

Ref 2678

Year 1925, No. 1.

January 1st to 6th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.

$\phi=14^{\circ} 34' 41''$ N. $\lambda=120^{\circ} 58' 33''$ E. $h=2.40$ ms. Alluvium.

Instrument: Wiechert's astatic pendulum (1,000 Kg.)

	T_0	V	E	$\frac{F}{T_0^2}$
AN	3.01	180	1.390	0.168
AE	2.86	160	1.865	0.267

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod	Amplitude		Dis-tance	Remarks.
				h.	m.	s.		A_N	A_E		
				h.	m.	s.	s.	μ	μ	Km.	
1	1	I _v	eP L F	7	18	15 19 02 27				450	
2	1	I _v	eP F	15	46	50 55				130	
3	2	I _v	eP L	19	37	00 38 10				640	Felt at Dumaguete and Tagbilaran.
4	2	I _v	eP F	19	49	57 20 06				630	F overtaken by following quake, Felt at Dumaguete.
5	3	I	e F	8	28	9 08					Near Japan.
6	3	II _v	eP iL ME MN F	16	03	42 04 00 04 03 04 20 16	2 3	81	91	60	
7	4	I	e F	8	42	57					
8	4	I _v	eP iL F	16	12	32 12 50 20				60	Southwestern Luzon
9	5	I	e F	14	08	43					
10	5	I _v	eP F	21	59	41 22 03				310	
11	5	I	e F	22	09	31					
12	6	I _v	eP iL F	23	04	50 05 32 13				380	

Year 1925, No. 2.

January 13th to 22nd, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod	Amplitude		Dis-tance	Remarks
				h.	m.	s.		A _N	A _E		
				h.	m.	s.	s.	μ	μ	Kms.	
13	7	L _v	iP	8	46	19				180	SW Luzon.
			iL		46	39					
			MN		46	47	2	84			
			M _F F		46	56	2		81		
			F		55						
14	7	L _v	eP	17	28	31				125	
			F		31						
15	7	L _v	eP	20	52	49				480	SE Luzon.
			iL		53	42					
			F	21	02						
16	9	L _v	eP	7	03	12				480	
			iL		04	05					
			F		12						
17	9	L _v	eP	9	29	58				110	
			iL		30	10					
			F		33						
18	9	I	e	17	57						
			F	18	13						
19	9	I	e	18	21						
			F		43						
20	14	I	eL	10	56						
			F	11	11						
21	15	I _r	eP	16	55	18					
			iL		59	22					
			F	17	26						
22	18	II _r	iP	12	13	40				5760	Near Kurile Is.
			iL		29	40					
			F	14	08						
23	18	II _r	iP	20	18	55					
			iL		23	00					
			ME		23	03	5		199		
			MN		23	54	5	168			
			F		58						
24	19	L _v	eP	18	19	18				200	
			iL		19	40					
			F		26						
25	20	I _r	eP	11	04	45					
			L		06	46					
			F		19						
26	21	I	e	18	33						
			F	19	02						

2878

Year 1925, No. 3.

January 23rd to 31st, 1925.

M A N I L A . P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY,--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.
				h.	m.	s.		A _N	A _E	
27	23	I _v	eP iL F	5	58	52 50 10			530	
28	24	I _v	eP L F	0	51	55 39 00			400 Northern Luzon.	
29	26	I _v	eP L F	19	21	22 04 52			940	
30	27	I _v	eP iL F	17	27	40 57 30			150	
31	28	II _r	e iL MN ME F	4	12	45 22 46 51 32	7 7	84 84		
32	28	I	e F	18	25	19 08				
33	29	I	e F	8	52	9 09				
34	30	I _v	eP F	6	17	30 21			150	
35	30	I _v	eP iL	17	41	18 37			170 End overtaken by following quake.	
36	30	I	e? F	17	42	18 37				

Year 1925, No. 4.

February 1st to 7th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.

$\phi=14^{\circ} 34' 41''$ N. $\lambda=120^{\circ} 58' 33''$ E. $h=2.40$ ms. Alluvium.

Instrument: Wiechert's astatic pendulum (1,000 Kg.)

	T_0	V	ϵ	$\frac{r}{T_0^2}$
AN	6.04	184	1.895	0.052
AE	5.56	212	1.987	0.067

No.	Date	Char-acter	Phase	Greenwich mean time		Per-iod	Amplitude		Dis-tance	Remarks	
				h. m. s.	s.		γ_{AN}	γ_{AE}			
37	1	I _u	eP	5	31	15			5790	Kurile Islands.	
			iS		38	42					
			iL		47	25					
			MN		48	45	15	9			
			ME		49	36	15				
		F	6	55			10				
38	1	L _v	eP	18	04	00			260		
			iL		04	29					
			F		26						
39	2	II _r	eP	13	36	50			4380	Pacific, near Japan.	
			iL		48	20					
			MN		54	28	13	12			
			ME		55	37	18				
			F	14	58			16			
40	2	II _r	eP	19	54	05			4360	Pacific, Near Ja-pan.	
			iL		20	05	30				
			MN		09	59	13	14			
			ME		09	41	14				
			F	21	15			22			
41	3	II _r	eP	18	21	00			1320	Felt at Zamboanga and Jolo. N Celebes Sea.	
			iL		24	00					
			ME		25	00	11				
			MN		25	52	10	58			
			F	19	04			66			
42	4	I	e?	10	14	42					
			F		29						
43	7	I _v	eP	18	12	34			900	Pacific, E Minda-nao. End overtaken by following earthquake,	
			L		14	29					
44	7	I _r	e	18	21	07					
			iL		24	02					
			F	19	31						
45	7	I _v	eP	20	31	43			330		
			L		32	20					
			F		43						

Year 1925, No. 5.

