

# NAGOYA JAPAN

January 1920



## SEISMOLOGICAL BULLETIN

No.	Date.	Phase.	Time.	Period	Amplitude			△ km.	Remarks
					A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
			h m s	s					
8	January 19	ep	15 50 364					421	
		S	15 51 345						
		F	15 52 34-						
9	21	e	22 11 012						
		F	22 13 34-						
10	21	e	23 01 528						
		F	23 06 42-						
11	25	e	9 44 395						
		F	9 50 49-						
12	ep	ep	20 43 229					395	
		S	20 44 164						
		ME	20 44 391		-19				
		MN	20 44 320			-20			
		F	20 49 31-						
13	26	e	21 24 362						
		F	21 22 37-						
14	27	e	19 38 201						
		F	19 40 34-						
15	28	ep	22 10 425					122	
		S	22 10 542						
		F	22 12 11-						
16	31	e	3 20 569						
		F	3 24 34-						



7 February 1950



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

of the Aitiken Meteorological Observatory of Japan.

$\phi = 35^{\circ}10'$      $\lambda = 136^{\circ}58'$      $h = 51,^m7$

Wiechert Seismograph.  
(Horizontal and Vertical)

Omori's Seismograph.  
(Horizontal Pendulum)

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	57	64	0018	64
AE:	54	51	0017	64
AZ:	22	40	0023	61

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	4		006	40
AE:	4		006	40
AZ:				

No.	Date.	Phase.	Time.	Period	Amplitude			$\Delta$	Remarks
					AE	AN	Az		
			h m s	s	$\mu$	$\mu$	$\mu$	km.	
17	February 12	eP	8 08 267	25	-28	-48		408	
		S	8 09 217						
		ME	8 09 428						
		MN	8 09 295						
		F	8 15 26-						
18	3	eP	7 02 296		$\pm 12$			345	
		S	7 03 141						
		ME	7 03 216						
		F	7 07 240						
19	5	eP	13 00 223					910	
		S	13 02 115						
		F	13 04 15-						
20	5	eP	22 29 542	28	-14	+17		860	
		S	22 31 245						
		ME	22 31 522						
		MN	22 31 476						
		F	22 35 47-						
21	7	eP	11 41 084					157	
		S	11 41 285						
		F	11 44 19-						
22	7	eP	12 34 458					128	
		S	12 35 228						
		F	12 41 19-						



February 1950



International  
Seismological  
Centre

**NAGOYA JAPAN**

**SEISMOLOGICAL BULLETIN**

No.	Date.	Phase.	Time.	Period	Amplitude			△ km.	Remarks
					A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
23	Feb. 11	eP	9 12 351					180	
		S	9 12 593						
		ME1	9 13 504		+286				
		MN1	9 13 063	27		+312			
		ME2	9 13 553	27	+283				
		MN2	9 14 119	27		+254			
		Mz	9 14 119	22			+87		
F	9 24 40-								
24	14	eP	5 18 40-						
		S	5 19 206						
		F	5 20 33-						
25	15	e	10 27 106						
		F	10 31 06-						
26	20	e	11 29 204						
		F	11 31 28-						
27	20	eP	13 46 413					228	
		S	13 47 119						
		F	13 49 38-						
28	21	eP	8 37 297		+5	+3	+11	168	
		S	8 37 623						
		MN	8 37 585			-99			
		ME	8 38 165	13	+64				
		Mz	8 38 209	13			+26		
		F	8 45 20-						
29	21	e	22 12 401						
		F	22 15 19-						
30	21	e	22 45 100						
		F	22 47 05-						
31	21	e	23 10 264						
		F	23 11 55-						
32	22	eP	6 55 630					181	
		S	6 55 594						
		F	6 58 51-						



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## SEISMOLOGICAL BULLETIN

No.	Date.	Phase.	Time.	Period	Amplitude			△ km.	Remarks
					A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
33	February 22	e	8 30 41.4						
		F	8 31 24-						
34	22	ep	9 08 48.7				195		
		S	9 09 122						
		F	9 12 029						
35	22	e	12 50 159						
		F	12 53 24-						
36	22	ep	14 48 371				193		
		S	14 49 003						
		F	14 54 20-						
37	22	ep	18 22 143				183		
		S	18 22 389						
		F	18 24 190						
37	22	e	18 26 022						
		F	18 27 022						
40	22	e	18 37 071						
		F	18 38 02-						
41	22	ip	20 22 232		-5	-5	73	184	
		S	20 22 480						
		ME	20 23 057		-45				
		MN	20 23 069	2.8		±60			
		Mz	20 23 136	2.0			±13		
		F	20 31 02-						
42	22	e	20 30 521						
		F	20 41 10-						
43	23	e	8 20 485						
		F	8 22 09-						
44	23	e	8 15 465						
		F	8 16 48-						
45	23	e	10 22 214						
		F	10 25 02-						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					AE	AN	Az		
			n m s	s	μ	μ	μ	km.	
46	27	e	16 58 05 <sup>+</sup>						
		F	16 58 27 <sup>-</sup>						
47	27	e	14 16 02						
		F	17 22 17 <sup>-</sup>						
48	28	e	19 37 22						
		F	19 38 55 <sup>-</sup>						
49	24	e	5 13 23 <sup>+</sup>						
		F	5 14 30 <sup>-</sup>						
50	22	e	5 36 50 <sup>+</sup>						
		F	5 41 18 <sup>-</sup>						
51	24	e	5 53 45 <sup>+</sup>						
		F	5 56 25 <sup>-</sup>						
52	24	e	19 49 21 <sup>+</sup>						
		F	19 52 28 <sup>+</sup>						
53	25	ep	5 57 44 <sup>+</sup>				11.00		
		S	5 58 36.0						
		F	6 06 40 <sup>-</sup>						
54	28	e	8 39 20 <sup>+</sup>						
		F	8 51 28 <sup>+</sup>						
55	28	ep	8 31 28 <sup>+</sup>		-7	-5	+5		
		S	8 31 51 <sup>+</sup>						
		M <sub>1</sub>	8 31 50 <sup>+</sup>		±13				
		M <sub>2</sub>	8 32 25 <sup>+</sup>			±40			
		M <sub>F</sub>	8 32 31 <sup>+</sup>	1 <sup>+</sup>		±13			
		F	8 37 51 <sup>+</sup>						
56	28	e	4 11 02						
		F	4 13 15 <sup>-</sup>						



March 1950



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## SEISMOLOGICAL BULLETIN

of the Aitiken Meteorological Observatory of Japan.

$\phi = 35^{\circ}10'$      $\lambda = 136^{\circ}58'$      $h = 51.7^m$

Wiechert Seismograph.  
(Horizontal and Vertical)

Omori's Seismograph.  
(Horizontal Pendulum)

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V		$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	57	54	0018	64	AN:	4		003	40
AE:	59	51	0017	64	AE:	12		001	10
AZ:	22	50	0008	84					

No.	Date.	Phase.	Time.	Period	Amplitude			$\Delta$	Remarks
					AE	AN	Az		
			h m s	s	$\mu$	$\mu$	$\mu$	km.	
56	1	ep	22 38 127					180	
		S	22 38 373						
		F	22 41 41-						
57	1	e	23 52 41						
		F	23 53 48-						
58	1	e	23 57 236						
		F	23 58 48-						
59	2	ep	2 43 18					240	
		S	2 43 509						
		F	2 48 44-						
60	2	e	12 27 178						
		F	12 31 50-						
61	3	ep	21 14 530					173	
		S	21 15 182						
		MN	21 15 230						
		ME	21 15 338						
		F	21 19 450						
62	3	ep	22 04 180					200	
		S	22 05 150						
		F	22 08 08-						
63	4	ep2	3 51 057					164	
		S2	3 51 278						
		M2	3 51 503						
		F	3 54 58-						



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International  
Seismological  
Centre

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## SEISMOLOGICAL BULLETIN

No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					AE	AN	Az		
			n m s	s	μ	μ	μ	km.	
64	4	iP	5 11 34.5		-12			162	
		S	5 11 52.3						
		M <sub>2</sub>	5 12 15.3				±18		
		MN	5 12 16.5			-63			
		ME	5 12 30.3		±62				
		F	5 18 45-						
65	4	e	23 16 52.3						
		F	23 19 21-						
66	4	e	23 49 19.5						
		F	23 51 22.8						
67	5	eP	0 09 00.5				212		
		S	0 09 29.0						
		F	0 12 06-						
68	5	e	19 37 07.2						
		F	19 38 06-						
69	5	e	22 17 07.2						
		F	22 19 00-						
70	5	e	22 22 01.0						
		F	22 23 02-						
71	6	eP	1 00 22.5				170		
		S	1 00 55.4						
		F	1 02 41-						
72	6	e	1 17 57.0						
		F	1 19 41-						
73	6	e	1 53 15.4						
		F	1 55 14-						
74	6	iP	12 33 34.1		-6	-6	+2	850	
		S	12 35 06.2						
		ME	12 35 09.2		-48				
		MN	12 35 09.3	51		±53			
		M <sub>2</sub>	12 35 18.0	19			-13		
		F	12 41 09-						



