

# TOKYO JAPAN.

## SEISMIC BULLETIN

of the Central Meteorological Observatory of Japan.

$\phi = 35^{\circ} 41' 06''$        $\lambda = 139^{\circ} 45' 04''$        $h = 21.3 \text{ m}$       Underground: Diluvium (loam)

Instruments:      Wiechert Astatic Inverted Pendulum.  
                             Ōmori Horizontal Pendulum.

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	5.0	3.2	0.0001	145
AE:	5.0	3.2	0.0001	155
Ōmori-pendulum AE	Az:	17.7	—	0.007 20

No.	Date		Phase	Time			Period	Amplitude			J	Remarks
	Day	Month		h	m	s		AN	AE	Az		
24	31	Jan	iP	19	45	56.7					196	
			iS		46	23.3						
			MN		46	29.8	0.3	+38				
			ME		47	34.0	0.4		+55			
			MN		48	31.0	1.6	+33				
			ME		48	14.0	1.9		+45			
			eF		54	—						
25	1	Feb	iP	13	00	42.0					52	
			iS		00	49.0						
			ME		00	50.0	0.4		±7			
			MN		00	50.2						
			F		02	10.0						
26	1		e	19	34	29.0					—	
			eS		42	54.0						
			eME		44	13.0	8.0		-75			
			eF	20	03	—						
27	2		eP	01	1.1	47.1					2700	
			eS		1.6	08.4						
			MN		1.7	04.0	4.4	+38				
			ME		1.7	11.5	3.6		-26			
			eF		3.7	—						



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	Day	Month		h	m	s		s	AN	AE		
28	2		eP	05	12	29.8					2820	
			S		17	00.2						
			L <sup>?</sup>		18	24.0						
			MN <sub>1</sub>		18	59.0	4.0	±148				
			ME <sub>1</sub>		19	02.0	4.2		±173			
			MN <sub>2</sub>		20	18.0	3.9	±208				
			ME <sub>2</sub>		20	23.0	3.7		±178			
			MN <sub>3</sub>		24	59.0	2.9	+118				
			ME <sub>3</sub>		30	26.0	3.1		±124			
			CN		38	49.0	3.6	-94				
			CE		39	57.0	3.1		-83			
		eF	07	13	—							
29	3		P	16	06	54.6	first motion	{ 0.4 to N 0.1 to E			2610	
			eS		11	09.0						
			ME		16	46.0	7.3		-2000			
			MN		16	51.0	8.8	+1855				
			eF		21	20	—					
30	4		iP	22	35	54.3					98	
			iS		36	07.6						
			MN		36	11.1	—	+41				
			ME		36	17.6	—		-37			
			F		38	03.0						
31	5		e	11	48	59.0						





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No.	Date		Phase	Time	Period	Amplitude			J	Remarks		
	Day	Month				AN	AE	Az				
32	5		iP	21 28 06.3	first motion	1.7 to W 1.8 to S			190			
			iS	28 32.0								
			MN	28 40.4							0.8	+69
			ME	28 57.7							0.6	±58
			eF	38 10.0								
33	6		iP	15 45 50.1	9.6				197			
			eS	47 35.0								
			ME	49 38.0							+35	
			eF	16 03 —								
34	6		iP	19 46 23.0	0.7	-4			335			
			iS	47 00.5								
			MN	47 47.0							1.1	-6
			ME	47 51.0								
			F	49 35.0								
35	7		iP	21 30 01.9	first motion	0.3 to W 0.4 to S			82			
			iS	30 13.5								
			MN	30 13.7							—	±29
			ME	30 14.3							—	-20
			eF	31 15.0								
36	8		e	07 57 39.0								
37	9		e	00 20 05.0								





