

No. 16.

June 8th to 18th, 1915.

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.

No.	Date	Char-acter	Phase	Greenwich mean time	Period	Amplitude		△	Remarks
						A _N μ	A _E μ		
				h. m. s.					
145	8	II _v	eP	2 39 00	7 6	178		109	N Luzon.
			L	40 00					
			M _H	40 13					
			F _H	40 14					
			F _H	57					
146	8	I _v	eP F	5 05 00 17					N Mindanao.
147	9	I _v	eP L F	14 48 15 48 36 51					
148	11	I _v	eP F	6 27 51 41					
149	13	I _v	eP	8 01 36	2			10	
			L	01 56					
			M _H	02 10					
			F _H	07					
150	13	I	e F	12 52 13 09					
151	14	I	e F	3 41 4 06					
152	15	I _v	eP	10 59 02					
			L	59 18					
			F	11 02					
153	16	I _v	eP	7 39 27	3			16	NW Samar.
			L	40 33					
			M _H	40 53					
			F _H	48					
154	17	III	iP iL	23 33 50 33 57					Mindoro and S Luzon. Maxima in both components lost, for the recording needles were dismounted by the force of the shock.
155	18	I _v	eP F	0 05 56 46					New slight earthquake, SE Samar.
156	18	I _v	eP F	2 26 36 30					

No. 18

July 1st to 10th, 1915.

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 static pendulum (1,000 Kgs.)

	T_0	ξ	$\frac{1}{T_0^2}$
A_N :	7.10	2.08	0.042
A_E :	6.40	2.31	0.039

No.	Date	Char-acter	Phase	Greenwich mean time			Period	Amplitude		\triangle	Remarks
				h.	m.	s.		A_N μ	A_E μ		
171	2	I _v	eP L F	0	04	56 41 13				N Samar.	
172	2	II _v	eP S L M _E M _N F	13	24	58 14 44 18 50 32	9 11	133 120			
173	3	I _v	eP F	9	47	02 50					
174	4	I _v	eP M _E F	1	53	13 51 12	8	12			
175	6	I _v	eP F	21	43	15 47					
176	8	I _v	eP S L M _N F	4	45	54 34 46 48 02	6	12		Samar and Leyte Islands	
177	8	I _v	eP F	7	17	23 22				Samar and Leyte Islands	
178	8	I _r	e F	22	26	34 12					
179	10	I _v	eP L M _N F	10	30	23 51 48 45	5	74		W Luzon.	

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.

No.	Date	Char-acter	Phase	Greenwich mean time			Period	Amplitude		△	Remarks
				h.	m.	s.		μ_N	μ_E		
180	11	I _r	eP S L M _N F _N	16	39	27 41 20 43 18 44 20 17 42	7	8		NE Mindanao.	
181	12	I _v	eP F	8	51	31 54					
182	12	I _v	eP L M _N F _N	20	08	07 08 34 08 40 17	2	24		Bolinao (W Luzon).	
183	12	II _v	eP L M _N M _N F _N	20	24	54 25 21 26 58 27 25 37	6 4	133	30	Bolinao (W Luzon).	
184	12		eP L M _N F _N		40	37 41 04 41 12 46	2	27		Bolinao (W Luzon).	
185	14	I _r	e F	4	47	5 03					
186	14	I _v	eP F	8	47	09 50					
187	14	I _v	eP F	20	52	16 55					
188	15	I _v	eP F	3	34	48 37					
189	17	I _v	eP F	19	43	56 46					
190	18	I _v	eP F	5	36	09 39					
191	18	I _v	eP F	19	07	18 09					
192	20	I	e F	4	37	48					

No. 21.

August 1st to 20th, 1915.

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 static pendulum (1,000 Kgs.)

