

No. 23

1949

Geodætisk Institut

Proviantsgården, 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. 23. Jan.—Nov. 1949.

Instruments:

Galitzin-Wilip seismographs.

Constants:

Component	l	A_1	T_1		T	k
	cm.	cm.	sec.		sec.	
N	12.0	100	11.91		11.8	100
E	12.0	100	12.02	$\frac{1}{1} - \frac{3}{6}$	11.7	108
				$\frac{3}{6} - \frac{25}{11}$	12.1	108
Z	14.9	100	10.02		$9\frac{1}{2}$	99

Damping was approximately aperiodic.

Recording was suspended on Nov. 25 owing to repairs.

Scoresby-Sund.

No.	Date	Hour	Forerunners				L	Δ	Remarks			
			P or P'		S							
			m	s	m	s	m	s	h	m	°	
	1949											
	Jan.											
1	19	15							.7			
2	23	1	i 9	14								
3	23	1	i 14	47								Near shock. Masked by microseisms.
4	30	2							7			Near shock. Masked by microseisms.
5	30	7										
6	30	7							51			No E record.
7	30	8							34			
	Febr.											
8	1	14							32			
9	1	18										
10	2	17	i 50	44 +	58	13						
11	10	22							.9			
12	13	18	43	42								
13	14	18										
14	23	16	17	51 +	25	44	19	59	21	3		
15	28	0							42	3		
									1.2			
	March											
16	2	6	56	12	57	23						
17	4	1										
18	4	10	28	54	36	33	30	6	32	13		
19	7	12							3			
20	9	13							0			
21	16	22					34	48	40.6			
22	17	21					24	51	30	56		
23	19	18										
24	24	21	6	35	40	32	14	20	18.2			
25	26	3										
26	27	6	48	5			52	38	58	51		
27	28	13										
28	30	13					11.0		14	16		
29	30	15										
30	30	20					8.7					
31	31	22					9.6		16.1			
	April											
32	2	9										
33	5	9										
34	6	9	6	14	i 45	10			48.6			
35	13	15			6	39						
									39			

Scoresby-Sund.

No.	Date	Hour	Forerunners				L	△	Remarks					
			P or P'		S									
			m	s	m	s	m	s	m	s	h	m	°	
36	1949 April 13	20	i 4	32	i 11	41	5	50	6.3		18			7 ^m .5. 14 ^m 20 ^s . 15 ^m .8. P (-0.7, +1.8, +2.3; +0.9, -1.6, -3.2) per. 5 ^s . Deeper than normal. State of Wash- [ington, U.S.A.
37	14	23					30	42						
38	17	1									.3			
39	20	3					48.9		51.7					SKS 54 ^m .5. PS 57 ^m .9. 58 ^m .4. 62 ^m .7. Masked by very strong microseisms, reading uncertain. Chile.
40	24	4	i 32	24 +	40	43	41	53				61		No time-marks on E. Persian Gulf.
41	25	14	8	50	19	26	18	46	20	24				25 ^m .9. No Z record. Northern Chile.
42	25	23			24	16		27.6			35			No Z record. Turkey.
43	30	1	37	10 +			i 37	12	41	18				41 ^m 52 ^s . SKS 47 ^m 36 ^s . 48 ^m .4. 49 ^m .4. 50 ^m .5. Deeper than normal. Mindanao.
44	May 2	12									0			
45	3	6	6	46 +	14	54	11.0		15	56				i 16 ^m 27 ^s . 17 ^m 30 ^s . No N record. Part of Z record missing. Deeper than normal. [Kurile Islands.
46	3	11									23			Near shock.
47	8	13									23			Near shock.
48	8	13									34			Near shock.
49	8	14	46	48										Near shock.
50	8	21	3	34										Near shock.
51	8	21									56			Near shock.
52	9	13	49	40	60	57	53	30	60	16		95		PS 62 ^m 10 ^s . SS 67 ^m 36 ^s . Sumatra.
53	10	0					45	14			58			
54	10	3									48			
55	13	7	16	22	16	53						3		
56	16	4					52	5	61.8					
57	17	2	i 40	8 +	48	31					60	62		Kurile Islands.
58	21	21	i 51	30 +	i 60	49	i 54	11	61	14				SS 65 ^m .4. Japan.
59	23	4					40	28			1.4			
60	24	2					51	9			1.7			
61	24	14									25			
62	24	16									55			
63	25	0					35	25						Near shock.
64	25	7									29			
65	25	8	i 33	27 +	41	26	35.5		36	36		58		43 ^m 22 ^s . 47 ^m .0. Eastern Turkestan.
66	26	6									38			
67	27	11									23			
68	30	1					56	41	64.7					Chile.
69	June 7	5									56			
70	11	7					56.0							
71	11	14					36	55			58			
72	11	18					10	53			13			
73	11	20									24			

