

# TYOSI, JAPAN.

## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY

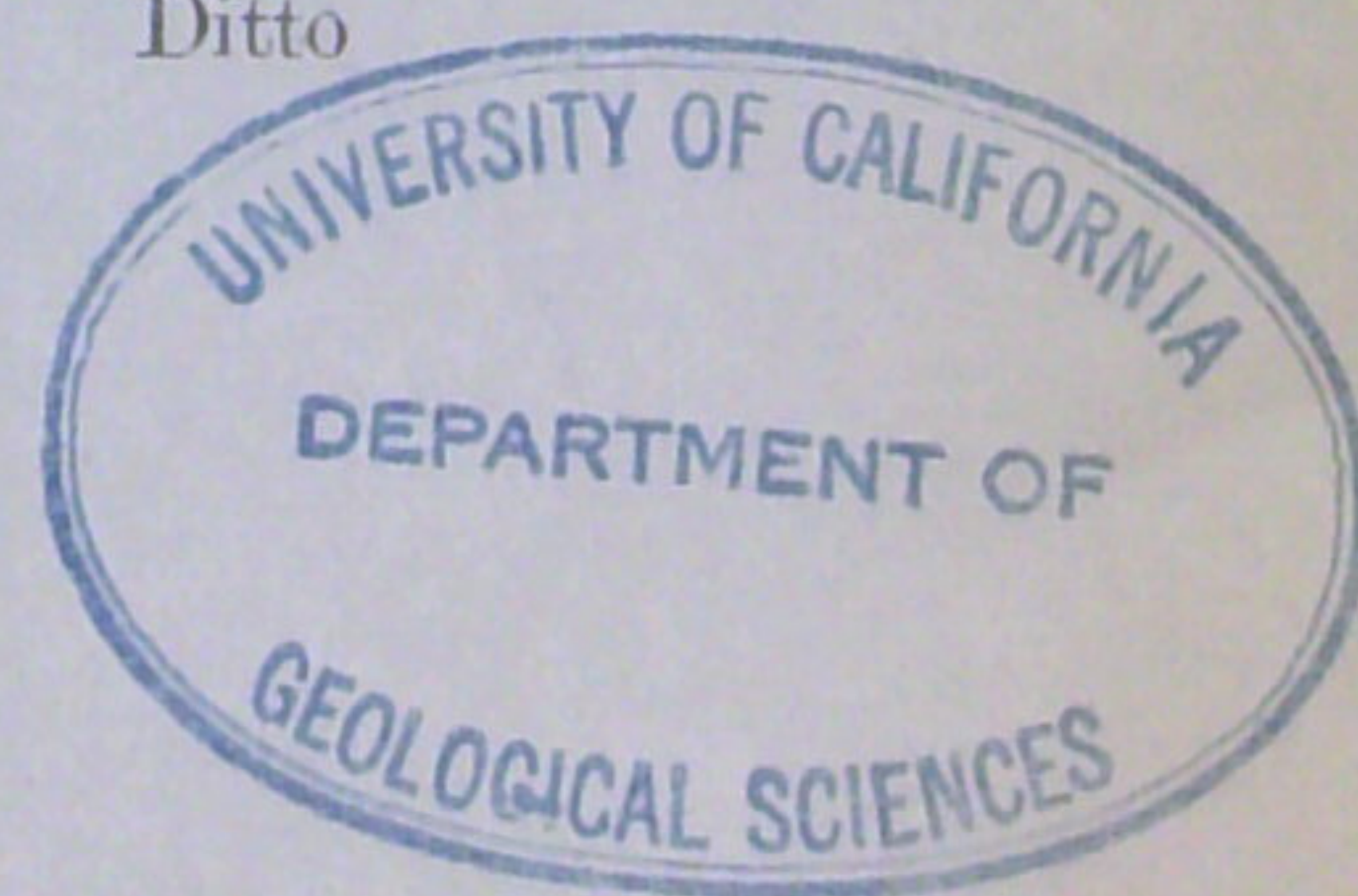
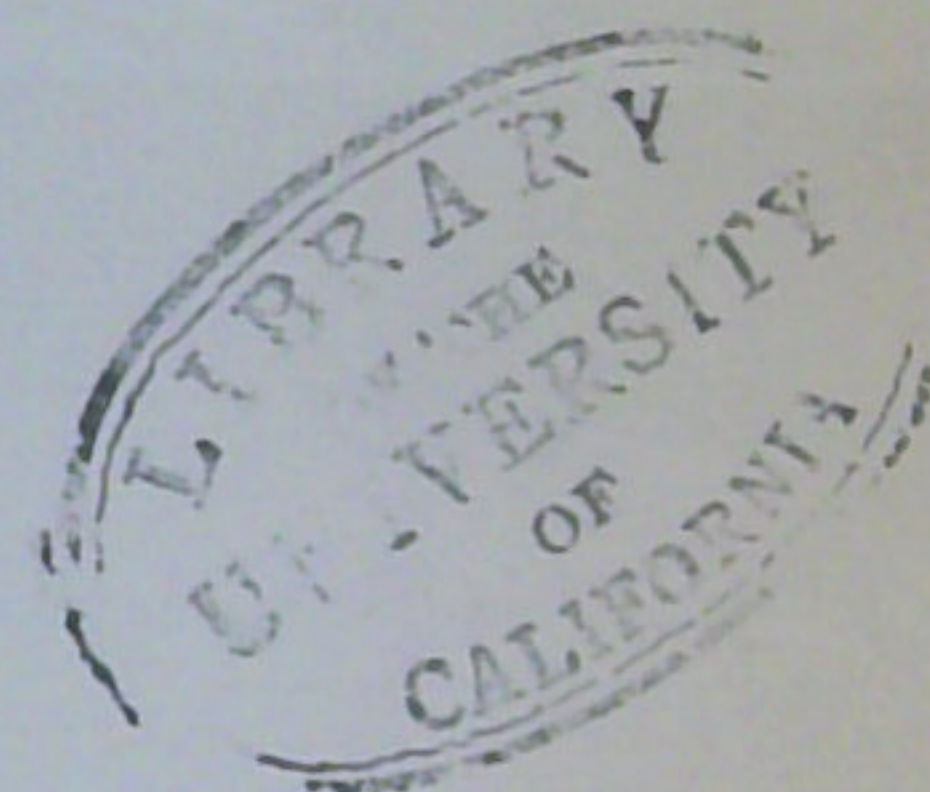
$\varphi = 35^{\circ} 44' N$     $\lambda = 140^{\circ} 52' E$     $h = 18.2m$    Lithologic foundation : Loam (Tertiary)

### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS <sub>kg</sub>	DAMPING	T <sub>0</sub>	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	N — S	200	Air				85
	E — W	200	"				85
Wiechert	U — D	80	"				74
Omori	N — S	14.5	Magnetic	20	0.003	2—4	20
Omori	E — W	15	"	20	0.004	2—4	20
Omori	N — S	46.1		18	—		120
Omori	N — S	20		4	0.035		50
	E — W	20		4	0.065		50
C. M. O.	N — S	2.3 3.5	Magnetic	3.5	0.004	2—3	2
	E — W	" 3.5	"	3.5	0.004	2—3	2
	U — D	" 5.0	"	5.0	0.003	2—3	3
Omori	U — D	6.1		5	—		20

From Jan. 2 to Jan. 5 1929 No. 1

No.	Date	Phase	Time 135° E			Period	Amplitude			$\Delta$	Remarks
			h.	m.	s.		AE	AN	AZ		
			h.	m.	s.	s.	$\mu$	$\mu$	$\mu$	km.	
1	Jan. 2	P	0	01	51.1					28	
		LN	0	01	54.8			+19			
		FN	0	02	44						
2	Jan. 2	P	0	34	17.8					25	
		LN	0	34	21.2			+12			
		FN	0	34	55						
3	Jan. 3	P	7	34	15.0					151	
		L	7	34	35.4						
		MN	7	34	38.5			+22			
		FN	7	37	23						
4	Jan. 5	P	2	17	38.0					39	
		LN	2	17	43.3			+52			
		ME	2	17	45		-35				
		F	—	—	—						
5	Jan. 5	P	2	17	55.7					42	Off the cape Inubō.
		L	2	18	01.3						Felt slightly.
		MN	2	18	01.9			-23			
		ME	2	18	02.6		-17				
		F	—	—	—						
6	Jan. 5	P	2	28	13.4					39	Ditto
		L	2	28	18.7						
		F	—	—	—						
7	Jan. 5	P	2	33	30.8					36	
		L	2	33	35.7						
		F	—	—	—						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From **Jan. 5** to **Jan. 13** **1929** No. **2**

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
8	Jan. 5	P	2	37	01.0				36		
		L	2	38	05.8						
		F	—								
9	Jan. 5	P	3	47	04.2				39		
		L	3	47	09.5						
		F	—								
10	Jan. 5	P	5	45	45.0				142		
		L	5	45	54.1						
		M <sub>N</sub>	5	45	55.8		+9				
		F	5	47	45						
11	Jan. 9	P	3	07	19.6				74	Kasima nada. Felt slightly.	
		L	3	07	29.6						
		M <sub>E</sub>	3	07	31.4	+143					
		M <sub>Z</sub>	3	07	32.5			+25			
		M <sub>N</sub>	3	07	40.1		+60				
		F <sub>N</sub>	3	10	32						
		F <sub>E</sub>	3	10	51						
12	Jan. 10	P	11	46	04.2				86		
		L	11	46	15.8						
		M <sub>N</sub>	11	46	29.4		-8				
		F <sub>N</sub>	11	48	10						
3	Jan. 11	P	4	25	56.3						
		F	—								
14	Jan. 11	P	7	53	34.6				482		
		L	7	54	39.6						
		F	—								
15	Jan. 11	P	10	44	57.0				95		
		L	10	45	09.8						
		M <sub>N</sub>	10	45	18.6						
		F <sub>N</sub>	10	47	51						
16	Jan. 12	P	5	30	02.3				71		
		L	5	30	11.8						
		F	—								
17	Jan. 13	P	9	07	13.2				2028		
		L	9	10	33.2						
		M <sub>E</sub>	9	11	14.8	+463					





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Jan. 14 to Jan. 23 1929 No. 3

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	Az μ		
		MN	9	18	47.7						
		FN	10	59	48			+365			
		FE	12	20	48						
18	Jan. 14	P	17	41	31.5					43	
		LN	17	41	37.3						
		F	17	42	17						
19	Jan. 15	P	3	19	27.2					102	
		L	3	19	41.0						
		F			—						
20	Jan. 15	P	5	56	35.5					26	
		L	5	56	39.0						
		F			—						
21	Jan. 16	P	4	15	53.0					26	
		L	4	15	56.5						
		F			—						
22	Jan. 18	P	13	16	32.2					51	
		L	13	16	39.1						
		F			—						
23	Jan. 20	P	4	28	45.3					25	
		L	4	28	48.7						
		F			—						
24	Jan. 21	P	11	22	35.0					131	
		L	11	22	52.6						
		MN	11	22	55.8			+21			
		ME	11	23	05.4		+30				
		F	11	25	25						
25	Jan. 23	P	9	04	35.7					56	
		L	9	04	43.2						
		FN	9	05	24						
26	Jan. 23	P	9	06	38.2					47	
		L	9	06	44.5						
		F			—						
27	Jan. 23	P	9	08	51.4					48	
		LN	9	08	57.8			+20			
		ME	9	09	10.0		+12				
		F	9	10	05						





