

No. 64

1954

Geodætisk Institut

Proviantgården, Copenhagen, Denmark

Bulletin

of the seismological station

KØBENHAVN

$\varphi = 55^{\circ}41' N.$ $\lambda = 12^{\circ}26' E.$ $h = 13$ m.

Lithologic foundation: chalk

No. 64. Jan.—Dec. 1954.

Instruments:

Galitzin-Wilip seismographs.

Constants:

Component	l	A_1	T_1	μ^2	T	k
	cm	cm	sec		sec	
N	12.5	100	12.64	0.0	12.5	103
E	12.5	100	12.69	0.0	12.3	103
Z	14.5	100	11.56	+ 0.1	7.3 9.3	74

Wiechert 1000 kg. horizontal seismograph.

Wiechert 1300 kg. vertical seismograph.

Constants:

Component	T	ν	ρ	V
	sec		mm	
N	7.9	3.8	0.3	207
E	8.1	4.2	0.4	210
Z	5.5	4.4	0.1	161

Milne-Shaw seismograph, E component, with the approximate constants $T = 12^s$, $\nu = 20$, $V = 300$.

Benioff vertical seismograph, $T_1 = 1/4^s$, $T = 1^s$. $V_{\max} = \text{abt. } 30000$.

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No.	Date	Hour	Forerunners				L	△	Remarks				
			P or P'		S								
			m	s	m	s	m	s	h	m	°		
	1954												
	Jan.												
1	1	13	e	22 30								Flores Sea.	
2	2	1	e	18 14	e	22 17	i	18 23	26		23	Strong microseisms. Greece.	
3	4	13							.0				
4	6	15	i e	58 41+					65			Strong microseisms. Southwest of Spitzbergen.	
5	7	4					i	28 10				Strong microseisms.	
6	10	14							01				
7	11	17	i	21 16-		31 57*			48		83	No. Gal. Z record. Riukiu Islands [region].	
8	11	23							15				
9	12	14	e	36 22									
10	12	14	e	40 23			e	41 17		45	00	48 ^m .5. 51 ^m 48 ^s . 55 ^m 29 ^s . New Zealand.	
11	13	0							12				
12	13	0	i	33 12			e e	33 59		48	13	iSS 58 ^m 07 ^s . SSS 65 ^m .0. New Zealand.	
13	18	14							28				
14	20	5							.0			No Benioff record.	
15	23	16	i	14 38				16 11		25	21	Tadzhik, S. S. R.	
16	23	17	i	20 04					34			Aftershock.	
17	27	13	e	15 59									
18	30	4							06				
19	30	19							11				
20	31	12			i	03 52	i	04 58		15	46	19	Kamchatka.
21	Febr.	1	e e	19 53				23 35		25.9		50	SKS 30 ^m 23 ^s . 32 ^m 02 ^s . 35 ^m .9. 41 ^m .2. [Bonin Islands].
22	1	5							12				
23	1	6	i	29 05									
24	1	15				56.3							Northeast of Greenland.
25	2	17							59				Strong microseisms.
26	3	9	e	15 07									Seismic?
27	5	9	e	38 44				40 11		45	38	72	45 ^m 59 ^s . 47 ^m 05 ^s . 47 ^m 23 ^s . 49 ^m 40 ^s . 50 ^m .2. SS 56 ^m .2. SSS 60 ^m .0. New Britain.
28	5	15						i	41 03			57	Depth abt. 100 km. Destructive Mexico.
29	7	6	i	34 37								22	Strong microseisms. Depth abt. 100 km. [New Hebrides].
30	9	18											
31	9	23				41.0						46	North Atlantic Ocean.
32	11	0	i i	40 11+	i	48 17		41 05		43	23	58	i 45 ^m 09 ^s . ScS 50 ^m 07 ^s . China.
33	12	2										15	
34	15	20				e	16 05	e	15 12			17.4	SS 22 ^m 36 ^s . Peru.
35	17	1	e e	50 02		e	59 06					1.2	Kamchatka.
36	19	0	e	53 06				63.6		69.7		79	73 ^m .5. Nicaragua.
37	19	13										54	
38	19	15										20	
39	19	19	e i	27 46				i	28 00		31 36	80	35 ^m .4. i 41 ^m 43 ^s . SS 51 ^m .3. SSS 57 ^m .6. Kermadec Islands.
40	19	22						57 44		58.2		73	SS 63 ^m .5. SSS 67 ^m .0. Nicaragua.