February 8th to 24th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued,

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
				h.	m.	s.	s.	μ	μ	Km.	
46	8	I _r	eP L F	5	45	41 46 58				1110	Pacific.
47	9	I _r	eP iL F	14	20	10 14 25					
48	12	I _v	eP F	7	23	41 32				300	
49	13	I _v	eP iL MN ME	13	34	34 05 57 50				840	Pacific, NE Minda-nao. End overtaken by following earth-quake.
50	13	I _v	e L F	14	00	35 50 39				680	
51	16	I	e F	18	08	36 52					
52	16	I _v	eP F	18	29	35 32				120	
53	20	II _r	eP iL ME MN F	1	09	53 32 36 42 44	7 8	55	58	3150	Pacific, near Bon-in Island.
54	20	I _v	eP F	16	49	21 52				70	
55	20	I _v	eP F	16	56	01 58				80	
56	21	I _v	eP iL F	9	40	00 37 58				890	
57	21	I _v	eP F	18	06	04 12				230	Western Luzon.
58	21	I	e F	19	07	33					
59	22	I _v	eP F	15	57	22 00				120	
60	24	I _u	iP iL? F	0	06	00 44 19				10000?	Alaska?

Year 1925, No. 6.

February 25th to March 15th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
							s.	μ	μ	Km.	
61	25	I	e F	22	08	11					
						43					
62	25	I _v	eP iL F	23	00	35				660	
						01					
						13					
63	27	I _v	eP iL F	0	51	16				760	Felt at Surigao.
						52					
						02					

M A R C H , 1 9 2 5 .

64	1	I _u	e? M F	2	39						Canada earthquake.
						3					
						58					
65	1	I	iP F	12	27	45					
						13					
						31					
66	3	I _v	eP F	17	11	37				60	
						14					
67	6	I _v	eP iL F	12	45	00				545	
						46					
						00					
						59					
68	11	I _v	eP F	9	02	34				60	
						05					
69	11	I _v	eP F	14	12	11				160	
						14					
70	11	I _v	eP iL F	22	09	58				460	Pacific, SE Luzon.
						10					
						49					
						19					
71	14	I _r	eP iL F	14	39	45				1060	
						41					
						50					
						15					
						16					
72	14	I _v	eP iL F	18	29	02				470	NE Luzon.
						29					
						54					
						42					
73	15	I	e F	13	52	04					
						14					
						23					
74	15	I _r	eP iL F	15	46	57				1980	
						51					
						30					
						16					
						28					

Year 1925, No. 7.

March 15th to 23rd, 1925

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
				h.	m.	s.	s.	μ	μ	Km.	
75	15	I	L	23	39						
	16		F	0	11						
76	16	Ir	eP iL	14	14	25					End overtaken by following quake.
					18	40					
77	16	III _r	eP iL MN ME F	14	47	16	12 12	438	349	2190	Yun-nan, China.
					52	16					
					55	26					
					57	35					
					16	49					
78	16	Ir	eP	23	56	00					
	17		L F	0	03	12					
					31						
79	18	Ir	eP L F	14	09	09					
					14	36					
					15	17					
80	19	Ir	eP eL	15	44	15					End overtaken by following quake.
					50	00					
81	19	Iv	eP F	16	07	25				170	
					21						
82	19	I	e F	17	39						
					18	04					
83	19	Iv	eP F	21	54	12				100	
					59						
84	20	I	e F	5	54						
					6	20					
85	20	Ir	e L F	12	24	00					
					29	30					
					13	19					
86	21	I	e F	8	27						
					9	21					
87	22	II _u	eP iS iL MN ME	8	51	48	15 22	23	14	6050	New Hebridas? End overtaken by following earthquake.
					89	38					
					9	09					
					12	25					
					14	56					
88	22	Ir	e F	9	49						
					10	53					
89	22	Ir	eP iL F	14	10	54					
					15	32					
					15	13					

Year 1925, No. 8.

March 24th to April 10th, 1925

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
							s.	μ	μ	Kn.	
90	24	I _v	eP iL F	6	39	36				160	
91	25	I _v	eP F	6	29	20				160	
92	25	I	e F	12	10						
93	26	II _r	eP iL ME MN F	10	27	45	7 7	79	63	1430	Pacific, SE Minda-nao.
94	27	I	eP F	4	21	07					
95	27	I _v	eP F	19	52	45				200	
96	29	I	e F	21	32	36					
97	31	I _v	eP iL F	22	05	50				490	

A P R I L , 1 9 2 5 .

98	1	I	e M F	17	33						
99	1	I _r	eP iL F	21	13	58				1020	
100	2	I _v	eP F	13	30	00				135	
101	2	I _r	e L F	22	49	07				1010	Northern Formosa.
102	5	I _v	eP L F	5	56	51				80	Southwestern part of Luzon Island.
103	7	III _L	iP iL MN ME F	18	07	53	9 9	378		950	Eastern coast of Mindanao Island.

Year 1925, No. 9.

April 11th to 23rd, 1925.

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Character	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.	
				h.	m.	s.		A _N	A _E			
				h.	m.	s.	s.	μ	μ	Kn.		
104	11	II _r	iP	10	54	06						
			MN	11	04	06	7	21				
			ME	05	17	6		36				
			F	13	02							
105	15	I	L	13	25							
			F		38							
106	16	I _r	eP	5	41	49				1140		
			eL		44	21						
			F	6	16							
107	16	III _r	iP	19	54	24				1230	E Formosa? Felt at Santo Domingo, Ba-tanes Islands.	
			iL		56	26						
			F	22	24							
108	17	I _v	eP	11	07	21				920	Southwestern coast of Mindanao.	
			iL		09	09						
			F		52							
109	17	I _r	eP	18	12	00				1020	Felt slightly at Talacogon, E Min-danao.	
			L		14	00						
			F		27							
110	19	I _r	e	15	51	29						
			L		58	07						
			F	16	12							
111	20	I _r	eP	10	24	09				1070		
			L		26	15						
			F		51							
112	21	I _v	eP	7	46	09				140		
			F		49							
113	21	I _v	eP	16	08	42				135		
			F		41							
114	22	I _v	eP	17	53	41				450	W Samar Island.	
			L		54	31						
			F	18	03							
115	22	I _v	eP	21	09	56				190		
			F		12							
116	22	II _r	iP	23	14	41				2050		
			iS		18	00						
			iL		19	25						
			MN		19	52	7	46				
			ME		20	35	7		37			
			F	0	50							
23												

Year 1925, No. 10.

