



始



地震觀測錄

(其六)

埼玉縣熊谷測候所

調查報告第二十九号 昭和五年自一月至四月

4.6
245

調査報告 第二十九號

地震觀測錄

(其六ノ一)

昭和五年自一月至四月

埼玉縣熊谷測候所

the
Seismological Bulletin
of
the Kumagaya
Meteorological Observatory

KUMAGAYA JAPAN

No. 29

From January to April, 1931.

14.6 = -245

KUMAGAYA JAPAN

Seismological Bulletin

of the Kumagaya Meteorological Observatory of Japan

$\phi = 36^{\circ}09'$ $\lambda = 139^{\circ}23'$ $h = 30.2m$

Wiechert's Seismograph.
(Horizontal & Vertical)

Omori's Seismograph.
(Horizontal Pendulum)

C. M. O. Seismograph.
(Horizontal & Vertical)

	T_0	ϵ	$\frac{r}{T_0^2}$	V
AN :	6.5	5.2	0.011	89
AE :	5.1	5.1	0.017	89
Az :	3.5	1.9	0.005	48

	T_0	ϵ	$\frac{r}{T_0^2}$	V
AN :	23.0	1.4	0.001	10
AE :	27.0	1.9	0.0004	10

	T_0	ϵ	$\frac{r}{T_0^2}$	V
AN :	3.5		0.004	2
AE :	3.5		0.004	2
Az :	5.0		0.003	3

1930 NO.	Month	Day	Phase	Time			Period	Amplitude			Preliminary Tremor s.	Remarks
								AE	AN	Az		
								μ	μ	μ		
1	Jan.	2	P	9	24	44.4						
			S	9	24	57.4						
			MN	9	25	0.2	0.7	+ 1		13.0		
			ME	9	25	04.9	1.1	- 2				
			F	9	26	35.5						
2	Jan.	3	P	11	05	51.5					9.8	
			S	11	06	01.3						
			ME	11	06	01.3	0.7	+ 7				
			MN	11	06	01.6	0.6	+ 9				
			F	11	07	19.3						
3	Jan.	3	P	20	54	47.8					14.4	
			S	20	55	02.2						
			ME	20	55	03.0	0.7	+ 6				
			Mz	20	55	04.7	0.6			- 2		
			MN	20	55	05.8	0.9	+ 6				
F	20	57	10.8									
4	Jan.	5	P	10	23	43.8					188.6	
			S	10	26	52.4						
			MN	10	27	02.6	6.1	- 67				
			Mz	10	27	05.8	5.2			+ 91		
			ME	10	27	52.1						
F	10	40	15.1									
5	Jan.	6	P	3	54	58.9					114.8	
			S	3	56	53.7						
			MN	3	57	09.1	1.6	+ 27				



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1930 NO.	Month	Day	Phase	Time h. m. s.			Period s.	Amplitude			Preliminary Tremors s.	Remarks
								Az	AN	AE		
								μ	μ	μ		
5	Jan.		ME	3	57	09.8	1.7	+26				
			Mz	3	57	13.3	2.2			-22		
			F	4	02	36.3						
6	Jan.	6	P	8	07	11.8				22.8	人身感覺	微
			S	8	07	34.6						
			MN	8	07	43.2	1.2	+25				
			ME	8	07	50.0	1.0	+44				
			Mz	8	07	52.8	0.7				-20	
			F	8	11	42.1						
7	Jan.	6	P	21	25	46.4	0.5			8.0	人身感覺	微
			S	21	25	54.4						
			ME	21	25	54.4	0.6	+13				
			MN	21	25	54.4	0.6			-34		
			Mz	21	25	54.4	0.7				-10	
8	Jan.	6	P	21	27	24.8				7.8		
			S	21	27	32.6						
			ME	21	27	32.6		+1				
			MN	21	27	32.6	0.6			-3		
			F	21	28	07.4						
9	Jan.	11	P	3	16	14.9				172.5		
			S	3	19	07.4						
			ME	3	19	12.2	3.0	-5				
			MN	3	19	14.5	4.1			-2		
			Mz	...	...	...	3.0				±2	
10	Jan.	11	P	16	14	05.0		+1.4	+0.3	13.6	人身感覺	微
			S	16	14	18.6						
			ME	16	14	19.0	0.9	-36				
			MN	16	14	24.8	0.6			+42		
			Mz				±5	
11	Jan.	12	P	6	22	28.3				71.9	普通地震計=感ズ	
			S	6	23	40.2						
			MN	6	23	43.7	1.0			-24		
			ME	6	23	44.5	0.9	-25				
			Mz				-6	

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1930 NO.	Month	Day	Phase	Time h. m. s.			Period s.	Amplitude			Preliminary Tremors s.	Remarks
								Az	AN	AE		
								μ	μ	μ		
12	Jan.	12	P	20	03	57.4				16.0		
			S	20	04	13.4						
			Mz	20	04	13.4	0.6				-2	
			ME	20	04	14.5	0.6			-3		
			MN	20	04	14.8	0.7				-2	
13	Jan.	14	P	3	40	38.1				7.9		
			S	3	40	46.0						
			ME	3	40	46.0	0.6	+8				
			MN	3	40	46.3	0.6				-4	
			F	3	41	43.2						
14	Jan.	18	P	16	11	57.4				P-S 436.3		
			S	16	19	13.7					S-L 174.6	
			L	16	22	08.3						
			ME	16	23	12.0	7.4	±2				
			MN	16	25	14.5	7.2			±1		
15	Jan.	19	P	15	50	14.9				18.1		
			S	15	50	33.0						
			MN	15	50	33.0	0.6			+6		
			ME	15	50	33.6	0.7			-9		
			Mz	15	50	35.0	0.7				-4	
16	Jan.	21	P	13	28	31.9				25.7		
			S	13	28	57.6						
			ME	13	29	03.6	1.3	+5				
			MN	13	29	10.9	1.4				-5	
			Mz	13	29	21.1	2.2				+3	
17	Jan.	21	P	22	09	29.4				49.0		
			S	22	10	18.4						
			ME	22	10	23.3	1.1	+10				
			Mz	22	10	25.0	1.6					-3
			MN	22	10	38.7	1.1				+5	
18	Jan.	21	P	23	00	37.8				69.8		
			S	23	01	47.6						
			ME	23	02	01.4	2.1			-6		

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1930 NO.	Month	Day	Phase	Time			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE μ	AN μ	Az μ		
			MN	23	02	02.7	2.1		- 6			
			Mz	23	02	08.6	1.8			- 3		
			F	23	05	51.2						
19	Jan.	23	P	7	49	28.4					34.9	
			S	7	50	03.3						
			Mz	7	50	05.7	1.7			± 2		
			MN	7	50	06.8	1.7		- 5			
			ME	7	50	11.3	1.7	+ 8				
			F	7	53	02.0						
20	Jan.	25	P	13	48	19.5					24.0	
			S	13	48	43.5						
			MN	13	48	54.0	1.1		- 1			
			ME	...	...	...	0.7	± 1				
			F	13	50	06.5						
21	Jan.	25	P	20	42	39.4					21.0	
			S	20	43	0.4						
			ME	20	43	12.3	0.6	+ 32				
			MN	20	43	19.9	1.0		- 20			
			Mz	20	43	29.5	1.1			- 13		
			F	20	47	09.5						
22	Jan.	27	P	7	56	0.6					14.5	
			S	7	56	15.1						
			ME	7	56	15.1	0.6	+ 2				
			MN	7	56	15.1	0.6		+ 2			
			F	7	57	30.4						
23	Jan.	27	P	19	37	37.9					10.6	
			S	19	37	48.5						
			ME	19	37	54.1	0.7	- 6				
			Mz	19	37	55.7	0.7			- 5		
			MN	19	37	55.9	1.1		- 9			
			F	19	40	29.8						
24	Jan.	29	P	20	14	03.8						
			S	20	17	04.1						
			L	20	17	45.6						
			MN	20	17	45.8	2.8		- 5			
			ME	20	18	0.7	2.9	+ 23				
			F	20	19	56.6						

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1930 NO.	Month	Day	Phase	Time			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE μ	AN μ	Az μ		
25	Jan.	31	P	2	40	33.8					14.1	
			S	2	40	47.9						
			ME	2	40	57.6	0.8	+ 1				
			MN	2	41	01.0	0.9		- 1			
			F	2	42	18.5						
26	Jan.	31	P	3	20	15.9					69.0	
			S	3	21	24.9						
			MN	3	21	31.3						
			ME	3	21	34.6	1.5		+ 6			
			Mz	3	21	36.4	1.1	- 13				
			F	3	24	14.4	1.4			- 4		

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of the Kumagaya Meteorological Observatory of Japan

$\phi=36^{\circ}09'$ $\lambda=139^{\circ}23'$ $h=30.2m$

Wiechert's Seismograph.
(Horizontal & Vertical)

	T_0	ϵ	$\frac{r}{T_0^2}$	V
AN :	6.5	5.2	0.011	89
AE :	5.1	5.1	0.017	89
Az :	3.5	1.9	0.005	48

Omori's Seismograph.
(Horizontal Pendulum)

	T_0	ϵ	$\frac{r}{T_0^2}$	V
AN :	20.0	1.4	0.001	10
AE :	27.0	1.9	0.0004	10

C. M. O. Seismograph.
(Horizontal & Vertical)

	T_0	ϵ	$\frac{r}{T_0^2}$	V
AN :	3.5		0.004	2
AE :	3.5		0.004	2
Az :	5.0		0.003	3

1930 NO.	Month	Day	Phase	Time (135°E. M. T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ		μ	μ	μ		
27	Feb.	1	P	13	34	55.1	1.7	- 2		41.5		
			S	13	35	36.6						
			MN	13	36	02.8						
			ME	13	36	08.9						
			F	13	38	31.4						
28	Feb.	2	P	8	07	45.4	1.1	-61		28.3	普通地震計ニ感ズ	
			S	8	08	13.7						
			ME	8	08	28.4						
			MN	8	08	29.7						
			Mz	8	08	31.1						
F	8	12	11.4									
29	Feb.	3	P	0	02	35.6	7.0	± 4		第-308.7 第-256.0		
			S	0	07	44.3						
			L	0	12	0.3						
			ME	0	21	12.0						
			MN	0	22	04.4						
F	0	52	43.3									
30	Feb.	3	P	6	01	54.1	0.8	+35	-29	15.6	町内ニテハ感ツタル人モアリ	
			S	6	02	09.7						
			MN	6	02	12.3						
			ME	6	02	19.1						
			Mz	6	02	45.7						
F	6	06	36.1									
31	Feb.	4	P	15	06	14.0	1.2	+19		20.3	普通地震計ニ感ズ	
			S	15	06	34.3						

1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ		μ	μ	μ		
			ME	15	06	47.1	0.8	+ 5				
			MN	15	06	47.1						
			Mz	15	06	52.8						
			F	15	09	02.4						
32	Feb.	5	P	12	59	53.2	1.1	- 4		35.0		
			S	13	00	28.2						
			Mz	13	00	29.2						
			MN	13	00	33.8						
			ME	13	00	41.8						
F	13	03	59.0									
33	Feb.	6	P	16	05	27.0	0.8	- 2		9.2		
			S	16	05	36.2						
			MN	16	05	41.2						
			ME	16	05	43.7						
			F	16	06	32.7						
34	Feb.	7	P	17	42	44.1	3.8	-54		61.3		
			S	17	43	45.4						
			ME	17	44	39.0						
			MN	17	44	42.0						
			Mz	17	44	53.6						
F	17	58	28.4									
35	Feb.	11	P	9	13	08.7	2.1	+81	-0.0	59.6		
			S	9	14	08.3						
			MN	9	14	13.3						
			ME	9	14	24.1						
			Mz	9	15	53.4						
F	4	23	13.7									
36	Feb.	11	P	15	03	53.7	0.9	+ 3		16.1		
			S	15	04	09.8						
			ME	15	04	18.1						
			MN	15	04	18.1						
			F	15	05	42.3						
37	Feb.	14	P	2	20	08.3	0.9	+10		12.0		
			S	2	20	20.3						
			MN	2	20	20.6						
			ME	2	20	20.8						
			Mz	2	20	26.1						
F	2	22	02.1									

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1931 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude			Preliminary Tremors* s.	Remarks
				h.	m.	s.		AE μ	AN μ	Az μ		
38	Feb.	14	P	21	46	38.6				34.4		
			S	21	47	13.0						
			MN	21	47	14.0	1.1		- 1			
			ME	21	47	29.9	1.0	+ 1				
			F	21	48	34.6						
39	Feb.	15	P	1	12	56.1			+6.1	8.5	普通地震計=感ズ	
			S	1	13	04.6		-35	- 8			
			ME	1	13	04.6	0.7	-35				
			M	1	13	06.3	0.7		- 9			
			Mz	1	13	06.3	0.5			-10		
40	Feb.	15	P	3	50	50.3				40.0		
			S	3	51	30.3						
			MN	3	51	30.9	1.9		- 1			
			Mz	3	51	34.4	1.2	+ 1				
			F	3	53	32.0						
41	Feb.	15	P	10	26	10.5				97.9		
			S	10	27	48.4						
			ME	10	27	57.1	1.4	+13				
			MN	10	27	57.1	1.5		+17			
			Mz	10	28	24.5	1.4			- 4		
42	Feb.	17	P	20	32	11.3				10.7		
			S	20	32	22.0						
			ME	20	32	22.0	0.7	+ 4				
			MN	20	32	22.0	0.6		+ 2			
			F	20	33	01.0						
43	Feb.	19	P	1	28	12.2				8.9	初發不明瞭	
			S	1	28	21.1						
			MN	1	28	21.1	...		+ 1			
			ME	1	28	28.2	...	- 1				
			F	1	28	56.3						
44	Feb.	19	P	10	48	39.9				16.2		
			S	10	48	56.1						
			ME	10	48	56.8	0.7	- 8				
			MN	10	48	56.8	0.7		+ 8			
			F	10	50	35.6						