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No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
75	7	e	0 47 20.8						
		F	0 48 39-						
76	7	e	0 52 22.2						
		F	0 53 39-						
77	7	e	1 01 20.6						
		F	1 02 39-						
78	7	e	15 04 27.0						
		F	15 06 38-						
79	7	e	19 54 21.7						
		F	19 58 58-						
80	8	ep	5 46 22.2					165	
		S	5 46 24.4						
		F	5 48 06-						
81	8	ep	8 27 02.5					1250	
		S	8 29 16.6						
		F	8 42 26-						
82	8	ep	20 53 48.8					174	
		S	20 54 12.2						
		F	20 58 58-						
83	8	e	22 17 29.0						
		F	22 20 36-						
84	8	e	22 47 16.2						
		F	22 49 36-						
85	9	ep	1 27 54.4					171	
		S	1 28 14.4						
		F	1 47 54-						
86	9	ip	4 40 08.8		-12	-5	+5	175	
		S	4 40 22.3						
		ME	4 40 33.4	14	738				
		MN	4 40 33.4			+48			
		MZ	4 40 50.7	13			± 19		
		F	4 45 36-						



March 1930

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## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
87	9	e	10 50 57.7						
		F	10 53 35-						
88	9	e	17 41 42						
		F	17 50 35-						
89	9	e	18 18 57.5						
		F	18 41 35-						
90	9	e	18 38 40.4						
		F	18 37 35-						
91	9	ep	18 42 3.16					820	
		S	18 44 0.10						
		F	18 48 35-						
92	9	e	19 0.2 56.7						
		F	19 06 31-						
93	9	ep	19 55 03.8					162	
		S	19 58 25.8						
		ME	19 55 26.7				732		
		MN	19 58 32.2	2.8		±102			
		ME	19 56 22.2		±101				
		F	20 03 35-						
94	9	e	20 14 14.2						
		F	20 19 35-						
95	10	e	5 23 34.4						
		F	5 26 34-						
96	10	e	6 49 25.5						
		F	6 50 27-						
97	10	e	7 49 14.7						
		F	7 51 33-						
98	10	ep	14 54 27.9					183	
		S	14 52 52.6						
		F	14 57 33-						



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## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
97	10	e	22 45 42-						
		F	22 48 20						
100	11	eP	0 44 500					180	
		S	0 45 144						
		F	0 47 52-						
101	11	eP	1 8 581					2245	
		S	1 22 419						
		ME	1 22 509	21	+58				
		MN	1 22 599	24		-54			
		Mz	1 22 589	19			± 17		
		F	1 48 21-						
102	11	e	2 38 162						
		F	2 39 33-						
103	11	e	22 41 275						
		F	22 44 55-						
104	11	e	23 18 201						
		F	23 20 24-						
105	12	e	1 41 312						
		F	1 46 31-						
106	12	e	8 50 282						
		F	8 52 48-						
107	12	eP	12 41 558						
		S	12 41 198						
		F	12 54 04-						
108	12	e	21 15 230						
		F	21 17 04-						
109	12	e	21 30 120						
		F	21 31 50-						
110	12	e	21 41 524						
		F	21 47 57-						



March 1930

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## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
111	12	e	21 59 52.7						
		F	22 00 55-						
112	12	e	22 45 57.0						
		F	22 45 58-						
113	12	e	23 26 46.0						
		F	23 28 15-						
114	13	e	3 19 52.5						
		F	3 21 55-						
115	13	SN	4 30 01.1		-11		+5	161	
		SN	4 30 22.7						
		M <sub>2</sub>	4 30 52.8				+16		
		MN	4 30 58.1			-52			
		FN	4 37 21-						
116	13	e	6 34 04.2						
		F	6 35 16-						
117	14	ep	14 19 55.5					184	
		S	14 20 20.5						
		MN	14 20 24.5-				±33		
		ME	14 20 53.7		+29				
		F	14 26 25-						
118	14	e	15 21 15.2						
		F	15 24 43-						
119	14	e	17 14 11.2						
		F	17 16 34-						
120	14	ep	21 05 31.7					171	
		S	21 05 54.7						
		F	21 08 25-						
121	14	e	22 18 40.8						
		F	22 21 50-						



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# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					AE	AN	Az		
			n m s	s	μ	μ	μ	km.	
122	15	iP	16 34 184		-6	-5	+5	171	
		S	16 34 414						
		ME	16 35 119		-59				
		MN	16 35 119	28		±25			
		M3	16 35 043	12			±16		
		F	16 40 51-						
123	16	e	1 08 588						
		F	1 11 12-						
124	16	e	11 21 045						
		F	11 22 09-						
125	16	e	14 04 23-?						
		F	14 10 51-						
126	17	e	1 32 424						
		F	1 34 09-						
127	17	ep	2 09 088				179		
		S	2 09 229						
		F	2 11 39-						
128	18	ep	2 11 595				174		
		S	2 12 229						
		F	2 16 09-						
129	18	ep	2 46 466				202		
		S	2 47 139						
		F	2 50 03-						
130	19	iP	9 16 131		-8	-	+5	175	
		S	9 16 266						
		M3	9 16 410				±9		
		MN	9 16 520	12		±24			
		ME	9 17 062	18		-29			
		F	9 25 51-						



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# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					AE	AN	Az		
			h m s	s	μ	μ	μ	km.	
131	21	ep	8 39 25					171	
		S	8 39 42						
		F	8 42 30-						
132	21	e	22 48 47						
		F	22 50 01-						
133	21	LP	23 24 38		-13	-8	+8	197	
		S	23 25 49						
		MN	23 25 25	19		-48			
		ME	23 25 27	17					
		ME	23 25 36		-35				
		F	23 32 09-						
134	22	ep	17 02 54					700	
		S	17 04 14						
		F	17 07 08-						
135	22	LP	17 54 06		+26	+26	-13	176	
		S	17 54 49						
		MN1	17 54 33	31		+612			
		MN2	17 54 55	35		+453			
		ME2	17 54 55		-26				
		ME	17 54 54	11			-129		
		ME1	17 54 58		-341				
F	18 06 28-								
136	22	ep	21 05 34					168	
		S	21 06 14						
		F	21 07 25-						
137	24	ep	0 25 07					318	
		S	0 25 54						
		F	0 28 08-						
138	26	e	10 21 28						
		F	10 24 04-						
139	24	e	14 42 15						
		S	14 44 04-						
140	24	e	15 31 28						
		F	15 33 04-						



March 1930

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.			Period	Amplitude			Δ	Remarks
							AE	AN	Az		
			h	m	s	s	μ	μ	μ	km.	
141	24	ep	15	49	500						
		F	15	52	340						
142	24	e	15	56	374						
		F	15	58	01-						
143	25	e	22	11	407						
		F	22	13	38-						
144	25	e	22	22	427						
		F	22	28	01-						
145	25	e	22	40	401						
		F	22	42	51-						
146	26	e	2	02	04.0						
		F	2	04	17-						
147	26	e	3	16	000						
		F	3	17	500						
148	26	e	3	29	361						
		F	3	31	52-						
149	26	ip	14	23	147		+4	+5	-2	169	
		S	14	23	375						
		MN	14	23	415			+105			
		ME	14	24	119		-101				
		M2	14	24	152				-29		
		F	14	34	12-						
150	26	ep	16	20	136						
		L	16	26	480						
		F	17	00	19-						
151	26	e	20	40	184						
		F	20	45	41-						
152	27	ip	1	42	016					158	
		S	1	42	257						
		MN	1	42	309	38		+146			
		ME	1	43	016		±87				
		M2	1	43	037	14			+27		
		F	1	53	18-						



March 1960

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.			Period	Amplitude			Δ km.	Remarks
							AE	AN	Az		
							μ	μ	μ		
153	March 27	e	2	51	14'						
		F	2	34	16-						
154	27	e	11	44	057						
		F	11	49	14-						
155	29	e	2	46	520						
		F	2	48	22-						
156	29	e	2	50	348						
		F	2	58	4-						
157	29	e	3	12	040				214		
		S	3	12	228						
		F	3	17	17-						
158	29	ef	4	04	577				163		
		S	4	05	107						
		F	4	07	52-						
159	29	e	5	11	284						
		F	5	12	52-						
160	29	ef	9	56	102				368		
		S	9	58	577						
		F	10	00	44-						
161	30	ef	0	06	517				187		
		S	0	07	163						
		F	0	10	00-						
162	30	ef	5	25	063						
		S	5	25	146						
		F	5	27	01						
163	30	ef	5	40	225				174		
		S	5	40	587						
		F	5	48	17-						
164	30	ef	14	08	122				282		
		S	14	07	501						
		F	12	14	21-						



