

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. 18. Jan.—Dec. 1938

Instruments:
 Galitzin-Wilip seismographs.
 Constants:

Component	l	A_1	T_1		μ^2	T	k
	cm	cm	sec			sec	
N	12.0	100	11.8	$1/1-23/5$	0.0	12.0	52
				$23/5-23/11$	0.0	12.6	104
				$23/11-31/12$	0.0	12.2	52
E	12.0	100	11.9	$1/1-28/5$	0.0	11.6	49
				$28/5-23/11$	0.0	11.8	100
				$23/11-8/12$	0.2	11.6	50
				$8/12-31/12$	0.0	11.7	50
Z	14.9	100	10.0	$1/1-21/5$	0.0	8	60
				$21/5-23/11$	0.1	8	106
				$23/11-31/12$	0.0	8	60

Scoresby-Sund.

No.	Date	Hour	Forerunners				L	△	Remarks
			P	S	m s	m s			
	1938								
	Jan.								
1	1	11			45 55		58		
2	1	23	<i>i</i> 40 26	50 47	51 4	56.1	64	83	
3	2	22	38 34	47 51	52.1		64	71	
4	11	15		33 19					
5	22	2					57		
6	22	4					11		
7	23	8	45 15	55 35			67	83	
8	24	10			51 1	54 29			
	Febr.								
9	1	19	19 17		23 57	<i>i</i> 26 20			
10	5	2	35 1	44 20	35 29	44 59			
							6		
11	10	7					42		
12	10	8					18	48	
13	14	3	<i>i</i> 2 53	9.8	<i>i</i> 4 43	10 10	49	52	
14	15	3	36 51	44 11			19	52	
15	15	7	6 17	13 38			24		
16	24	17					37		
17	24	17					28		
18	24	20							
	March								
19	8	5							
20	14	0	59 55						
			25 35						
21	22	15	30 49	37 54	32 44	36 17	46	49	
	April								
22	13	2	<i>i</i> 52 32		53 57	<i>i</i> 54 5			
23	14	1	<i>i</i> 28 15	37 51	<i>i</i> 30 12	38 49		75	
24	17	14	53 0		56 49	63 53			
25	19	11	7 15	13 34	7 40	8 51		42	
26	20	6			49 43		1.5		
27	22	4		31 53			40		
28	23	0	40 1	50 4	43 14	55.3	68	80	
29	25	9			6 48		9		
30	25	11					42		
31	25	17			28.2		36		
32	29	2					43		
33	29	5					0		
	May								
34	3	2	<i>i</i> 26 25	35 25	26 45	35 53	50	68	
35	3	19			<i>i</i> 26 16				

Scoresby-Sund.

No.	Date	Hour	Forerunners				L	△	Remarks
			P	S	m s	m s			
	1938								
	May								
36	30	9					16		
37	30	14	<i>i</i> 48 55		<i>i</i> 51 3				
38	30	23	38 25				.8		
	June								
39	9	5					19		
40	9	19	29 40		32.9	34 18			
41	10	10	5 56	16 8	6 2	6 14		82	
42	10	18	17 14	26 29	30 22	34.3		71	
43	11	13					.7		
44	15	13			3.4		.8		
45	16	2	<i>i</i> 27 26	37 28	30 39	33 53		49 80	
46	16	21						9	
47	18	9						54	
48	20	23	<i>i</i> 59 52	67 23	59 57	<i>i</i> 60 5		53	
49	23	13			16 41	<i>i</i> 17 56			
50	24	7						41	
51	24	9			34 9				
52	25	23	47 39	49 41	47 42	49 46		11	
53	28	19	28 47	37 47				52 68	
54	29	3			50 58				
55	30	17			7 12			46	
	July								
56	1	12						49	
57	2	7	43 4	45 3				11	
58	4	21	.31 47		33 59	35 9	1.3		
59	5	2			26 17		1.2		
60	5	22	26 24		28 41	<i>i</i> 29 52			
61	6	1	43 38		45 55	47 6	1.4		
62	6	10			2 11				
63	7	17			51 7				
64	8	14	11 14	21 30				82	
65	8	22						52	
66	9	9						22	
67	12	12	55 59		58 14	59 29	1.7		
68	17	11			29 44		.6		
69	19	9			19 7				
70	19	10						46	

Scoresby-Sund.

