

No. 36.

1935.

Geodætisk Institut

Proviantgaarden, Copenhagen, Denmark.

Bulletin

of the seismological station

KØBENHAVN

$\varphi = 55^{\circ}41' N.$ $\lambda = 12^{\circ}27' E.$ $h = 13$ m.

Lithologic foundation: chalk.

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Instruments:

Galitzin-Wilip seismographs:

Constants:

Component	l	A_1	T_1	μ^2	T	k
	cm	cm	sec		sec	
N	12.5	100	12.61	-0.07	12.3	103
E	12.5	100	12.65	-0.05	12.0	103
Z	14.5	100	11.55	0.1	9	87

Wiechert 1000 kg. horizontal seismograph.

Wiechert 1300 kg. vertical seismograph.

Constants:

Component	T	ν	ϱ	V
	sec		mm	
N	9.5	4.2	0.7	215
E	9.6	4.2	0.7	190
Z	5.6	4.0	0.1	165

Milne-Shaw seismograph, E component, with the approximate constants $T = 12^s$ $\nu = 20$ $V = 300$.

Wood-Anderson torsion seismometer, E component, $T = 2^s.7$.

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P		S					
			<i>m s</i>	<i>m s</i>	<i>h m s</i>	<i>m s</i>	<i>h m</i>	<i>h m</i>	°	
1	1935 Oct. 1	0					.6			
2	1	5					.9			
3	1	11					.8			
4	2	5	<i>i</i> 44 31	<i>i</i> 53 57	<i>i</i> 44 42	44 56	1.1			PPP 49 ^m .1. Kurile Islands. [Depth below normal.
5	4	15					.2			
6	4	21					.3			
7	4	23					.4			
8	5	14						9		Bosnia.
9	6	4			55.6	59.2				
10	6	5					.8			
11	6	15						14		
12	7	5	11 26		22.0		.7			<i>P</i> quite small, uncertain.
13	8	9	27.0	33 13	28 42	36 2*				<i>P</i> quite small, uncertain. [Mount Hissar region.
14	8	20					.9			
15	9	22	<i>i</i> 13 8	16 46	14.7	16 39		17	20	SW of Iceland.
16	10	13					.4			
17	10	21					.0			
18	11	0						52		
19	11	4	28 2*	34 18	37.7				41	
20	11	22			35.6	45.2	1.1			SS 51 ^m .4; SSS 56 ^m .0. No G.Z record.
21	12	16	57.1	66 47	60.1	61.9		80	76	SS 71 ^m .9. Japan. No G.Z record. Strong microseisms.
22	13	2					.6			
23	13	19						49		» »
24	14	10						38		
25	14	20						43		
26	15	20		51.0				54		NW of Spitsbergen.
27	17	15					.3			
28*	18*	0	23 45	33 26	26 37	38.1		47	76	South of Kurile Islands.
29	18	6					.5			
30*	18*	11	19		22.7	31.7	.9			Marianne Islands.
31	18	15	<i>i</i> 5 41	15 21	8 31	20.3	.5		76	Pacific Ocean. East of Japan.
32	18	22					.5			
33	19	5						22		Very strong microseisms.
34	21	11						13		
35	22	7	34					40		<i>P</i> quite small, uncertain.
36	23	13			46.1		1.2			
37	23	19					.7			
38	24	0					.8			
39	24	15					.5			
40	25	0			33		1.3			
41	25	18					.2			
42	26	21						40		Small preceding movement.
43	27	6		57.0			1.1			Iran.
44	28	12						30		
45	29	21						2		
46	30	2					.8			
47	31	19					.1			

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P		S					
48	1935 Nov. 1	6	m s	m s	h m s	m s	h m	h m	°	P not quite certain, masked by microseisms. Canada. Annam.
49*	1*	16	13 5	20 39	24 32		28			
50	2	18	33 40	i43 9	43 46	48.0	58		74	
51	3	17					.6			Small preceding movement. Celebes.
52	4	11					.1			
53	4	14					.0			
54	5	10					.8			
55	5	14					.5			
56	5	16					.1			
57	5	21			21 42		.8		45	
58	6	14					.0			
59	6	22			14		.6			
60	7	4		44 8					46	
61	7	11					10			P small, not quite certain. [SSS 55 ^m . Lesser Antilles. Sumatra region. P quite small, [not certain. PS 26 ^m .7. SS 33 ^m .7. SSS 38 ^m .1. [North of Solomon Islands.
62	7	21			19.1	26.1	32			
63	10	18	38 41	47 38	48 34	52.1	56			
64	11	13			38		1.2			
65	12	21	40.7				1.2			
66	14	0					32			
67	14	20			17.0	24.3	.9			
68	16	0					.5			
69	16	6					.7			
70	17	8			0.6	22.3	.7			
71	17	15					.2			Off Ecuador. Faint. Sumatra. SSS 33 ^m .9. Possibly a small earlier beginning of P. Strong microseisms. P small, uncertain. No Galitzin records.
72	19	7					.6			
73	22	12					.3			
74	23	8			16.4	22.4	.5			
75	25	4					.7			
76	25	10	15 14	25 20	16.0	26.2			81	
77	26	19					.5			
78	30	3	52.4	62 34	68.2		1.3			
79	Dec. 2	0					26			
80	2	17					.4			
81	5	18					.8			Small preceding movement masked [by microseisms.
82	8	16					13			
83	8	23					.2			Masked by microseisms. Faint.
84	9	7			59		1.8			
85	9	16						.4		
86	11	9					26			
87	11	12							33	
88*	14*	1	43 28	i53 6	45 43	i53 47				
89	14	12					.8			
90	14	13	0 14		10 18	10 47				
91*	14*	22	18 3*		21 27	34.2	.7			Mexico.

