

No. 2

1931

GEODÆTISK INSTITUT

Copenhagen, Denmark.

Bulletin of the Seismological Station

IVIGTUT

$\Phi = 61^{\circ} 12' \text{ N. } \Lambda = 48^{\circ} 11' \text{ W. } h = 20 \text{ m.}$

Lithologic Foundation: Gneiss.

Instruments: WIECHERT 1000 Kg. Horizontal Seismograph
WIECHERT 1300 Kg. Vertical Seismograph.

Constants (Mean Values):

Component	T sec.	v	r mm	V
N	12.2	2.7	0.8	160
E	12.2	4.5	1.4	205
Z	5.1	4	0.2	190

No.	Date	Hour	Forerunners				L	Undef.	△	Remarks	
			P		S						
			m	s	m	s	h	m	h	m	o
	1931 Jan.										
1	12	20	44	32							No records 1 ^d 13 ^h - 2 ^d 13 ^h .
2 ^x	15 ^x	2	0	27	8	14				56	Kamtchatka.
3	15	19									Mexico.
4	15	21									
5	16	19	29	51							Some preceding movement masked by microseisms.
6	17	3	0	9	9	24				71	Mexico.
7 ^x	17 ^x	6									Mexico.
8 ^x	27 ^x	20					32	38			Faint.
9 ^x	28 ^x	21					38.9				Burma.
							43	2		68	Caroline Islands.
10 ^x	Febr. 2 ^x	23					6	15			New Zealand.
11	8	2					1	3			" "
12	10	7					4.6				Sumatra. Small preceding movement masked by microseisms.
13 ^x	12	6									
14 ^x	13 ^x	1					46	51			New Zealand.
15	14	14									
16	16	19									
17 ^x	19 ^x	18									
18 ^x	20 ^x	5	144	28	153	34	45	47			Siberia.
19	27	9					57.5				
	March										
20	2	2					58				Masked by strong microseisms.
21	7	0								40	
22	7	1									
23 ^x	8 ^x	1	158	43	65	27 ^x	68	53			Yugoslavia.
24 ^x	9 ^x	4	10	56	10	46					Japan.
25	11	12					51	19			

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			P		S						
			m	s	m	s	h	m	h	m	o
	1931										
	March										
26	12	11						.5			
27 ^x	18 ^x	8					26.0	29.1			
28	18	20					38 44	40.6	1.1		Chile.
29	19	6					49.3	50 15			SE of Mindanao.
30	28	13							55		e57 ^m 7 ^s .Near Luzon.
31	29	17									No records 24 ^d 13 ^h -
32	31	16					24.8	28		.9	28 ^d 13 ^h 55 ^m .
	April										
33	1	13								.8	Faint.
34	3	23					136 15	39.6			No records 1 ^d 17 ^h - 3 ^d 13 ^h .
35	6	7							.8		Small preceding movement.
											No records 6 ^d 13 ^h - 16 ^d 14 ^h .
											Until May 3. recording
											frequently interrupted.
36	19	2						.6			
37	22	1						.0			
38	24	18						.2			No records 12 ^h - 18 ^h .
39	27	17	i 0	38	8	42		18			Armenia.
	May										
40	9	11						3			
41	12	1			56	21	1.1				Kamtchatka.
42	16	20	57	18	65	7	1.3			56	Mexico.
43 ^x	20 ^x	2	29	8							Azores.
44	28	5							23		Faint.
45	28	19						.2			
	June										
46	2	2					59.7				
47	9	14						.8			
48	9	17						.1			
49	13	16							.7		
50	17	12						.8			
51	20	15						22			
52	21	12					41.3	.9			
53	23	6			37	35	.9				
54	28	16	137	18							Japan.
55	29	16	155	14	65.0						Bering Sea.
											S quite small, Sea
											of Japan.
	July										
56	5	4						35			
57	5	7						.1			Faint.
58	5	7						21			
59	5	7					43	45			
60	5	7						51			
61	9	12	5	28				11			
62	12	17					10.2	.6			Pacific Ocean.
63	15	16						.9			
64	17	9	23.5		31	24		.7		57	Central America. No Z record
65	18	5					40.0	49.8			Chile. " " "
66	18	8							29		Small. " " "
67	18	11	134	9	42	32		.9		62	Kamtchatka. " " "
68	19	20						.8			
69	20	9						.5			
70	21	3					57 44	58 33			e58 ^m 47 ^s .60 ^m 3.No Z record
71	27	7						.8			

