

## Geodætisk Institut

Proviantgården, Copenhagen, Denmark

Bulletin  
of the seismological station

## SCORESBY-SUND

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

Lithologic foundation: Gneiss.

No. 27. Jan.—Dec. 1953.

## Instruments:

Galitzin-Wilip seismographs.

## Constants:

Component	$l$	$A_1$	$T_1$	$\mu^2$	$T$	$k$
	cm	cm	sec		sec	
<i>N</i>	12.0	100	11.91	0	12-13	110
<i>E</i>	12.0	100	11.97	0	12-13	110
<i>Z</i>	14.9	100	10.02	0	9	90

Grenet vertical seismograph,  $T_1 = 1/4^*$ ,  $T = 1^*$ ,  $V_{\max} = \text{abt. } 30\,000$ .

Phases are denoted by the symbols used in the International Seismological Summary.

*i* and *e* refer to the Galitzin-instruments, *i* and *e* to the Grenet-instrument.The signs + or - after the time of a *P* phase mean that the initial motion is upwards or downwards respectively.In *P* ( $\pm a, \pm b, \pm c$ ) *a*, *b* and *c* are trace amplitudes in mm. of first swing on NS, EW and vertical component records respectively; + means that ground motion is directed to N, E or up, - that it is S, W or down. When a second set of amplitudes is given, it is those of the second swing. An *x* replaces a small amplitude that cannot be measured accurately.

\* affixed to time of phase indicates that the beginning is in a time-mark.

## Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S					
	1953		m s	m s	m s	m s	h m	°	
1	Jan. 2	3	e 19 34	e 27 32			38	58	Kamchatka.
2	2	11	e 35 41				63		Peru.
3	2	22	e 11 24						
4	3	11	e 03 51		e e 04 42	e 05 20			Near shock.
5	3	18					43		
6	5	5	e 02 30	e 10 31	14.0		21	58	Komandorski Islands region.
7	5	7	i i 58 03	i 65 47	e 58 59	i 59 36	74	56	i 65 <sup>m</sup> 56 <sup>s</sup> . Komandorski Islands region.
8	5	8	e 33 23						Following phases disturbed by previous shock. Repetition.
9	5	10	i 16 40+	i 24 49	e 18 53	i 20 31	32	60	i 25 <sup>m</sup> 15 <sup>s</sup> . Kurile Islands.
10	5	10	i 26 40						Later phases disturbed by previous shock. Kurile Islands.
11	5	10	i 46 09						
12	6	23					57		
13	7	0	e 08 35						Albania.
14	7	1	e 26 00				42		
15	7	5	e 58 40	i 66 31	i 66 50	68 30	76	57	Off east coast of Kamchatka.
16	7	12	e e 12 12				29		Costa Rica.
17	7	14			e 28 15	33.8	63		PS 37 <sup>m</sup> 53 <sup>s</sup> . iPPS 39 <sup>m</sup> 19 <sup>s</sup> . i 45 <sup>m</sup> 00 <sup>s</sup> .
18	9	16	e 53 49						New Britain.
19	10	10	e 11 30						Atlantic Ocean.
20	10	13	e 50 13						Aleutian Islands.
									Kamchatka region.
21	11	23	e 00 36	i 06 18	e 01 51	08 58	11.9	37	Yukon, Canada.
22	12	17	i e 33 43	i 41 52	e 37 53	i 42 22	51	60	SS 46 <sup>m</sup> .0. SSS 47 <sup>m</sup> .9. Deeper than
23	13	2					32		[normal. Kurile Islands.
24	14	9	e 49 34						Japan.
25	14	13	i 06 05						Kamchatka.
26	15	8	i 21 00						
27	15	12	e 17 17		e 27 53		47		Near Hawaii.
28	15	20					38		
29	17	17	e 39 52						Depth abt. 150 km. Kurile Islands.
30	18	18	i 17 51				39		Kamchatka.
31	19	5	i 08 22	i 17 21	i 17 36		28	68	Near southeast coast of Hokkaido, Japan.
32	20	17	i 47 16				84		Molucca Passage.
33	20	17	e 50 47						
34	20	18	e 03 19						
35	21	1	i 53 02				73		Kurile Islands.
36	25	9	e 02 38						Probably near shock.
37	25	9	e 05 11		e 06 18				" " "
38	25	17	e 02 15						" " "
39	26	5	e 12 28						Kamchatka.
40	27	3	e 22 50	e 30 37			43	56	Off east coast of Kamchatka.
41	27	3			e 43 42				New Britain.
42	27	4	e 16 18						Off Kamchatka.
43	30	4	e 50 48		e 51 19				
44	30	15	e 40 30						Kamchatka.

## Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S					
	1953		m s	m s	m s	m s	h m	°	
45	Jan. 30	22	e 05 36		e 16 03	17 03	45		19 <sup>m</sup> .2. e 23 <sup>m</sup> 37 <sup>s</sup> . SS 25 <sup>m</sup> .1. SSS 28 <sup>m</sup> .4. Depth abt. 100 km. Santa Cruz Islands.
46	31	22	i 05 08+						Mid Atlantic Ocean.
	Febr.								
47	1	11	e 01 02						Kurile Islands.
48	1	20	e 48 11						Aleutian Islands.
49	2	8	e 42 23						
50	2	9	e 40 13				62		Kurile Islands.
51	4	10	e 59 46			67.2	69		North Atlantic Ocean.
52	5	12	i 04 14						Fiji Islands region.
53	5	22	e 50 02				66		Crete.
54	6	5	e 43 20			57.3	63		Off Kamchatka.
55	6	12	i 39 35		i 39 40				
56	6	13	i 23 55+	i 32 50	33 06	37 26	44	67	i 41 <sup>m</sup> 06 <sup>s</sup> . Near southeast coast of Hokkaido, Japan.
57	7	18	i i 33 25	e 41 45	37 28	i 41 56	53	61	i 43 <sup>m</sup> 42 <sup>s</sup> . 48 <sup>m</sup> 45 <sup>s</sup> . Kurile Islands.
58	7	22	i 39 10+	e 45 36	e 41 05	49.0	53	43	Crete.
59	9	21	42.3						No time marks.
60	10	6	13.1						" " "
61	10	8	08.1						" " "
62	10	14	28.0						" " "
63	11	23					54		
64	12	1					45		
65	12	4					49		
66	12	8	i i 24 47	i 32 21	i 26 50	e 27 58	42	54	SS 35 <sup>m</sup> 59 <sup>s</sup> . Northern Iran.
67	12	8	i 36 43		38 41				Following phases disturbed by previous shock. Repetition.
68	14	8	i 51 09		i 52 53		65		Dodecanese Islands.
69	14	8	i 56 42						
70	14	22	i 01 12-	12 02	e 04 50	e 11 37	31	88	e 12 <sup>m</sup> 41 <sup>s</sup> . Deeper than normal. Mariana Islands.
71	14	22	i 22 14-						Deep focus. Ecuador.
72	15	3	e 48 50						
73	15	17	e 25 00						
74	15	22	e 10 56						
75	16	0	e 17 51						
76	16	1	e 09 36						Japan.
77	16	1	i 12 56						Nepal.
78	16	10	i 21 54						
79	18	0	e 19 39						Costa Rica.
80	19	2	e 57 21						
81	19	15		i 38 17	i 39 09	46.2			Mid Atlantic Ocean.
82	21	1	e 13 18						Off Kamchatka.
83	21	12	e 48 40						
84	22	2	e 23 25						Arctic Ocean.
85	22	8					05		

## Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S	m s	m s			
	1953		m s	m s	m s	m s	h m	°	
86	Febr.	20	i 21 43						Germany.
87	23	0	i 57 03-				74		Nepal.
88	23	3	e 51 32				70		Off east coast of Kamchatka.
89	25	18	e 08 21		e 08 41				
90	25	21	i 25 06-	i 32 09	32 18	i 34 18	39	49	iScS 34 <sup>m</sup> 54 <sup>s</sup> . Off south coast of Alaska Peninsula.
91	26	0	i 42 09	e 50 03	i 42 43	i 50 58	58	57	Off south coast of Kamchatka.
92	26	0	i 46 47						Kamchatka.
93	26	7	i 47 51						Loyalty Islands.
94	26	10	i 32 26						SKKS 09 <sup>m</sup> 59 <sup>s</sup> . SKSP 12 <sup>m</sup> 42 <sup>s</sup> . iPS 13 <sup>m</sup> 04 <sup>s</sup> . PPS 14 <sup>m</sup> 18 <sup>s</sup> . iSS 18 <sup>m</sup> 19 <sup>s</sup> . iPSS 19 <sup>m</sup> 09 <sup>s</sup> . SSS 23 <sup>m</sup> 09 <sup>s</sup> . Santa Cruz Islands region.
95	26	12	e 01 21		e 02 44	i 08 24	39		Haiti.
96	26	16	e 19.6				39		
97	26	19	e 53 28						
98	27	13	e 29.0						
99	27	14	e 11 43		i 29 30				
100	28	2	e 45 43						
101	28	5					01		Arctic Ocean.
102	28	5	e 52 36				27		
103	28	22							
	March								
104	1	1	e 37 03		e 37 41		04		
105	1	18							
106	2	15	e 09 57		i 10 27				
107	2	21	e 06 27						
108	3	11	e 46 08				1.5		Strong microseisms. Loyalty Islands.
109	3	11	e 59 05						Kurile Islands.
110	3	23	e 04 15						
111	4	1	e 10 50		e 14 10	e 15 07			Depth abt. 600 km. Argentina. South Atlantic Ocean.
112	5	19	i 12 47+						Foreshock to no. 114.
113	5	19	i 57 35						
114	5	21	i 11 18+	i 19 15	i 15 12	i 19 53	29	58	i 21 <sup>m</sup> 27 <sup>s</sup> . 23 <sup>m</sup> 32 <sup>s</sup> . 25 <sup>m</sup> 12 <sup>s</sup> . Near southern coast of Kamchatka.
115	5	21	i 32 00+						Kamchatka.
116	6	22	i 10 55						Riu-Kiu Islands region.
117	8	12	e 36 52						Kamchatka.
118	9	10	e 22 43		i 33 07	e 34 33	60		SS 39 <sup>m</sup> .4. New Britain region.
119	10	7					07		
120	10	13	e 38 36						Near shock.
121	10	13	e 57 23						* *
122	10	14	e 02 37						* *
123	10	14	e 15 15						* *
124	10	14	e 45 27						
125	10	20	e 17 07		i 46 05	i 46 17			e 46 <sup>m</sup> 30 <sup>s</sup> . Near shock.
126	10	23					03		