March 1950

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



International  
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No.	Date.	Phase.	Time.	Period	Amplitude			$\Delta$	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			n m s	s	$\mu$	$\mu$	$\mu$	km.	
166	March 30	L	17 29 183						
		F	15 20 42-						
166	31	ep	5 10 311					364	
		S	5 11 199						
		F	5 13 16-						
167	31	ep	18 01 205					193	
		S	18 01 485						
		F	18 04 31-						
		=							







April 1952

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time. h m s	Period s	Amplitude			$\Delta$ km.	Remarks
					A <sub>E</sub> $\mu$	A <sub>N</sub> $\mu$	A <sub>Z</sub> $\mu$		
177	10	21	8 07 26				277		
		S	8 07 26						
		M <sub>1</sub>	8 07 26						
		M <sub>2</sub>	8 07 26						
		F	8 07 26						
178	10	21	8 10 26						
		F	8 10 26						
179	10	21	8 12 26				160		
		S	8 12 26						
		F	8 12 26						
180	10	21	8 14 26						
		F	8 14 26						
181	10	21	8 16 26						
		F	8 16 26						
182	10	21	8 18 26						
		F	8 18 26						
183	10	21	8 20 26						
		F	8 20 26						
184	10	21	8 22 26						
		F	8 22 26						
185	10	21	8 24 26						
		F	8 24 26						
186	10	21	8 26 26						
		F	8 26 26						



May 1920

# NAGOYA JAPAN

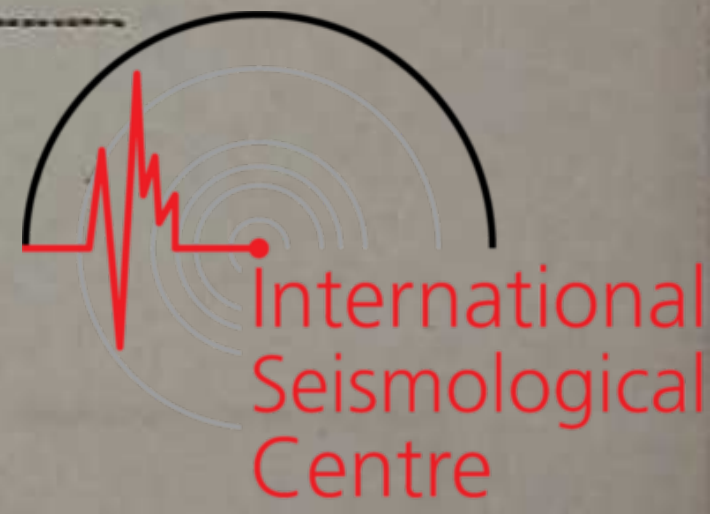
## SEISMOLOGICAL BULLETIN

of the Aitiken Meteorological Observatory of Japan.

$\phi = 35^{\circ}10'$      $\lambda = 136^{\circ}58'$      $h = 51.7^m$

Wiechert Seismograph.  
(Horizontal and Vertical)

Omori's Seismograph.  
(Horizontal Pendulum)



	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	57	6	0.02	71
AE:	58	6	0.02	71
AZ:	53	6	0.02	62

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	20	3	0.02	20
AE:	20	4	0.02	20

No.	Date.	I hase.	Time.	Period	Amplitude			$\Delta$	Remarks
					AE	AN	Az		
			u m s	s	$\mu$	$\mu$	$\mu$	km.	
184	1	ep	9 58 49					58	
		S	9 59 24						
		ME	10 00 24						
		MN	10 00 14	46					
		Mz	9 59 58				+45		
		F	unknown						
184	1	ep	9 58 49					57	Omori's Seismograph
		S	9 59 24						
		ME	9 59 24		-99				
		MN	10 00 14			+100			
		F	unknown						
185	1	e	10 16 45						
		F	10 20 47						
186	1	ep	10 21 27					52	
		S	10 22 04						
		Mz	10 22 29				+45		
		F	10 23 02						
186	1	ep	10 21 27					52	Omori's Seismograph
		S	10 22 10						
		ME	10 22 14						
		MN	10 22 43						
		F	10 21 27						
187	2	e	9 44 16						
		F	9 46 24						
188	2	e	20 02 43						
		F	20 03 54						



# NAGOYA JAPAN

May 1930

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.			Period	Amplitude			Δ	Remarks
							AE	AN	Az		
							μ	μ	μ		
			n	m	s	s			km.		
189	May 4	e	21	58	116						
		F	21	59	50-						
190	5	ep	1	58	547				243		
		S	1	59	294						
		F	2	01	54-						
191	5	ep	22	58	454				4420		
		S	22	59	292						
		L	22	07	268						
		MN	22	08	288	132		+134			
		MZ	22	11	190	120		+144	+13		
		ME	22	11	197	113	-197				
		F	0	02	48-						
192	6	ep	4	58	288				197		
		S	4	58	529						
		F	4	59	54-						
193	6	e	7	49	266						
		F	7	51	10-						
194	7	e	6	41	276						
		F	6	43	27-						
195	7	epE	7	45	287				9800		
		S	7	54	290						
		L	7	10	410						
		F	7	48	24-						
196	7	epE	7	50	262				192		
		S	7	50	290						
		F	7	54	17-						
197	8	epE	5	28	260				171		
		S	5	28	260						
		F	5	22	16-						
198	8	epE	5	41	440				170		
		S	5	42	272						
		F	5	47	18-						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

May 1953



No.	Date.	Phase.	Time.	Period	Amplitude			$\Delta$	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					$\mu$	$\mu$	$\mu$		
			n m s	s			km.		
19	1		4 17 0						
			4 17 0						
20	1		4 17 30						
			4 17 30						
21	1		4 18 0						
			4 18 0						
22	1		4 18 30						
			4 18 30						
23	1		4 19 0						
			4 19 0						
24	1		4 19 30						
			4 19 30						
25	1		4 20 0						
			4 20 0						
26	1		4 20 30						
			4 20 30						
27	1		4 21 0						
			4 21 0						
28	1		4 21 30						
			4 21 30						
29	1		4 22 0						
			4 22 0						
30	1		4 22 30						
			4 22 30						
31	1		4 23 0						
			4 23 0						
32	1		4 23 30						
			4 23 30						
33	1		4 24 0						
			4 24 0						
34	1		4 24 30						
			4 24 30						
35	1		4 25 0						
			4 25 0						
36	1		4 25 30						
			4 25 30						
37	1		4 26 0						
			4 26 0						
38	1		4 26 30						
			4 26 30						
39	1		4 27 0						
			4 27 0						
40	1		4 27 30						
			4 27 30						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					μ	μ	μ		
			h m s	s			km.		
211	7	SP	1 0 14		-1		11		
		S	1 11 14						
		F	1 12 14						
212	7	SP	5 11 14				11		
		S	5 11 14						
		F	5 12 14						
213	7	SP	2 11 14						
		F	2 11 14						
214	7	SP	4 11 14				11		
		S	4 11 14						
		F	4 11 14						
215	7	SP	6 11 14				11		
		S	6 11 14						
		F	6 11 14						
216	7	SP	8 11 14				11		
		S	8 11 14						
		F	8 11 14						
217	7	SP	10 11 14				11		
		S	10 11 14						
		F	10 11 14						
218	7	SP	12 11 14				11		
		S	12 11 14						
		F	12 11 14						
219	7	SP	14 11 14				11		
		S	14 11 14						
		F	14 11 14						
220	7	SP	16 11 14				11		
		S	16 11 14						
		F	16 11 14						
221	7	SP	18 11 14				11		
		F	18 11 14						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

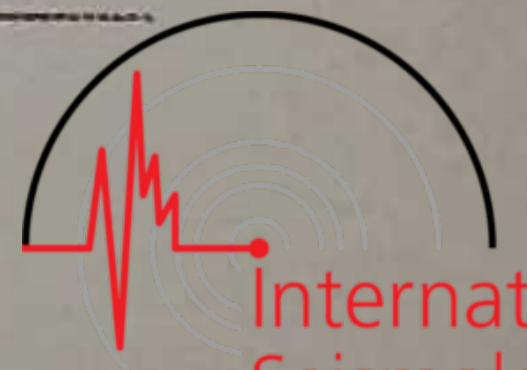


No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					AE	AN	Az		
					μ	μ	μ		
			n m s	s			km.		
222	10	P	21 28 16						
		S	21 28 16						
223	10	P	21 28 27						
		S	21 28 27						
224	10	P	21 28 47						
		S	21 28 47						
225	10	P	21 29 07						
		S	21 29 07						
226	10	P	21 29 27						
		S	21 29 27						
227	10	P	21 29 47						
		S	21 29 47						
228	10	P	21 29 67						
		S	21 29 67						
229	10	P	21 30 07						
		S	21 30 07						
230	10	P	21 30 27						
		S	21 30 27						
231	10	P	21 30 47						
		S	21 30 47						
232	10	P	21 31 07						
		S	21 31 07						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