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks					
			P		S										
			m	s	h	m	s	m	s	h	m	h	m	°	
	1935														
	Dec.														
92	15	2								.5					
93*	15*	7								1.0					
94	16	17													Solomon Islands.
95	17	13													<i>e</i> 30 ^m .0. Masked by microseisms.
96	17	19	30	3*						1.3					Small preceding movement.
97	17	22								.9					<i>e</i> 41 ^m .3. SS 45 ^m .8. E of Formosa.
98	18	7	21	30	i	30	32			1.3					
99	18	8								.7				69	China.
100	18	12								.7					Superposed on preceding shock.
										33					
101	18	13								50					
102	18	17	10	25	19	25				33				68	China.
103	18	21								.7					
104	19	10								.3					
105	19	14								.0					
106	19	21													
107	19	23	18	30						57					
108	20	0													
109	20	0								22					
110	20	6								.7					
										.5					
111	20	8								27					
112	20	18													
113	21	5								1.6					<i>e_E</i> 65 ^m .0; 78 ^m .1. Pacific Ocean.
114	21	8								1.2					
115	21	12	3	53						.1					
116	22	4								32					
117	22	10								.2					
118	22	12								.8					
119	22	16								1.2					
120	22	20								8					
										.8					Faint.
121	23	14			63	54				76					
122	24	12	37	5											
123*	28*	2	48	14	i	59	6			1.1					Deeper than normal.
124	28	18								1.2					Sumatra.
125	28	19								.2					Small preceding movement.
126	29	4								.6					
127*	29*	23								.5					
128	30	1								1.5					New Guinea.
129	30	5								52					Superposed on preceding shock.
130	31	2								.0					
										.4					

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NOTES

- No. 28. Oct. 18. 0^h. South of Kurile Islands. *P* not quite certain, masked by microseisms. *PP* 26^m37^s; *PPP* 28^m22^s. On *E* small beginning of *S* 33^m15^s or 22^s, stronger movement 38^s. *S_N* 33^m26^s well defined. *S* succeeded by oscillations lasting about 2 min., probably *PS* and *S_eS*, but phases not distinct. *SS* 38^m.1.
- No. 30. Oct. 18. 11^h. Marianne Islands; $\Delta = \text{ca. } 100^\circ$. Masked by strong microseisms. *P* quite small, uncertain, about 19^m. *PP* 22^m.7. *SKS* 29^m.2; (*S*) 30^m.8. *PS* 31^m.7; *PPS* 32^m.8. *e_N* 35^m.3. *SS* 37^m.8.
- No. 49. Nov. 1. 16^h. Annam. *P* small. *PPP_E* 38^m.2. *iS_N* 43^m9^s rather large, well defined. *S_E* small, not clearly marked, possibly earlier. *PS_N* 43^m46^s. *SS* 48^m.0 rather large, preceded by smaller oscillations. *SSS* 50^m.9; 51^m34^s larger.
- No. 88. Dec. 14. 1^h. Peru; $\Delta = \text{ca. } 90^\circ$. Deep focus. The beginning of *P* somewhat uncertain. *e_Z* 45^m43^s; 46^m48^s; 47^m.4. *e_{E,Z}* 50^m26^s. *iSKS* 53^m6^s large; *i(S)* 53^m47^s. *e_E* 55^m3^s (in time mark) large and followed by large oscillations. *i* 58^m51^s. *e* 60^m.3. *e_N* 62^m18^s. *i_E* 63^m54^s large. *L* small.
- No. 91. Dec. 14. 22^h. Mexico; $\Delta = \text{ca. } 85^\circ$. *P*, condensation, large. *e_Z* 20^m.7. *PP* 21^m27^s. *e_E* 28^m.0. *i(SKS)* 28^m33^s; *e_E* 28^m.8 larger. *e* 32^m.2. *SS* 34^m.2.
- No. 93. Dec. 15. 7^h. Solomon Islands; $\Delta = \text{ca. } 130^\circ$. Phases not clearly marked. *P'_Z* 27^m.1; *P'_E* 27^m.7. *PP* 29^m.1. *e_E* 29^m42^s; *e_E* 30^m.5, followed by continued oscillations. (*PS*) 40^m.5. *SS* 46^m.3.
- No. 123. Dec. 28. 2^h. Sumatra; $\Delta = \text{ca. } 90^\circ$. *eP*, condensation; first movement small; increasing, strong oscillations. *PP* 51^m.7. *e_E* 55^m.5, large waves of long period. *e_E* 58^m.2. (*SKS*)_N 58^m53^s. *iS* 59^m6^s, very large on *N*. *SS* 64^m.5; *SSS* 68^m.2. *e_N* (*L*) 71^m.5.
- No. 127. Dec. 29. 23^h. New Guinea; $\Delta = \text{ca. } 110^\circ$. *PP* 55^m.8, not clearly marked; faint preceding movement masked by microseisms. *PPP* 58^m.7. (*SKS*) 62^m.2; *e* 63^m.3. (*PS*) 64^m.9. *SS* 71^m.3; *SSS* 76^m.3.