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No.	Date	Hour	Forerunners				L	△	Remarks			
			P or P'		S							
			m	s	m	s	m	s	h	m	°	
41	1954 Febr. 20	18	e	48 30			e e	50 29	53	14		<i>i</i> 56 ^m 35 ^s . <i>i</i> SKS 58 ^m 26 ^s . <i>i</i> 59 ^m 17 ^s . <i>i</i> SP 61 ^m 34 ^s . <i>i</i> 62 ^m 08 ^s . <i>i</i> PS 62 ^m 44 ^s . 63 ^m 30 ^s . <i>i</i> 64 ^m 06 ^s . <i>i</i> 68 ^m 01 ^s . <i>i</i> 69 ^m 39 ^s . <i>i</i> 71 ^m 26 ^s . <i>i</i> 80 ^m 41 ^s . Depth abt. 600 km. Flores Sea.
42	20	20	i	04 22								Depth abt. 100 km. Lesser Antilles.
43	20	21	e e	48 22			i	48 35				Kermadec Islands.
44	20	22							52			
45	22	1	i	24 41								Hindu Kush.
46	22	6	i	23 39					52			Japan.
47	22	10	e	38 57			i	39 12	69			Japan.
48	22	12					i	28 46	59	29	56	<i>PS</i> 32 ^m 53 ^s . <i>SS</i> 40 ^m .2. <i>SSS</i> 43 ^m .6. Sandwich Islands.
49	23	6	i	50 52	e	59 09		60 39	70		61	Tibet.
50	24	17	i	39 57								Japan.
51	26	0	i	03 55								Japan.
52	26	18	i	54 12								Depth abt. 200 km. Hindu Kush.
53	28	0							42			
54	28	1	e i	07 47	e	17 59		18 10	35		81	Riukiu Islands.
55	March 3	6	e	21 39			e	22 38	57.6	22	57	<i>iPPP</i> 25 ^m 23 ^s . <i>i_N</i> 30 ^m 43 ^s . <i>iPS</i> 32 ^m 31 ^s . <i>PPS</i> 33 ^m 13 ^s . <i>iSS</i> 39 ^m 07 ^s . <i>iSSS</i> 42 ^m 31 ^s . 49 ^m .5. New Guinea.
56	3	7	i	55 41 -								Kamchatka.
57	3	16							20			
58	3	19	i	52 17			i	52 23				Western coast of Greece.
59	3	20	i	56 24								Southern Alaska.
60	5	4	i	25 17			i	25 26	52			Japan.
61	6	0	e i	48 11			i	48 14		i	48 17	<i>ipP'</i> 50 ^m 15 ^s . <i>i</i> 50 ^m 21 ^s . <i>SS</i> 70 ^m .0. Depth abt. 550 km. Fiji Islands region.
62	7	1	e	55 52				69.4	79			Ascension Islands region.
63	8	8	e	21 35								Galitzin interrupted. Ionian Islands.
64	8	13	e	49 37			i	49 38*				Japan.
65	9	2	i i	32 21	e	41 05	e	34 41	49	42	44	<i>SS</i> 45 ^m .0. <i>SSS</i> 47 ^m .8. Mid Atlantic Ocean.
66	9	5	i i	50 40	e	59 46		60 40	74	64	37	Kamchatka.
67	9	10	i	43 58								Depth abt. 350 km. Fiji Islands.
68	13	1							27			
69	13	19							.1			
70	14	9						17.6	60	33.2		<i>SSS</i> 39 ^m .0. Fiji Islands.
71	14	17	e	55 52	e	64 52			83			Both forerunners doubtful. Kamchatka.
72	16	9	i	59 36				59 52				Eastern Mediterranean Sea.
73	19	2							25			
74	19	8	i	30 50								Fiji Islands.
75	19	10			i	17 06		18 35	31			California.
76	20	14	e e	15 27					41			Kurile Islands.