International  
Seismological  
Centre

No.	Date.	Phase.	Time.			Period	Amplitude			Δ	Remarks
							A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h	m	s		s	μ	μ		
203	10	245	22	27	26				170		
		S	22	27	26						
		F	22	28	26						
204	11	245	0	11	26				160		
		S	0	11	26						
		F	0	11	26						
205	11	245	0	21	27						
		S	0	21	27						
		F	0	21	27						
206	11	245	0	22	27				162		
		S	0	22	27						
		F	0	22	27						
207	11	245	0	27	27				161		
		S	0	27	27						
		F	0	27	27						
208	11	245	0	28	27				170		
		S	0	28	27						
		F	0	28	27						
209	11	245	0	32	27						
		S	0	32	27						
		F	0	32	27						
210	11	245	0	32	27						
		S	0	32	27						
		F	0	32	27						
211	11	245	0	32	27						
		S	0	32	27						
		F	0	32	27						
212	11	245	21	27	15	17	10	10	170		
		S	21	27	15						
		M <sub>1</sub>	21	27	15			17			
		M <sub>2</sub>	21	27	15			17			
		M <sub>3</sub>	21	27	15	17					
		F	21	27	15						
213	11	245	11	22	27				161		
		S	11	22	27						
		F	11	22	27						



May 1920

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					AE	AN	Az		
					μ	μ	μ		
			n m s	s					
244	13	e F	12 31 02 12 33 14						
245	13	e F	14 59 32 13 01 39						
246	13	ep S F	16 06 38 16 09 00 16 11 12				158		
247	14	ep S F	4 51 17 4 54 20 4 56 11				164		
248	14	e F	5 02 05 5 04 05						
249	14	ep S F	5 40 57 5 42 57 5 45 21				140		
250	14	ep S F	8 08 20 8 10 05 8 12 11				171		
251	14	ep S MN ME F	8 08 59 8 09 27 8 09 44 8 09 50 8 08 24	10	7.5	-22	171		
252	14	e F	11 29 25 11 29 11						
253	14	e F	12 02 50 12 05 21						
254	14	e F	12 52 10 12 54 11						
255	14	e F	13 01 37 13 04 21						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



International  
Seismological  
Centre

No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					μ	μ	μ		
			u m s	s			km.		
254	May	P	18 22 30						
		S	18 24 30						
		F	18 26 30						
257	May	P	17 11 40						
		S	17 13 40						
		M <sub>1</sub>	17 15 40						
		M <sub>2</sub>	17 17 40						
		F	17 19 40						
258	May	P	22 18 30						
		F	22 19 30						
259	May	P	1 4 30						
		S	1 6 30						
		M <sub>1</sub>	1 8 30						
		M <sub>2</sub>	1 10 30						
		F	1 12 30						
260	May	P	18 28 30						
		S	18 30 30						
		F	18 32 30						
261	May	P	16 41 30						
		S	16 43 30						
		F	16 45 30						
262	May	P	17 00 30						
		F	17 02 30						
263	May	P	17 11 30						
		S	17 13 30						
		F	17 15 30						
264	May	P	17 21 30						
		S	17 23 30						
		F	17 25 30						
265	May	P	21 47 30						
		S	21 50 30						
		F	21 53 30						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

May 1950

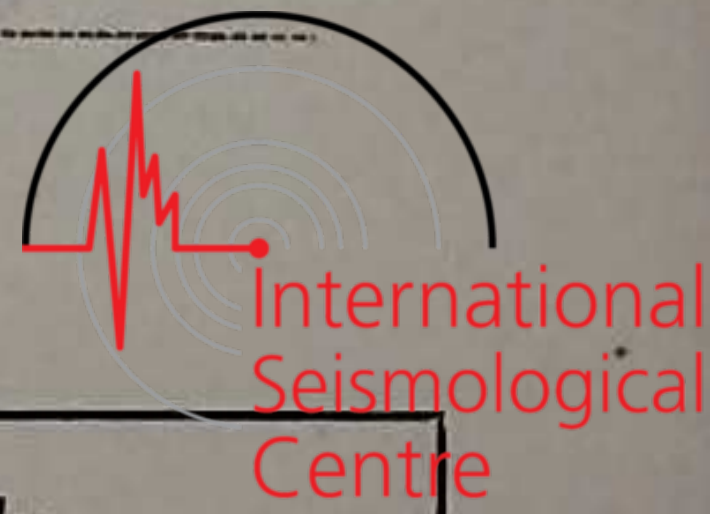


No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					μ	μ	μ		
			n m s	s			km.		
266	15	epF	21 21 277				167		
		S	21 21 288						
		F	21 24 11						
267	16	epN	4 29 522				425		
		S	4 46 514						
		F	4 47 21						
268	16	epF	22 25 246				215		
		S	22 25 230						
		F	22 27 28						
269	16	e	22 28 107						
		F	22 30 11						
270	17	e	4 06 44						
		F	4 07 47						
271	17	epN	5 06 422				161		
		S	5 07 288						
		F	5 10 17						
272	17	epN	5 14 27.0		141	-3	17		
		S	5 15 219						
		M <sub>1</sub>	5 15 219	10	1417				
		M <sub>2</sub>	5 15 354			295			
		M <sub>F</sub>	5 15 277	11	1417				
		M <sub>12</sub>	5 15 277	12		288			
		F	unknown						
273	17	e	5 24 275						
		F	unknown						
274	17	ep	5 21 309				11		
		S	5 22 171						
		F	5 26 15						
275	18	ep	11 26 246					Amplitude diagram	
		S	11 27 21						
		F	11 30 26						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
27	17	21	17 24 47						
		S	17 24 20						
		F	17 27 27						
27	17	24	24 17 00		17	17		170	
		PP	24 17 40						
		PP	24 18 10						
		S	24 18 40						
		Ms	24 19 10	7	170				
		Ms	24 19 40	8		170			
		F	24 20 10						
28	18	2	18 21 47						
		F	18 21 20						
29	18	21	18 21 17					170	
		S	18 21 40						
		F	18 21 20						
30	22	2	22 21 47						
		F	22 21 20						
31	22	21	22 21 47					170	
		S	22 21 20						
		F	22 21 40						
32	22	2	22 21 47						
		F	22 21 20						
33	22	2	22 21 47						
		F	22 21 20						
34	22	2	22 21 47						
		F	22 21 20						
35	22	2	22 21 47						
		F	22 21 20						
36	22	2	22 21 47						
		F	22 21 20						
37	22	2	22 21 47						
		F	22 21 20						
38	22	2	22 21 47						
		F	22 21 20						
39	22	2	22 21 47						
		F	22 21 20						
40	22	2	22 21 47						
		F	22 21 20						
41	22	21	22 21 47		170	170		170	
		S	22 21 20						
		Ms	22 21 40	24		170			
		Ms	22 21 40	24		170			
		Ms	22 21 40	24		170			
		Ms	22 21 40	24		170			
		Ms	22 21 40	24		170			
		Ms	22 21 40	24		170			
		C	22 21 40						
		F	22 21 40						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



27 May 1930

No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
28	27	P	5 20 07					100	
		S	5 22 24						
		F	5 21 30						
29	27	P	6 25 18					100	
		S	6 28 27						
		F	6 21 4						
30	27	P	7 19 47					100	
		S	7 19 48						
		F	7 22 17						
31	27	P	11 08 24						
		F	11 15 14						
32	27	P	17 29 14						
		F	17 42 27						
33	27	P	20 25 28						
		F	20 40 22						
34	27	P	21 20 26						
		F	21 25 27						
35	27	P	4 19 08						
		F	4 22 01						
36	27	P	4 22 47					100	
		S	4 22 24						
		F	4 25 18						
37	27	P	12 07 02						
		F	12 07 11						







# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			$\Delta$ km.	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					$\mu$	$\mu$	$\mu$		
200	July		0 49 00						
		F	0 52 30						
201	11	SP	9 57 00						
		S	10 04 00						
		F	10 05 00						
202	17	SP	12 00 00						
		S	12 04 00						
		MN	12 04 00		214				
		MN	12 04 00						
		F	12 06 00						
203	18	SP	21 11 00						
		S	21 14 00						
		MN	21 14 00	25	120				
		MN	21 14 00	29	104				
		F	21 21 00						
204	21		15 25 00						
		F	15 27 00						
205	21	SP	18 42 00						
		S	18 47 00						
		F	18 52 00						
206	21		22 07 00						
		F	22 07 00						
207	23	SP	15 14 00						
		S	15 15 00						
		F	15 18 00						
208	24		9 21 00						
		F	unknown						
209	26	SP	9 11 00						
		S	unknown						
		F	9 17 00						
210	27		22 07 00						
		F	22 05 00						
211	27	SP	9 25 00						
		S	9 26 00						
		F	9 27 00						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

of the Aitiken Meteorological Observatory of Japan.