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1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE μ	AN μ	Az μ		
45	Feb.	19	P	16	47	0.5				16.2		
			S	16	47	16.7						
			ME	16	47	17.7	0.8	+ 8				
			MN	16	47	17.7	0.8		- 3			
			Mz	...	...	...	...			± 1	
46	Feb.	19	P	23	26	42.3				14.6		
			S	23	26	56.9						
			ME	23	26	57.1	0.7	- 8				
			MN	23	26	58.2	0.7		- 3			
			F	23	27	42.2						
47	Feb.	19	P	23	56	47.2				7.7	初發不明瞭	
			S	23	56	54.9						
			ME	23	56	55.7	0.6	± 1				
48	Feb.	20	P	11	29	11.6				15.4		
			S	11	29	27.0						
			ME	11	29	27.6	0.9	-11				
			MN	11	29	28.2	0.7		- 6			
			Mz	11	29	28.7	0.9			+ 2		
49	Feb.	20	P	13	46	31.3				16.6		
			S	13	46	47.9						
			ME	13	46	48.9	1.1	+13				
			MN	13	46	49.3	0.8		- 8			
			Mz	13	46	49.3	0.8			- 2		
50	Feb.	20	P	18	08	16.2				19.9		
			S	18	08	36.1						
			MN	18	08	44.4	0.7		+ 1			
			ME	18	08	53.6	0.8	+ 2				
			F	18	09	35.8						
51	Feb.	21	P	4	07	12.0				12.2	初發不明瞭	
			S	4	07	24.2						
			ME	4	07	32.9	0.8	+ 2				
			MN	4	07	32.9	0.7		- 2			
			F	4	07	58.2						

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1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
52	Feb.	21	P	8	37	20.5		+2.2	+8.7	+25.2	16.4	人身感覺 微
			S	8	37	36.9		+8.3	-3.9	+2.1		
			ME	8	37	37.5	1.1	-147				
			MN	8	37	37.5	0.9		-98			
			Mz	8	37	43.3	1.6			-25		
			F	8	48	36.2						
53	Feb.	21	P	10	01	12.8				16.6		
			S	10	01	29.4						
			ME	10	01	29.4	0.7	-7				
			MN	10	01	30.3	0.8		+2			
			F	10	02	58.8						
54	Feb.	21	P	22	08	36.3				19.1	初發不明瞭	
			S	22	08	55.4						
			ME	22	08	56.3	0.9	+2				
			MN	...	...	...	0.8		±1			
			F	22	09	34.4						
55	Feb.	21	P	22	10	08.2				15.7		
			S	22	10	23.9						
			ME	22	10	24.4	0.8	+1				
			MN	22	10	24.7	1.0		+1			
			F	22	10	57.1						
56	Feb.	21	P	22	12	31.4				15.7		
			S	22	12	47.1						
			MN	22	12	47.7	0.9		-4			
			ME	22	12	48.3	1.0	-9				
			F	22	14	22.1						
57	Feb.	21	P	22	44	57.7				15.6		
			S	22	45	13.3						
			ME	22	45	13.8	0.8	-7				
			MN	22	45	14.5	0.7		-3			
			F	22	46	02.8						
58	Feb.	22	P	6	55	25.0				16.7		
			S	6	55	41.7						
			ME	6	55	43.2	0.7	+10				
			MN	6	55	43.2	0.7		-7			
			Mz	0.7					±2
			F	6	58	09.3						

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1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
59	Feb.	22	P	8	30	12.7				14.0		
			S	8	30	26.7						
			ME	8	30	27.1	0.7	+2				
			MN	8	30	27.1	0.9		-1			
			F	8	31	07.7						
60	Feb.	22	P	9	08	40.1				16.3		
			S	9	08	56.4						
			ME	9	08	57.9	0.7	+9				
			MN	9	08	57.9	0.6		+4			
			Mz	9	09	02.1	0.9					+2
			F	9	10	41.7						
61	Feb.	22	P	12	50	03.7				16.2		
			S	12	50	19.9						
			ME	12	50	21.5	1.1	+7				
			MN	12	50	21.5	1.0		-5			
			F	12	51	31.8						
62	Feb.	22	P	12	51	52.2				16.1		
			S	12	52	08.3						
			ME	12	52	08.7	1.1	-1				
			MN	12	52	08.7	1.1		-1			
			F	12	52	41.6						
63	Feb.	22	P	14	48	28.9		+0.0	+1.1	+4.9	16.6	
			S	14	48	45.5						
			ME	14	48	46.1	0.9	-25				
			MN	14	48	46.6	0.9		-19			
			Mz	14	48	46.6	0.9			-4		
			F	14	54	31.6						
64	Feb.	22	P	18	22	04.4				16.8		
			S	18	22	21.2						
			ME	18	22	21.9	0.9	-3				
			MN	18	22	22.3	0.7		-4			
			F	18	23	44.7						
65	Feb.	22	P	20	22	15.7		+1.1	+8.8	+25.2	16.4	普通地震計=感ズ
			S	20	22	32.1						
			ME	20	22	32.5	1.0	+78				
			MN	20	22	33.6	0.7		-70			
			Mz	20	22	34.8	1.6			+22		
			F	20	35	31.1						

町内ニテハ感シタル人モアリ

Seismological Bulletin

1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
66	Feb.	22	P	20	39	21.4	0.8	- 1	+ 1	16.5		
			S	20	39	37.9						
			MN	20	39	44.7						
			ME	20	39	53.6						
			F	20	4)	38.0						
67	Feb.	23	P	10	22	07.7	1.1	- 4	0.9	16.4		
			S	10	22	24.1						
			ME	10	22	25.0						
			MN	10	22	25.0						
			F	10	24	29.4						
68	Feb.	23	P	19	15	55.9	1.1	+ 4	1.4	93.3		
			S	19	17	29.2						
			MN	19	17	54.4						
			ME	19	18	0.0						
			Mz	...	...	...			
F	19	21	54.5									
69	Feb.	24	P	5	18	17.1	0.7	+44	+1.0 +0.0 -18.5	8.3	人身感覺 弱(弱キ方)	
			S	5	18	25.4						
			ME	5	18	25.4						
			MN	5	18	25.4						
			Mz	5	18	25.4						
F	5	21	45.7									
70	Feb.	24	P	5	53	28.8	0.8	+ 2	0.8	16.7		
			S	5	53	45.5						
			ME	5	53	45.9						
			MN	5	53	45.9						
			F	5	54	22.7						
71	Feb.	24	P	19	15	08.1	0.7	- 8	0.8	13.2		
			S	19	15	21.3						
			ME	19	15	22.1						
			MN	19	15	22.6						
			F	19	16	10.7						
72	Feb.	24	P	19	49	03.6	0.8	- 2	0.8	68.9		
			S	19	50	12.5						
			ME	19	50	13.4						
			MN	19	50	36.2						
			F	19	53	07.3						

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1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
73	Feb.	25	P	5	58	0.9	2.4	- 3	2.8	164.6	第一 第二	
			L	6	00	45.5						
			ME	6	00	48.8						
			MN	6	01	26.4						
			F	6	10	04.1						
74	Feb.	26	P	4	42	02.9	0.5	- 8	0.6	16.1		
			S	4	42	19.0						
			ME	4	42	19.3						
			MN	4	42	19.5						
			F	4	43	05.3						
75	Feb.	27	P	14	05	14.3	0.6	+19 + 8	0.6	9.9	普通地震計=感ズ	
			S	14	11	24.2						
			ME	14	05	24.2						
			MN	14	05	24.4						
			Mz	14	05	25.4						
F	14	06	54.7									
76	Feb.	28	P	21	10	50.5	0.9	-20	0.9	15.5		
			S	21	11	06.0						
			ME	21	11	06.4						
			MN	21	11	07.3						
			Mz	21	11	16.4						
F	21	12	52.0									
77	Feb.	28	P	18	29	11.7	0.8	-22	0.9	16.3		
			S	18	29	28.0						
			ME	18	29	28.7						
			MN	18	29	29.2						
			Mz	18	29	38.8						
F	18	31	09.8									
78	Feb.	28	P	18	31	19.0	1.0	+1.1 +7.7 -5.0	1.0	16.5	普通地震計=感ズ	
			S	18	31	35.5						
			ME	18	31	36.0						
			MN	18	31	36.0						
			Mz	18	31	36.0						
F	18	31	36.0									
79	Feb.	28	P	18	32	57.7	0.6	+17 - 4	0.6	16.2	普通地震計=感ズ	
			S	18	33	13.9						
			ME	18	33	14.4						
			MN	18	33	14.8						
			Mz						
F									

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1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude μ			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
										μ		
79			F	18	36	29.5						
80	Feb.	28	P	18	46	53.4						
			S	18	47	01.4						
			ME	18	47	01.4	0.5	+ 4				
			MN	18	47	01.4	0.7	- 7				
			F	18	47	42.2						

KUMAGAYA JAPAN

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of the Kumagaya Meteorological Observatory of Japan

 $\varphi=36^{\circ}09'$ $\lambda=139^{\circ}23'$ $h=30.3m$ Wiechert's Seismograph.
(Horizontal & Vertical)Omori's Seismograph.
(Horizontal Pendulum)C. M. O. Seismograph.
(Horizontal & Vertical)

	T_0	ε	$\frac{r}{T_0^2}$	V
AN :	6.5	5.2	0.011	89
AE :	5.1	5.1	0.017	89
Az :	3.5	1.9	0.005	48

	T_0	ε	$\frac{r}{T_0^2}$	V
AN :	23.0	1.4	0.001	10
AE :	27.0	1.9	0.0004	10

	T_0	ε	$\frac{r}{T_0^2}$	V
AN :	3.5		0.004	2
AE :	3.5		0.004	2
Az :	5.0		0.003	3

1930 NO.	Month	Day	Phase	Time (135°E. M. T.)			Period s.	Amplitude μ			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
										μ		
81	March.	1	P	22	38	3.8					16.2	
			S	22	38	20.0						
			ME	22	38	21.0	0.9	-23				
			MN	22	38	21.8	0.8		- 8			
			Mz	22	38	29.2	0.6			- 4		
			F	22	40	43.2						
82	March.	1	P	23	51	43.2					13.1	
			S	23	51	56.3						
			ME	23	51	56.5	0.7	- 3				
			MN	23	51	56.9	0.7		- 2			
			F	23	52	36.2						
83	March.	1	P	23	56	51.7					14.9	
			S	23	57	6.6						
			ME	23	57	7.1	0.6	- 4				
			MN	23	57	8.0	0.6		- 1			
			F	23	58	0.0						
84	March.	1	P	23	59	30.5					15.5	
			S	23	59	46.0						
			ME	23	59	46.3	0.9	- 1				
			MN	23	59	46.8		- 1			
			F	2	0	20.3						
85	March.	2	P	2	43	51.8				-9.2	13.1	
			S	2	43	4.9						
			ME	2	43	6.9	0.5	-36				
			MN	2	43	7.3	0.9		+67			

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1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks	
				h.	m.	s.		AE μ	AN μ	Az μ			
85	March.		Mz	2	43	11.9	0.9						
			F	2	48	11.5		+25					
86	March.	2	P	12	27	7.6	0.9				16.9		
			S	12	27	24.5		+2.0					
			ME	12	27	25.2		-33					
			MN	12	27	25.9		0.9	-11				
			Mz	12	17	30.4		0.8	- 6				
			F	12	29	3.6							
87	March.	3	P	0	30	37.6	1.5				16.4	不明瞭	
			ME	...	...	...		± 2		
			MN	...	...	...		1.8	± 2	
88	March.	3	P	21	14	44.8	1.3				16.4		
			S	21	15	1.2		+15.3 -4.4					
			ME	21	15	2.1		-54					
			MN	21	15	2.9		1.1	+47				
			Mz	21	15	2.9		0.6	- 6				
			F	21	17	40.8							
89	March.	3	P	21	26	15.3	0.8				16.4	初發不明瞭	
			S	21	26	31.7		- 2					
			ME	21	26	31.7		± 2					
			MN	...	...	...				
			F	21	27	23.9							
90	March.	3	P	21	28	42.8	0.7				14.6		
			S	21	28	57.4		- 3					
			ME	21	28	57.8		- 3					
			MN	21	28	58.8		- 3					
			F	21	29	52.4							
91	March.	3	P	21	30	23.7	0.9				16.2	初發不明瞭	
			S	21	30	39.9		+ 1					
			ME	21	30	39.9		- 1					
			MN	21	30	39.9		- 1					
			F	21	31	12.4							
92	March.	3	P	21	52	3.4	1.0				16.4	初發不明瞭	
			S	21	52	19.8		± 2					
			ME		± 1					
			MN							
			F	21	52	52.3							

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1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE μ	AN μ	Az μ		
93	March.	3	P	21	55	33.8	1.0				15.2	初發不明瞭
			S	21	55	49.0		± 1				
			ME	...	...	...		± 2		
			MN	...	...	...			
94	March.	3	P	22	04	38.2	0.9				15.4	
			S	22	04	53.6		-25				
			ME	22	04	54.0		-13				
			MN	22	04	54.7		+ 4				
			Mz	22	04	55.4						
			F	22	06	52.3						
95	March.	3	P	22	55	28.7	0.9				16.3	
			S	22	55	45.0		-39				
			ME	22	55	46.1		-24				
			MN	22	55	46.7		- 4				
			Mz	22	55	46.7						
			F	22	58	11.1						
96	March.	4	P	2	06	52.3	0.9				16.4	
			S	2	07	8.7		-13				
			ME	2	07	9.7		- 5				
			MN	2	07	10.1						
			F	2	08	41.4						
97	March.	4	P	2	25	10.9	0.9				14.9	
			S	2	25	25.8		- 4				
			ME	2	25	26.3		- 2				
			MN	2	25	26.3						
			F	2	26	6.1						
98	March.	4	P	3	50	55.8	0.9				16.5	
			S	3	51	12.3		+2.2				
			ME	3	51	13.0		-52				
			MN	3	51	13.5		-41				
			Mz	3	51	15.8		+16				
			F	3	55	21.0						
99	March.	4	P	5	11	22.0	1.2				15.8	
			S	5	11	37.8		+5.3 +19.3 +48.6				
			ME	5	11	38.8		-113				
			MN	5	11	39.5		-85				
			Mz	5	11	41.0		+55				
			F	5	11	41.0						