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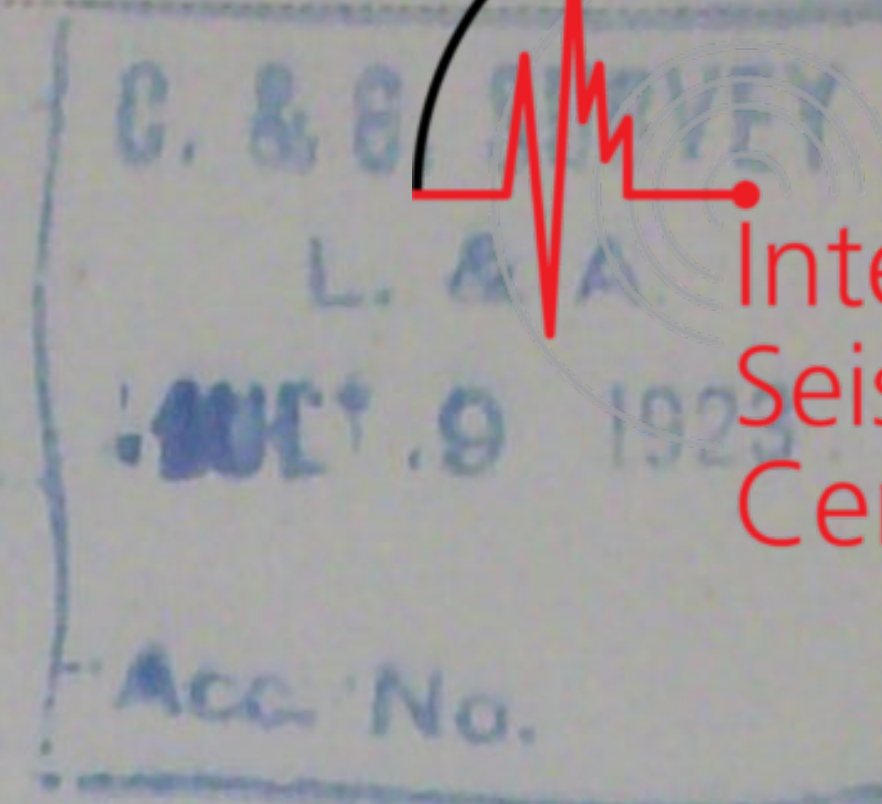
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	Day	Month		h	m	s		AN	AE	Az				
38	11		iP	18	26	42.6	first motion	}	1.1 to E	0.4 to N	133			
			iS		27	00.5								
			ME		27	04.8							—	±200
			MN		27	04.2							—	±230
			F		43	41.0								
39	11		e	22	51	04.0				—				
40	12		iP	02	03	50.4	48				3354			
			iS		07	59.3								
			ME		09	21.0							—	-54
			eF	03	42	—								
41	12		iP	12	29	34.9	first motion	}	1.8 to S	0.4 to E	364			
			iS		30	23.9								
			MN		30	26.0							—	±43
			ME		30	27.1							—	-55
			eF		50	—								
42	14		iP	13	42	28.0					124			
			iS		42	41.4								
			MN		43	13.4							—	+12
			ME		43	14.3							—	+13
			eF		45	58.0								
43	17		e	07	03	38.2				—				



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International  
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	Day	Month		h	m	s		AN	AE	Az		
44	18		iP	20	01	51.9					12	
			iS		01	53.8						
			MN		01	54.8	—	+2				
			ME		01	53.9	—		-3			
			eF		—							
45	18		iP	20	02	07.8					43	
			iS		02	13.8						
			MN		02	14.0	—	+34				
			ME		02	13.9	—		+31			
			F		03	40.0						
46	18		eP	23	43	08.8					—	
			eS		44	49.0						
			MN		45	57.0	1.4	-20				
			ME		45	57.4	1.9		-34			
			eF	19	0	28	—					
47	19		eP	06	24	20.0					—	
			eS		26	44.0						
			MN		28	58.0	1.4	+24				
			eME		29	14.0	1.9		-30			
			eF		33	26.0						
48	22		iP	09	26	39.0					267	
			iS		27	08.3						
			MN		29	07.0	1.7	+21				
			ME		29	13.5	1.8		+19			
			eF		35	40.0						