April 23rd to 30th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
				h.	m.	s.	s.	μ	μ	Km.	
117	23	II _r	iP	19	34	58				1040	Southeastern Min- danao.
			iL		37	00					
			ME		37	19	6		59		
			MN		37	30	6	72			
			F	20	43						
118	24	I _v	eP	10	26	00				750	Northeastern Min- danao.
			L		27	22					
			F		38						
119	24	I _v	eP	12	24	27				560	Felt slightly at Calbayog.
			L		25	29					
			F		37						
120	25	I _r	e	9	22	12					
			F	10	12						
121	25	I _r	eP	13	27	34					
			L?		35	15					
			F	14	52						
122	26	I	e	7	17						
			F		43						
123	26	I	e	8	36	42					
			F	9	45						
124	27	I _v	eP	2	06	28				400	
			L		07	12					
			F		25						
125	27	I	e	6	56						
			F	7	27						

Philippines

Year 1925, No. 11.

May 1st to 5th, 1925.

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.

$\phi=14^{\circ} 34' 41''$ N. $\lambda=120^{\circ} 58' 33''$ E. $h=2.40$ ms. Alluvium.

	T_0	V	ϵ	$\frac{r}{T_0^2}$
AN	6.04	184	1.895	0.052
AE	5.56	212	1.987	0.067

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		AN	AE		
				h. m. s.			s.	μ	μ	Km.	
126	1	I	e F	3	55						
127	1	Iv	eP F	10	33	02				120	
128	3	II Ir	iP iL MN ME F	17	25	10	6 6	231	252	1220	Pacific, SE Min- danao.
129	3	I	e	23	11	00					
	4		F	1	26						
130	4	Iv	eP iL F	4	03	57				675	
131	4	Ir	eP eL F	9	45	25					
				10	14						
132	4	Ir	e L F	11	35	00					
				12	13						
133	5	III Iv	iP iL MN ME	10	07	24	6 6	462	396	600	S Negros Island; end Overtaken by following earth- quake.
				08	30						
				08	54						
				09	00						
134	5	II Iv	iP iL	10	42	00				580	Aftershock of the No. 133.
				43	04						
135	5	Iv	iP	11	01	00				580	Do.
136	5	III Iv	iP iL	12	00	33				650	Do.
				01	44						
137	5	Iv	iP iL F	12	46	38				640	Do.
				47	48						
				14	04						
138	5	Iv	eP F	16	24	58				590	Do.
				17	06						
139	5	Iv	eP F	18	17	48				580	Do.
				19	12						

Year 1925, No. 12.

May 5th to 14th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
				h.	m.	s.	s.	μ	μ	Km.	
140	5	I _v	e eP eL F	23	22	44				570	
	6			1	08						
141	6	I _v	eP F	5	01	55				580	
					54						
142	6	I _v	eP F	8	47	56				910	
					9	22					
143	6	I _v	eP F	9	56	39				390	
				10	17						
144	6	I _v	eP F	16	00	42				590	Aftershock of the No. 133.
					23						
145	6	I _v	eP F	16	27	43				580	Do.
					47						
146	6	I _v	eP F	17	05	37				580	Do.
					29						
147	6	I _v	eP F	19	07	38				630	Do.
					21						
148	7	III _v	iP iL ME MN F	12	12	50				600	Pacific, E of SE Luzon Island.
					13	55	5				
					14	58	5	250	193		
					15	29					
					13	55					
149	7	III _v	iP iL ME MN F	14	35	17				770	Pacific, E of SE Luzon Island.
					36	47	6				
					37	24	6	435	289		
					37	52					
					16	52					
150	7	I _v	eP F	18	41	50				640	Pacific, E of SE Luzon Island.
					19	05					
151	8	I _v	eP F	10	23	08				660	Aftershock of the No. 133.
					11	07					
152	8	I _v	eP F	13	44	22				630	Do.
					14	09					
153	8	I _v	eP F	22	48	25				800	
					23	10					
154	9	I _v	eP F	3	41	10				580	
					4	33					
155	9	I _v	eP F	15	29	11				660	Do.
					52						
156	10	I _v	eP F	3	04	44				500	
					26						
157	13	I _v	eP iL F	8	14	37				690	
					15	53					
					36						
158	14	I _r	eP eL F	0	00	21					
					10	00					
					42						

Year 1925, No. 13.

May 14th to 24th, 1925.

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
				h.	m.	s.	s.	μ	μ	Km.	
159	14	Iv	iP iL F	15	21	51 23 05 16 11				675	
160	14	Iv	eP F	16	24	58 46				730	
161	15	Iv	eP F	8	38	54 46				490	NE Luzon.
162	16	Iv	eP F	2	26	37 33				210	Western part of Lu- zon.
163	16	Iv	eP L F	10	34	47 36 05 11 09				710	
164	17	Iv	eP F	1	18	48 33				660	
165	17	Iv	eP F	21	09	25 15				315	
166	18	Iv	eP F	6	21	02 27				160	
167	19	Ir	e F	5	35	43 7 04					
168	19	Iv	eP iL F	23	11	25 12 20 32				500	
169	20	Ir	eP iL F	11	10	28 16 00 12 45				2370	Near Japan.
170	20	I	e F	22	52	50 23 46					
171	22	Ir	eP iL F	9	45	57 52 03 10 54					
172	23	IIr	eP iS iL MN F	2	15	00 19 28 21 34 22 06 3 54	7	51		2820	Japan.
173	23	Iv	eP F	6	30	52 44					
174	23	Iv	eP F	7	37	34 56					Near Formosa.
175	23	Ir	eP F	21	58	43 22 21					
176	24	IIr	eP F	1	26	51 2 24					
177	24	Iv	eP F	21	01	44 06				280	