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1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ		μ	μ	μ		
99	March.	4	F	5	19	50.8						
100	March.	4	P	5	51	59.6					16.4	
			S	5	52	16.0						
			ME	5	52	16.3	0.9	+10				
			MN	5	52	16.3	0.9		- 3			
			F	5	53	23.3						
101	March.	4	P	6	18	41.2					14.8	初發不明瞭
			S	6	18	56.0						
			ME	6	18	56.7	1.0	+ 2				
			MN	...	...	...	1.0		± 1			
			F	6	19	22.0						
102	March.	4	P	23	16	45.6					14.3	
			S	23	16	59.9						
			ME	23	17	0.9	1.0	- 8				
			MN	23	17	1.7	1.0		- 8			
			F	23	18	15.6						
103	March.	4	P	23	43	15.2					12.8	初發不明瞭
			S	23	43	28.0						
			ME	23	43	28.4	1.1	- 2				
			MN	23	43	28.4	1.0		- 1			
			F	23	43	51.8						
104	March.	4	P	23	48	55.0					15.7	
			S	23	49	10.7						
			ME	23	49	12.0	0.9	-15				
			MN	23	49	12.4	1.0		- 8			
			Mz	...	...	...	1.3		± 4			
			F	23	50	58.8						
105	March.	4	P	23	54	55.2					28.5	初發極メテ不明瞭
			S	23	55	23.7						
			ME	23	55	24.2	0.9	+ 2				
			MN	23	55	24.2	0.8		- 2			
			F	23	56	46.9						
106	March.	4	P	23	58	58.7					16.6	
			S	23	59	15.3						
			ME	23	59	16.2	0.9	+ 3				
			MN	23	59	16.2	1.0		- 2			
			Th	5	0	19.1						

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1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ		μ	μ	μ		
107	March.	5	P	0	08	49.2					16.4	
			S	0	09	5.6						
			ME	0	09	6.9	1.0	-31				
			MN	0	09	7.1	1.0		-25			
			Mz	0	09	9.3	1.3		+ 9			
			F	0	12	25.6						
108	March.	5	P	2	20	58.8					10.8	初發不明瞭
			S	2	21	9.6						
			MN	2	21	9.6	0.8		+ 2			
			ME	2	21	10.0	0.7	+ 2				
			F	2	21	48.3						
109	March.	5	P	23	16	30.0					16.4	
			S	23	16	46.4						
			ME	23	16	46.7	0.7	- 1				
			MN	...	...	...	0.7		± 1			
			F	23	18	42.6						
110	March.	6	P	1	00	21.4					16.3	
			S	1	00	37.7						
			ME	1	00	39.2	1.1	-11				
			MN	1	00	39.2	1.1		- 9			
			Mz	1	00	44.2	0.9		- 3			
			F	1	03	9.2						
111	March.	6	P	1	17	32.9					16.8	
			S	1	17	49.7						
			ME	1	17	50.2	0.7	+ 3				
			MN	1	17	50.2	1.2		- 3			
			F	1	18	52.8						
112	March.	6	P	1	20	57.2					16.3	初發不明瞭
			S	1	21	13.5						
			ME	1	21	13.8	0.9	+ 3				
			MN	1	21	13.8	0.8		- 2			
			F	1	21	50.6						
113	March.	6	P	1	22	16.3					15.6	
			S	1	22	31.9						
			ME	1	22	32.3	0.8	+ 4				
			MN	1	22	32.3	0.9		- 2			
			F	1	23	30.2						

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1930 NO.	Month	Day	Phase	Time (135°E.M.T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
114	March	6	P	1	35	44.1				16.2		
			S	1	33	0.3						
			ME	1	33	0.8	0.9	- 4				
			MN	1	36	3.3	0.9		+ 3			
			F	1	37	19.9						
115	March	6	P	1	43	33.8				16.3	初發不明瞭	
			S	1	43	50.1						
			ME	1	43	50.6	1.0	- 2				
			MN	1	43	51.1	1.0		- 2			
			F	1	44	32.1						
116	March	6	P	1	53	4.4				16.1		
			S	1	53	20.5						
			ME	1	53	21.9	0.6	+11			+2.9	
			MN	1	53	21.9	1.1		- 8			
			Mz	1	53	30.6	0.9				+ 2	
F	1	55	16.6									
117	March	6	P	10	00	53.6				16.2		
			S	10	01	9.8						
			ME	10	01	10.8	0.8	+ 2				
			MN	10	01	10.8	1.0		- 2			
			F	10	01	58.3						
118	March	6	P	12	33	36.0				97.6		
			S	12	35	13.6						
			ME	12	35	19.3	0.8	+35				
			MN	12	35	20.2	1.5		+31			
			Mz	12	35	23.5	1.3				-13	
F	12	45	40.1									
119	March	7	P	1	00	45.7				16.8	初發不明瞭	
			S	1	01	2.5						
			ME	1	01	2.8	1.0	- 8				
			MN	1	01	3.3	0.8		- 3			
			F	1	01	37.8						
120	March	7	P	1	00	55.1				16.3	初發不明瞭	
			S	1	01	11.4						
			ME	1	01	12.5	1.1	- 2				
			MN	1	01	12.9	1.3		- 2			
			F	1	01	48.1						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
121	March	7	P	1	07	37.4				16.4		
			S	1	07	53.8						
			ME	1	07	54.1	0.8	- 5				
			MN	1	07	54.1	1.0		+ 2			
			F	1	09	1.6						
122	March	7	P	15	13	37.2				16.3		
			S	15	13	53.5						
			ME	15	14	3.8	0.9	- 8				
			MN	15	14	5.2	0.9		-12			
			Mz	15	14	10.5	0.9				± 3	
F	15	15	56.3									
123	March	7	P	15	27	11.4				8.4		
			S	15	27	19.8						
			MN	15	27	19.8	0.5		- 6			
			ME	15	27	20.1	0.5	- 4				
			F	15	27	53.3						
124	March	8	P	5	45	50.2				16.4		
			S	5	46	5.4						
			ME	5	46	6.0	0.9	-20				
			MN	5	46	6.2	1.0		+ 8			
			Mz	5	46	7.6	1.0				- 4	
F	5	47	45.6									
125	March	8	P	8	36	42.0				16.4		
			S	8	36	58.4						
			ME	8	37	16.3	0.7	+ 1				
			MN	....	....	....	0.7		± 2		
126	March	8	P	8	38	18.0				15.7		
			S	8	38	33.7						
			ME	8	38	45.3	0.9	+ 4				
			MN	8	38	46.7	0.7		+ 3			
			Mz	....	....	....	1.0				± 1
F	8	41	4.3									
127	March	8	P	8	56	47.6				8.1		
			S	8	56	55.7						
			MN	8	56	55.7	0.5		- 6			
			ME	8	55	56.0	0.5	- 8				
			Mz	0.5				± 2	
			F	8	57	46.6						

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1936 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ		μ	μ	μ		
128	March	8	P	20	11	36.4					17.9	
			S	20	11	54.3						
			ME	20	11	54.6	0.8	+ 3				
			MN	20	11	54.6	0.9		- 3			
			F	20	12	40.0						
129	March	8	eP	20	35	49.8					16.6	
			S	20	36	6.4						
			ME	20	36	8.0	0.8	- 1				
			MN	20	36	8.0	0.9		+ 1			
130	March	8	P	20	53	38.5					17.0	
			S	20	53	55.5						
			ME	20	53	56.2	1.1	- 8				
			MN	20	53	56.6	1.0		- 4			
			Mz	20	53	59.4	0.9			- 2		
131	March	8	P	22	18	56.1					17.0	
			S	22	19	13.1						
			ME	22	19	13.1	0.8	+ 4				
			MN	22	19	13.7	1.0		- 3			
			F	22	19	30.8						
132	March	8	P	22	24	42.9					17.3	
			S	22	25	0.2						
			ME	22	25	1.5	0.9	± 1				
			MN	22	25	1.5	0.9		- 1			
			F	22	25	23.2						
133	March	8	P	22	46	58.9					16.5	
			S	22	47	15.4						
			ME	22	47	16.2	1.1	- 8				
			MN	22	47	16.9	1.1		- 5			
			F	22	48	54.3						
134	March	9	P	1	27	40.6					16.3	
			S	1	27	56.9						
			MN	1	27	59.5	0.8		- 4			
			ME	1	28	0.6	1.0	+ 4				
			Mz	1	28	1.2	1.0			- 2		
			F	1	29	25.2						

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1936 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ		μ	μ	μ		
135	March	9	P	4	39	58.4					16.6	普通地震計=感ず
			S	4	40	15.0						
			ME	4	40	15.0	1.1	+76				
			MN	4	40	10.4	1.2		- 56			
			Mz	4	40	17.6	0.9			+27		
			F	4	44	59.6						
136	March	9	P	9	50	49.4					16.4	
			S	9	51	5.8						
			MN	9	51	7.6	0.9		+ 3			
			ME	9	51	8.8	0.9	- 3				
			F	9	52	17.3						
137	March	9	P	17	5	0.7					17.6	
			S	17	5	18.3						
			ME	17	5	18.6	0.9	- 3				
			MN	17	5	18.6	0.9		- 2			
			F	17	6	27.3						
138	March	9	P	17	14	6.4					16.6	
			S	17	14	23.0						
			ME	17	14	23.3	0.7	+ 2				
			MN	17	14	25.0	0.8		+ 2			
			F	17	15	8.6						
139	March	9	P	17	47	36.4					15.6	
			S	17	47	52.0						
			ME	17	47	52.9	0.9	- 5				
			MN	17	47	59.9	0.7		- 2			
			F	17	48	48.1						
140	March	9	P	18	18	44.4					16.3	
			S	18	19	0.7						
			ME	18	19	2.0	1.0	-10				
			MN	18	19	2.0	0.9		+ 7			
			F	18	21	16.0						
141	March	9	P	18	41	57.2					55.0	
			S	18	42	52.2						
			MN	18	43	33.5	1.7		+27			
			ME	18	43	39.5	2.0	+38				
			Mz	18	43	50.6	3.4			+15		
			F	18	48	52.9						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E μ	A _N μ	A _Z μ		
142	March	9	P	18	56	42.8				15.4		
			S	18	56	58.2						
			ME	18	56	59.2	0.9	+ 5				
			MN	18	56	59.2	1.0		- 2			
			F	18	57	40.6						
143	March	9	P	19	01	56.9				16.2		
			S	19	02	13.1						
			ME	...	...	...	...	± 1	
			MN	...	...	...	...		± 1
			F	19	03	37.1						
144	March	9	P	19	02	55.9				16.8		
			S	19	03	12.7						
			ME	19	03	13.5	1.1	-10				
			MN	19	03	13.5	1.0		+ 5			
			F	19	05	20.2	1.1		+ 2			
145	March	9	P	19	54	53.1		+5.5	+19.6	+54.1	16.5	普通地震計=感ズ
			S	19	55	9.6						
			ME	19	55	10.9	1.0	-193				
			MN	19	55	10.9	1.0		+95			
			F	20	07	26.7	3.4		+37			
146	March	10	P	20	13	46.5				16.6		
			S	20	14	3.1						
			ME	20	14	3.1	0.9	+10				
			MN	20	14	3.4	0.8		+10			
			F	20	15	1.5						
147	March	10	P	5	23	22.3				16.0		
			S	5	23	38.3						
			ME	5	23	39.3	1.0	-11				
			MN	5	23	40.2	1.0		-11			
			F	5	25	55.2	0.8		+ 4			
148	March	10	P	7	49	4.5				16.9		
			S	7	49	21.4						
			ME	7	49	21.8	1.1	- 4				
			MN	7	49	22.3	0.9		- 4			
			F	7	51	9.0						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E μ	A _N μ	A _Z μ		
149	March	10	P	12	56	44.9				32.1		
			S	12	57	17.0						
			ME	12	57	18.8	1.1		+ 4			
			MN	12	57	20.7	0.9	+ 4				
			Mz	...	...	...	0.7		± 2
			F	12	59	11.7						
150	March	10	P	14	54	16.4				18.2		
			S	14	54	34.6						
			ME	14	54	35.6	1.3	- 9				
			MN	14	54	39.8	1.2		+ 2			
			F	14	57	09.2	0.8		± 4			
151	March	10	eP	21	39	7.4				16.6		
			S	21	39	24.0						
			ME	21	39	32.7	0.7		+ 2			
			MN	21	39	32.7	0.7	± 1				
			F	21	40	18.2						
152	March	10	eP	22	11	12.0				16.3		
			S	22	11	28.3						
			ME	22	11	30.5	0.7		- 1			
			MN	22	11	31.4	0.7	+ 1				
			F	22	11	57.4						
153	March	10	P	0	44	39.9				16.9		
			S	0	44	56.8						
			ME	0	44	57.1	1.1	- 8				
			MN	0	44	59.1	0.7		- 8			
			Mz	0	45	02.1	0.9		+ 6			
			F	0	47	06.7						
154	March	11	P	1	33	44.2		+2.7	+5.5	+14.2	146.9	
			S	1	33	11.1						
			Mz	1	33	37.9	2.6		+39			
			MN	1	34	0.3	2.8		-77			
			ME	1	34	07.3	4.7	-59				
			F	1	48	21.8						
155	March	11	P	2	01	47.6				17.9		
			S	2	02	5.5						
			ME	2	02	12.8	0.8		+ 1			
			MN	2	02	12.8	0.8		+ 1			
			F	2	03	9.0	...	± 1				

