



No.

From *January* to *March* 19*36*

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)

1936

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	300	-	0.003	20
A_N :	300	-	0.003	20
A_Z :	150	-	0.004	20

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	40	37	0.023	80
A_N :	40	37	0.023	80
A_Z :	40	35	0.014	80

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A_E μ	A_N μ	A_Z μ		
1	Jan 2	P	22	42	534				3900	Western part of New Guinea.	
		PR ₁		44	122						
		PR ₂		"	221						
		PCP		45	141						
		S		48	317						
		SR ₁		50	531						
		SCS		53	284						
		L		55	318						
		ME	23	6	535	155	± 7				
		MN		"	521	150		± 8			
		MZ		7	89	211		± 1			
2	17	F		30	505				52	Near Kyoto City, E135.75 N35.0	
		P	19	33	458						
		S		"	470						
		S		"	528						
		ME		"	547	03	- 75				
		MN		"	550	03		- 63			
		Mz		"	536	03		- 28			
3	13	F		40	100				272	Near Mt. Tateyama.	
		P	4	55	148						
		S		"	514						
		ME		56	75	16	+ 24				
		MN		"	191	20		± 22			
		Mz		"	106	17		+ 13			
4	20	F	5	0	00				3545	Near Mindanao Philippine Deep.	
		P	17	3	33						
		S		"	579						
		PR ₁		4	145						
		PCP		5	329						
		S		8	225						
5	21	F		30	300				107	Near Kiyohara, Wakayama Prefecture.	
		P	6	55	574						
		S		55	138						
		ME		56	138	03	+ 14				
		MN		"	138	03		- 13			



No.

From to 19.....

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)

1936

	T_0	ϵ	$\frac{r}{T_0^2}$	V		T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	300	-	0.003	20	A_E :	40	40	37	80
A_N :	300	-	0.003	20	A_N :	40	40	37	80
A_z :	300	-	0.004	20	A_z :	40	40	35	80

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A_E μ	A_N μ	A_z μ		
6	Jan 29	F	6	59	00					493	Kuju-Kuri Shore, Tiba Prefecture. E140.6 N35.6
		P	1	29	42						
		S		30	106						
		ME		"	496	23	+ 24				
		MN		"	491	24		± 38			
		MZ		31	19	21			- 9		
7	Feb. 2	F		36	00					94	Near Mt. Senzadake, Mie Prefecture.
		P	16	38	36						
		S		"	162						
		ME		"	197	02	- 8				
		MN		"	191	02		+ 9			
		MZ		"	197	02			+ 3		
8	5	F		40	400					45	Near Kyoto City, Felt at Osaka slightly
		P	17	11	351						
		S		"	415		+ 44	- 16	- 13		
		ME		"	430	02	- 103				
		MN		"	458	02		- 45			
		MZ		"	419	02			- 13		
		ME		12	410	25	- 70				
		MN		"	80	23		- 88			
		MZ		"	385	17			- 31		
9	7	F		17	100					3122	Kansou district, China
		P	9	2	42						
		PR		3	40						
		PCP		5	184						
		S		6	560						
		SR ₂		8	426						
		L		11	201						
		ME		14	449	78	+ 78				
		MN		12	465	70		- 63			
MZ		"	578	30			- 8				
10	8	F		45	400					3828	Distant earthquake.
		P	12	18	562						
		S		20	280						



No.

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)

1936

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	300	-	0.003	20
A_N :	300	-	0.003	20
A_Z :	150	-	0.004	20

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	40	37	0.023	80
A_N :	40	37	0.023	80
A_Z :	40	35	0.014	80