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			P or P'		S				
			m s	m s	m s	m s	h m	°	
77	1954 March	6	i 20 27						
78	21	23	i i 52 43+	i 61 19	i i 53 28	i 53 49	75.6		Kamchatka. i 61 ^m 27 ^s . i 62 ^m 27 ^s . i 63 ^m 11 ^s . i 63 ^m 47 ^s . i 65 ^m 29 ^s . i 65 ^m 46 ^s . Depth abt. 200 km.
79	22	9	i 58 37				1.9		Burma.
80	22	17					38		Kermadec Islands region.
81	22	19	e 08 35				36		Kamchatka.
82	23	13					09		
83	24	17	i 32 49-		i 33 00				Kamchatka.
84	26	4	i 47 00		e 49 42				Japan.
85	27	11	i 44 56		e 45 57				Depth 230 km. Japan.
86	27	16	i 50 03						Very short period.
87	28	5					01		
88	28	17	i 22 05						Aleutian Islands.
89	28	20	e i 47 49	i 57 13.	48 19	58 07	71	72	Repetition.
90	28	21	i 09 29						»
91	29	4	i 13 44+	24 14	i 24 05		46	84	Philippine Islands.
92	29	6	i i 21 14	i 24 37	i 23 55	i 31 24			P: (-8.0, -6.5, -7.0; +5.9, +5.0, +2.8) per. 3 ^s .2. Depth abt. 150.
93	30	4			39 17		41		Sierra Nevada, Spain. <i>600</i>
94	30	19			06.8	09 14	.6		Greece.
95	31	18	i i 35 25	i 43 16	36 05	i 37 43	56	57	09 ^m 38 ^s . SS 15 ^m 20 ^s . Hawaii. i 38 ^m 54 ^s . Arabian Sea.
96	April	1	i i 30 14	39.7	34.6		55		Kurile Islands.
97	2	15	i 18 15		i 18 27		72		Kermadec Islands.
98	2	20	i 37 03						Kamchatka.
99	3	0	i 15 48						Repetition.
100	4	23	i e 25 34+		i 25 50		50		Japan.
101	6	10	i 24 56+						Southern Iran.
102	6	14	i 42 48-						
103	8	3							
104	8	4	e 22 59						Kamchatka.
105	10	3	i 18 49						
106	10	5	e 24 57						Solomon Islands.
107	11	3	e 22 04				60		Arabian Sea.
108	11	10	i e 35 07	42 53	i i 35 18		51	56	i 11 ^m 02 ^s . Masked by L-waves from
109	11	11	i i 01 17	07 31	03 01	i 04 03		42	[no. 108. Hindu Kush.
110	13	16							
111	14	14					.1		36 ^m 16 ^s . Aleutian Islands.
112	17	20	e i 22 07	i 31 29	24 49	26 42	44	72	No Galitzin records. Caucasia.
113	21	10	i 03 07						Deep focus. Mariana Islands.
114	22	15			23.5		43		Perhaps some preceding movement.
115	23	14	i 29 05						
116	23	18					56		
117	24	18					17		

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			P or P'		S				
			m s	m s	m s	m s	h m	°	
118	1954 April 25	0	e e 38 08	i 46 32	41 59	46 41	58	62	SSS 53 ^m .0. Off Liberia.
119	25	21					15		
120	26	20	e i 35 50	i 44 51	38 22	45 15	58	68	53 ^m .1. Kamchatka.
121	27	10	e i 19 20	i 30 07	29 50		46	88	South of Panama.
122	27	21	41.4						No Gal. H records. South of Tasmania.
123	29	8	e 42 39		e 42 53				
124	29	11	e e 02 10						No H-records. Gulf of California.
125	29	11	e e 47 08		i 57 29				Recording defective. Gulf of California.
126	30	0					41		
127	30	13	e e 06 43	i 10 02	i 06 47		12.0	18	Greece.
128	30	19					43		
129	30	23	e e 14 50	i 23 07	27.4	29.8	33.3	61	Mid Atlantic Ocean.
130	May 1	15	e 29 32	e 33 15	e 33 32		36	21	Aegean Sea.
131	1	18					50		
132	1	20	e e 58 04	e 61 53	i 62 05		64	21	Aegean Sea.
133	2	18		i 10 43			36		Sumatra.
134	3	5			e 33 35		37		Greece.
135	3	8	i 56 01	e 59 53			63	22	»
136	3	13	e 34 45	e 38 45			41	23	Dodecanese Islands.
137	3	15	i 40 55+	i 50 06	50 20	50 58	62.5	70	i 56 ^m 06 ^s . Kamchatka.
138	3	18					51		
139	4	8		e 41 45			44		Greece.
140	4	16	e e 47 30				53		»
141	4	16	e e 49 35						»
142	4	17	i 46 16				1.2		Kamchatka.
143	4	23					54		
144	5	0	i 41 37						Kamchatka.
145	5	3					09		
146	5	3	e 24.4				.9		Kamchatka.
147	5	11					45		
148	5	13	e e 22 29		22 48	24 26	49		iPP 25 ^m 23 ^s . iSKS 32 ^m 52 ^s . 33 ^m 15 ^s . SS 38 ^m .5. SSS 41 ^m .8. Gulf of California.
149	5	17					50		
150	6	9	i i 13 19	e 22 25	16 30	17 47	36		iScS 23 ^m 11 ^s . Depth abt. 100 km. Kamchatka.
151	7	0			53.4				Deep focus. Peru-Brazil border.
152	7	2	i 31 10+						Japan.
153	8	22					15		
154	9	14	i i 18 53	i 22 29	22 46		24.7	20	Jan Mayen region.
155	9	16					22		
156	9	20	i 56 37						Riukiu Islands.
157	11	23	i 01 41				33		Japan.
158	12	2	e 21 00	e 24 36			27	20	Greece.
159	13	14	i i 59 15	i 69 51	i i 59 32	62 27	87		iSKS 69 ^m 35 ^s . i 70 ^m 12 ^s . i 71 ^m 11 ^s . Depth abt. 100 km. Mexico.

