



No. 171

From ..... to ..... 19  
January, 13 January, 35

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

$\varphi = 34^{\circ} 39' N.$   $\lambda = 135^{\circ} 32' E.$  Gr.  $h = 3.4m$  Sub-Soil : Sandy Loam (Oldquaternary)

Instrument : Omori's Seismograph  
(Horizontal & Vertical)

Wiechert Seismograph  
(Horizontal & Vertical)

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
$A_E$ :				
30	-	0.003	0	
$A_N$ :				
30	-	0.003	0	
$A_Z$ :				
15	-	0.004	0	

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
$A_E$ :				
4	3.0	0.003	80	
$A_N$ :				
4	3.0	0.003	80	
$A_Z$ :				
6	2.0	0.005	80	

No.	Date	Phase	G.M.T.			Period s	Amplitude			$\Delta$ k.m.	Remarks
			h.	m.	s.		$A_E$ $\mu$	$A_N$ $\mu$	$A_Z$ $\mu$		
1	Jan. 1	P	13	06	38.0	3.8 3.9 3.5	±6	+31	+13	338	
		S		07	23.5						
		ME		08	25.4						
		MN		08	14.3						
		MZ		07	53.0						
		F		11	40.0						
2	" 3	P	1	57	53.4					3515	
		i		58	53.9						
		S	2	03	11.4						
		L		11	39.3						
		F		40	00.0						
3	" 3	P	14	55	54.2	2.4 2.6 2.4	+22	-31	+13	444	
		i		56	09.7						
		i		56	21.9						
		S		56	54.0						
		ME		57	11.6						
		MN		57	18.0						
		MZ		57	20.9						
		F		15	02 00.0						
4	" 8	P	2	04	09.6	0.4 0.4 0.4	-7	+ 8	±1	120	
		S		04	25.7						
		ME		04	31.9						
		MN		04	34.7						
		MZ		04	29.7						
		F		05	30.0						
5	" 8	P	18	36	07.5	3.0 2.6 2.4	+ 8	± 9	- 5	371	
		S		36	57.4						
		i		37	11.4						
		ME		37	40.3						
		MN		37	47.8						
		Mz		37	53.1						
F		41	40.0								
6	" 9	P	16	37	44.2	1.0 1.0	- 5	- 4		7 3	
		S		37	54.0						
		ME		38	20.2						
		MN		38	11.8						
		i		38	26.1						
F		40	10.0								
7	" 13	P	14	16	07.9	0.4 0.4 0.2	- 6	+8	± 1	108	
		S		16	25.1						
		ME		16	28.7						
		MN		16	33.6						
		MZ		16	28.5						
		F		18	10.0						





No. 172

From 13. January, 19 to February, 35 19

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			△ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
8	Jan. 18	P	22	44	38.6	2.2 2.6 2.0	-38	+50	+26	366	
		S		45	37.9						
		ME		45	41.8						
		MN		46	08.7						
		MZ		45	52.3						
		F		50	20.0						
9	" 23	P	7	31	40.7					3553	
		S		37	01.1						
		L		45	44.7						
		F		57	20.0						
10	Feb. 4	P	0	30	10.7	0.3 0.3 0.3	+39	-41	+18	30	Feeling
		i		30	12.0						
		i		30	13.0						
		i		30	13.3						
		S		30	14.8						
		ME		30	15.2						
		MN		30	14.8						
		MZ		30	15.6						
F		32	50.0								
11	" 7	P	17	33	41.6					4087	
		S		39	33.7						
		F		47	40.0						
12	" 9	P	19	27	19.0	4.2 4.4 4.0	+11	-19	-8	2214	
		i		23	47.8						
		S		26	00.4						
		i		28	30.8						
		L		29	58.6						
		ME		31	39.4						
		MN		31	11.2						
		MZ		31	43.6						
F		42	40.0								
13	" 10	P	18	31	04.6	2.6 2.5 4.2	+113	+153	+131	539	
		S		32	17.3						
		ME		32	30.9						
		MN		32	42.0						
		MZ		32	32.0						
		F		41	40.0						
14	" 18	P	14	57	07.9	1.7 1.1 1.5	+8	+8	+4	250	
		S		57	41.5						
		i		57	48.2						
		ME		57	58.9						
		MN		58	08.3						
		MZ		58	23.4						
F		15	00 00.0								
15	" 19	P	17	51	53.8	1.5 1.5 1.2	+11	+13	-5	223	
		S		52	23.8						
		ME		52	50.1						
		MN		52	44.8						
		MZ		52	47.9						
		F		55	40.0						
16	" 19	P	20	11	28.3					479	
		i		11	32.1						
		i		11	34.3						
		i		11	41.0						
		i		11	48.6						
		S		12	32.8						
		i		12	38.8						
		i		12	38.8						





No. 173

From February, to March, 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			$\Delta$ k.m.	Remarks
			h.	m.	s.		$A_E$ $\mu$	$A_N$ $\mu$	$A_Z$ $\mu$		
	(Continue)	i	20	12	55.8						
		ME	13	02.6		3.5	-269				
		MN	13	10.8		3.4		-506			
		MZ	13	30.8		2.2			+175		
		F	16	30.0							
17	Feb. 22	P	17	12	26.9					4099	
		S	18	19.6							
		L	20	08.3							
		F	18	25	00.0						
18	" 24	P	5	15	54.3					45	
		S	16	00.4							
		ME	16	01.0		0.2	-14				
		MN	16	01.2		0.2		-16			
		MZ	15	54.4		0.2			+5		
		i	16	15.3							
		i	16	21.8							
		F	17	50.0							
19	" 24	P	16	55	46.5					42	
		S	55	52.2							
		ME	55	53.2		0.3	-3				
		MN	55	52.6		0.3		-4			
		i	55	56.6							
		i	56	15.9							
		F	57	10.0							
20	" 25	P	3	03	53.0					3427	
		i	04	16.4							
		i	04	37.5							
		i	06	04.6							
		i	07	41.4							
		S	09	05.5							
		L	14	05.4							
		ME	16	10.2		4.2	+6				
		MN	16	17.7		3.8		+6			
		F	26	40.0							
21	" 25	P	15	08	41.3					477	
		S	09	45.5							
		ME	10	37.3		4.0	+6				
		MN	10	17.7		4.0		-6			
		F	12	30.0							
22	Mar. 1	P	1	50	18.0					76	
		S	50	28.2							
		ME	50	57.0		1.6	+19				
		MN	50	47.6		1.6		+14			
		MZ	50	34.4		0.3			+2		
		F	53	00.0							
23	" 4	P	4	05	35.1					660	
		i	06	33.0							
		S	07	04.1							
		ME	07	41.1		2.0	-14				
		MN	07	53.7		2.5		-14			
		MZ	07	24.2		2.5			-8		
		F	12	00.0							
24	" 7	P	10	28	28.8					694	
		i	28	46.4							
		i	29	18.0							
		S	30	02.3							