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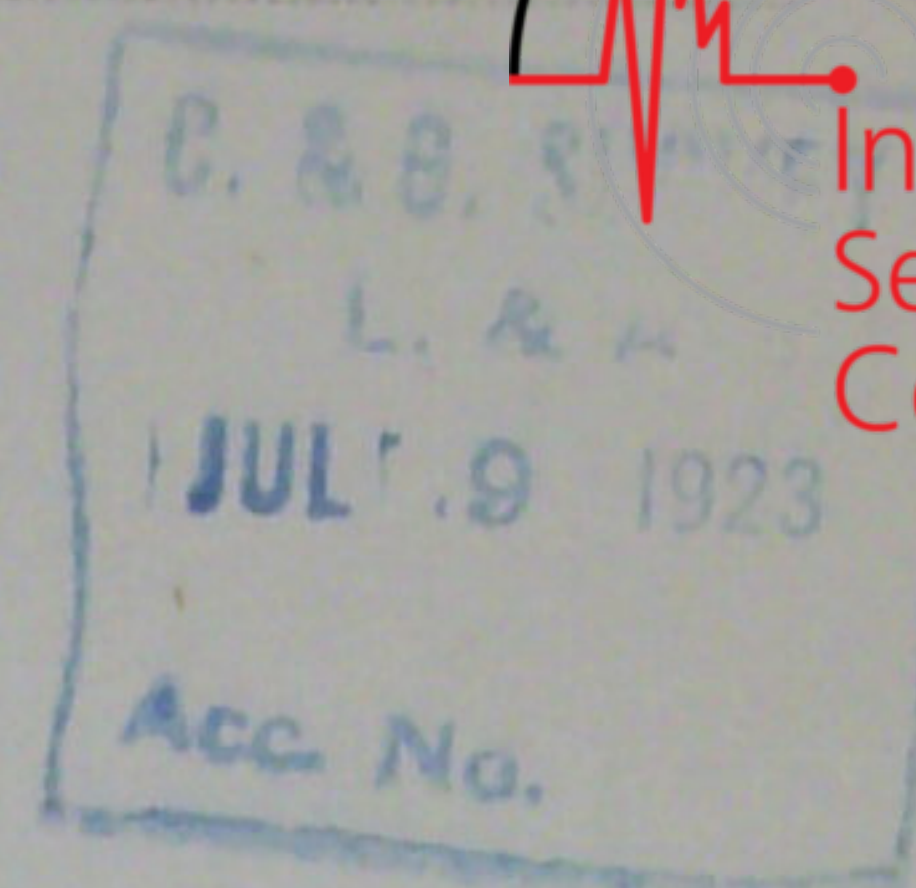
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	Day	Month		h	m	s		AN	AE	Az		
49	23		iP	05	59	16.9					3336	
			eS	06	05	37.0						
			MN	06	57.7	2.6	+45					
			ME	06	59.4	2.8		-57				
			MN	08	55.8	4.7	+40					
			ME	09	18.0	4.9		-57				
			eF	07	25	—						
50	24		iP	06	32	03.4					150	
			iS	32	20.4							
			MN	32	32.2	0.3	+36					
			ME	32	34.4	0.5		-24				
			eF	34	—							
51	24		eP	07	39	50.0					2970	
			eS	44	31.0							
			MN	47	46.5	2.8	$\pm 69$					
			ME	47	49.8	3.2		$\pm 88$				
			MN	52	51.0	3.9	-72					
			MN	53	18.0	3.6	+92					
52	28		iP	22	03	21.0					60	
			iS	03	29.7							
			MN	03	31.5	0.4	+19					
			ME	03	21.2	0.3		+17				
			eF	05	40.0							





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No.	Date		Phase	Time			Period	Amplitude			J	Remarks
	Day	Month		h	m	s		AN	AE	Az		
53	28		iP	22	45	29.0				54		
			iS		45	36.4						
			MN		45	37.1	0.3	+18				
			ME		45	37.4	0.4		-14			
			F		47	30.0						
54	28		iP	23	16	39.9				57		
			iS		16	47.8						
			MN		16	48.1	0.3	+8				
			ME		16	48.3	0.4		-7			
			eF		18	40.0						
55	28		iP	23	31	58.8				64		
			iS		32	07.6						
			MN		32	08.4	0.4	+16				
			ME		32	08.5	0.3		-14			
			eF		33	20.0						
56	28		iP	23	44	42.1				56		
			iS		44	49.8						
			MN		44	51.2	0.4	+27				
			ME		44	51.8	0.5		-28			
			eF		49	20.0						





