

No. 24

1950

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	
<i>N</i>	12.0	100	11.91	0.1	11.5	99
<i>E</i>	12.0	100	11.97	0	12.0	102
<i>Z</i>	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					
			m s	m s	m s	m s	h m	°	
	1950								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.
28	26	12					47		[Japan.
29	30	11			04.0		84		Easter Island region.
	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									
			m	s	m	s	m	s	m	s	h	m	°	
39	1950 May	19									08			
40	15	4									08			
41	15	4									59			
42	15	18									39			
43	16	17					<i>e</i> 41	39	<i>e</i> 47	31	76			<i>ePS</i> 51 ^m 16 ^s . <i>ePPS</i> 52 ^m 37 ^s . <i>SS</i> 57 ^m .1. New Britain.
44	17	5	<i>e</i> 21	56				25	56	32	19			35 ^m 41 ^s .
45	17	11	<i>i</i> 56	58	<i>i</i> 65	17	<i>i</i> 58	54		59	34			<i>iScS</i> 66 ^m 01 ^s . <i>sS</i> 68 ^m 48 ^s . 69 ^m 39 ^s . Depth [abt. 600 km. Japan Sea.
46	17	12	<i>i</i> 25	03										[abt. 600 km. Japan Sea.
47	17	18	<i>i</i> 32	22			<i>i</i> 34	32	<i>i</i> 35	37				<i>i</i> 35 ^m 52 ^s . <i>eSKS</i> 39 ^m 32 ^s . 41 ^m .8. 44 ^m 39 ^s . <i>i</i> 48 ^m 51 ^s . New Hebrides.
48	19	2	<i>i</i> 57	24				59	34	<i>i</i> 60	45	103		62 ^m 15 ^s . <i>SS</i> 76 ^m 56 ^s . Repetition.
49	19	7	<i>e</i> 24	46				26	52	<i>i</i> 28	10	67		<i>eSKS</i> 31 ^m 44 ^s . <i>PS</i> 37 ^m .1.38 ^m .6. <i>i</i> 41 ^m 48 ^s .
50	20	3										43.6		<i>SS</i> 44 ^m 20 ^s . Repetition.
51	20	9	45.6		<i>e</i> 52	07						.9		North Atlantic Ocean.
52	20	19			<i>e</i> 11	25						23		Hindu Kush.
53	21	9										43		
54	21	19					<i>e</i> 01	46				25		Peru.
55	21	23	<i>e</i> 33	53			<i>i</i> 37	13				82		New Hebrides.
56	22	20						18.1						
57	23	1										54.0		
58	23	8					<i>e</i> 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>i</i> 48	45	<i>i</i> 59	34		49	00	52	18			<i>pPP</i> 52 ^m 43 ^s . <i>PPP</i> 54 ^m .9. <i>SKS</i> 58 ^m 52 ^s . <i>PS</i> 61 ^m 05 ^s . <i>SS</i> 66 ^m .1. Depth about 100 km. Mariana Islands.
63	26	1	<i>e</i> 33	23			<i>i</i> 36	16	<i>i</i> 36	31		71		<i>iPP</i> 38 ^m 40 ^s . <i>ipPP</i> 39 ^m 11 ^s . <i>iPKS</i> 39 ^m 56 ^s . <i>PPP</i> 41 ^m 27 ^s . <i>i</i> 42 ^m 41 ^s . <i>PS</i> 48 ^m .8. <i>PPS</i> 50 ^m 33 ^s . 52 ^m 05 ^s . <i>i</i> 52 ^m 56 ^s . <i>SS</i> 56 ^m .2. <i>SSS</i> 61 ^m .1. Depth abt. 100 km. New Hebrides.
64	27	13					<i>e</i> 00	43	<i>e</i> 01	58				11 ^m .3. Repetition.
65	27	14					<i>i</i> 47	06						Depth abt. 600 km. Fiji Islands.
66	28	1	55.6				<i>i</i> 58	04	<i>i</i> 59	19				<i>PS</i> 68 ^m 17 ^s . <i>SS</i> 75 ^m .6. New Hebrides.
67	30	1					<i>e</i> 39	22				56		Sandwich Islands.
68	30	16	<i>e</i> 22	04			<i>e</i> 24	16		25.5				34 ^m .4. 35 ^m .4. 36 ^m 14 ^s . <i>SS</i> 40 ^m 39 ^s . Depth abt. 600 km. Tonga Islands.
69	31	13	25.1		35.2		40.4					52		Japan.
70	June	5	<i>i</i> 20	36								25.7		Arctic Sea.
71	7	15	<i>e</i> 29	55	<i>e</i> 30	49							4.7	<i>L</i> 31 ^m 12 ^s .
72	7	17	<i>i</i> 04	50	<i>i</i> 15	00	<i>i</i> 05	21	15	11		31		<i>PS</i> 15 ^m 44 ^s . <i>PPS</i> 16 ^m 09 ^s . <i>iE</i> 16 ^m 48 ^s . <i>SS</i> 20 ^m .4. Depth abt. 100 km. Northern Peru.

