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No. 57 1947

Geodætisk Institut
Proviantgården, Copenhagen, Denmark

Bulletin
of the seismological station
KØBENHAVN

$\varphi = 55°41'$ N. $\lambda = 12°26'$ E. $h = 13$ m.

Lithologic foundation: chalk

No. 57. Jan.—Dec. 1947.

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	0.1	12.3	102
E	12.5	100	12.69	0	$11^1/_2$–$13^1/_2$	100
Z	14.5	100	11.56	0	8	88

Wiechert 1000 kg. horizontal seismograph.

Wiechert 1300 kg. vertical seismograph.

Constants:

Component		T	ν	ϱ	V
		sec		mm	
N	$^1/_1$–$^{28}/_6$	8.6	3.0	0.7	202
	$^{28}/_6$–$^{24}/_{10}$	7.7	2.2	0.9	197
	$^{24}/_{10}$–$^{31}/_{12}$	8.3	$5^1/_2$	0.7	200
E	$^1/_1$–$^{28}/_6$	8.3	4.0	0.4	203
	$^{28}/_6$–$^{31}/_{12}$	8.3	4.2	0.9	203
Z	$^1/_1$–$^{31}/_{12}$	$6^1/_2$	6	0.3	145

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

Benioff vertical seismograph, $T_1 = {}^1/_4{}^s$, $T = 1^s$. $V_{max} =$ ca. 30 000.

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København

No.	Date	Hour	Forerunners				L	△	Remarks
			P or *P'*	*S*					
	1947		*m s*	*m s*	*m s*	*m s*	*h m*	°	
	Jan.								
1	3	0	i *e* 17 22						Japan.
2	3	2	i *i* 28 42	*i* 38 15			53	74	}44m.6. 46m.4. 47m.5. Japan.
3	3	2	i *i* 32 05	41.8	32 19				
4	3	3	e 07 03						Japan.
5	3	3	e 43 06						»
6	3	9			35.0	36.0	52		39m.5. Japan.
7	4	0	i 49 43						Japan.
8	4	0	e 52 01		i 52 10				
9	5	19					05		
10	8	0	i 18 04				51		*P* small. Philippine Islands.
11	9	12	e 27 37				58		Strong microseisms. Japan.
12	15	19					11		
13	15	20	i 02 29						Probably deep.
14	18	3					17		
15	20	0	i 44 40				77		
16	21	20					58		
17	23	10	e 28 30						Seismic?
18	23	16	*i* 09 03	*i* 18 21	19 00		35	71	No Benioff record. Aleutian Islands.
19	24	12	e 23 28						Seismic?
20	24	16	i *i* 59 58	*i* 69 54	62 56	75.1	88	78	78m.8. Japan.
21	25	4		*i* 15 42	21 22	24.6	28		No Benioff record. Central America.
22	26	4			22 10		28		Afghanistan.
23	26	5	e 43 41						
24	26	10	i *i* 19 08	*i* 29 15	e *e* 19 48	*i* 22 25	43		*PS* 30m15s. 35m.9. *P* (—1.8, +6.0, +8.1; +2.0, —9.0, —16.0). Depth [about 100 km. Nicaragua.
25	27	3					39		
26	28	10			45 26	47 37	58		Indian Ocean.
27	29	6	e 03 49						
28	29	8	i *i* 30 54		i *i* 35 15	*i* 37 27			*iSKS* 40m40s. 41m24s. 44m28s. *i* 44m38s. 45m35s. 47m.2. 51m.0. 53m.7. Depth about 600 km. Argentina.
29	30	1	e 13 51	*i* 23 24			43	74	Indian Ocean.
30	30	12	i *i* 40 26	46 45	41 32	42 54			43m12s. 48m05s. *i* 50m10s. Depth about 200 km. Hindu Kush.
	Febr.								
31	4	23	i *i* 50 01	*i* 59 28	i 50 06	*i* 59 53	1.2	73	Japan.
32	5	15					41		Weak.
33	6	8	i 06 31	*e* 16 30				78	*S* doubtful.
34	6	15	i *e* 13 44				1.1		South Pacific Ocean.
35	7	8	i 59 42		61 45	63 10	98		68m45s. 72m.2. *SS* 79m.1. New Hebrides [Islands region.
36	9	5					21		
37	9	12	i 04 38						
38	9	19					32		
39	10	4	i *e* 11 34	*i* 19 15	13 53	*i* 21 30	28	55	23m25s. Himalaya.
40	10	17					30		
41	11	10	i 15 06	*i* 24 39					Probably deep.
42	12	20					49		
43	14	17					58		

