

$\phi = 55^{\circ} 42' N$; $\lambda = 13^{\circ} 11' E$; $h = 32 m$
 Sub-soil: Glacial moraines, depth about 100 m, on cretaceous limestone.

Observatory · Lund · Sweden

Instrument: WIECHERT 1000 Kg. horizontal seismograph
 Constants:

Component		T sec	v	r mm	V
NE	1/1-31/8	11.5	5.3	1.0	195
NW		12.3	5.8	0.8	195
NE	25/10-31/12	10.3	4.3	0.5	190
NW		10.3	4.8	0.4	190

SIEMENS clock controlled daily by NAUEN ONOGO signals.
 The seismographic records are read in the GEODETIC INSTITUTE,
 Copenhagen, Denmark.

No.	Date	Hour	Forerunners				L	Undef.	△	Remarks		
			P		S						h	m
			m	s	m	s	h	m	h	m	o	
	1932											
	Jan.											
1	2	23						46				Italy.
2	5	3						.0				
3	9	10				39 59	41 31					SS 57 ^m .6. New Guinea.
4	13	17						.0				
5	24	4						.8				
6	27	19				47			54			
7	29	14				11.8			31			
8	29	15							21			Forerunners masked by strong microseisms.
	Febr.											
9	3	6	27 31	36.9		30.3				72		Disturbed by change of sheets. Superposed on preceding shock.
10	3	7				56 9						
11	5	14						.3				
12	11	16				i33 20						Felt in Sweden. Golf of Aden.
13	12	1			15 49							Fiji Islands.
14	16	14				12		.8				Atlantic Ocean.
15	23	0				43.3	49 22		60			
16	23	21						.4				
	March											
17	4	23								.8		
18	5	2								23		
19	8	5						.1				
20	9	10	21.1		24 36				27		19	Greece.
21	14	22	55 8						82			Panama.
22	15	5						.4				
23	18	5				39 41						
24	19	11				23 56		.8				Marianne Islands.
25	20	0						.2				
26	26	0	i 8 55			17 0 ^x	21.3		24			Alaska.
27	26	10				11.3	17 24	.7				New Guinea.
	April											
28	3	20				59		2.0				
29	4	19	i28 16	i37 55		29 58	40 40			49		Japan. Deep focus.
30	6	9						.8				Faint.
31	13	0									26	
32	14	1	43 42	i48 11				.9				Persia.
33	18	11				39.0						
34	27	1								57		No records 28 ^d -30 ^d

No.	Date	Hour	Forerunners				L	Undef.	△	Remarks	
			P		S						h m s
			m	s	m	s	h m s	m s	h m	h m	o
	1932										
	May										
35	3	0								9	
36	5	4				31	32				
37	11	7				15	56		.6		
38	14	3	50.2		53	53					20
39 ^x	14 ^x	13	24	58		35	37	38	8		
40	18	20							.0		
41	20	19	23.0							38	
	21										
42	21	16							.2		
43	22	1								59	
44	22	11				49.0			1.8		
45	22	17	5	54 ^x	9	24				12	19
46	24	23	38.0								
47	26	5				31.8			.8		
48 ^x	26 ^x	16				28	19	30	41		
49	26	22				40	35	42	44		
50	27	1				48.5					
51	27	10								50	
52	28	2			43	40	43	54	1.0		
53	28	5							.8		
54	31	9							.1		
	June										
55	3	1							.0		
56 ^x	3 ^x	10	50.0			60	44				
57	3	17								58	
58	3	18							.6		
59	4	2							.7		
60	5	9				28	10		1.0		
61	6	8	56	18	66.1	56	31	66	30	82	77
62	8	7							.0		
63	8	11							.7		
64	8	15							.8		
65	10	20	34	55		38.2		45.4	1.2		
66	11	8	42.0		49	23			1.1		52
67	11	17				24	14		.9		
68	12	23								38	
69	13	21	10.1						.7		
70	14	6	12	5 ^x	22	20	22	55			82
71	14	12							.1		
72	16	1	31	14	41	30	31	32			
73	18	2							.2		
74 ^x	18 ^x	10			36	21	35.3	37	28	52	
75	20	10							.2		
76	20	20							.1		
77	22	0	48	3 ^x	57	52			1.3		77
78	22	13	12.5			16.0		23	10		
79	26	19	30	38					.9		
80	29	2	35.0 ^x		39	2 ^x				42	23
81	29	18				38.5		42.3		45	
82	29	18							.9		
	July										
83	1	1				2.9				5	
84	2	3							.1		
85	3	3								4	
86	4	4							.1		
87	5	11							.8		
88	7	16	28.4		38	49				51	84
89	8	11								28	
90	9	11									38

Time correction somewhat uncertain.

Asia Minor. Celebes.

Persia. Recording interrupted 7^h-14^h.

Sicily. Persia.

New Hebrides region.

Small preceding movement Pacific Ocean.

Mexico.

Faint.

77 { P small, uncertain. Off. the coast of California. Faint.

{ 46^m 2; 47^m 39^s Pacific Ocean:

Luzon region.

" "

P quite small, uncertain. Sumatra. Deep focus. Faint.

Off Mexico.

Japan

Pacific Ocean off Mexico. Kurile Islands.

Mediterranean Sea.

California.