$\phi = 35^{\circ}10'$      $\lambda = 136^{\circ}58'$      $h = 51.7^m$

Wiechert Seismograph.  
(Horizontal and Vertical)

Omori's Seismograph.  
(Horizontal Pendulum)



	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	57	1	0.02	71
AE:	57	1	0.02	71
AZ:	57	1	0.02	71

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	20	2	0.02	20
AE:	20	4	0.02	20

No.	Date.	I hase.	Time. n m s	Period s	Amplitude			$\Delta$ km.	Remarks
					AE	AN	Az		
					$\mu$	$\mu$	$\mu$		
218	1	F	1 28 07						
			1 28 07						
219	2	4F	17 19 07				110		
		S	17 19 07						
		F	17 22 07						
220	2	4F	20 07 07				110		
		S	20 07 07						
		F	20 08 07						
221	3	4F	1 11 07				110		
		S	1 11 07						
		L	1 24 07						
		M	1 27 07	100	120				
		M	1 27 07	100	120				
		F	1 28 07						
222	4	4F	22 07 07				110		
		S	22 07 07						
		F	22 10 07						
223	5	4F	1 08 07				110		
		S	1 08 07						
		F	1 10 07						
224	5	4F	17 08 07				110		
		S	17 08 07						
		F	18 08 07						
225	6	4F	3 08 07						
		F	3 08 07						



July 1970

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



International  
Seismological  
Centre

No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					μ	μ	μ		
			n m s	s				km.	
220	July 10	a/P	20 07 50						170
		S	20 08 40						
		F	20 09 30						
221	10	a/P	21 04 00		- 2	70			240
		F	21 04 00						
		S	21 05 00						
		MN	21 06 00	0.8		+170			
		MF	21 07 00	0.6		+90			
		F	21 08 00						
222	11	a	0 09 10						
		F	0 09 50						
223	14	a/P	4 12 30						
		LN	4 02 00						
		F	4 09 50						
224	14	a	19 25 10						
		F	19 04 00						
225	17	a/P	1 28 00						97
		S	1 28 20						
		F	1 29 50						
226	20	a	8 21 00						
		F	8 28 00						
227	20	a	10 50 00						
		F	10 58 00						
228	20	a/P	4 28 00						1220
		S	4 20 00						
		L	4 01 00						
		MF	4 01 20	2.2		20			
		MN	4 01 50	2.2		270			
		F	4 03 00						
229	20	a/P	15 42 10						240
		S	15 42 40						
		F	15 07 40						



August 1921

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

of the Aitiken Meteorological Observatory of Japan.

$\phi = 35^{\circ}10'$      $\lambda = 136^{\circ}58'$      $h = 51.7$

Wicthert Seismograph.  
(Horizontal and Vertical)

Om ri's Seismograph.  
(Horizontal Pendulum)



	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	57	6	0.02	71
AE:	56	6	0.02	71
AZ:	53	6	0.02	6

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	20	3	0.02	20
AE:	20	4	0.04	20

No.	Date.	Phase.	Time.	Period	Amplitude			$\Delta$	Remarks
					AE	AN	Az		
					$\mu$	$\mu$	$\mu$		
233	August 4	e	14 20 03						
		F	14 28 30						
234	7	e	0 59 12						
		F	1 01 -						
235	7	e	6 34 36						
		F	6 07 12						
236	7	e	8 03 24						
		F	8 05 14						
237	10	ep	22 11 53.9						
		sh	22 12 14.7						
		F	22 16 08						
238	15	ep	11 42 4.00				176		
		S	11 44 02.6						
		ME	11 44 04.6		-21				
		MN	11 44 06.6			7.01			
		F	11 48 -						
239	17	ep	18 29 10.0				257		
		S	18 29 46.8						
		ME	18 29 59.4	16	1296				
		192	18 30 04.8	17				-108	
		MN	18 30 08.4	14				-256	
		F	18 42 36						



August 1950

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			△ km.	Remarks
					A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
246	August 19	eP	4 46 18				272		
		S	4 47 06						
		MN	4 48 38		-	- 42			
		ME	4 49 53		-25				
		F	4 51 24						
247	19	eP	21 46 55				271		
		S	21 47 18						
		MN	2 47 19			+42			
		ME	2 47 58						
		F	2 49 11						
248	19	e	22 12 27						
		F	22 13 38						
249	20	eP	2 42 27				270		
		S	2 43 17						
		MN	2 43 27	29		+88			
		ME	2 43 36	14	-71				
		Mc	2 43 43			+24			
		F	2 45 30						
250	21	eP	5 58 11				274		
		eS	6 02 48						
		L	6 04 30						
		F	6 25 30						
251	21	e	17 46 07						
		F	17 55 52						
252	22	eP	10 01 07				47		
		S	10 02 50						
		F	10 06 27						
253	22	e	20 04 25						
		F	20 05 24						
254	26	e	4 47 45						
		F	4 47 16						
255	30	e	5 05 10						
		F	5 11						



September 1920

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

of the Aitiken Meteorological Observatory of Japan.

$\phi = 35^{\circ}10'$        $\lambda = 136^{\circ}58'$        $h = 51.7^m$

Wiechert Seismograph.

(Horizontal and Vertical)

Omori's Seismograph.

(Horizontal Pendulum)



	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	57	1	0.02	71
AE:	18	1	0.02	71
AZ:	57	1	0.02	12

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	20	2	0.02	20
AE:	20	4	0.04	20

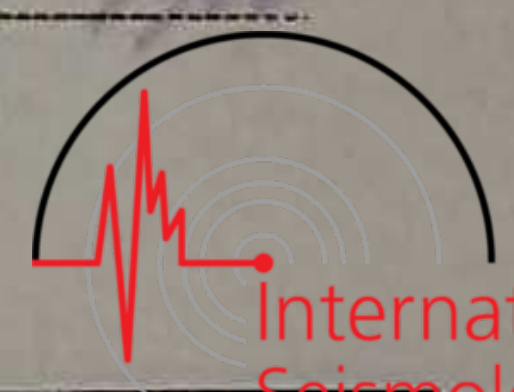
No.	Date.	Phase.	Time.	Period	Amplitude			$\Delta$	Remarks
					AE	AN	Az		
			n m s	s	$\mu$	$\mu$	$\mu$	km.	
250	4	ep	14 17 15					250	
		S	14 20 18						
		F	14 25 25						
251	8	ep	2 22 15						
		F	2 28 18						
252	9	ep	23 14 37						
		F	23 19 45						
253	11	ep	1 06 58						
		F	1 08 38						
254	11	ep	7 24 22					254	
		S	7 25 16						
		F	7 30 54						
255	11	ep	20 24 14					128	
		S	20 26 27						
		F	20 36 50						
256	12	ep	1 48 40						
		F	1 51 30						
257	14	ep	10 41 25						
		F	10 44 29						



September 1950

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



International  
Seismological  
Centre

No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			n m s	s	μ	μ	μ	km.	
258	16	a	11 11 48						
		F	11 13 12						
259	16	a	20 27 07						
		F	20 28 22						
260	17	a	0 17 17						
		F	0 18 11						
261	17	a	11 57 27						
		F	11 57 30						
262	17	epN	19 15 45					260	
		S	19 16 07						
		F	20 01 14						
263	17	a	10 21 07						
		F	10 22 14						
264	17	epE	17 00 07					122	
		S	17 01 12						
		F	17 04 22						
265	21	a	10 27 25						
		F	10 40 04						
266	21	a	11 22 45						
		F	11 26 21						
267	22	ep	8 16 40					4720	
		L	8 21 00						
		M	8 25 00	120					tide
		M	8 27 40	120					
		F	8 31 10						



September 1962

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			n m s	s	μ	μ	μ	km.	
71	22	a	12 27 18						
		F	12 27 27						
72	22	a	12 24 28						
		F	12 27 18						
73	22	a	12 22 18						
		F	12 24 18						
74	22	a	12 22 18						
		F	12 27 28						
75	27	4N	1 18 18						
		F	1 18 28						
		S	4 18 28						
		M <sub>1</sub>	4 18 18	12		140			
		M <sub>2</sub>	4 17 27	127					
		F	1 22 18						
76	28	4P	11 12 28						
		S	11 13 27						
		F	11 17 18						
77	29	a	11 18 18						
		F	11 17 18						
78	29	a	11 18 18					171	
		S	11 18 18						
		F	11 17 28						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

of the Aitiken Meteorological Observatory of Japan.