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No.	Date	Hour	Forerunners				L	△	Remarks			
			P or P'		S							
			m	s	m	s	m	s	h	m	°	
108	1950 July 6	7							21			
109	7	17			07	09	09.7		46			<i>iPS</i> 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.
110	8	7							30			
111	9	0					30.2					Solomon Islands.
112	9	0	<i>i</i> 39	10	<i>i</i> 47	52	43	02	1.1	65		Baluchistan.
113	9	1			<i>e</i> 59	43	62.7		1.6			SKS 65 ^m 31 ^s . 69 ^m 39 ^s . 76 ^m .0. SW of Easter Island.
114	9	4	<i>i</i> 51	38	61	19	<i>i</i> 53	55	54	58		<i>iSKS</i> 61 ^m 06 ^s . 62 ^m 09 ^s . 63 ^m 12 ^s . 65 ^m 17 ^s . 66 ^m 07 ^s . 67 ^m 11 ^s . 70 ^m 53 ^s . 73 ^m 58 ^s . Some of the phases possibly due to next quake. Depth abt. 600 km. Western Brazil.
115	9	5	<i>i</i> 01	23								Repetition. See previous quake.
116	9	9	<i>e</i> 56	39			58	52	59.9			<i>eSKS</i> 66 ^m 07 ^s . 67 ^m 16 ^s . 70 ^m 12 ^s . SS 72 ^m 07 ^s . 75 ^m .0. Repetition.
117	9	16	<i>i</i> 19	36	<i>i</i> 27	29	20	52	22	58	57	28 ^m 50 ^s . 30 ^m .9. 32 ^m .8. Pakistan.
118	9	20							17			
119	10	6							16			
120	12	2							22			
121	12	11	<i>i</i> 18	43	<i>e</i> 26	19	28	31	31	31	54	Aleutian Islands.
122	12	15	56.3		<i>e</i> 63	46			70			Kamchatka.
123	13	4	<i>i</i> 15	20	<i>i</i> 24	46	<i>i</i> 17	10	20.9			<i>e</i> 23 ^m 10 ^s . 25 ^m 24 ^s . 28 ^m 01 ^s . Depth abt. [500 km. Bonin Islands region.
124	14	12							26.6			
125	17	1							22			
126	17	11							34.9			
127	17	21					39.2	40	24	1.2		SS 56.6 No Z-record. New Hebrides Islands.
128	18	1			<i>e</i> 47	54	54	22	69			No Z-record.
129	18	16			43.5		50.2					57 ^m 7. No Z-record.
130	19	5			38	58						Near shock.
131	19	11	<i>e</i> 01	49	<i>e</i> 09	50			.3	58		Aleutian Islands region.
132	20	9	49.8				51	44	61	40		64 ^m .1. SS 69 ^m 11 ^s . SSS 73 ^m .1. Fiji [Islands region.
133	21	8							31			
134	21	20	<i>i</i> 51	04			<i>i</i> 52	51	55.1	94		64 ^m .2. <i>i</i> 68 ^m 05 ^s . SS 69 ^m 53 ^s . SSS 72 ^m .7. New Hebrides Islands.
135	22	23					28.4	38.5	65			SS 44 ^m .2. New Hebrides Islands.
136	23	16							49			
137	25	18			<i>e</i> 29	13			35			No Z-record. Mid Atlantic Ocean.
138	27	12							06			
139	28	5					15.8	32.6	57			36 ^m .8. North of Fiji Islands.
140	28	13							23			
141	28	17							59			
142	28	18							21			
143	29	14	<i>e</i> 46	53	<i>e</i> 55	03	58.8		66	60		Southern California.
144	29	17	<i>i</i> 00	02	<i>e</i> 11	50	04	00	04	27		<i>iSKS</i> 10 ^m 35 ^s . <i>SKKS</i> 11 ^m 19 ^s . <i>PS</i> 13 ^m .5. <i>PPS</i> 14 ^m .2. SS 18 ^m 7 ^s . SSS 23 ^m .0. Molucca Passage.

