

No. 4

GEODATISK INSTITUT
 Copenhagen, Denmark.

1933.

Bulletin of the Seismological Station

IVIGTUT

$\phi = 61^{\circ} 12' N.$ $\lambda = 48^{\circ} 11' W.$ $h = 20$ m.

Lithologic Foundation: Gneiss.

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

Constants (June - Dec.)

Component	T	v	r	V
	sec		mm	
N	9.2	3.8	0.4	175
E	9.4	4.2	0.5	210
Z	5.1	4.2	0.1	200

Until May the instruments were not in good working order. In May the instruments and the clock were repaired and since then they have been working well. The clock corrections have been determined daily and time known with an accuracy of 1/10 sec.

No.	Date	Hour	Forerunners						L	Undef.	\triangle	Remarks	
			P		S		h m s						h m
			m	s	m	s	h	m	s	h	m	o	
	1933												
	Jan.												
1	4	2							.2				Strong microseisms.
2	4	4							.3				" "
3	7	4							.8				" "
													No records 8 ^d 18 ^h - 10 ^d 15 ^h .
4	18	9							.4				
5	21	19					42	13					Indian Ocean.
6	23	18					36			54			
7	27	23					7			.4			
	Febr.												
8	3	22	123	8	32	22				47			71 Kurile Islands.
9	13	3									.3		
10	19	9							.7				
11 ^x	23 ^x	8	21	41			31	58	.8				Chile.
12	27	17							.6				Faint.
	March												
13 ^x	2 ^x	17	43	0	53	6	46	14	54	20 ^x	66		80 Pacific Ocean East of Japan.
14	2	20							1.4				Small preceding movement.
15	3	9							.9				Superposed on preceding shock.
													14 ^d 15 ^h no N or E records.
16	11	2		3.2			14.7				24		P uncertain, California.
17	17	16	1	5	46	14	6		.4				61 Kamtchatka.
18	17	19							1.4				Small preceding movement.
19	18	4							.1				
20	26	19							.5				
21	28	4							.7				
	April												
22	9	3									26		Small preceding movement.
23	9	4	8	8	16	14					27		59 Off west coast of Mexico.

No.	Date	Hour	Forerunners				L	Undef.	△	Remarks			
			P		S						h	m	h
	1933		m	s	m	s	h	m	h	m	o		
	April												
24	9	21						35					
25	19	7						34					
26	25	22						49					
27 ^x	27 ^x	2	144	18	51	0	46	14			46	Alaska.	
28	27	12						13.4	.4			Near Alaska.	
	May												
29	1	10								26			
30	1	19							.3			Some preceding movement.	
31	1	20	2	42	12.2				.5		74	No records 27^d 13^h -	
32	29	11							.3				
33	30	12							.2				
	June												
34	2	7	51	22					1.4			Japan. P quite small.	
35	6	3							.4				
36	7	11	158	56			69	39	1.5			China.	
37	8	18			32.7				.8			Japan.	
38	10	11							.9			P small, between 22^m	
39 ^x	10 ^x	12								12		Iceland. and 23^m .	
40	10	13								43			
41	10	14								21			
42	10	15								19			
43	10	16								36			
44	10	20								44			
45	12	15								46			
46	13	20					55.4		1.2			Japan.	
47	13	22					34	45	38.2	42		Alaska.	
48	18	4							.9				
49	18	21	149	46	59	50			1.2		80	Japan.	
50	19	19					2.5			10		Alaska.	
51 ^x	24 ^x	22								45		Sumatra.	
52	25	21					4.7			8			
53	28	23	144	33	52	35			1.0		58	Aleutian Islands. S quite small.	
54	29	3							.1				
55	29	15								26		Small.	
56	29	16								43			
57	29	16								59			
58	29	17								48		Quite small.	
59	29	18								34			
	July												
60	9	1	141	34	151	0	41	46	51	38	1.1	73	East of Hokkaido, Japan.
61	9	5	44		52.5						63	Mexico.	
62	9	9	39.5		49.0				1.0			Kurile Islands.	
63	9	9	59	45					1.4			Superposed on preceding shock.	
64	9	12							.0				
65	9	12	142	11	51	38			1.1		73	East of Hokkaido, Japan.	
66	9	16	18	36	28.1				.7			" " " P quite small.	
67	9	18							.5				
68	9	22							.9				
69	10	0	133	40	43	39			1.1		79	East of Japan.	
70	10	3	31	49	39.9		35.4		.9		60	Mexico.	
71	10	11							.6				
72	19	5							.5				
73	19	11							.3			Faint preceding movement.	