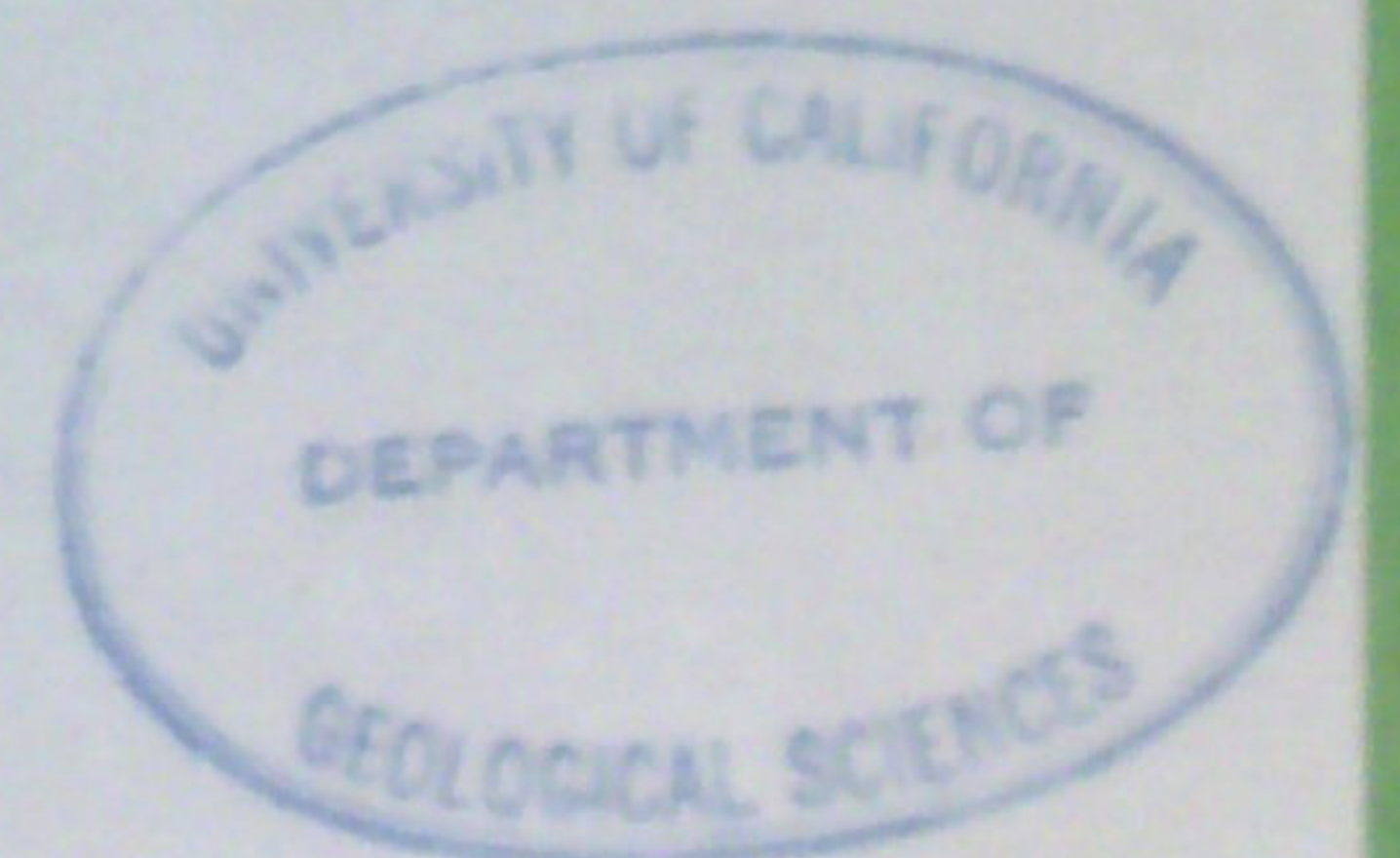
# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Jan. 24 to Jan. 31 1929 No. 4

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	n.	s.		ΔE μ	ΔN μ	ΔZ μ		
28	Jan. 24	P F	1	06	10.4						
29	Jan. 24	P L F	13	51	17.4 25.8				62		
30	Jan. 25	P L F	21	15	03.3 11.0				57		
31	Jan. 26	P LN FN	7	15	31.9 38.5 10			-7	49		
32	Jan. 26	P L F	21	03	02.9 06.2 42	+156	+105		25	The coast of kujūkurihama. Felt moderately.	
33	Jan. 26	P L F	22	36	30.6 36.7				45		
34	Jan. 27	P L F	14	04	37.6 57.2 28				146		
35	Jan. 29	P L F	22	03	26.1 34.0				59		
36	Jan. 31	P L F	21	57	04.2 16.2				89		





# TYOSI, JAPAN.



## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY

$\varphi = 35^{\circ} 44' N$      $\lambda = 140^{\circ} 52' E$      $h = 18.2m$     Lithologic foundation : Loam (Tertiary)

### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS <sub>kg</sub>	DAMPING	$T_0$	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	N — S	200	Air				85
	E — W	200	"				85
Wiechert	U — D	80	"				74
Omori	N — S	14.5	Magnetic	20	0.003	2—4	20
Omori	E — W	15	"	20	0.004	2—4	20
Omori	N — S	46.1		18	—		120
Omori	N — S	20		4	0.065		50
	E — W	20		4	0.065		50
C. M. O.	N — S	2.3 3.5	Magnetic	3.5	0.004	2—3	2
	E — W	" 3.5	"	3.5	0.004	2—3	2
	U — D	" 5.0	"	5.0	0.003	2—3	3
Omori	U — D	6.1		5	—		20

From Feb. 1 to Feb. 14 1929 No. 5

No.	Date	Phase	Time 135° E			Period	Amplitude			$\Delta$	Remarks
			h.	m.	s.		AE	AN	AZ		
			h.	m.	s.	s.	$\mu$	$\mu$	$\mu$	km.	
37	Feb. 1	P	1	03	05.8					167	
		L	1	03	28.3						
		F	—								
38	Feb. 3	P	7	10	17.2					62	
		L	7	10	25.5						
		MN	7	10	30.7		+7				
		FN	7	12	27						
39	Feb. 4	P	4	08	34.1					89	
		LE	4	08	46.1		-13				
		FN	4	09	49						
		FE	4	10	09						
40	Feb. 6	P	15	52	40.9					97	
		L	15	52	54.0						
		F	—								
41	Feb. 7	P	3	25	28.7					269	
		L	3	26	05.0						
		F	—								
42	Feb. 7	P	23	01	30.4					74	
		L	23	01	40.4						
		F	—								
43	Feb. 10	P	15	23	48.3					44	
		L	15	23	54.2						
		F	—								
44	Feb. 14	P	1	15	06.4				43		





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Feb. 14 to Feb. 25 1929 No. 6

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
		L	1	15	12.2						
		F	—								
45	Feb. 14	P	13	38	15.2				48		
		L	13	38	21.7						
		F	—								
46	Feb. 16	P	12	47	30.5				38		
		LN	12	47	35.6			+ 15			
		F	12	49	05						
47	Feb. 17	P	19	54	37.2				80	Off the mouth of Kuji river.	
		L	19	54	48.0					Felt slightly.	
		MN	19	54	53.7			+ 14			
		ME	19	54	56.4		+ 13				
		F	19	56	01						
48	Feb. 22	P	0	06	05.0				39		
		L	0	06	10.3						
		F	—								
49	Feb. 22	P	0	24	15.9				45		
		L	0	24	22.0						
		MN	0	24	22.7			+ 12			
		FN	0	25	05						
50	Feb 22	P	3	18	48.6				137		
		L	3	19	07.1						
		MN	3	19	14.6			+ 25			
		ME	3	19	15.4		+ 32				
		FN	3	21	22						
		FE	3	21	47						
51	Feb 22	P	13	00	41.3				157		
		L	13	01	02.5						
		ME	13	01	08.8		- 38				
		MN	13	01	16.1			- 36			
		FE	13	03	35						
		FN	13	05	02						
52	Feb. 24	P	15	12	17.0						
		F	—								
53	Feb. 25	P	2	36	25.1				373		
		LN	2	37	15.4			+ 9			
		F	2	40	02						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Feb. 25 to Feb. 27 1929 No. 7

No.	Date	Phase	Time 135° E			Period	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
54	Feb. 25	P	3	18	35.8				53		
		LN	3	18	43.0		+ 7				
		FN	3	19	29						
55	Feb. 25	P	3	52	20.2				56		
		L	3	52	27.7						
		F			—						
56	Feb. 25	P	7	24	11.1				92		
		L	7	24	23.5						
		F			—						
57	Feb. 25	P	18	32	13.4				77		
		LN	18	32	23.8		+ 6				
		F	18	33	31						
58	Feb. 26	P	2	05	57.4				505		
		L	2	07	05.4						
		F	2	09	19						
59	Feb. 26	P	4	01	24.9						
		F			—						
60	Feb. 26	P	5	13	54.9				140		
		L	5	14	13.7						
		MN	5	14	17.7		+ 4				
		F			—						
61	Feb. 26	P	19	53	35.8				48		
		LN	19	53	42.3		+10				
		ME	19	53	43.7	+14					
		F	19	54	36						
62	Feb. 27	P	18	35	25.6				200		
		L	18	35	52.6						
		MN	18	35	57.5		- 9				
		ME	18	35	58.0	+ 7					
		F	18	37	53						





# TYOSI, JAPAN.



## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY

$\varphi = 35^{\circ} 44' N$   $\lambda = 140^{\circ} 52' E$   $h = 18.2m$  Lithologic foundation : Loam (Tertiary)

### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS <sub>kg</sub>	DAMPING	$T_0$	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	N — S	200	Air				85
	E — W	200	"				85
Wiechert	U — D	80	"				74
Omori	N — S	14.5	Magnetic	20	0.003	2—4	20
Omori	E — W	15	"	20	0.004	2—4	20
Omori	N — S	46.1		18	—		120
Omori	N — S	20		4	0.065		50
	E — W	20		4	0.065		50
C. M. O.	N — S	2.3 3.5	Magnetic	3.5	0.004	2—3	2
	E — W	2.3 3.5	"	3.5	0.004	2—3	2
	U — D	2.3 5.0	"	5.0	0.003	2—3	3
Omori	U — D	6.1		5	—		20

From Mar. 1 to Mar. 7 1929 No. 8

No.	Date	Phase	Time 135° E			Period	Amplitude			$\Delta$	Remarks
			h.	m.	s.		AE	AN	AZ		
63	Mar. 1	P	12	42	56.3		$\mu$	$\mu$	$\mu$	km.	Off the coast of Kujūkurihama. Felt slightly.
		L	12	43	01.7						
		MN	12	43	03.4						
		ME	12	43	03.7						
		F	12	44	25						
64	Mar. 2	P	18	14	27.3					109	
		L	18	14	42.0						
		F	18	15	41						
65	Mar. 3	P	2	41	28.2					62	
		L	2	41	36.5						
		MN	2	41	41.0						
		ME	2	41	42.1						
		FE	2	43	01						
		FN	2	43	10						
66	Mar. 4	P	12	15	33.8					154	
		LN	12	15	54.6						
		FN	12	18	45						
67	Mar. 6	P	3	52	38.1					37	
		LN	3	52	43.1						
		FN	3	53	58						
68	Mar. 6	P	8	53	34.6					114	
		L	8	53	50.0						
		F	—	—	—						
69	Mar. 7	P	10	42	01.3					4317	
		S	10	48	02.8						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Mar. 9 to Mar. 14 1929 No. 9

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
		L	10	51	11.0						
		ME	10	52	14.0	15.6	+625				
		MN	10	53	17.0	12.0		+119			
		FN	13	22	±						
		FE	14	03	±						
70	Mar. 9	P	11	14	34.2				1734		
		L	11	17	09.2						
		FN	11	37	±						
		FE	12	03	±						
71	Mar. 10	P	22	38	42.2						
		F									
72	Mar. 10	P	22	41	39.3				48		
		LN	22	41	45.7			-7			
		F	22	42	39						
73	Mar. 10	P	22	47	51.8				41		
		LN	22	47	57.3			-12			
		F	22	48	52						
74	Mar. 10	P	23	41	35.6				140		
		L	23	41	54.5						
		MN	23	42	01.2			-19			
		FN	23	47	03						
75	Mar. 13	P	17	07	28.6				79		
		L	17	07	39.2						
		FN	17	08	26						
76	Mar. 13	P	23	04	03.3						
		F									
77	Mar. 14	P	15	18	22.5				91		
		L	15	18	34.7						
		ME	15	18	36.7		± 13				
		MN	15	18	51.1			+12			
		FE	15	19	51						
		FN	15	19	56						
78	Mar. 14	P	23	16	43.9				638		
		L	23	18	09.9						
		MN	23	18	27.3			+17			
		FN	23	21	50						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Mar. 15 to Mar. 20 1929 No. 10