M A N I L A , P , I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per- s.	Amplitude		Dis- tance	Remarks.
				h.	m.	s.		AN	AE		
								γ	μ	Km.	
178	25	IIIId	eP iL	3	43	46 44 17				280	Tablas Island. Maxi- ma & end lost by the force of the shock.
179	25	Iv	eP	5	03	39				240	Aftershock of the No. 178.
180	25	Iv	eP F	5	07	44 17				250	
181	25	Iv	eP F	5	18	02 25				250	
182	25	Iv	eP F	9	53	03 10 01				660	Aftershock of the No. 133.
183	25	Ir	eP F	16	27	49 17 06				2670	Near Osaka.
184	25	Iv	eP F	17	08	32 16				260	
185	25	Iv	eP F	18	29	00 36				235	Aftershock of the No. 178.
186	25	Iv	eP F	18	38	25 43				240	Do.
187	26	IIv	eP iL F	4	19	28 19 59 45				280	Do.
188	26	Iv	eP F	9	10	25 17				260	
189	26	Iv	eP	15	04	31				230	Do.
190	26	Iv	eP	15	07	44				280	
191	26	IIv	iP iL F	15	03	49 09 20 34				280	Do.
192	26	Ir	eP iL F	15	39	16 42 20 17 04				1380	Formosa.
193	26	Iv	eP eL	16	12	45 13 13				250	Aftershock of the No. 178.
194	26	Iv	eP eL	16	27	09 27 33				260	Do.
195	26	Iv	eP F	18	46	02 52				290	
196	26	Iv	eP F	20	11	03 16				240	Do.
197	27	Ir	eP iL F	2	35	00 38 58				1770	Near Japan. End overtaken by fol- lowing quake.
198	27	I	eP F	3	17	27 52				480	
199	27	Iv	eP F	12	45	41 50				130	
200	28	Ir	e F	6	07	18 7 24					
201	28	Iv	eP F	23	47	21 51				110	
202	31	Iv	eP F	8	38	04 53				500	Felt at Tacloban (NE Leyte).

Year 1925, No. 15

June 1st to 11th, 1925.

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.

$\phi=14^{\circ} 34' 41''$ N. $\lambda=121^{\circ} 58' 33''$ E. $h=2.40$ ms. Alluvium.

Instrument: Wiechert's astatic pendulum (1,000 Kg.)

	T_0	V	ϵ	$\frac{r}{T_0^2}$
A_N	6.04	184	1.895	0.052
A_E	5.56	212	1.937	0.067

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A_N	A_E		
						s.	μ	μ	Kn.		
203	2	I	e F	5	25						
204	3	III _V	iP iL MN ME F	4	37	18	5 5	262	255	370	
205	3	I _V	eP iL F	6	58	54				400	
206	4	I _r	eP L? F	1	22	49					
207	4	I	e F	7	29						
208	4	I	e F	12	30						
209	4	I	e F	19	12						
210	8	I	e F	0	02	30					
211	9	III _r	iP iS iL MN ME F	13	46	18	7 8	196	127		
212	9	I _V	eP L F	19	03	00				310	Felt in Romblon I.
213	9	I _V	eP F	20	38	13				330	Felt in Romblon I.
214	11	I _V	eP F	12	59	12				140	

Year 1925, No. 16.

June 11th to 23rd, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
				h.	m.	s.	s.	"	"	Km.	
215	11	I _r	eP iL F	16	02	24 42 51					
216	12	II _r	eP iL F	11	04	29 40 47					
217	13	I _r	eP L F	21	57	00 17 28					
218	14	I _r	eP L? F	5	41	00 00 48					
219	14	I	e F	6	53	7	22				
220	14	I	e F	13	43	14	24				
221	14	L _v	eP L F	16	04	28 02 48				880	
222	15	I	e F	9	17	48					
223	16	L _v	eP F	2	34	41 39				125	
224	16	L _v	eP F	14	18	43 30				705	
225	19	L _v	eB L F	8	08	50 32 42				380	Panay Island.
226	19	L _v	eP L F	9	54	00 40 18				560	
227	20	I _r	e iL F	13	12	49 37 58					
228	20	L _v	eP F	19	53	27 00				210	
229	21	I	e F	4	10	44 06					
230	22	I	e F	22	23	25 39					

Year 1925, No. 17.

June 24th to 30th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Distance.	Remarks.
				h.	m.	s.		A _N	A _E		
							s.	μ	μ	Kn.	
231	24	I _v	eP F	7	15	15				180	
232	27	I _v	eP F	12	56	51				190	
233	28	I _u	e eP L? M F	1	35	38				13000?	
				2	18	45					
				3	44						
234	28	I _r	eP iL F	6	17	55					
					23	14					
				7	08						
235	28	II _v	eP iL ME MN	7	56	36				270	Romblon Island. End overtaken by following earthquake.
					57	06					
					57	14	3		79		
					57	33	3	77			
236	28	I _v	eP iL F	8	03	42				280	Romblon Island.
					04	13					
					28						
237	28	I _v	eP iL F	8	53	39				280	Near Romblon I.
					39	10					
					53						
238	28	I _r	eP L?	13	41	40					End overtaken by following quake.
					56	45					
239	28	I _v	eP iL F	14	02	52				530	
					03	50					
					17						
240	29	I _u	e L? F	15	00					12000?	California.
					41	00					
				16	38						
241	29	I _v	eP iL F	17	06	02				90	
					06	12					
					12						
242	29	I _v	eP iL F	17	37	01				315	Felt in Romblon I.
					37	36					
					45						
243	30	I _v	eP L F	2	15	48				770	Northern Agusan Valley.
					17	12					
					23						
244	30	I _v	eP F	4	34	46				150	
					39						
245	30	I _v	eP F	6	36	17				140	
					39						

Year 1925, No. 13.

July 1st to 17th, 1925.