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A_E μ	A_N μ	A_Z μ		
11	Feb. 12	L	12	25	45.8						
		L		26	57.3						
		L		30	54.1						
		F		35	40.0						
		P	9	40	13					5746	Eastern Part of Java.
		PCP		41	17.3						
		PR ₁		42	12.1						
		PR ₂		42	4.1						
13	15	S		47	29.1						
		SR ₁		51	3.4						
		F		56	20.0						
		P	20	23	37.5					1451	
		L		24	34.8						
		S		26	9.6						
		ME		"	25.1	24	-	16			
13	15	MN		"	25.5	24		-	13		
		F		30	20.0						
		P	12	54	26.0					4286	Northwestern Part of New-Guinea.
		PR ₁		56	8.8						
		PCS		59	31.7						
		S	13	0	27.4						
		SR ₁		3	7.9						
		SCS		4	38.4						
		L		8	27.3						
		ME		20	50.6	143	-	11			
14	21	MN		"	42.4	15.5		-	6		
		MZ		19	31.4	148			-	1	
		F		39	50.0						
		P	1	8	5.9		+57.50	+46.25	+36.20	-	{ E135°40'S N34°31'
		L		"	7.9						Near Volcano
		ME		8	-		19833				Futagami, The
		MN		8	-			20000			frontier of Yamato
15	21	MZ		8	-				5833	and Kawati, Felt	
		P	2	9	57.9				-26	at Osaka strong.	
		S		10	07				-178	After shocks of No. 14	



No.

From to 19.....

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)

1936

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	300	-	0.003	20
A_N :	300	-	0.003	20
A_Z :	150	-	0.004	20

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	40	37	0.023	80
A_N :	40	37	0.023	80
A_Z :	40	35	0.014	80

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks	
			h.	m.	s.		A_E μ	A_N μ	A_Z μ			
16	Feb 21	ME	2	10	08	1.0	-200			20	P-S 2.78 After shock of No. 14	
		MN	"	"	08	1.0		+175				
		MZ	"	"	09	0.4			-275			
		F		13	400							
		P	2	16	10							
17	21	S	"	"	38					20	P-S 2.74 After shock of No. 14	
		Mz	"	"	39	0.2			-1			
		F	"	"	400							
		P	2	18	313							
		S	"	"	340							
18	21	Mz	"	"	340	0.2			-8	21	P-S 2.79 After shock of No. 14	
		F		20	100							
		P	2	29	466							
		i	"	"	468							
		S	"	"	474							
19	21	Mz	"	"	474	0.2			-4	21	P-S 2.83 After shock of No. 14	
		F		30	400							
		P	2	36	456							
		i	"	"	464							
		i	"	"	472							
20	21	S	"	"	484					18	P-S 2.39 After shock of No. 14	
		Mz	"	"	493	0.2			-4			
		F		38	100							
		P	2	53	05							
		S	"	"	29							
21	21	Mz	"	"	31	0.2			-3	19	P-S 2.54 After shock of No. 14	
		F		54	300							
		P	3	19	556							
		S	"	"	581							
		Mz	"	"	581	0.2			-4			
22	21	F		20	300					22	P-S 3.00 After shock of No. 14	
		P	4	4	498				-63			
		S	"	"	528				+175			
		ME		5	170	2.0	+675					
		MN	"	"	175	2.0		+850				



No.

From to 19

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)

1936

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	300	-	0.003	20
A_N :	300	-	0.003	20
A_Z :	150	-	0.004	20

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	40	37	0.023	80
A_N :	40	37	0.023	80
A_Z :	40	35	0.044	80

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A_E μ	A_N μ	A_Z μ		
23	Feb. 21	Mz	4	5	179	20			+ 482	21	P-S 2.83 After shock of No. 14
		F		13	200						
		P	4	51	324						
		S		"	352						
		Mz		"	352						
24	21	F		52	00	20			\pm 4	21	P-S 2.80 After shock of No. 14
		P	6	38	323						
		S		"	351						
		Mz		"	353						
		F		39	300						
25	21	P	7	4	549	0.2			+ 4	19	P-S 2.56 After shock of No. 14
		S		"	575						
		MN		"	577						
		Mz		"	575						
		F		5	400						
26	21	P	9	22	404	0.2			+ 8	21	P-S 2.83 After shock of No. 14
		S		"	432						
		MN		"	435						
		Mz		"	435						
		F		23	500						
27	21	P	11	0	381	0.2			+ 10	19	P-S 2.52 After shock of No. 14
		S		"	406						
		MN		"	406						
		Mz		"	406						
		F		1	500						
28	21	P	15	53	572	0.2			+ 9	19	P-S 2.57 After shock of No. 14
		S		54	07						
		S		"	18						
		MN		"	20						
		Mz		"	20						
29	21	F		56	400	11.7			- 21	3848	Near New Ireland
		P	17	4	421						
		S		10	206						
		ME		14	312						
		MN		"	391						



No.