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
156	March	11	P	13	54	2.0				17.6		
			S	13	54	19.6						
			MN	13	54	21.4	0.6		- 2			
			ME	13	54	22.6	1.1		+ 2			
			F	13	55	05.3						
157	March	11	P	16	59	31.3				17.1		
			S	16	59	48.4						
			MN	16	59	49.4	0.9		+ 3			
			ME	16	59	49.8	0.9		- 3			
			Mz	16	59	25.9			+ 1			
F	17	01	15.6									
158	March	11	P	22	40	59.5				31.4		
			S	22	41	30.9						
			ME	22	41	30.9	1.2		+11			
			MN	22	41	32.2	1.5		+25			
			F	22	44	40.3						
159	March	11	P	23	18	11.4				17.4		
			S	23	18	28.8						
			ME	23	18	29.5	0.8		-10			
			MN	23	18	29.8	1.2		+13			
			Mz	...	...	...	0.8		± 4
F	23	20	46.3									
160	March	12	P	1	40	58.8				37.6		
			S	1	41	35.9						
			Mz	1	41	38.8	1.7		+12			
			MN	1	42	0.6	1.1		+20			
			ME	1	42	4.5	1.2		-18			
F	1	45	57.6									
161	March	12	P	8	49	59.7				14.1		
			S	8	50	13.8						
			ME	8	50	13.8	0.7		-30			
			MN	8	50	14.6	0.9		+36			
			Mz	8	50	14.6	1.1		-10			
F	8	53	17.3									
162	March	12	P	10	47	23.1				17.3		
			S	10	47	40.4						
			ME	10	47	40.4	0.8		+ 2			
			MN	10	47	41.2	0.7		- 2			
			F	10	48	28.3						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
163	March	12	P	12	46	44.8				16.1		
			S	12	47	0.9						
			ME	12	47	2.5	1.0		-36			
			MN	12	47	3.2	1.1		-22			
			Mz	12	47	7.8	1.5		- 9			
			F	12	53	12.5						
164	March	12	P	17	31	37.2				17.4		
			S	17	31	54.6						
			ME	...	...	...	...		± 1
			MN	...	...	...	...		± 1
F	17	33	11.8									
165	March	12	P	19	14	27.1				16.2		
			S	19	14	43.3						
			ME	19	14	44.5	0.8		+ 2			
			MN	19	14	44.5	0.8		- 2			
			F	19	15	32.2						
166	March	12	P	20	09	50.2				16.1		
			S	20	10	6.3						
			ME	20	10	6.6	0.8		+ 1			
			MN	20	10	6.9	0.7		- 1			
			F	20	10	32.5						
167	March	12	P	20	22	22.6				16.8		
			S	20	22	39.4						
			ME	20	22	39.9	1.1		- 8			
			MN	20	22	40.5	0.9		- 8			
			Mz	...	...	...	0.8		± 3
F	20	24	4.4									
168	March	12	P	21	14	52.9				16.4		
			S	21	15	09.3						
			ME	21	15	10.0	0.6		+ 7			
			MN	21	15	11.6	0.7		+ 2			
169	March	12	P	21	15	49.0				15.5		
			S	21	16	4.5						
			ME	21	16	5.7	1.1		- 7			
			MN	21	16	6.5	1.1		- 4			
			F						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
170	March	12	P	21	16	52.1				15.4		
			S	21	17	7.5						
			ME	21	17	9.5	1.1	- 7				
			MN	21	17	10.5	1.3	- 5				
			Mz	21	17	11.8	0.8		- 4			
			F	21	19	9.2						
171	March	12	P	21	29	58.1				15.8		
			S	21	30	13.9						
			ME	21	30	13.9	1.1	+ 2				
			MN	21	30	16.3	0.8	- 2				
			F	21	31	8.7						
172	March	12	P	21	47	38.0				17.3		
			S	21	47	54.3						
			ME	21	47	55.5	1.0	- 14				
			MN	21	47	55.5	1.0	+ 15				
			Mz	21	47	56.5	0.8		- 4			
			F	21	50	38.6						
173	March	12	P	21	59	19.5				16.0		
			S	21	59	34.9						
			ME	21	59	36.4	0.7	+ 4				
			MN	21	59	36.4	0.7	- 3				
			F	21	00	34.9						
174	March	12	P	22	43	43.4				18.0		
			S	22	44	1.4						
			ME	22	44	2.0	1.1	- 8				
			MN	22	44	2.0	0.9	- 8				
			Mz	....	....	....	0.6		± 2
			F	22	45	36.2						
175	March	12	P	23	26	31.5				18.7		
			S	23	26	50.2						
			ME	23	26	50.8	1.0	+ 3				
			MN	23	26	50.8	1.2	- 3				
			F	23	28	0.3						
176	March	12	P	23	54	45.8				17.5		
			S	23	55	03.3						
			ME	23	55	3.6	0.9	- 3				
			MN	23	55	4.3	0.9	- 3				
			Mz	1.0		± 4			
			F	23	55	52.3						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
177	March	13	eP	0	21	3.9				14.6		
			S	0	21	18.5						
			ME	....	....	....	1.0	± 1	
			F	0	21	43.2						
178	March	13	P	0	41	50.3				16.2		
			S	0	42	6.5						
			MN	0	42	7.0	0.7	- 3				
			ME	0	42	7.5	0.7	+ 4				
179	March	13	eP	1	0	41.8				17.3		
			S	1	0	59.1						
			ME	1	0	59.1	1.1	+ 2				
			MN	1	1	11.3	0.9	- 1				
180	March	13	P	1	2	59.4				16.5		
			S	1	3	15.9						
			MN	1	3	17.6	0.8	- 2				
			ME	1	3	20.6	0.8	- 2				
181	March	13	P	1	30	58.7				17.1		
			S	1	31	15.8						
			ME	1	31	16.3	0.6	+ 9				
			MN	1	31	16.3	0.7	- 3				
182	March	13	Mz	1	31	17.4	0.7		- 2			
			F	1	32	27.7						
			P	2	1	26.7						
			S	2	1	43.7						
183	March	13	ME	2	1	44.3	0.7	+ 3		17.0		
			MN	2	1	44.3	0.6	- 2				
			F	2	2	39.5						
			P	2	35	4.2						
183	March	13	S	2	25	20.5				16.3		
			ME	2	35	20.9	1.0	- 2				
			MN	2	35	21.8	0.8	- 1				
			F	2	35	57.9						

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1969 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E μ	A _N μ	A _Z μ		
184	March	13	eP	2	52	22.0				15.3		
			S	2	52	37.3						
			MN	2	52	37.3	0.9	-	1			
			ME	....	....	....	0.9	±	1
			F	2	53	07.7						
185	March	13	P	3	02	38.3				18.7		
			S	3	02	57.0						
			ME	3	03	0.5	0.7	-	2			
			MN	3	03	03.3	0.6	-	2			
			F	3	04	07.8						
186	March	13	P	3	19	42.3			+2.5	16.8		
			S	3	19	59.1						
			ME	3	20	0.0	0.6	+18				
			MN	3	20	0.0	0.7	-18				
			F	3	21	10.8						
187	March	13	P	4	29	49.0		+1.1	+5.5	+18.2	16.2	普通地震計=感ズ
			S	4	30	05.2						
			ME	4	30	06.7	1.5	-35				
			MN	4	30	10.6	1.1	-36				
			Mz	4	30	18.9	1.5	-40				
			F	4	44	14.2						
188	March	13	eP	4	47	19.2				15.8		
			S	4	47	35.0						
			MN	4	47	35.0	0.6		+1			
			ME	....	....	....	0.7	±	1
			F	4	48	14.2						
189	March	13	eP	5	20	15.8				13.1		
			S	5	20	28.9						
			ME	....	....	....	0.7	±	1
			MN	0.7		±1			
			F	5	20	52.9						
190	March	13	eP	6	33	32.7				18.0		
			S	6	33	50.7						
			ME	6	33	56.5	0.7	-1				
			MN			±1			
			F	6	34	47.7						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E μ	A _N μ	A _Z μ		
191	March	13	P	9	27	04.2				16.2		
			S	9	27	20.4						
			ME	9	27	20.4	1.0	+3				
			MN	9	27	22.7	0.9		-2			
			F	9	28	10.4						
192	March	13	P	9	32	55.2				19.1		
			S	9	33	14.3						
			MN	9	33	14.5	0.9		-4			
			ME	9	33	15.4	0.7	+3				
			Mz	9	33	19.3	1.0		-4			
193	March	14	P	3	17	30.9				16.2		
			S	3	17	47.4						
			ME	3	17	47.9	0.5	+6				
			MN	3	17	47.9	0.6		-3			
			F	3	18	47.4						
194	March	14	eP	5	07	49.8				12.9		
			S	5	08	02.7						
			MN	5	08	03.6	1.0		-2			
			ME	5	08	07.7	1.2	+3				
			F	5	08	53.6						
195	March	14	P	11	55	45.5				18.8		
			S	11	56	04.3						
			MN	11	56	04.9	0.9		-2			
			ME	....	....	....	0.9	±	2
			F	11	56	08.3						
196	March	14	P	14	16	44.9			+0.0	16.2	Occurreb next earth- quake.	
			S	14	17	01.1						
			MN	14	17	02.5	0.7	+8				
			ME	14	17	04.0	0.8		+7			
			Mz	14	17	05.8	0.7		+4			
197	March	14	P	14	19	47.4			+11.9	16.5		
			S	14	20	03.9						
			ME	14	20	05.0	1.1	-60				
			MN	14	20	05.5	1.1		-52			
			Mz	14	20	03.5	1.7		-17			
			F	14	25	25.4						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AR	AN	Az		
				μ	μ	μ		μ	μ	μ		
198	March	14	P	15	20	28.8					08.1	
			S	15	21	36.9						
			MN	15	21	44.1	1.1		- 4			
			ME	15	21	57.1	1.2	+ 8				
			F	15	26	34.7						
199	March	14	P	15	41	45.6					69.7	
			S	15	42	55.3						
			ME	15	43	02.5	1.0	+ 9				
			MN	15	43	07.6	1.3		+17			
			Mz	15	43	26.0	2.0			- 4		
F	15	47	07.6									
200	March	14	P	16	48	44.8					16.7	
			S	16	49	01.5						
			MN	16	49	08.4	0.6		- 8			
			ME	16	50	02.6	0.6	+ 9				
			Mz	16	50	02.6	0.7			± 2		
F	16	51	02.6									
201	March	14	P	17	13	45.6					24.2	
			S	17	14	09.8						
			MN	17	14	10.2	1.1		-11			
			ME	17	14	19.4	1.1	-11				
			Mz	17	14	20.4	0.9			- 4		
F	17	16	24.4									
202	March	14	P	21	05	21.6					17.1	
			S	21	05	38.7						
			ME	21	05	40.0	0.7	+13				
			MN	21	05	40.0	1.2		-11			
			F	21	07	58.8						
203	March	14	P	22	18	30.6					15.9	
			S	22	18	46.5						
			ME	22	18	47.6	0.8	- 8				
			MN	22	18	47.6	1.2		- 9			
			F	22	20	48.5						
204	March	15	P	18	34	08.0		+2.2	+9.3	+28.8	16.6	
			S	18	34	24.6						
			ME	18	34	25.7	0.7	-75				
			MN	18	34	27.5	0.7		+42			
			Mz	18	34	27.5	1.0			+25		
F	18	39	35.0									