No.	Date	Hour	Forerunners						L	Undef.	△	Remarks	
			P		S								
			m	s	m	s	h	m	s	h	m	o	
	1933												
	July												
74	19	14								.2			Disturbed.
75	19	15	9	57						.4			Aleutian Islands region.
76	19	20								.5			
77	20	23	126	6									Japan.
78	21	20					27	37	37.0	1.0			Atlantic Ocean.
79	22	21	i 5	1	12	55					20		Pacific Ocean.
80	23	4	25	13	35	15							Peru, P. and S. quite small.
81	23	9					44	40	48.9		50		Atlantic Ocean.
82	24	19					25.6			.8			Samoa.
83	26	5								.3			
84	30	18								.4			
85	31	9									13		
86	31	11									39		
	Aug.												
87	11	9								.7			
88	13	10								.6			
89	15	0					55	40			57		
90	20	12								.6			
91	25	8	3	3 ^x	13	34	i 6	18	19.0				85 China.
92 ^x	28 ^x	22					i 38	39	40 7 ^x				South Sandwich Islands.
93	29	15	i 3	10	i 11	52	i 5	19					Brazil. Deep focus.
94	31	3					12.4				16		
	Sept.												
95	2	17			63	9	55	0	63 37				Recording interrupted 64 ^m - 68 ^m .
96 ^x	6 ^x	22					126	29	28 42				Fiji Islands region.
97	7	23								.1			
98	9	21								1.3			Faint preceding movement.
99	19	23									58		
100	24	15	29	44	37.9					.8			60 S. quite small. Aleutian Islands.
101	25	14								.7			
102	25	19	i 3	10	12	40	21.3			.5			Turkestan. Possibly an earlier small beginning of P.
103	30	15								.4			
	Oct.												
104	2	15								.0			
105 ^x	2 ^x	15	140	24	49	15	42	55	50 22	.9			67 Ecuador.
106	5	5									57		
107	5	6									28		
108	5	13	140	41	49.6					1.0			67 Persia
109	14	22								.8			
110 ^x	25 ^x	23	40	32 ^x	50	45	52	20	56 29				Argentina.
111	26	12					37.4		44.2	1.1			
	Nov.												
112	2	12								.8			
113 ^x	20 ^x	23	24	56									Baffin Bay.
114	22	13								.6			
115	23	19								.5			
116	28	11			29	31			37	.7			Persia.
	Dec.												
117	2	21								.1			Strong microseisms.
118	4	19					153	38					" "
119	12	15								.2			

No.	Date	Hour	Forerunners				L	Undef.	△	Remarks.
			P		S					
			m	s	h	m	s	h	m	o
	1933									
	Dec.									
120	13	21			41.9		.9			
121	14	1					54			
122	14	7					51			
123 ^x	15 ^x	7	44	10	46	8			11	South of Greenland.
124	19	5					.9			
125	19	17					56			

^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. 11. Febr. 23. 8^h. Chile; $\Delta = \text{ca. } 85^\circ$. P, condensation, very large on Z.
 $i_Z 21^m 56^s$. $i(\overline{S_c P_c S})_E 31^m 58^s$, large, $e_N 32^m 6^s$. $PS_N 32^m 58^s$.
- No. 13. March 2. 17^h. Pacific Ocean East of Japan. Very strong record. The
beginning of P small, on Z only; possibly 1 sec. earlier than read.
 $i_{N,Z} 43^m 3^s$, followed by increasing, very large oscillations.
PP $46^m 14^s$. $e_{E,Z} 47^m 8$; $e_N 48^m 4$. $S_N 53^m 6^s$, large; on E gradually
increasing, very large oscillations. $PS_Z 53^m 9$. $e_N 54^m 20^s$ (in
time-mark), very large. $SS_N 58^m 2$. Large waves of long period in
first part of L; very large M.
- No. 27. April 27. 2^h. Alaska. $iP 44^m 18^s$, condensation; followed by a group of
rather large oscillations. $e_{N,Z} 45^m 5$. PP $46^m 14^s$, increase of
movement $46^m 24^s$. $S_{N,E} 51^m 0^s$, large. $PS_Z 51^m 12^s$. $e_{N,E} (S_c S)$
 $53^m 7$. $SS_E 54^m 4$.
- No. 39. June 10. 12^h. Iceland; $\Delta = \text{ca. } 12^\circ$. L rather large, forerunners
hardly discernible.
- No. 51. June 24. 22^h. South Sumatra; $\Delta = \text{ca. } 120^\circ$. PP small, shortly after
15^m. Increasing movement in fore-runners, but phases not clearly
marked. First L waves large, the period about 1 min.
- No. 92. Aug. 28. 22^h. South Sandwich Islands; $\Delta = \text{ca. } 125^\circ$. $i P'_Z 38^m 39^s$,
quite small; $i_Z 38^m 51^s$. $e PP 40^m 7^s$. $e 47^m 11^s$. $PS 50^m$. 1. $SS 56^m 42^s$.
70^m a very large wave of long period. Later L regular, not very
large.
- No. 96. Sept. 6. 22^h. Fiji Islands region; $\Delta = \text{ca. } 130^\circ$. Deep focus. $i P'_Z$
 $26^m 29^s$, dilatation; $i_Z 26^m 34^s$. $PP_Z 26^m 42^s$. $e_{N,E} 29^m 54^s$.
- No. 105. Oct. 2. 15^h. Ecuador. iP , condensation. PP $42^m 55^s$. $e S_N 49^m 15^s$,
 $e S_E 49^m 20^s$, large. $S_c S 50^m 22^s$, large and clearly marked. L not
very large, about 56^m.

Notes.

- No. 110. Oct. 25. 23^h. Argentina. Deep focus. P not large, but clearly marked. $e_{S_E} 50^m 45^s$, $i_{S_N} 50^m 47^s$, large. $e_E 52^m 20^s$, large; $e_N 52^m 8^s$. SS $56^m 29^s$. L small.
- No. 113. Nov. 20. 23^h. Baffin Bay. i_P , dilatation; strong increase of movement $i 25^m 8^s$; continued strong oscillatory movement. $e_E 27^m 24^s$, movement of long period, S or L? $e_{N,E} 27^m 48^s$. $i_E 28^m 5^s$, large oscillations. M very large.
- No. 123. Dec. 15. 7^h. South of Greenland. Forerunners small, disturbed by microseisms. L rather large, immediately after S.