From to 19...

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)

1936

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	300	-	0.003	20
A_N :	300	-	0.003	20
A_Z :	150	-	0.004	20

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	40	37	0.023	80
A_N :	40	37	0.023	80
A_Z :	40	35	0.014	80

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A_E μ	A_N μ	A_Z μ		
30	Feb. 21	F	17	48	00						
		P	17	37	504				19	P-S 2 ^s .56	
		S	"	"	530					After shock of	
		M _N	"	"	530	0.2	+ 8			No. 14	
		M _Z	"	"	530	0.2		- 5			
31	21	F	39	100							
		eP	18	39	87				-	After shock of	
		S	"	"	111					No. 14	
32	21	M _Z	"	"	111	0.2			- 3		
		F	"	"	300						
		P	19	16	120				18	P-S 2 ^s .43	
		S	"	"	144					After shock of	
33	21	M _N	"	"	146	0.3			- 28	No. 14	
		M _Z	"	"	146	0.3			- 19		
		F	17	400							
		P	19	18	184				18	P-S 2 ^s .42	
34	21	S	"	"	208					After shock of	
		M _N	"	"	210	0.3			- 26	No. 14	
		M _Z	"	"	210	0.3			- 15		
		eP	19	18	577				-	After shock of	
35	21	S	19	21						No. 14	
		M _N	"	"	23	0.3	+ 16				
		M _Z	"	"	21	0.3			+ 9		
		F	20	300							
		P	21	49	07				19	P-S 2 ^s .53	
		S	"	"	21					After shock of	
36	21	M _N	"	"	32					No. 14	
		M _Z	"	"	34	0.2	- 10				
		F	50	100							
		P	21	53	383				21	P-S 2 ^s .76	
		S	"	"	411					After shock of	
		M _E	"	"	411	1.7	- 108			No. 14	
		M _N	"	"	411	1.7			- 134		
M _Z	"	"	411	1.7			- 79				



No.

From _____ to _____ 19__

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)

1936

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	300	-	0.003	20
A_N :	300	-	0.003	20
A_z :	150	-	0.004	20

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	40	37	0.023	80
A_N :	40	37	0.023	80
A_z :	40	35	0.014	80

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A_E μ	A_N μ	A_z μ		
37	Feb. 21	F	21	56	500						
		eP	23	7	407						
		S	"	"	431					18	P-S 2 ^s .43
		Mz	"	"	431	02			+ 3		After shock of No. 14
38	22	F	8	400							
		eP	8	1	493						
		S	"	"	519					19	P-S 2 ^s .56
		MN	"	"	519	03	+ 8				After shock of No. 14
39	22	Mz	"	"	519	03			+ 4		
		F	3	100							
		P	19	44	292						
		S	"	"	317					19	P-S 2 ^s .54
40	23	Mz	"	"	320	03			- 5		After shock of No. 14
		F	46	100							
		P	17	6	29						
		S	"	"	55					19	P-S 2 ^s .58
41	24	MN	"	"	55				- 20		After shock of No. 14
		Mz	"	"	55				+ 9		
		F	8	100							
		eP	18	31	477						
42	25	S	"	"	503					19	P-S 2 ^s .59
		Mz	"	"	528	02			\pm 3		After shock of No. 14
		F	35	500							
		eP	6	10	269						
43	26	S	"	"	275					19	P-S 2 ^s .56
		Mz	"	"	275	02			+ 3		After shock of No. 14
		F	11	300							
		P	0	14	585						
44	26	S	"	"	13					21	P-S 2 ^s .83
		Mz	"	"	13	02			+ 4		After shock of No. 14
		F	16	00							
		P	9	58	577						
44	26	S	"	"	59	21				20	P-S 2 ^s .89
		MN	"	"	21	02	+ 7				After shock of No. 14
		Mz	"	"	21	02			+ 4		



No.