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København

No.	Date	Hour	Forerunners				L	Δ	Remarks
			P or *P'*	*S*					
	1947 Febr.		*m s*	*m s*	*m s*	*m s*	*h m*	°	
44	15	1	i *e* 19 15	*e* 28 41			.7	73	
45	16	9	i 31 39	*e* 41 46			58	80	China Sea.
46	16	12	i 34 01						
47	17	0					19		
48	17	22	i 30 27						
49	18	0	e 18 38						
50	18	13	i *i* 41 47	*i* 51 12	i *i* 43 24	*i* 53 56	69	80	*iSS* 56m30s. Depth about 400 km. Japan.
51	18	14	i 12 41						
52	19	7					34		*M* 49m.
53	21	22	i *i* 12 54	*e* 22 48	28.0		41	77	Japan Sea.
54	22	4					42		
55	24	6	i 43 24				58		Turkestan.
56	24	17	e *i* 45 13	*i* 56 25	*i* 49 02	*i* 55 38	78	93	*PS* 57m48s. *PPS* 58m32s. *SS* 63m.3. [Peru.
57	25	23	i 36 08						
58	26	2					36		
59	26	5	i *e* 46 17	*i* 49 18				16	Gulf of Taranto, Italy.
60	28	19	i 40 18						
61	28	21	e 15 23		i 15 25				
	March								
62	2	1					49		
63	2	19	e *e* 28 08		*i* 29 18	*i* 31 48	62		*SKS* 34m54s. *iSKKS* 36m09s. *iPS* 38m48s. 40m.0. *SS* 45m15s. 46m25s. *SSS* 49m.7. New Guinea.
64	6	14	*i* 10 39				42		Seismic?
65	6	18	*e* 04 56		14 41				»
66	7	5	*e* 37.5						»
67	7	6	*e* 04.1		12 20				»
68	8	15	e 09 28		i 09 29		33		
69	10	2	e 04 13	13 02	17.1		23	66	South Atlantic Ocean.
70	11	5	i 28 17						
71	11	17	i 11 22	15 20			18.1	22	Crete.
72	13	10	i 31 19						Probably deep.
73	13	13	i 37 33						» »
74	13	14	i 06 08						» »
75	16	9	i 44 49				72		Philippine Islands region.
76	17	8	e 29 50	*i* 38 15	i *e* 29 53	30 23	49	62	44m.0. *i* 45m02s. Sinkiang Province, [China.
77	18	9	i 07 16						
78	21	23	i *e* 04 55		05 27	*i* 09 25	12		Crete.
79	24	16	i 52 10						
80	25	20	*e* 52 20		e *i* 53 04	57 18			61m38s. 63m55s. 66m48s. 67m18s. 70m.3. 77m.8. No Gal. N record. Seismic sea-wave. East of North Island, New Zealand.
81	26	16					57		
82	27	7	i 40 52		i 41 11				
83	27	17					41		