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				h.	m.	s.		AR	AN	Az		
				μ	μ	μ		μ	μ	μ		
205	March	15	P	18	43	42.2					15.5	
			S	18	43	57.7						
			ME	18	43	58.3	0.6	+ 2				
			MN	18	43	58.3	0.7		± 2			
			F	18	44	33.9						
206	March	15	P	22	57	22.6					16.2	
			S	22	57	38.8						
			ME	22	57	40.0	0.7	+ 3				
			MN	22	57	41.0	1.0		- 2			
			F	22	58	34.2						
207	March	16	P	1	08	47.9					16.2	
			S	1	09	04.1						
			MN	1	09	05.3	1.0		+ 3			
			ME	1	09	05.5	0.6	+11				
			F	1	11	02.1						
208	March	16	eP	1	47	54.3					17.0	
			S	1	48	11.3						
			MN	1	48	14.4						
			ME	1	48	14.4	0.7		+ 1			
			F	1	48	45.2			± 1			
209	March	16	P	11	30	46.1					16.6	
			S	11	31	02.7						
			ME	11	31	03.6	0.6	+ 3				
			MN	11	31	03.6	1.1		- 2			
			F	11	32	18.3						
210	March	16	P	14	04	37.9					283.8	
			?L	14	09	21.7						
			MN	14	09	21.7	6.4		± 1			
211	March	17	eP	1	23	18.3					15.2	
			S	1	23	33.5						
			ME	1	23	33.5	0.7	+ 1				
			MN	1	23	34.8	0.7		+ 2			
			F	1	24	15.4						
212	March	17	P	1	32	05.9					16.5	
			S	1	32	22.4						
			MN	1	32	23.0	0.8		- 2			
			ME	1	32	23.4	1.2	+ 2				
			F	1	33	31.2						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E μ	A _N μ	A _Z μ		
213	March	17	P	1	39	46.4				17.0	Siwobuki-zaki near Ito, Idu peninsula.	
			S	1	40	03.4						
			MN	1	40	03.8	0.8	- 2				
			ME	...	...	...	0.8	± 2	
			F	1	40	36.6						
214	March	17	P	1	49	30.1				17.1	Ditto	
			S	1	49	47.2						
			MN	1	49	48.4	1.0	- 1				
			ME	...	...	...	...	± 1	
			F	1	50	20.7						
215	March	17	P	2	08	57.6				16.2	Ditto	
			S	2	09	13.8						
			ME	2	09	14.9	0.7	+ 7				
			MN	2	09	16.1	0.7	- 4				
			Mz	...	...	...	0.6		± 2
216	March	17	P	19	07	42.9			+1.0	16.2	Ditto	
			S	19	07	59.1						
			ME	19	07	59.1	0.8	+ 3				
			MN	19	08	01.8	0.8	- 4				
			Mz	19	08	04.7	0.7		+ 2			
217	March	18	P	2	11	47.7			+4.0	16.4	Ditto	
			S	2	12	05.2						
			ME	2	12	05.5	0.6	- 6				
			MN	2	12	06.8	1.1	+ 4				
			Mz	2	12	10.2	0.9		- 2			
218	March	18	P	2	46	37.5			+2.9	16.7	Ditto	
			S	2	46	54.2						
			ME	2	46	54.5	0.8	- 8				
			MN	2	46	55.3	1.0	- 9				
			Mz	2	47	02.4	0.7		- 4			
219	March	19	P	3	09	21.4				11.6	Lower region of Kokai-gawa.	
			S	3	09	33.0						
			ME	3	09	33.2	0.5	+ 3				
			MN	3	09	33.2	0.6		- 6			
			F	3	10	12.3						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E μ	A _N μ	A _Z μ		
220	March	19	P	7	29	30.1				16.8	Siwobuki-zaki near Ito, Idu peninsula.	
			S	7	29	46.9						
			ME	...	...	...	0.7	± 2	
			MN	...	...	...	0.7		± 2
			F	7	30	39.8						
221	March	19	P	7	45	13.7				17.3	Ditto	
			S	7	45	31.0						
			ME	7	45	32.1	0.6	+ 1				
			MN	...	...	...	0.6		± 1
			F	7	46	11.5						
222	March	19	P	7	51	23.9				17.0	Ditto	
			S	7	51	40.9			+3.9			
			ME	7	51	42.1	1.0	+ 4				
			MN	7	51	42.1	0.8		+ 3			
			Mz	7	51	52.3	1.1		- 2			
223	March	19	P	8	01	12.9				16.8	Ditto	
			S	8	01	29.7						
			MN	8	01	31.5	0.6		- 3			
			ME	8	01	32.2	0.6		- 3			
			F	8	02	40.9						
224	March	19	P	8	07	46.6				17.0	Ditto	
			S	8	08	03.6						
			MN	8	08	04.3	0.8		+ 2			
			ME	8	08	06.1	1.1	+ 3				
			Mz	...	...	...	1.1		± 1
225	March	19	P	8	27	24.9				16.4	Ditto	
			S	8	27	42.0						
			ME	8	27	42.3	0.7	- 4				
			MN	8	27	43.0	1.1		- 4			
			F	8	28	56.9						
226	March	19	P	8	49	37.9			+2.0	16.8	Ditto	
			S	8	49	54.7						
			ME	8	49	55.1	0.7	- 3				
			MN	8	49	55.8	0.8		- 2			
			F	8	51	25.6						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
227	March	19	iP	10	17	01.7		+0.8	+6.0	+12.7	16.6	Siwobuki-zaki near Ito, Idu peninsula.
			eS	10	17	18.3						
			ME	10	17	19.8	1.2	+45				
			MN	10	17	20.7	1.0	+19				
			Mz	10	17	31.5	1.1		+8			
F	10	27	45.5									
228	March	19	P	17	13	03.8				17.0	Ditto	
			S	17	13	23.8						
			ME	17	13	23.8	0.8	+3				
			MN	17	13	26.4	0.8		-3			
			F	17	14	31.7						
229	March	19	P	17	15	28.8				16.0	Ditto	
			S	17	15	44.8						
			ME	17	15	44.8	0.7	+2				
			MN	...	...	...	0.8		±1			
			F	17	16	31.0						
230	March	19	P	17	37	39.5				13.8	Ditto	
			S	17	37	53.3						
			ME	17	37	54.8	0.6	+2				
			MN	17	37	54.8	0.6		+2			
			F	17	38	34.1						
231	March	20	eP	9	13	27.9				13.0	Unknown	
			S	9	13	45.9						
			MN	9	13	45.9	0.9		-1			
			ME	...	...	...			±1			
			F	9	14	35.4						
232	March	20	P	10	04	48.1			+1.0	16.4	Siwobuki-zaki near Ito, Idu peninsula.	
			S	10	05	04.5						
			ME	10	05	04.8	0.6	-7				
			MN	10	05	05.7	1.0		-5			
			Mz	...	...	...	0.9		±1			
F	10	06	35.2									
233	March	20	eP	10	30	21.2				16.2	Ditto	
			S	10	30	37.4						
			ME	10	30	37.4	0.6	-1				
			MN			±1			
			F	10	31	13.7						

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				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
234	March	20	P	11	04	01.2				17.3	Siwobuki-zaki near Ito, Idu peninsula.	
			eS	11	04	18.5						
			MN	11	04	19.7	...		-2			
			ME	...	...	...	...		±1			
			F	11	05	05.2						
235	March	20	P	16	49	07.4				16.5	Ditto	
			S	16	49	23.9						
			ME	16	49	24.3	0.8	-4				
			MN	16	49	24.3	0.6		+3			
			Mz	...	...	...	0.7		±1			
F	16	50	31.7									
236	March	20	P	22	21	30.7			+2.0	16.7	Ditto	
			S	22	21	47.4						
			MN	22	21	49.6	0.7		+3			
			ME	22	21	51.7	0.8	-5				
			Mz	22	21	52.5	0.8		-1			
F	22	23	00.5									
237	March	21	P	5	34	10.4				17.4	Ditto	
			S	5	34	27.8						
			ME	5	34	28.1	0.6	-2				
			MN	5	34	29.4	0.8		-1			
			F	5	35	17.7						
238	March	21	P	8	16	32.7				16.5	Ditto	
			S	8	16	49.2						
			ME	8	16	49.6	0.7	+2				
			MN	8	16	51.1	0.7		-1			
			F	8	17	28.9						
239	March	21	iP	8	39	18.6		+0.0	+3.6	+10.3	16.6	Ditto
			S	8	39	35.2						
			ME	8	39	36.2	0.6	+22				
			MN	8	39	36.2	0.8		-11			
			Mz	8	39	40.4	0.9		+5			
F	8	42	38.0									
240	March	21	eP	20	55	11.0				14.0	Unknown	
			S	20	55	25.0						
			ME	20	55	26.1	0.6	-6				
			MN	20	55	26.1	0.9		+6			
			F	20	56	40.0						

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				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
241	March	21	P	22	47	52.7			+0.6	16.8	Siwobuki-zaki near Ito, Idu peninsula.	
			S	22	48	09.5						
			ME	22	48	09.8	0.8	+ 3				
			Mz	22	48	14.7	0.8		+ 2			
			MN	22	55	11.3	0.8		- 4			
			F	22	49	37.6						
242	March	21	P	23	24	28.4		+5.5	+16.4	15.7	Ditto	
			S	23	24	44.1						
			MN	23	24	44.9	0.7	+48				
			ME	23	24	45.1	1.3	-41				
			Mz	23	24	50.2	0.9		+18			
			F	23	33	30.9						
243	March	21	P	23	35	04.5				16.7	Ditto	
			S	23	35	21.2						
			ME	23	35	22.2	0.7	+ 4				
			MN	23	35	24.5	0.8		+ 2			
			F	23	35	57.1						
244	March	22	eP	16	11	07.5				16.5	Ditto	
			S	16	11	24.0						
			MN	16	11	26.4	0.8	+ 1				
			ME	...	...	...	...	± 1	
			F	16	11	49.8						
245	March	22	eP	16	13	27.0				16.2	Ditto	
			S	16	13	43.2						
			ME	16	13	44.2	0.9	+ 3				
			MN	16	13	44.2	0.7		- 2			
			F	16	14	08.3						
246	March	22	eP	16	21	47.7				16.5	Ditto	
			S	16	22	04.2						
			ME	16	22	05.1	0.9	+ 6				
			MN	16	22	05.6	1.0		- 3			
			F	16	22	50.4						
247	March	22	P	16	39	58.2				16.6	Ditto	
			S	16	40	14.8						
			ME	16	40	16.3	0.9	+ 1				
			F	16	40	47.3						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
248	March	22	P	16	44	14.5				16.8	Siwobuki-zaki near Ito, Idu peninsula.	
			S	16	44	31.3						
			ME	16	44	31.3	1.0	+ 2				
			MN	16	44	31.3	0.7		+ 1			
			F	16	44	58.8						
249	March	22	P	17	02	36.3			+0.0	16.3	Occured the next earthquake.	
			S	17	02	52.6						
			ME	17	02	53.1	0.9	-11				
			MN	17	02	53.8	0.9		- 8			
			Mz	17	03	54.5	1.1		- 4			
250	March	22	P	17	03	40.3			+4.4	+9.7	16.0	Ditto
			S	17	03	56.3						
			ME	17	03	57.1	1.0	-25				
			MN	17	03	58.0	0.8		-19			
			Mz	17	03	59.4	1.0		+ 8			
			F	17	06	50.4						
251	March	22	eP	17	25	39.0				16.6	Ditto	
			S	17	25	55.6						
			ME	17	25	55.9	1.0	+ 2				
			MN	17	25	56.4	0.7		+ 2			
			F	17	26	51.4						
252	March	22	eP	17	32	02.0				16.7	Ditto	
			S	17	32	18.7						
			ME	17	32	19.3	0.7	+ 1				
			MN	17	32	19.7	0.7		+ 1			
			F	17	32	58.1						
253	March	22	P	17	42	59.2				16.6	Ditto	
			S	17	43	15.8						
			MN	17	43	16.1	0.9		+ 2			
			ME	17	43	16.4	0.9	+ 4				
			F	17	44	38.5						
254	March	22	eP	17	46	05.0				17.8	Ditto	
			S	17	46	22.8						
			ME	17	46	23.1	0.6	+ 2				
			F	17	46	45.8						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
255	March	22	iP	17	50	57.3		+15.8	+56.7	+106.5	16.5	Siwobuki-zaki near Ito, Idu peninsula. Felt slightly
			S	17	51	13.8						
			ME	17	51	14.5	1.2	+1625				
			MN	17	51	22.6	1.5		-450			
			Mz	17	51	18.4	2.4			-239		
			F	18	31	26.6						
256	March	22	eP	18	21	09.2				16.3	Unknown	
			S	18	22	25.5						
			ME	...	...	...		± 1				
			F	18	22	48.2						
257	March	22	P	18	32	26.9				16.4	Siwobuki-zaki near Ito, Idu peninsula	
			S	18	32	43.3						
			ME	18	32	43.6	0.7	+ 6				
			MN	18	32	42.6	0.6		- 6			
			F	18	34	03.3						
258	March	22	P	18	39	18.7				19.9	Ditto	
			S	18	39	38.6						
			ME	18	39	39.2	0.8	- 3				
			MN	...	...	...	0.7		± 1			
			F	18	40	26.8						
259	March	22	eP	19	01	44.0				16.1	Ditto	
			S	19	02	00.1						
			ME	19	02	00.6	0.8	+ 1				
			F	19	02	26.4						
260	March	22	eP	19	32	24.7				16.2	Ditto	
			S	19	32	40.9						
			MN	19	32	41.4	0.8		- 1			
			ME	19	32	41.7	0.7	+ 2				
			F	19	33	35.1						
261	March	22	P	19	40	27.9				18.1	Ditto	
			S	19	40	46.0						
			ME	19	40	46.5	0.9	- 3				
			MN	19	40	56.5	0.9		- 2			
			F	19	42	54.7						
262	March	22	eP	21	09	05.0				16.8	Ditto	
			S	21	09	21.8						
			ME	21	09	21.8	1.0	- 3				
			MN	21	09	22.2	1.0		+ 2			
			F	21	10	02.2						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
263	March	23	P	0	24	34.0			+16.2	07.7	Upper basin of Omoigawa.	
			S	0	24	41.7						
			MN	0	24	42.1	0.7		-46			
			ME	0	24	42.5	0.7		-33			
			Mz	0	24	47.3	0.6					+20
			F	0	27	13.7						
264	March	23	P	3	02	17.7				16.3	Siwobuki-zaki near Ito, Idu peninsula.	
			S	3	02	34.0						
			ME	3	02	34.8	0.9	+ 4				
			MN	3	02	34.8	0.9		- 4			
			F	3	04	07.4						
265	March	23	P	3	46	40.5				16.8	Ditto	
			S	3	46	57.3						
			ME	3	46	57.7	0.6		- 8			
			MN	3	46	57.7	0.6		- 4			
			F	3	48	23.8						
266	March	23	eP	11	38	05.4				16.3	Ditto	
			S	11	38	21.7						
			MN	11	38	26.1	0.6		+ 1			
			ME	...	...	...		± 1				
			F	11	39	04.9						
267	March	23	P	12	02	46.4				16.7	Ditto	
			S	12	03	03.1						
			ME	12	03	03.6	0.8	+ 4				
			MN	12	03	03.6	0.8		- 2			
			F	12	03	50.2						
268	March	23	P	12	05	18.1				16.6	Ditto	
			S	12	05	34.7						
			ME	12	05	35.9	1.0	+ 9				
			MN	12	05	36.3	0.8		- 3			
			F	12	07	01.4						
269	March	23	P	12	20	47.9				16.7	Ditto	
			S	12	21	04.6						
			MN	12	21	05.1	0.7		- 3			
			ME	12	21	05.4	0.7	+ 3				
			F	12	22	02.3						