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No.	Date	Hour	Forerunners				L	△	Remarks			
			P or P'		S							
			m	s	m	s	m	s	h	m	°	
74	1949 June 12	18			16	11	8.5	9.6				12 ^m .6. SKS 15 ^m 4 ^s . SP 17 ^m 49 ^s . PS 19 ^m 10 ^s . sS 20 ^m .0. Depth ca. 600 km. Northern Argentina.
75	14	0					44	50	46.5	65		57 ^m .2.
76	14	6								21		
77	16	18							18.8			
78	19	9								1.0		Small preceding movement.
79	19	12							43.6			
80	20	5								11		Near shock.
81	20	10								26		
82	23	22						48.4	51.5			SS 65 ^m .7. New Hebrides Islands.
83	24	22	53	4			57	34	63	46		64 ^m 1 ^s . PS 67 ^m .0. SS 72 ^m .0. Java.
84	25	19						38.7	48.4			
85	26	8	55	40	67.6		66	10	69	20	93	SS 75 ^m .1. P quite small, uncertain. Molucca Sea.
86	26	21			16.8			11.3	20.6	27		Kamchatka region.
87	27	1								4		Small preceding movement.
88	27	21						29.3	39.6			
89	27	23								1.1		Small preceding movement.
90	28	20						24.4				
91	July 1	23								.4		
92	2	3								.1		
93	2	11						52	2	58	52	60 ^m 6 ^s . 62 ^m 27 ^s . SS 72 ^m .4. Southwest of New Zealand.
94	2	20	i 10	26 -	21	30	14	12	16	54	93	i SKS 20 ^m 56 ^s . PS 22 ^m 42 ^s . SS 27 ^m .9. SSS 33 ^m .9. Marianne Islands region.
95	4	3	i 50	53 +	59	11	53	5	63.1		61	SSS 65 ^m .5. Persian Gulf.
96	5	2	40	16	48	37					62	Persian Gulf.
97	5	8							3.8			
98	6	1							31.7			
99	6	4								14		
100	7	4			45	2				48		North Atlantic Ocean.
101	7	12						30.8		46		
102	8	8			19	33		22.6				Turkestan.
103	8	11								20		
104	8	12	51.8		61	16				76		P and S small, uncertain.
105	8	18	19	51						21		Arctic Sea.
106	9	18	53	15	60	7				67	47	Atlantic Ocean.
107	10	4	i 3	9	10	51	5	12	9.5		55	9 ^m .9. 11 ^m 11 ^s . 13 ^m .1. 14 ^m .5. P (-0.3, -2.0, +1.9; +3.0, +11.7, -8.0) per. 8 ^s . Turkestan.
108	10	11								15		Small preceding movement.
109	10	12								27		
110	10	14	22	58	30	39	26	10			55	Turkestan.
111	10	15			36	17				46		Recording interrupted 15 ^h 21 ^m -15 ^h 29 ^m .
112	10	15	58	46	66	32	68	36	70	21	56	71 ^m .4.