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No.	Date	Hour	Forerunners				L	△	Remarks					
			P or P'		S									
			m	s	m	s	m	s	m	s	h	m	°	
160	1954 May 14	22	i	i 50 55 -	i	60 24	51	54	i	53 52				<i>isS</i> 62 ^m 07 ^s . <i>iSS</i> 65 ^m 32 ^s . <i>isSS</i> 67 ^m 02 ^s . Depth abt. 250 km. Japan.
161	15	12	e	e 29 17	e	33 07					35		21	Greece.
162	16	13									36			
163	16	16									08			
164	16	20	i	i 18 27	e	24 40	(i)	19 05*	i	24 46				28 ^m 10 ^s . 29 ^m 12 ^s . Depth abt. 200 km. [Hindu Kush.
165	18	10									54			Switzerland.
166	19	9	e	e 37 21							40.0			34 ^m .7. 37 ^m .6. New Britain.
167	19	23						27.7		33.3	1.1			
168	20	3									58			
169	21	5						35.6			38			
170	21	16				33.5					51			Alaska.
171	22	16	i	i 12 33										Seismic?
172	23	4	e	e 21 39	e	30 53	i	22 49	e	31 35	44			39 ^m .7. Depth abt. 150 km. Kurile Islands.
173	23	7					i	21 06						Recording interrupted. Celebes Sea.
174	24	16	i	i 55 44										Seismic?
175	24	22	e	e 40 05							55			Karakoram.
176	25	22	e	e 07 38	e	11 03					12.8		19	Greece.
177	26	1	i	i 54 17	e	63 25					78		70	Kamchatka.
178	26	10									28			
179	26	18									36			
180	26	19		08 55*										Kurile Islands.
181	27	6									31			
182	27	14									35			No Benioff record.
183	28	2									07			» » »
184	28	7									52.5			» » »
185	28	13	i	i 42 02			i	42 05						Fiji Islands region.
186	29	5	e	e 55 52										Depth abt. 550 km. Fiji Islands.
187	29	14	i	i 47 27										
188	29	22	i	i 40 50										Kermadec Islands.
189	31	16					i	07 19	i	13 26	40			17 ^m 06 ^s . <i>SS</i> 22 ^m .5. <i>SSS</i> 26 ^m .0. Flores Sea.
190	June 3	21									38			
191	4	7	e	e 04 22			08	16	17	12	32			<i>PPS</i> 18 ^m 03 ^s . <i>SS</i> 22 ^m 52 ^s . Galapagos Islands.
192	4	10			e	66 43	e	65 51	73	31	1.6			Java Sea.
193	4	16					e	24 59	30.2		44			Gulf of California.
194	4	16	i	i 48 18										Kurile Islands.
195	4	21	i	i 03 25	i	03 29							35 km	55°22' N, 12°35' E. Felt at Stevns, [Eastern Zealand.
196	5	14									14			
197	6	15	i	i 35 44										
198	6	17	e	e 09 12			09	52	12	17	42			<i>eSKS</i> 15 ^m 54 ^s . <i>iPS</i> 19 ^m 19 ^s . <i>SS</i> 25 ^m .5. Western New Guinea.
199	6	18									.6			Beginning in previous L-waves.
200	7	10	e	e 33 36	i	41 15	e	i 34 56	i	39 49				<i>isSKS</i> 43 ^m 12 ^s . Depth abt. 450 km. New Britain region.