No.  
174

From 7. March, to 18. March, 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			△ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
	(Continue)	ME	10	30	38.0	4.4	-20				
		MN		30	23.6	3.8		-26			
		MZ		30	44.4	3.6			+13		
		F		39	50.0						
25	Mar. 7	P	10	42	07.8					558	
		S		43	22.9						
		ME		44	01.4	3.4	+21				
		MN		44	22.5	3.0		+26			
		MZ		43	32.5	3.0			+8		
		F		49	50.0						
26	" 7	P	17	29	33.6					429	
		S		30	31.4						
		ME		30	55.3	2.6	+8				
		MN		31	15.2	3.0		-8			
		MZ		30	34.2	2.5			+5		
		F		32	30.0						
27	" 7	P	17	32	43.1					507	
		S		33	51.3						
		ME		34	49.2	5.0	+50				
		MN		35	18.8	4.6		-53			
		MZ		34	41.6	4.0			+31		
		F		43	20.0						
28	" 12	P	16	09	30.3						
		i		09	43.7						
		S		10	29.9						
		i		10	53.8						
		ME		11	34.7	3.8	-20				
		MN		11	14.2	3.3		-26			
		MZ		11	35.1	3.0			+11		
		F		16	20.0						
29	" 13	P	3	01	58.5					74	
		S		02	08.4						
		i		02	24.0						
		ME		02	32.4	1.8	-8				
		MN		02	39.5	1.6		+8			
		MZ		02	09.9	0.2			+1		
		F		03	40.0						
30	" 14	P	14	16	36.8					286	
		S		17	15.3						
		ME		17	37.0	3.4	+14				
		MN		17	35.8	3.0		+25			
		MZ		17	39.8	2.0			-11		
		F		20	20.0						
31	" 18	P	12	32	23.5					252	
		i		32	25.1	0.3	+4		+6		
		S		32	57.5						
		ME		32	58.4	2.3	-38				
		MN		32	58.1	2.3			+39		
		F		39	30.0						

Seismic Service,  
Osaka Meteorological Observatory,  
OSAKA, NIPPON.





No. 175

From 29. March, to 15. April, 1935.

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			△ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
32	Mar. 29	P	23	50	09.4				725		
		S		51	47.0						
		ME		52	59.1	3.6	+31				
		MN		52	38.4	3.6		-31			
		MZ		52	45.3	3.0					+14
F		58	40.0								
33	" 30	P	21	21	08.0				603		
		i		21	27.4						
		S		22	29.3						
		ME		23	16.7	3.6	-33				
		MN		23	19.9	4.3		-394			
		MZ		23	36.4	3.0					+175
F		46	40.0								
34	" 31	P	23	20	05.7				95	U-11.3 S-1.8 W-0.6	
		S		20	18.5						
		ME		20	18.5	0.3	+43				
		MN		20	18.5	0.3		+25			
		MZ		20	18.5	0.3					+16
F		26	10.0								
35	April, 1	P	0	27	26.7				92		
		S		27	39.1						
		ME		27	39.1	0.3	-45				
		MN		27	39.1	0.3		+14			
		MZ		27	39.1	0.3					+10
		ME		28	02.7	3.8	+20				
		MN		28	04.7	3.8		-38			
F		31	20.0								
36	" 4	P	13	23	13.2				640		
		i		23	32.3						
		S		24	39.5						
		ME		25	18.2	2.6	+32				
		MN		25	12.0	3.4		-38			
		MZ		25	52.1	2.4					-16
F		30	50.0								
37	" 5	P	10	02	51.5				107		
		S		03	05.9						
		ME		03	05.9	0.2	+2				
		MN		03	05.9	0.2		+3			
		MZ		03	05.9	0.2					+1
F		05	20.0								
38	" 9	P	8	19	19.6				193		
		i		19	24.6						
		i		19	28.1						
		S		19	45.6						
		MN		19	18.0	2.4		-271			
		MZ		20	11.7	2.3					+114
F		27	50.0								
39	" 11	P	15	26	16.7				255		
		i		26	39.3						
		S		26	51.1						
		i		27	03.5						
		ME		27	53.3	3.2	+70				
		MN		27	55.0	3.2		-125			
		MZ		27	49.4	3.0					+46
F		35	50.0								





No. 176

From 15 April, to 21 April, 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			△ k.m.	Remarks	
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ			
40	April, 15	P	11	15	52.6				269			
		S		16	28.9							
		ME		17	00.0	3.6	+381					
		MN		16	53.0	3.6		-569				
		MZ		17	03.7	3.6					+338	
		F		27	50.0							
41	" 16	P	22	43	58.5				75	Felt slightly		
		i		43	59.5							
		i		44	02.5							
		S		44	08.6							
		ME		44	08.6	0.4	+109					
		MN		44	08.6	0.4		+124				
MZ		44	09.3	0.3			+14					
F		50	50.0									
42	" 17	P	4	47	28.0				190			
		i		47	33.3							
		S		47	43.5							
		i		47	48.3							
		ME		48	02.1	0.8	-26					
		MN		48	13.9	0.8		+26				
MZ		48	10.7	0.5			+9					
F		51	20.0									
43	" 18	P	16	31	48.0				332			
		i		32	17.4							
		S		32	32.6							
		ME		33	07.9	2.4	-18					
		MN		33	06.1	2.4		+25				
		MZ		33	10.2	2.3					+15	
F		36	20.0									
44	" 19	P	15	37	47.6				8590			
		i		37	35.6							
		i		38	32.1							
		PR1		39	47.8							
		PR <sup>o</sup>		41	13.6							
		S		46	37.6							
		SR1		51	47.8							
		SR <sup>o</sup>		54	17.8							
		L	16	06	34.9							
		ME		29	22.7	17.0	-5					
		MN		28	57.0	16.2		-2				
F		39	00.0									
45	" 20	P	11	11	03.9				962			
		S		13	13.5							
		i		14	32.1							
		i		16	27.7							
		ME		17	31.9	5.0	+8					
		MN		17	35.1	4.6		-6				
F		26	10.0									
46	" 20	P	22	05	47.0				1810	Taiwan		
		PR1		06	04.9							
		i		06	19.3							
		S		08	53.2							
		SR1		10	04.6							
		L		11	50.3							
		ME		13	56.3	4.6	+88					
		MN		14	04.9	4.6		+193				
		MZ		14	38.9	11.5					+8	
		F		58	40.0							





