

No. 35.

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.

No. 35. July—Sept. 1935.

Instruments:

Galitzin-Wilip seismographs:

Constants:

Component	l	A_1		T_1	μ^2	T	k
	cm	cm		sec		sec	
<i>N</i>	12.5	100		12.61	-0.1	12.4	103
<i>E</i>	12.5	100		12.65	0.0	12.1	102
<i>Z</i>	14.5	100	$\frac{1}{7} - \frac{26}{7}$	10.02	0	$10\frac{1}{2}$	95
			$\frac{26}{7} - \frac{30}{9}$	12.13	0	9	88

Wiechert 1000 kg. horizontal seismograph.

Wiechert 1300 kg. vertical seismograph.

Constants:

Component	T	ν	ρ	V
	sec		mm	
<i>N</i>	9.6	4.4	0.7	220
<i>E</i>	9.7	4.2	0.8	190
<i>Z</i>	5.5	4.1	0.1	170

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													
			m	s	m	s	h	m	s	m	s	h	m	h	m	°		
1	1935 July																	
2	2	15										.8					Preceding movement disturbed.	
3	5	18	0	38	6	45	2	11	9	50						40	Buchara.	
4	6	6										.7					Faint.	
5	6	22										.7						
6	7	13	35	56			46	12				1.1					Luzon.	
7	8	14										.0						
8	9	1										.6						
9	9	2										.9						
10	9	5										.4						
11	9	7					9	19				.6					Small preceding movement.	
12	9	12					40.4		46.6			1.2					47 ^m .7; 49 ^m .9. Chile. No Galitzin [records.]	
13	9	15										.7						
14	9	18										.7						
15	9	21										1.1					Small preceding movement.	
16	10	20			49	25	54.0					1.1					Indian Ocean.	
17	11	8	i36	49	46	43						1.1				78	Japan.	
18	11	13					31.2		48.6			1.3						
19	11	23												32			Faint.	
20	12	1			57.6						68						Tien Shan.	
21	12	3	i49	17													Later movement quite small.	
22	12	21										.6						
23	13	0	6	48			9	32									Carpathians.	
24	13	1										.3						
25	13	4										.6						
26	15	12												.4				
27	15	14					i32	5	34	50							e 38 ^m .5; 41 ^m .4; 44 ^m .9; 49 ^m .2.	
28	15	18					24.7		30.5			.7						
29	16	16	31	8	41	13	50.6										80	Formosa.
30	16	20					25	2*				.9					Celebes.	
31	16	0					8	38	8	44		10					Norway.	
32	17	0					41.0		44.2			1.0					Small preceding movement.	
33*	17	4			50	18	53.2		54.9								SSS 57 ^m .1. Atlantic Ocean.	
34*	17*	11					6.0		11	45		.7					South Atlantic Ocean.	
35	19*	1	1	45	11	40	4	45	16.5			.5					78	East of Japan.
36	19	7										.0						
37	20	7												.2			Faint.	
38	20	15										.4						
39	22	7										.3						
40	23	4	6	55	16	14	20.6					.5					P quite small; somewhat uncertain.	
41	24	4										.7						
42	26	3												5				
43	26	4	56.2		66	43	66.5					1.4					P uncertain. Panama.	
44	26	8	14	0	23	15	25.9										71	No G. records. W. H. disturbed.
45	26	9										.7						
46	26	10			51	16	58.5					1.1					No G.Z record.	
47	27	4										.4						
48	27	17										.7						
49	28	5	i31	52	38	16	33	41	34	10							43	SS 41 ^m .6. Badakshan.
50	28	7										.2						