- 3 -

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			P		S										
	1931		m	s	m	s	h	m	s	m	s	h	m	o	
	Aug.														
72	6	18	126	28						.9					N. of Lake Baikal.
73 ^x	7	2					32.1		41.7	1.1					Pacific Ocean.
74 ^x	10	21	29	37											Altai.
75	13	22					32			1.3					
76	14	16								.7					
77 ^x	16	2								.5					Faint.
78 ^x	16	11	49	0	55	56	50	53	59.2	63		48			Mexico.
79 ^x	18	14	31	54	40	46	44	59		.8		67			Mongolia.
80	23	16								0					
81	23	18								.5					
82	24	21	47	1	56	48	57.4					77			Baluchistan. The be-
															ginning of P small,
83 ^x	27	15	38	6	47	48	41.0		53.3			76			uncertain.
															Baluchistan Time-
															correction wrong by
															1 min?
	Sept.														
84	6	7								18					
85	6	8					1	4	26	7					SE of Greenland.
86	8	19								.8					
87 ^x	9	14								.1					
88 ^x	9	20	51	49			1	55	50	62	9 ^x				Marianne Islands region.
89	19	9								33					
90	21	3								.0					
91	21	11								.3					
92	25	6					.5								Sumatra. Masked by
93	26	20						14							microseisms.
	Oct.														
94	1	12								.2					
95 ^x	3	19					34.1								Salomon Islands.
96	3	22								.4					
97	3	22								.9					
98	3	23								.7					
99	5	22			51	22									Turkestan.
100 ^x	10	0					40	58	50	40					Pacific Ocean.
101	10	17								.1					
102	12	4								.0					
103	13	5								.6					
															No records 17 ^d 13 ^h -19 ^d 13 ^h
104	21	1								59					
105	23	21								.1					
															No records 25 ^d 19 ^h -26 ^d 13 ^h
106	28	6								.5					
107	28	7								51					Small. Not very distant.
	Nov.														
108	1	19								.6					
109	2	0	41	48	49	41	55			1.0					Mexico.
110 ^x	2	10	15	44 ^x			26	28	27	27					China Sea.
111	2	18								.1					Small preceding movement.
112	2	19								.0					
113	4	18								.4					Faint.
114	5	12					39.3			.8					
115	18	4								.7					Faint.
116	20	14								1.1					Small preceding movement.

- 4 -

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			P		S						
	1931		m	s	m	s	h	m	s	m	
	Dec:										
117	1	4					.6				
118	1	19					.6				
119	18	10					.9				Faint.
120	24	3				55					Time-correction
121	25	4					.7				uncertain.

x affixed to number and date refers to Notes.
x affixed to time of phase indicates that beginning of phase is in time-mark.