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
				h.	m.	s.	s.	μ	μ	Km.	
246	4	I _r	iP iL? F	9	17	43 23 30 10 00					
247	4	I _v	eP F	14	35	58 45				620	Off E coast of Sa-mar Island.
248	4	I _r	eP iL F	22	20	30 23 54 23 02					
249	7	I _v	eP F	5	29	06 33				225	
250	7	I _v	iP iL F	10	03	18 04 26 21				620	Off E coast of Sa-mar Island.
251	8	II _v	eP iL MN ME F	8	26	56 28 10 28 32 28 44 49	6 6	32	53	675	Off E coast of Sa-mar Island.
252	8	III _v	eP iL MN ME F	23	45	32 46 20 46 37 47 00 58	3 4	128	200	435	Off W coast of Ilo-cos Sur.
253	9	I _v	eP iL F	23	31	49 32 04 36				130	
254	15	I _v	eP iL F	7	36	48 37 49 49				550	Heavy micros. on 11th and 12th. Samar Island.
255	15	I _v	eP iL F	9	05	32 06 40 15				620	
256	15	I _v	eP F	9	52	23 56				260	
257	17	II _r	iP iL MN ME F	5	13	38 23 53 25 00 25 38 5 08	6 8	49	34		Pacific.
258	17	I _v	eP F	12	18	18 22				160	
259	17	I _r	eP L F	17	05	00 10 07 53					
260	17	I _r	iP iL F	21	13	15 18 08 22 30					

Year 1925, No. 19.

July 17th to 31st, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		AN	AF		
261	17	I _r	eP	22	35	38					
	18		iL? F		40	42 0 24					
262	18	I	e F	13	19	42					
263	19	I _v	eP F	8	55	00 9 01			160		
264	19	I _r	e L? F	20	34	42 38 30 21 24					
265	19	I _v	eP L F	21	44	32 46 23 22 04			945		
266	20	I _v	eP L F	11	02	00 03 34 16			870		
267	22	I _v	eP F	4	47	38 54			125		
268	22	I _v	eP L F	10	09	10 10 42 30			850		
269	24	II _v	iP iL F	13	24	21 24 43 34			200		
270	27	I _v	eP iL F	0	03	49 04 55 16			600		
271	28	I _v	eP iL F	4	41	44 42 35 5 09			460		

Year 1925, No. 20.

August 1st to 18th, 1925..

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.

$\phi=14^{\circ} 34' 41''$ N. $\lambda=121^{\circ} 58' 33''$ E. $h=2.40$ ms. Alluvium.

Instrument; Wiechert's astatic pendulum (1,000 Kg.)

	T_0	V	ϵ	$\frac{r}{T_0^2}$
A_N	6.04	184	1.895	0.052
A_E	5.56	212	1.987	0.067

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A_N	A_E		
						s.	μ	μ	Km.		
272	1	I_r	eP L F	15	28	48 31 17 47				1140	Pacific, SE Minda-nao.
273	1	I_v	eP F	22	16	43 19				110	
274	4	I_v	eP F	23	11	15 17				130	
275	6	I	e F	14	27	44 15 12					
276	7	I	e F	8	12	25 9 31					
277	8	I_v	eP F	3	00	14 14				650	
278	8	I	L F	14	40	58					
279	8	I_v	eP L F	16	37	21 37 51 52				270	Western part of Lu-zon.
280	9	I_v	eP F	9	08	44 16				240	
281	9	I	e F	12	41	13 08					
282	14	I	e F	4	27	5 06					
283	14	I_v	eP L? F	6	26	25 28 22 48				990?	
284	14	I	iP F	9	21	00 44					
285	14	I_v	eP F	13	27	47 31				130	
286	17	I	e F	9	23	30 34					

Year 1925, No. 21.

August 19 to September 8, 1925.

MANILA . P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.---Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
287	19	III _r	eP iL MN MN F	12	17	05 24 00 26 07 26 58 12 58		40	39	2880	Near Japan?
288	19	I _v	eP iL F	18	07	09 08 12 21				570	
289	19	I	eL? F	20	54	21 02					
290	21	II _v	iP iL MN ME F	20	15	28 16 37 16 41 16 54 46	5 5	182	310	630	
291	23	I _v	eP iL F	8	01	03 01 54 14				460	
292	30	I _v	eP eL F	5	09	14 09 58 18				400	
293	3L	I _r	eP eL? F	10	12	40 17 00 39					

SEPTEMBER, 1925.

294	5	I	e? F	16	42	17 22					From Sept. 1st to 5th heavy micros.
295	6	I _v	e F	4	34	44					Southeastern part of Mindanao.
296	6	I	c F	9	04	31					
297	7	I _v	eP iL F	18	49	09 49 52 19 06				390	
298	7	I _r	eP iL F	19	29	51 31 50 48				1010	
299	8	I _r	eP L F	1	41	20 43 18 2 04				1000	

Year 1925, No. 22.

September 9th to 21st, 1925.

MANILA. P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance	Remarks.
				h.	m.	s.		A _N	A _E		
				h.	m.	s.	s.	μ	μ	Km.	
300	9	I	e F	0	56	11					
301	9	I _r	eP iL ME MN F	22	43	32				1320	
					46	25	7	54	28		
					47	06	9				
					47	25					
					23	28					
302	10	I _r	eP iL F	13	04	00					
					09	17					
					47						
303	11	I _r	iP iL F	5	11	42				1080	
					14	02					
					49						
304	11	I	L F	23	49	18					
					58						
305	12	I _v	eP iL F	6	47	45				580	
					48	51					
					7	16					
306	13	I	e F	7	06	50					
					24						
307	13	I	e F	8	07						
					16						
308	15	II _v	eP iL MN ME F	20	55	04				750	Pacific, Philippine Deep.
					56	26	5	50			
					56	50	5		57		
					57	19					
					21	56					
309	17	III _v	eP iL MN1 ME1 ME2 MN2 ME3 MN3 F	22	47	12				470	China Sea.
					48	04	6	163			
					48	31	6		112		
					48	39	6		143		
					49	13	6				
					50	11	6	231			
					51	08	6		307		
					51	13	5	288			
					23	13					
310	18	I _v	eP iL F	11	42	34				570	Felt slightly at Catbalogan.
					43	37					
					12	16					
311	20	I _r	eP L? F	7	22	33					
					29	00					
					51						
312	21	I _v	eP F	11	52	38				50	
					56						