No. 177

From 20 April, 1935 to 5 May, 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			△ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
47	Apr. 20	P	22	30	48.5	4.2 4.0	+22	+24	1824		
		S	33	55.9							
		L	36	33.9							
		ME	38	17.1							
		MN	38	06.2							
		F	58	40.0							
48	" 21	P	3	23	41.0	2.0 2.4 1.5	+14	-19	440		
		S	24	40.2							
		ME	25	24.4							
		MN	25	20.6							
		MZ	25	09.1							
		F	32	40.0							
49	" 22	P	16	52	02.0				1684		
		S	54	56.4							
		L	58	05.3							
		F	17	10 10.0							
50	" 22	P	18	58	32.8	2.5 3.0	+6	+5	260		
		S	59	07.8							
		ME	59	19.6							
		MN	59	48.9							
		F	19	03 00.0							
51	" 25	P	19	56	19.2				1765		
		S	59	20.7							
		L	20	02 20.2							
		F	07	40.0							
52	" 27	P	2	27	46.0				1790		
		i	28	44.0							
		S	30	50.0							
		L	33	43.9							
		F	38	20.0							
		F	38	20.0							
53	May, 3	P	15	11	49.1	0.4 0.4 0.3	+11	+13	117		
		S	12	04.8							
		ME	12	06.5							
		MN	12	06.7							
		MZ	12	06.8							
		i	12	07.5							
		i	13	05.2							
		F	15	00.0							
54	" 4	P	23	05	43.1	4.8 4.8	±13	+16	1778		
		S	08	45.9							
		L	11	36.9							
		ME	14	13.5							
		MN	14	15.7							
		F	27	40.0							
55	" 5	P	10	57	37.8	0.4 0.4	+3	+11	19		
		S	57	40.4							
		ME	57	40.6							
		MN	57	40.6							
		F	11	00 20.0							
		F	11	00 20.0							

Seismic Service,  
Osaka Meteorological Observatory,  
OSAKA, NIPPON.





No. 178

*482 (1/2) 2 196*

From 7. May, to 23. May, 19 35

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
56	May, 7	P	6	01	40.9				691		
		S		03	14.0						
		ME		04	49.6	3.0	+6				
		MN		04	55.4	3.0		+6			
		F		14	20.0						
57	" 9	P	9	17	58.0				361		
		S		18	46.6						
		ME		18	47.0	2.4	+43				
		MN		18	46.6	2.4		+25			
		F		24	40.0	1.7		+11			
58	" 10	P	16	14	17.8				371		
		S		15	07.7						
		ME		16	02.0	2.5	-8				
		MN		16	08.3	2.5		+6			
		F		19	00.0						
59	" 11	P	14	35	07.5				314		
		S		35	44.7						
		ME		36	16.7	2.6	-9				
		MN		36	16.1	2.3		-11			
		F		40	20.0	1.8		+2			
60	" 13	P	18	57	30.9				100		
		S		57	44.3						
		ME		57	52.5	0.3	+1				
		MN		57	48.2	0.3		+1			
		F		58	10.0						
61	" 13	P	20	10	10.8				890		
		S		12	10.8						
		ME		15	36.8	4.5	-21				
		MN		15	27.5	4.7		-16			
		F		25	00.0						
62	" 20	P	5	27	03.6				881		
		S		29	02.2						
		ME		29	54.7	4.9	+13				
		MN		29	52.4	4.8		+9			
		F		38	20.0	3.0		+2			
63	" 21	P	6	59	29.5				5203		
		i	7	01	18.8						
		i		01	37.6						
		S		05	42.9						
		i		08	19.6						
		i		08	52.8						
		F		20	00.0						
64	" 23	P	2	11	42.1				648		
		i		12	13.0						
		S		13	09.4						
		ME		14	04.8	3.8	+24				
		MN		13	54.6	4.0		+18			
		MZ		14	06.7	2.3		-9			
		F		19	40.0						





No. 179

From 23. May, to 28. May, 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T. h. m. s.	Period s	Amplitude			$\Delta$ k.m.	Remarks
					$A_E$ $\mu$	$A_N$ $\mu$	$A_Z$ $\mu$		
65	May, 23	P	6 11 30.9					280	
		i	11 38.6						
		S	12 08.5						
		ME	12 57.9	2.4	-45				
		MN	13 01.3	2.4		+34			
		MZ	13 13.7	2.3			-19		
		i F	14 58.9 20 10.0						
66	" 23	P	11 40 14.8					490	
		S	41 20.8						
		ME	41 58.2	2.5	-5				
		MN	41 51.1	2.4		-3			
		MZ	42 06.3	1.6			+3		
		F	44 10.0						
67	" 24	P	5 41 54.8					2592	
		S	46 07.0						
		L	50 37.5						
		ME	55 14.6	6.4	-19				
		MN	55 48.8	6.0		-13			
		F	7 18 00.0						
68	" 25	P	0 13 21.5					2205	
		i	13 35.1						
		i	14 10.4						
		i	14 49.9						
		S	17 02.0						
		i	17 39.0						
		L	20 08.4						
69	" 25	P	0 22 25.6					2072	
		i	22 48.4						
		S	26 17.6						
		i	27 22.0						
		L	29 51.3						
		F	38 00.0						
70	" 25	P	2 53 12.0					1466	
		S	55 45.6						
		L	57 16.1						
		F	3 00 30.0						
71	" 25	P	8 38 33.8					1937	
		i	39 17.6						
		S	41 51.5						
		i	42 45.8						
		L	45 44.9						
		F	53 10.0						
72	" 26	P	22 08 53.9					2973	
		S	13 35.1						
		L	16 55.7						
		F	52 00.0						
73	" 28	P	2 16 13.7					121	
		S	16 29.9						
		ME	16 31.4	0.6	+6				
		MN	16 29.9	0.6		+6			
		i	17 03.3						
		i	17 33.7						
		F	20 50.0						





No. 180

From 28. May, to 6. June, 1955.