$\psi = 35^{\circ}10'$        $\lambda = 136^{\circ}58'$        $h = 51.7^m$

Wiechert Seismograph.

(Horizontal and Vertical)

Om ri's Seismograph.

(Horizontal Pendulum)



	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:				
AE:	57	1	0.02	71
AZ:	11	1	0.02	71

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:				
AE:	20	1	0.02	20
AZ:	20	4	0.07	20

No.	Date.	Phase.	Time.	Period	Amplitude			$\Delta$	Remarks
					AE	AN	Az		
					$\mu$	$\mu$	$\mu$		
296	1	ep	1 28 28				4446?		
		es	1 24 36						
		el	1 28 59						
		F	7 06 4-						
297	1	ep	11 46 42				24		
		el	11 46 48						
		F	11 47 41						
298	1	e	11 18 12						
		F	11 01 5-						
299	2	e	19 03 20						
		F	19 10 25-						
300	5	e	1 05 07						
		F	21 07 20-						
301	7	e	10 30 07						
		F	10 22 11-						
302	7	e	11 20 11-						
		F	11 22 45-						
303	1	ep	19 29 07				1920?		
		el	19 27 03-						
		F	19 28 16-						



October 1971

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
192	21	Op	14 21 40					221	
		S	14 27 22						
		F	14 30 27						
193	25	Op	1 19 44		141	40	17	280	
		S	1 22 19						
		M <sub>2</sub>	1 19 10	33			173		
		L <sub>2</sub>	1 24 47						
		F	1 24 11						
194	25	Op	1 19 47					290	no duplet
		S <sub>0</sub>	1 22 10						
		M <sub>2</sub>	1 19 18	19			177		
		M <sub>2</sub>	1 40 20	31	140				
		F	1 40 30						
195	25	Op	1 18 40		115			290	onset sinograph
		S <sub>0</sub>	1 22 02						
		L <sub>2</sub>	1 19 46						
		M <sub>2</sub>	1 22 20	144 - 142					
		F <sub>2</sub>	1 19 20						
196	25	Op	1 19 4		-100			280	onset sinograph
		S <sub>0</sub>	1 22 01						
		L <sub>2</sub>	1 22 17						
		M <sub>2</sub>	1 22 22		-160				
		F <sub>2</sub>	1 25 20						
197	25	Op	7 22 40					218	
		S	7 24 14						
		F	7 25 11						
198	26	Op	22 40 28					174	
		S	22 46 04						
		F	22 47 28						
199	27	Op	1 14 45					270	
		S	1 18 28						
		M <sub>2</sub>	1 18 44						
		M <sub>2</sub>	1 18 44						
		L <sub>2</sub>	1 22 45						
		F	1 19 -						
200	27	Op	22 27 40						
		F <sub>2</sub>	22 30 10						



October 1931

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			△ km.	Remarks
					A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
284	12	ep S F	17 58 450 17 59 390 18 03 54				378		
285	12	ep es F	18 41 378 18 42 408 18 43 14				343		
286	15	e F	10 51 480 10 53 16						
287	15	ep S F	6 19 376 6 20 186 6 22 08				304		
288	17	iPE S ME MS MN -	6 22 452 6 33 025 6 33 057 6 33 088 6 33 074 -		10 11 10	+15 +21 +12 +404 +370	128		
289	17	iPN S F3	6 26 204 6 26 277 6 48 40				130	scall out	
290	18	ep S F	13 23 240 13 23 407 13 26 00				124		
291	20	ep S F	11 08 030 11 08 201 11 11 050				127		



November 1930

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

of the Aitiken Meteorological Observatory of Japan.

$\phi = 35^{\circ}10'$      $\lambda = 136^{\circ}58'$      $h = 51,^m7$

Wiechert Seismograph.  
(Horizontal and Vertical)

Om ri's Seismograph.  
(Horizontal Pendulum)



	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	57	1	0.02	71
AE:	58	6	0.02	71
AZ:	53	6	0.02	11

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	20	2	0.02	20
AE:	20	4	0.01	20

No.	Date.	Phase.	Time.	Period	Amplitude			$\Delta$	Remarks
					AE	AN	Az		
					$\mu$	$\mu$	$\mu$		
398	1	ep	0 40 28				280		
		S	0 41 15						
		F	0 43 26-						
399	5	epE	10 40 04				22		
		ISE	10 40 04						
		ME	10 40 04	-22					
		MN	10 40 04.7		+10				
		F	10 41 21-						
400	8	ep	10 02 290				195		
		S	10 02 54.2						
		F	10 07 29-						
401	10	ep	4 15 45.5						
		el	4 24 55.6						
		ef	4 36 25-						
402	10	ep	13 59 01.6				200		
		S	13 59 22.6						
		F	14 01 42-						
403	10	ep	22 38 42.3				258		
		S	22 07 30.5						
		F	22 40 52-						



November 1960



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

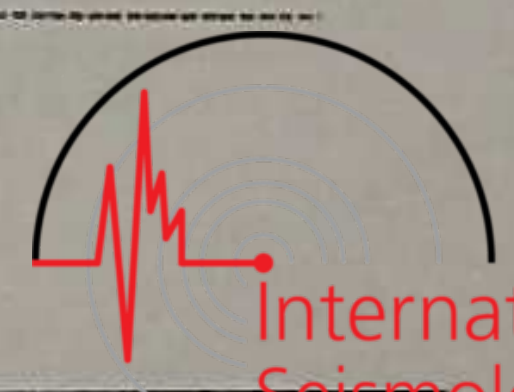
No.	Date.	Phase.	Time.	Period	Amplitude			△	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					μ	μ	μ		
			h m s	s			km.		
404	10	ep?	22 51 18-					P = unknown	
		eL	23 00 18-						
		ep?	23 20 30-						
405	12	ep	17 10 14-				102		
		S	17 10 22-						
		F	17 12 22-						
406	10	e	10 52 10-						
		F	10 55 14-						
407	11	ep	9 09 00-				177		
		S	10 00 22-						
		F	10 04 01-						
408	11	e	16 54 54-						
		F	16 56 49-						
409	11	ep?	8 26 05-				171		
		S	8 26 29-						
		F	8 28 -						
410	11	ep	8 42 20-				550		
		S	8 46 20-						
		F	8 44 41-						
411	10	e	8 49 18-						
		F	8 51 30-						
412	11	e	9 06 52-						
		F	9 08 09-						



Number 1910

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



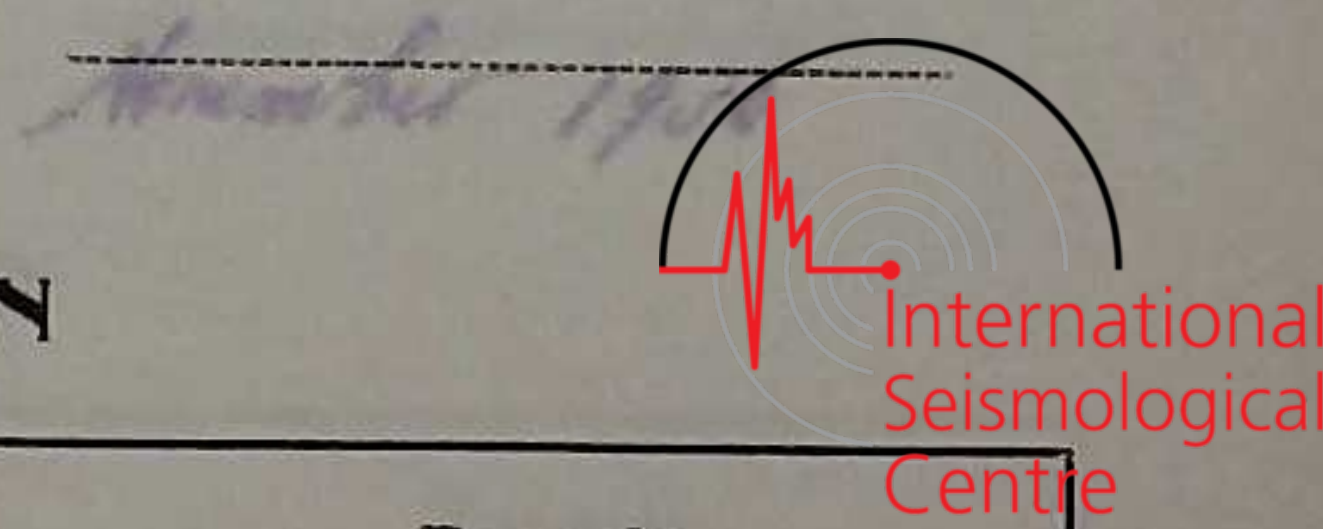
International  
Seismological  
Centre

No.	Date.	Phase.	Time.	Period	Amplitude			△	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					μ	μ	μ		
			n m s	s			km.		
413	16	24	16 01 16						
		S	16 02 16						
		F	16 03 16						
414	16	2	16 07 47						
		F	16 08 47						
415	17	24	17 16 27						
		S	17 17 27						
		F	17 18 27						
416	18	2	18 01 16						
		F	18 02 16						
417	18	24	18 16 27						
		S	18 17 27						
		F	18 18 27						
418	20	24	20 16 27						
		S	20 17 27						
		F	20 18 27						
419	20	24	20 16 27						
		S	20 17 27						
		F	20 18 27						
420	20	24	20 16 27						
		S	20 17 27						
		F	Continued						
421	20	24	20 16 27						
		S	20 17 27						
		F	20 18 27						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