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod	Amplitude		Dis-tance	Remarks.
				h.	mm.	s.		AN	AE		
313	22	Iv	eP iL ME MN F	6	10	15 36 13 24 41			740		
							4 6	19	32		
314	25	Iv	eP L	8	51	13 25			660	End overtaken by following quake.	
315	25	Ir	eP L? F	9	01	31 08					
316	25	IIv	eP iL ME MN F	19	38	54 25 36 30 42	7 6	64	840		
317	26	I	e F	0	01	34 29					
318	26	Iv	eP iL F	6	49	45 00 38			680		
319	26	Iv	eP F	11	35	56 56			590		
320	26	Iv	eP	17	37	27			710	Pacific, Philippine Deep. End overtaken by following quake.	
321	26	IIv	eP iL MN ME	17	46	19 43 12 20	6 6	71	770	Pacific, Philippine Deep. End overtaken by following quake.	
322	26	Iv	eP iL	18	04	18 37			720	Aftershock of the No. 321. End overtaken by following quake.	
323	26	Iv	eP iL ME MN F	18	17	00 17 31 38 57	6 5	30	705	Aftershock of the No. 321.	
324	28	IIv	eP iL ME MN F	7	11	36 00 51 34 29	6 6	111	220	Western part of Luzon.	

Year 1925, No. 24.

September 29th to 30th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		N	E		
				h.	m.	s.	s.	μ	μ	Km.	
325	29	III _v	eP	18	09	29				315	Western part of Lu- zon. End overta- ken by following earthquake.
			iL		10	04					
			ME1		10	29	5		153		
			MN1		11	14	4	163			
			ME2		11	41	4		189		
			MN2		12	31	4	285			
326	29	II _v	eP	18	23	39				310	Aftershock of the No. 325.
			iL		24	13					
			MN		24	29	5	48			
			ME		24	30	5		128		
			F		42						
327	29	Iv	eP	21	08	48				230	Aftershock of the No. 325.
			iL		09	14					
			F		18						
328	30	Iv	eP	2	20	22				760	Northeastern coast of Mindanao.
			iL		21	45					
			MN		22	59	5	20			
			ME		23	02	5		19		
			F		44						

Year 1925, No. 25.

October 1st to 9th, 1925.

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.

$\phi=14^{\circ} 34' 41''$ N. $\lambda=120^{\circ} 58' 33''$ E. $h=2.40$ ms. Alluvium.

Instrument: Wiechert's astatic pendulum (1,000 Kg.)

	T_0	V	ϵ	$\frac{p}{T_0^2}$
A _N	6.04	184	1.895	0.052
A _E	5.53	212	1.987	0.067

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
329	1	II _v	eP	8	23	27				230	Western part of Luzon. End over-taken by follow-ing earthquake.
			iL		23	53					
			MN1		24	17	4		94		
			MN1		24	24	4	101			
			ME2		25	43	4		125		
330	1	I _v	eP	8	28	00				240	Western part of Luzon.
			iL		23	27					
			ME		28	41	4		75		
			MN		28	59	4	78			
			F		52						
331	1	I _v	eP	10	53	00				270	
			F		11	00					
332	2	I _v	eP	2	25	52				420	
			iL		26	38					
			F		36						
333	2	I _v	eP	4	39	14				320	
			iL		39	50					
			F		52						
334	2	I _v	eP	6	00	25				210	
			F		04						
335	3	I _v	eP	3	14	29				140	
			iL		14	45					
			F		19						
336	3	I _v	eP	15	01	02				410	
			eL		01	47					
			F		18						
337	4	I _v	eP	2	53	52				90	
			F		57						
338	4	I _v	eP	13	51	33				790	Butuan Bay.
			F		14	02					
339	4	I _v	eP	16	47	33				510	
			F		17	04					
340	5	I	e	4	28	26					Central America.
			F		5	21					

Year 1925, No. 26.

October 10th to 22nd, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.-Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		AN	AG		
				h.	m.	s.	s.	μ	μ	Kn.	
341	10	Iv	iP iL F	10	13	46 14 10 19				220	Heavy micros. on 10th.
342	11	Iv	eP iL F	6	54	39 55 02 59				210	Heavy micros. on 11th.
343	12	I	e F	5	58	6 19					SE Madagascar. Heavy micros. on 12th.
344	12	IIv	iP iL MN ME F	19	40	13 37 39 40 45	3 3	113	66	220	
345	13	II	i F	18	00	47 19 34					Atlantic Ocean.
346	14	I	e? F	17	10	46 42					
347	15	Iv	eP iL F	2	26	07 26 22 31				130	
348	15	IIr	eP iL ME MN F	12	41	32 49 12 52 00 52 09 13 22	10 10	18	17		
349	15	Iv	eP iL F	16	57	44 58 06 17 02				200	
350	17	Iv	eP F	22	04	23 10				120	
351	18	IIr	iP iL ME MN F	8	29	00 31 24 31 30 31 32 10 02	6 7	96	73	1120	Pacific.
352	19	Iv	eP F	15	12	01 15				120	
353	20	I	e F	9	47	45 10 04					
354	20	Iv	eP F	16	52	26 17 02				435	
355	22	Iv	eP F	7	45	28 49				230	

Year 1925, No. 27.

October 22nd to November 5, 1925.

