

No. 5.

1930.

Geodætisk Institut
 Proviantgaarden, Copenhagen, Denmark.

Bulletin
 of the seismological station

SCORESBY-SUND

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

Lithologic foundation: Gneiss.

No. 5. Jan.—June 1930

Instruments:

Galitzin pendulums with galvanometric registration.

Constants:

Component	l	T_1	A_1		μ^2	T	k
	cm	sec	cm			sec	
N	12.0	12.4	100	$1/1-14/1$	— 0.06	11.7	77
				$14/1-23/6$		12.1	68
				$23/6-30/6$	0.1	11.8	86
E	12.0	11.9	100	$1/1-28/1$	0.14	11.8	76
				$28/1-29/3$		12.0	72
				$29/3-30/6$	0.02	12.1	78
Z	14.1	10.1	100				

In the intervals for which no value of μ^2 is given, the damping has been somewhat varying, but nearly aperiodic.

Z has not been very stable; the period has been about 5 sec.

Time-corrections have been determined daily by means of Nauen scientific time-signals and time is known with an accuracy of about $1/2$ sec.

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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	1930 Jan. 5	1						38		Strong microseisms. Kurile Islands.
2	5	19	2 56	11 39			.4		65	
3	14	23					.1			Strong microseisms.
4	16	1					0			
5	17	4					31			
6	17	17					.6			
7	28	7					.4			
	Febr.									
8	1	19					.6			Some preceding movement. Aleutian Islands.
9	2	15	5 49*	13 43	19.2				28	
10	2	17								
11	5	1					.1			
12	7	7					.4			
13	7	17					.5			
14	8	7						.0		
15	12	7					.6			
16*	14*	18	i46 4	i52 20	48 10	55.6				Aegean Sea.
17	14	21			4.2		.8			
18	15	2						.0		
19	18	3					.0			
20	24	21			15	18.2	.8			
21	26	3							1	
22	27	2			39.0					
23	27	7					.9			
24	28	1			15.7	22 14				Atlantic Ocean.
	March									
25	6	3		i52 26			.7			Following movement faint. Faint. Archipelago.
26	6	8					.7			
27	6	9		32 50	36.3		.7			
28*	6*	15			54 50	58.2	1.8			
29	7	6					.9			
30	7	11					.7			
31	8	3			56.8	65.9	1.3			
32*	10*	16	36 38	44 1					52	Sea of Okhotsk. No Z record. Faint. Timor.
33	15	9			16 19		.8		18	
34	16	5					.8			
35*	26*	7			31.7	41 21	1.1			
36	26	11						.9		
37	30	8			58		1.4			
38	30	15			39.2	49 37	1.3			
39*	31*	12	41.3	47 17	42 47	49.8			40	Aegean Sea.
	April									
40	2	5					.2			
41	2	20					.9			
42	4	9						.9		Faint.
43	10	14			42.6		.9			Faint.
44	15	10						.2		

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks			
			P		S								
			m	s	h	m	s	m	s	h	m	°	
	1930 April												
45	16	4										38	
46	16	13								52			
47	16	14				46	49			.9			
48	17	20	14	21									Later phases not clearly marked.
49	20	16				52.8				1.3			
50	21	10	i 29	46		38.4				.8		64	S small, uncertain.
51	21	12				9	46	14.4		.8			Atlantic Ocean.
52	21	22								.5			
53	23	18				43.9				.9			Alaska.
54	23	21	59	30	68	10	69	31		1.3		64	East of Japan.
55	24	0				43				.9			
56	25	15				.4				.6			
57	26	7										2	
58	26	15								.6			
59	26	16								72			Recording interrupted 16 ^h —17 ^h 12 ^m .
60	27	10								.9			Faint.
61	27	14				46	30	56.1					
62	27	21				56							Faint.
63	28	13								.5			
64	28	18	46	22	i 56	3	61.1	63.8		1.3		74	China. E record only.
65	29	8								.8			
66*	30*	16				24	54	26.7					Tonga.
	May												
67	1	1	i 9	26	i 18	54	12.2	19	17	.6		72	Japan.
68	1	5								.0			
69	1	10									.9		Faint.
70	2	2				2.1	12.0			.8			
71	2	6				22	22	32.3		1.1			
72	5	10								.4			
73*	5*	13	i 58	20	i 68	39				1.5		81	Burma.
74	6	7				19							
75*	6*	22	42	56	49	51						48	Persia.
76	7	14								14			
77	8	5				.8							
78	8	13				6.6	9.1			.8			Overlapped by next shock.
79	8	13				58	8			1.5			" " " "
80	8	15									.4		" " " "
81*	8*	15	43	56	50	48	45	50	54	41	1.0	48	Armenia.
82	8	18								.4			
83	8	23				10.5				.3			
84	8	23								.9			
85	9	7	15	43			17.5	21.3		.5			No distinct S.
86	9	8								.4			
87	9	14				23.5				.6			
88	10	0								.9			Faint.
89	10	22								.2			
90	10	22				38.4				46			
91	11	22	45	54	54.3		48.1	61				62	Persia. S uncertain.
92	12	0	31	20	40.0		46.5			.9		64	" " "