No.	Date	Hour	Forerunners				L	△	Remarks
			P	S	S	S			
71	1938 July 19	21			47 45			Some preceding movement. 37 ^m 56 ^s . 40 ^m .2. Deeper than normal. Greece.	
72	20	0	31 14	37 21	32 51	33 28			
73	21	9			33 38			73 ^m .2. 76 ^m .5. No Z record. P uncertain. Off Mexico.	
74	22	7	59 32	68 41			.9 79		
75	23	11						No records 23 ^d 13 ^h 58 ^m -24 ^d 13 ^h 41 ^m .	
76	24	13					15		
77	27	12					41		
78	27	13					37		
79	27	14					27		
80	27	14					7		
							20		
							2		
81	27	15			18.2		.6	Greenland Sea.	
82	27	17					56		
83	27	19	53 55				35		
84	27	22					13		
85	28	4					.8		
86	28	8	27 35	36 3				63 Kurile Islands. 28 ^m 19 ^s . SKS 31 ^m 0 ^s . 32 ^m 1 ^s . 32 ^m 22 ^s . PS 33 ^m .4. SS 39 ^m 0 ^s . Off Sumatra.	
87	29	13	20 23		24 31	26 39	55		
							60		
88	Aug. 3	13			49 44	53 59		No Z record. 19 ^m 27 ^s . 20 ^m 49 ^s . 25 ^m .0. 26 ^m 19 ^s . No Z record. Depth about 200 km. Argentina.	
89	4	9	8 18		9 7	18 35			
90	7	22					48	Nos. 90-112 probably all from the same focus, East of Scoresby-Sund in Greenland Sea.	
91	7	22					57		
92	8	0					37		
93	8	13	7 36		8 5				
94	8	13			9.7				
95	8	13	15 18		15 50				
96	8	13	31 11		31 39				
97	8	13					55		
98	8	14					33		
99	8	14					49		
100	8	15	35 46		36 15				
101	8	16					6		
102	8	16	16 1		16 32				
103	8	16	32 12		32.7				
104	8	16					40		
105	8	16					48		
106	8	16	50 18		50 46				
107	8	19	2 19		2 52				
108	8	20					32		
109	8	20					48		
110	9	18	16 1						

Scoresby-Sund.

No.	Date	Hour	Forerunners				L	△	Remarks	
			P	S	S	S				
111	1938 Aug. 9	22						15	76 i 49 ^m 33 ^s . 50 ^m .6. 53 ^m .5. 54 ^m .3. 57 ^m .9. Burma. 55 ^m 19 ^s . 57 ^m 21 ^s . 58 ^m 17 ^s . 63 ^m .2. Sumatra. Depth about 100 km. No E record.	
112	10	1						2		
113	14	8	46 11					47		
114	16	4	39 44	49 29	41 57	42 39		63		
115	18	9			49 19	54 36				
116	18	19			29 26			48		
117	20	8			56 24	59.7		87		
118	25	1			46 5	46 45		79		
119	28	21	3 53							42 ^m .3 small, uncertain. 50 ^m 46 ^s . 52 ^m 55 ^s . 56 ^m .1. 57 ^m .0. Deeper than normal. Off Sumatra. Greenland Sea. No records 15 ^h 27 ^m -21 ^h 40 ^m .
120	30	0						10		
121	30	2						42		24 ^m 39 ^s . North of New Guinea.
122	30	5						6		
123	30	9						3		
124	30	12			9 9	20 34		36		
125	30	15						6		
126	30	15						12		
127	30	15						26		
128	30	19			31 7					
129	Sept. 1	22	59 41	68 54	62 28	64 7		81	71 69 ^m 40 ^s . 73 ^m .4. 77 ^m .4. Off Guatemala.	
130	3	4			52 12					
131	3	6			42 18				82 South of Kurile Islands. P small, uncertain. E of Mindanao. 22 ^m 57 ^s . 26 ^m 54 ^s . 31 ^m 19 ^s . 37 ^m .3. Formosa. 23 ^m 28 ^s . 24 ^m 33 ^s . 27 ^m 30 ^s .	
132	5	15			2 17	6 5	.9	75		
133	6	20	56 31					43		
134	7	2	8 30		12 39	19 6		41		
135	7	4	i 15 40	i 25 54	18 45	22 31				
136	7	13			17 50	18.6		56		
137	18	1			48 27	49 49		71		
138	18	3	58 7		59 45	63 53			73 64 ^m 53 ^s . No well-defined S. Greece. Strong microseisms. Japan.	
139	21	19	3 25	12 51				29		
140	22	5						36	73 Abyssinia. 42 ^m 46 ^s . 45 ^m 18 ^s . 46 ^m .4. 52 ^m .2. Solomon Islands region. No records 39 ^m -58 ^m .	
141	22	5						27		
142	22	6								
143	27	2	43 12	52 37	45 44	41 35				
144	27	10			35.3					
	28	18								
	Oct. 7								No records 13 ^h 47 ^m -22 ^h 3 ^m .	