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
79	Mar. 15	P	10	57	59.3				490		
		L	10	59	05.3						
		M <sub>N</sub>	11	00	00.5		+26				
		F <sub>N</sub>	11	05	09						
80	Mar. 17	P	6	07	03.0				41		
		L <sub>E</sub>	6	07	08.5	-20					
		M <sub>N</sub>	6	07	09.5		-52				
		F <sub>E</sub>	6	08	03						
		F <sub>N</sub>	6	08	20						
81	Mar. 19	P	8	22	01.7				527		
		L	8	23	12.7						
		M <sub>N</sub>	8	23	29.2		±90				
		M <sub>E</sub>	8	23	46.4	+154					
		F <sub>E</sub>	8	32	09						
		F <sub>N</sub>	8	32	39						
82	Mar. 19	P	23	17	53.0				59		
		L	23	18	00.9						
		F									
83	Mar. 20	P	0	02	33.7				54		
		L <sub>N</sub>	0	02	41.0		+10				
		F <sub>N</sub>	0	03	43						
84	Mar. 20	P	0	26	48.2				53		
		L	0	26	55.4						
		F									
85	Mar. 20	P	10	32	21.5				56		
		L	10	32	29.0						
		F									
86	Mar. 20	P	10	57	32.3				56		
		L	10	57	39.8						
		F									
87	Mar. 20	P	12	18	58.6				48		
		L	12	19	05.0						
		F									
88	Mar. 20	P	12	26	29.8				53		
		L	12	26	37.0						
		F									





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Mar. 20 to Mar. 27 1929 No. 11

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
89	Mar. 20	P	17	22	29.9				53		
		L	17	22	37.1						
		F			—						
90	Mar. 20	P	21	00	19.0				31	Off the cape Inubō. Felt slightly.	
		L	21	00	23.2	+61	-82				
		F	21	01	33						
91	Mar. 26	P	12	36	26.5				94		
		L	12	36	39.1						
		F			—						
92	Mar. 27	P	7	55	53.1				54		
		L	7	56	00.4						
		F			—						
93	Mar. 27	P	8	37	40.7				501		
		L	8	38	48.2						
		MN	8	39	16.0		+18				
		F	8	43	04						
94	Mar. 27	P	12	03	35.5				27		
		L	12	06	39.1						
		F			—						
95	Mar. 27	P	14	03	18.3				501		
		L	14	04	25.8						
		MN	14	04	47.8		-13				
		FN	14	08	44						
96	Mar. 27	P	14	11	43.6				383		
		L	14	12	35.2						
		F			—						
97	Mar. 27	P	20	37	30.5				54		
		L	20	37	37.8						
		ME	20	37	46.9	+30					
		MN	20	37	53.2		-43				
		FN	20	39	39						
		FE	20	39	56						
98	Mar. 27	P	22	00	10.7				53		
		L	22	00	17.8						
		MN	22	00	19.0		+14				
		F			—						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Mar. 27 to Mar. 28 1929 No. 12

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
99	Mar. 27	P	22	37	59.0				25		
		L	22	38	02.4						
		F	—								
100	Mar. 28	P	0	48	08.4				56		
		L	0	48	15.9	-50	+46				
		F	0	50	13						
101	Mar. 28	P	1	32	31.6				84	Off Katura. Felt slightly.	
		L	1	32	42.9						
		MN	1	32	47.7	2.9	+144				
		ME	1	32	52.5	2.9	+260				
		F	1	37	58						
102	Mar. 28	P	3	46	11.8				53		
		L	3	46	19.0						
		ME	3	46	28.6		+24				
		FE	3	47	47						
		FN	3	47	57						
103	Mar. 28	P	6	19	27.2				49	Off the coast of Kujūkurihama. Felt slightly.	
		L	6	19	33.8	-65	+88				
		FE	6	20	52						
		FN	6	20	56						
104	Mar. 28	P	6	39	30.9		-4	-3	47		
		LE	6	39	37.2	-63					
		MN	6	39	38.7		+117				
		F	6	42	26						
105	Mar. 28	P	10	18	10.7				45	Off the coast of Kujūkurihama. Felt slightly.	
		L	10	18	16.8		+60				
		FE	10	19	34						
		FN	10	19	49						
106	Mar. 28	P	10	47	33.4				39		
		L	10	47	38.7						
		F	—								
107	Mar. 28	P	11	20	40.6				45		
		L	11	20	46.6	-30	+45				
		FN	11	21	35						
		FE	11	21	41						
108	Mar. 28	P	12	37	03.1				36		





# TYOSI, JAPAN.

## SEISMIC BULLETIN



International  
Seismological  
Centre

From Mar. 28 to Mar. 31 1929 No. 13

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks		
			h.	m.	s.		AE μ	AN μ	AZ μ				
109	Mar. 28	L	12	37	08.0		-10	+ 12		56			
		F	—										
		P	17	31	56.0								
		LE	17	32	02.8		-18						
		LN	17	32	03.5								
		MN	17	32	04.5		+27						
110	Mar. 29	FE	17	33	21								
		FN	17	33	24								
		P	4	30	19.1					52			
L	4	30	26.1										
F	—												
111	Mar. 29	P	6	32	49.2					31			
		L	6	32	53.4							-17	+20
		F	—										
112	Mar. 31	P	21	46	41.0					43			
		LE	21	46	46.8							-16	
		MN	21	46	47.8							+10	
		F	21	47	41								





# TYOSI, JAPAN.



## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY

$\varphi = 35^{\circ}44'N$   $\lambda = 140^{\circ}52'E$   $h = 18.2m$  Lithologic foundation : Loam (Tertiary)

### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS kg	DAMPING	$T_0$	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	N—S	200	Air				85
	E—W	200	"				85
Wiechert	U—D	80	"				74
Omori	N—S	14.5	Magnetic	20	0.003	2—4	20
Omori	E—W	15	"	20	0.004	2—4	20
Omori	N—S	46.1		18	—		120
Omori	N—S	20		4	0.065		50
	E—W	20		4	0.065		50
C. M. O.	N—S	2.3	Magnetic	3.5	0.004	2—3	2
	E—W	2.3	"	3.5	0.004	2—3	2
	U—D	2.3	"	5.0	0.003	2—3	3
Omori	U—D	6.1		5	—		20

From Apr. 1 to Apr. 16 1929 No. 14

No.	Date	Phase	Time 135° E			Period s.	Amplitude			$\Delta$ km.	Remarks
			h.	m.	s.		$A_E$ $\mu$	$A_N$ $\mu$	$A_Z$ $\mu$		
113	Apr. 1	P	5	18	19.4		+ 338		445		
		L	5	19	19.4						
		$M_E$	5	21	40.3						
		$F_E$	6	02	26						
114	Apr. 3	$eP$	2	57	45.8				167		
		$eL$	2	58	08.2						
		F									
115	Apr. 7	P	3	06	10.3		+ 27		105		
		L	3	06	24.4						
		$M_E$	3	06	36.2						
		$F_N$	3	08	40						
		$F_E$	3	09	14						
116	Apr. 10	P	15	06	36.7						
		F									
117	Apr. 11	P	14	48	25.7				200		
		L	14	48	52.6						
		F									
118	Apr. 12	P	16	42	24.2				62		
		L	16	42	32.6						
		F									
119	Apr. 14	P	21	14	46.1		- 18	+ 14	108		
		L	21	15	00.6						
		$M_E$	21	15	03.4						
		$M_N$	21	15	08.8						
		$F_E$	21	16	36						
		$F_N$	21	16	38						
120	Apr. 16	P	9	53	12.1		- 6	+ 6	- 5	70	Kasimanada.





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Apr. 18 to Apr. 30 1929 No. 15

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
121	Apr. 18	L	9	53	21.5		-990	+900	+235	87	Felt rather strongly.
		MEZ	9	53	27.6						
		MN	9	53	52.1						
		FZ	9	59	27						
		FEN	10	01	27						
		P	3	34	25.7						
121	Apr. 18	L	3	34	37.4	0.4	+325	-210		87	Felt moderately.
		ME	3	34	40.0						
		MN	3	34	49.1						
		FZ	3	42	14						
		FE	3	43	14						
		P	12	40	13.2						
122	Apr. 21	L	12	40	23.5	0.4	+60	+92		76	
		MEN	12	40	24.7						
		F	12	41	26						
		P	13	31	43.5						
123	Apr. 21	eS	13	31	48.9					40	
		F	13	32	00						
		eP	19	05	56.3						
124	Apr. 22	F	19	06	11						
		eP	19	16	51.8						
125	Apr. 22	F	19	17	04						
		eP	19	17	11.1						
126	Apr. 22	F	19	17	21						
		eP	19	17	31.1						
127	Apr. 22	eL	19	17	34.2					23	
		F	19	17	54						
		eP	23	16	13.6						
128	Apr. 23	eL	23	16	21.8	2.4	±254	-150		61	Middle course of the kokai river. Felt slightly.
		ME	23	16	42.6						
		MN	23	16	44.0						
		F	23	21	48						
		eP	17	46	39.7						
129	Apr. 26	eL	17	46	43.6					29	
		F	17	47	09						
		eP	3	56	59.3						
130	Apr. 30	L	3	56	50.0					79	Time is uncertain.
		F	3	58	41						
		eP	3	56	59.3						





# TYOSI, JAPAN.



## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY

$\varphi = 35^{\circ}44' N$      $\lambda = 140^{\circ}52' E$      $h = 18.2m$     Lithologic foundation : Loam (Tertiary)

### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS <sub>kg</sub>	DAMPING	T <sub>0</sub>	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	N — S	200	Air				85
	E — W	200	"				85
Wiechert	U — D	80	"				74
Omori	N — S	14.5	Magnetic	20	0.003	2—4	20
Omori	E — W	15	"	20	0.004	2—4	20
Omori	N — S	46.1		18	—		120
Omori	N — S	20		4	0.035		50
	E — W	20		4	0.065		50
C. M. O.	N — S	2.3	Magnetic	3.5	0.004	2—3	2
	E — W	2.3	"	3.5	0.004	2—3	2
	U — D	2.3	"	5.0	0.003	2—3	3
Omori	U — D	6.1		5	—		20

From            May. 2            to            May. 4            1929            No. 16

No.	Date	Phase	Time 135° E			Period	Amplitude			$\Delta$	Remarks	
			h.	m.	s.		s.	AE	AN			AZ
									km.			
131	May. 2	eE	0	59	20.7	6.2	-	45			Time is uncertain.	
		eLE	1	10	56.7	13.6	+	70				
		ME	1	17	08.6	17.2	±	463				
		FE	2	24	19							
132	May. 2	eP	23	28	50.5							
		F	23	32	58							
133	May. 3	eP	14	35	25.8							
		F	14	36	30							
134	May. 3	eP	18	09	15.1				23			
		eL	18	09	18.2							
		F	18	09	42							
135	May. 4	eP	5	01	21.2				23			
		eL	5	01	24.3							
		MEN	5	01	28.0	0.2	±	36	±	80		
		F	5	02	44							
136	May. 4	eP	14	48	22.1				35			
		eL	14	48	26.7							
		F	14	49	31							
137	May. 4	eP	18	21	53.9				27			
		eL	18	21	57.6							
		F	18	22	20							
138	May. 4	eP	18	28	43.6				27			
		eL	18	28	47.3							





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From May. 4 to May. 11 1929 No. 17

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ k m.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
		F	18	29	09						
139	May. 4	eP	18	43	50.4						
		F	18	44	04						
140	May. 4	eP	21	00	12.5				30		
		eL	21	00	16.5						
		F	21	00	41						
141	May. 4	eP	22	30	33.1						
		F	22	31	21						
142	May. 4	eP	22	56	59.8						
		F	22	57	11						
143	May. 5	eP	9	53	53.5						
		F	9	54	39						
144	May. 5	eP	22	18	54.9				30		
		eL	22	18	58.9						
		F	22	19	39						
145	May. 6	eP	4	31	28.9				25		
		eL	4	31	32.3						
		F	4	32	47						
146	May. 7	eP	11	49	59.0				45		
		eL	11	50	05.0						
		F	11	50	42						
147	May. 7	eP	12	50	12.3						
		F	12	50	34						
148	May. 7	eP	15	39	09.9				37		
		eL	15	39	14.9						
		MN	15	39	16.9	0.7		±74			
		ME	15	39	25.5	0.5	±42				
		F	15	40	59						
149	May. 8	eP	6	18	29.1				85		
		eL	6	18	40.6						
		MN	6	18	51.1	0.5		±44			
		ME	6	18	55.7	0.8	±100				
		F	6	22	18						
150	May. 11	eP	23	19	39.8				24		