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P	S						
			m s	m s	m s	h m s	h m	h m	°	
50	1935 July 29	4			38		1.0			
51*	29*	7			57 33					
52	29	23		31 13			.6		Pacific Ocean.	
53	30	6			9.8	12.2	.6		Pamir.	
54	31	10					.3		Small preceding movement.	
55	Aug. 1	5					.5			
56	1	14	19 48		23 29	30 20	.9		(S) 30 ^m 48 ^s . PS 32 ^m .1.	
57	1	16	21.1		31 28	32 29	.8		Pacific Ocean near Philippines.	
58	2	11					.0		» » off Central America.	
59	2	21					.1			
60	3	1	22 28	32 47	23.5	33 45		83	Faint. 35 ^m .0; SS 38 ^m . Sumatra.	
61	3	5	37 40	41 13	37 44		43	20	Mediterranean Sea.	
62	3	11	58 40		69 11	69 46	1.6		No Galitzin records 3 ^d 8 ^h —19 ^d 16 ^h . P small, uncertain. PP 62 ^m .4. Recording disturbed 13 ^h 36 ^m —15 ^h 27 ^m .	
63	3	18					.2			
64	4	2		47.8			1.1			
65	4	10					.4		Faint.	
66	4	18					.5			
67	5	15					.0			
68	6	0			19 43		.7			
69	6	14					.5			
70	6	17					.9		Faint.	
71	7	9			25 43		.7			
72	8	14					.8			
73	10	18			1.1	8.3	.4			
74	11	8					.4			
75	11	9					.4			
76	11	20			4.4		20			
77*	17*	2			4 5*	i 4 13	44		Pacific Ocean.	
78	17	8					.1			
79	17	20			49.2		1.2			
80	18	10					.0		Disturbed.	
81	19	16					22			
82	20	8		62 50			65		Asia Minor.	
83	20	17					.6			
84	21	14			7 59	11.0	.9		11 ^m 41 ^s . 29 ^m .1. L small.	
85	22	7					9			
86	22	20	37 56	43 37	39 16	44 16	47	36	Baffin Bay.	
87	23	11					.3			
88	23	14	11 2*	22 6	21 35	23.4	.7		PP 14 ^m .9. SS 28 ^m .4. Sumatra.	
89	25	5	12 52	17 7	13 15	17.9	19	24	Spitsbergen.	
90	25	20			58		1.4			
91	26	13					.4			
92	26	16			39 25		43			
93	26	17					.2			

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P	S						
	1935									
	Aug.		<i>m s</i>	<i>m s</i>	<i>m s</i>	<i>h m s</i>	<i>h m</i>	<i>h m</i>	°	
94	27	6					.1			
95	27	15					.2			
96	29	11					28			
97	31	0					.9			
98	31	17	<i>i</i> 51 33	61 2*	68.3		1.3		74	
	Sept.									
99	1	1					.2			
100	2	3					.4			
101	2	7			35 29	45.0	1.2			
102	2	16					.0			
103	3	11					39			
104	3	17	39 34	42 52			45		18	
105	3	23					.7			
106	4	1	37 48	46 6			.9		61	
107	4	1	50 2*	<i>i</i> 60 12	65.6		75		81	
108	4	3	40.4		50 50		70			
109	6	19					.1			
110	6	21					.9			
111	7	18					.6			
112	8	1		28.1			.6			
113	8	17					.9			
114	9	6	31.9		42.5	45.2	61			
115	11	12			5 34		1.0			
116*	11*	14	<i>i</i> 15 35	25 3*	18 16	20 2	35		73	
117	14	15					.0			
118	15	4					.5			
119	15	11			35 34	45.4	1.2			
120*	15*	14			28.2	31 52	64			
121	16	15					.5			
122	18	5	10 30	20 58			.6		85	
123	18	8		44 52			1.0			
124	18	20					.8			
125*	19*	2			46.6	56.4				
126*	20*	2	1.6		6.1	16 4	34			
127*	20*	5			42 43	52 14	78			
128	20	22					.0			
129	21	22						.3		
130	22	2					3			
131*	23	9			37 58	47.5	1.1			
132	24	5			36.6		.9			
133	24	17					.3			
134	24	22	23 40	32 47	33.8	37.5	.8		70	
135	25	0					.7			
136	25	10			39 16	<i>i</i> 48 51	75			
137	25	13					.5			
138	26	22			.9		.6			
139	27	4					.3			

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P		S					
			m s	m s	h m s	m s	h m	h m	°	
140	1935 Sept. 27	14					.5			
141	27	18						.0		
142	28	16					25			
143	29	6					59			
144	29	13					8			
145	30	0					.9			
146	30	19	6 45	11 35						P not quite certain. North of Spitsbergen.