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København

No.	Date	Hour	Forerunners				L	△	Remarks
			P or *P'*	*S*					
	1947 March		m s	m s	m s	m s	h m	°	
84	27	20					34		
85	27	21					52		
86	28	3					50		
87	29	7					59		
	April								
88	2	5	*i* 53 46–		57 23	58 26	1.5		$59^m.0$. *SKS* 64^m26^s. *SKKS* 65^m29^s. 65^m54^s. *iPS* 64^m44^s. 68^m07^s. *iPPS* 68^m51^s. *SS* $73^m.3$. *SSP* 74^m13^s. North of New Guinea.
89	2	20	e *e* 57 22	*i* 67 29	i *i* 57 25	*i* 67 45	83	80	*i* 68^m35^s. Formosa.
90	3	1					49		
91	8	0	i 13 48		*e* 20 50		27		Phases masked by microseisms. Kirghiz Republic, Russia.
92	8	3					09		Strong microseisms.
93	9	14					.7		
94	9	21	e 21 41*				34		Kirghiz Republic, Russia.
95	10	16	e 05 20						
96	10	16	*i* 10 17+	*i* 20 24	13 17	25.6	34	80	*SSS* $29^m.6$. Northeast of Los Angeles.
97	11	0			*e* 28.3	33.6	48		Indian Ocean?
98	11	2	i 13 23						
99	11	14	i *i* 42 01	*i* 52 21	*e* 45 23	52 47	69	82	58^m18^s. i_Z 57^m45^s. $58^m.0$. Formosa region.
100	12	14	*e* 08 48		*e* 12 44		14.5		Aegean Sea.
101	12	16					11		
102	12	16					20		
103	13	4					51		
104	13	18					13		
105	14	4					.4		
106	14	7	*i* 27 06	*e* 36 42	37 27		51	74	Japan.
107	16	13					31		
108	19	17			*e* 50 03		55		Turkey.
109	19	20		*e* 37 11	37 20		39.2		Greece.
110	21	4					.2		
111	24	19	*i* 45 35	*i* 54 02*	47 35	*i* 55 23	63	63	Mid Atlantic Ocean.
112	29	6					15		
113	30	5	e 00 15	*e* 09.1	13.1		26		Canada.
	May								
114	2	2	i *i* 30 15+	*i* 39 26	40 12	43.2	52	70	Aleutian Islands.
115	2	15					01		
116	3	4	e 18 48	22 41			25	21	Turkey.
117	3	9	i 47 35	*i* 57 25	57 52		72	77	Japan.
118	4	0	i 58 20–						Persian Gulf.
119	4	22		*e* 48 17			56		» »
120	6	20	e *e* 49 32		50 49	53 30	1.5		*iPS* 60^m31^s. *iPPS* 62^m07^s. 67^m51^s. New Britain region.
121	7	11	e 52 06						

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København

No.	Date	Hour	Forerunners				L	△	Remarks
			P or *P'*	*S*					
	1947		*m s*	*m s*	*m s*	*m s*	*h m*	°	
	May								
122	7	13					13		
123	7	15					01		
124	8	18	i *i* 55 49		i *i* 56 07				Depth about 65 km. Burma.
125	9	14					09		
126	9	22	i 35 04				41		
127	10	0	*e* 17 23	25 36			36	60	Near Okhotsk.
128	11	6	i *e* 36 21	*i* 39 36	36 29			18	Italy.
129	11	18			58 00	64 26	86		*SS* 71m59s. *SSS* 75m.7. Java Sea.
130	11	22					57		
131	13	14					31.5		
132	14	2	*e* 27 33		30 38	33 46	1.3		Loyalty Islands.
133	15	21	i 05 29						
134	17	7	*e* 26 38		31 23	35 43			*SKKS* 37m46s. *SKSP* 42m25s. *PPS* 45m18s. 47m25s. *SS* 52m.2. *SSS* 59m.4.
135	18	1	i 32 57						[New Zealand.
136	19	17					34		
137	22	8	*e* 42 31						
138	22	17	i 27 27						Seismic?
139	24	0	*i* 19 36	*e* 26 56	21 35	30.7	36	32	Gulf of Aden.
140	24	15	*e* 20 55	*e* 28 18			37	52	» » »
141	25	12					33		
142	25	16	e 06 19		*i* 16 41		33		Aleutian Islands.
143	25	23	e *e* 12 22	22.6			38		Formosa.
144	26	0					50		
145	26	11			*i* 18 31		44		*S*?
146	26	13	i *i* 11 56						Depth about 200 km. Kurile Islands.
147	26	19	i 58 59		62 53	67 04	1.6		70m04s. 77m18s. Solomon Islands.
148	27	3			*e* 53 41	*i* 53 52	1.5		*i* 54m17s. *i* 54m31s. *PS* 63m23s. *PPS* 64m21s. *SS* 69m16s. Timor.
149	27	6			*e* 17 48	27 26			Wiechert *Z* record only. New Guinea.
150	27	18					.3		
151	28	15	*i* 07 36		i 07 41	11 13			*H* masked by longperiodic micro-
152	31	3	i 09 56						[seisms. Fiji Islands region.
	June								
153	1	11	e *i* 23 09	*e* 26 47	23 27	*i* 26 55	28.3	20	Southwest of Greece.
154	1	19					18.5		
155	1	22		*e* 32 03			40		Gobi.
156	2	6	*i* 48 18+	*i* 54 30	49 59	57.4	61	41	58m22s. 58m48s. No Benioff record. Turkestan.
157	4	0	e *e* 33 55	*i* 37 20			39.4	19	Sporades Islands.
158	6	0					57		
159	7	5					.7		
160	7	19		12 14	04 49	13 19	33		Philippine Islands.
161	8	0					27		
162	10	11		37 26			58		Masked by microseims. Philippine Islands.
163	10	19	*e* 47 07	52 23	54 20		56	33	Azores.