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No.	Date		Phase	Time			Period	Amplitude			$\Delta$	Remarks
	Day	Month		h	m	s		AN	AE	Az		
57	1	Mar	iP	0	58	38.9					—	
			iS		58	45.7						
			MN		58	47.3	0.3	+15				
			ME		58	48.6	0.3		-14			
			eF	1	01	—						
58	1		iP	2	10	41.3					—	
			iS		10	49.0						
			MN		10	49.1	—	-5				
			ME		10	49.2	—		-6			
			F		12	50.0						
59	1		iP	2	24	00.6					—	
			iS		24	07.3						
			MN		24	07.7	—	+13				
			ME		24	08.1	—		-11			
			eF		25	25.0						
60	1		iP	2	40	18.1					—	
			iS		40	24.3						
			MN		40	25.5	0.4	+10				
			ME		40	26.0	0.2		-9			
			eF		42	49.0						
61	1		iP	2	44	44.5					—	
			iS		44	51.5						
			MN		44	52.9	0.4	+14				
			ME		44	52.7	0.3		+12			
			eF		47	25.0						



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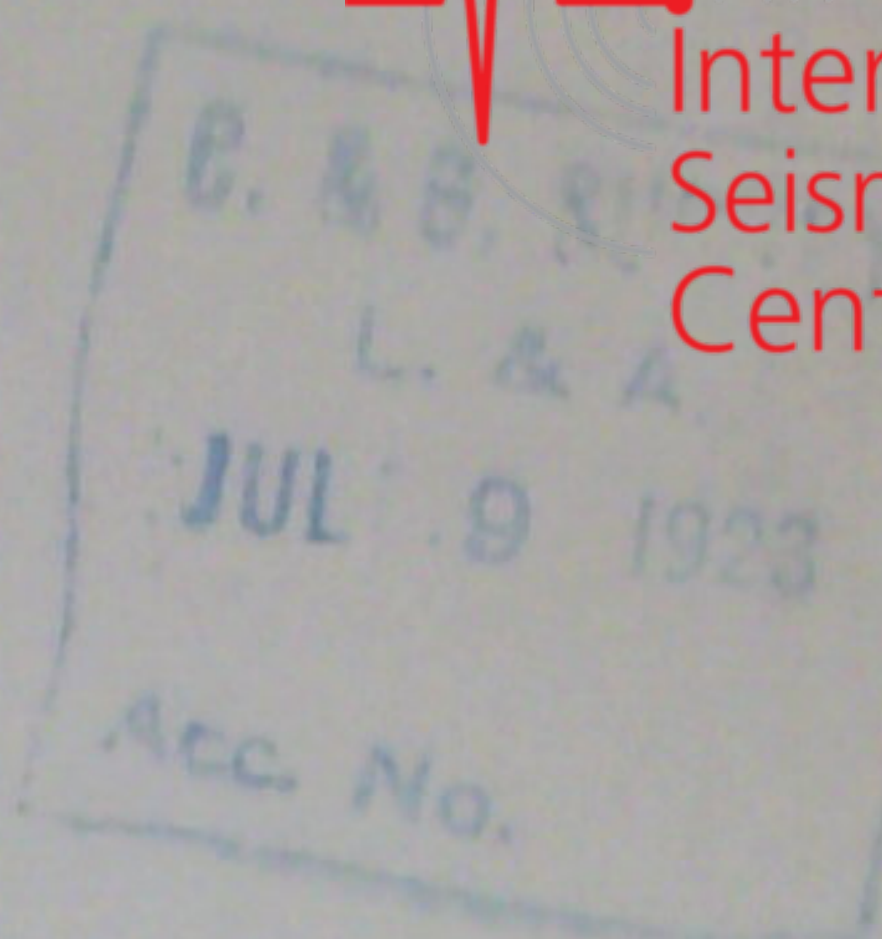
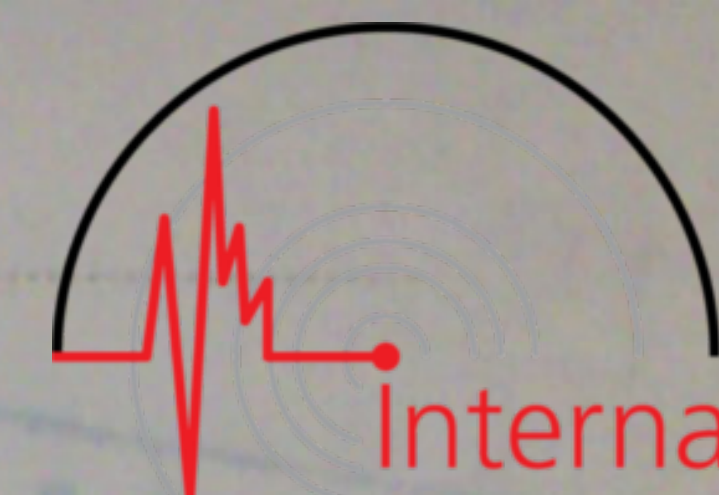
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	Day	Month		h	m	s		s	AN	AE		
62	1		ip	3	16	39.5						
			is		16	48.0						
			MN		16	48.4	0.3	+9				
			ME		16	49.1	0.2			-8		
			ef		18	20.0						
63	1		ip	3	21	39.6						
			is		21	49.0						
			MN		21	50.9	0.4	+9				
			ME		21	51.3	0.3			-11		
			ef		23	45.0						
64	1		ip	6	05	18.7						
			is		05	28.5						
			MN		05	29.4	—	-4				
			ME		05	29.6	—			+7		
			ef		07	40.0						
65	2		ip	16	55	33.0						6950
			is	17	02	59.8						
			eL		11	26.6						
			PR <sub>1</sub>	16	58	08.2						
			ME	17	14	47.2	4.4			+58		
			MN		16	28.6	7.8	+33				
			ME		21	09.4	8.0			+61		
CE		29	51.0	6.3			+25					
ef	18	48	—									