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1931 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude μ			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
270	March	23	P	12	59	59.5					17.5	Siwobuki-zaki near Ito, Idu peninsula.
			S	13	00	17.0						
			ME	13	00	18.4	1.0	+ 5				
			MN	13	00	18.4	0.8		- 4			
			F	13	01	43.7						
271	March	23	P	13	08	39.2					17.8	Ditto
			S	13	08	57.0						
			ME	13	08	57.4	0.7	+ 3				
			MN	13	08	57.4	0.9		- 2			
			F	13	10	08.0						
272	March	23	eP	13	46	07.7					16.6	Kasima-nada
			S	13	46	24.3						
			ME	13	46	24.8	0.8	+ 2				
			MN	13	46	24.8	0.6		+ 2			
			F	13	47	05.7						
273	March	24	eP	7	28	01.7					15.5	Siwobuki-zaki near Ito, Idu peninsula
			S	7	28	17.2						
			ME	7	28	17.5	0.7	+ 3				
			MN	7	28	17.5	0.7		- 2			
			F	7	28	56.5						
274	March	24	P	12	13	36.1					16.5	Ditto
			S	12	13	52.6						
			ME	12	13	53.4	0.6	+ 3				
			MN	12	13	53.4	0.7		- 2			
			F	12	14	32.4						
275	March	24	P	12	45	39.8					16.3	Ditto
			S	12	45	56.1						
			MN	12	45	58.7	0.8		- 2			
			ME	12	45	59.3	0.8	+ 3				
			F	12	47	17.0						
276	March	24	P	13	20	46.9					17.0	Ditto
			S	13	21	03.9						
			MN	13	21	03.9	0.8		+ 3			
			ME	13	21	04.4	0.6	+ 4				
			F	13	22	16.9						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude μ			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
277	March	24	P	13	22	18.8					16.7	Siwobuki-zaki near Ito, Idu peninsula.
			S	13	22	35.5						
			ME	13	22	36.0	0.6	+ 6				
			MN	13	22	36.0	0.8		- 3			
			F	13	23	58.9						
278	March	24	eP	14	42	15.8					16.6	Ditto
			S	14	42	32.4						
			ME	14	42	32.7	0.8	+ 3				
			MN	14	42	33.2	0.8		+ 3			
			F	14	43	08.5						
279	March	24	P	15	02	42.7					16.8	Ditto
			S	15	02	59.5						
			ME	15	03	00.4	0.9	- 14				
			MN	15	03	00.7	1.0		+ 14			
			F	15	05	29.4						
280	March	24	P	15	13	31.2					16.3	Ditto
			S	15	13	47.5						
			ME	15	13	48.3	0.7	+ 3				
			MN	15	13	49.3	0.7		- 2			
			F	15	14	16.5						
281	March	24	eP	15	27	17.2					16.5	Ditto
			S	15	27	33.7						
			ME	15	27	34.9	0.9	+ 3				
			MN	15	27	34.9	0.9		- 2			
			F	15	28	23.7						
282	March	24	eP	15	30	48.2					17.6	Ditto
			S	15	31	05.8						
			ME	15	31	05.8	1.1	+ 4				
			MN	15	31	06.7	1.0		- 4			
			F	15	32	49.8						
283	March	24	P	15	49	32.4					15.6	Ditto
			S	15	49	48.0						
			ME	15	49	49.5	0.8	+ 12				
			MN	15	49	49.5	1.0		+ 9			
			F	15	51	46.2						

1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
284	March	24	P	15	55	53.0				16.6	Siwobuki-zaki near Ito, Idu peninsula.	
			S	15	56	09.6						
			ME	15	56	10.7	1.0	- 4				
			MN	15	56	11.2	0.9		- 3			
			F	15	57	16.2						
285	March	25	eP	15	09	12.5				16.5	Kasima-nada	
			S	15	09	29.0						
			MN	15	09	29.2	0.6		- 2			
			Mz	15	09	34.9	0.9			- 2		
			ME	15	09	26.0	0.9	+ 2				
286	March	25	P	20	30	57.0				16.7	Unknown	
			S	20	31	13.7						
			MN	20	31	14.9	0.9		- 3			
			ME	20	31	19.0	0.7	+ 2				
			F	20	32	50.7						
287	March	25	eP	21	11	24.1				17.0	Siwobuki-zaki near Ito, Ibu peninsula.	
			S	21	11	41.1						
			ME	21	11	42.3	0.8	+ 3				
			MN	21	11	42.3	0.9		- 2			
			F	21	12	30.3						
288	March	25	P	22	11	04.8				18.5	Ditto	
			S	22	11	23.3						
			ME	22	11	24.4	1.1	+ 7				
			MN	22	11	24.4	0.8		- 6			
			F	22	12	42.0						
289	March	25	P	22	15	35.9				16.5	Ditto	
			S	22	15	52.4						
			MN	22	15	53.6	0.8		- 1			
			ME	...	...	...	0.7	± 1		
			F	22	16	17.5						
290	March	25	eP	22	22	09.3				16.7	Ditto	
			S	22	22	26.0						
			ME	22	22	26.5	0.7	+ 2				
			MN	22	22	26.5	0.7		- 1			
			F	22	23	09.3						

1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
291	March	25	P	22	40	21.9				+ 4.9	16.6	Siwobuki-zaki near Ito, Idu peninsula.
			S	22	40	38.5						
			Mz	22	40	39.2	0.7		- 2			
			MN	22	40	40.0	0.9		- 6			
			ME	22	40	43.5	0.7	- 3				
			F	22	42	29.4						
292	March	25	P	22	46	19.0				16.5	Ditto	
			S	22	46	35.5						
			ME	22	46	36.7	0.7	+ 1				
			MN	22	46	37.0	0.7		- 1			
			F	22	47	20.5						
293	March	25	eP	22	53	24.5				16.2	Ditto	
			S	22	53	40.7						
			MN	22	53	41.3	0.7		- 1			
			ME	...	...	...	0.7	± 1		
			F	22	54	16.9						
294	March	25	P	23	11	34.9				16.7	Ditto	
			S	23	11	51.6						
			ME	23	11	52.2	0.9	+ 2				
			MN	23	11	52.7	0.6		- 2			
			F	23	12	20.6						
295	March	25	P	23	25	22.5				16.5	Ditto	
			S	23	25	39.0						
			MN	23	25	39.5	1.0		+ 4			
			ME	23	25	40.3	1.2	- 8				
			Mz	...	...	...	0.7		± 4	
296	March	26	P	2	01	56.1				16.7	Ditto	
			S	2	02	12.8						
			ME	2	02	13.8	0.8	+ 5				
			MN	2	02	13.8	1.1		+ 3			
			Mz	2	02	15.1	0.9		- 2			
297	March	26	P	3	15	30.9				16.7	Ditto	
			S	3	15	47.6						
			ME	3	15	48.2	0.9	+ 2				
			MN	3	15	48.2	0.9		- 6			
			Mz	0.8		± 2			
F	3	17	01.6									

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				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
298	March	26	P	3	29	19.0				16.7	Siwobuki-zaki near Ito, Idu peninsula.	
			S	3	29	35.7						
			ME	3	29	36.8	1.0	+ 4				
			MN	3	29	36.8	1.0		- 5			
			F	3	31	39.8						
299	March	26	eP	4	40	16.8				17.1	Ditto	
			S	4	40	33.9						
			ME	4	40	34.9	0.8	+ 1				
			MN	....	....	....	0.9		± 1
			F	4	41	08.2						
300	March	26	eP	4	49	59.2				17.0	Ditto	
			S	4	50	16.2						
			ME	4	50	17.1	1.0	+ 1				
			MN	4	50	17.1	1.0		- 1			
			F	4	50	43.8						
301	March	26	P	4	59	36.2				16.4	Ditto	
			S	4	59	52.6						
			MN	4	59	53.6	0.7		- 2			
			ME	....	....	....	0.8	± 2	
			F	5	00	34.7						
302	March	26	P	14	23	04.3			+4.2 +16.9 +46.8	16.6	Ditto Felt slightly.	
			S	14	23	20.9						
			MN	14	23	25.3	0.8		-66			
			ME	14	23	26.7	1.3	-86				
			F	14	37	05.3	2.5		-32			
303	March	26	P	15	17	17.3				17.0	Siwobuki-zaki near, Ito Idu peninsula.	
			S	15	17	34.3						
			MN	15	17	34.3	0.7		- 1			
			ME	15	17	35.4	0.7	+ 2				
			F	15	18	40.4						
304	March	26	P	15	36	34.4				11.1	Middle basin of the Kokai-gawa.	
			S	15	36	45.5			-2.0			
			ME	15	36	45.5	0.5	+ 6				
			MN	15	36	45.7	0.5		- 6			
			F	15	38	15.0	0.6		- 4			

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				h.	m.	s.		A _E	A _N	A _Z		
				μ	μ	μ						
305	March	26	P	15	38	21.8				16.7	Siwobuki-zaki near Ito, Idu peninsula.	
			S	15	38	38.5						
			ME	15	38	38.9	0.9	- 2				
			MN	15	38	39.2	0.9		- 2			
			F	15	39	39.8						
306	March	26	P	16	20	30.6				P-S=264.6 S-L=119.4	Southern Ocean.	
			S?	16	24	55.2						
			L?	16	26	54.6						
			ME	16	30	32.7	8.6	+29				
			MN	16	32	03.4	8.8		-28			
F	17	11	04.9									
307	March	27	P	0	46	41.2				16.3	Siwobuki-zaki near Ito, Idu peninsula.	
			S	0	46	57.5						
			MN	0	46	58.8	0.6		- 1			
			ME	....	....	....	0.9	± 1	
			F	0	47	34.9						
308	March	27	iP	1	41	52.5			+4.8 +14.2	16.6	Ditto	
			iS	1	42	09.1						
			ME	1	42	10.3	1.2	-140				
			MN	1	42	10.5	1.2		-111			
			Mz	1	42	13.3	2.8		-27			
F	1	59	02.7									
309	March	27	P	3	30	57.1				16.9	Ditto	
			S	3	31	14.0						
			ME	3	31	14.4	0.6	- 2				
			MN	3	31	15.0	0.9		- 4			
			F	3	32	38.9			± 1			
310	March	27	P	11	43	41.4				16.6	Unknown	
			S	11	43	58.0						
			ME	....	....	....	1.5	± 2	
			MN	....	....	....	1.3		± 2
			F	11	46	00.2						
311	March	27	P	11	46	18.1				25.6	Ditto	
			S	11	46	43.7						
			MN	11	46	52.4	0.8		- 2			
			ME	11	47	03.5	1.2	- 2				
			F	11	50	00.2						

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				h.	m.	s.		AE	AN	Az			
				μ	μ	μ							
312	March	27	P	12	46	32.4	1.1	+ 2		20.7	Kasima-nada		
			S	12	46	53.1							
			ME	12	46	54.3							
			MN						1.4	± 2
			F	12	47	38.0							
313	March	28	eP	10	01	37.0	0.8	+ 1		15.9	Siwobuki-zaki near Ito, Idu peninsula.		
			S	10	01	52.9							
			ME	10	01	59.1							
			MN	10	02	00.7						0.7	- 1
			F	10	02	27.2							
314	March	28	P	21	53	28.7	1.0	- 2		16.0	Kasima-nada		
			S	21	53	44.7							
			ME	21	53	44.7							
			MN	21	53	53.3						0.9	- 1
			F	21	54	29.9							
315	March	29	eP	1	07	26.0	0.8	+ 2		16.6	Siwobuki-zaki near Ito, Idu peninsula.		
			S	1	07	42.6							
			ME	1	07	42.6							
			MN	1	07	42.9						0.8	- 1
			F	1	08	08.2							
316	March	29	eP	1	17	09.0	0.9	+ 2		16.6	Ditto		
			S	1	17	25.6							
			ME	1	17	25.6							
			MN	1	17	26.6						0.7	- 2
			F	1	17	57.0							
317	March	29	P	2	32	33.3	1.0	+ 2		15.4	Ditto		
			S	2	32	48.7							
			ME	2	32	48.7							
			MN	2	32	50.1						0.9	- 2
			F	2	33	31.8							
318	March	29	P	2	46	35.7	1.0	- 7		16.9	Ditto		
			S	2	46	52.6							
			ME	2	46	52.8							
			MN	2	46	52.8						1.2	+ 5
			Mz	2	47	00.3						1.1	- 4
			F	2	48	51.0							

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				h.	m.	s.		AE	AN	Az			
				μ	μ	μ							
319	March	29	P	2	53	19.5	1.1	- 13		16.3	Unknown		
			S	2	53	35.8							
			ME	2	53	36.9							
			MN	2	53	37.6						1.1	- 9
			F	2	55	51.0							
320	March	29	iP	3	11	52.4	1.1	- 32	+ 1.1 + 5.4 + 11.2	16.5	Siwobuki-zaki near Ito, Idu peninsula. Occured the next earthquake.		
			S	3	12	08.9							
			ME	3	12	10.1							
			MN	3	12	10.1						0.9	+ 25
			Mz	3	12	12.1						1.9	+ 12
321	March	29	P	3	15	01.9	0.9	- 21		18.3	Siwobuki-zaki near Ito, Idu peninsula.		
			S	3	15	20.2							
			ME	3	15	20.5							
			MN	3	15	20.5						0.9	+ 9
			F	3	17	12.6							
322	March	29	P	4	04	39.3	1.2	- 21	+ 2.5	16.3	Ditto		
			S	4	04	55.6							
			ME	4	04	56.5							
			MN	4	04	56.7						0.9	- 13
			Mz	4	05	11.5						1.1	- 8
			F	4	07	22.4							
323	March	29	P	4	07	46.7	0.8	+ 2		17.3	Ditto		
			S	4	08	04.0							
			ME	4	08	04.9							
			MN	4	08	04.9						0.8	- 2
			F	4	08	25.7							
324	March	29	P	5	10	58.3	0.9	- 5		16.7	Ditto		
			S	5	11	15.0							
			ME	5	11	15.3							
			MN	5	11	16.0						0.9	- 3
			F	5	12	50.5							
325	March	29	P	7	17	40.1	1.0	- 2		17.7	Ditto		
			S	7	17	57.8							
			ME	7	17	57.8							
			NN	7	18	04.1						0.6	- 1
			F	7	18	35.8							