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København

No.	Date	Hour	Forerunners				L	△	Remarks
			P or *P'*	*S*					
	1947		*m s*	*m s*	*m s*	*m s*	*h m*	°	
	June								
164	12	9	e *i* 16 23		20 27	*i* 27 00	49		*SKKS* 27m29s. *PS* 29m26s. *SS* 35m.2. Moluccas.
165	13	20	i *i* 38 09	49 22	*i* 38 13	*i* 41 57	70	93	48m44s. *PS* 30m31s. 55m39s. 59m.2. Marianna Islands.
166	13	21	e 13 48						Marianna Islands.
167	14	0	e *e* 03 37		07 20	14 41	36		*PS* 15m30s. 21m05s. Marianna Islands.
168	14	0	e *e* 44 02		47 48				Marianna Islands.
169	14	16	*e* 43 21		47 56		78		» »
170	15	14					.2		
171	16	0		*e* 35 03			42		Arabian Sea.
172	16	11					03		
173	17	1	*e* 18 34						Loyalty Islands.
174	17	14					.7		
175	19	2			*e* 31 29	38 20	61		38m38s. Marianna Islands.
176	19	7	*i* 47 51		51 36	58 23	80		58m55s. *PS* 60m21s. *SS* 65m20s. *SSS* [69m.1. Marianna Islands.
177	19	23			14 08		19		
178	20	13	*e* 43 00	*e* 50 00			58	48	Mid Atlantic Ocean.
179	20	19					.7		
180	20	22					15		
181	20	23		*e* 21 21			25		Azores.
182	21	1		*e* 10 11			15		»
183	22	18	*e* 20 53		*e* 24 23		69		Readings uncertain.
184	23	12					07		
185	23	19					36		
186	23	21					57		
187	27	15					35		
188	28	2			12 00		35		Moluccas.
189	28	11		*e* 17 23			19		Württemberg.
190	30	8			16 07		41		Moluccas.
191	30	9					38		
	July								
192	4	15					32		
193	4	20					16		
194	5	3					.6		
195	7	22	i 40 04	*e* 43.6			45.5		Ionian Sea.
196	9	18					55		
197	10	10	i 28 07	*e* 35 04	30 45	36 32	43	48	38m.7. Northern India.
198	10	16		*e* 28 32	21 18		48		Off coast of Guatemala.
199	12	2	*e* 10 25	*e* 19 48	20 44		34	72	No Gal. *Z.* record. Kurile Islands.
200	12	13			16.6				*M* 57m. Masked by longperiodic microseisms. Tonga Islands.
201	16	19	*i* 32 42	*i* 42 42	35 40		62	79	East of Japan.
202	17	5					.5		
203	17	8	i 36 22		i 36 29				
204	18	12					.2		
205	20	8	i 52 50						