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From May. 13 to May. 27 1929 No. 18

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
151	May. 13	eL	23	19	43.0				80		
		F	23	20	08						
		eP	19	39	12.2						
152	May. 13	L	19	39	23.0						
		F	19	39	56						
		eP	22	10	22.3						
153	May. 15	F	22	10	39						
		eP	01	30	53.7						
154	May. 16	F	01	32	37	0.1	±510	±800	46		
		eP	7	20	41.0						
		eL	7	20	47.2						
		F	7	21	54						
155	May. 17	MEN	7	20	47.8						
		F	7	21	54						
156	May. 17	eP	19	47	19.5				16		
		F	19	47	38						
		eP	19	49	59.8						
157	May. 20	eL	19	50	02.0						
		F	19	50	49						
		eP	23	38	07.5						
158	May. 22	F	23	38	30				766		
		eP	01	37	39.3						
		eS	01	39	22.5						
		L	01	39	59.3						
159	May. 23	F	03	10	±						
		eP	11	46	19.9						
160	May. 24	F	11	46	52						
		eP	0	37	28.8						
161	May. 25	F	0	38	14						
		eP	12	32	22.3						
162	May. 25	F	12	32	35						
		eP	21	42	41.1						
163	May. 27	F	21	43	13						
		e <sub>1</sub>	7	59	26.6						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From May. 28

to

May. 31

1929

No. 19

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
		e <sub>2</sub>	8	06	19.6						
		e <sub>3</sub>	8	19	51.4	12.3	± 200				
		e <sub>4</sub>	8	21	47.2						
		e <sub>5</sub>	8	24	13.9						
		F	9	43	±						
164	May. 28	eP	15	45	24.9					27	
		eL	15	45	28.6						
		MEN	15	45	30.5	0.7	± 30	± 18			
		F	15	47	18						
165	May. 30	eP	23	33	26.5						
		F	23	35	01						
166	May. 31	eP	9	11	45.6					483	
		e	9	12	09.1						
		S	9	12	50.7						
		L	9	13	10.0						
		MN <sub>1</sub>	9	13	42.6	2.7		± 39			
		MN <sub>2</sub>	9	13	52.7	2.7		± 36			
		ME <sub>1</sub>	9	14	06.9	2.7	± 44				
		ME <sub>2</sub>	9	14	57.6	5.3	± 45				
		ME <sub>3</sub>	9	15	28.2	5.7	± 48				
		F	9	31	38						





# TYOSI, JAPAN.

## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY

$\varphi = 35^{\circ}44'N$   $\lambda = 140^{\circ}52'E$   $h = 18.2m$  Lithologic foundation : Loam (Tertiary)

### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS <sub>kg</sub>	DAMPING	$T_0$	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	N—S	200	Air	4.6	0.025	2	76
	E—W	200	"	6.5	0.002	3	97
Wiechert	U—D	80	"				74
Omori	N—S	14.5	Magnetic	20	0.003	2—4	20
Omori	E—W	15	"	20	0.004	2—4	20
Omori	N—S	46.1		18	—		120
Omori	N—S	20		4	0.065		50
	E—W	20		4	0.065		50
C. M. O.	N—S	2.3	Magnetic	3.5	0.004	2—3	2
	E—W	2.3	"	3.5	0.004	2—3	2
	U—D	2.3	"	5.0	0.003	2—3	3
Omori	U—D	6.1		5	—		20

From June 3 to June 9 1929 No. 20

No.	Date	Phase	Time 135° E			Period s.	Amplitude			$\Delta$ km.	Remarks
			h.	m.	s.		AE $\mu$	AN $\mu$	AZ $\mu$		
167	June 3	P	6	39	38.6	0.4	- 50	- 21	- 53	348	Felt rather strongly. Neighbourhood of mouth of Bay Ise.
		LE	6	40	20.4	0.2	+ 70				
		LN	6	40	25.6	0.2		- 94			
		MN	6	40	28.4	0.2		$\pm 1100$			
		ME1	6	40	30.4	0.2	+ 760				
		ME2	6	40	33.2	0.2	- 770				
		F	7	01	$\pm$						
168	June 4	e	12	39	50.6						
		F	12	40	47						
169	June 5	eP	10	00	11.7				79		
		eL	10	00	22.3						
		F	10	01	25						
170	June 5	eP	19	51	49.3						
		F	19	52	21						
171	June 8	eP	9	40	55.4				140		
		eL	9	41	14.3						
		F	9	42	30						
172	June 8	eP	11	54	56.4				53		
		eL	11	55	03.5						
		F	11	56	46						
173	June 8	eP	14	07	10.3				28		
		eL	14	07	14.1						
		F	14	07	39						
174	June 9	eP	18	11	21.5				1130		





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From June 13 to June 14 1929 No. 21

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
175	June 13	SE	18	13	22.5	0.9	+ 2			1040	
		LE	18	15	59.1	5.5	+ 3				
		ME1	18	17	33.9	12.1	± 57				
		ME2	18	19	59.6	10.9	± 53				
		F	19	43	43						
		ePE1	9	15	42.3						
		eSE	9	17	34.3						
		LE1	9	18	08.8	2.3	- 42				
		ME1	9	23	45.3	14.0	± 167				
		ME2	9	25	16.0	12.6	± 137				
ePE2	9	31	01.8								
LE2	9	34	09.2	2.3	+ 19						
ME3	9	37	15.2	12.8	± 218						
FE	11	15	±								
176	June 13	eP	17	02	18.3				519		
		eL	17	03	28.2						
		F	17	04	39						
177	June 13	eE	18	31	01.4						
		SE	18	32	01.4						
		LE	18	37	38.4						
		ME	18	40	09.5						
		CE	18	55	51.0						
		FF	20	08	±						
178	June 13	eP	19	34	24.8						
		F	19	34	59.4						
179	June 14	ePE	5	23	38.6				127	Felt slightly. ENE off the cape of Siويا.	
		LE	5	23	55.7	1.9	- 68				
		ME	5	24	11.9	0.8	± 250				
		FE	5	36	27						
180	June 14	e	8	13	09.5						
		F	8	39	32						
181	June 14	eP	8	43	54.0				91		
		eL	8	44	06.3						
		F	8	45	41						
182	June 14	eP	14	30	48.9				37		
		eL	14	30	53.9						
		F	14	31	41						



# TYOSI, JAPAN.

## SEISMIC BULLETIN



International  
Seismological  
Centre

From June 14 to June 20 1929 No. 22

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
183	June 14	eP	15	34	04.1				35		
		eL	15	34	08.8						
		F	15	34	31						
184	June 15	e	4	36	07.9						
		F	4	36	36						
185	June 15	eP	8	10	40.7				132		
		eL	8	10	58.7						
		F	8	12	46						
186	June 17	eP	8	00	10.0				9110		
		e <sub>1</sub>	8	06	02.6						
		eS	8	10	26.3						
		eL	8	15	56.6						
		e <sub>2</sub>	8	21	51.2						
		F	10	44	±						
187	June 17	e	19	28	29.6						
		F	20	04	33						
188	June 17	eP	21	00	23.3				79		
		eL	21	00	33.9						
		F	21	01	42						
189	June 17	eP	22	34	03.1				145		
		S	22	34	12.5						
		LE	22	34	22.6	0.8	—	6			
		F	22	35	54						
190	June 19	e	16	43	43.8						
		F	17	09	43						
191	June 20	e	19	08	28.4						
		F	19	09	12						
192	June 20	eP	20	10	22.7				41		
		L	20	10	28.2						
		F	20	10	56						
193	June 20	eP	20	12	37.6				59		
		S	20	12	42.3						
		L	20	12	45.6						
		F	20	13	50						
194	June 20	eP	22	25	22.3				24		





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From June 22 to June 27 1929 No. 23

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
		eL	22	25	25.5						
		F	22	26	00						
195	June 22	eP	9	34	45.6						
		F	9	34	56						
196	June 24	eP	7	05	17.0				13		
		eL	7	05	18.7						
		F	7	05	37						
197	June 24	eP	11	04	53.6				125		
		P̄	11	05	00.2						
		L	11	05	10.4						
		ME	11	05	23.6	1.4	± 158				Felt slightly. ENE off the cape of Sioya.
		F	11	20	14						
198	June 25	eP	11	34	32.6				61		
		eL	11	34	40.8						
		F	11	36	15						
199	June 27	P̄	1	49	24.7	1.0	- 17	- 23	+ 38	49	
		L	1	49	31.3	0.8	- 725	+ 363			Felt rather strongly. NE off the cape Inubō.
		M	1	49	33.4	0.8	± 1600	± 1100			
		F	2	14	±						
200	June 27	eP	2	22	10.8				53		
		L	2	22	18.0						
		F	2	22	53						
201	June 27	L	3	17	16.4						
		F	3	17	58						
202	June 27	eP	3	25	55.9				52		
		L	3	26	02.9						
		F	3	26	26						
203	June 27	eP	3	40	39.4				47		
		L	3	40	45.7						
		F	3	41	35						
204	June 27	L	8	26	00.0						
		F	8	26	44						
205	June 27	eP	12	23	15.5				21		
		L	12	23	18.3						
		F	12	23	43						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From June 27 to June 30 1929 No. 24

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
206	June 27	L	21	41	32.3				3055		
		F	21	42	53						
207	June 27	eP	22	07	09.8				3055		
		iPE	22	07	14.6	4.1	+ 4				
		iPN	22	07	14.6	2.8		- 2			
		iPZ	22	07	14.6	4.6					- 5
		PEE	22	07	48.2	5.7	- 12				
		PPN	22	07	48.2	3.4		+ 5			
		PPPE	22	08	02.6	4.4	- 12				
		PPPN	22	08	02.6	3.6		- 4			
		SE	22	11	57.0	6.9	+ 8				
		SN	22	11	57.0	6.1		- 6			
		eN1	22	12	40.3	4.1		+ 3			
		e2	22	14	13.3	5.3	+ 8	+ 3			
		LE	22	20	04.3	9.3	+ 15				
		eE3	22	25	39.0	13.7	+ 37				
		eE4	23	12	20.6	23.9	+ 72				
		eE5	23	17	13.5	19.7	±100				
		eE6	23	32	14.4	19.1	± 77				
eE7	23	45	13.8	17.6	± 61						
FE	24	11	±								
208	June 28	eP	2	36	01.3				49		
		L	2	36	07.9						
		F	2	36	59						
209	June 28	eP	5	50	21.8				57		
		L	5	50	29.5						
		F	5	54	04						
210	June 28	L	13	17	07.3						
		F	13	17	39						
211	June 28	e	18	17	17.1						
		F	18	17	43						
212	June 29	eP	15	28	40.3				54		
		L	15	28	47.6						
		F	15	30	12						
213	June 29	eP	20	57	51.7				36		
		L	20	57	56.6						
		F	20	58	51						
214	June 30	e	1	52	15.9						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From June 30 to June 30 1929 No. 25

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
215	June 30	F	1	53	20				2850		
		eP	11	52	00.4						
		e <sub>1</sub>	11	52	32.6						
		eS	11	56	32.7						
		e <sub>2</sub>	12	02	25.8						
		eL	12	05	12.4						
216	June 30	F	12	57	±						
		L	12	07	35.0						
217	June 30	F	12	08	02				55		
		eP	12	40	41.5						
		L	12	40	48.9	1.3	- 12	- 11			
		F	12	43	39						