1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ		μ	μ	μ		
326	March	29	P	9	56	16.8					55.0	Far off western sea of Hatisyo island.
			S	9	57	11.8						
			MN	9	57	14.6	0.9	+10				
			Mz	9	57	18.4	1.1		+8			
			ME	9	57	20.6	0.8	+8				
			F	9	59	49.3						
327	March	29	eP	22	27	24.0					16.5	Siwobuki-zaki near Ito, Idu peninsula.
			S	22	27	40.5						
			ME	22	27	40.7	0.9	+3				
			MN	22	27	40.7	1.1		-2			
			F	22	28	23.7						
328	March	29	P	22	31	21.4					16.4	Ditto
			S	22	31	37.8						
			MN	22	31	38.2	0.7		-1			
			ME	22	31	54.6	0.7	±1				
			F	22	31	54.6						
329	March	29	P	22	37	48.0					16.5	Ditto
			S	22	38	04.5						
			ME	22	38	05.0	0.8	-8				
			MN	22	38	05.5	0.9		-4			
			F	22	39	17.8						
330	March	29	eP	22	39	57.5					16.4	Ditto
			S	22	40	13.9						
			ME	22	40	14.3	0.8	+2				
			F	22	40	44.5						
331	March	29	eP	22	42	22.0					16.3	Ditto
			S	22	42	38.3						
			MN	22	42	38.8	0.7		-2			
			ME	22	42	39.2	0.7	+3				
			F	22	43	14.6						
332	March	29	P	22	49	58.7					17.1	Ditto
			S	22	50	15.8						
			ME	22	50	16.1	0.7	-3				
			MN	22	50	16.1	0.7		+1			
			F	22	50	59.7						

1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ		μ	μ	μ		
333	March	29	P	22	55	08.3					16.8	Siwobuki-zaki near Ito, Idu peninsula.
			S	22	55	25.1						
			ME	22	55	25.4	0.8	-2				
			MN	22	55	25.4	0.7		-1			
			F	22	55	55.2						
334	March	29	eP	23	05	53.3					16.5	Ditto
			S	23	06	09.8						
			ME	23	06	10.0	0.7	-1				
335	March	29	eP	23	22	34.9					16.5	Ditto
			S	23	22	51.4						
			MN	23	22	51.4	0.9		-1			
			ME	23	22	51.8	0.7	-1				
			F	23	23	19.2						
336	March	30	iP	0	05	41.9		+0.5	+2.4	+9.4	16.3	Ditto
			S	0	06	58.2						
			ME	0	05	59.3	0.9	-41				
			MN	0	06	59.3	1.0		+34			
			Mz	0	07	01.0	2.1		+10			
337	March	30	P	0	28	00.1					16.6	Ditto
			S	0	28	16.7						
			ME	0	28	17.0	0.7	+1				
			F	0	28	45.7						
338	March	30	P	0	36	32.9					17.1	Ditto
			S	0	36	50.0						
			ME	0	33	50.0	1.0	-5				
			MN	0	33	50.3	0.8		-2			
			F	0	37	40.2						
339	March	30	eP	5	40	18.9					09.7	Ditto
			S	5	40	28.6						
			ME	5	40	29.1	0.7	+23				
			MN	5	40	29.6	0.9		+19			
			F	5	43	34.6						
340	March	30	P	5	45	20.0					16.5	Ditto
			S	5	45	45.5						
			MN	5	45	47.1	0.9		+2			
			ME	5	45	49.7	0.9	+3				
			F	5	46	51.6						

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1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ		μ	μ	μ		
341	March	30	P	14	08	23.5	0.6	+ 4	- 3.5	46.2	Far off south of the Omac-zaki.	
			S	14	09	09.7						
			MN	14	09	12.6						
			Mz	14	09	17.0						
			MR	14	09	17.3						
			F	14	11	08.4	1.1	+ 5				
342	March	30	P	17	28	55.1	0.9	- 5	+ 2.9	17.1	Siwobuki-zaki near Ito, Idu peninsula.	
			S	17	29	12.2						
			MR	17	29	12.7						
			MN	17	29	14.0						
			Mz	17	29	14.0						
						F						17	30	42.2	0.7	+ 10
							0.7	± 4				
343	March	30	P	23	27	18.7	7.2	+ 5	P-S=243.3 S-L=126.5	Unknown		
			S?	23	31	22.0						
			L'	23	33	23.5						
			MN	23	39	23.5						
			MR	23	52	41.0						
			F	23	52	41.0	± 1					
344	March	31	P	10	00	05.6	0.9	- 19	+ 4.9	16.4	Siwobuki-zaki near Ito, Idu peninsula.	
			S	10	00	22.0						
			MR	10	00	23.1						
			Mz	10	00	23.7						
			MN	10	00	27.3						
						F						10	03	16.3	1.2	- 9
345	March	31	P	13	59	52.9	1.1	+ 4	16.0	Coast of Kuzvukuri, Tiba prefecture.		
			S	14	00	08.9						
			MR	14	00	10.1						
			MN	14	00	10.1						
			Mz	14	00	13.3						
						F						14
							0.9	- 5				

KUMAGAYA JAPAN

Seismological Bulletin

of

the Kumagaya Meteorological Observatory of Japan

φ=36°09' λ=139°23' h=30.2m

Wiechert's Seismograph.
(Horizontal & Vertical)

Omor's Seismograph.
(Horizontal Pendulum)

C. M. O. Seismograph.
(Horizontal & Vertical)

	T ₀	ε	r	V
			T ₀ ²	
AN :	6.5	5.2	0.011	89
AE :	5.1	5.1	0.017	89
Az :	3.5	1.9	0.005	48

	T ₀	ε	r	V
			T ₀ ²	
AN :	21.0	1.4	0.001	10
AE :	27.0	1.9	0.004	10

	T ₀	ε	r	V
			T ₀ ²	
AN :	3.5		0.004	2
AE :	3.5		0.004	2
Az :	5.0		0.003	3

1930 NO.	Month	Day	Phase	Time (135°E. M. T.)			Period s.	Amplitude			Preliminary Tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ		μ	μ	μ		
346	April	1	eP	6	10	11.2	1.1	± 1	± 1	16.4	Siwobuki-zaki near Ito, Idu peninsula.	
			eS	6	10	27.6						
			MR, v.	6	11	07.6						
			F	6	11	07.6						
347	April	1	P	12	13	13.1	0.7	- 17	+ 4.7	16.4	Ditto	
			S	12	18	29.5						
			MR	12	18	33.1						
			MN	12	18	34.1						
			Mz	12	18	35.6						
						F						12	21	19.4	1.1	+ 6
348	April	1	P	12	51	45.5	1.0	+ 5	07.8	Lower basin of the River Tama.		
			S	12	51	53.3						
			MR	12	51	55.0						
			MN	12	51	55.0						
						F					12	53	26.4	1.0	- 5
349	April	1	P	13	07	34.5	1.0	± 2	16.4	Siwobuki-zaki near Ito, Idu peninsula.		
			S	13	07	51.0						
			MN	13	07	51.9						
			MR	13	07	51.9						
						F					13	08	30.9	1.0	- 2
350	April	1	P	23	04	49.3	0.9	- 99	+ 2.7 + 8.7 + 20.6	16.4	Ditto	
			S	23	05	05.7						
			MR	23	05	06.7						
			MN	23	05	07.2						
			Mz	23	05	08.7						
						F						23

1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
351	April	2	eP	16	30	41.7				16.5	Kasimanada coast.	
			S	16	30	58.2						
			ME	16	30	58.6	....	- 2			
			MN	16	30	58.6	0.7		+ 1			
			F	16	31	40.2						
352	April	2	P	17	00	08.8				16.7	Siwobuki-zaki near Ito, Idu peninsula.	
			S	17	00	25.5			+5.0			
			MN	17	00	26.2	0.9		- 7			
			ME	17	00	26.8	0.6		- 4			
			Mz	17	00	30.8	0.8		- 2			
F	17	01	40.5									
353	April	3	P	4	23	09.3				41.6	Far off NE. of Hatisyo island.	
			S	4	23	50.9						
			ME	4	23	50.9	1.4		-15			
			MN	4	23	52.4	1.0		-20			
			Mz	4	23	56.1	1.2		+ 6			
F	4	27	06.0									
354	April	4	P	3	56	07.0				16.3	Siwobuki-zaki near Ito, Idu peninsula.	
			S	3	56	24.2						
			ME	3	56	24.8	0.8		- 5			
			MN	3	53	25.8	0.9		- 2			
			F	3	57	10.1						
355	April	4	P	4	27	50.9				16.2	Ditto	
			S	4	28	07.1						
			ME	4	28	08.0	1.0		- 3			
			MN	....	....	....	....		± 1
			F	4	28	47.1						
356	April	4	P	4	34	27.1				16.1	Ditto	
			S	4	34	43.2						
			ME	4	34	43.9	0.9		- 2			
			MN	....	....	....	0.9		± 1
			F	4	35	33.3						
357	April	4	P	5	00	53.2				17.3	Ditto	
			S	5	01	10.5						
			ME	5	01	10.9	0.9		-10			
			MN	5	01	11.5	0.8		- 3			
			Mz	5	01	19.8	0.7		- 2			
F	5	02	51.0									

1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
358	April	4	P	14	10	07.2				46.0	Far off W. of Hatisyo island.	
			S	14	10	53.2						
			ME	14	10	53.2	1.2		+ 2			
			MN	....	....	....	1.2		- 2
			F	14	12	23.6						
359	April	4	P	18	33	5.22				95.3	Far off SW. of Hatisyo island.	
			eS	18	35	27.5						
			MN	18	35	27.5	3.1		+ 3			
			Mz	18	35	36.0	3.2		- 1			
			ME	18	35	55.0	3.1		+ 3			
F	....	....	....						
360	April	4	P	11	39	18.8				05.1	Local shock.	
			S	11	39	23.9						
			ME	11	39	23.9	0.6		- 6			
			MN	11	39	24.3	0.4		+ 4			
			F	11	39	59.3						
361	April	5	P	16	22	53.0				17.0	Siwobuki-zaki near Ito, Idu peninsula.	
			S	16	23	10.0						
			ME	16	23	10.0						
			MN	16	23	13.3	0.7		+ 6			
			F	16	24	13.9	0.7		+ 2			
362	April	5	P	20	30	26.3				46.8	Sea of Okhotsk. Occurred the next earth quake.	
			eS	20	31	13.1						
			MN	20	31	14.3	3.1		- 2			
			ME	....	....	....	2.6		± 2
			F	....	....	....			
363	April	5	eP	20	34	53.1				50.6	Unknown.	
			eS	20	35	43.7						
			MN	20	36	29.2	3.6		- 2			
			F	20	39	08.0						
364	April	6	P	5	20	29.8				17.8	NE. Ern sea of Tyosi.	
			S	5	20	47.6						
			NN	5	20	58.0	1.2		- 7			
			ME	5	21	01.0	1.4		+ 7			
			F	5	24	05.9						
365	April	7	P	1	31	36.9				20.1	Siwobuki-zaki near Ito, Idu peninsula.	
			S	1	31	57.0						
			ME	1	31	58.1	0.6		+11			
			MN	1	31	58.1	0.6		+ 7			
			F	1	34	22.4						

1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
366	April	7	P	1	38	51.2				16.6	Siwobuki-zaki near Ito, Idu peninsula.	
			S	1	39	07.8						
			ME	1	39	08.1	0.5	- 2				
			MN	1	39	08.4	...		- 1			
			F	1	39	54.6						
367	April	7	P	1	52	37.3				16.4	Ditto	
			S	1	52	53.7						
			ME	1	52	54.6	0.5	+ 7				
			MN	1	52	55.9	0.8		+ 3			
			F	1	54	36.1						
368	April	7	P	2	09	51.0				16.3	Ditto	
			S	2	10	07.3						
			ME	2	10	08.0	0.5	+ 1				
			MN	2	10	08.9	...		- 1			
			F	2	10	47.7						
369	April	8	P	11	35	42.6				19.5	Unknowu.	
			S	11	33	02.1						
			MN	11	36	04.2	1.1		- 2			
			ME	...	...	...	1.1	± 2	
			F	11	37	23.0						
370	April	9	P	17	36	12.2				84.6	Ditto	
			S	17	37	36.8						
			ME	17	37	48.6	1.0	+ 5				
			MN	17	37	52.1	1.0		+ 5			
			F	17	40	21.9						
371	April	9	eP	18	13	58.8				17.0	Ditto	
			eS	18	14	15.4						
			ME	...	...	...	...	± 1	
			MN	...	...	...	0.5		± 6
			F	18	14	52.3						
372	April	10	iP	8	46	58.1		+6.5	+1.4	-32.6	14.4	Lower basin of the River Naka, Totigi Prefecture. Felt moderately.
			S	8	47	12.5						
			MN	8	47	12.5	1.5		- 91			
			Mz	8	47	15.7	1.0			+ 42		
			ME	8	47	20.8	1.0	-98				
			F	8	54	58.3						