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks			
			P		S								
			m	s	h	m	s	m	s	h	m	°	
	1930												
	May												
93	12	3				1				.8			Faint.
94	12	22								.7			Small preceding movement.
95	13	1								.0			Faint.
96	13	1								.9			"
97	13	5								.7			"
98	13	6								.9			"
99	13	8				34.0				.8			
100	13	16								.1			
101	13	18								.4			
102	13	20									.9		Faint.
103	14	19				49.8				.9			
104	16	2								.7			
105	16	2				58.9				.1			
106	16	21								.0			Faint.
107	18	0				27 36	28 45			1.0			
108	18	23									54		
109	19	3				36.0	38.1			1.2			
110	19	14									54		Faint.
	19												Recording interrupted 15 ^h -17 ^h .
111	19	21								.3			
112	20	8				.3				.8			
113	20	11	24.8		32 45*	27.3	36.9				58		E record only. Aleutian Islands.
114	21	12								.5			
115	21	22				19.8				21			
116	22	5									52		Small wave-groups.
117	22	6									0		" "
118	23	0								.8			
119	23	10				7				.2			
120*	23*	16	49 39		159 5						72		Japan.
121	24	22								.3			Small preceding movement.
122	29	8				50 59	52.2						Time uncertain.
123	29	17				32				41			
124	30	15									37		Small wave-group.
125	31	10				42				46			
126	31	18	9 46		19 11*	12.5				.6		71	Japan.
	June												
127	1	3				23				.9			
128	1	4									.3		
129	1	13				.4	35			1.1			
130	3	18									.3		Disturbed.
131	4	7	36 39		43.2	38.3				.8		45	Persia. S small, uncertain.
132*	4*	10				9 24	11.4			.8			
133	5	12				3 30	20.7						
134	5	17									.2		Disturbed.
135	5	22									.4		Faint.
136	6	8				25				.6			Salomon Islands.
137*	11*	1				9 33	19.2						
138	12	10								.2			
139*	13*	1	3 36		11.5	6.9	15.3			.4		57	

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NOTES

- No. 16. Febr. 14. 18^h. Aegean Sea. Deep focus. Phases in forerunners large, begin sharply. Additional readings: i 46^m21^s; 52^m37^s. L small.
- No. 28. March 6. 15^h. Additional readings: 57^m.7; 76^m.0; 77^m.8.
- No. 32. March 10. 16^h. Sea of Okhotsk. P quite small, readable on Z only. S large and sharp. L faint.
- No. 35. March 26. 7^h. Timor; $\Delta = \text{ca. } 115^\circ$. No Z record. P quite faint, possibly 27^m.0; P' faint, 30^m.0. PP most clearly marked on N ; followed by much movement. PS large, 41^m21^s, followed by large movement, e_N 42^m.2, e_E 42^m.6; SS 47^m.6; SSS 51^m.6. Waves of long period in first part of L .
- No. 39. March 31. 12^h. Aegean Sea. P quite small, readable on Z only. PP large and well defined.
- No. 66. April 30. 16^h. Tonga. No N record. Additional readings: 34^m44^s; 43^m38^s. Recording interrupted 16^h46^m.
- No. 73. May 5. 13^h. Burma. P sharp on Z , condensation; continued oscillatory movement until S . After S , stronger oscillatory movement. Large M of long duration.
- No. 75. May 6. 22^h. Persia. Strong record. iP 42^m57^s, followed by much oscillatory movement; e_E 44^m48^s; e_Z 45^m16^s; e_E 45^m32^s. eS 49^m51^s, iS 49^m58^s, large on E . After S , large oscillations; very large oscillations, (SS), begin 53^m.5. Large M .
- No. 81. May 8. 15^h. Armenia. Phases clearly marked. Forerunners until SS largest on E . PP , about as large as P , followed by much movement. SS large and very clearly marked on N . Additional readings: $e_{N,E}$ 52^m.4; e_E 56^m.4. Recording interrupted soon after the beginning of L .
- No. 120. May 23. 16^h. Japan. P on Z only, small but clearly marked; S large, the movement otherwise quite small. Time uncertain, owing to clock-repairs.
- No. 132. June 4. 10^h. Additional readings: 14^m34^s; 15^m43^s; 18^m.3; 19^m.1.
- No. 137. June 11. 1^h. Salomon Islands. Additional readings: 20^m.5; 26^m.1.
- No. 139. June 13. 1^h. South of Aleutian Islands. S quite small. On E , a later clearly marked phase 13^m29^s, possibly $\overline{S_c P_c S}$.
- No. 151. June 25. 10^h. Peru. No Z record. P small, not quite certain. PP 34^m.6. $\overline{S_c P_c S}$ not clearly marked, about 41^m.6. S 42^m7^s clearly marked on N .
- No. 156. June 25. 21^h. Peru. $\Delta = \text{c. } 90^\circ$. Additional readings: 36^m.0; PP 38^m.6; PS 47^m.1; SS 51^m.9; SSS 55^m.5. $\overline{S_c P_c S}$ 45^m32^s and S 45^m58^s clearly marked on N .