No.	Date	Hour	Forerunners				L	Undef.	△	Remarks					
			P		S						h m s	m s	h m	h m	o
			m	s	m	s									
July															
91	9	13					18 40	24 34	.9						
92	10	0					54		1.4						
93	10	8			6					23		East of Japan.			
94	11	9							.2						
95	12	19	36	49			47 14	147 24	1.0			Gulf of California. No records 7h-12h.			
96	14														
97	15	8					17			20					
98	15	21					16 21								
99	20	20					25 23	35.5							
100	21	13							.5			Small preceding movement			
101	21	17							.8						
102	25	8	35	53	45	8	50.2					Japan Sea. Deep focus.			
103	25	9	25	43			36 21	37 37	.9			29m. l. Mexico.			
104	27	21					53		1.3			Faint.			
105	29	21					23			50		Faint.			
106	30	13							.3			Faint.			
Aug.															
107	1	0							.0						
108	2	4			49	55			1.3						
109	3	11								52					
110	5	1							.6			Faint.			
111	5	12	10												
112	5	13	55	31											
113	5	21							.7						
114	12	3	35	24	44.8		45 0	45 32	.9		73	Aleutian Islands.			
115 ^x	13	22							.2						
116	14	4	50.1		158	34			1.2		63	Sea of Okhotsk.			
117	14	12					53.0								
118	15	4					38.9					Seismograph not working well.			
119	21	5							.1						
120	22	11								52					
121	28	11					44	52		52		No records Sept. 1.-Oct. 25.			
Oct.															
122	29	11	16	43	23	0 ^x	118 21				42	P small, not quite certain. PP large The readings of P and S not quite certain.			
123	30	20	58	9	67	16	67 28		1.4						
Nov.															
124	1	16	23	22	26	28				29	17	Aegean Sea.			
125	2	11					25 57	42.0	1.0						
126	3	20							.6			Faint.			
127 ^x	9	19							.1						
128	13 ^x	4	157	37	66	15	158 48	67 2				Sea of Japan.			
129	17	6					26.4		.9						
130	20	23					39					Felt in Holland.			
131	26	4			44	51	35 45	45 9	1.0			Sea of Japan. P not clearly marked.			
132	29	8								45					
133	29	11					36.9	40 4							
Dec.															
134	4	4					17 33			20					
135	4	8					28 46	35 30				P not certain, about 24m. 9. 236m. 15. 37m. 41s. 53m. 1. Mindanao.			
136	4	11							.5			Small preceding movement masked by microseisms.			
137	7	8			4	15									
138	7	16					38 37	45 36		63					
139	8	15							.9						
140	11	21							.9						
141	15	20								18					
142	21	6	22	9	31	56	37		.7		77	California.			

No. 6

L U N D

No.	Date	Hour	P		Forerunners					L		Undef.			Remarks
			m	s	m	s	h	m	s	m	s	h	m	o	
	1932														
	Dec.														
142	24	4											40		Disturbed by
143	24	7					0.2			.4					change of sheets.
144 ^x	25 ^x	2	i14	1	21	44	16	13	25.8				55		China.
145	26	19									17				
146	31	6								1.3					Small preceding
															movement masked
															by microseisms.

^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. 39. May 14. 13^h. Celebes; $\Delta = \text{ca. } 105^\circ$. Strong record. The beginning of P small, followed by stronger movement 25^m 4^s. Some increase of movement about 28^m.4. PP 29^m 18^s; larger oscillations 29^m 27^s. PPP 32^m 3^s. $\overline{S_c P_c S}$ 35^m 37^s; very large oscillations 35^m 48^s. e 36^m.5. iPS 38^m 8^s, very large; followed by a group of very large oscillations. SS 43^m.8, very large. SSS 47^m.8, large. L large, but smaller than largest waves in forerunners.
- No. 48. May 26. 16^h. New Hebrides region. $\Delta = \text{ca. } 140^\circ$. Deep focus. The beginning small, followed by increasing oscillations of quite short period, i 28^m 30^s, 34^s, 45^s. i 30^m 41^s, large on NE. e 34^m.3; 37^m.7; 41^m52^s; 44^m.9. L not large.
- No. 56. June 3. 10^h. Mexico. Strong record; continued oscillatory movement in forerunners; phases most clearly marked and largest on NW. The beginning of P small, the reading not quite certain. PP 53^m.3; larger oscillations 54^m.2. PPP 56^m.0. (S) 60^m 44^s. PS about 61^m.8, followed by a group of very large oscillations. e 64^m.7. SS 66^m.8; larger oscillations 67^m.4; 68^m.5. M very large.
- No. 74. June 18. 10^h. Pacific Ocean off Mexico; Forerunners large on NW. The beginning of P quite small, uncertain, about 25^m.0. i 25^m 26^s, large oscillations. PP 28^m52^s, large. $\overline{S_c P_c S}$ 35^m.3 and S_n 36^m 21^s, oscillations of very long period; S_n large. PS 37^m 28^s, large. SS 41^m.9, large oscillations of very long period. Waves of long period in first part of L.
- No. 115. Aug. 14. 4^h. According to URSS two shocks of different epicentres: Tibet and China. The first P small. iP 50^m 31^s, large. iS 58^m 34^s. e 59^m.0. i 59^m 22^s and i_{NE} 59^m 50^s large. e 60^m 37^s. e 63^m.5.
- No. 127. Nov. 13. 4^h. Sea of Japan. Deep focus. Forerunners clearly marked. Additional readings: 60^m 15^s; iS 66^m 19^s (66^m 15^s on NE only); 67^m 30^s; 68^m 29^s; 70^m.8; 72^m 4^s. L small.

NOTES

No. 144. Dec. 25. 2^h. China. Strong record, strong oscillatory movement throughout. PP 16^m 13^s, not large; PPP 17^m 10^s larger. (P_cS) 19^m.0. The first swing in S not large; followed by large oscillations; e_{NW} 51^m 53^s; e_{NE} 22^m 5^s. Followed by large oscillations, possibly other phases. (S_cS) 23^m 59^s. SS 25^m.8. M very large.