Notes

- No. 2. Jan. 15. 2^h. Mexico. Strong record. The beginning of P small, increasing oscillations. Continued strong oscillatory movement. PPP 3^m.9. S very large. SS 12^m.2, not large. e_E 12^m.9; e_N 13^m 51^s, large. M large, regular.
- No. 8. Jan. 27. 20^h. Burma; Δ = ca. 90°. Strong microseismic movement. Parts of E record unreadable owing to unsuccessful smoking. P not discernible. ($\overline{S_c P_c S}$) 32^m 36^s, clearly marked; increase of movement, (S), 33^m.0. M large.
- No. 9. Jan. 28. 21^h. Caroline Islands; Δ = ca. 110°. PP_Z 43^m 2^s, not very clearly marked. small preceding movement masked by microseisms. $\overline{S_c P_c S}$ 49^m.3 clearly marked on N. (S)_E 50^m.6. PS_N 52^m.3. SS 58^m.0. L begins earliest on E with some waves of long period.
- No. 10. Febr. 2. 23^h. New Zealand; Δ = ca. 150°. Beginning of P' small; increase 6^m 22^s and 6^m 31^s, very large on Z. PP 9^m 44^s. Later phases not clearly marked.
- No. 14. Febr. 13. 1^h. New Zealand. Beginning of P' small, on Z only, reading not quite certain; increasing oscillations, large on Z. Later phases not clearly marked; e 60^m.3, 61^m.7; 68^m.9.
- No. 18. Febr. 20. 5^h. Siberia. Deep focus. Δ = ca. 70°. Forerunners large and clearly marked. L small. S largest on E. e 54^m 7^s and e 56^m 1^s on N only.
- No. 24. March 9. 4^h. Japan. The time of P not certain owing to irregular rotation of the Z drum. iS_E 10^m 50^s followed by large movement. L earliest on E. M large.
- No. 27. March 18. 8^h. Chile. Δ = ca. 100°. Z record unreadable. $\overline{S_c P_c S}$ 26^m.0. PS 29^m.1.
- No. 43. May 20. 2^h. Atlantic Ocean between Azores and Portuguese coast; Δ = 31°. e_N(S) 33^m 53^s; a clearly marked onset 34^m 12^s.

Notes

- No. 73. Aug. 7. 2^h. Pacific Ocean. Δ = ca. 115°. On Z, some movement previous to PP, 32^m.1. PS 41^m.7. SS 48^m.8.
- No. 74. Aug. 10. 21^h. Altaï. Δ = ca. 68°. Very strong record. Beginning of P quite small, on Z only; some movement previous to first pulse read, P_{N,E} 29^m 48^s. Larger movement follows e 30^m 6^s. PP 32^m.6, some preceding increase of movement. e_N 34^m.5. e_S 33^m.6; i_N 39^m 1^s and i_E 39^m 6^s very large e_E 40^m.2 e_E 43^m.1. Some large waves of very long period in first part of L. M very large.
- No. 78. Aug. 16. 11^h. Mexico. Phases clearly marked. PP about as big as P. e_S 55^m 56^s; e_N 56^m 1^s; e_E 56^m 12^s. One M group on N about 73^m, on E about 76^m; later L not large. (L') 13^h.9.
- No. 79. Aug. 18. 14^h. Mongolia. The beginning of P small, e 32^m 1^s larger. S large and exceptionally well defined.
- No. 83. Aug. 27. 15^h. Baluchistan. The beginning of P small, not quite certain; followed by much oscillatory movement; i_Z 38^m 48^s large. PP not very clearly marked. S large on E. e 48^m 32^s; e 49^m.0 large. L' 17^h.9.
- No. 88. Sept. 9. 20^h. Marianne Islands region; Δ = ca. 100°. 2 shocks according to observations of other stations. P quite small. i 55^m 50^s and 62^m 9^s large, on N only. e_E 63^m 6^s.
- No. 95. Oct. 3. 19^h. Salomon Islands; Δ = ca. 130°. Small beginning about 34^m.1, masked by microseisms. e 44^m 25^s; 46^m.8. e 51^m.3; 51^m.8 large. About 66^m a very large wave of long period.
- No. 100. Oct. 10. 0^h. Pacific Ocean; Δ = ca. 120°. No E record. On Z, quite small movement about 38^m.9. e_N 47^m.7. 57^m.6 large. L large, of long duration.
- No. 110. Nov. 2. 10^h. China Sea; Δ = ca. 90°. Z not in good working order. PP 18^m.9. Some increase of movement about 25^m.7. 26^m 28^s and 27^m 27^s well marked phases. SS 32^m.