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			△ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
74	May, 28	P	14	21	31.9				2797		
		S		26	00.0						
		F		35	00.0						
75	" 28	P	17	04	03.2				2078		
		S		07	33.0						
		F		14	50.0						
76	" 30	P	21	42	47.8				6166		
		i		43	07.9						
		i		45	07.9						
		i		45	47.1						
		S		50	33.1						
		L	22	05	16.8						
		ME		08	07.7	17.0	-45				
		MN		08	25.1	16.4		+56			
		MZ		09	56.1	16.7				+8	
		F	23	16	00.0						
77	" 31	P	8	19	56.6				453		
		S		20	57.6						
		ME		22	00.0	3.8	+419				
		MN		21	50.4	4.0		+431			
		MZ		21	26.0	2.3				-101	
		F		43	00.0						
78	" 31	P	23	30	08.7				26		
		S		30	12.2						
		i		30	13.6						
		ME		30	17.6	0.2	+19				
		MN		30	13.8	0.2		+17			
		i		30	44.2						
		i		31	12.2						
		F		33	40.0						
79	June 1	P	5	23	24.2				131		
		S		23	41.8						
		ME		23	49.4	1.0	+8				
		MN		23	53.8	1.6		-6			
		F		28	50.0						
80	" 1	P	14	45	39.9				2970		
		S		50	20.9						
		F	15	01	00.0						
81	" 5	P	7	04	46.4				113		
		S		05	01.7						
		ME		05	02.6	0.4	-18				
		MN		05	02.8	0.4		+8			
		MZ		05	01.7	0.3				+2	
		F		08	40.0						
82	" 5	P	13	38	55.2				80		
		S		39	06.0						
		ME		39	31.5	1.7	+22				
		MN		39	13.8	1.7		-16			
		MZ		39	06.0	0.6				-5	
		i		40	05.8						
		i		41	32.9						
		F		43	10.0						





No181

From 6. June, 20. June, 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			$\Delta$ k.m.	Remarks
			h.	m.	s.		$A_E$ $\mu$	$A_N$ $\mu$	$A_Z$ $\mu$		
83	June 6	P	12	59	49.1				329		
		S	13	00	33.3						
		ME	00	54.0	4.0	-22					
		MN	00	52.7	4.1		-25				
		MZ	00	52.8	1.9			-3			
		F	05	40.0							
84	" 8	P	4	58	15.6				507		
		i	58	23.6							
		S	59	23.9							
		ME	5	00	13.7	3.6	+28				
		MN	4	59	58.5	3.6		-28			
		MZ	5	00	00.9	2.0				-6	
85	" 9	P	6	39	19.9				2730		
		i	39	40.2							
		i	40	09.9							
		S	43	42.9							
		i	46	07.4							
		L	46	43.7							
86	" 10	P	6	52	56.8				506		
		i	53	26.2							
		S	54	04.9							
		ME	55	29.0	3.9	+31					
		MN	55	36.5	2.88		+31				
		i	58	08.6							
87	" 12	P	2	45	04.6				201		
		S	45	31.7							
		ME	45	46.3	2.4	-8					
		MN	45	44.2	2.4		+6				
		F	47	40.0							
88	" 14	P	9	42	04.3				114		
		S	42	19.7							
		ME	42	29.2	0.9	+11					
		MN	42	19.7	0.6		-8				
		F	44	20.0							
89	" 14	P	21	10	30.6				438		
		i	10	40.6							
		i	10	56.3							
		S	11	29.6							
		ME	12	27.6	3.0	+113					
		MN	13	07.6	3.6		+94				
90	" 18	P	22	32	57.6				2825		
		i	33	31.6							
		S	37	27.6							
		i	39	26.6							
		L	43	08.3							
		F	59	40.0							









No. 183

From 1. July, to 16. July, 19.35

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T. h. m. s.	Period s	Amplitude			△ k.m.	Remarks
					A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
100	July 5	P	9 12 04.7					430	
		S	13 07.7						
		ME	14 14.0	3.2	-27				
		MN	14 30.6	3.2	-22				
		MZ	13 07.1	2.4		+9			
		F	21 10.0						
101	" 5	P	18 02 15.5					5842	
		i	04 53.5						
		i	05 28.9						
		S	09 43.1						
		i	13 22.5						
		F	15 16.2 22 20.0						
102	" 6	P	7 37 21.0					287	
		S	37 59.7						
		ME	38 23.0	2.4	-8				
		MN	38 24.0	2.4		+9			
		MZ	38 21.8	1.9		+2			
		F	42 40.0						
103	" 6	P	23 43 15.4					430	
		S	44 13.4						
		ME	44 34.6	3.0	-8				
		MN	44 29.6	2.4		-8			
		F	50 50.0						
104	" 7	P	13 28 11.4					2430	
		i	28 43.8						
		S	32 10.7						
		i	32 59.4						
		L	35 45.2						
		F	45 30.0						
105	" 11	P	8 25 28.8					271	Felt slight
		i	25 33.8						
		i	25 46.8						
		S	26 05.3						
		ME	26 38.8	4.3	+1375				
		MN	26 05.3	4.3		+1625			
MZ	26 40.3	1.9		-463					
F	49 10.0								
106	" 12	P	3 42 02.3					2160	
		i	42 56.1						
		S	45 40.1						
		i	46 27.9						
		L	48 27.9						
		F	54 00.0						
107	" 15	P	14 22 34.1					2690	
		i	23 36.4						
		S	26 54.1						
		i	28 41.6						
		L	30 07.1						
		F	41 20.0						
108	" 16	P	15 01 25.6					433	
		S	02 24.0						
		ME	03 07.9	3.3	+147				
		MN	03 24.0	3.5		+163			
		MZ	03 25.4	1.8		+44			
		F	14 00.0						