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København

No.	Date	Hour	Forerunners				L	Δ	Remarks
			P or *P'*	*S*					
	1947 July		m s	m s	m s	m s	h m	°	
206	21	0	i *i* 52 52		54 32				Depth about 350 km. North of Ker-
207	21	4	i 15 13						[madec Islands.
208	21	9	i 10 23						
209	21	9	i *i* 40 56		*i* 44 31				
210	23	17			*e* 33 04	*i* 33 09	68		*SKS* 38m56s. *iSKKS* 40m11s. *PS* 42m57s. *SS* 49m.0. *SSS* 53m.5. South Atlantic Ocean.
211	23	21	i 41 45						
212	24	1	i 44 21						
213	24	12	*i* 36 18		39 23	40 08	80		New Hebrides Islands.
214	24	22					51		
215	25	1	*e* 18 52		*e* 21 49	31 40			32m13s. Depth about 600 km. Fiji Islands region.
216	25	19	*e* 21 47	32 42	*e* 26 04	*i* 31 36			Depth about 600 km. Northern Argentina.
217	26	12	*i* 06 51	*i* 16 10	*i* 16 49		30	71	Kurile Islands.
218	26	16					.9		
219	26	23					.9		
220	27	20			18 40	26.0			Turkey.
221	28	3	*e* 59 05	*e* 67 21			80	61	Alaska.
222	28	7					48		
223	29	7					.2		
224	29	13	i *i* 53 43	*i* 62 08	54 22	55 24	72	62	*iScS* 63m37s. Tibet-Burma border.
225	30	19					23		
226	31	7	i 58 27	*e* 61 25	62 14		64	16	Tyrrhenian Sea.
227	31	10					.5		
228	31	14		*i* 37 31					Longperiodic microseisms. Off Ecuador.
	Aug.								
229	2	1					55		
230	2	2					.6		
231	4	18					23		
232	5	14	*i* 32 51+	39 43	*i* 34 51	43.8	47.2	47	Baluchistan.
233	6	5	*i* 59 18	*i* 69 36	*i* 61 28	*e* 66 07			68m21s. *SKS* 68m56s. 72m21s. 73m34s. 79m35s. Depth about 550 km. Brazil-Peru border.
234	6	9	*e* 51 05	*e* 54 46			56.5	20	Algeria.
235	7	0	*i* 51 51	*i* 61 19	62 01	66.3	72	73	*SSS* 69m.3. Santiago, Cuba.
236	7	12		*e* 37 38			39.6		No Gal. *Z.* record. Algeria.
237	9	2	i *i* 58 55	*i* 67 35			78	65	Mid Atlantic Ocean.
238	12	6					20		
239	12	16					08		
240	15	4	*i* 16 28	*e* 20 53			23	25	Caucasia.
241	15	9	e 27 12						
242	16	6			*e* 08.1		17		
243	17	9			26.9		45		
244	17	15	e 08 40	*e* 12 10			15.1	19	Ionian Sea.
245	19	20		*e* 24 17			34		Himalaya?