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY. --Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				H.	m.	s.		A _N	A _E		
356	22	II _r	eP	17	07	23	7	52	45		
			iS		10	46					
			iL		11	56					
			MN		12	44					
			ME		13	02					
		F	18	06							
357	23	II _r	eP	1	53	12	6	31	23	Heavy micros. on 23rd.	
			iL?		55	56					
			iL?		56	19					
			MN		57	41					
			ME		57	43					
		F	2	36							
358	23	I _v	eP	11	52	30			110	Very heavy micros. on 24th.	
			F		56						
359	25	II _r	eP	0	24	13					
			iL?		26	53					
			F		57						
360	25	I _v	eP	5	27	00			90	Heavy micros. on 25th.	
			F		29						
361	26	I _v	eP	23	25	06			120		
			F		28						
362	30	I _v	eP	5	49	33			90	Micros. on 28th and 29th.	
					52						
363	30	I	e?	11	07					Slightly felt at Zamboanga.	
			F		26						
364	30	I	e?	15	00					Heavy micros. on 30th and 31st.	
			F		22						
365	31	I	e?	19	39						
			F	20	02						
366	31	I _v	eP	20	59	55			610	Dumaguete (SE Negros).	
			L	21	01	02					
			F		12						

NOVEMBER, 1925.

367	3	I	e	1	02	47				
			F		16					
368	3	I _v	eP	17	15	58			320	Micros. on the 1st, 2nd and 3rd.
			F		21					
369	5	I _r	eP	12	09	21	13	8	6	
			iL?		15	00				
			MN		15	35				
			ME		15	55				
			F	13	03	12				

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		AN	AM		
				h.	m.	s.	s.	μ	μ	Km.	
370	6	Iv	eP iL F	17	20	27				400	
371	9	I	e F	22	50						
				23	17						
372	10	Iv	eP iL F	10	56	51				315	
					57	25					
				11	02						
373	10	I II	i(P) F	13	54	46					
				17	51						
374	11	Iv	eP F	3	00	00				370	
					11						
375	11	IIv	eP iL ME MN F	7	19	15				180	SW Luzon.
					19	35	3				
					19	39	3	53	50		
					19	49					
					32						
376	13	IIIId	iP iL	12	16	01				510	Pacific, NE Samar Island. Maxima and end lost by the force of the shock.
					16	57					
377	13	Iv	iP	12	40	54				510	Aftershock of the No. 376.
378	13	Iv	iP	12	43	14				510	Do.
379	13	IIv	iP	12	45	42				510	Do.
380	13	Iv	iP	12	59	00				510	Do.
381	13	Iv	iP	13	26	51				510	Do.
382	13	Iv	iP	13	38	27				510	Do.
383	13	Iv	iP iL	13	50	07				620	Do.
					51	16					
384	13	IIv	iP iL	14	02	08				540	Do.
					03	07					
385	13	Iv	iP	15	24	59				530	Do.
386	13	IIv	iP iL	15	52	46				570	Do.
					53	49					
387	13	IIv	iP iL	16	08	16				550	Do.
					09	16					
388	13	Iv	eP F	16	40	27				560	Do.
					52						
389	13	Iv	eP F	16	59	34				560	Do.
					17	16					
390	13	Iv	eP F	18	42	29				510	Do.
					53						

Year 1925, No. 29.

November 13th to 14th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		AN	AE		
				h.	m.	s.	s.	μ	μ	Km.	
391	13	Iv	eP F	22	47	01 54				520	Aftershock of the No. 376.
392	13	Iv	eP F	23	31	31 46				530	Do.
393	14	Lv	eP iL F	0	14	24 15 43 33				720	
394	14	IIv	eP iL F	1	07	41 08 48				610	Do.
395	14	Iv	eP eL	1	23	47 24 44				520	Do.
396	14	Iv	eP F	3	01	31 09				530	Do.
397	14	Iv	eP iL F	3	54	04 55 11 4 21				610	Do.
398	14	Iv	eP F	5	47	08 6 08				540	Do.
399	14	Iv	eP F	7	44	13 51				540	Do.
400	14	IIIv	iP iL ME MN	8	12	00 13 14 14 18 14 20	6 6	356	259	675	Do.
401	14	Iv	iP iL	8	57	57 59 04				610	Do.
402	14	IIv	iP iL	10	04	44 05 54				640	Do.
403	14	Iv	eP eL	10	39	37 40 31				490	Do.
404	14	IIIv	iP iL MN ME	14	38	15 39 26 39 51 39 56	5 5	288	245	640	Do.
405	14	Iv	eP iL	15	34	25 35 24				540	Do.
406	14	Iv	eP eL	15	51	09 52 09				550	Do.
407	14	Iv	eP iL F	16	39	56 41 00 17 02				580	Do.
408	14	Lv	eP F	19	01	13 08				530	Do.

Year 1925, No. 30.

November 14th to 17th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
409	14	I _v	eP F	20	18	09 25			550	Aftershock of the No. 376.	
410	15	I _v	eP iL	6	28	00 29 05			590	Do.	
411	15	I _v	eP F	6	38	55 40			600	Do.	
412	15	I _v	eP iL F	6	51	30 52 35 7 05			590	Do.	
413	15	I _v	iP iL F	8	04	12 05 16 29			580	Do.	
414	15	I _v	eP F	14	02	55 10			540	Do.	
415	15	I _v	eP F	14	37	00 46			540	Do.	
416	15	I _v	eP F	15	39	13 48			570	Do.	
417	16	I _v	eP F	0	10	29 32			580	Do.	
418	16	I _v	e F	0	44	58					
419	16	I _v	eP F	4	37	56 49			600	Do.	
420	16	I _v	eP F	5	46	25 6 01			590	Do.	
421	16	I _v	eP F	8	19	06 30			610	Do.	
422	16	I _v	eP eL	12	15	02 16 13			650	SE Negros Island.	
423	16	I	e? M F	12	25	56 14 02				Near Central Amer- ica.	
424	16	I _v	eP F	19	09	36 19			570	Aftershock of the No. 376.	
425	17	I	e F	0	38	1 16					
426	17	I _v	eP F	4	30	14 37			150		
427	17	I _v	eP F	5	20	34 27			590	Do.	
428	17	I _v	eP F	5	54	12 6 01			550	Do.	
429	17	I _v	eP eL F	8	07	31 08 38 38			610	Do.	

Year 1925, No. 31.

