

No. 6.

1930.

Geodætisk Institut

Proviantgaarden, Copenhagen, Denmark.

Bulletin
of the seismological station

SCORESBY-SUND

$\varphi = 70^{\circ}29' \text{ N. } \lambda = 21^{\circ}57' \text{ W. } h = 69 \text{ m.}$

Lithologic foundation: Gneiss.

No. 6. July—Dec. 1930.

Instruments:

Galitzin pendulums with galvanometric registration.

Constants:

Component	<i>l</i>	<i>T</i> ₁	<i>A</i> ₁		μ^2	<i>T</i>	<i>k</i>
	cm	sec	cm			sec	
<i>N</i>	12.0	12.4	100	$\frac{1}{7} - \frac{19}{9}$	0.1	12.4	86
				$\frac{19}{9} - \frac{7}{10}$	0.0	12.5	87
				$\frac{7}{10} - \frac{31}{12}$	0.0	12.6	47
<i>E</i>	12.0	11.9	100	$\frac{1}{7} - \frac{8}{9}$	0.2	12.6	75
				$\frac{8}{9} - \frac{7}{10}$	0.0	13.2	84
				$\frac{7}{10} - \frac{31}{12}$	0.0	12.1	54
<i>Z</i>	14.1	10.1	100				

Z has not been very stable; the period has been about 8 sec.

Owing to some friction in the galvanometer, *N* has not been working satisfactorily.

Time-corrections have been determined daily by means of Nauen scientific time-signals and time is, as a rule, known with an accuracy of about $\frac{1}{2}$ sec.

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P	S						
	1930 July		m s	m s	h m s	m s	h m	h m	°	
1	1	1	17 49	24 59	19.8	28.7	33		50	Pacific Ocean.
2*	2*	21	15 13	24 39					73	Tibet.
3	3	0		39.9						
4	4	1						.4		
5	5	7					9			
6	5	18			16	26	.9			
7	5	23					.4			
8	7	13						23		
9	7	13			53.4		1.1			Some preceding movement.
10	7	21					.3			" " "
11	8	5			53					
12	8	10					.5			
13	8	17						33		
14	9	4						55		
15	10	3					22			
16	11	7			27 49					
17	13	1			15	18.6	22			
18	13	1					1.2			Preliminary phases not clearly marked; beginning in preceding shock.
19	13	14					.0			Faint preceding movement.
20	13	14			21.3		.7			
21	13	19	37 49	46 22	50.7	53.5	1.0		64	China.
22	14	21					.2			
23*	14*	22	51 46	60 56	61 49	65.2			70	Central America.
24	15	6					.3			
25	15	9					.6			
26	16	3					.6			
27	17	15			0	5	.4			
28	17	18			58.7		1.2			
29	19	23					.9			
30	20	11						.3		
31	20	13					.6			
32*	22*	19	36 20	44 55			.9		64	Kurile Islands.
33*	23*	0	15 36							Italy.
34	23	18					.4			Faint preceding movement.
35	23	19					.5			
36	23	21						43		
37	24	15					.1			
38	25	19			55		1.2			
39	25	22					.1			
40	25	22						57		
41	26	18					.1			
42	27	9					.1			
43	27	13					.1			
44	27	13					.5			
45	27	15			21		.6			
46	27	19			19 9		.6			Beginning disturbed. No records ²⁸ / ₇ — ¹ / ₈ .

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P	S						
	1930 Aug.		m s	m s	h m s	m s	h m	h m	°	
47	2	16			25 49		.3			Z record only.
48	4	5	16 11		18 25	25 53				" " " . Deep focus. No Z records 3 d—21 d. No records Faint. [4 d 17 h—5 d 12 h.
49	5	23					.8			
50	8	0					.5			
51	8	6					.3			Small.
52	9	18					30			
53	9	20					.8			
54	10	0					.9			
55	13	21					.9			
56	17	9			49.6					Faint.
57	17	12		47.8	40		1.1			Persia.
58	18	7						30		Near shock.
59	18	10			14.8	24.4	.8			Strong microseisms.
60	19	6						.7		
61	20	9					.9			
62*	20*	21	7	16 45	12.5	18.3	34			Formosa.
63*	23*	11	3.3	i 11 40	13.2				62	Iceland.
64	25	15					25			
65	25	15					39			"
66	25	15					48			"
67	25	18					10			"
68	25	18					22			"
69	25	22					1			"
70	27	15					.9			
71	28	2					11			Small.
72	29	8			48.4		1.0			
73	29	20			21.4					
74	29	22						46		
	Sept.									
75	1	17					.5			Disturbed. No time-marks on E.
76	2	16			12		.5			
77	2	19	8 36	16.5	11.9		.5		57	Persia.
78	5	16					.9			
79	9	11					.6			
80	11	12	44 40	51.5			1.0		47	Asia Minor.
81	12	8					.7			
82	12	9					.8			
83	14	0					.4			
84	14	4					.5			Preceding movement masked by Near shock. [microseisms.
85	18	18						45		
86	20	2					.2	.5		
87	21	8								
88*	21*	23	16 2	25 40	18 54	30.8			75	China.
89*	22*	1			50 50		1.8			
90	22	5					39			
91	22	13						.3		
92*	22*	14	30 50	40 25	45.6	48.7	54		75	Assam.
93	22	16			48.6		.9			Faint preceding movement.