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No.	Date	Hour	Forerunners				L	△	Remarks			
			P or P'		S							
			m	s	m	s	m	s	h	m	°	
145	1950 July 30	0	e 04	01			e 07	45	08	50		SP 18 ^m .5. 24 ^m .5. No H-records. Solomon Islands region.
146	Aug. 3	22	i 29	17								No H-records. Destructive. Venezuela.
147	5	9	i 36	49			e 37	28	40	33		PP 41 ^m 07 ^s . Auckland Islands.
148	7	2	i 58	37			e 59	06	62	40		PPP 65 ^m 11 ^s . No H-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 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 20	58								Very great destructive quake. Assam.
157	16	5	e 44	36	i 53	57	47	25			73	No Z-record. Repetition.
158	16	6	e 53	27	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	e 19	16	i 28	33	21	54	23	34	43	» »
163	18	17	10	10	19	31	12	43	14	29		S masked by L-waves from the next quake. E-record only. Repetition.
164	18	17									18.2	Great amplitudes. Near shock.
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 20	41	i 29	59	23	17	25	02	48	71 ScS 30 ^m 45 ^s . Tibet.
170	23	18	e 58	24	i 67	51	61	07	i 68	41	88	Repetition to no 156.
171	24	18									15	
172	26	4			e 53	49					60	Alaska.
173	26	7									07	
174	30	5									19	
175	30	7									11	
176	31	7	i 19	33	31.0		23	49	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 56	49	64.7						74	Aleutian Islands.
178	2	13	e 39	02							1.6	
179	5	4										M 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									
			m	s	m	s	m	s	m	s	h	m	°	
184	1950 Sept. 14	9									58			
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			
187	22	8				21.4			22	32	48			SS 27 ^m .4. Easter Island region.
188	23	0				13	39		15	09				sP 15 ^m 50 ^s . iSKS 18 ^m 13 ^s . 18 ^m 55 ^s .
189	23	6									48			[sSKS 21 ^m 04 ^s . SS 29 ^m 58 ^s . sSS 32 ^m 39 ^s .
190	23	19									40			[Depth abt. 450 km. Fiji Islands region.
191	24	23			e 14	09		20.4			25			Afghanistan.
192	25	23					40.4		47.6		70			Philippine Islands.
193	27	4									11			
194	29	6	i e 43	35	i 52	51					66	71		Strong microseisms. Mexico.
195	30	7	i 40	18			i 42	48						Strong microseisms. Repetition to no. 156.
196	Oct. 2	12									22			
197	5	16	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 31	54							70			Depth abt. 100 km. Tonga Islands region.
203	21	9	i 54	22	e 63	43	64	03	68	18	76	72		SSS 71 ^m .7. Mexico.
204	23	16	24	32*	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 15	26	e 25	30	i 18	33	e 19	01	.7	79		Riukiu Islands region.
211	26	5									04			
212	26	16									52			
213	27	21	e 47	51										New Hebrides. Perhaps earlier.
214	28	22									49			
215	31	20									57			
216	Nov. 1	13									21			
217	2	15	e i 42	37			i 42	46	i i 46	27				i 46 ^m 36 ^s . 47 ^m 22 ^s . 52 ^m 57 ^s . 62 ^m 47 ^s . Banda Sea.
218	2	15	i 43	43			48	17	54	24				Repetition. Some phases possibly given [to the wrong quake.
219	5	17									10			
220	5	17	e e 49	11	e 58	50	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.

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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										

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