November 17th to 24th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.---Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks
				h.	m.	s.		^A N	^A E		
				h.	m.	s.	s.	¹	¹	Km.	
430	17	Iv	eP iL F	17	16	14 28 55				675	
431	17	Iv	eP iL F	23	14	55 00 58				590	Aftershock of the No. 376.
432	18	Iv	eP iL F	11	45	32 57 12 04				590	Do.
433	18	Iv	eP iL F	13	45	40 42 14 05				560	Do.
434	18	Iv	eP F	15	20	00 38				570	Do.
435	19	Ir	eP iL F	14	10	28 00 15 58				1560	
436	19	Iv	eP iL F	19	23	46 45 45				540	Do.
437	21	Iv	eP F	6	00	15 13				550	Do.
438	21	Iv	eP iL F	23	16	41 00 43				720	
439	22	ILv	eP iL ME MN F	0	07	00 09 14 37 11	4 4	86	108	630	Do.
440	22	Iv	eP F	1	15	27 29				590	Do.
441	22	Iv	eP F	4	23	46 30				520	Do.
442	22	Iv	eP F	20	36	50 02				560	Do.
443	23	Iv	eP F	9	54	02 37				240	
444	23	Iv	eP F	17	59	28 07				530	Do.
445	23	Iv	eP F	23	06	55 17				540	Do.
446	24	Iv	eP F	6	08	19 15				570	Do.
447	24	Iv	eP iL F	15	24	38 58 42				730	

Year 1925, No. 32.

November 24th to Dec. 3rd, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
448	24	I _v	eP iL F	17	22	19 23 35			630		
449	24	I _v	eP F	17	42	46 51			150		
450	25	II _v	eP iL MN ME F	12	18	50 19 56 20 04 20 07 13 04	4 5	81 81	600	Aftershock of the No. 376.	
451	25	I _v	eP F	14	11	48 18			180		
452	26	I _v	eP F	11	58	00 12 05			510	Do.	
453	26	I _v	e F	15	57	16 08				Near Japan?	
454	27	I _v	eP L	8	39	29 40 37			620	Aftershock of the No. 376.	
455	27	I _v	eP F	8	48	19 55			600	Do.	
456	27	I _v	eP F	10	22	57 42			570	Do.	
457	28	I _v	eP F	4	47	35 50			180		
458	28	I _v	eP L F	5	49	18 50 30 6 12			660		
459	28	I _r	eP iL? F	16	22	59 31 00 17 27					
460	28	I _v	eP F	17	47	46 52			220		
461	29	I _v	eP F	19	49	41 54			350	NW Luzon.	
462	30	I _v	eP F	12	05	53 16			610		
463	30	I _r	eP L F	17	50	25 53 29 18 21					

D E C E M B E R , 1 9 2 5 .

464	1	I _v	eP iL F	7	10	29 11 30 19			550	Aftershock of the No. 376.
465	2	I _v	eP F	4	59	18 5 03			190	
466	3	I _v	eP iL F	4	06	30 06 46 10			140	

Year 1925, No. 33.

December 4th to 12th, 1925.

M A N I L A , P . I .

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.---Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				n.	m.	s.		A _N	A _E		
467	4	I _v	eP iL F	3	16	15 17 22		μ	μ	510	
468	4	I _v	eP iL F	4	34	25 35 40				540	Aftershock of the No. 376.
469	5	II _v	eP iL ME MN F	7	28	55 30 30 30 50	5 6	47	52	590	Sulu Sea.
470	6	I _v	eP iL F	19	06	02 53 15				480	
471	6	L _v	eP iL F	23	54	34 55 30				510	
472	7	I	e F	8	49	59					Trace only.
473	7	I	e F	9	02	28 22					
474	8	L _v	eP iL F	22	16	23 24 28				550	NE Luzon.
475	9	I _v	eP F	2	41	21 46				480	
476	9	L _v	eP iL F	19	00	09 01 11				460	
477	10	I	e F	14	36	16 38					Central America.
478	10	I _v	eP iL F	19	09	35 53 17				160	
479	11	I	e F	0	57	1 08					Trace only.
480	11	I	e F	16	55	17 05					Trace only.
481	11	L _v	eP L F	19	27	00 28 43				550	
482	12	I _v	eP iL F	8	40	29 41 58				490	

Year 1925, No. 34.

December 13th to 29th, 1925.

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod.	Amplitude		Dis-tance.	Remarks.
				h.	m.	s.		A _N	A _E		
483	13	II _v	eP iL ME MN F	5	21	32 46 52 14 48	6 7	236	288	125	
484	13	I	e F	23	03	12					Trace only.
485	14	I	eP F	7	10	23 44					Trace only. Micros- eism on 15th, strong on 16th, heavy on 17th, very heavy on 18th and 19th, hea- vy on 20th and ligh- tly on 21st.
486	22	II _r	iP iS iL MN1 ME1 ME2 MN2 F	5	10	08 27 22 26 00 36 39 32	7 7 9 9	106 122	71 81	1900	
487	23	I	eP L? F	23	12	35 02 39					
488	25	I _v	eP iL F	13	08	22 47 14				225	
489	26	III _v	iP iL MN1 ME1 ME2 MN2 F	18	25	33 00 52 53 16 17 02	6 6 8 9	250 334	203 222	760	NE Mindanao.
490	27	II _r	eP iL F	10	31	37 00 55				1930	
491	28	II _r	eP iL ME MN F	19	04	30 23 18 12 22	6 8	99	79	1050	Pacific?
492	29	I	e? F	2	12	56					Trace only.

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.--Continued.

No.	Date	Char-acter	Phase	Greenwich mean time			Per-iod	Amplitude		Dis-tance	Remarks.
				h.	m.	s.		Δ_N	Δ_E		
493	29	Iv	e F	7	01	09					
494	29	Iv	e F	8	08	20					
495	29	Iv	eP iL F	12	00	16 41 07			225		
496	29	Iv	eP iL F	13	01	20 40 09			180		
497	29	IIr	iP iL MN MH F	16	07	58 00 19 19 03	5 4	182	144	1380	
498	31	I	e F	13	50	14				Trace only. Microseism on the 29th, 30th and 31.	