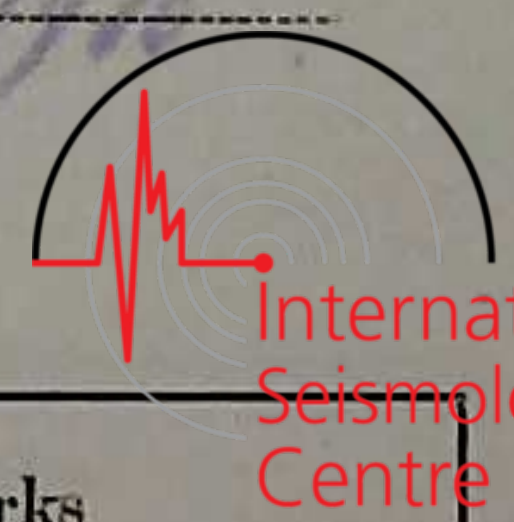
No.	Date.	Phase.	Time.			Period	Amplitude			△	Remarks
							A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h	m	s		s	μ	μ		
422	21	ap	18	41	00					Omori's seismograph	
		S	18	41	04						
		F	18	44	17						
423	21	ap	19	17	05						
		S	19	17	44						
		F	19	20	28						
424	21	e	20	21	17						
		F	20	22	28						
425	21	e	20	22	04						
		F	20	24	50						
426	21	ap	20	47	15						
		S	20	49	25						
		F	20	52	25						
427	21	ap	21	17	54						
		S	21	18	15						
		M <sub>1</sub>	21	18	17	±40					
		M <sub>2</sub>	21	18	17		+70				
		F	21	22	52						
428	21	ap	21	24	00						
		S	21	24	24						
		F	21	25	52						
429	21	ap	21	56	10						
		S	21	56	47						
		F	21	59	52						



November 1970

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



International  
Seismological  
Centre

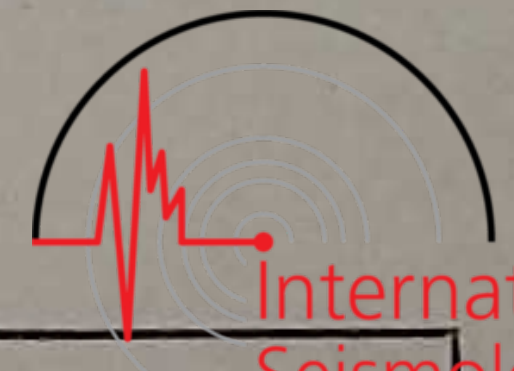
No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					μ	μ	μ		
			h m s	s			km.		
420	22	ap	5 21 00						
		S	5 21 30						
		F	5 24 4-						
421	22	a	17 28 50-						
		F	17 41 50-						
422	24	ap	14 29 50						
		S	14 29 50						
		F	14 41 45-						
423	24	ap	15 46 45				200		
		S	15 46 45						
		F	15 49 45-						
424	25	ap	14 59 45						
		S	15 00 20						
		F	Continued						
425	25	a	15 02 50						
		F	unknown						
426	25	a	15 19 02-						
		F	15 20 42-						
427	25	ap	15 22 20						
		S	15 22 40						
		F	Continued						
428	25	ap	15 25 50						
		S	15 28 10						
		F	Continued						



November 1974

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



International  
Seismological  
Centre

No.	Date.	Phase.	Time.	Period	Amplitude			△ km.	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					μ	μ	μ		
439	25	ep	15 26 520						
		S	15 27 200						
		MN	15 27 200		+47				
		ME	15 27 40	10	-29				
		F	15 29 41-						
440	25	a	15 50 540						
		F	15 50 40						
441	25	ep	15 52 410				160		
		S	15 52 210						
		F	16 00 40-						
442	25	ep	16 01 590				169		
		S	16 02 200						
		F	16 04 40-						
443	25	epN	16 06 240		-4	-2			
		SN	16 06 450						
		MN	16 06 450			-142			
		ME	16 07 105		-26				
		F	16 15 11-						
444	25	a	16 06 040						
		F	16 08 40-						
445	25	epN	16 50 210						
		SN	16 50 570						
		MN	16 50 570						
		ME	16 50 580						
		F	16 55 40-						
446	25	a	17 02 140						
		F	undetermined						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



International  
Seismological  
Centre

No.	Date.	Phase.	Time.	Period	Amplitude			△	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
447		F	17 47 41						
		F	unknown						
448	21	F	17 48 30						
		F	unknown						
449	21	F	17 49 41						
		F	unknown						
450	21	S	18 00 41						
		S	18 01 07						
		F	18 02 30						
451	21	S	18 04 50						
		S	18 05 16						
		F	18 06 40						
452	21	F	19 16 07						
		F	19 17 21						
453	21	F	20 17 07						
		F	unknown						
454	21	S	21 02 30					177	
		S	21 03 17						
		F	21 04 40						
455	21	S	21 11 07					177	
		S	21 11 47						
		F	Continued						
456	21	S	21 14 30					177	
		S	21 14 50						
		F	21 15 10						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



International  
Seismological  
Centre

No.	Date.	Phase.	Time.	Period	Amplitude			△	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			n m s	s	μ	μ	μ	km.	
447	21-21	S	23 23 40					11	
		MN	23 24 40						
		Mt	23 24 40						
		F	23 23 40						
448	21-21	S	23 27 50					11	
		F	23 41 40						
449	21-21	F	unknown						
450	21-21	F	unknown						
451	21-21	F	2 41 40						
452	21-21	S	4 22 17						strong recorder
		Mt	4 24 12	21	-204				
		MN	4 24 27	32	-104				
		Mt	4 22 47						
		F	unknown						
453	21-21	S	8 27 10						
		F	8 41 17						



November 1974

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



International  
Seismological  
Centre

No.	Date.	Phase.	Time.	Period	Amplitude			Δ	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					μ	μ	μ		
			n m s	s				km.	
492	28	E	18 10 46						
		F	18 12 48						
494	28	Ap	21 42 48						
		S	21 42 41						
		F	21 47 48						
495	29	E	0 14 39						
		F	0 16 39						
496	29	E	22 27 40						
		F	22 29 41						
497	29	E	22 14 41						
		F	22 14 41						
498	28	Ap	11 21 47						
		S	11 22 48						
		F	11 26 49						
499	28	Ap	11 17 47						
		S	11 17 48						
		F	11 11 46						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



International  
Seismological  
Centre

No.	Date.	Phase.	Time.	Period	Amplitude			△ km.	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
					μ	μ	μ		
444	23	4/2	9 21 207						
		S <sub>2</sub>	9 21 210						
		F <sub>2</sub>	9 27 21						
445	24	4/2	9 41 210						
		F <sub>2</sub>	9 50 21						
446	23	4/2	10 11 207						
		S <sub>2</sub>	10 17 21						
		F <sub>2</sub>	10 21 21						
447	23	4/2	10 41 207						
		F <sub>2</sub>	10 50 21						
448	23	4/2	11 21 207						
		F <sub>2</sub>	Continued						
449	23	4/2	11 51 207						
		S <sub>2</sub>	11 51 21						
		F <sub>2</sub>	11 57 21						
450	23	4/2	12 21 207						
		S	12 24 21						
		F	12 28 21						
451	23	4/2	12 51 207						
		S	12 54 21						
		F	12 58 21						
452	23	4/2	17 41 207						
		S	17 44 21						
		F	17 48 21						



December 1930

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

of the Aitiken Meteorological Observatory of Japan.