No. 184

From 16. July, to 23. July, 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			△ k.m.	Remarks			
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ					
109	July 16	P	15	22	30.3				1836					
		i		22	50.7									
		S		25	38.9									
		i		26	19.9									
		i		26	43.9									
		L		28	05.8									
		ME		31	21.9	3.6	+30							
		MN		30	59.5	4.0		+31						
110	" 17	MZ	30	25.8	3.4				267					
		F	53	20.0				+3						
111	" 17	P	11	05	29.0				403					
		S		06	04.9									
		ME		07	14.1	4.0	-13							
		MN		07	04.1	5.3		-8						
		MZ		06	07.3	2.3								
		F		14	20.0						-2			
		112	" 19	P	17	56	50.0						480	
				S		57	44.3							
ME				58	00.9	2.3	-25							
MN				58	07.8	2.4		-39						
MZ				58	31.5	1.9			-8					
F				18	03	10.0								
113	" 19	P	0	51	04.3				461					
		i		51	15.9									
		S		52	08.9									
		i		52	29.4									
		ME		53	29.6	3.6	+806							
		MN		53	06.5	2.9		+1110						
		MZ		53	17.3	2.0					+413			
		F		1	23	20.0								
114	" 19	P	2	52	24.0				461					
		S		53	26.1									
		ME		54	44.8	3.1	-31							
		MN		54	00.1	3.5		-33						
		MZ		54	29.2	1.9					+6			
		F		59	00.0									
115	" 19	P	3	32	39.0				245					
		S		33	12.0									
		ME		33	56.4	4.0	+19							
		MN		33	42.9	3.6		+13						
		MZ		33	27.6	2.3					-4			
		F		37	40.0									
116	" 23	P	14	23	40.5				57					
		S		23	48.1									
		ME		23	48.3	0.3	+6							
		MN		23	48.1	0.3		-6						
		i		24	04.7									
		F		25	20.0									
117	" 23	P	18	01	15.5				150	Felt slight				
		S		01	35.7									
		ME		01	39.7	2.4	-158							
		MN		01	44.3	2.4		-133						
		MZ		02	08.9	1.9					+44			
		F		14	40.0									
118	" 23	P	18	19	06.17				153					
		S		19	27.2									
		ME		19	27.5	0.3	-6							
		MN		19	27.5	0.3		-6						
		MZ		19	29.6	0.2					+1			
		F												





185

No.

From 23. July, to 26. July, 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
18	July 23	P	18	20	33.5				150		
		S		20	53.7						
		ME		20	53.7	0.3	-8				
		MN		20	53.7	0.3		-5			
		MZ		20	53.4	0.2				+1	
		F		<del>23</del> 30.0							
19	" 23	P	19	37	00.6				153		
		S		37	21.0						
		ME		37	22.5	0.3	+8				
		MN		37	22.8	0.3		-9			
		MZ		37	21.2	0.2				+1	
		F		37	50.0						
20	" 23	P	20	57	21.5				152		
		S		57	42.0						
		ME		57	42.8	0.6	-8				
		MN		57	42.8	0.6		-9			
		MZ		57	42.9	0.2				+1	
		F		21	00	40.0					
21	" 25	P	19	46	29.1				45		
		S		46	35.2						
		ME		46	35.2	0.5	-1				
		MN		46	36.4	0.5		+1			
		F		47	50.0						
22	" 25	P	21	33	19.8				152		
		S		33	40.3						
		ME		33	44.3	0.3	-4				
		MN		33	43.1	0.3		+8			
		MZ		33	43.0	0.2				+1	
		F		36	20.0						
23	" 25	P	23	16	44.2				45		
		S		16	50.2						
		ME		16	50.2	0.3	+11				
		MN		16	50.2	0.3		+8			
		MZ		16	50.2	0.2				+3	
		F		18	50.0						
24	" 26	P	3	39	35.2				411		
		S		40	30.6						
		ME		41	02.6	1.9	-3				
		MN		40	50.0	1.7		-3			
		F		43	00.0						
25	" 26	P	4	03	45.1				150		
		S		04	05.4						
		ME		04	05.4	0.3	+3				
		MN		04	05.7	0.3		+2			
		MZ		04	05.4	0.2				+1	
		F		06	00.0						
26	" 26	P	8	06	44.8				1615		
		i		06	54.0						
		S		09	32.3						
		iE		09	59.4	4.3	+31				
		iN		09	52.7	4.5		+20			
		iZ		09	52.7	2.3				+5	
		F		25	20.0					1850	





No. 186

From 26. July, to 1. August, 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
127	July 26	P S L ME MN F	10	43	08.5 18.5 26.5 05.7 12.9 50.0	5.4 5.8	-9	-8		1850	
128	" 27	P i S L F	10	19	12.0 44.3 47.3 18.8 50.0					1483	
129	" 27	P S ME MN MZ F	14	30	19.3 25.3 25.5 25.5 27.2 30.0	0.4 0.4 0.2	-9	-8	+1	45	
30	" 27	P S ME MN MZ F	17	02	33.0 17.8 47.6 42.6 36.6 00.0	3.7 3.4 2.1	+25	+26	-6	333	
31	" 27	P S ME MN MZ F	19	25	01.2 54.8 05.1 57.3 30.2 50.0	2.4 2.0 2.1	-13	+12	05	695	
32	" 29	P i S L F	4	16	45.9 17.5 53.1 37.9 00.0					1822	
33	" 29	P i i S F	7	49	23.4 17.3 57.2 45.7 00.0					6866	
	" 31	P S ME MN MZ F	8	13	40.0 36.3 17.5 57.1 07.4 00.0	2.1 2.2 1.9	+43	+45	-16	418	
	Aug. 1	P i S i iE iN L F	14	12	01.8 57.7 15.9 41.5 48.5 18.4 26.3 40.0	4.5 4.3	+31	+19		2627	