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			P or P'		S									
			m	s	m	s	m	s	m	s	h	m	°	
	1954													
	June													
201	9	10									.9			
202	10	5									01			
203	10	18	i	55 06+			i	57 57-	i	58 12				Depth abt. 750 km. Fiji Islands.
204	10	22	i	49 46	i	59 34					105			Depth abt. 400 km. Japan.
205	11	11									38			No Benioff record.
206	11	17									41			
207	14	10									.5			
208	14	17									.3			
209	14	20			e	14 12					17.3			Greece.
210	15	13	i	42 31-			i	e 43 09-	i	54 10				i 54 ^m 35 ^s . i 55 ^m 08 ^s . i 56 ^m 11 ^s . i 65 ^m 20 ^s . Peru?
211	17	1	i	i 53 25+	i	62 26	i	62 38	i	63 24			68	Kodiak Island.
212	17	2	i	20 02			i	20 17						
213	17	16	i	22 57										Seismic?
214	19	2	i	i 08 38	e	18 27					37		78	Japan.
215	20	11	i	26 04										
216	20	22			e	26 28					37			Mid Atlantic Ocean.
217	21	2					e	e 06 45	i	13 05				i 13 ^m 48 ^s . Northern Chile.
218	21	2	i	25 27										Banda Sea.
219	21	9	i	34 21										Seismic?
220	25	5	i	24 25			i	24 32		28.0	29.6			Arctic Ocean.
221	28	5						43.2		50.0	81			Antarctic Ocean.
222	30	13	e	e 36 14	i	43 52		47 29		49.1	53.1			Ethiopia.
	July													
223	1	3	i	26 26							53.6			Kamchatka.
224	1	6									06			
225	2	2	e	e 58 16				61 53		69 17	89			69 ^m 28 ^s . 70 ^m 28 ^s . SS 75 ^m .6. Philippine [Islands.
226	2	7	i	43 21										
227	2	23									05			
228	3	0	e	e 43 07				51.4		55.4	62			Belgian Congo.
229	3	21	e	e 27 41				e 38 02			56			Philippine Islands.
230	3	22	i	i 44 53				i 48 49		51 20	74			i SKS 55 ^m 31 ^s . 56 ^m 39 ^s . SS 62 ^m 41 ^s . Depth abt. 100 km. Java.
231	5	12									52			
232	5	14			e	12 36		e 13 26			26			Kamchatka.
233	6	4						27 14		29.8				SS 36 ^m .0. New Britain region.
234	6	8	i	16 04+		25 27		i 16 18		20 32				i 25 ^m 37 ^s . i 26 ^m 12 ^s . SS 29 ^m .5. Depth abt. 100 km. Kurile Islands.
235	6	10	e	e 25 38										Kurile Islands.
236	6	11	i	23 10										Repetition.
237	6	11	e	e 25 11	i	35 03		i 35 34		40.5	50		77	SSS 43 ^m .4. Nevada, U.S.A.
238	6	22	e	i 19 34	i	29 23					45		77	Repetition.
239	7	0	e	26 42				28 15						Norway.
240	7	0	i	49 23				50 53		i 51 06				»
241	7	2									.0			
242	8	11	i	23 48										Seismic?
243	9	12	e	40 02				43 32						Tonga Islands region.