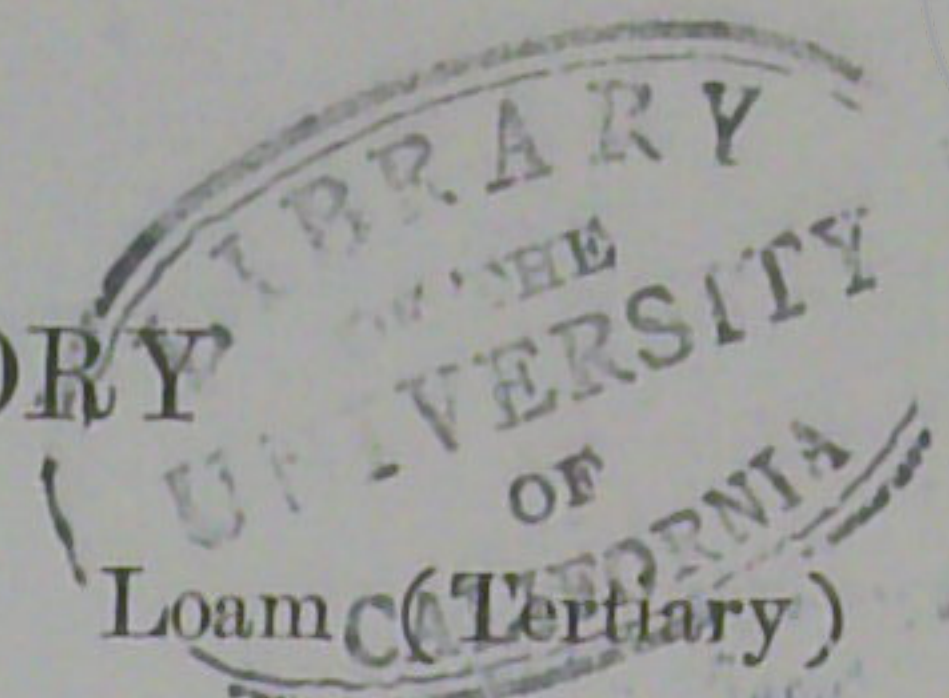


# TYOSI, JAPAN.

## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY

$\varphi = 35^{\circ}44' N$   $\lambda = 140^{\circ}52' E$   $h = 18.2m$  Lithologic foundation : Loam (Tertiary)

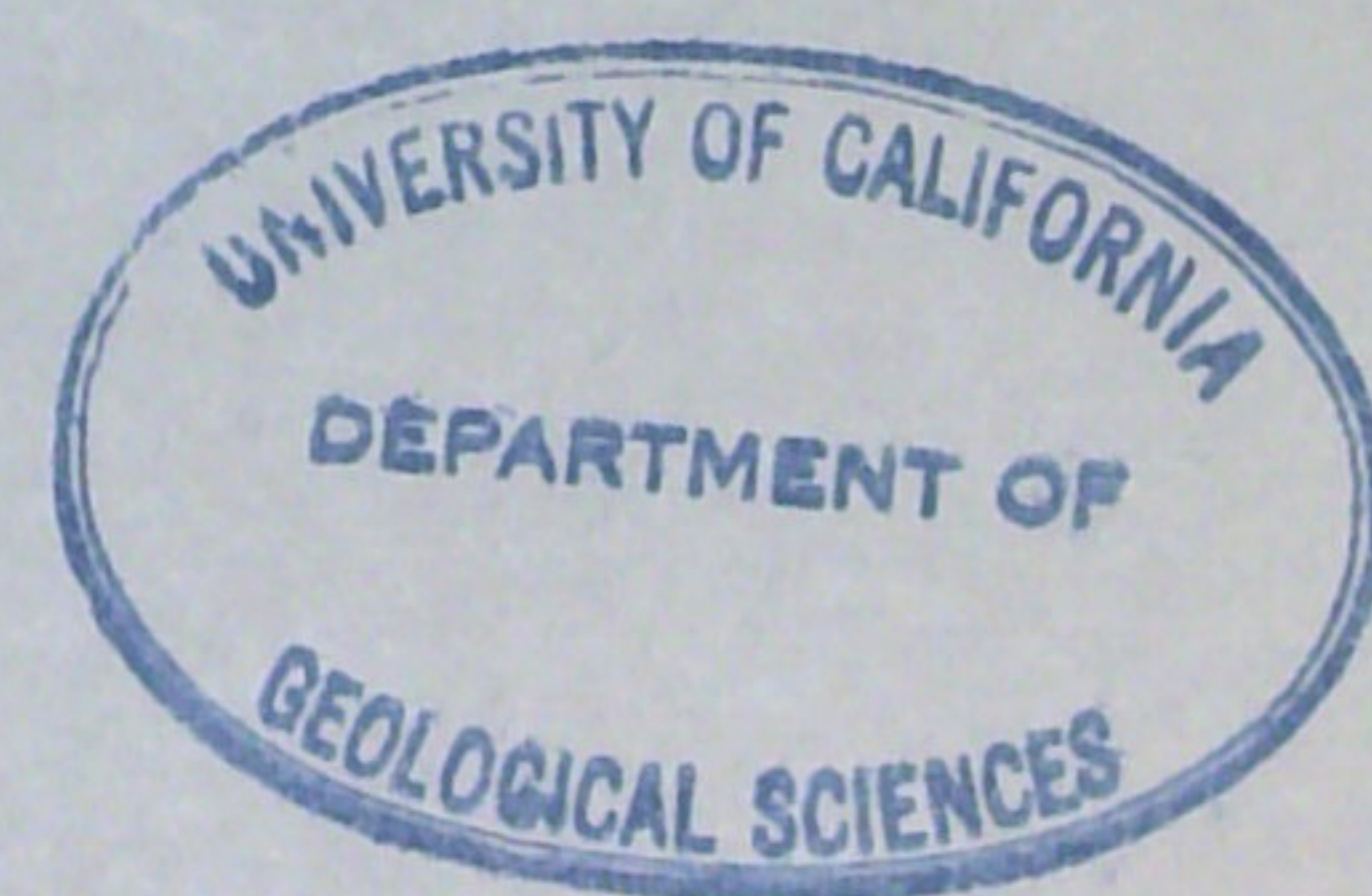


### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS <sub>kg</sub>	DAMPING	$T_0$	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	N—S	200	Air	4.6	0.025	2	76
	E—W	200	"	6.5	0.002	3	97
Wiechert	U—D	80	"	4.8			36 <i>72</i>
Omori	N—S	14.5	Magnetic	20	0.003	2—4	20
Omori	E—W	15	"	20	0.004	2—4	20
Omori	N—S	46.1		18	—		120
Omori	N—S	20		4	0.065		50
	E—W	20		4	0.065		50
C. M. O.	N—S	2.3	Magnetic	3.5	0.004	2—3	2
	E—W	2.3	"	3.5	0.004	2—3	2
	U—D	2.3	"	5.0	0.003	2—3	3
Omori	U—D	6.1		5	—		20

From July 1 to July 6 1929 No. 26

No.	Date	Phase	Time 135° E			Period	Amplitude			$\Delta$ km.	Remarks
			h.	m.	s.		AE $\mu$	AN $\mu$	AZ $\mu$		
218	July 1	eP	16	55	26.7				83		
		L	16	55	37.9						
		F	16	56	19						
219	July 2	P	15	22	53.1						
		F	15	23	20						
220	July 2	P	20	57	45.8				50		
		L	20	57	52.6	0.4	— 6	— 6			
		F	20	59	17						
221	July 4	ePE	5	03	57.8				506		
		eSE	5	04	28.7						
		LE	5	05	08.1	3.1	— 5				
		FE	5	06	15						
222	July 5	eP	14	08	55.2				25		
		eL	14	08	58.6						
		F	14	09	24						
223	July 5	L	14	09	49.2						
		F	14	11	01						
224	July 5	ePE	23	25	43.6				3506		
		eSE	23	31	01.0						
		eLE	23	37	07.1						
		FE	1	14	±						
225	July 6	eP	7	44	08.6				2642		
		eS	7	48	24.6						
		eL	7	55	00.6						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From July 6 to July 13 1929 No. 27

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
226	July 6	F	9	13	±				3119		
		eP	11	16	23.2						
		eS	11	21	14.8						
		eL	11	25	25.4						
227	July 7	F	12	24	±						
		e	3	11	16.2						
228	July 7	F	3	11	37				30		
		eP	22	45	59.7						
229	July 8	L	22	46	03.8				3461		
		F	22	46	58						
		P	6	29	54.9	14.5	±223				
S	6	35	09.0								
L	6	37	25.6								
230	July 8	ME	6	40	08.4						
		FE	9	24	±						
231	July 9	e	21	41	42.4				53		
		F	21	42	26						
232	July 11	e	0	35	02.7				44		
		L	0	35	09.9						
		F	0	35	40						
233	July 12	e	17	16	05.4				73		
		F	17	16	57						
234	July 12	e	5	40	44.3				53		
		F	5	41	42						
		P	12	46	06.3						
235	July 13	L	12	46	12.3				4400		
		F	12	47	17						
		eP	16	15	53.3						
236	July 13	eL	16	16	03.2				53		
		F	16	17	17						
		eP	23	34	44.6						
237	July 13	L	23	34	51.7				4400		
		F	23	36	12						
		eP	23	58	29.4						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



International  
Seismological  
Centre

From July 14 to July 18 1929 No. 28

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks				
			h.	m.	s.		AE μ	AN μ	AZ μ						
238	July 14	eL	0	07	53.7					1711					
		F	0	18	±										
		P	18	41	00.4										
		eE	18	43	32.3	0.7	+ 2								
		SE	18	43	57.5	6.4	+ 15								
		SN	18	43	57.5	4.2		- 15							
		LE	18	48	31.7	10.0	+ 16								
239	July 14	ME	18	52	15.6	11.0	± 30			46					
		FE	20	31	±										
		eP	19	39	09.3										
		L	19	39	15.5										
		F	19	40	11										
		240	July 15	eP	17	05	34.9							93	
				e <sub>1</sub>	17	05	44.1								
eL	17			05	47.4										
F	17			12	±										
241	July 15	eP	18	49	44.0										
		F	18	50	48										
242	July 16	PEN	7	45	44.4	0.5	- 16	+ 45		36	Felt moderately. Off the cape of Inubō.				
		PZ	7	45	44.4	0.4			+ 65						
		L	7	45	49.3	1.1	+ 235	- 370							
		F	8	01	±										
243	July 17	eP	17	49	25					3840	Time is uncertain.				
		eS	17	56	03										
		eL	17	59	17										
		F	19	01	±										
244	July 17	PEN	19	49	39.1	0.5	+ 5	- 4		83	Felt slightly. Valley of River Kinu.				
		PZ	19	49	39.1	0.2			+ 4						
		SEN	19	49	50.3	0.3	- 72	- 91							
		L	19	50	02.8										
		F	20	00	±										
245	July 18	eP	7	07	50.5					280					
		S	7	08	01.0										
		eL	7	08	28.2										
		F	7	13	±										
246	July 18	eP	7	12	25.5					379					
		S	7	12	56.9										





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From *July* ~~June~~ 19 to *July* ~~June~~ 29 1929 No. 29

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
247	July 19	eL	7	13	16.5				71		
		F	7	19	±						
		P	0	53	14.8						
248	July 19	L	0	53	26.7				22		
		F	0	54	43						
		eP	11	10	50.3						
249	July 22	L	11	10	53.2				31		
		F	11	11	39						
		eP	10	42	22.7						
250	July 24	L	10	42	26.9						
		F	10	42	58						
		e <sub>1</sub>	20	22	43.9						
251	July 25	e <sub>2</sub>	20	22	53.0				165		
		F	20	23	32						
		eP	16	05	56.4						
252	July 26	eL	16	06	18.6				24		
		F	16	07	32						
		P	5	55	44.0						
253	July 27	L	5	55	47.3				150	Felt slightly. Neighbourhood of Mt. Tanzawa.	
		F	5	56	37						
		Pz	7	48	39.8	1.4		- 14			
		PEN	7	48	41.5	0.3	- 2	- 2			
		SEN	7	48	48.4	0.7	- 48	+ 96			
		Lz	7	49	00.2	2.3		- 350			
		LN	7	49	00.6	0.7		- 684			
		LE	7	49	01.9	0.7	- 725				
		ME	7	49	06.5	1.6	±3150				
		MN	7	49	11.2	1.1		±1850			
		Mz1	7	49	11.8	2.9		± 463			
Mz2	7	49	45.9	2.9		± 350					
254	July 28	F	8	12	±						
		e	2	47	15.2						
255	July 29	F	2	47	35				104		
		ePE	2	15	07.9						
		SE	2	15	15.7						
		LE	2	15	22.0						
		FE	2	16	08						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From July 31 to July 31 1929 No. 30