No. 187

From 3. August, to 27. August, 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			$\Delta$ k.m.	Remarks
			h.	m.	s.		$A_E$ $\mu$	$A_N$ $\mu$	$A_Z$ $\mu$		
36	Aug. 3	P	1	18	27.4				5165		
		i		20	33.0						
		S		25	18.4						
		L		35	45.0						
		ME		44	34.6	12.2	+19				
		MN		44	34.0	14.0		+13			
		MZ		42	20.5	15.8				+3	
F	2	04	40.0								
37	" 16	P	19	54	19.4				92		
		i		54	21.2						
		S		54	31.8						
		ME		54	31.8	0.4	-14				
		MN		54	31.8	0.4		+13			
		MZ		54	31.8	0.3				+6	
		ME		55	02.8	0.8	+51				
		MN		54	31.8	0.8		-26			
MZ		54	51.8	0.8			+12				
F		58	20.0								
38	" 17	P	1	55	17.5				7606		
		i		58	11.5						
		S	2	04	17.8						
		iE		05	30.2	3.8	-53				
		iN		05	51.0	3.8		-39			
		iZ		06	02.3	2.5				-9	
		i		15	50.5						
		F		30	00.0						
39	" 17	P	7	24	23.2				583		
		S		25	41.7						
		ME		26	24.9	3.2	+59				
		MN		26	28.3	3.0		-33			
		MZ		26	24.1	2.1				-13	
		F		29	30.0						
40	" 25	P	8	18	12.3				110		
		S		18	27.1						
		ME		18	43.9	1.6	+8				
		MN		18	36.4	1.6		+8			
		MZ		18	52.0	1.1				+3	
		F		21	50.0						
41	" 27	P	8	45	38.6				314		
		S		46	20.8						
		ME		46	43.2	3.5	+14				
		MN		46	30.4	3.5		+22			
		MZ		46	34.9	1.7				+3	
		F		51	50.0						
42	" 27	P	14	19	19.1				282		
		S		19	57.0						
		ME		20	19.8	3.9	+26				
		MN		19	59.9	4.1		+13			
		MZ		20	39.0	2.0				-2	
		F		24	30.0						
43	" 27	P	14	33	14.7				371		
		S		34	04.7						
		ME		35	00.7	4.4	-24				
		MN		34	46.3	5		+18			
		MZ		34	39.7	2.4				+6	
		F		38	20.0						





No.

[1879]

From \_\_\_\_\_ to \_\_\_\_\_ 19\_\_\_\_

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			△ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
144	Aug. 27	P	15	23	13.7						
		S		28	51.0						
		ME		28	47.1	3.9	-25				
		MN		29	01.0	3.8		-18			
		MZ		29	05.2	1.9			+1		
F		32	00.0								
145	" 28	P	13	11	55.5					281	
		S		12	33.3						
		ME		12	3 4	3.2	-31				
		MN		13	22.0	3.9		-38			
		MZ		12	54.9	2.0			-8		
F		15	20.0								
146	" 29	P	4	59	54.8					335	
		S		5	00	39.9					
		ME		01	23.6	3.9	-31				
		MN		01	30.1	3.8		-19			
		F		04	40.0						
147	" 30	P	5	28	42.3					266	
		S		29	18.1						
		ME		30	40.9	3.9	-13				
		MN		30	54.4	3.8		+5			
		MZ		29	46.3	2.0			-2		
F		34	30.0								
148	" 31	P	0	28	43.0					319	
		S		29	06.0						
		ME		29	55.7	3.6	-6				
		MN		29	40.5	3.0		+6			
		MZ		30	07.3	2.3			+2		
F		32	40.0								
149	" 31	P	5	09	53.7					525	
		S		31	04.5						
		ME		31	02.9	3.0	+6				
		MN		31	36.9	3.0		+4			
		MZ		32	02.3	2.2			+1		
F		36	40.0								
150	" 31	P	13	10	00.4					213	
		S		10	51.1						
		ME		11	00.8	2.1	+19				
		MN		11	16.9	2.3		+26			
		MZ		11	10.9	1.7			+11		
F		14	10.0								
151	" 31	P	17	43	31.7					1463	
		S		46	16.1						
		L		48	09.2						
		ME		48	52.1	3.6	+8				
		MN		48	28.2	5.1		+5			
F		56	40.0								
152	Sept. 1	P	3	10	01.0					341	
		S		10	46.9						
		ME		11	07.6	2.5	+9				
		MN		11	27.4	2.1		-8			
		MZ		11	21.9	1.5			-5		
		F		13	11.8						
		16	40.0								





No.

[1876]

From \_\_\_\_\_ to \_\_\_\_\_ 19\_\_

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
		P	7	23	13.2					1342	
		S		25	35.4						
		L		28	23.7						
		ME		29	24.7	4.0	±8				
		MN		30	07.1	4.5		±6			
		F		34	50.0						
154	" 2	P	16	35	25.4					191	
		i		35	34.0						
		i		35	40.8						
		S		35	51.1						
		ME		35	51.1	0.4	±8				
		MN		35	51.5	0.4		+8			
		MZ		35	51.1	0.4			±1		
		i		36	54.3						
		F		38	40.0						
155	" 3	P	14	36	49.7					1600	
		i		37	27.3						
		S		39	45.7						
		iE		40	35.0	6.0	±6				
		iN		40	35.0	6.4		-6			
		L		41	50.6						
		F		48	10.0						
156	" 4	P	1	41	49.3					2153	
		PR		42	15.6						
		S		45	25.6						
		iE		46	23.2	3.4	-149				
		iN		46	42.0	4.7		-120			
		iZ		45	41.1	3.5			-13		
		L		47	44.1						
		F	2	26	40.0						

The Osaka Meteorological Observatory,  
Seismological Service,  
Osaka, Nippon.





No.190

From 4. Sept., to 13. Sept., 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
57	Sept. 4	P	3	31	01.6	4.6	±8	±13	3077		
		S		34	31.3						
		L		36	01.5						
		ME		37	09.4						
		MN		36	51.3						
F		50	30.0								
58	" 5	P	2	07	34.5	2.6	+6	-6	308		
		S		08	06.0						
		ME		08	06.0						
		MN		08	40.1						
		F		11	30.0						
59	" 5	P	2	12	58.5	2.4	+5	+3	375		
		S		13	49.0						
		ME		14	06.5						
		MN		14	00.8						
		F		16	50.0						
160	" 5	P	2	57	12.3	1.9	-4	-5	430		
		S		58	10.2						
		ME		58	15.4						
		MN		58	22.2						
		F		3	00						20.0
161	" 9	P	5	15	19.3	3.6	+58	+34	303		
		S		16	00.0						
		ME		17	00.0						
		MN		16	55.1						
		MZ		16	44.9						
F		28	40.0								
162	" 9	P	6	17	23.3	5.1	+53	+44	4237		
		S		19	04.2						
		L		23	25.8						
		ME		30	05.0						
		MN		30	07.4						
F		7	28	30.0							
163	" 11	P	14	06	30.0	4.5	+363	-34	994		
		S		07	22.6						
		L		09	36.5						
		ME		10	38.2						
		MN		10	56.9						
MZ		09	56.0								
F		16	30.0								
164	" 12	P	13	30	50.8	2.7	+11	-8	327		
		S		31	20.4						
		L		31	34.7						
		ME		31	55.2						
		MN		31	53.7						
MZ		32	00.1								
F		39	50.0								
165	" 13	P	9	28	11.8	2.5	-11	±13	422		
		S		29	08.6						
		L		29	28.2						
		ME		29	32.7						
		MN		29	42.9						
MZ		29	42.9								
F		33	30.0								