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			P or P'		S				
			m s	m s	m s	m s	h m	°	
244	1954 July 9	15	i e 49 56-	59.4	i 50 06		1.3		Japan.
245	9	18	i 39 58+	i 49 05	i 41 01+	50 55	61		Depth abt. 250 km. Japan.
246	10	17					01		
247	10	23	i i 04 38+		05 48	06 24			isPP 07 ^m 29 ^s . isS 12 ^m 13 ^s . e 14 ^m 23 ^s . [Depth abt. 200 km. Hindu Kush.
248	11	17					48		
249	12	2					34		
250	12	17	e e 43 45	e 53 13	e 43 59	62.2	68	73	Kurile Islands.
251	12	19	e 03 18						Repetition.
252	13	8			i 24 54	41.1	60		New Britain region.
253	13	22					45		
254	15	0					24		
255	15	1					08		Some previous moving.
256	17	9					54		
257	18	6	e e 45 31		55 05	59.6	70		Kamchatka.
258	18	9	i 19 41	i 29 33	i 19 48	i 29 57	45	77	i 30 ^m 17 ^s . SS 34 ^m 20 ^s . Japan.
259	18	11					43		
260	18	13	e 23 14	e 27 06			30.6	22	Greece.
261	18	14	i 46 55	i 50 31			53	20	Ionian Sea.
262	18	20	i 12 37		i 12 51				Kermadec Islands.
263	21	9					27		
264	23	4			i 52 41	60 07	1.4		PS 62 ^m 16 ^s . PPS 63 ^m 32 ^s . SS 68 ^m 38 ^s . SSS 72 ^m .6. Central Chile.
265	23	14		e 60 11	63.3		69		Afghanistan.
266	26	20	e e 34 37		36 03	i 41 31	1.1		SKSP 45 ^m .6. PS 46 ^m .2. Central Chile.
267	26	22	e 20 16	e 28 44			39	63	Mid Atlantic Ocean.
268	27	21	e 08 21	e 16 40			27		Badly recorded. Mid Atlantic Ocean.
269	29	3	i i 45 52+	i 55 01	i 45 57		69	72	Kamchatka.
270	29	4					47.9		
271	29	6	i 47 56-						Kermadec Islands.
272	30	9	e 05 16		i 07 24	i 08 40	.7		i 17 ^m 36 ^s . 18 ^m 56 ^s . SS 24 ^m .5. SSS 29 ^m .7. Southeast of Easter Island.
273	31	1	i e 10 06	e 18 21	i 10 12	13 39	29	61	i 18 ^m 31 ^s . iScS 19 ^m 46 ^s . SS 22 ^m 31 ^s . SSS 24 ^m .4. Ningsia province, China.
274	31	22					37		
275	Aug. 1	4					22		
276	2	1	i 23 55						
277	3	18	e e 22 22	25.6			27.3		Aegean Sea.
278	3	23					27		
279	4	1					23		
280	5	3	e 52 59				58.6		Greece.
281	5	4					47		
282	5	9	i 01 12	e 10 36	01 27	06 45	.4	72	11 ^m 19 ^s . Aleutian Islands.
283	5	20	e 44 15	48.2			51.6		Forerunners badly recorded. Turkey.
284	6	0					44.5		Some very weak forerunners.
285	6	11	i 38 24	e 42 03	i 42 10		45	20	Greece.
286	6	16					11		

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No.	Date	Hour	Forerunners				L	△	Remarks
			P or P'		S				
			m s	m s	m s	m s	h m	°	
287	1954 Aug. 6	16	e 30 25	i 38 55	i 40 27	43.1	51	63	Mid Atlantic Ocean.
288	6	19					29.1		
289	7	18					.6		
290	8	16	i 48 58						Fiji Islands region.
291	9	19	i i 27 50	i 36 46	32 07	i 37 46		68	SS 41 ^m .1. Kamchatka.
292	12	23	i 29 19+				.6		Kamchatka.
293	13	0					1.2	71	Kamchatka.
294	14	1	e e 48 01	e 57 17	e 48 19				»
295	15	5	i 51 16				27		
296	16	9							
297	18	5	i i 01 45-		e i 02 25	i 05 13			pPP 05 ^m 48 ^s . i 06 ^m 14 ^s . i 12 ^m 58 ^s . Depth [abt. 150 km. Tonga Islands.
298	18	18					37		
299	18	23					54		
300	19	21	e e 08 15	e 12 18	i 08 19		15	23	Turkey.
301	20	15	e 37 57				52		Arabia.
302	20	17	e 34 03				39		Jan Mayen region.
303	20	19	e 25 56				31		» »
304	20	20	e 28 37	32.0			33.6		» »
305	20	20	e 40 56						» »
306	20	20	e 46 45						» »
307	20	21	e 08 43						» »
308	20	21	e 51 43	53.2			57		» »
309	20	22	e 13 33				18		» »
310	20	23	e 03 39				08.2		» »
311	21	0	e i 29 59				35		» »
312	21	0	i 30 28-						» »
313	21	4	i 17 40						» »
314	21	7	e 24 12	28.1			29.2		» »
315	21	13					03		
316	21	13	e 09 32				16		Jan Mayen region.
317	21	17	e 44 29				49.5		» »
318	21	20					45		
319	21	22	e 55 27				59.8		Jan Mayen region.
320	22	2	56.1				62		» »
321	22	10	e 12 27				17.5		» »
322	22	12	44.0				49		» »
323	22	18					32		» »
324	23	0					03		
325	23	9					22		
326	23	9	e 37 04				43		Jan Mayen region.
327	23	11	e 43 43				49		» »
328	24	6	e i 03 22-	i 13 14	06 13	08 12	28	77	SKS 13 ^m 30 ^s . PS 13 ^m 43 ^s . 14 ^m 52 ^s . iSS 18 ^m 10 ^s . Nevada, U.S.A.
329	24	6	e i 22 36						Masked by previous quake. Jan Mayen
330	25	2	e 17 31						[region.
331	25	2					14		
332	26	19					43		