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København

No.	Date	Hour	Forerunners				L	Δ	Remarks
			P or *P′*	*S*					
	1947		*m s*	*m s*	*m s*	*m s*	*h m*	°	
	Aug.								
246	22	2	52 43		53 58	64 16	1.5		72m.5. No Gal. *Z*. record. South Pacific Ocean.
247	23	4		54 09	62 06		67		Burma?
248	23	14	*e* 02 03	*e* 10 07	04 21		.5	59	Interpretation doubtful.
249	24	11	*i* 45 29	*i* 52 14	46 42	*i* 55 31	59	46	Sinkiang province, China.
250	25	18					.8		
251	25	21	i 29 23						
252	27	13	*i* 57 44		*i* 58 28	61 29	105		62m14s. 64m37s. 69m46s. 82m.0. New Zealand.
253	28	7	*i* 01 37+	10 50	*i* 02 04	11 45	24	71	Kamchatka.
254	28	14	*i* 40 34+	49 35	54.2		62	69	»
255	28	20					52		
256	29	21					.8		
257	30	22	*i* 26 27–	*i* 30 22			33	22	*P* (–3.0, +1.8, –3.0; +6.3, –3.5, +4.0). Aegean Sea.
	Sept.								
258	1	22	i 22 29	*i* 25 29				16	Tyrrhenian Sea.
259	2	14	*i* 51 46–		*i* 55 01	56 36			*i* 58m12s. *i* 61m28s. 63m24s. 65m10s. Depth about 200 km. Tonga Islands region.
260	3	15	*i* 38 09	*i* 47 21			62		Depth about 150 km. Kuriles Islands.
261	3	19			17 36	18 42	58		Solomon Islands.
262	4	0			52 42		1.6		Samoa.
263	5	11					40		
264	10	0					.3		Phases masked by strong microseisms.
265	13	15	*i* 15 40	*i* 19 14			21.9	20	Ionian Sea.
266	13	22					48		
267	14	10	i 15 35						
268	17	18					.3		Strong microseisms.
269	19	8			13 52		16		No Gal. *Z*, *N* record.
270	20	19			10 58		.3		
271	23	12	e *e* 35 39	41.6					Iran.
272	25	23			*e* 49 27	*e* 56 31	71		64m28s. Forerunners uncertain.
273	26	3	e *e* 12 01	*e* 17 58	20 43	21 31	24	39	Iran.
274	26	16	i *i* 14 03	*i* 23 59	24 38		37		Deeper than normal, China Sea.
	Oct.								
275	1	12	*e* 50 22		54 04	54 48			62m13s. *P′* uncertain. Masked by long-periodic microseisms. Depth about [100 km. New Hebrides Islands.
276	2	12					02		
277	3	6	i *i* 21 56	*e* 28 28	23 41	28 36			*ScS* 31m04s. *SS* 31m59s. *SSS* 33m.2. Depth about 300 km. Baluchistan.
278	3	6	i *i* 32 35	*i* 42 12				74	Superposed on previous shock.
279	3	23		55 15	*i* 55 36		72		Depth about 100 km. Mexico.
280	5	19			06 22	07 26	32		*PS* 09m44s. *SS* 16m.8. *SSS* 19m.0. New Guinea.
281	6	15					40		

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No.	Date	Hour	Forerunners				L	Δ	Remarks
			P or *P′*	*S*					
	1947 Oct.		m s	m s	m s	m s	h m	°	
282	6	20	i *i* 00 06	*i* 03 34	*i* 04 28			19	*P* gradually increasing. *PcP* very great. Greece.
283	8	4					02		
284	9	16					48		
285	10	2	i 58 40		i 58 48				South Pacific Ocean.
286	10	7	e 43 44		53 42	61.0	69		Japan.
287	10	8	e 34 34						Later phases masked by previous *L*-waves. Ionian Sea.
288	10	14	*e* 03 04		08 36		58		*P′* uncertain. Kermadec Islands.
289	10	17	e 43 02				76		
290	10	18					35		
291	14	2	e 01 26				1.2		Kermadec Islands.
292	14	22	i 37 28				53		
293	16	2	i *i* 19 52	*i* 28 03	21 24	22 05	38	60	27^m41^s. *ScS* 29^m47^s. *SS* 32^m33^s. *SSS* $34^m.6$. Alaska.
294	17	13					45		Only Wiechert running.
295	19	17	e 57 34						Seismic?
296	20	1	i *i* 53 22	61 34	57 07	63 13	71	60	$68^m.2$. Alaska.
297	21	10					23		
298	22	18					24		
299	24	18					.0		
300	27	10					39.5		
301	29	12	i 10 22		i 10 47				
	Nov.								
302	1	6	e 13.0	24 33	*e* 16 42	*i* 23 56	44		$30^m.3$. Sumatra.
303	1	15	e *e* 12 29	*i* 23 53	i *i* 12 34	*i* 23 08	46	96	*iPS* 25^m29^s. Peru.
304	3	20	e 24 12						
305	4	0	e *e* 20 30	*i* 29 50	24 33	30 32	44	71	*SS* 34^m33^s. Japan.
306	4	10	i 05 26						South Pacific Ocean.
307	5	0					01		
308	5	3					08		
309	6	16	e 22.4				29		Aegean Sea.
310	7	23					48		
311	8	2					26		
312	8	4					.7		
313	8	7					34		
314	8	14					10		
315	8	16	i 33 42				49		Himalaya.
316	9	5	i 17 21		20 33	21 28	61		23^m09^s. 24^m48^s. Loyalty Islands.
317	9	15					59		
318	10	1					.0		
319	10	4		09.5			12		Mid Atlantic Ocean.
320	12	11					.8		
321	12	16	*i* 38 28		*i* 41 41	42 20	84		*SS* 60^m35^s. Loyalty Islands.
322	13	3					.8		
323	14	5					.9		
324	14	11		*i* 10 36	11 18	15 30	24		Depth about 200 km. Japan.