No. 191

From 14. Sept. to 20. Sept. 35

**OSAKA JAPAN****SEISMOLOGICAL BULLETIN  
of the Osaka Meteorological Observatory**

No.	Date	Phase	G.M.T.			Period s	Amplitude			△ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
166	Sept. 14	P	8	29	17.1	"	"	"	"	154	
		S		29	37.9	"	"	"	"		
		ME		30	35.7	2.5	+28	"	"		
		MN		30	33.0	2.5	"	+28	"		
		MZ		29	49.0	2.2	"	"	+18		
		F		36	00.0	"	"	"	"		
167	" 14	P	14	21	00.3	"	"	"	"	557	
		S		22	15.3	"	"	"	"		
		ME		23	42.9	3.3	-88	"	"		
		MN		23	05.3	4.3	"	+75	"		
		MZ		22	57.3	2.2	"	"	-26		
		F		29	30.0	"	"	"	"		
68	" 16	P	12	32	52.8	"	"	"	"	384	
		S		33	44.6	"	"	"	"		
		ME		33	51.9	2.7	-5	"	"		
		MN		34	14.9	2.8	"	-5	"		
		MZ		34	13.8	1.0	"	"	-1		
		F		37	20.0	"	"	"	"		
69	" 16	P	14	50	02.3	"	"	"	"	339	
		S		50	47.9	"	"	"	"		
		ME		51	56.4	4.4	+16	"	"		
		MN		50	24.8	4.6	"	-22	"		
		MZ		51	58.1	2.4	"	"	-6		
		F		15	00	50.0	"	"	"		"
70	" 16	P	20	52	56.1	"	"	"	"	499	
		i		53	05.4	"	"	"	"		
		i		53	13.0	"	"	"	"		
		S		54	03.4	"	"	"	"		
		ME		55	14.4	3.2	-151	"	"		
		MN		54	30.7	3.4	"	+159	"		
		MZ		54	37.9	2.1	"	"	-26		
		F		21	03	20.0	"	"	"		"
71	" 18	P	0	26	03.5	"	"	"	"	1677	
		i		26	17.1	"	"	"	"		
		S		28	57.2	"	"	"	"		
		ME		29	41.5	4.4	+269	"	"		
		MN		29	36.0	5.7	"	+194	"		
		MZ		30	01.9	2.6	"	"	+28		
F		47	30.0	"	"	"	"				
72	" 18	P	8	52	17.4	"	"	"	"	1714	
		S		55	14.8	"	"	"	"		
		ME		55	51.6	4.9	-40	"	"		
		MN		55	49.1	4.3	"	+31	"		
		MZ		56	09.4	2.4	"	"	-8		
		F		9	04	50.0	"	"	"		"
73	" 18	P	20	11	00.4	"	"	"	"	1023	
		S		13	40.4	"	"	"	"		
		ME		14	56.2	4.4	-2.9	"	"		
		MN		14	21.9	4.0	"	-20	"		
		MZ		14	19.7	2.6	"	"	+8		
		F		23	20.0	"	"	"	"		
74	" 20	P	1	53	59.8	"	"	"	"	3980	
		PR		58	44.3	"	"	"	"		
		S		59	45.0	"	"	"	"		
		SR		0	51.7	"	"	"	"		
		L		08	08.3	"	"	"	"		
		ME		08	39.0	23.8	-108	"	"		
		MZ		03	52.7	13.6	"	"	-6		
		F		3	02	30.0	"	"	"		"





No. 192

From 20. Sept., to 30. Sept., 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			△ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
75	Sept. 20	P S F	5	30	26.8 30.0 00.0				4283		
76	" 22	P S ME MN MZ F	4	27	49.4 54.3 16.5 57.1 45.8 47.6 50.0	1.7 1.7 1.5	-46	-50	-19	201	
77	" 22	P S MN F	14	40	48.5 37.9 52.1 50.0	2.1		-20		367	
78	" 23	P S ME MN MZ F	9	25	18.1 12.3 20.0 29.4 23.6 10.0	5.0 5.3 3.3	-38	-43	-5	843	
79	" 24	P S ME MN MZ F	16	39	07.1 49.6 00.3 11.0 26.5 23.4 30.0	3.8 3.4 2.4	-97	-75	-26	316	
80	" 24	P S ME MN MZ F	16	55	18.7 59.6 13.6 27.5 37.1 27.7 02 30.0	3.9 3.6 2.3	-115	-116	-44	304	
81	" 27	P S ME MN MZ F	22	34	58.5 12.2 12.4 12.5 14.9 20.0	0.4 0.4 0.2	-31	-25	-6	102	
182	" 29	P S ME MN MZ F	8	23	28.1 17.4 38.9 40.0 45.7 10.0	2.5 2.5 2.3	-21	-28	-8	366	
183	" 30	P S ME MN MZ F	0	07	52.7 54.0 36.0 37.0 00.0 30.0	3.0 3.0 2.2	-163	-200	-53	455	
184	" 30	P S ME MN MZ F	13	38	15.0 43.3 11.7 05.2 19.0 50.0	2.4 2.4 2.0	-8	-13	-1	210	





# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks		
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ				
35	Oct. 2	P	5	35	54.5	3.6 3.4 2.3	-116	+134	431	758			
		i		36	05.6								
		i		36	28.0								
		S		37	46.6								
		i		38	15.8								
		ME		39	33.3								
		MN		39	17.1								
86	" 2	MZ	38	33.0	2.6 2.8 1.8	-5	-8	+1	210				
		F		6								05	30.0
		P		6								32	46.6
		S		33								14.8	
		ME		33								42.2	
		MN		33								33.0	
		MZ		33								56.1	
187	" 3	F	36	50.0	1.7 1.9 2.0	-20	-33	-8	44.7				
		P		9								29	05.5
		S		30								05.8	
		ME		30								54.5	
		MN		30								52.8	
		MZ		30								35.9	
		F		39								50.0	
188	" 4	P	5	25	28.0				3912				
		i		25	44.4								
		i		27	02.1								
		S		31	04.8								
		i		33	53.1								
		F		42	10.0								
		P		5	20							26.0	
189	" 5	S	20	34.3	0.2 0.2 0.2	+2	+3	+1	62				
		ME		20								34.3	
		MN		20								34.3	
		MZ		20								34.3	
		i		20								44.9	
		F		21								40.0	
		P		3								35	57.9
190	" 6	S	36	32.9	3.0 3.0 1.9	+8	+7	+4	60				
		ME		36								47.3	
		MN		37								04.0	
		MZ		36								32.6	
		F		40								00.0	
		P		3								35	57.9
		S		36								32.9	
191	" 11	ME	36	47.3	3.0 3.0 1.9	+8	+7	+4	60				
		MN		37								04.0	
		MZ		36								32.6	
		F		40								00.0	
		P		3								35	57.9
		S		36								32.9	
		i		33								34.2	
192	" 18	i	33	34.2	0.3 0.3 0.2	+5	+4	+1	88				
		S		35								02.9	
		i		35								33.1	
		S		38								38.3	
		i		30								40.9	
		F		43								30.0	
		P		16								15	44.0





No. 194

From 12 October, 15 October, 1938

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
193	Oct. 12	P	16	47	26.7				938		
		i		47	43.6						
		i		48	07.9						
		i		48	58.1						
		S		49	33.1						
		ME		51	10.8	3.0	+518				
		MN		51	11.4	3.1		-500			
MZ		50	59.6	3.2			+76				
194	" 12	B	17	04	26.0				905		
		S		04	28.1						
		ME		05	25.6	3.1	+128				
		MN		05	23.7	3.2		-125			
		MZ		05	20.2	3.3				+16	
		F		--	----						
195	" 12	P	17	15	43.2				938		
		i		17	08.4						
		S		17	49.6						
		ME		19	10.5	3.8	+12				
		MN		19	07.2	3.8		+11			
		MZ		18	29.2	3.4				+3	
196	" 12	P	18	09	04.4				895		
		S		11	05.2						
		ME		12	15.2	3.0	-9				
		MN		12	13.6	3.3		-8			
		MZ		12	15.7	3.3				-2	
		F		--	----						
197	" 12	P	18	16	22.2				957		
		i		16	35.3						
		S		18	31.1						
		ME		19	57.5	3.5	+100				
		MN		19	58.6	3.7		+97			
		MZ		20	14.6	3.3				+18	
198	" 13	P	1	59	31.2				877		
		i		59	31.2						
		i	2	59	57.3						
		i		00	27.3						
		S		01	29.3						
		ME		02	33.4	4.0	+250				
		MN		02	37.4	3.0		+194			
MZ		02	43.2	3.3			-28				
F		18	30.0								
199	" 15	P	6	40	10.7				569		
		S		41	27.3						
		F		45	10.0						
200	" 15	P	10	32	28.6				784		
		S		34	14.3						
		ME		35	30.3	2.6	+11				
		MN		35	15.8	2.4		+13			
		MZ		34	40.7	2.1				+5	
		F		41	40.0						





No. 115

From 15. October, to 18. October, 1935

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			$\Delta$ k.m.	Remarks
			h.	m.	s.		$A_E$ $\mu$	$A_N$ $\mu$	$A_Z$ $\mu$		
201	Oct. 15	P	14	36	10.5				357		
		S		36	58.6						
		ME		36	31.6	3.5	-188				
		MN		37	07.3	3.5		-188			
		MZ		37	26.1	2.3				-53	
		F		50	10.0						
202	" 18	P	0	14	11.1				785		
		i		14	34.6						
		S		15	56.9						
		ME		17	11.0	3.0	+563				
		MN		17	04.4	3.0		+525			
		MZ		16	34.7	2.4				+100	
		F		--	----						
203	" 18	P	0	31	31.0				948		
		S		33	39.6						
		ME		34	10.2	3.0	+50				
		MN		34	08.4	3.0		+47			
		MZ		34	15.8	2.2				+10	
		F		--	----						
204	" 18	P	5	54	00.7		XX		922		
		S		56	05.0						
		ME		57	21.1	3.2	+36				
		MN		56	35.8	3.4		-44			
		MZ		57	23.6					+8	
		F		6	00	40.0					
205	" 18	P	6	12	59.4				903		
		S		15	01.1						
		ME		15	39.2	2.6	+13				
		MN		15	42.1	2.6		+13			
		MZ		15	51.0	2.0				+3	
		F		23	00.0						
206	" 18	P	11	09	36.0				3361		
		S		14	44.4						
		ME		15	20.1	5.1	+122				
		MN		15	10.9	4.7		+144			
		MZ		15	04.0	4.4				29	
		F		12	07	00.0					
207	" 18	P	14	56	01.7				814		
		i		56	10.4						
		i		57	22.2						
		S		57	51.4						
		i		58	14.3						
		ME		59	01.9	3.8	+200				
		MN		59	10.2	4.0		+228			
		MZ		59	04.2	2.4				+31	
		F		15	18	30.0					
208	" 18	P	21	53	21.4				792		
		S		55	08.1						
		i		55	32.1						
		ME		56	54.2	4.0	+194				
		MN		57	16.2	3.2		+219			
		MZ		57	17.2	3.5				+22	
		F		22	10	00.0					





No. 196

From 19. October, to 31. October, 19 35

# OSAKA JAPAN

## SEISMOLOGICAL BULLETIN of the Osaka Meteorological Observatory

No.	Date	Phase	G.M.T.			Period s	Amplitude			△ k.m.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
209	Oct. 19	P	0	53	46.0	3.0 2.8 2.2	-31	-38	-7	963	
		i	54	13.7							
		S	55	55.8							
		ME	56	56.6							
		MN	56	38.2							
		MZ	56	50.3							
F	1	06	10.0								
210	" 19	P	2	41	12.5	3.0 3.0 2.4	+34	-38	+9	886	
		S	43	11.9							
		ME	44	30.9							
		MN	44	22.3							
		MZ	44	26.5							
		F	53	30.0							
211	" 27	P	19	03	47.0	0.2 0.2 0.2	-8	+9	±1	62	
		S	03	55.3							
		ME	03	55.4							
		MN	03	55.4							
		MZ	03	55.9							
		i	04	11.2							
F	05	50.0									
212	" 30	P	2	06	12.5	2.4 1.8	+19	+5		1252	
		S	08	25.7							
		ME	09	12.5							
		MZ	09	22.5							
		F	15	10.0							

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