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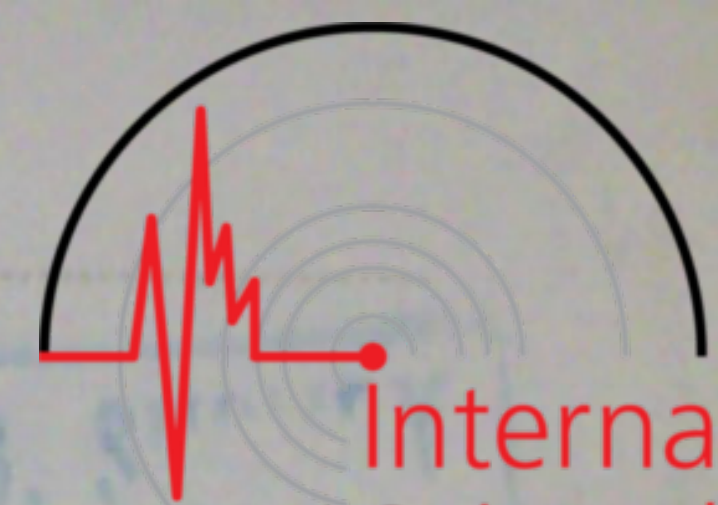
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	Day	Month		h	m	s		AN	AE	Az		
66	3		ip	10	26	44.2		"	"	"	904 <sup>km.</sup>	
			is		28	22.6						
			eMN		28	25.4	0.5	+21				
			eME		28	31.6	0.4		-19			
			eF		29	50.0						
67	4		ip	05	37	17.4		first motion { 0.7 to S 0.5 to W			443	
			is		38	06.7						
			MN		38	09.4	0.3	+31				
			ME		38	15.7	0.4		+28			
			eF		40	10.0						
68	9		ip	17	30	39.8		first motion { 0.45 to E 0.45 to S				
			is		30	56.4						
			ME		31	09.6	0.7		-27			
			MN		31	14.7	0.6	$\pm 29$				
			eF		35	—						
69	11		ip	10	13	32.4		first motion { 10 to E 17 to S			120	
			is		13	48.8						
			ME		13	49.0	0.3		$\pm 242$			
			MN		13	49.7	0.4	+87				
			F		44	35.0						
70	12		ip	05	02	30.2					—	
			is		02	42.8						
			MN		02	49.9	1.1	+43				
			ME		02	50.1	0.8		-38			
			F		11	12.0						