	T_0	ζ	$\frac{r}{T_0^2}$
A_N :	7.1	2.08	0.042
A_T :	6.4	2.31	0.039

No.	Date	Char-acter	Phase	Greenwich mean time			Period	Amplitude		\triangle	Remarks
				h.	m.	s.		A_N μ	A_T μ		
199	2	I_T	eP L M ₁ M ₂ F	7	18	46 24 13 25 56 26 06 48	13 13	17	8		
200	3	I_V	eP S L M ₁ M ₂ F	12	53	31 53 55 54 24 55 07 13 03	6	48			
201	3	II_T	eP IS L M ₁ M ₂ F	13	10	06 14 16 18 25 21 20 21 50 14 17	7 9	117	42		
202	4	I_V	eP F	10	17	23 21					
203	4	I_V	eP F	10	27	38 33					
204	4	I_V	eP F	18	57	21 19 01					
205	5	I_V	eP F	8	48	00 9 03					Central Mindanao.
206	6	I_T	eP S L L M ₁ M ₂ F	13	19	33 25 42 31 33 37 49 14 33	14	17			
207	7	I_T	e F	15	19	16 33					

No. 23.

August 27th to 31st, 1915.

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY/

No.	Date	Char-acter	Phase	Greenwich mean time			Period	Amplitude		Δ	Remarks
				h.	m.	s.		μ	μ		
219	27	I _v	eP L M F	8	47	13 26 00 59	6	60		Batangas (S Luzon).	
220	27	I _v	eP F	9	03	37 07					
221	29	I _v	eP F	19	19	29 22					
222	30	II _v	eP eS ML M F	7	16	53 44 00 20 24 47	6 5	78	115	N Luzon.	
223	30	I _v	eP F	18	30	49 54					
224	31	I _v	eP F	19	40	10 50					
225	31	III _r	eP eS 1L M F	20	42	36 37 44 50 52 53	9 9	127		Jolo Island.	
226	31	I _r	eP F	21	10	29 22 22		193		New earthquake. Jolo Island.	

Miguel Saderra Masó
Assistant Director of the weather Bureau.

Ref 2788

No. 27.

October 1st to 9th, 1915.

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 static Pendulum (1,000 Kgs.).

	T_0	T	$\frac{T-T_0}{T_0^2}$
A_1 :	7.1	2.08	0.042
A_2 :	6.4	2.31	0.039

No.	Date	Char-acter	Phase	Greenwich Mean time			Period	Amplitude		Δ	Remarks.
				h.	m.	s.		A_p	$A_{p'}$		
257	2	I _r	e	2	09						
			F		21						
258	2	I _v	eP	19	30	03					SM Luzon.
			F		33						
259	3	I _v	eP	0	04	29					
			F		07						
260	3	II _u	e	7	11	37					
			S		23	35					
			L		34	10					
			L		44	10	24		10		
			L		44	16	25	22			
			L		49	04	22		9		
			L		55	08	18		10		
			L		59	14	18	27			
			L		8	02	44	14	24		
			L		9	32					
261	5	I _r	e	13	57						
			F	14	56						
262	5	I _v	eP	15	05	09					
			F		07						
263	7	I _v	eP	18	54	54					
			L		55	08					
			L		55	10	1-2		24		
			L		58						
264	8	I _r	e	15	41						
			S		45	54					
			L		48	36	7	46			
			L		16	22					
265	9	I _r	eP	3	37	00					
			S		40	36					
			L		43	12					
			L		46	14	8	19			
			L		4	27					
266	9	I	e	14	48						
			F	15	06						

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.

No.	Date	Char-acter	Phase	Greenwich mean time			Period	Amplitude		Remarks.
				m.	s.	s.		u	u	
267	10	I	e F	5	57					
				6	23					
268	10	I _v	eP F	18	03	56				
					06					
269	13	I _v	eP L F	3	37	30	4	a	W Luzon.	
					37	56				
					38	42				
					42					
270	15	I _v	eP F	7	21	20				
					24					
271	16	I _v	eP L F	18	38	44	4	25		
					38	50				
					38	56				
					42					
272	19	I _v	eP L F	17	44	34	2	12		
					45	07				
					45	35				
					49					
273	22	I _v	eP F	0	36	30				
					47					
274	24	I _v	eP L F	22	37	25	4	24		
					37	54				
					37	57				
					40					
275	25	II _v	eP L F	8	33	05	3 4	127 139	S Luzon.	
					33	21				
					33	45				
					33	49				
276	25	I _v	eP F	18	17	24				
					20					
277	25	I _v	eP F	21	12	16				
					15					
278	26	I _v	eP L F	1	49	31	5 6	78 102	SE Luzon.	
					50	01				
					50	26				
					50	39				
279	26	I _v	e F	7	46					
				8	02					
280	27	I _v	eP F	9	17	18				
					26					

MANILA, P. I.

SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.

No.	Date	Char-acter	Phase	Greenwich mean time			Period	Amplitude		△	Remarks.
				h.	m.	s.		μ	μ		
288	6	I _v	eP L M ₁ F ₁	10	15	41 50 07 20	3		18		
289	8	I _v	eP F	11	49	17 52					Dagupan (W Luzon).
290	10	I _v	eP L M ₁ F ₁	3	50	55 57 39 03	3	24			N Samar.
291	10	I _v	eP L M ₁ M ₂ F ₁	5	30	44 09 23 28 39	2 3	66	66		Baguio (W Luzon).
292	10	I _v	eP F	11	04	56 07					
293	13	III _d	eP iL	10	54	55 14					Central Luzon. Maxima and end in both components lost by the force of the shock.
294	14	I _v	eP L M ₁ M ₂ F ₁	23	26	19 33 40 54 37	3 3	151	200		
295	16	I _v	eP F	12	46	00 48					
296	18	III _d	eP iL	1	12	56 08					S Luzon and N Mindoro. Maxima in both components lost by the force of the shock. End overtaken by the following earthquake.
297	18	I _v	eP L M ₁	1	26	45 57 05	3	36			Aftershock. End overtaken by the following earthquake.
298	18	II _d	eP iL M ₁ M ₂ F ₁	1	31	00 22 25 31 43	5 3	217	199		Aftershock.

MANILA, P. I.
SEISMOLOGICAL BULLETIN OF THE OBSERVATORY.

No.	Date	Char-acter	Phase	Greenwich mean time			Period	Amplitude		△	Remarks.
				h.	m.	s.		A_1 μ	A_2 μ		
299	18	I _v	eP L M ₁ F	2	21	39 54 11 25	3	24			
300	18	I _r	eP S L M ₁ M ₂ F	4	08	47 46 09 17 26 56	12 10	14	18		
301	18	II _d	eP 1L M ₁ M ₂ F	5	20	18 37 43 50 27	3 3	253	204		
302	18	II _d	eP 1L M ₁ M ₂ M ₃ F	20	20	22 00 12 54 36 01	4 4 5	1,038 1,109 1,164		E Luzon. Maxima and end in E-W component lost by the force of the Shock.	
303	18	I _v	eP L F	21	02	46 58 06					
304	24	I _v	eP L M ₁ F	7	54	53 03 06 57	2		36		
305	27	I _v	eP L M ₁ F	8	38	28 48 11 45	3	19			
306	27	I _v	eP F	17	12	00 15					
307	30	I _v	eP F	23	15	12 18					

Miguel Saderra Masó
Assistant Director of the Weather Bureau.

Ref 2605

No. 15

June 1st to 7th, 1915.

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 static pendulum (1,000 Kgs.)

	T_0	ξ	$\frac{-\xi^2}{T_0^2}$
A_N :	9.00	3.31	0.039
A_E :	6.20	2.58	0.082

No.	Date	Char-acter	Phase	Greenwich mean time			Period	Amplitude		\triangle	Remarks.							
				h.	m.	s.		A_N μ	A_E μ									
138	1	I _u	eP	14	56	45	34	3	2									
			eS	15	06	36												
			L		17	55												
			M _N		23	55												
			M _E		24	00												
			F		27	22												
139	2	I _v	eP	8	36	18	31	8	3									
			L		36	46												
			F		41													
			140	4	I _v	eP						5	53	38	3	8		
						L							34	18				
						F							41					
141	4	I _u	eP	22	05	00	17	9										
			S		11	54												
			L		18	34												
			M _N		21	59												
			F		44													
142	6	I _v	eP	12	28	00												
			F		34													
143	6	II _r	e	21	49	45	11	178										
			M _N		22	16					04							
			F		23	47												
144	7	I _r	eP	22	05	45	11	3										
			eS		09	23												
			L		13	11												
			M _N		17	30												
			F		47													