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
256	July 31	eP	10	05	37.6				22		
		eL	10	05	40.5						
		F	10	06	10						





# TYOSI, JAPAN.

## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY

$\varphi = 35^{\circ}44'N$   $\lambda = 140^{\circ}52'E$   $h = 18.2m$  Lithologic foundation : Loam (Tertiary)



### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS <sub>kg</sub>	DAMPING	T <sub>0</sub>	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	N—S	200.	Air	3.7	0.020	4	76
	E—W	200	"	6.3	0.004	7	97
Wiechert	U—D	80	"	3.5	0.020	6	72
Omori	N—S	14.5	Magnetic	20	0.003	2—4	20
Omori	E—W	15	"	20	0.004	2—4	20
Omori	N—S	46.1		18	—		120
Omori	N—S	20		4	0.065		50
	E—W	20		4	0.065		50
C. M. O.	N—S	2.3	Magnetic	3.5	0.004	2—3	2
	E—W	2.3	"	3.5	0.004	2—3	2
	U—D	2.3	"	5.0	0.003	2—3	3
Omori	U—D	6.1		5	—		20

From Aug. 1 to Aug. 8 1929 No. 31

No.	Date	Phase	Time 135° E			Period	Amplitude			$\Delta$	Remarks
			h.	m.	s.		AE	AN	AZ		
						$\mu$	$\mu$	$\mu$	km.		
257	Aug. 1	e	10	59	27.2						
		F	11	00	48						
258	Aug. 1	eP	15	00	01.9				552		
		eS	15	00	40.7						
		eL	15	01	16.4						
		F	15	03	±						
259	Aug. 1	eP	21	21	08.6				84		
		eL	21	21	19.9						
		F	21	22	10						
260	Aug. 3	eP	1	07	47.9				22		
		L	1	07	50.8						
		F	1	08	05						
261	Aug. 3	eP	19	00	10.3				76		
		eL	19	00	20.6						
		F	19	00	54						
262	Aug. 6	PE	12	06	35.6				56		
		iLEN	12	06	43.2	0.9	-34	+24			
		FE	12	09	53						
263	Aug. 6	e	18	27	25.4						
		F	18	28	49						
264	Aug. 8	e	13	49	32.7						
		F	13	50	52						
265	Aug. 8	eE	22	05	05						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Aug. 10 to Aug. 20 1929 No. 32

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
266	Aug. 10	eL	22	20	38						
		F	22	47	±						
		eP	5	22	44.0						
267	Aug. 11	F	5	25	±						
		eP	0	51	27						
268	Aug. 13	F	0	51	54						
		eP	23	30	16.7				109		
269	Aug. 15	eS	23	30	25.3						
		eL	23	30	31.4						
		F	23	30	59						
		eP	16	41	36.4				70		
270	Aug. 15	L	16	41	45.9						
		F	16	42	44						
		P	19	13	23.7				48		
271	Aug. 16	L	19	13	30.2						
		F	19	14	14						
		PZ	22	21	50.3	0.6		+50	116		
		PEN	22	21	51.5	0.7	+ 9	- 10			
272	Aug. 16	LEN	22	22	07.2	1.2	+130	-154			
		FE	22	28	±						
		P	23	57	59.3				92		
		L	23	58	11.7						
273	Aug. 19	F	23	59	31						
		eP	11	47	42.9				2070		
		eS	11	51	12.0						
		eL	11	56	19.4						
274	Aug. 20	F	12	15	±						
		eP	0	41	05.2				85		
		L	0	41	16.6						
275	Aug. 20	F	0	42	20						
		eP	1	18	57.1				67		
		L	1	19	06.2						
276	Aug. 20	F	1	20	30						
		eP	2	25	22.8				51		





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Aug. 22 to Aug. 27 1929 No. 33

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
		L	2	25	29.7						
		F	2	27	09						
277	Aug. 22	e	12	50	20.6						
		F	12	50	52						
278	Aug. 23	eP	10	31	41.7				22		
		L	10	31	44.7						
		F	10	31	55						
279	Aug. 25	P	20	02	37.6				31		
		L	20	02	41.8						
		F	20	03	14						
280	Aug. 26	e	0	30	46.6						
		L	0	31	01.7						
		F	0	34	±						
281	Aug. 26	eL	0	35	09.1						
		F	0	35	17						
282	Aug. 26	eP	4	12	43.8				23		
		eL	4	12	46.9						
		F	4	13	55						
283	Aug. 26	ePz	8	59	11.2				33		
		ePEN	8	59	12.4						
		eLz	8	59	15.5						
		iLEN	8	59	16.8						
		F	8	59	53						
284	Aug. 26	e	11	02	42.1				87		
		eL	11	02	53.8						
		F	11	03	46						
285	Aug. 27	ePz	10	51	51.7				77		
		ePE	10	51	53.5						
		LE	10	52	03.9						
		eLz	10	52	05.0						
		Fz	10	53	47						
		FE	10	55	16						
286	Aug. 27	ePz	12	15	31.5				156		
		ePE	12	15	32.9						
		eLE	12	15	54.0						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



International  
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From Aug. 27 to Aug. 29 1929 No. 34

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
		Fz	12	16	51						
		FE	12	18	16						
287	Aug 27.	eP	18	26	14.7						
		F	18	27	10						
288	Aug. 29	eP	0	25	44.6				156		
		eL	0	26	05.6						
		FE	0	26	51						
289	Aug. 29	ePz	3	52	51.5				590		
		ePN	3	52	53.2						
		ePE	3	52	55.1						
		eS	3	53	51.1						
		eLz	3	54	06.4						
		eLE	3	54	14.8						
		MN	3	54	44	1.6		±90			
		ME	3	57	31	8.8	±374				
		FE	4	51	±						





# TYOSI, JAPAN.

## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY

$\varphi = 35^{\circ}44'N$   $\lambda = 140^{\circ}52'E$   $h = 18.2m$  Lithologic foundation : Loam (Tertiary)



### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS <sub>kg</sub>	DAMPING	$T_0$	$\frac{r}{T_0^2}$	$\mathcal{E}$	V
Wiechert	N—S	200	Air	6.3	0.004	7	77
	E—W	200	"	3.7	0.020	4	96
Wiechert	U—D	80	"	3.4	0.022	6	75
Omori	N—S	14.5	Magnetic	20	0.003	2—4	20
Omori	E—W	15.0	"	20	0.004	2—4	20
Omori	N—S	46.1		18	—		120
Omori	N—S	20		4	0.065		50
	E—W	20		4	0.065		50
C. M. O.	N—S	2.3	Magnetic	3.5	0.004	2—3	2
	E—W	2.3	"	3.5	0.004	2—3	2
	U—D	2.3	"	5.0	0.003	2—3	3
Omori	U—D	6.1		5	—		20

From Sept. 1 to Sept. 5 1929 No. 35

No.	Date	Phase	Time 135° E			Period	Amplitude			$\Delta$	Remarks
			h.	m.	s.		AE	AN	AZ		
			h.	m.	s.	s.	$\mu$	$\mu$	$\mu$	k.m.	
290	Sept. 1	P	14	58	49.7					41	
		L	14	58	55.2						
		F	14	59	12						
291	Sept. 1	eP	15	21	46.6					44	
		eL	15	21	52.6						
		F	15	22	29						
292	Sept. 2	eP	20	20	40.1					2843	
		eS	20	25	11.4						
		F	21	12	±						
293	Sept. 3	eP	0	39	51.8					91	
		eS	0	40	00.5						
		$\bar{S}$	0	40	04.1						
		eE	0	40	12.2						
		eLN	0	40	14.6						
		eJE	0	40	16.4						
		F	0	41	27						
294	Sept. 3	eP	0	55	09.4					107	
		eSN	0	55	15.5						
		$\bar{S}$	0	55	18.0						
		eN	0	55	20.0						
		eLN	0	55	23.8						
		FN	0	56	05						
295	Sept. 5	eP	16	35	58.5					48	
		L	16	36	04.9						
		F	16	37	00						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



International  
Seismological  
Centre

From            Sept. 6            to            Sept. 18            1929            No. 36

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
296	Sept. 6	P	4	58	23.2						
		F	4	59	00						
297	Sept. 6	eP	9	45	10.4				42		
		S	9	45	13.8						
		eL	9	45	16.0						
		F	9	46	01						
298	Sept. 8	eP	11	34	16.3				114		
		eL	11	34	31.7						
		F	11	35	31						
299	Sept. 8	S	17	37	18.0						
		eL	17	37	23.2						
		F	17	39	±						
300	Sept. 9	ePz	2	11	18.8				226		
		ePEN	2	11	19.8						
		P̄N	2	11	23.0						
		LEN	2	11	50.3						
		FN	2	22	±						
301	Sept. 9	e	18	41	29.0						
		F	18	42	08						
302	Sept.14	eP	8	39	37.8				34		
		L	8	39	42.4						
		F	8	40	07						
303	Sept.14	eP	16	29	38.9						
		F	16	30	10						
304	Sept.15	eP	6	25	25.8				65		
		L	6	25	34.5						
		F	6	26	10						
305	Sept.15	e	13	42	27.2						
		F	13	42	50						
306	Sept.17	eP	22	01	19.6				105		
		L	22	01	33.8						
		F	22	02	29						
307	Sept.18	e <sub>1</sub>	4	28	±						
		e <sub>2</sub>	4	47	±						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



International  
Seismological  
Centre

From Sept. 19

to

Sept. 27

1929

No. 37

No.	Date	Phase	Time 135° E			Period	Amplitude			△ km.	Remarks
			h.	m.	s.		AE	AN	AZ		
						s.	μ	μ	μ		
		e <sub>3</sub>	4	56	±	3.8	± 6				
		F	6	13	±						
308	Sept.19	eP	17	09	46.7				50		
		L	17	09	53.5						
		F	17	10	07						
309	Sept.20	e	0	05	15.3						
		F	0	06	21						
310	Sept.20	eP	3	10	37.1				142		
		eL	3	10	56.7						
		F	3	12	19						
311	Sept.20	eP	10	24	02.6				221		
		e <sub>1</sub>	10	24	13.2						
		eL	10	24	32.4						
		F	10	25	19						
312	Sept.20	eP	12	34	44.6				79		
		L	12	34	55.2						
		F	12	35	52						
313	Sept.21	eP	3	04	25.2				34		
		L	3	04	29.8						
		F	3	04	57						
314	Sept.22	eP	8	39	43.4				50		
		L	8	39	50.1						
		F	8	40	17						
315	Sept.22	eP	9	07	45.9				109		
		eL	9	08	00.7						
		F	9	08	55						
316	Sept.23	e	20	02	41.5						
		F	20	02	57						
317	Sept.26	e	2	27	05.6						
		eS	2	27	09.9						
		eL	2	27	11.6						
		F	2	28	41						
318	Sept.27	eP	0	17	46.2				63		
		eL	0	17	54.7						