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	Day	Month		h	m	s		AN	AE	Az				
71	12		iP	09	37	51.2	first motion	0.25 to N 0.9 to W			46			
			iS		37	57.4								
			ME		37	57.6							—	+320
			MN		37	57.5							—	-500
			F		40	26.0								
72	12		P	09	44	26.8	6.4	-18			1261			
			eS		46	40.9								
			ME		47	56.0							+26	
			MN		47	32.0							5.7	
			eF	10	05	—								
73	13		iP	03	15	47.2	—	+8			74			
			iS		15	55.6								
			MN		15	56.7								
			ME		15	56.1							-7	
			F		16	58.0								
74	14		iP	10	19	18.4	—	±1			69			
			iS		19	26.8								
			MN		19	27.1								
			ME		19	27.6							±1	
			F		20	09.0								



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75	14		iP	14	09	27.4					26	
			iS		09	31.1						
			MN		09	32.3	—	± 7				
			ME		09	34.0	—		± 7			
			F		10	10.0						
76	14		e	20	49	32.0					—	
			eS		55	11.0						
			ME		56	49.0	3.4		± 21			
			ME	21	05	27.0	3.9		± 44			
			eF		17	41.0						
77	15		iP	05	23	51.9	first motion	{ 0.20 to S 0.35 to W			77	
			iS		24	00.6						
			MN		24	03.2	0.2	+42				
			ME		24	05.0	0.3		-37			
			eF		27	42.0						
78	15		iP	07	10	39.7	First Motion	{ 1.15 to S 0.95 to E			73	
			iS		10	48.0						
			MN		10	48.4	—	-11				
			ME		10	48.9	—		+9			
			F		11	45.0						





# TOKYŌ JAPAN.

JUL 9 1923  
Acc. No.

## SEISMIC BULLETIN

of the Central Meteorological Observatory of Japan.

$\phi = 35^{\circ} 41' 06''$

$\lambda = 139^{\circ} 45' 04''$

h = 21.3 m

Underground : Diluvium (102m)

Instruments : Wiechert Astatic Inverted Pendulum.

Omori Horizontal Pendulum.

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	5.0	3.2	0.0001	145
AE:	50	3.2	0.0001	155
Az:	177	—	0.007	20

No.	Date		Phase	Time			Period	Amplitude			J	Remarks
	Day	Month		h	m	s		AN	AE	Az		
79	16		iP	22	07	59.5					5530	
			iS		15	10.5						
			PR.		09	11.3						
			MN		26	21.0	6.3	±41				
			ME		26	59.9	9.8		±73			
			ME		31	12.2	7.9		±51			
			CE		42	18.5	5.4		±29			
80	17		eF	0	51	—					137	
			iP	12	53	04.4						
	17		iS		53	20.1					137	
			MN		53	20.9	—	+14				
			ME		53	20.6	—		-12			
			F		54	45.0						
			e	08	32	01.0						
82	21		iP	12	19	17.1					263	
			eS		19	46.4						
			MN		19	49.9	0.7	-9				
			ME		19	50.1	0.5		±7			
			eF		21	51.0						
83	21		iP	13	50	47.2					136	
			iS		50	55.6						
			MN		50	56.4	—	+10				
			ME		50	56.1	—		-9			
			F		51	05.0						



# TÔKYÔ JAPAN.



## SEISMIC BULLETIN

of the Central Meteorological Observatory of Japan.

$\phi = 35^{\circ} 41' 06''$

$\lambda = 139^{\circ} 45' 04''$

$h = 21.3$  m

Underground: Diluvium (10 am)

Instruments: Wiechert Astatic Inverted Pendulum.

Omori Horizontal Pendulum.