Scoresby-Sund.

No.	Date	Hour	Forerunners				L	△	Remarks					
			P		S									
			<i>m</i>	<i>s</i>	<i>m</i>	<i>s</i>	<i>m</i>	<i>s</i>	<i>m</i>	<i>s</i>	<i>h</i>	<i>m</i>	°	
145	1938 Oct. 9	17					1	57				58		
146	10	21	2	16	14	5	2	33	5	42				6 ^m 35 ^s , 8 ^m 58 ^s , 12 ^m 49 ^s , 15 ^m 45 ^s , 16 ^m 30 ^s , 17 ^m 6 ^s , Celebes region.
147	12	0	45	34	54	40	45	54	48	11			69	East of Japan.
148	19	4	22	35	29	48	24	38	33.2				51	Altai Mountains.
149	20	2					39	2	40	38				41 ^m 48 ^s , <i>i</i> SKS 44 ^m 38 ^s , 45 ^m 52 ^s , <i>i</i> PS 48 ^m 25 ^s , SS 55 ^m .3. Deeper than normal. Lesser Sunda Islands.
150	29	13	20	3	29	29	34.4						73	Japan.
151	Nov. 5	8	<i>i</i> 54	44	<i>i</i> 64	5	57	27	59	23			72	64 ^m 32 ^s , 64 ^m 57 ^s , East of Japan.
152	5	11	<i>i</i> 1	37	10	59							72	No <i>E</i> record. East of Japan.
153	6	9	5	13	14	48	6	46	8.0				75	10 ^m 6 ^s , 13 ^m .7. No <i>E</i> record. East of Japan. Very strong microseisms.
154	6	21												
155	8	20									53			
156	8	21									12			
157	9	9	27	21	<i>i</i> 36	49	27	48	28	49				37 ^m 32 ^s , 38 ^m 23 ^s , 41 ^m 42 ^s . Deeper than normal. East of Japan.
158	10	10	58	40	68	12							74	<i>P</i> small, uncertain. Very large movement; later phases not readable. South of Alaska.
159	10	20	27	43			<i>i</i> 27	50						South of Alaska.
160	11	1	6	45	14.3								54	Very strong microseisms.
161	13	22												15 ^d 12 ^h 50 ^m —16 ^d 2 ^h 48 ^m no records.
162	17	4	<i>i</i> 3	34	10	38	5	32	10	49			49	13 ^m .4. South of Alaska.
163	19	5					58.7				1.2			
164	22	1	25	32	34	59	27	31	39.8				74	Japan.
165	30	2			50	37					1.1			
166	Dec. 6	9	14	33			15	9						
167	6	23	13	19							.6			Formosa.
168	9	4			11	4	6.3		11	18		17		14 ^m .1.
169	23	18	23	48	31.1							39	51	<i>P</i> and <i>S</i> small, uncertain. South of Alaska.