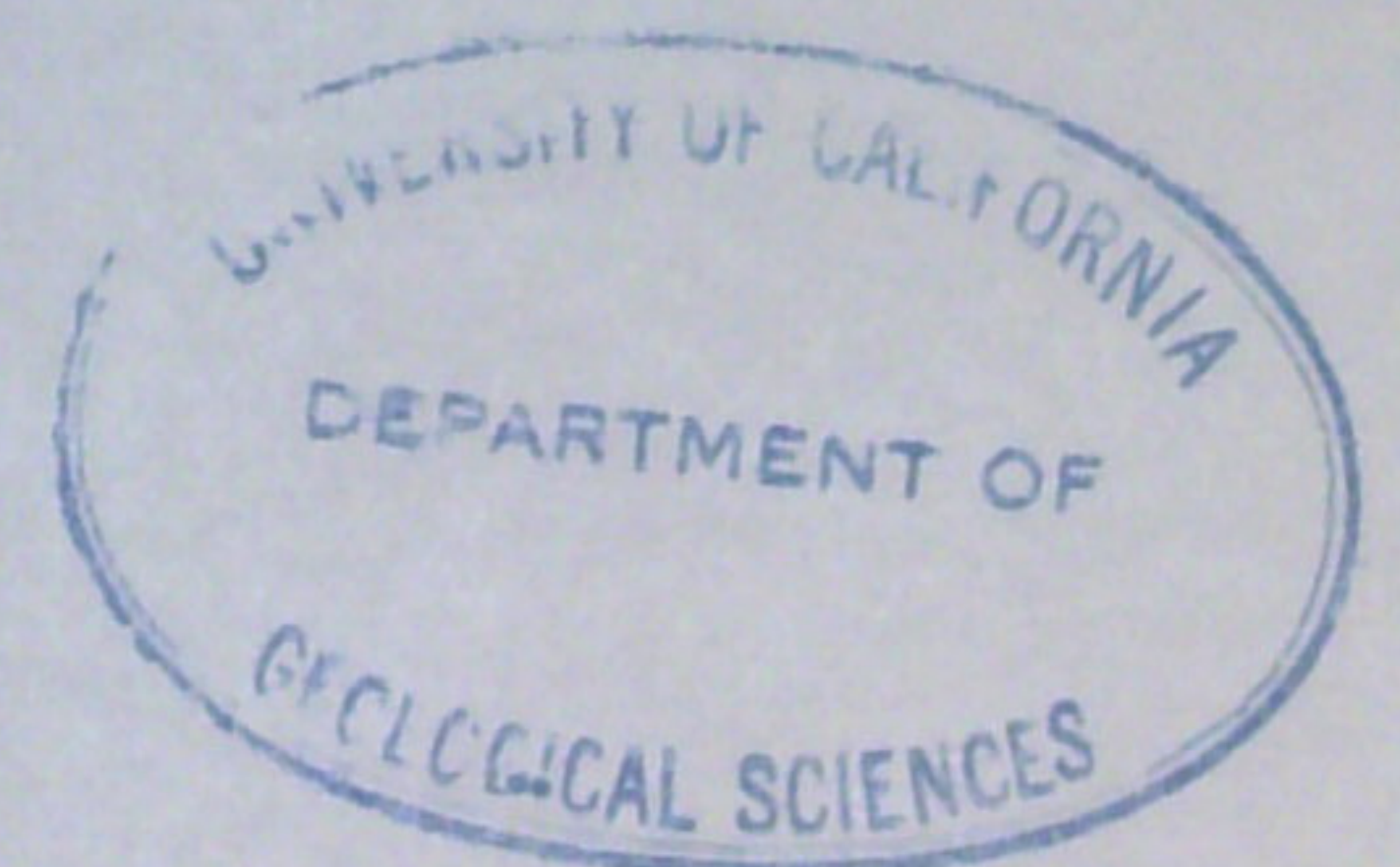
# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Sept. 27 to Sept. 30 1929 No. 38

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
319	Sept.27	F	0	19	06				44		
		eP	10	21	30.0						
		eL	10	21	35.9						
320	Sept.28	F	10	22	26				62		
		eP	3	19	55.0						
		eL	3	20	03.4						
321	Sept.28	F	3	21	02				1950		
		P	23	58	07.8						
		LN	0	01	14.9	3.5		- 4			
		LE	0	01	16.1	3.5	+ 7				
322	Sept.29	F	0	09	±				81		
		P	2	10	49.6						
		L	2	11	00.5						
323	Sept.30	F	2	12	14				57		
		P	4	41	39.8						
		L	4	41	47.5	1.0	+36	-16			
		MN	4	41	48.5	0.7		±38			
		F	4	43	I9						





# TYOSI, JAPAN.

## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY

$\varphi = 35^{\circ}44'N$      $\lambda = 140^{\circ}52'E$      $h = 18.2m$     Lithologic foundation : Loam (Tertiary)

### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS <sub>kg</sub>	DAMPING	$T_0$	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	N — S	200	Air	6.3	0.004	7	77
	E — W	200	"	3.7	0.020	4	96
Wiechert	U — D	80	"	3.4	0.022	6	75
Omori	N — S	14.5	Magnetic	20	0.003	2—4	20
Omori	E — W	15.0	"	20	0.004	2—4	20
Omori	N — S	46.1		18	—		120
Omori	N — S	20		4	0.065		50
	E — W	20		4	0.065		50
C. M. O.	N — S	2.3	Magnetic	3.5	0.004	2—3	2
	E — W	2.3	"	3.5	0.004	2—3	2
	U — D	2.3	"	5.0	0.003	2—3	3
Omori	U — D	6.1		5	—		20

From Oct. 4 to Oct. 6 1929 No. 39

No.	Date	Phase	Time 135° E			Period s.	Amplitude			$\Delta$ km.	Remarks
			h.	m.	s.		AE $\mu$	AN $\mu$	AZ $\mu$		
324	Oct. 4	P	3	33	35.0				156		
		L	3	33	56.1						
		F	3	35	32						
325	Oct. 4	Pz	7	51	42.2				63		
		PEN	7	51	43.2						
		Lz	7	51	49.9						
		LEN	7	51	51.7						
		F	7	53	17						
326	Oct. 4	e	10	47	1 44						
		F	10	49	03						
327	Oct. 6	e	2	04	58.4						
		F	2	06	19						
328	Oct. 6	ePN	4	03	05.0				740		
		ePE	4	03	06.4						
		S	4	04	05.4						
		LN	4	04	44.0						
		LE	4	04	46.4						
		MN1	4	05	02.3	2.2		$\pm 16$			
		ME1	4	05	03.4	1.9	$\pm 15$				
		MN2	4	05	40.0	2.6		$\pm 20$			
		ME2	4	05	52.9	4.0	$\pm 14$				
		F	4	09	±						
329	Oct. 6	P	23	29	38.4				42		
		eSz	23	29	40.2						
		SNE	23	29	41.4						
		LEN	23	29	44.0						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Oct. 9 to Oct. 19 1929 No. 40

No.	Date	Phase	Time 135° E			Period	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
		LEN	23	29	44.0						
		MEN	23	29	46.3	0.5	-31	+20			
		F	23	31	15						
330	Oct. 9	e	7	58	42.4						
		L	7	58	42.9						
		F	7	58	53						
331	Oct. 11	eP	21	18	54.6				88		
		eS	21	18	59.2						
		eL	21	19	06.5						
		F	21	19	42						
332	Oct. 12	PEN	18	26	33.9				42		
		P̄EN	18	26	34.3						
		PZ	18	26	34.6	0.1			+9		
		SEN	18	26	38.8	0.2	+7	-34			
		LEN	18	26	39.6	0.4	-46	+104			
		LZ	18	26	40.8	0.2			-28		
		FZ	18	28	05						
333	Oct. 14	PZ	12	11	14.6	0.1			+3	21	
		PEN	12	11	15.3						
		LEN	12	11	18.2	0.6	-16	-45			
		LZ	12	11	18.2	0.3			+6		
		MZ	12	11	18.9	0.3			-16		
		FEN	12	11	47						
		FZ	12	12	16						
334	Oct. 18	P	15	38	08.7				12	Neighbourhood of Tyosi.	
		L	15	38	10.3	0.5	-78	+25		Felt slightly.	
		FEN	15	38	48						
		FZ	15	39	27						
335	Oct. 18	eP	16	21	05.4				15		
		L	16	21	07.4						
		F	16	21	21						
336	Oct. 18	P	19	01	52.2				85		
		L	19	02	03.6						
		F	19	02	43						
337	Oct. 19	eP	19	32	41.7				292		
		eL	19	33	21.1						
		e	19	36	59.8						







From Oct. 20 to Oct. 24 1929 No. 41

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
338	Oct. 20	e <sub>E</sub>	19	46	27.5				24		
		F	22	09	±						
		eP	19	46	20.4						
		L	19	46	23.7						
339	Oct. 20	F	19	46	48				80		
		eP	20	31	41.0						
		eL <sub>Z</sub>	20	31	49.4						
		L <sub>EN</sub>	20	31	51.8	1.0	- 7				
		M <sub>E</sub>	20	31	53.9	0.7	+22				
340	Oct. 22	F <sub>E</sub>	20	32	51				185		
		eP <sub>E</sub>	1	31	46.5						
		eP <sub>N</sub>	1	31	50.3						
		eL <sub>E</sub>	1	32	11.5						
		eL <sub>N</sub>	1	32	14.0						
		M <sub>E</sub>	1	32	20.6	1.4	+ 8				
341	Oct. 22	F	1	33	26				1910		
		eN <sub>1</sub>	22	59	42.0						
		eE <sub>1</sub>	22	59	45.2						
		eE <sub>2</sub>	23	02	42.2						
		eN <sub>2</sub>	23	02	43.9						
342	Oct. 24	F	23	04	06				29	Off Inubō cape. Felt slightly.	
		iP <sub>EN</sub>	2	48	27.4	0.2	+ 7	+ 6			
		iP <sub>Z</sub>	2	48	27.4	1.0		+34			
		L <sub>EN</sub>	2	48	31.3	0.8	-64	-32			
		L <sub>Z</sub>	2	48	31.3	0.6		-36			
		M <sub>E</sub>	2	48	34.2	1.1	-208				
		M <sub>N</sub>	2	48	35.8	0.5		-204			
343	Oct. 24	F	2	53	±				26		
		eP	2	52	30.3						
		L	2	52	33.8						
344	Oct. 24	F	2	53	28				30		
		eP	4	08	38.2						
		eS	4	08	42.2						
		eL	4	08	45.6						
345	Oct. 24	F	4	09	12				107		
		eP	14	50	24.2						
		eL	14	50	38.6						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Oct. 24 to Oct. 31 1929 No. 42

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
		F	14	56	±						
346	Oct. 24	e <sub>1</sub>	16	07	55.8						
		e <sub>2</sub>	16	08	30.5						
		F	16	10	±						
347	Oct. 24	P	16	17	37.7				27		
		S	16	17	41.3						
		L	16	17	43.2						
		F	16	19	22						
348	Oct. 25	P	10	06	42.1				32		
		L	10	06	46.4	0.5	+26	-14			
		F	10	07	15						
349	Oct. 27	e	11	33	51.0						
		F	11	35	05						
350	Oct. 28	P	7	40	14.0				25		
		S	7	40	17.3	0.5	-8	+12			
		L	7	40	19.6	0.5	+17	+13			
		F	7	41	21						
351	Oct. 28	Pz	17	13	45.5				28		
		PeN	17	13	46.8						
		SeN	17	13	50.6						
		Le	17	13	52.7						
		Ln	17	13	53.7						
		F	17	14	58						
352	Oct. 31	eP	22	03	30.4				89		
		eL	22	03	42.4						
		F	22	04	53						





# TYOSI, JAPAN.

## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY.