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	5.0	3.2	0.0001	145
AE:	5.0	3.2	0.0001	155
Az:	17.7	—	0.007	20

No.	Date		Phase	Time			Period	Amplitude			J	Remarks
	Day	Month		h	m	s		AN	AE	Az		
84	22		iP	03	56	49.5		"	"	"	50 <sup>km.</sup>	
			iS		56	56.4						
			MN		56	57.0	—	±2				
			ME		56	57.0	—		+1			
			F		57	12.0						
85	22		iP	07	50	33.0					300	
			eS		52	06.0						
			MN		52	14.0	1.6	±21				
			ME		52	21.0	1.9		±19			
			F		58	25.0						
86	22		iP	08	09	54.2					119	
			iS		10	07.1						
			MN		10	14.4	0.7	±23				
			ME		10	16.3	0.6		+21			
			eF		26	45.0						
87	23		iP	10	57	31.9					70	
			iS		57	41.5						
			MN		57	42.9	0.1	+15				
			ME		57	42.2	0.2		-13			
			eF		59	39.0						
88	24		iP	0	01	29.5					67	
			iS		01	38.5						
			MN		01	39.2	—	±11				
			ME		01	39.7	—		-9			
			F		02	15.0						





# TOKYO JAPAN.

## SEISMIC BULLETIN

of the Central Meteorological Observatory of Japan.

$\phi = 35^{\circ} 41' 06''$

$\lambda = 139^{\circ} 45' 04''$

$h = 21.3 \text{ m}$

Underground: *Diluvium (loam)*

Instruments: Wiechert Astatic Inverted Pendulum.  
Omori Horizontal Pendulum.

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	5.0	3.2	0.0001	145
AE:	5.0	3.2	0.0001	155
Az:	17.7	—	0.007	20

No.	Date		Phase	Time			Period	Amplitude			Δ	Remarks
	Day	Month		h	m	s		AN	AE	Az		
9	24		iP	05	27	32.4					75	
			iS		27	42.6						
			MN		27	43.1	—	± 1				
			ME		27	42.9	—		± 1			
			F		28	10.0						
10	24		eP	12	46	58.0					4690	
			eS		52	26.0						
			PR <sub>1</sub>		48	26.8						
			SR <sub>1</sub>		54	24.9						
			L		56	49.4						
			MN <sub>1</sub>		58	40.5	3.8	+207				
			ME <sub>1</sub>	13	00	43.8	8.4		±234			
			MN <sub>2</sub>	13	00	37.4	6.7	±172				
			ME <sub>2</sub>		03	06.0	8.9		±251			
			MN <sub>3</sub>		02	33.0	5.6	±126				
			CN		09	59.9	5.4	+ 69				
CE		19	01.0	4.2		+ 83						
eF	14	08	—									
11	26		e	06	27	05.8					—	
			eS		27	43.9						
			MN		27	44.2	1.2	-17				
			ME		27	44.8	1.4		+16			
			eF		33	40.0						



# TÔKYÔ JAPAN.



## SEISMIC BULLETIN

of the Central Meteorological Observatory of Japan.

$\varphi = 35^{\circ} 41' 06''$

$\lambda = 139^{\circ} 45' 04''$

$h = 21.3 \text{ m}$

Underground: *Diluvium (loam)*

**Instruments:** Wiechert Astatic Inverted Pendulum.

Omori Horizontal Pendulum.

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	5.0	3.2	0.0001	145
AE:	5.0	3.2	0.0001	155
Az:	17.7	-	0.007	20

No.	Date		Phase	Time			Period	Amplitude			J	Remarks
	Day	Month		h	m	s		AN	AE	Az		
92	27		iP	19	36	12.6					92	
			iS		36	22.8						
			MN		36	23.1	-	$\pm 7$				
			ME		36	23.2	-		+ 8			
			F		37	45.0						
93	28		e	04	38	04.0				-		
94	31		iP	21	54	12.0					74	
			iS		54	22.0						
			MN		54	22.4	-	+12				
			ME		54	22.9	-		-10			
			F		55	25.0						



# TÔKYÔ JAPAN.

## SEISMIC BULLETIN

of the Central Meteorological Observatory of Japan.

$\phi = 35^{\circ} 41' 06''$

$\lambda = 139^{\circ} 45' 04''$

$h = 21.3 \text{ m}$

Underground: *Diluvium (102m)*

Instruments:  Wiechert Astatic Inverted Pendulum.