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NOTES

- No. 33. July 17. 11^h. South Atlantic Ocean; $\Delta = \text{ca. } 115^\circ$. PP 6^m.0; SKS 11^m45^s. e_E 14^m.1; e_N 15^m.0. (PPS) 16^m.0. e_N 19^m.1. SS 21^m.9.
- No. 34. July 19. 1^h. East of Japan. First movement in P quite small, followed by increasing oscillations. PP 4^m45^s, PPP 6^m36^s. S 11^m40^s well defined; 11^m57^s on E , larger. SS 16^m.5; SSS 20^m.3. L not large.
- No. 51. July 29. 7^h. Pacific Ocean; $\Delta = \text{ca. } 150^\circ$. Deep focus. P' 57^m33^s; the first movement small, the time not quite certain; the subsequent movement exceptionally large. Later phases not very clearly marked. e_Z 59^m32^s, e_Z 60^m23^s; $e_{N,Z}$ 60^m57^s. e_N 63^m.1, e_Z 63^m.5. e 66^m.7; 67^m.9; 70^m.4; 72^m.8; 73^m.8. L small.
- No. 77. Aug. 17. 2^h. Pacific Ocean; $\Delta = \text{ca. } 150^\circ$. P'_Z 4^m5^s, in time mark; i 4^m13^s large on Z . PP 7^m28^s. e_N 8^m.6. $SKKS$ 14^m.2 small. $SKSP$ 17^m37^s. PPS 20^m4^s. SS 26.7, SSS 31^m.4. First L waves large, of long period.
- No. 116. Sept. 11. 14^h. Japan. iP 15^m35^s, condensation, very large; i_Z 15^m48^s. PP 18^m16^s; PPP 20^m2^s; $PPPP$ 21^m8^s. S 25^m3^s (in time-break) very large, followed by large oscillations. e_N 28^m.5; e 31^m.
- No. 120. Sept. 15. 14^h. Pacific Ocean; $\Delta = \text{ca. } 135^\circ$. P' about 28^m.2, quite small. PKS 31^m52^s, e_E 32^m47^s. PPP 33^m.7; SKS 35^m20^s. SS 48^m.0. SSS 53^m.3.
- No. 125. Sept. 19. 2^h. Pacific Ocean. 84^m—89^m waves of shorter period than those preceding and succeeding them. L of a different shock?
- No. 126. Sept. 20. 2^h. New Guinea; $\Delta = \text{ca. } 115^\circ$. P quite small 1^m.6. PP 6^m.1, e 6^m32^s larger. e 7^m.5. PPP 8^m.9. e 11^m.4. e 13^m.5; 14^m.0 large. PS 16^m4^s and PPS 17^m11^s large. SS 22^m.4. e_N 24^m.8, e_E 25^m.6. L 33^m.5, first waves very large, of long period.
- No. 127. Sept. 20. 5^h. Pacific Ocean; $\Delta = \text{ca. } 115^\circ$. Small movement masked by microseisms, precedes PP 42^m43^s. e_E 44^m41^s. PPP_Z 45^m12^s. SKS 48^m34^s, ($SKKS$) 49^m.8. PS 52^m14^s large. SS 58^m.8.
- No. 131. Sept. 23. 9^h. Pacific Ocean; $\Delta = \text{ca. } 115^\circ$. PP 37^m58^s preceded by small movement. PPP 40^m21^s. SKS 43^m50^s. e 45^m22^s. PS 46^m.4. e 50^m.2; 51^m.8. SS 54^m.0.