$\varphi = 35^{\circ} 44' N$   $\lambda = 140^{\circ} 52' E$   $h = 18.2m$  Lithologic foundation : Loam (Tertiary)

### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS <sub>kg</sub>	DAMPING	T <sub>0</sub>	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	N — S	200	Air	6.3	0.004	7	77
	E — W	200	"	3.7	0.020	4	96
Wiechert	U — D	80	"	3.4	0.022	6	75
Omori	N — S	14.5	Magnetic	20	0.003	2—4	20
Omori	E — W	15.0	"	20	0.004	2—4	20
Omori	N — S	46.1		18	—		120
Omori	N — S	20		4	0.065		50
	E — W	20		4	0.065		50
C. M. O.	N — S	2.3	Magnetic	3.5	0.004	2—3	2
	E — W	2.3	"	3.5	0.004	2—3	2
	U — D	2.3	"	5.0	0.003	2—3	3
Omori	U — D	6.1		5	—		20

From Nov. 1 to Nov. 6 1929 No. 43

No.	Date	Phase	Time 135° E			Period	Amplitude			$\Delta$	Remarks
			h.	m.	s.		AE	AN	AZ		
353	Nov. 1	P	14	31	08.0	1.0	-10	+9	39		
		L	14	31	13.3						
		F	14	31	57						
354	Nov. 3	P	0	12	05.9				80		
		L	0	12	16.7						
		F	0	12	56						
355	Nov. 3	e <sub>1</sub>	1	43	31.6						
		e <sub>2</sub>	1	43	39.7						
		F	1	43	56						
356	Nov. 3	Pz	17	29	45.5	0.8	+20	-4	49		
		PEN	17	29	46.2						
		L	17	29	52.8						
		F	17	30	46						
357	Nov. 4	e <sub>1</sub>	10	36	22.3						
		e <sub>2</sub>	10	36	23.8						
		eL	10	36	24.6						
		F	10	36	47						
358	Nov. 4	e	21	39	25.9						
		F	21	39	56						
359	Nov. 5	eP	20	45	18.8				3030		
		eL	20	50	29.9						
		F	21	14	±						
360	Nov. 6	eP	8	33	02.1				211		
		S	8	33	30.6						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



From Nov. 6 to Nov. 16 1929 No. 44

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
361	Nov. 6	eL	8	33	53.1	1.0	+45	+39	53		
		F	8	36	39						
		eP	20	07	16.3						
362	Nov. 8	L	20	07	23.5						
		F	20	12	±						
		eP	13	19	04.5						
363	Nov. 10	F	13	19	34				127		
		eP	6	10	15.2						
		eL	6	10	32.3						
364	Nov. 10	F	6	11	14				83		
		eP	7	56	05.9						
		eL	7	56	17.1						
365	Nov. 10	F	7	56	41						
		L	15	15	25.7						
		F	15	15	50						
366	Nov. 12	eP	4	11	59.2				112		
		eSE	4	12	05.2						
		eL	4	12	17.9						
		F	4	13	49						
367	Nov. 12	eP	12	56	40.4				46		
		eL	12	56	48.0						
		F	12	57	09						
368	Nov. 13	eP	10	32	05				540		
		eL	10	33	18						
		F	10	35	09						
369	Nov. 14	eP	15	18	56.4						
		F	15	19	04						
370	Nov. 16	ePz	3	56	32.3	16.0	±480	±435	2500		
		ePEN	3	56	39.0						
		eLEN	4	01	12.3						
		MZ	4	06	19.0						
		ME	4	06	21.7						
		MN	4	06	26.9						
		FN	5	22	±						
		FE	6	07	±						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



International  
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From Nov. 16 to Nov. 26 1929 No. 45

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		A <sub>E</sub> μ	A <sub>N</sub> μ	A <sub>Z</sub> μ		
371	Nov.16	eP	5	10	33.0				42		
		L	5	10	38.7						
		F	5	11	21						
372	Nov.17	ePE	12	49	51.1				4020		
		ePN	12	49	52.0						
		eSE	12	50	54.4						
		eSN	12	50	59.7						
		eE	12	55	43.7						
		eL	12	58	16.0						
		FE	13	53	±						
373	Nov.19	e	6	28	±						
		F	6	46	±						
374	Nov.19	eP	7	10	37.4				76		
		eL	7	10	47.7						
		MEN	7	10	50.2	0.6	±8	±10			
		F	7	12	59						
375	Nov.20	PZ	1	31	39.8	1.0		+6	91		
		PEN	1	31	40.9	0.2	+4	-2			
		SN	1	31	47.6						
		LEN	1	31	53.1	1.0	+109	+139			
		LZ	1	31	54.9	0.5		+24			
		F	1	34	30						
376	Nov.20	P	10	06	25.5				51		
		SN	10	06	32.4						
		ME	10	06	45.0	0.9	±9				
		F	10	08	03						
377	Nov.20	eP	14	56	04.5				414		
		eL	14	57	00.4						
		F	15	01	18						
378	Nov.24	P	3	40	26.7				78		
		L	3	40	37.2						
		F	3	41	15						
379	Nov.26	PZ	22	09	10.9				59		
		PEN	22	09	11.8						
		LEN	22	09	19.7						
		MN	22	09	37.3	0.9		-19			
		ME	22	09	39.7	0.9	+21				





# TYOSI, JAPAN.

## SEISMIC BULLETIN



International  
Seismological  
Centre

From Nov. 30 to Nov. 30 1929 No. 46

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
380	Nov.30	F	22	11	25				36		
		eP	3	48	25.7						
		L	3	48	30.5						
381	Nov.30	F	3	49	06						
		eP	15	35	37.4						
382	Nov.30	F	15	36	58				136		
		eP	22	07	53.9						
		L	22	08	12.2						
		F	22	09	15						





# TYOSI, JAPAN.

## SEISMIC BULLETIN

TYOSI METEOROLOGICAL OBSERVATORY

$\varphi = 35^{\circ}44'N$      $\lambda = 140^{\circ}52'E$      $h = 18.2m$     Lithologic foundation : Loam (Tertiary)



### INSTRUMENTAL CONSTANTS

INSTRUMENT	COMPONENT	MASS <sub>kg</sub>	DAMPING	$T_0$	$\frac{r}{T_0^2}$	$\epsilon$	V
Wiechert	N—S	200	Air	6.3	0.004	7	97
	E—W	200	"	3.7	0.020	4	76
Wiechert	U—D	80	"	3.4	0.022	6	75
Omori	N—S	14.5	Magnetic	20	0.003	2—4	20
Omori	E—W	15.0	"	20	0.004	2—4	20
Omori	N—S	46.1		18	—		120
Omori	N—S	20		4	0.065		50
	E—W	20		4	0.065		50
C. M. O.	N—S	2.3	Magnetic	2.5	0.001	2	2
	E—W	2.3	"	2.3	0.005	2	2
	U—D	2.3	"	3.0	0.019	2	3
Omori	U—D	6.1		5	—		20

From Dec. 4 to Dec. 7 1929 No. 47

No.	Date	Phase	Time 135° E			Period s.	Amplitude			$\Delta$ km.	Remarks
			h.	m.	s.		AE $\mu$	AN $\mu$	AZ $\mu$		
383	Dec. 4	eP	5	05	11.7				28		
		eL	5	05	15.5						
		F	5	05	57						
384	Dec. 4	PEN	17	03	21.4				75		
		PZ	17	03	22.0						
		LEN	17	03	31.5						
		eLZ	17	03	33.5						
		F	17	04	45						
385	Dec. 6	P	13	15	39.5	0.7	+7	-68	38	Felt rather strongly. Kujukurihama.	
		LEN	13	15	44.6	0.7	+240	-247			
		FZ	13	20	45			487			
386	Dec. 6	eP	19	40	13.9						
		F	19	40	36						
387	Dec. 7	PEN	9	22	56.0				37		
		PZ	9	22	57.4						
		LE	9	23	01.0	1.9	+15				
		LN	9	23	01.0	1.0		+8			
		MEN	9	23	03.3	0.7	$\pm 10$	$\pm 22$			
		F	9	24	11						
388	Dec. 7	e	11	21	55.7						
		F	11	22	34						
389	Dec. 7	PZ	13	12	08.5				76		
		LEN	13	12	18.8						
		F	13	12	59						





From Dec. 7 to Dec. 13

1929

No. 48

No.	Date	Phase	Time 135° E			Period s.	Amplitude			△ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
390	Dec. 7	PZ	13	22	24.4				33		
		PEN	13	22	25.7						
		eLEN	13	22	30.2						
		F	13	23	26						
391	Dec. 8	PZ	12	13	58.8				54		
		eL	12	14	06.1						
		F	12	14	25						
392	Dec. 8	PEN	19	02	57.0	0.6	+2	-1	62		
		PZ	19	03	57.0	0.7		-6			
		LEN	19	03	05.3	1.4	+11	-15			
		LZ	19	03	05.3	0.9		-8			
		ME	19	03	05.9	0.5	±36				
		MZ	19	03	05.9	0.6		±12			
		F	19	04	24						
393	Dec. 9	eE	16	06	51						
		LE	16	16	±						
		LN	16	17	±						
		ME	16	26	57	14.8	±31				
		FE	16	42	±						
394	Dec. 10	PZ	22	26	15.4				80		
		PEN	22	26	16.0						
		LEN	22	26	26.8						
		F	22	27	06						
395	Dec. 11	PZ	2	46	47.9	0.1		-19	40		
		PEN	2	46	48.8						
		SEN	2	46	52.7						
		LEN	2	46	54.2	1.1	-36	-47			
		F	2	47	59						
396	Dec. 11	eP	16	05	19.0				25		
		eL	16	05	22.4						
		F	16	05	43						
397	Dec. 13	eP	0	12	52.6				56		
		eL	0	13	00.1						
		F	0	13	31						
398	Dec. 13	P	11	47	20.9				38		
		L	11	47	26.0	1.1	+17	-22			
		F	11	47	59						





# TYOSI, JAPAN.

## SEISMIC BULLETIN



International  
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From Dec. 13 to Dec. 20 1929 No. 49

No.	Date	Phase	Time 135° E			Period	Amplitude			△	Remarks
			h.	m.	s.		AE	AN	AZ		
						s.	μ	μ	μ	km.	
399	Dec. 13	P	11	56	57.9					32	
		LEN	11	57	02.2	1.0	+4	-5			
		F	11	57	15						
400	Dec. 13	P	13	23	16.5					33	
		L	13	23	21.0	1.1	+11	-15			
		F	13	23	55						
401	Dec. 13	eP	22	45	03.3					73	
		eL	22	45	13.1						
		F	22	46	13						
402	Dec. 14	eL	22	11	24.0						
		F	22	11	42						
403	Dec. 17	eP	3	20	41.1					19	
		L	3	20	43.7						
		F	3	21	09						
404	Dec. 17	eP	20	04	28.2					3100	
		eL	20	10	32.0	11.0	-560	+1700			
		ME	20	11	12.4	22.0	±2450				
		MN	20	11	36.9	18.0		±2500			
		MZ	20	13	02.6	18.0			±880		
		FE	22	52	±						
405	Dec. 17	e	20	23	29.2						
		F	20	23	56						
406	Dec. 17	e	20	33	10.1						
		F	20	36	59						
407	Dec. 17	e	21	47	06.9						
		F	21	48	27						
408	Dec. 18	e	6	06	58.9						
		F	6	07	17						
409	Dec. 18	eP	11	57	31.2					41	
		eL	11	57	36.7						
		F	11	58	00						
410	Dec. 20	ePEN	11	05	48.9					56	
		ePz	11	05	49.7						
		L	11	05	56.7	1.5	+15	-22	+9		





# TYOSI, JAPAN.

## SEISMIC BULLETIN



International  
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From Dec. 20 to Dec. 29 1929 No. 50

No.	Date	Phase	Time 135° E			Period s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		AE μ	AN μ	AZ μ		
411	Dec. 20	F	11	06	48						
		e	15	00	27.1						
		F	15	00	50						
412	Dec. 20	eL	20	49	44.7						
		F	20	50	06						
413	Dec. 21	P	20	40	57.8				53		
		L	20	41	05.0	0.9	-23	+10			
		MN	20	41	05.5	0.9		±15			
		MZ	20	41	06.5	0.3				±5	
		F	20	41	34						
414	Dec. 22	ePz	6	39	25.5				50		
		ePEN	6	39	29.3						
		eLe	6	39	36.0						
		eLN	6	39	36.9						
		F	6	40	06						
415	Dec. 24	ePz	1	38	12.1				24		
		ePEN	1	38	16.2						
		eLN	1	38	19.5						
		F	1	38	37						
416	Dec. 26	eL	5	44	02.3						
		F	5	44	46						
417	Dec. 26	eL	23	00	11.9						
		F	23	00	45						
418	Dec. 26	ePz	23	21	30.1				73		
		eLEN	23	21	40.0						
		F	23	23	29						
419	Dec. 27	eP	14	17	50.6				44		
		eL	14	17	56.5						
		F	14	18	42						
420	Dec. 27	e	22	39	43.2						
		F	22	39	54						
421	Dec. 29	L	0	14	40.0						
		F	0	14	52						
422	Dec. 29	L	0	37	59.9						