Omori Horizontal Pendulum.



	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:	50	3.2	0.0001	145
AE:	50	3.2	0.0001	155
$\overline{\text{Az}}$ :	17.7	—	0.007	20

Omori - Pendulum AE

No.	Date		Phase	Time			Period	Amplitude			J	Remarks
	Day	Month		h	m	s		AN	AE	Az		
97	1	April.	iP	00	41	59.9					126 km.	
			iS		42	14.5						
			MN		42	15.4	—	+18				
			ME		42	16.2	—		+14			
			eF		44	50.0						
98	5		iP	02	29	08.0					104	
			iS		29	19.4						
			MN		29	21.1	—	+11				
			ME		29	20.8	—		-13			
			eF		30	50.0						
99	11		e	03	11	20.0				—		
100	12		P	14	39	21.5					178	
			S		39	45.0						
			MN		39	47.1	0.4	+8				
			ME		39	49.4	0.8		-6			
			eF		42	26.0						
101	12		P	15	37	48.4					169	
			S		38	11.3						
			MN		38	11.9	0.9	+10				
			ME		38	12.1	1.1		+11			
			F		40	59.0						



# TÔKYÔ JAPAN.

## SEISMIC BULLETIN

of the Central Meteorological Observatory of Japan.

 $\varphi = 35^{\circ} 41' 06''$ 
 $\lambda = 139^{\circ} 45' 04''$ 
 $h = 21.3 \text{ m}$ 

Underground:

**Instruments:** Wiechert Astatic Inverted Pendulum.  
Omori Horizontal Pendulum.

	$T_0$	$\epsilon$	$\frac{r}{T_0^2}$	V
AN:				
AE:				
Az:				

No.	Date		Phase	Time			Period	Amplitude			$\Delta$ km.	Remarks
	Day	Month		h	m	s		AN	AE	Az		
102	13		eP	13	38	120					220	
			eS		38	360						
			MN		38	37.1	0.8	+2				
			ME		38	37.4	0.4		-1			
			F		39	47.0						
103	13		e	15	36	410					3110	
			eS		41	320						
			eL		43	550						
			ME		46	09.0	0.9		+48			
			MN		46	11.0	1.1	-41				
104	14		iP	08	45	220					70	
			iS		45	30.5						
			MN		45	31.8	—	+8				
			ME		45	31.9	—		+9			
			eF		46	04.0						
105	14		iP	09	39	230					60	
			iS		39	30.0						
			MN		39	36.0	—	+11				
			ME		39	38.0	—		-8			
			eF		40	35.0						
106	14		iP	18	46	360					120	
			eS		46	49.0						
			MN		46	58.0	—	$\pm 11$				
			ME		46	57.0	—		-9			
			eF		48	50.0						



No. 23

from \_\_\_\_\_ to \_\_\_\_\_

# TÔKYÔ JAPAN.

## SEISMIC BULLETIN

of the Central Meteorological Observatory of Japan.

 $\varphi = 35^{\circ} 41'' 06''$  $\lambda = 139^{\circ} 45'' 04''$ 

h = 21.3 m

Underground :

Instruments : Wiechert Astatic Inverted Pendulum.

Ômori Horizontal Pendulum.

	$T_0$	$\varepsilon$	$\frac{r}{T_0^2}$	V
AN:				
AE:				
Az:				

No.	Date		Phase	Time			Period	Amplitude			J	Remarks
	Day	Month		h	m	s		AN	AE	Az		
107	16		e	08	59	45.0						
108	16		P	15	11	14.0				230		
			eS		11	45.0						
			MN		11	47.0	7.1	$\pm 13$				
			ME		11	49.0	0.9		-14			
			eF		18	—						
109	17		e	11	13	41.0						
110	19		e	03	18	—						
111	19		iP	06	15	04.2				32		
			iS		15	08.6						
			MN		15	09.1	—	-17				
			ME		15	09.2	—		+16			
			eF		16	19.0						
112	23		eP	03	19	58.0				3153		
			eS		24	19.0						
		eL	MN		26	09.5						
			MN		27	50.8	5.9	+109				
			ME		28	10.0	5.6		-114			
			eF	04	20	—						