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No.	Date	Hour	Forerunners				L	△	Remarks			
			P or P'		S							
			m	s	m	s	m	s	h	m	°	
113	1949 July 10	16	i 33	33	41	10	35	38	36	39	55	40 ^m 5 ^s . 42 ^m .9. 43 ^m 24 ^s . 44 ^m .9. Japan. Small preceding movement.
114	11	16	22	23 -	31	53	22	35	27.1	48	74	
115	12	4								50		
116	12	17								44		
117	13	9								22		
118	13	10								42		
119	13	18								58		
120	14	0								.8		
121	14	3								.7		
122	14	11								27		
123	14	19								52		
124	14	20								1.5	79 Forerunners not clearly marked. Depth about 400 km. Bonin Islands. P small, uncertain. Off coast of Guatemala. Some preceding movement.	
125	14	23	32	31	41	55	34	2	44	33		
126	15	9					45.2					1.2
127	15	11					43.5					1.1
128	16	10	8	39								35
129	17	15										.7
130	18	0					58.0	62	8			1.4
131	18	4					66	13	67	11		
132	19	17	51	43 +	59	27	54.9		61.5			55
133	20	22	39	29			41	49	49.8			
134	21	8	14	38 -	25	36	15	8	25.1		93	
135	23	9					1	26	3	57		
136	23	10	i 45	34 +			i 47	39 +	48	56		
137	23	15	11	12	i 17	27	11	16	12	52	41	
138	24	20									42	
139	25	11					44.9				1.3	
140	27	11					21	9	30	41		
141	27	15	31	0			33	33	34	26		
142	28	5									1.1	
143	28	8									.5	
144	28	13									9	
145	29	7									49	
146	30	17					56.6				1.3	
147	30	21									69	
148	31	0					23.7				45	
											39	
149	Aug. 1	7					49	51	58.1			
150	1	8									.6	
151	2	7					29.2					
152	3	0									.0	
153	3	4									.6	
154	3	21									.5	
155	4	8					20.8				.8	

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No.	Date	Hour	Forerunners				L	△	Remarks				
			P or P'		S								
			m	s	m	s	m	s	h	m	°		
191	1949 Sept. 16	19					36.1	39.5					Celebes region.
192	17	2							57				
193	17	23							.9				Some preceding movement. No clearly [marked phases.
194	19	22					19.8		.7				
195	20	2					47.3		1.1				
196	20	12	14	44			17.4	18 20	1.0				18 ^m 47 ^s . 28 ^m .9. 29 ^m .8. 34 ^m .7. Kermadec Islands.
197	21	13	i 6	8 +	15	4	6 36	16 4			69		20 ^m .2. Depth ca. 110 km. Southern [Mexico.
198	21	19					0.1		.3				
199	24	4					37.6	47.1	1.2				52 ^m .4. Solomon Islands region.
200	25	15					44.6		1.2				
201	27	15	38	57	45	30	40 49	42 57	52		44		PcS 44 ^m 50 ^s . 48 ^m 7 ^s . iSS 48 ^m 54 ^s . P irregular, masked by microseisms, possibly 2 sec. earlier than read. [Alaska.
202	30	4					37.8		1.1				
203	Oct. 4	10											Mid-Atlantic Ocean.
204	7	12	21.5		41	10	22 25	27.1	1.0				SKS 28 ^m 20 ^s . 29 ^m 5 ^s . 29 ^m 32 ^s . PS 32 ^m .1. 35 ^m 17 ^s . SS 39 ^m .0. Indian Ocean.
205	8	3							.4				No records 17d 14h to 27d 7h.
206	27	8							57				
207	31	0					41.0		1.0				
208	31	1	47	52	54	35	49 40	57.8			46		Alaska.
209	31	18					15.3	22 53					PS 24 ^m 47 ^s . SS 31 ^m .0. New Hebrides Islands region.
210	Nov. 1	13							.6				
211	4	21							.2				
212	7	6					30.4	31 55	.9				Masked by strong microseisms.
213	11	11							45				
214	11	16							.4				
215	11	17							40				
216	13	5							.2				Small preceding movement.
217	20	7			29	2	33.1						Masked by microseisms. Gulf of California.
218	22	1	10	57			13.6	14 11					15 ^m 31 ^s . 19 ^m 55 ^s . 23 ^m 14 ^s . 24 ^m .7. 25 ^m .9. 30 ^m .4. Kermadec Islands. Deeper than normal. Masked by microseisms.
													25d 16h recording suspended.