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No.	Date	Hour	Forerunners				L	△	Remarks
			P or P'	S					
			m s	m s	m s	m s	h m	°	
333	1954 Aug. 26	20					20		
334	27	11	e 07 43		e 18 28	20 22	39		SS 24 ^m 43 ^s . Bonin Islands region.
335	27	12	i 25 58						Masked by previous quake. Jan Mayen region.
336	28	10	i 13 21+				42		Japan.
337	29	0					17		
338	30	8	i 08 55				36		Recording interrupted. Kurile Islands.
339	31	22					56		
340	Sept. 2	2					02.5		
341	2	19			e 13 17	i 14 35			31 ^m 07 ^s . Santa Cruz Islands.
342	4	3			e 47 54	55 36	80		SS 63 ^m 36 ^s . New Guinea region.
343	4	4	i 23 58						Aegean Sea.
344	4	6	i 53 34						Nepal.
345	4	6	i 55 02						»
346	4	9					34		
347	4	14					18		
348	5	8	i 05 05		i 08 16	26.9			SSS 32 ^m .7. Fiji Islands region.
349	6	14					53		
350	6	16	e 59 27				90		Philippine Islands.
351	6	18	e e 41 57	e 50 59*	i 42 01	i 51 06	65	69	i 51 ^m 23 ^s . SS 55 ^m .4. Kamchatka.
352	7	0			e 31 24		47		Philippine Islands.
353	9	1	i i 09 23	i 13 06	i 13 22		15.2	21	Orléansville, Algeria.
354	9	1	i 21 32						Depth abt. 200 km. Tonga Islands.
355	9	2	e 57 09						Repetition to no. 353.
356	9	9	i 33 27	37.2			39.5		» » »
357	9	18					31		
358	10	5	i 48 51	i 52 40			54.8	21	Algeria.
359	12	8		e 05 06	05 35	05 49	19.5		SS 10 ^m 08 ^s . SSS 13 ^m .6. No Z-record.
360	13	2	i i 29 20-		i 30 09	i 32 49			Japan.
361	13	18					57		iPKS 33 ^m 05 ^s . PPP 36 ^m 05 ^s . SSS 57 ^m .4.
362	14	1	e 00 48				31		Depth abt. 150 km. Tonga Islands.
363	14	7			35.5		39		Philippine Islands.
364	14	7			i 47 16		63		» »
365	15	18	i 14 33		i 15 13	e 17 20			Riukiu Islands.
366	17	11	i i 22 28-		i 22 37	i 23 32			ePP 17 ^m 46 ^s . ePKS 18 ^m 02 ^s . iSS 35 ^m 36 ^s .
367	18	16					.5		Depth abt. 600 km. Fiji Islands.
368	20	0					21		Z-records only. Depth abt. 250 km.
369	20	0		e 65 08	e e 57 42	e 64 08	1.5		[Tonga Islands region.]
370	20	3					01		SS 72 ^m 21 ^s . SSS 75 ^m .5. Celebes.
371	20	17	i 24 18				40		Depth abt. 550 km. Tonga Islands.
372	21	10					80	72	
373	23	21	i i 54 59	e 64 21	69.6	72.6	.5		Kurile Islands.
374	25	12							