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No.	Date	Hour	Forerunners				L	Δ	Remarks
			P or *P'*	*S*					
	1947		*m s*	*m s*	*m s*	*m s*	*h m*	°	
	Nov.								
325	15	20	i 33 34						
326	15	23					45		
327	16	2					24		
328	16	17	i 55 11						
329	17	10		*i* 14 58	21 14		24		Mid Atlantic Ocean.
330	17	11					.9		
331	19	13					54		
332	20	8					56		
333	21	4					.6		
334	21	20					.0		
335	22	23	e 10 12						Carpathians.
336	23	9	i *e* 57 13	*e* 66 25			76	70	Idaho, U.S.A.
337	25	13					.2		
338	25	19					05		
339	26	23					31		
340	28	17	18 28*						Seismic?
341	29	10	*e* 18 15	*e* 21 42			23.2		Aegean Sea.
342	29	18					30		
343	30	13	i 14 01		i 14 10				
	Dec.								
344	2	21	i 55 30		i 58 12				
345	5	23	e 41 48						
346	7	1	i 52 03	*i* 58 17	e 52 58	e 53 10		42	59^m32^s. $61^m.6$.
347	7	19	e 28 30		*e* 34 52				
348	8	18					.5		
349	9	5					10		
350	9	9	*e* 52 30	*i* 56 38			59.0	23	
351	9	17					01		
352	9	23					27		
353	9	23	e *e* 45 19	*i* 49 38	45 40	*i* 46 47	51.7	25	Asia Minor.
354	10	5					01		
355	11	13					.4		
356	15	13					32		
357	15	19	e *i* 40 31		i *i* 42 08	e *i* 46 01			*SKS* 47^m16^s. 49^m16^s. *PPP* 50^m09^s. 52^m53^s. *i* 56^m36^s. *SS* 68^m. Depth about 100 km. South Pacific [Ocean.
358	16	19	i 47 35						
359	16	21	e 02 43				31		
360	17	22					27		
361	19	2	i 55 49				69		
362	19	4	i 46 13	*e* 53 12	56 24		61	48	*S* badly marked.
363	19	16	i 49 00	*e* 59 24			81	83	
364	19	17	e 36.0				43		Asia Minor.
365	23	2	e 08 33		i 08 39				Central America.
366	24	5	e *e* 41 06		44 45	61.2	1.6		*SSS* $67^m.2$. South of Australia.
367	26	17					.9		
368	27	16	i 58 15		i 58 56				

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No.	Date	Hour	Forerunners				L	Δ	Remarks
			P or *P'*	*S*					
	1947 Dec.		*m s*	*m s*	*m s*	*m s*	*h m*	°	
369	29	18			*e* 19.5		23		
370	30	0		*e* 11 55			15		North Atlantic Ocean.
371	30	2	e 07 55	*e* 18 40	19 40	*i* 19 47	37	87	Near coast of Costa Rica.
372	31	5	e *e* 36.0	*e* 40.3			42	25	North Atlantic Ocean.
373	31	15					12		
374	31	15	e 26 02		*i* 26 25	30 02	71		$39^m.2$. Samoa Island.

May 1954

HENRY JENSEN

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