1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
373	April	12	P	20	43	01.3				11.3	Unknown.	
			S	20	43	12.6						
			ME	20	43	12.6	0.7	+ 3				
			MN	20	43	15.7	0.9		+ 3			
			Mz	20	43	16.2	0.6					- 2
			F	20	44	14.0						
374	April	13	P	15	24	49.9				16.8	Kasimnada Coast.	
			S	15	25	03.7						
			MN	15	25	15.5	0.8		- 3			
			ME	15	25	16.6	0.7	- 3				
			F	15	27	25.2						
375	April	13	eP	23	54	05.4				03.5	Local shock.	
			iS	23	54	08.9						
			ME	23	54	08.9	0.4	- 2				
			MN	23	54	08.9	0.4		+ 2			
			F	23	54	37.8						
376	April	18	P	11	20	07.8				15.0	Felt slightly. Coast of Honmoku, the bay of Tokyo.	
			S	11	20	22.8						
			MN	11	20	23.6	0.5		- 13			
			ME	11	20	28.0	0.6	- 13				
			Mz	11	20	23.3	0.6					- 10
			F	11	22	05.6						
377	April	18	eP	13	22	44.7				58.6	Far off SE of the Cape of Erimo, Hokkaido.	
			eS	13	23	43.3						
			ME	...	...	...	1.3	± 1	
			MN	...	...	...	2.3		± 3
			F	13	26	23.2						
378	April	20	P	8	10	24.5				16.4	Siwobuki-zaki near Ito, Idu peninsula.	
			S	8	10	40.9						
			ME	8	10	41.5	0.7	- 17				
			MN	8	10	41.5	0.8		+ 7			
			Mz	8	10	51.4	0.7					- 4
F	8	12	23.5									
379	April	20	P	8	47	52.5				16.7	Ditto	
			S	8	48	09.2						
			ME	8	48	09.5	0.8	- 40				
			MN	8	48	10.0	0.9					- 12
			Mz	8	48	15.8	0.9					- 6
			F	8	50	23.2						

1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
380	April	21	P	8	33	33.7		+0.0	-1.0	+1.0	06.9	The river Iinuma, Ibaraki prefecture.
			S	8	36	40.6						
			ME	8	36	42.0	0.4	± 6				
			MN	8	36	45.1	0.4		-17			
			Mz	8	38	15.2	0.4			± 4		
381	April	21	P	19	22	16.1					130.9	Far off SE. of Ottisi, Hokkaido.
			S	19	24	27.0						
			MN	19	24	53.1	1.8		-15			
			ME	19	25	24.1	2.0	- 8				
			Mz	19	26	26.2	2.9			- 5		
382	April	22	P	7	01	54.6					93.9	SE coap of Kunaziri- island, Kurile islands.
			S	7	03	28.5						
			ME	7	04	10.9	1.4	- 5				
			MN	7	04	33.9	2.2		- 5			
			F	7	07	14.7						
383	April	23	IP	11	40	42.0					05.0	Upper basin of the ri- ver Arakawa, our Prefecture.
			S	11	40	47.0						
			ME	11	40	47.0	0.9	-35				
			MN	11	40	47.0	0.5		+35			
			Mz	11	40	48.0	0.7			+10		
384	April	23	P	20	51	46.2					15.1	Kuzuyukuri coast,
			S	20	52	01.3						
			MN	20	52	01.3	1.1		- 1			
			ME	20	53	02.2	0.9	± 1				
			F	20	53	02.2						
385	April	23	eP	22	24	35.4					10.5	Unknown.
			eS	22	24	45.9						
			MN	22	24	51.7	1.6		- 2			
			ME	22	25	53.7	1.6	± 1				
			F	22	25	53.7						
386	April	24	P	6	51	53.8					146.1	Far off SE. of Ku- naziri island, Kurile islands
			S	6	54	19.9						
			ME	6	54	49.6	3.0	+28				
			Mz	6	55	14.6	3.0			+37		
			MN	6	55	26.0	3.1			+11		

1930 NO.	Month	Date	Phase	Time (135°M.S.T.)			Period s.	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		AE	AN	Az		
				μ	μ	μ						
387	April	24	P	7	53	15.3					128.7	Ditto
			S	7	54	24.0						
			ME	7	55	12.8	1.0	+ 2				
			MN	7	55	12.8	1.0		- 2			
			Mz	7	55	12.8	2.2			± 3		
388	April	24	P	9	26	37.5					123.5	Ditto
			S	9	28	42.0						
			ME	9	29	06.5	1.0	+ 2				
			Mz	9	29	33.7	2.2			- 3		
			MN	9	29	44.1	1.8			- 3		
389	April	26	P	0	07	50.0					132.6	Far off SE of Ottisi Coap.
			S	0	10	02.6						
			MN	0	10	25.3	1.3		- 4			
			ME	0	10	37.5	1.0	- 4				
			Mz	0	21	21.2	2.7			± 2		
390	April	27	P	1	24	47.2					P-S=316.0 S-L=217.1	Sea of Okhotsk.
			S	1	30	03.2						
			L	1	33	40.3						
			MN	1	34	26.3	12.5		-27			
			ME	1	37	50.2	11.3	-55				
391	April	27	eP	10	54	04.7					04.8	Lower basin of Kinu- gawa.
			iS	10	54	09.5						
			ME	10	54	09.5	0.4	+ 2				
			MN	10	54	09.5	0.4		- 2			
			F	10	54	32.7						
392	April	27	eP	12	31	49.7					04.0	Lower basin of Kokai- gawa.
			S	12	31	54.6						
			ME	12	31	55.1	0.5	- 6				
			MN	12	31	55.1	0.5		+ 7			
			F	12	33	31.1						
393	April	29	?P	3	41	38.7					P-S=228.0 S-L=303.2	Southern Ocean.
			S	3	47	06.7						
			L	3	53	12.0						
			MN	3	55	26.5	14.0		-49			
			ME	3	56	55.0	12.7	-29				
			Mz	3	58	31.1	12.4			- 4		
			F	4	20	06.0						

1930 No.	Month	Date	Phase	Time (135°M.S.T.)			Period	Amplitude			Preliminary tremors s.	Remarks
				h.	m.	s.		A _E	A _N	A _S		
				μ	μ	μ						
394	April	29	eP	1	17	02.5				P-S=3 ^m 4.4 S-L=4 ^m 3.2	Unknown	
			eS	1	22	45.9						
			eL	1	27	22.1						
			M _{EN}	...	...	...	...	± 1	± 1
			F	1	49	53.4						
395	April	29	P	16	46	22.4				12.6	Upper basin of Kinu- gawa.	
			S	16	46	35.0						
			M _N	16	46	36.7	0.6	- 2				
			M _E	16	46	38.5	0.6	+ 3				
			F	16	47	42.1						
393	April	20	iP	20	05	56.0		+2.7	-0.8	-20.6	07.6	Lower basin of Ko- kaigawa. Felt Moderate.
			S	20	06	03.6						
			M _E	20	03	03.6	0.5	+37				
			M _N	20	06	03.6	0.5	-06				
			M _S	20	06	04.8	0.7		-16			
			F	20	09	48.2						

昭和六年三月廿九日印刷

昭和六年三月卅一日發行

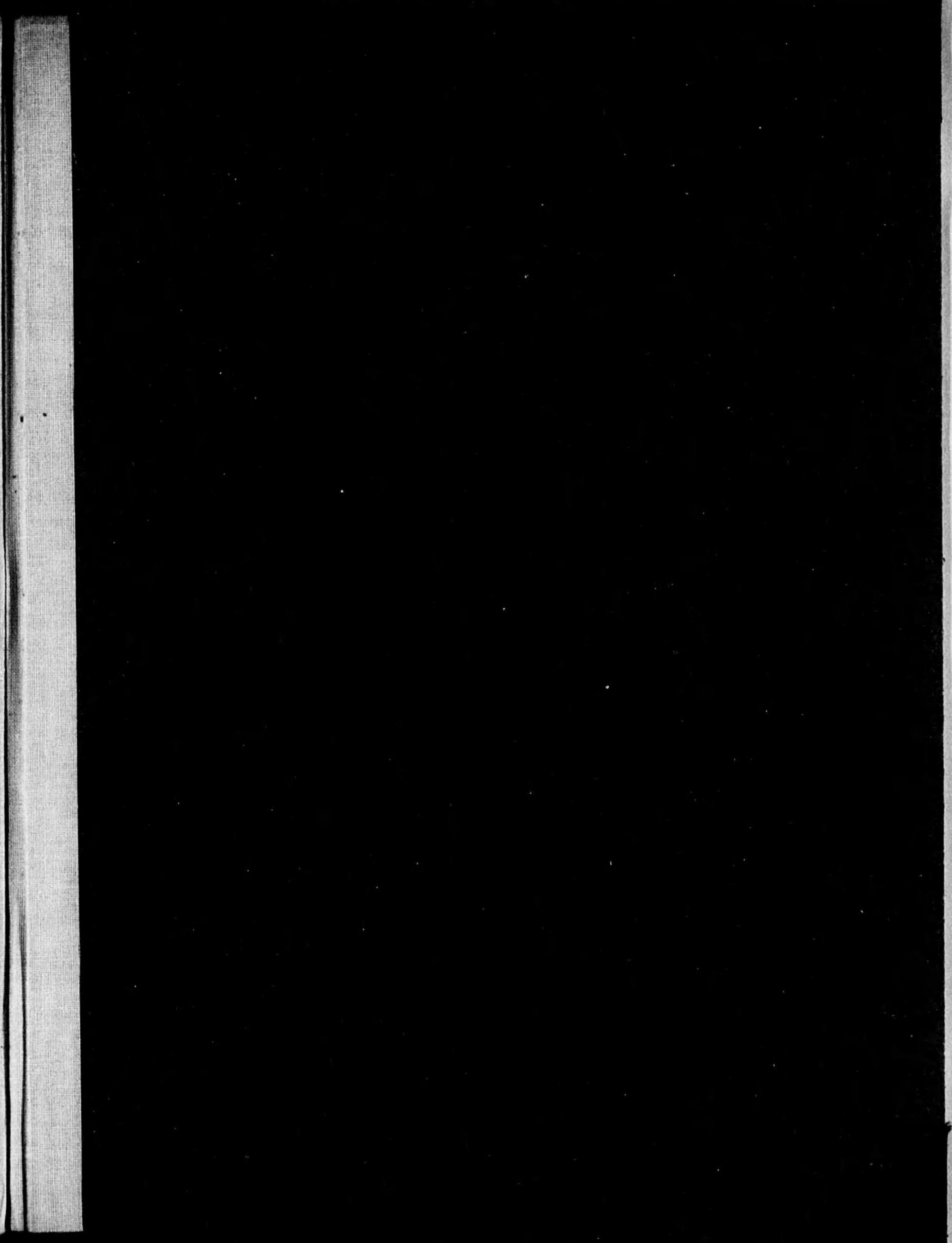
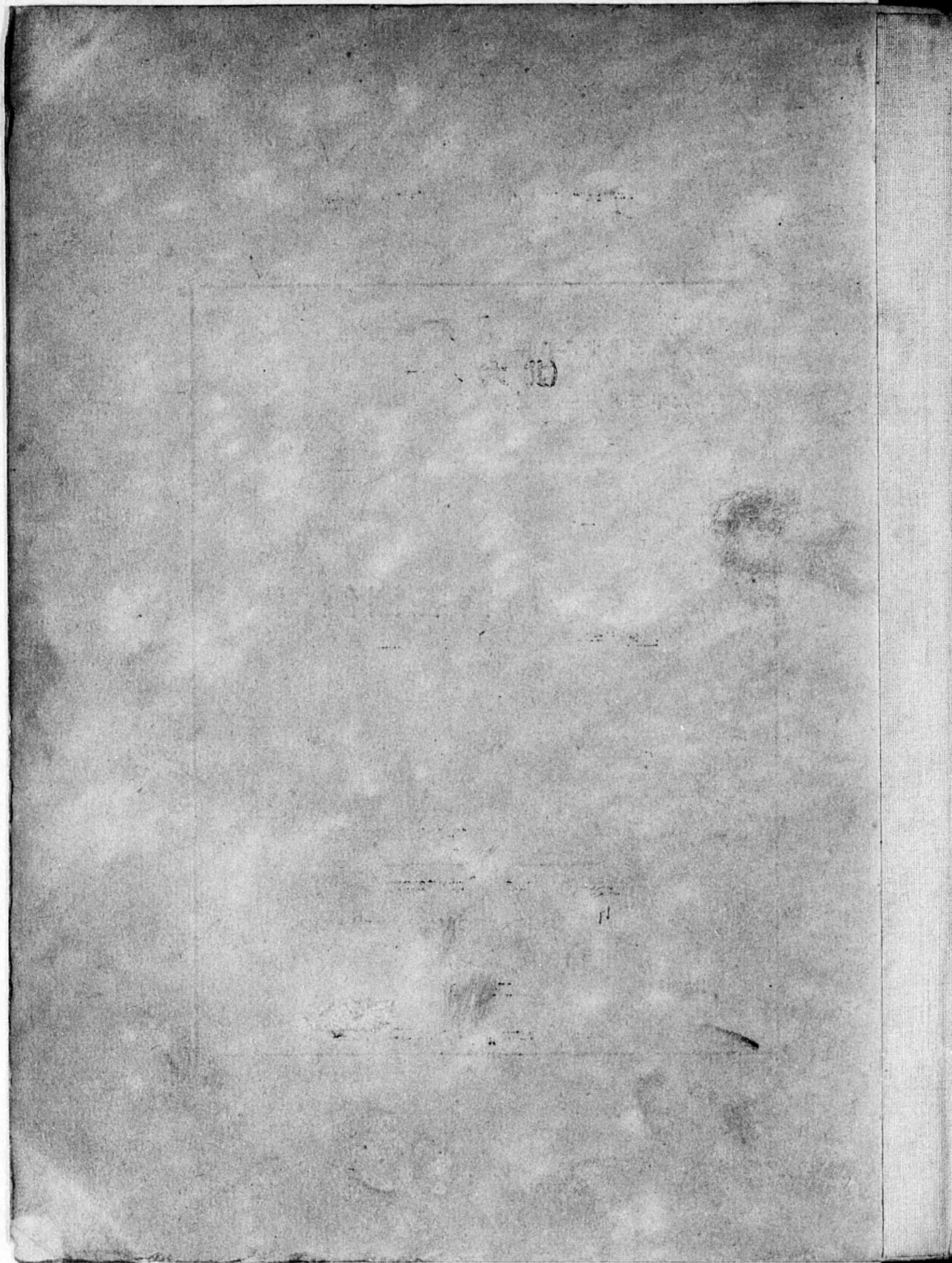
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