P	2	58	020				1780		
		LS	3	01	050						
		LF	"	24	000						
325	23 "	P	16	46	383				135		
		LS	"	"	565	1.0 EN	+2.2	-3.8		+5.2	
		F	"	48	470						
326	26 "	P	23	51	086				3464		
		S	"	56	232						
		F	27	0	095						
327	27 "	LP	2	12	064	1.6 EN 1.4 Z	-8.9	+113	-176	313	
		M	"	"	095	3.3 EN	?	+170	-275		
		S	"	"	485	2.6 EZ	-3.4	+225			
		M <sub>N</sub> E	"	13	366	4.2 N 5.2 E		-134	+292		
		M <sub>Z</sub>	"	"	408		-117				
		M <sup>2</sup> E	"	"	577	3.3		+353			
		M <sub>N</sub>	"	"	582				+70		
		M <sub>Z</sub>	"	"	586	4.4	-127				
		C	"	15	516						
F	"	52	095								
328	" "	P	5	52	012				310		
		S	"	"	430						
		F	"	57	447						
329	" "	LP	9	37	454				~		
		F	"	41	100						
330	" "	P	14	15	090				18		
		S	"	"	114						
		F	"	16	100						

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From

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## 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		
331	27 Oct	P	19	39	488				79		
		S	"	"	595						
		F	"	42	090						
332	" "	P	21	39	433				121		
		S	"	"	596						
		F	"	42	162						
333	28 "	P	2	05	012				100		
		S	"	"	146						
		F	"	07	220						
334	29 "	LP	8	38	480				1342		
		IP	"	"	505						
		LS	"	41	137						
		F	"	57	065						
335	31 "	P	2	02	003				11		
		S	"	"	018						
		F	"	"	251						
336	4 Nov	P	11	04	469				7774		
		S	"	13	556						
		F	"	23	585						
337	" "	P	12	25	277				7604		
		S	"	34	279						
		F	"	47	585						
338	5 "	LP	2	18	312				~		
		LF	"	21	137						
339	" "	P	4	36	441				26		
		S	"	"	476						
		F	"	38	035						
340	" "	P	4	52	478				20		
		S	"	"	505						
		F	"	53	497						

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From to

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## SEISMIC BULLETIN

## NAGASAKI METEOROLOGICAL OBSERVATORY

No.	Date	Phase	Time 135° E			Period	Amplitude			d km.	Remarks
							Az μ	AE μ	AN μ		
341	6 Nov	LP	8	10	286	3.9 EN		+1.4	+0.9	4771	
		S	"	16	584						
		SM	"	17	168	5.3 E		+7.0	-6.8		
		F	"	39	555						
342	8 "	LP	12	29	510					~	
		LF	"	35	510						
343	12 "	LP	6	22	395					~	
		LF	"	29	395						
344	14 "	P	21	18	096					82	
		S	"	"	207						
		F	"	19	417						
345	16 "	LP	22	50	543					2688	
		LS	"	55	141						
		LL	"	58	591						
		F	23	19	245						
346	18 "	LP	12	30	180					~	
		LL	"	36	275						
		LF	"	43	180						
347	" "	P	18	24	481					~	
		LF	"	28	175						
348	19 "	LP	7	43	120	3.4 EN	+1.4	-2.9	+2.1	3470	
		LS	"	53	270						
		LL	"	57	511						
		F	8	08	155						
349	22 "	LP	16	24	176					~	
		F	"	25	299						
350	24 "	LP	19	11	372					~	
		F	"	13	560						
351	26 "	LP	21	13	487					2437	
		LS	"	17	485						
		F	"	30	485						
352	27 "	L	14	53	565					~	
		LF	"	57	460						

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## SEISMIC BULLETIN

NAGASAKI METEOROLOGICAL OBSERVATORY

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		Az μ	ΔE μ	ΔN μ		
353	27 Nov	LP	15	20	258				3134		
		LS	"	25	184						
		FF	"	41	460						
354	30 "	L	11	23	360				~		
		FF	12	45	360						
355	3 Dec	P	12	27	505				200		
		LS	"	28	175						
		FF	"	31	230						
356	" "	P	13	33	075				27		
		S	"	"	11.1						
		FF	"	"	554						
357	7 "	LP	19	45	129				~		
		FF	"	56	070						
358	10 "	P	19	02	575				3240		
		LS	"	07	575						
		LF	"	22	575						
359	12 "	P	17	51	278				~		
		LF	18	23	500						
360	13 "	LP	8	37	598				~		
		FF	"	40	107						
361	15 "	P	11	04	279				3571		
		LS	"	09	493						
		LL	"	12	089						
		NM <sub>1</sub>	"	16	519	16.9 N		-69			
		EM <sub>2</sub>	"	19	061	11.6 E	-10	+30			
		NM <sub>2</sub>	"	"	072	10.1 Z		-64			
		C	"	27	513	12.6 N					
		FF	12	04	395						
362	16 "	P	4	25	118				7322		
		S	"	33	574						
		LF	"	42	365						
363	" "	LP	14	45	487				~		
		FF	"	51	340						
364	17 "	P	12	38	486				~		
		LF	"	52	462						

No.

From to



## 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		
365	18 Dec	P	1	00	108				3650		
		LS	"	05	373						
		LL	"	09	197						
		F	"	39	305						
366	" "	L	20	41	135				~		
		LF	"	48	270						
367	19 "	LP	5	35	396				142		
		S	"	"	586						
		F	"	37	496						
368	" "	LP	15	52	310				143		
		S	"	"	503						
		F	"	54	529						
369	21 "	LP	21	21	123				38		
		S	"	"	174						
		F	"	"	543						
370	23 "	P	16	13	499				217		
		S	"	14	192						
		F	"	15	489						
371	25 "	L	0	41	246				~		
		LF	"	52	055						
372	" "	LP	3	52	292				29		
		S	"	"	331						
		F	"	53	065						
373	" "	LP	15	31	550				2028		
		LS	"	35	542						
		F	"	55	050						
374	" "	L	16	57	305				~		
		LF	17	05	025						
375	" "	L	21	54	316				~		
		LP	22	01	531						