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No.	Date	Hour	Forerunners				L	△	Remarks
			P or P'	S					
375	1954 Sept. 28	1	<i>m s</i>	<i>m s</i>	<i>m s</i>	<i>m s</i>	<i>h m</i>	°	
376	Oct. 1	3			<i>i 17 06</i>	<i>i 18 20</i>	.9		SS 34 ^m 36 ^s . No Benioff record. Santa Cruz Islands.
377	3	3			<i>e 08 52</i>	<i>i 10 41</i>	.7		<i>iPPP</i> 11 ^m 13 ^s . SS 26 ^m 28 ^s . Santa Cruz Islands.
378	3	11	<i>i i 29 09</i>	<i>i 37 38</i>	<i>i 29 32</i>	<i>i 29 43</i>	52		<i>PP</i> 31 ^m 49 ^s . <i>isS</i> 38 ^m 01 ^s . <i>i</i> 39 ^m 36 ^s .
379	4	0					14		[Depth abt. 100 km. Alaska.
380	4	2					14		
381	4	10					36.0		
382	5	4	<i>e 30 31</i>				61		Japan.
383	5	11					52.9		
384	6	9					00		
385	8	10	<i>i 57 38</i>		<i>e 60 18</i>				Kurile Islands.
386	8	19	<i>i 51 38</i>						Fiji Islands region.
387	11	16					<i>e 50.6</i>		
388	13	22					34		Strong microseisms.
389	14	2					28		» »
390	16	0	<i>i i 32 36</i>				37.5		Jan Mayen region.
391	17	23			<i>e 20 17</i>	20 48	36		<i>i</i> 21 ^m 16 ^s . SS 25 ^m 15 ^s . California.
392	18	16	<i>e 45 14</i>	45 42	45 24			2.5	8°24' E, 56°44' N. Felt in Thy and Mors, northern Jylland.
393	19	17	<i>e e 53 38</i>	<i>i 58 05</i>	<i>i 59 18</i>		60.5	26	Northern Atlantic Ocean.
394	20	23	<i>i e 54 15</i>				1.5		Japan.
395	21	1					.1		
396	23	2	<i>i 47 10</i>						
397	24	10					24		
398	24	23					46		
399	26	10					44		
400	27	22					12		
401	30	22					29		
402	30	23	<i>e 49 16</i>	<i>i 54 09</i>	54 49		56.3	29	Azerbaijan, S S R.
403	Nov. 1	21					33.9		
404	2	8			42.6	<i>i 49 04</i>	1.2		<i>SKKS</i> 49 ^m 50 ^s . <i>PS</i> 52 ^m 09 ^s . <i>PPS</i> 53 ^m 13 ^s . SS 58 ^m .0. SSS 61 ^m .7. No Benioff record. Sumbawa Island region. <i>L</i> beginning in previous <i>L</i> -waves. Strong microseisms.
405	2	10							
406	5	23					25		
407	6	13					48		
408	7	5	<i>i 38 40</i>		<i>i 38 42</i>				Tonga Islands region.
409	11	5	<i>i 22 09</i>						Iran.
410	12	12	<i>e e 39 17</i>	<i>e 49 42</i>	50 34		66	83	Strong microseisms. California.
411	15	16			<i>e 50 09</i>		1.2		Strong microseisms. Mariana Islands.
412	17	17	<i>i 30 41+</i>		<i>i 30 43+</i>				Depth abt. 600 km. Mariana Islands.
413	18	5	<i>e 31 15</i>	<i>i 40 33</i>	<i>e 31 41</i>	41 22	54		Depth abt. 100 km. Kurile Islands.

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No.	Date	Hour	Forerunners				L	△	Remarks				
			P or P'		S								
			m	s	m	s	m	s	h	m	°		
414	1954 Nov. 18	20	i	i 56 44+					85			Japan.	
415	19	6	i	i 06 25	i	14 59	08 18	i	09 12	33		Depth abt. 600 km. Sea of Japan.	
416	21	7	e	57.2			e	57 40	e	57 50		Kermadec Islands.	
417	23	13	i	03 51								Deep focus. Lipari Islands region.	
418	23	21	i	24 03			24 12			51		Kamchatka.	
419	25	11	e	28 38	i	38 36	e	31 39	i	39 05	.9	78	SS 43 ^m 46 ^s . SSS 46 ^m .8. California.
420	25	12	i	16 45-									Japan.
421	25	21								35			Depth abt. 650 km. Fiji Islands region.
422	25	21	i	i 52 10-			i	52 40+	i	e 54 50+			Kamchatka.
423	29	1	i	50 07-									
424	30	20								37			
425	Dec. 3	22								00			
426	4	7								55			
427	4	18	i	42 32+	i	51 49	i	52 32		65	71		Near Trinidad.
428	6	3								.8			
429	7	0								58			
430	7	15					19 07			40			Celebes Sea.
431	11	4								01			
432	11	13	i	i 02 42	e	07 12	i	03 05		09.5			North Atlantic Ocean.
433	16	11	i	i 19 07	i	28 55	i	19 13		45	76		Nevada, U.S.A.
434	16	11	e	i 23 21	e	33 12				45	76		Repetition.
435	21	12								56			
436	21	20	i	08 21	i	18 13	23 06	26 23		34	77		California.
437	23	9	i	56 53						37	19		Seismic?
438	23	16	e	31 40	i	35 10				37	19		Greece.
439	26	3	e	54 11						86			Japan.
440	28	1					28 09	41 43		55			New Britain region.
441	29	12								38			
442	30	2								16			
443	30	11	e	10 40	i	14 31				16	22		Greece.

December 1955

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