$\psi = 35^{\circ}10'$      $\lambda = 136^{\circ}58'$      $h = 51,^m7$

Wiechert Seismograph.  
(Horizontal and Vertical)

Om ri's Seismograph.  
(Horizontal Pendulum)



	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	17	1	0.02	71
AE:	16	1	0.02	71
AZ:	12	6	0.02	11

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	20	2	0.02	20
AE:	20	4	0.04	20

No.	Date.	Phase.	Time.	Period	Amplitude			$\Delta$ km.	Remarks
					AE $\mu$	AN $\mu$	Az $\mu$		
410	Dec 1	E F	0 18 20 0 20 22						
411	1	E F	1 42 40 1 40 14						
412	2	E S F	5 20 40 5 21 47 5 22 14				116		
413	2	EP S F	7 59 15 7 59 20 8 02 54				118		
414	2	E F	8 22 10 8 20 20						
415	2	E F	12 14 14 12 24 20						
416	2	E F	14 10 25 unknown						
417	4	EP S L MN ME F	4 16 26 4 02 30 4 08 40 4 11 40 4 10 40 4 50 14	175 110	$\pm 118$	$\pm 126$		4575	
418	4	EP S F	10 17 00 10 17 24 10 19 54					107	



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

December 19



No.	Date.	Phase.	Time.	Period	Amplitude			△	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			n m	s	μ	μ	μ	km.	
489	5	L F	4 16 220 unknown						
490	6	L S MN ME F	5 22 226 5 22 498 5 22 540 5 22 520 5 22 40-		-53	-97		202	
491	7	L F	12 52 89- 12 54 22-						
492	7	L S F	12 07 282 12 08 267 Continued						
493	7	L S F	12 22 170 12 22 441 12 25 87-					142	
494	7	L S F	12 14 520 12 15 214 12 16 57-					164	
495	7	L F	12 28 27- 12 28 50-						
496	7	L F	12 51 25- 12 51 47-						
497	7	L F	12 55 248 12 56 17-						
498	7	L F	14 05 526 14 06 47-						
499	7	L F	14 22 197 14 29 25-						
500	7	L F	14 11 228 14 12 57-						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

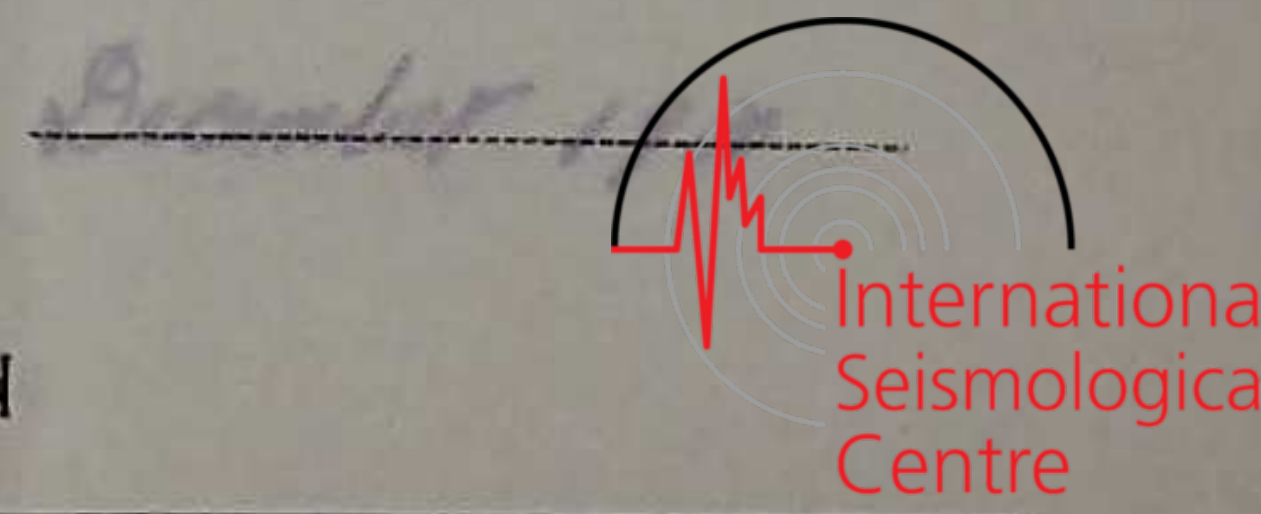


No.	Date.	Phase.	Time.	Period	Amplitude			△	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			n m s	s	μ	μ	μ	km.	
501	Dec								
		P	14 50 45.2					174	
		S	14 54 48.1						
		F	14 58 49						
502									
		P	15 02 49.1					228	
		S	15 07 48.5						
		F	15 10 48						
503									
		P	16 12 57						
		F	16 14 49						
504									
		P	22 04 57.0					178	
		S	22 05 55.0						
		F	22 10 48						
505									
		P	0 04 48.8					177	
		S	0 05 47.9						
		F	0 08 48						
506									
		P	4 04 50.2						
		F	4 07 47						
507									
		P	15 24 28.0					202.6	
		S	15 27 52.0						
		F	15 31 50						
508									
		P	17 05 29.2					256.0	
		S	17 07 40.9						
		F	17 10 50						
509									
		P	8 07 20.2						
		S	8 10 49.2						
		F	8 14 50						
510									
		P	19 05 49.2					122	
		S	19 07 52.8						
		F	19 09 48						
511									
		P	4 07 26.4					159	
		S	4 07 57.8						
		F	4 09 25						
512									
		P	4 22 48.8						
		F	Continued						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			△	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
515	10	ep	5 21 270					190	
		S	5 21 270						
		F	5 25 47-						
516	10	ep	6 22 258					155	
		S	6 22 261						
		F	6 24 38-						
517	10	e	8 07 240						
		F	unknown						
518	10	e	9 58 125						
		F	9 59 47-						
519	10	ep	12 27 268					148	
		S	12 27 268						
		F	12 32 07-						
520	10	ep	15 34 281					141	
		S	15 34 279						
		F	15 38 45-						
521	10	e	2 07 146						
		F	2 10 28-						
522	10	e	22 50 177						
		F	22 50 47-						
523	10	ep	26 20 150					147	
		S	26 20 150						
		F	26 22 45-						
524	10	ep	0 08 246					154	
		S	0 08 246						
		F	0 09 -						
525	10	e	4 42 28-						
		F	4 43 54-						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.	Period	Amplitude			△	Remarks
					A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			h m s	s	μ	μ	μ	km.	
244	10	EP	21 24 55					140	
		S	21 27 20						
		ME	21 28 40	28	144				
		MN	21 28 49	28		140			
		F	21 28 19						
245	14	EP	17 47 00					140	
		S	17 48 24						
		F	17 49 40						
246	14	EP	6 24 49					140	
		S	6 25 00						
		F	6 26 20						
247	15	EP	14 22 00					140	
		S	14 22 59						
		F	14 29 15						
248	17	EP	4 50 40					140	
		S	4 50 44		140				
		ME	4 51 00						
		F	4 52 10						
249	18	EP	21 22 00					140	
		S	21 22 20						
		F	21 24 50						
250	19	EP	11 28 50					140	
		F	11 28 20						
251	20	EP	11 48 00					140	
		S	11 48 10						
		F	11 48 19						
252	20	EP	21 05 20		140	140	140	140	
		S	21 04 50						
		L	21 04 30						
		MN	21 04 18	42		140			
		ME	21 04 25	35	140				
		MN	21 04 44	19			140		
		F	21 12 29						



# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN

*December 19*



No.	Date.	Phase.	Time.		Period	Amplitude			△	Remarks
						A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
			n	m	s	μ	μ	μ	km.	
532	Dec 20	ep	20	40	58				591	
		S	20	46	58					
		F	20	48	58-					
534	21	ep	8	27	57				589	
		S	8	25	57					
		F	8	25	-					
535	21	ep	21	15	21					
		S	21	16	19					
		MN	21	16	24			-240		
		ME	21	16	25			+180		
		C	21	17	29					
		F	21	25	16-					
536	21	e	21	48	54					
		F	21	49	49-					
537	21	e	22	10	49-					
		F	22	12	22-					
538	21	e	22	15	58					
		F	unknown							
539	21	ep	20	55	45	30	-20	-20	-20	
		S	unknown							
		ME	20	56	09-	25	-140			
		MN	20	56	10-	25		+128		
	22	F	0	06	15-					
540	22	e	1	02	08-					
		F	1	05	20-					
541	22	e	2	39	15-					
		F	2	41	50-					
542	22	e	11	26	26					
		F	11	26	51-					
543	20	e	19	47	42-					
		F	19	49	42-					



*December 1970*

# NAGOYA JAPAN

## SEISMOLOGICAL BULLETIN



No.	Date.	Phase.	Time.			Period	Amplitude			Δ	Remarks
			n	m	s		A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
						s	μ	μ	μ	km.	
544	Dec 24	ep	8	57	198					1250	
		S	8	59	208						
		F	9	06	22-						
545	24	ep	16	12	298					287	
		S	16	14	308						
		F	16	18	32-						
546	25	S	8	26	36-						
		F	8	28	37-						
547	26	S	22	46	460						
		F	22	49	460						
548	26	ep	5	57	560					177	
		S	5	58	200						
		F	6	01	08						