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No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S	m s	m s			
	1953		m s	m s	m s	m s	h m	°	
127	March	11	0		e 21 07				Near shock.
128	11	0	e 28 44		29 06	29 36			" "
129	11	9	i 34 18						
130	11	11	e 00 17						
131	11	16	e 36 54		i 57 48				Near shock.
132	13	5	e 33 56						South of Crete.
133	14	17	e 14 35		e 18 42	e 25 01	50		e 28 <sup>m</sup> 02 <sup>s</sup> . SS 33 <sup>m</sup> 24 <sup>s</sup> . Philippine Islands.
134	15	14	e 24 05						South of Crete.
135	16	5					59		
136	16	8	e 41 35						New Hebrides.
137	16	11	e 24 19						
138	17	6	e 43 01				65		Kamchatka.
139	17	12	i 43 20						Philippine Islands.
140	17	13	i 14 40	i 22 49	e 24 25		35	60	Kurile Islands.
141	18	19	e 13 47	i 19 55	i 13 51			40	Turkey.
142	18	21	e 25 41						Repetition.
143	19	3	e 58 34						
144	19	8	i 37 55	i 45 54	i 38 26	i 38 43			esP 39 <sup>m</sup> 05 <sup>s</sup> . PP 40 <sup>m</sup> 05 <sup>s</sup> . ipPP 40 <sup>m</sup> 50 <sup>s</sup> . iPPP 41 <sup>m</sup> 55 <sup>s</sup> . i 46 <sup>m</sup> 06 <sup>s</sup> . iSS 49 <sup>m</sup> 56 <sup>s</sup> . [Depth abt. 200 km. Windward Island. Riu-Kiu Islands. Kurile Islands. Depth abt. 600 km. Fiji Islands region. Turkey.
145	19	9	e 04 46		i 07 13				
146	19	10	e 27 37						
147	19	12	e 23 56						
148	19	19			e 13 57	i 14 18			
149	19	21	e 21 30						
150	20	1					01		
151	23	6	e 21 52						
152	23	11	e 39 29						
153	23	12	i 45 49				64		Aleutian Islands.
154	24	21	e 25 52						Turkey.
155	25	6	i 00 57				19		Aleutian Islands.
156	26	2	i 19 27						Kamchatka.
157	26	5	i 12 52						" "
158	31	1	i 02 58						Albania.
159	31	11	e 40.3						Crete.
160	31	15	e 13 49						
	April								
161	1	1	e 55.2						
162	1	11	e 01 56	e 12 01	e 12 11		27	80	Near coast of Equador.
163	1	11	e 33 39	e 43 43			58	80	" " " "
164	1	18	e 21 19						
165	1	18	i 23 34						
166	1	23					17		
167	2	4	14.8		e 15 04	e 25 20	50		e 25 <sup>m</sup> .4. New Britain.
168	3	18	e 03 16						Japan.
169	4	6	i 03 46	e 13 17	i 03 57	18.2	30	74	Off east coast of Honshu, Japan.
170	5	3	e 29 02						Albania.

## Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S					
	1953								
	April								
171	5	3	e 54 11		e 54 41	i 55 01		Near shock.	
172	5	9	e 13 44					Kermadec Islands.	
173	5	10	e 28 02		43.9		57	Off east coast of Formosa.	
174	5	14	i 42 31+					Peru.	
175	6	0	e 51 08		i 54 58	i 55 55	92	e 63 <sup>m</sup> 25 <sup>s</sup> . iPS 65 <sup>m</sup> 30 <sup>s</sup> . 65 <sup>m</sup> 50 <sup>s</sup> . i 71 <sup>m</sup> 44 <sup>s</sup> .	
176	6	1	e 05 39		i 05 45			[Banda Sea.	
177	6	4	i 03 03+		e 08 49	i 13 27	36	SS 20 <sup>m</sup> .9. Philippine Islands.	
178	6	12	i e 24 35+	e 32 38	i 32 50	e 34 40	44	Near east coast of Kamchatka.	
179	8	0	12.5		e 16 44	e 22 52	47	Philippine Islands.	
180	8	2	e 42 25						
181	8	5	e 23 30					Kamchatka.	
182	10	18	e 49 28						
183	12	22	i 40 09+					Kamchatka.	
184	13	12	58.7					Greece.	
185	14	13	i i 41 00	i 50 41	i 43 05	i 44 04	85	PP 44 <sup>m</sup> 41 <sup>s</sup> . 47 <sup>m</sup> 08 <sup>s</sup> . iSKS 50 <sup>m</sup> 25 <sup>s</sup> . iSP 51 <sup>m</sup> 39 <sup>s</sup> . esS 54 <sup>m</sup> 24 <sup>s</sup> . isSP 55 <sup>m</sup> 19 <sup>s</sup> . SS [56 <sup>m</sup> 27 <sup>s</sup> . sSS 59 <sup>m</sup> 19 <sup>s</sup> . Depth abt. [650 km. Western Brazil.	
186	14	13	e 59 01						
187	14	14	e 07 02						
188	15	1	i 27 11	e 35 22			47	60 Kurile Islands.	
189	15	18	i 16 52					Kamchatka.	
190	16	9	e 05 50					Kurile Islands.	
191	17	0	i 15 22		e 25 50	e 26 40	43	SS 31 <sup>m</sup> .0. Northern Peru.	
192	17	11			39.6	45.8	64	New Britain.	
193	18	3	e e 29 17		57.3		1.4		
194	18	23	e 37 34	i 47 40	i 52 51		63	80 Off Mexico.	
195	19	16	i 06 05				.7	Japan.	
196	19	22	57.7		69.7		77	Aleutian Islands.	
197	20	12					05		
198	21	0	i 55 46		i e 55 48			Possibly breaking up of the Ice.	
199	21	0					46		
200	23	4	e 02 11				31	China.	
201	23	4	i 04 49					Repetition.	
202	23	16	e 39 27		e 43 02	i 44 03	83	iPS 53 <sup>m</sup> 52 <sup>s</sup> . iSS 60 <sup>m</sup> 17 <sup>s</sup> . New Britain region.	
203	24	2	e 12 08	i 13 56	i e 12 13	e 14 02	9	Off west coast of Spitzbergen.	
204	24	23	e 48 10					China.	
205	25	16	e 33 15		i 33 21		.9	"	
206	26	12					52		
207	27	13	e 04 49						
208	29	3	e 50 10		i e 51 27	e 57 05	89	61 <sup>m</sup> 33 <sup>s</sup> . Solomon Islands.	
209	29	20	i 31 53	e 40 33	e 32 15		54	67 Hokkaido, Japan.	
210	29	22	i 03 37					Kurile Islands.	
211	30	0	e 42.0				44	Near shock.	
212	30	1	e 19 13					Kamchatka.	
213	30	6	i 45 54+		i i 48 03	i 49 12	87	e 58 <sup>m</sup> 11 <sup>s</sup> . i 62 <sup>m</sup> 21 <sup>s</sup> . SS 66 <sup>m</sup> .2. SSS 70 <sup>m</sup> .2. Loyalty Islands.	
214	30	15	i 53 44		63.7		69	Caucasia.	

## Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S					
	1953								
	May								
215	1	21					53		
216	2	5	i 49 34				62	Western Turkey.	
217	2	18	e 45 19			47 02	45.7	"	
218	2	18	e 48 07	e 56 08				58 Off Kamchatka.	
219	4	0	e 09 03				39	China.	
220	4	4		21.8	e 23 52		34	Kamchatka.	
221	4	11	i e 38 54-	e 46 48	e 47 02	e 49 01	56	57 Off east coast of Kamchatka.	
222	4	15	i 39 30+	e 50 21	i 43 50	i 53 18		isS 54 <sup>m</sup> 13 <sup>s</sup> . 55 <sup>m</sup> .7. 61 <sup>m</sup> .1. Depth abt. 600 km. Argentina.	
223	4	23	i 37 03-					Kurile Islands.	
224	6	17	e e 31 32		e 31 57	e e 34 48	72	35 <sup>m</sup> 22 <sup>s</sup> . iPP 36 <sup>m</sup> 10 <sup>s</sup> . iPPP 38 <sup>m</sup> 25 <sup>s</sup> .	
225	7	11					51	[38 <sup>m</sup> 38 <sup>s</sup> . iSKS 42 <sup>m</sup> 00 <sup>s</sup> . i 43 <sup>m</sup> 58 <sup>s</sup> . ipS	
226	7	16					03	[44 <sup>m</sup> 15 <sup>s</sup> . iPS 45 <sup>m</sup> 51 <sup>s</sup> . iPPS 46 <sup>m</sup> 53 <sup>s</sup> .	
227	8	4					10	[iSS 51 <sup>m</sup> 45 <sup>s</sup> . iSSS 56 <sup>m</sup> 08 <sup>s</sup> . Depth abt. [100 km. Chile.	
228	8	5			17.3				
229	9	12					32		
230	10	5	e 29 49				72	New Hebrides.	
231	11	10	i i 35 52		e i 38 05	i 39 19		i 39 <sup>m</sup> 27 <sup>s</sup> . ePPP 41 <sup>m</sup> 08 <sup>s</sup> . SKS 43 <sup>m</sup> .1. SKKS 45 <sup>m</sup> 11 <sup>s</sup> . SS 55 <sup>m</sup> .5. SSS 60 <sup>m</sup> .9. [Loyalty Islands.	
232	12	4	e 46 53				45	ScS 35 <sup>m</sup> .6. Depth abt. 100 km. Aleutian Islands.	
233	13	4	i e 26 05+	e 34 01	e 26 14				
234	13	12	e 12 17		e 15 57	e 24 56	62	SS 32 <sup>m</sup> 56 <sup>s</sup> . 35 <sup>m</sup> 06 <sup>s</sup> . Kermadec Islands.	
235	14	7	12.6						
236	14	7		e 57 48	61.6		66	Off coast of Vancouver.	
237	14	18		e 43 53	47.7		52	"	
238	15	8	i 48 10						
239	15	10					07		
240	16	0	35.7						
241	17	13			40.8	45.7	1.2	SSS 49 <sup>m</sup> .7. Sumatra.	
242	17	17	e 33 26				55	Off Kamchatka.	
243	17	22	e 23 34		e 24 04	e 33 03		Depth abt. 100 km. Japan.	
244	18	8	e e 20 19	e 26 54	i 20 27	i 27 02	32.6	45 e 30 <sup>m</sup> 19 <sup>s</sup> . Mid Atlantic Ocean.	
245	18	8			e 34 06			Masked by previous shock. Sumatra.	
246	18	9	e 36 44						
247	19	3	i i 20 06+	i 29 10	e 23 20	i 29 21	38	59 iScS 31 <sup>m</sup> 00 <sup>s</sup> . SS 33 <sup>m</sup> .0. SSS 35 <sup>m</sup> .0. Off south coast og Kamchatka.	
248	19	6	e 02 32					Kamchatka.	
249	19	16			e 14 10	15 13	42	SS 22 <sup>m</sup> .1. Sumatra.	
250	20	8	e 05 00		e 27 25	33.1		South Pacific Ocean.	
251	20	11			e 02 15	04 30	35	SKS 08 <sup>m</sup> 15 <sup>s</sup> . e 12 <sup>m</sup> 10 <sup>s</sup> . SS 17 <sup>m</sup> .9. Depth abt. 200 km. Celebes region.	
252	20	23	e 23 11	e 30 24	34.3		39	50 British Columbia.	
253	21	2			21.6		33	Guatemala.	
254	21	10					44		
255	21	12		e 45 47	e 49 20		54	British Columbia.	
256	22	20			e 34 20			Depth abt. 600 km. Fiji Islands region.	

## Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S	m s	m s			
257	1953 May 24	1	e 38 44		40.7	e 42 16	78		48 <sup>m</sup> 43 <sup>s</sup> . 50 <sup>m</sup> 55 <sup>s</sup> . SS 57 <sup>m</sup> 53 <sup>s</sup> . Sandwich Islands region.
258	25	2	e 41 07				57		Kurile Islands.
259	25	12			e 56 33				Sumatra.
260	25	17	e e 50 29	e 58 35	58 40	60 55	69	59	Off south coast of Kamchatka.
261	26	1	i i 54 03	i 62 56	i 63 20	63 56	73	67	64 <sup>m</sup> 10 <sup>s</sup> . South of Hokkaido, Japan.
262	26	22			e 32.7	i 39 19			Near shock.
263	28	3	e 41 15	e 49 36*			64	62	Kurile Islands region.
264	31	0	e 38.3						
265	31	5	e 18 48		e 19 52	e 21 56	54		e 23 <sup>m</sup> 09 <sup>s</sup> . eSKS 25 <sup>m</sup> 29 <sup>s</sup> . ePS 29 <sup>m</sup> 19 <sup>s</sup> . 30 <sup>m</sup> 31 <sup>s</sup> . eSS 35 <sup>m</sup> 14 <sup>s</sup> . 36 <sup>m</sup> 10 <sup>s</sup> . SSS [39 <sup>m</sup> .0. Depth abt. 100 km. Flores Sea.
266	31	15	e 46 12						
267	31	19			e 57 06				
268	31	20	e e 08 36	i 16 40	e 10 43	e 12 02	27.2	59	i 13 <sup>m</sup> 25 <sup>s</sup> . i 14 <sup>m</sup> 48 <sup>s</sup> . i <sub>E</sub> 16 <sup>m</sup> 51 <sup>s</sup> . i <sub>N</sub> [17 <sup>m</sup> 28 <sup>s</sup> . iScS 18 <sup>m</sup> 25 <sup>s</sup> . iSS 20 <sup>m</sup> 10 <sup>s</sup> . [SSS 22 <sup>m</sup> 40 <sup>s</sup> . Near north coast of [Dominican Republic.
269	31	20	i 38 26						
270	June 1	20	i 50 27						
271	2	22					44		
272	3	3					03		
273	3	16					26		
274	3	18					22		
275	6	2			e 23 33		.0		
276	6	6	e e 10 06	e 13 21			14.5	18	North Atlantic Ocean.
277	6	12	e 10 02	e 13 23			14.7	18	
278	6	17					37		
279	7	12	e 33 53	i 41 57	i 37 42	i 42 09	52.7	59	eScS 43 <sup>m</sup> 52 <sup>s</sup> . SSS 48 <sup>m</sup> .1. Near north coast of Dominican Republic.
280	8	3	e 07 24						Atlantic Ocean.
281	8	11	e i 50 19	i 58 16	i 58 31	e 60 08	68	57	i 60 <sup>m</sup> 26 <sup>s</sup> . SS 61 <sup>m</sup> .7. SSS 64 <sup>m</sup> .7. Depth abt. 60 km. Near east coast of Kamchatka.
282	9	1	e i 48 50	e 56 46	i 51 16	e 52 21	66	57	i 56 <sup>m</sup> 56 <sup>s</sup> . eScS 58 <sup>m</sup> 41 <sup>s</sup> . Near east coast Kamchatka.
283	9	16	i 36 01+				50		Turkey.
284	10	18			e 43 01	e 52 27	79		Molucca Islands.
285	11	13	e 42 30	e 42 57	i 43 17				Near shock.
286	11	14					30		
287	13	6					33		
288	13	17			e e 27 06				
289	13	18	i 46 34		48 10	55.9	59		Gulf of Corinth.
290	14	4					47		
291	15	17	i i 56 03+	i 63 06	e 57 47	i 57 58	70.5	49	ePPP 58 <sup>m</sup> 41 <sup>s</sup> . eScS 65 <sup>m</sup> 56 <sup>s</sup> . eSS 66 <sup>m</sup> 13 <sup>s</sup> . iSSS 66 <sup>m</sup> 53 <sup>s</sup> . South of Kodiak Island.
292	16	10	e e 05 09	i 15 06	i 05 18		32	78	South of Honshu, Japan.
293	16	16	e 21 08		i i 24 25	30.3			36 <sup>m</sup> 27 <sup>s</sup> . eSS 40 <sup>m</sup> 58 <sup>s</sup> . e 43 <sup>m</sup> 23 <sup>s</sup> . Depth abt. 100 km. Tonga Islands region.

## Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S	m s	m s			
294	1953 June 16	19	i i 57 25		i 57 40	i 57 49	72		Deeper than normal. Near south coast [of Alaska.
295	17	2					03		
296	17	14		e 32 50			58		Near coast of southern Peru.
297	18	5	e 51 24	e 57 25	e 52 47		66	40	Turkey.
									No records 18 <sup>00</sup> h to 18 <sup>00</sup> h.
298	19	23					09		
299	22	0			e 24 58	30.4	.8		Indian Ocean.
300	23	14	e e 03 30	i 11 30	i 07 23	i 11 53	18.5	58	Near south coast of Kamchatka.
301	24	21	i 29 14						Kurile Islands.
302	25	10	e 58 49		e 62 39	e 63 31			e 65 <sup>m</sup> 40 <sup>s</sup> . Flores Island.
303	25	10	e 59 51		e 64 40	e 66 33		97	PS 74 <sup>m</sup> 06 <sup>s</sup> . SSS 84 <sup>m</sup> .3. Flores Island.
304	25	21	i 59 33+						Depth abt. 100 km. Trinidad.
305	26	6	e 01 33		e 02 34	i 08 25	30.0		iSKKS 09 <sup>m</sup> 37 <sup>s</sup> . iPS 12 <sup>m</sup> 09 <sup>s</sup> . e 12 <sup>m</sup> 37 <sup>s</sup> . e 13 <sup>m</sup> 22 <sup>s</sup> . eSS 17 <sup>m</sup> 25 <sup>s</sup> . eSSS 22 <sup>m</sup> 40 <sup>s</sup> . Flores Island.
306	26	7	e 53 15						Depth abt. 550 km. South of Fiji [Islands.
307	26	9	e 23 13		i 23 24				
308	27	8	i 01 17		i e 03 52				Depth abt. 550 km. Fiji Islands region.
309	27	10			e 17.0				Solomon Islands.
310	28	5	e e 49 07	i 59 04	e 59 48		44	78	South of Honshu, Japan.
311	29	3			48.9		58		Off coast of Panama.
312	29	8			e <sub>N</sub> 27 42	e <sub>E</sub> 27 54			e 28 <sup>m</sup> 37 <sup>s</sup> . Perhaps L-waves from near [shock.
313	29	22	e 25.8						Tibet-Nepal-India border.
314	29	23	e 37 46						Peru.
315	30	1	e 28 12						Mariana Islands.
316	30	3	e 14 54						Near east coast of Kamchatka.
317	30	7	i 47 28+		i 48 24		66		Peru.
318	30	13	e 35 58						
319	30	17					25		
320	30	22	e 52.5	e 60 30	62.6		67		Southeast coast of Kamchatka.
321	July 1	3	i i 09 33	i 17 38	17 59	19 44		59	Slightly deeper than normal. South of Kamchatka.
322	2	7	e i 15 37		e i 16 40	i 17 39			18 <sup>m</sup> 54 <sup>s</sup> . i e 33 <sup>m</sup> 14 <sup>s</sup> . Depth about 200 km. New Hebrides.
323	2	8	e 59 22						Japan.
324	2	13		e 55 44	e 57 02				Near coast of southern Peru.
325	3	5	i 43 31	e 53 39				80	Japan.
326	3	16	e 39 57						
327	3	18	e 48 47						Sandwich Islands.
328	7	4			e 25 11	31 24			34 <sup>m</sup> 26 <sup>s</sup> . 35 <sup>m</sup> .6. 37 <sup>m</sup> .8. Sumatra.
329	7	13	e 54 31						Kurile Islands.
330	7	17	e 40 23						Japan.
331	9	19		e 19 48			29		Sinkiang, China.
332	9	21	i 31 42	e 37 59	33 03		43	42	North Atlantic Ocean.
333	10	15		e 35 34	e 28 54	30 40			iSKS 33 <sup>m</sup> 55 <sup>s</sup> . i 34 <sup>m</sup> 51 <sup>s</sup> . 37 <sup>m</sup> 10 <sup>s</sup> . 38 <sup>m</sup> 32 <sup>s</sup> . 42 <sup>m</sup> .8. Depth abt. 600 km. Java Sea.

## Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S					
334	1953 July 12	7	<i>m s</i>	<i>m s</i>	<i>m s</i>	<i>m s</i>	<i>h m</i>	°	<i>iSKS</i> 08 <sup>m</sup> 26 <sup>s</sup> . <i>SKKS</i> 09 <sup>m</sup> 20 <sup>s</sup> . <i>iPS</i> 11 <sup>m</sup> 46 <sup>s</sup> . 13 <sup>m</sup> 21 <sup>s</sup> . <i>SS</i> 17 <sup>m</sup> .8. No Gal. Z-record. New Guinea. Very short periodic.
335	13	13	<i>e</i> 58 31		<i>i</i> 58 40				
336	15	10	<i>i</i> 21 28						
337	17	20			<i>e</i> 16 38				
338	20	8	<i>e</i> 27 14		<i>i e</i> 29 28	<i>i e</i> 30 35	1.1		30 <sup>m</sup> 49 <sup>s</sup> . 31 <sup>m</sup> 10 <sup>s</sup> . <i>PPP</i> 32 <sup>m</sup> 36 <sup>s</sup> . 36 <sup>m</sup> 23 <sup>s</sup> . 37 <sup>m</sup> 17 <sup>s</sup> . <i>PS</i> 39 <sup>m</sup> 44 <sup>s</sup> . 41 <sup>m</sup> 36 <sup>s</sup> . 42 <sup>m</sup> 55 <sup>s</sup> . <i>iSS</i> 46 <sup>m</sup> 57 <sup>s</sup> . <i>sSS</i> 47 <sup>m</sup> 34 <sup>s</sup> . No Gal. Z-record. Depth abt. 100 km. Tonga [Islands region. No Gal. Z-record. Riu-Kiu Islands.
339	21	2	<i>e</i> 09 19						
340	21	17	<i>i e</i> 34 49	<i>e</i> 44 55				80	
341	22	5	<i>i e</i> 21 09	<i>i</i> 29 13	<i>e</i> 23 13	<i>i</i> 25 03	38		<i>i</i> 29 <sup>m</sup> 36 <sup>s</sup> . <i>iScS</i> 31 <sup>m</sup> 22 <sup>s</sup> . <i>SS</i> 33 <sup>m</sup> 14 <sup>s</sup> . Deeper than normal. No Gal. Z-record. [Kamchatka.
342	23	18					.9		
343	26	17	<i>e e</i> 06 04	<i>i</i> 16 43	09 08	<i>i</i> 16 12			<i>iPS</i> 17 <sup>m</sup> 45 <sup>s</sup> . <i>SS</i> 22 <sup>m</sup> 48 <sup>s</sup> . No Gal. Z-record. Depth abt. 200 km. Mariana Islands. No Gal. Z-record. Depth abt. 550 km. Fiji Islands region. Mid Atlantic Ocean. 40 <sup>m</sup> .8. No Gal. Z-record. Guatemala.
344	28	7	<i>i</i> 57 48		<i>e</i> 61 13				
345	29	13	<i>e</i> 44 13	<i>e</i> 53 51			67	75	
346	29	18	<i>e</i> 26 53	<i>e</i> 36.1	29 25	31 10	50		
347	Aug. 3	0			41.8	42 39	1.1		
348	6	21					14		
349	9	7	<i>e</i> 48 38	<i>e</i> 54 39	<i>e</i> 50 13	<i>e</i> 57 47	61	39	<i>e</i> 58 <sup>m</sup> 10 <sup>s</sup> . Ionian Islands. Ionian Islands. No H-records.
350	11	3	<i>e</i> 39 <sup>s</sup> 55 <sup>o</sup>						
351	12	9	<i>i i</i> 31 26—	<i>i</i> 37 31	<i>e</i> 32 54	<i>e</i> 40 07	43.2	40	» »
352	12	12	<i>e e</i> 12 57*	<i>e</i> 19 00	<i>e</i> 14 21		25	40	» »
353	12	14		<i>e</i> 22 22	<i>e</i> 17 41		29		» »
354	16	3	<i>i</i> 22 14—	<i>e</i> 32 28	<i>i</i> 22 54—				Depth ab . 150 km. Peru-Brazil border.
355	16	23			24.1		26		
356	17	4					.3		
357	27	21					46		
358	28	0					33		
359	29	2			<i>e</i> 18 53	<i>e</i> 19 54	31		<i>e</i> 26 <sup>m</sup> 37 <sup>s</sup> . Algeria.
360	29	14		<i>e</i> 22 17	17 35		28.3		
361	31	5					42		
362	31	8	<i>i</i> 02 23	<i>i</i> 10 08			19		Deeper than normal. Near east coast [of Kamchatka.
363	31	17					38		
364	Sept. 2	0		<i>e</i> 51 04	<i>e</i> 54.3		61		Caucasia.
365	4	7	<i>e i</i> 33 06	<i>i</i> 41 11	<i>e</i> 33 56	<i>e</i> 35 15	52.5	60	<i>iPPP</i> 36 <sup>m</sup> 46 <sup>s</sup> . <i>i</i> 41 <sup>m</sup> 35 <sup>s</sup> . <i>iScS</i> 43 <sup>m</sup> 19 <sup>s</sup> . [ <i>eSS</i> 45 <sup>m</sup> 11 <sup>s</sup> . <i>eSSS</i> 47 <sup>m</sup> 46 <sup>s</sup> . Deeper [than normal. Kurile Islands.
366	4	15					05		
367	5	14					43		

## Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S					
368	1953 Sept. 5	19					<i>h m</i>	°	
369	7	4	<i>e</i> 06 39	<i>e</i> 12 53	<i>e</i> 08 21	<i>e</i> 15 05	18.2	41	<i>eSSS</i> 15 <sup>m</sup> 32 <sup>s</sup> . <i>eScS</i> 17 <sup>m</sup> 02. Turkey. Near west coast of Cyprus.
370	10	4	<i>i</i> 14 24	<i>e</i> 21 12	<i>e</i> 16 11		25	45	
371	14	0			<i>e</i> 47 37	<i>i</i> 50 47	84		<i>ePS</i> 57 <sup>m</sup> 34 <sup>s</sup> . <i>eSS</i> 64 <sup>m</sup> .2. 70 <sup>m</sup> .1. Fiji Islands. Indian Ocean. Greece.
372	14	11			<i>e</i> 50 45	<i>e</i> 51 07	73		
373	14	15		<i>e</i> 09 47			17		
374	16	2					50		
375	17	21			<i>e</i> 33 11	<i>e</i> 36 29	72		<i>e</i> 42 <sup>m</sup> 44 <sup>s</sup> . <i>SS</i> 49 <sup>m</sup> .9. Depth abt. 100 km. Tonga Islands. <i>i</i> 33 <sup>m</sup> 07 <sup>s</sup> . <i>eScS</i> 34 <sup>m</sup> 12 <sup>s</sup> . <i>i</i> 34 <sup>m</sup> 42 <sup>s</sup> . <i>eSS</i> 37 <sup>m</sup> 02 <sup>s</sup> . <i>iSSS</i> 39 <sup>m</sup> 22 <sup>s</sup> . Kurile Islands. <i>ee</i> 59 <sup>m</sup> 07 <sup>s</sup> . <i>i</i> 71 <sup>m</sup> 57 <sup>s</sup> . <i>i</i> 74 <sup>m</sup> 30 <sup>s</sup> . <i>e</i> 79 <sup>m</sup> .1. Strong microseisms. Depth abt. 300 km. Off New Zealand. Strong microseisms. Off Mexico.
376	23	2	<i>e i</i> 24 36	<i>i</i> 32 42	<i>e</i> 25 35	<i>i</i> 28 38		60	
377	29	1	<i>e i</i> 55 43		<i>i</i> 57 05	<i>i</i> 57 38			
378	30	23		<i>i</i> 24 17	<i>i</i> 28 37	<i>i</i> 31 51	36		
379	Oct. 5	4	<i>i</i> 41 21				59		Strong microseisms. Near east coast of Kamchatka.
380	6	22			<i>e</i> 09 36	<i>e</i> 13 32	32		<i>e</i> 16 <sup>m</sup> 42 <sup>s</sup> . Strong microseisms. New Britain region.
381	8	19					48		Strong microseisms. Off west coast of Greece.
382	9	1	<i>e</i> 45 38				55		
383	10	21	<i>e</i> 36 45				37	60	Masked by microseisms. Kurile Islands region. Tibet.
384	11	13	<i>e</i> 18 42	<i>e</i> 26 51	33.3		42		
385	11	17			34.2		25		
386	13	9							
387	14	14	<i>i e</i> 57 58						Depth abt. 100 km. Near east coast of Hokkaido, Japan. Mexico. Off Kamchatka.
388	16	10	<i>e</i> 04 26				31		
389	17	21			31.1		37		
390	21	11					55		
391	21	18	<i>i</i> 47 24	<i>e</i> 53 35	<i>i</i> 47 31		60.3	40	Ionian Islands. Near shock?
392	23	13	<i>e</i> 00 10		<i>i</i> 00 14				» »
393	24	14	<i>e</i> 46 32						L from near shock?
394	26	13			<i>e</i> 58 41				Strong microseisms. Japan.
395	27	3	<i>e</i> 51 39						
396	Nov. 1	21	<i>i</i> 06 04						Kurile Islands region.
397	4	4	<i>e</i> 08 08		12 00	14 48	47		26 <sup>m</sup> .5. Masked by microseisms. New Hebrides. Depth abt. 650 km. Off east coast of [Korea. Depth abt. 200 km. Hindu Kush.
398	4	6	<i>e</i> 15 22						
399	4	13							
400	5	8	<i>e</i> 31 03						

## Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S					
			m s	m s	m s	m s	h m	°	
401	1953 Nov. 7	14					.0		
402	8	6	e 26 59	i e 27 33	i 27 07			3	Jan Mayen region.
403	8	6	i 37 32	i i 38 02	e 37 36	i 37 44		3	" "
404	8	6	e i 49 35		e 49 39				Strong microseisms. Jan Mayen region.
405	8	7	e 08 46						Strong microseisms. Jan Mayen region.
406	9	17	i 35 29	e 43 27	i 43 52	i 45 44	55	58	Deeper than normal. Near east coast of Kamchatka.
407	10	23	i 50 20	e 58 23			1.1	59	Deeper than normal. Off south coast of [Kamchatka.
408	13	12					15		
409	13	16	e 30 31		e 41 33	48.7	64		Near west coast of Sumatra.
410	13	19			44 22	47.5			SS 52 <sup>m</sup> .9. New Hebrides.
411	14	20		i 21 24	e 21 37	e 23 16	32		Off southeast coast of Kamchatka.
412	17	13	i 41 13		e 43 44				Strong microseisms. Off Guatemala.
413	23	5	i 57 53						Sinkiang Province, China.
414	25	8			e 33 42	e 35 06			e 37 <sup>m</sup> 36 <sup>s</sup> . Seismic?
415	25	17	e 55 03						Fiji Islands region.
416	25	18	i i 00 34	i 10 11	i 03 23			74	Off south coast of Honshu, Japan.
417	26	0	e i 15 14	i 24 57	i 25 42	29.3	40	75	SSS 32 <sup>m</sup> .8. Strong microseisms. Repetition.
418	26	1	e 59 12	e 68 56	i 69 11			76	Strong microseisms. Repetition.
419	26	8	i 25 58	e 35 44	e 35 58	40.0	51	76	eSSS 43 <sup>m</sup> 52 <sup>s</sup> . Strong microseisms. Repetition.
420	26	8	e 31 32						Strong microseisms. Repetition.
421	27	11	e 41 46						" " "
422	27	18	e 43 58						" " "
423	28	18	e 59 36		e 59 54				Near shock.
424	28	20	e 25 06						Off west coast of Greece.
425	29	0	e 45 17					66	Sinkiang Province, China.
426	30	6	e 09 03						" " "
427	30	13	e 28 28						Near west coast of Greece.
428	30	13	e 55 12						Honshu, Japan.
429	30	18	e 00 03						" " "
430	Dec. 1	4	i 24 53		e 25 32				Depth abt. 100 km. Aleutian Islands.
431	1	5	i i 20 26+	e 30 00	e 21 24	e 23 30			Masked by microseisms. Depth abt. [200 km. Riu-Kiu Islands.
432	1	16	e 24 12						Honshu, Japan.
433	1	16	i 30 04						" " "
434	1	21			e 43 29				" " "
435	2	4			e e 44 14	i 53 47	79		iPPS 54 <sup>m</sup> 51 <sup>s</sup> . iSS 59 <sup>m</sup> 56 <sup>s</sup> . Masked by microseisms. Northern New Guinea.
436	2	9	e 59 03						Honshu, Japan.
437	2	10	e 42 26						" " "
438	3	15	i 04 58					26	Masked by microseisms. Tibet.
439	4	8	e 02 36					22	Sinkiang Province, China.
440	4	8	e 36 16						Honshu, Japan.
441	4	15	e e 03 40	i 10 52	e 05 38	e 13 33	19	50	eSS 14 <sup>m</sup> 03 <sup>s</sup> . Off Vancouver Island.
442	4	18	e 28 46		e 29 00				" " "

## Scoresby-Sund

No.	Date	Hour	Forerunners				L	△	Remarks
			P or PKP	S					
			m s	m s	m s	m s	h m	°	
443	1953 Dec. 5	9	i 53 02	e 62 45	i 63 00		1.4	76	Honshu, Japan.
444	5	16	e 01 06						" " "
445	5	17	e 57 47		e 58 42				Honshu, Japan.
446	5	18	e 51 08						i 30 <sup>m</sup> 05 <sup>s</sup> . ipS 30 <sup>m</sup> 52 <sup>s</sup> . isS 31 <sup>m</sup> 16 <sup>s</sup> .
447	7	2	e 19 06	i 30 26	e 24 46	i 29 40			i 36 <sup>m</sup> 06 <sup>s</sup> . i 36 <sup>m</sup> 26 <sup>s</sup> . Depth abt. 100 km. Northern Chile.
448	7	14	e 22 45	e 31 56			48	70	Near Honshu, Japan.
449	8	2	e 23 03	e 33 06			.9	79	Bonin Islands region.
450	10	5	e 05 55		e 06 06	e 06 51			" " "
451	11	0	e 23 12		e 23 44				" " "
452	11	1	e 13 00		e 13 12				" " "
453	20	21	e 31 55		i 32 07			59	Honshu, Japan.
454	21	17	e 47 15						Near south coast of Hokkaido, Japan.
455	24	23	e 31 04					51	Strong microseisms. Near east coast of Kamchatka.
456	25	2	e i 01 21	i 09 21	i 01 23		18	58	Masked by strong microseisms. Near east coast of Kamchatka.
457	25	16	e 24 55						Honshu, Japan.
458	28	2	i 46 15					61	Near west coast of Greece.
459	28	7	e 20 12		e 20 46				" " "

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