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P	S						
	1931		<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>	°	
	Sept.									
94	23	3					.5			Faint.
95	23	6					.8			Faint.
96	23	10					.6			
97	30	21			.8	56.1	1.2			Time-service failing 24 d—26 d. New Guinea.
	Oct.									
98	1	14					.7			
99	2	1			6.2		.7			
100	2	15			49.6		1.0			
101	3	1					0			
102	3	19					.2			Faint.
103	3	23					.9			
104	8	10			.7		1.1			
105	8	20					.1			Faint.
106	9	22					.1			”
107	10	1					.3			
108*	11*	3	7 5							Greenland Sea.
109	11	7						21		Near shock.
110	11	10						4		” ”
111	12	2						0		” ”
112	12	15					.6			
113	19	11					.6			Faint preceding movement.
114	21	19						.3		Disturbed.
115	23	10					.0			Strong microseisms.
116*	24*	20		i 39 7	31.5	40 13	.9			Marianne Islands. 12 ^h —14 ^h no records.
	25									
117	28	0					.0			
118	28	21		34 17	33.9	41	.9			Marianne Islands.
119	30	7			26		30			Italy.
120	31	11			1 7		.5			
	Nov.									
121	2	17					.1			
122	3	19			5 55		.5			
123	4	15			59.5		1.3			Small preceding movement.
124*	9*	19			30					New Guinea.
125	12	19					.7			Strong microseisms.
126	17	12			32.8		1.0			
127	21	2		13 27			21			Faint preceding movement.
128	22	14					1.5			” ” ”
129	24	3						.5		
130	24	6			29.0		35			
131*	25*	19		24 0			.6			Japan.
132	28	7			53 24		66			
133	30	22					.1			
	Dec.									
134	2	7					.7			
135*	3*	19	4 14	i 14 22	7.4	19.3			81	Burma.

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P	S						
	1930 Dec.		<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>	°	
136	6	7			21.3		.5			Masked by microseisms.
137	8	8					.7			
138	8	16					.6			Small preceding movement.
139	9	19					50			Masked by microseisms.
140	10	10			46		.9			Armenia.
141	11	9					.5			
142	21	15			14.2					Armenia.
143	22	0					.9			Very strong microseisms.
144	23	22			.2					
145	24	6					.8			

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NOTES

- No. 2. July 2. 21^h. Pacific Ocean. The beginning of *P* small, strong increase about 10 sec. later. Between *P* and *S*, relatively strong movement with several sharp pulses; best defined phases: 18^m.0, 19^m56^s, 20^m50^s. The beginning of *S* small, not very clearly marked, about 24^m39^s; followed by a group of large oscillations; *i_N* 24^m54^s. *SS* 29^m.1; *SSS* 33^m.0.
- No. 23. July 14. 22^h. Central America. *P* and *S* well defined. *PR* not clearly marked. After *SS* continued movement; the beginning of *L* not certain. On *N*, a large *M* group in first part of *L*. *M* later and smaller on *E*.
- No. 32. July 22. 19^h. Kurile Islands. Deep focus. *i P_Z*, condensation. *e_{N,Z}* 37^m.0; *e_E* 40^m.8; *e_N* 41^m.1. On *E*, *S* clearly marked and followed by distinct pulses: 45^m.8, 46^m16^s, 47^m.0. *e_N* 50^m33^s; *e_E* 53^m.2. *L* small.
- No. 33. July 23. 0^h. Italy. *P* small. *PP* large, the beginning not well defined, about 16^m.9. Increase of movement 18^m.6 and again 19^m.1. *S* not well defined, about 21^m.2, on *E* preceded by quite large movement beginning about 20^m.8; *SS* large, 23^m.3.
- No. 62. Aug. 20. 21^h. Formosa. No *Z* record. *P* quite small, uncertain. *S* clearly marked on *N*. *SS* 24^m.0. *L* earliest on *N*.
- No. 63. Aug. 23. 11^h. Persia. No *Z* record. *P* small, uncertain. On *N*, *S* clearly marked by a large oscillation. 17^m.5 a group of oscillations (*L?*), relatively large on *N*. Later *L* small, largest on *E*.
- No. 88. Sept. 21. 23^h. First forerunners small; *PPP* 20^m48^s. *S* large and well defined. *e_N* 27^m.4; *e_N* 28^m55^s. *L* not large, the beginning uncertain.
- No. 89. Sept. 22. 1^h. *P_Z* 50^m50^s; *e_Z* 51^m12^s. Later forerunners distinct, but phases not very clearly marked. *e_{N,Z}* 54^m0^s; *e_E* 54^m.4; *e_N* 54^m42^s; *e_N* 57^m.1; *e_N* 58^m.6. *SS* 72^m.7. *L* regular, not large but of long duration.
- No. 92. Sept. 22. 14^h. Assam. *P* small, clearly marked on *Z* only. *e_E* 36^m.6. *S* small but clearly marked on *N*; on *E* hardly discernible. *PS* 40^m48^s, large on *N* and *E*. Some waves of long period in first part of *L*; later *L* small.
- No. 108. Oct. 11. 3^h. Greenland Sea. No *Z* record. *i_E*, *e_N* 7^m5^s. *i_E* 7^m12^s; *i_N* 7^m31^s; subsequent movement very strong, traces hardly visible.
- No. 116. Oct. 24. 20^h. Marianne Islands. No *Z* record. *P* not very certain; a distinct pulse 28^m26^s, but possibly an earlier small beginning, masked by microseisms. *e_E* 36^m.2. *S_cP_cS* not clearly marked, 38^m.5. *SS* 45^m.
- No. 124. Nov. 9. 19^h. New Guinea. *E* record only. Phases not clearly marked; strong microseisms. Readings: 37^m.0; 38^m.0 38^m.5; 43^m.0; 46^m.9.
- No. 131. Nov. 25. 19^h. Japan. Masked by strong microseisms. *e_{N,Z}* 14^m41^s. *S* clearly marked on *E*; no corresponding pulse on *N*.
- No. 135. Dec. 3. 19^h. Burma. *P* small; *PP* not well defined. *S* large and clearly marked, followed by strong movement.