From to 19

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	ϵ	$\frac{r}{T_0^2}$	V		T_0	ϵ	$\frac{r}{T_0^2}$	V
1936 $A_E:$	300	-	0.003	20	$A_E:$	40	37	0.023	80
$A_N:$	300	-	0.003	20	$A_N:$	40	37	0.023	80
$A_Z:$	150	-	0.004	20	$A_Z:$	40	35	0.014	80

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A_E μ	A_N μ	A_Z μ		
45	Feb. 26	F	10	0	100					65	Middle basin of Arida river, Atakayama Prefec- -ture.
		P	17	41	01						
		S	"	"	88						
		MN	"	"	234	03	+ 8				
		Mz	"	"	238	02			+ 3		
46	27	F	45	200						19	P-S 2.56 After shock of No. 14
		P	3	10	446		- 04	+ 28			
		S	"	"	472						
		Mz	"	"	472	03			- 10		
47	27	F	12	300						5027	Near Timor Islands
		P	10	12	142						
		S	"	"	578						
		ME	22	134	88	+ 25					
		MN	"	"	255	86		- 38			
48	29	F	11	15	500					18	P-S 2.43 After shock of No. 14
		P	1	25	226						
		S	"	"	250						
		MN	"	"	265	03	+ 10				
		Mz	"	"	263	03			- 8		
49	Mar. 1	F	26	500						1617	North off the Cape of Sivatoko E 115.0 N 46.8
		P	10	25	162						
		S	"	"	39						
		ME	29	568	60	+ 37					
		MN	"	"	422	54		- 54			
		Mz	"	"	31	23			- 11		
50	2	F	45	500						859	SE off the Cape of Ermo, E 144.0 N 41.6
		P	3	21	167						
		S	"	"	125						
		ME	25	467	185	- 750					
		MN	24	343	190		+ 765				
		Mz	"	"	205	25			+ 31		
51	2	F	34	500						20	P-S 2.74 After shock of No. 14
		P	18	6	458						
		S	"	"	485						
		ME	"	"	486	02	+ 50				



No.

From to 19

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)

1936

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	300	-	0.003	20
A_N :	300	-	0.003	20
A_Z :	150	-	0.004	20

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	40	37	0.023	80
A_N :	40	37	0.023	80
A_Z :	40	35	0.014	80

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A_E μ	A_N μ	A_Z μ		
52	Mar. 10	MN	18	6	525	0.2		+ 47		779	South off the cape of Erimo.
		Mz			486	0.2			+ 34		
		F		9	100						
		P	20	38	166						
		PR ₁			205						
		S		40	16						
		SR ₁			126						
		L			536						
53	11	ME	43	520	137	± 75				787	East off Miyako, Iwate prefecture.
		MN	41	426	159		+ 35				
		F	49	100							
		P	0	45	514						
54	18	S	47	374					18	After shock of No. 14	
		MN	48	347	66		+ 100				
		Mz		458	20			+ 28			
		F	1	0	150						
		P	3	57	377						
		S			461						
55	22	ME		461	03	+ 20			5400	Near Solomon Islands	
		MN		411	03		+ 15				
		Mz		461	03			+ 14			
		F	59	230							
		P	12	22	512						
		S		29	583						
56	23	L	41	16					161	Near Hatiman, Ihku Prefecture	
		ME	41	477	139	± 25					
		MN		516	19.9		± 25				
		F	56	00							
		P	1	43	268						
		S			484						
		ME		586	06	- 7					
		MN		586	06		- 7				
57	24	Mz	44	289	06			- 3	247	Kumano-nada	
		F	46	300							
		P	17	58	401						



No.

From to 19.....

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)

1936

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	300	-	0.003	20
A_N :	300	-	0.003	20
A_Z :	150	-	0.004	20

	T_0	ϵ	$\frac{r}{T_0^2}$	V
A_E :	40	37	0.023	80
A_N :	40	37	0.023	80
A_Z :	40	35	0.014	80

No.	Date	Phase	G.M.T.			Period s	Amplitude			Δ k.m.	Remarks
			h.	m.	s.		A_E μ	A_N μ	A_Z μ		
58	Mar. 31	S	17	59	133	45				1662	Marianne Islands
		M _N	"	359							
		F	18	4	100						
		P	3	36	220						
		PR ₁	"	419							
		S	39	142							
		SR ₁	"	472							
		L	41	62							
		PCS	44	371							
F	51	300									