

Geodætisk Institut

Proviantgården, 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. 24. Febr.—Dec. 1950.

Instruments:

Galitzin-Wilip seismographs.

Constants:

Component	l	A_1	T_1	μ^2	T	k
	cm	cm	sec		sec	
N	12.0	100	11.91	0.1	11.5	99
E	12.0	100	11.97	0	12.0	102
Z	14.9	100	10.02	0.1	9.6	100

From Sept. 23: Grenet vertical seismograph, $T_1 = 1/4^s$, $T = 1^s$, $V_{max} = \text{abt. } 30\,000.$

i and e refer to the Galitzin-instruments, i and e to the Grenet-instrument.



Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or P'	S					
	1950		m s	m s	m s	m s	h m	°	No recording from 1949 XII 25 ^d 16 ^h to 1950 II 17 ^d 0 ^h .
	Febr.								
1	25	6					21		Strong microseisms.
2	25	10					39		
3	28	10	i 30 54	i 39 00	31 49	32 14			sP 32 ^m 34 ^s , i 39 ^m 06 ^s , i 39 ^m 36 ^s , i 40 ^m 20 ^s , 41 ^m 15 ^s , 45 ^m .4. No N-record. Depth abt. 350 km. Japan.
	March								
4	1	9					.6		
5	2	19			e 02 48		43		Strong microseisms. Sandwich Islands.
6	3	11					56		
7	7	2	e 21.3	i 32 34	25 15	29.0	53		iSKS 31 ^m 44 ^s , iPS 33 ^m 52 ^s , 35 ^m 04 ^s , [SS 39 ^m .3. Philippine Islands.
8	9	10					28		
9	12	5					.0		
10	25	7					40		
11	27	13	i 13 52	e 21 35	15 00	17 04	27.9	55	ScS 23 ^m 32 ^s , SS 25 ^m .6. Aleutian Islands.
12	27	22					21		
13	29	18			e 10 13	15.9	.6		New Guinea.
	April								
14	4	19			00 45		04.3		Strong microseisms. Baikal Lake region.
15	5	1					45		
16	6	3					12		
17	13	12					05.3		
18	15	15	02.5	12.0	16.5		26		Guatemala.
19	16	22					13.0		
20	18	14		56.1	62.3	69.2	79		South-west of Galapagos Islands.
21	18	22			e 08 53		09.3		Near shock. The forerunners doubtful.
22	19	0			26.7				
23	19	1			e 30 37	31 13	31.3		
24	19	3			22.5	23 23	23.7		
25	20	10			e 09 57		23		Kurile Islands.
26	25	23					08		
27	26	7	i 16 34	i 26 06	i 16 48	19 10	41		21 ^m 04 ^s , i 26 ^m 36 ^s , SS 30 ^m 43 ^s , 34 ^m .6. [Japan.
28	26	12				04.0	47		Easter Island region.
29	30	11					84		
	May								
30	1	0					25		
31	2	17					13		
32	5	1					50		
33	7	5					41		
34	7	6	56.1				1.9		West of Macquarie Islands.
35	9	6					45		
36	9	11	e 26 05	e 33 13	27.9	28.9	41	50	33 ^m 47 ^s , SS 37 ^m 08 ^s , 37 ^m 39 ^s , SSS 38 ^m .3. Turkmenia.
37	10	23			57 01	63 38			SKKS 63 ^m 54 ^s , 80 ^m .5. Madagascar.
38	11	13					53		

Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or P'	S					
	1950		m s	m s	m s	m s	h m	°	
	May								
39	13	19					08		
40	15	4					08		
41	15	4					59		
42	15	18					39		
43	16	17			e 41 39	e 47 31	76		ePS 51 ^m 16 ^s , ePPS 52 ^m 37 ^s , SS 57 ^m .1. New Britain.
44	17	5	e 21 56		25 56	32 19	59		35 ^m 41 ^s .
45	17	11	i 56 58	i 65 17	i 58 54	59 34			iScS 66 ^m 01 ^s , sS 68 ^m 48 ^s , 69 ^m 39 ^s . Depth [abt. 600 km. Japan Sea.
46	17	12	i 25 03						
47	17	18	i 32 22		i 34 32	i 35 37			i 35 ^m 52 ^s , eSKS 39 ^m 32 ^s , 41 ^m .8. 44 ^m 39 ^s , i 48 ^m 51 ^s . New Hebrides.
48	19	2	i 57 24		59 34	i 60 45	103		62 ^m 15 ^s , SS 76 ^m 56 ^s . Repetition.
49	19	7	e 24 46		26 52	i 28 10	67		eSKS 31 ^m 44 ^s , PS 37 ^m .1.38 ^m .6. i 41 ^m 48 ^s , SS 44 ^m 20 ^s . Repetition.
50	20	3					43.6		
51	20	9	45.6	e 52 07			.9		North Atlantic Ocean.
52	20	19		e 11 25			23		Hindu Kush.
53	21	9					43		
54	21	19			e 01 46		25		Peru.
55	21	23	e 33 53		i 37 13		82		New Hebrides.
56	22	20			18.1				
57	23	1					54.0		
58	23	8			e 39 15		1.0		
59	23	13					19		
60	24	5					01		
61	25	9		48.3	43.9		56		Alaska.
62	25	19	i 48 45	i 59 34	49 00	52 18			pPP 52 ^m 43 ^s , PPP 54 ^m .9. SKS 58 ^m 52 ^s , PS 61 ^m 05 ^s , SS 66 ^m .1. Depth about 100 km. Mariana Islands.
63	26	1	e 33 23		i 36 16	i 36 31	71		iPP 38 ^m 40 ^s , iPP 39 ^m 11 ^s , iPKS 39 ^m 56 ^s , PPP 41 ^m 27 ^s , i 42 ^m 41 ^s , PS 48 ^m .8. PPS 50 ^m 33 ^s , 52 ^m 05 ^s , i 52 ^m 56 ^s , SS 56 ^m .2. SSS 61 ^m .1. Depth abt. 100 km. New Hebrides.
64	27	13			e 00 43	e 01 58			11 ^m .3. Repetition.
65	27	14			i 47 06				Depth abt. 600 km. Fiji Islands.
66	28	1	55.6		i 58 04	i 59 19			PS 68 ^m 17 ^s , SS 75 ^m .6. New Hebrides.
67	30	1			e 39 22		56		Sandwich Islands.
68	30	16	e 22 04		e 24 16	25.5			34 ^m .4. 35 ^m .4. 36 ^m 14 ^s , SS 40 ^m 39 ^s , Depth abt. 600 km. Tonga Islands.
69	31	13	25.1	35.2	40.4		52		Japan.
	June								
70	5	11	i 20 36				25.7		Arctic Sea.
71	7	15	e 29 55	e 30 49				4.7	L 31 ^m 12 ^s .
72	7	17	i 04 50	i 15 00	i 05 21	15 11	31		PS 15 ^m 44 ^s , PPS 16 ^m 09 ^s , iE 16 ^m 48 ^s , SS 20 ^m .4. Depth abt. 100 km. Northern Peru.

Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or P'	S					
73	1950 June	8	m s	m s	m s	m s	h m	°	iSKS 33 ^m 12 ^s . SKKS 34 ^m 17 ^s . SP [36 ^m 45 ^s . PS 37 ^m 16 ^s . SS 43 ^m .6. SSS [47 ^m .4. Depth abt. 150 km. South of [Tristan da Cunha. SS 56 ^m 44 ^s . Southern Pacific Ocean. 25 ^m .2. Tonga Islands. L 40 ^m 36 ^s . No Z-record. Japan.
74	9	1	e 22 35		e 26 19	27 23	15.9		
75	11	4					21		
76	11	22			35 46	39 45	88		
77	14	4			15.3	22.2			
78	14	9		e 40 23					
79	15	7					49		
80	17	22		i 58 23			74		
81	18	13					13.8		
82	19	12	e 55 21		56 34	e 62 22	89		
83	20	13					22.4		
84	20	14	e 14 16	e 16.0			16.5	9	
85	21	7	e 14 52		i 17 00	i 18 15	1.0		
86	21	10			e 15 22	24.9	51		
87	22	1	e 49 54	e 50 41				4	
88	22	9					08		
89	22	9					46.3		
90	23	4					24		
91	24	22	e 41 38		e 44 41	e 46 46	89		
92	25	11	e 19 46	31.4	24.2	e 30 22	57		
93	27	15	i 52 32	e 61 21	54 33	56.7	74	66	
94	28	23	e 41 56	e 50 28			66	63	
95	29	3					55		
96	29	4					02.6		
97	29	5							
98	29	5							
99	29	5							
100	29	6							
101	July	1					12.1		
102	1	7					21		
103	2	23					15.0		
104	3	10	17.3		21 26	23.4	52		
105	4	1			29 19				
106	5	3			56.3	57 27	1.6		
107	5	22					22.1		

Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or P'	S					
108	1950 July	6	m s	m s	m s	m s	h m	°	iPS 17 ^m 08 ^s . 17 ^m 22 ^s . 19 ^m .9. SS 23 ^m 51 ^s . 28 ^m 38 ^s . 31 ^m 06 ^s . 36 ^m 00 ^s . Possibly two [shocks. Solomon Islands region.
109	7	17			07 09	09.7	46		
110	8	7					30		
111	9	0			30.2				
112	9	0	i 39 10	i 47 52	43 02		1.1	65	
113	9	1			e 59 43	62.7	1.6		
114	9	4	i 51 38	61 19	i 53 55	54 58			
115	9	5	i 01 23						
116	9	9	e 56 39		58 52	59.9			
117	9	16	i 19 36	i 27 29	20 52	22 58		57	
118	9	20					17		
119	10	6					16		
120	12	2					22		
121	12	11	i 18 43	e 26 19	28 31	31 31	36	54	
122	12	15	56.3	e 63 46			70		
123	13	4	i 15 20	i 24 46	i 17 10	20.9			
124	14	12					26.6		
125	17	1					22		
126	17	11					34.9		
127	17	21			39.2	40 24	1.2		
128	18	1			e 47 54	54 22	69		
129	18	16			43.5	50.2			
130	19	5			38 58				
131	19	11	e 01 49	e 09 50			.3	58	
132	20	9	49.8		51 44	61 40	1.5		
133	21	8					31		
134	21	20	i 51 04		i 52 51	55.1	94		
135	22	23			28.4	38.5	65		
136	23	16					49		
137	25	18		e 29 13			35		
138	27	12					06		
139	28	5			15.8	32.6	57		
140	28	13					23		
141	28	17					59		
142	28	18					21		
143	29	14	e 46 53	e 55 03	58.8		66	60	
144	29	17	i 00 02	e 11 50	04 00	04 27	40		

Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or P'	S					
145	1950 July 30	0	<i>m s</i> <i>e</i> 04 01	<i>m s</i>	<i>m s</i> <i>e</i> 07 45	<i>m s</i> 08 50	<i>h m</i>		SP 18 ^m .5. 24 ^m .5. No <i>H</i> -records. Solomon Islands region.
146	Aug. 3	22	<i>i</i> 29 17						No <i>H</i> -records. Destructive. Venezuela.
147	5	9	<i>i</i> 36 49		<i>e</i> 37 28	40 33			PP 41 ^m 07 ^s . Auckland Islands.
148	7	2	<i>i</i> 58 37		<i>e</i> 59 06	62 40			PPP 65 ^m 11 ^s . No <i>H</i> -records. Depth abt. 100 km. Philippine Islands.
149	7	16	01.4		06 02	12.3	41		PS 15 ^m .0. Molucca Passage.
150	8	5					36.0		
151	8	7					19.8		Near shock.
152	8	7					41.9		" "
153	9	11			44 37		44.9		" "
154	13	17		01.5			12		Dominican Republic.
155	14	23	<i>i</i> 04 16		06 31	07 36			iPP 08 ^m 35 ^s . 11 ^m 37 ^s . iSKS 13 ^m 59 ^s . S? 15 ^m 04 ^s . PS 17 ^m 43 ^s . Depth abt. 700 km. Northern Argentina.
156	15	14	<i>i</i> 20 58						Very great destructive quake. Assam.
157	16	5	<i>e</i> 44 36	<i>i</i> 53 57	47 25		73	72	No <i>Z</i> -record. Repetition.
158	16	6	<i>e</i> 53 27	<i>i</i> 62 51	57 42		83		" "
159	16	15		50 03			1.0		" "
160	16	18		12 21			30		" "
161	17	2		15 02			31		" "
162	18	1	<i>e</i> 19 16	<i>i</i> 28 33	21 54	23 34	43		" "
163	18	17	10 10	19 31	12 43	14 29			<i>S</i> masked by <i>L</i> -waves from the next quake. <i>E</i> -record only. Repetition. Great amplitudes. Near shock.
164	18	17					18.2		
165	20	9					.6		
166	21	8		50.5			65		Repetition to no 156.
167	21	23					49		
168	22	2		43.1			61		Repetition to no 156.
169	23	3	<i>i</i> 20 41	<i>i</i> 29 59	23 17	25 02	48	71	ScS 30 ^m 45 ^s . Tibet.
170	23	18	<i>e</i> 58 24	<i>i</i> 67 51	61 07	<i>i</i> 68 41	88		Repetition to no 156.
171	24	18					15		
172	26	4		<i>e</i> 53 49			60		Alaska.
173	26	7					07		
174	30	5					19		
175	30	7					11		
176	31	7	<i>i</i> 19 33	31.0	23 49	<i>i</i> 30 04	56		SKKS 30 ^m 29 ^s . SP 32 ^m .8. SS 38 ^m .0. SSS 42 ^m .3. Philippine Islands.
177	Sept. 2	2	<i>i</i> 56 49	64.7			74		Aleutian Islands.
178	2	13	<i>e</i> 39 02				1.6		
179	5	4							<i>M</i> 31 ^m . Strong microseisms.
180	9	11					15		Strong microseisms.
181	10	3					.9		
182	10	15			36 32	39 34			iSKS 41 ^m 51 ^s . iSKKS 43 ^m 31 ^s . PS
183	13	11					39		[46 ^m 31 ^s . 52 ^m 10 ^s . New Hebrides.

Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or P'	S					
184	1950 Sept. 14	9	<i>m s</i>	<i>m s</i>	<i>m s</i>	<i>m s</i>	<i>h m</i>		
185	19	20			56 18	58 17	78		SS 64 ^m .1. SSS 67 ^m .9. First forerunners [not recorded. New Guinea.
186	21	23					.6		SS 27 ^m .4. Easter Island region.
187	22	8			21.4	22 32	48		sP 15 ^m 50 ^s . iSKS 18 ^m 13 ^s . 18 ^m 55 ^s .
188	23	0			13 39	15 09			[sSKS 21 ^m 04 ^s . SS 29 ^m 58 ^s . sSS 32 ^m 39 ^s . [Depth abt. 450 km. Fiji Islands region.
189	23	6					48		
190	23	19					40		
191	24	23		<i>e</i> 14 09	20.4		25		Afghanistan.
192	25	23			40.4	47.6	70		Philippine Islands.
193	27	4					11		
194	29	6	<i>i e</i> 43 35	<i>i</i> 52 51			66	71	Strong microseisms. Mexico.
195	30	7	<i>i</i> 40 18		<i>i</i> 42 48				Strong microseisms. Repetition to no. 156.
196	Oct. 2	12					22		
197	5	16	<i>i</i> 20 51						Great amplitudes on Galitzin, illegible due to microseisms. Costa Rica.
198	8	3			42 32	48 25			Partly illegible due to microseisms. No [Grenet record. Molucca Passage.
199	15	17					.0		
200	17	15					.7		
201	19	11					03		
202	21	4	<i>i</i> 31 54				70		Depth abt. 100 km. Tonga Islands region.
203	21	9	<i>i</i> 54 22	<i>e</i> 63 43	64 03	68 18	76	72	SSS 71 ^m .7. Mexico.
204	23	16	24 32 ⁿ	<i>i</i> 33 41	27.3	29.0	70		SS 38 ^m 06 ^s . Strong microseisms. [Guatemala.
205	24	0					15		
206	24	1					29		
207	24	6					29		
208	24	10					.1		
209	24	16					36		
210	25	7	<i>i</i> 15 26	<i>e</i> 25 30	<i>i</i> 18 33	<i>e</i> 19 01	.7	79	Riukiu Islands region.
211	26	5					04		
212	26	16					52		
213	27	21	<i>e</i> 47 51						New Hebrides. Perhaps earlier.
214	28	22					49		
215	31	20					57		
216	Nov. 1	13					21		
217	2	15	<i>e i</i> 42 37		<i>i</i> 42 46	<i>i i</i> 46 27			<i>i</i> 46 ^m 36 ^s . 47 ^m 22 ^s . 52 ^m 57 ^s . 62 ^m 47 ^s . Banda Sea.
218	2	15	<i>i</i> 43 43		48 17	54 24			Repetition. Some phases possibly given [to the wrong quake.
219	5	17					10		
220	5	17	<i>e e</i> 49 11	<i>e</i> 58 50	<i>i</i> 49 16	59 04	73	74	59 ^m 39 ^s . SS 63 ^m .7. SSS 65 ^m .9. Strong microseisms. Japan.
221	6	23					.3		
222	11	10					10		M.

Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks					
			P or P'		S									
			m	s	m	s	m	s	m	s	h	m	°	
	1950													
	Nov.													
223	11	14									35			M.
224	17	19	e e	39 32	i	48 48	i	49 33		53.3	62	71		SSS 56 ^m .2. Mexico.
225	22	10	e e	26 15	e	34 07		36 04		37.8	45	57		Aleutian Islands.
226	24	14									07			
227	24	21									21			
	Dec.													
228	1	15	i	00 52	i	08 58					16	59		Strong microseisms. Mid Atlantic Ocean.
229	2	15	i	30 53			i	33 06	i	34 10				<i>i</i> _H 40 ^m 30 ^s . Depth abt. 650 km. Strong microseisms. Western Brazil.
230	2	20	i i	10 52			i i	12 48						Strong microseisms. Recording interrupted. New Hebrides.
231	4	16	e	46.9				47 35		50 28	1.4			52 ^m 55 ^s . 53 ^m 18 ^s . 55 ^m 15 ^s . PS 57 ^m 01 ^s . [SS 63 ^m 18 ^s . New Britain region.
232	4	16	i	54 05										
233	4	16	i	57 18										
234	5	22	e	05.6							.6			Riukiu Islands?
235	9	21	i	52 24				62 47						Strong microseisms. Depth abt. 200 km. Northern Argentina—Chile border region.
236	14	2	i i	11 30				13 30		14 55				SS 30 ^m .2. Strong microseisms. Depth [abt. 200 km. Tonga Islands region.
237	14	13									52			
238	14	14	i i	26 59	i	36 18					54	71		Southern Mexico.
239	26	14	i	02 52	e	12 18					28			
240	29	12	i	06 53							22			
241	29	20									46			
242	30	4	i	37 41										
August 1955														HENRY JENSEN