No. 8. GEODÆTISK INSTITUT 1937.

Copenhagen, Denmark.

Bulletin of the Seismological Station

IVIGTUT

$\varphi = 61^\circ 12'$ N. $\lambda = 48^\circ 11'$ W. h = 20 m.

Lithologic Foundation: Gneiss.

Instruments: WIECHERT 1000 Kg. Horizontal Seismograph.
WIECHERT 1300 Kg. Vertical Seismograph.

Constants:

Component	T	v	r	V
	sec		mm	
N	8.8	3.6	0.3	180
E	8.9	4.1	0.4	215
Z	5.1	3.3	0.1	195

No.	Date	Hour	Forerunners P	Forerunners S			L	Undef.	△	Remarks
	1937 Jan.		m s	m s	m s	m s	h m	h m	o	
1	7	6					.9			
2x	7x	13	32 45	42 33	35.7	37 40	.9		77	China
3	19	22					47			
4	23	11					.8			
5	25	7					.5			Strong microseisms.
	Feb.									
6	1	10					.2			
7	5	6					21			
8	7	5					5			
9x	21x	7	14 11	23 41x	24 7	29.0	34		74	Pacific Ocean.
10	21	7	38 7							
11	21	11					.5			
12	22	3					.5			
13	22	5					.3			Faint.
14	22	13		45.1			1.0			Pacific Ocean.
15	23	0		69 14			79			P uncertain, $^m 47^s$. possibly $59^m 47^s$. Pacific Ocean.
	Mar.									
16x	9x	15	50 17	58 25	53.9		1.1		59	Panama.
17	10	5					.3			
18	14	12	8 34	i19 13	19 1	19 40			87	SS $24^m.8$. Chile.
19	17	14					.5			
20	19	19					.1			
21	22	10					46			Small.
22	22	11					10			"
23	22	11					35			"
24	22	11					50			"
25	22	13					17			
26	24	1					.8			
27	25	17					15			
28	26	21					.6			

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No.	Date	Hour	Forerunners P	Forerunners S			L	Undef.	△	Remarks.
	1937 Apr.		m s	m s	m s	m s	h m	h m	o	
29x	5x	7			16 49	22 35	45			New Guinea. No records 12d13h to 15d19h.
30x	16x	3			19 59	i20 6				Pacific Ocean.
31	21	21	58 2				65			Greenland Sea.
32	29	18	13 42		15 8	i15 26	16			Atlantic Ocean.
33x	29x	18					52			
34x	29x	19	1 54	9 18x	3 8	11.7	16		52	Alaska.
35	29	20	29 48	38 46x					68	Japan.
	May									
36	1	16					0			
37	4	5	16 55	24 10	27.6		31		51	P-.S small, uncertain.Alaska.
38	9	14	58 17	67 43	68 0		80		73	P and S small. South of Kurile Islands.
39	13	9					.8			
40	21	13	22 44	31.0					61	
41	28	15	45 8	52 36	45.8				56	P+. Mexico. Depth ca. 160 km.
42	28	20			10 28	12 25				eN, E 18m10s,55s.
43	31	16					.6			
	June									
44	2	1					26			
45	8	18	i11 46							P+.
46x	8x	22	38 54	46.3	39 38	47 37			55	Mexico.
47	13	23	33 45	41.9			57			"
48	14	14					.3			
49	21	15	24 54	34 2	34 35	38.7	43		70	Peru. P+. No N and E records 23d21h-24d12h.
50	24	13	21 40	29.8			.6		59	Off Costa Rica.
51	24	13	23 32	31.6					59	" " "
52	24	20	5 42	10 25	6 12		12		27	S not clearly marked, possibly earlier than read. Atlantic Ocean.
53	26	18						28		
54	28	20					.5			
	July									
55	1	6					31			
56	1	12			8.8	18.3	.8			24m.1.
57	2	2			56.2	58.1	1.5			No records 2d13h-6d16h.
58	11	14					.4			
59	11	17			42.5		49			
60	14	22			51 30		70			
61	16	10			41 43					
62	19	10					.7			
63x	19x	19	i45 57	i54 35	46 39	47 14	1.0		68	Ecuador.
64x	22x	17	i17 13	23 22	18 46	25.7	27		40	Alaska.
65	23	0					12			
66	23	7					.6			
67	24	2					.2			
68	24	9					22			
69	24	16					.7			
70	25	11					.9			
71	25	13					35			Small preceding movement.
72x	26x	3	i56 30	i64 2	56 54	59 37		1.0	55	Mexico. Depth ca. 80 km.

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	1937 July		m s	m s	m s	m s	h m	h m	o	
73	26	20	8 47				38			No N or E records.
74	28	11					2			
75	30	15					.2			
76	31	20			58 34	62.5	1.3			
	Aug.									
77	1	11			3 49		22			
78	2	15					80			Small preceding movement.
79	4	22					15			
80	5	0			1.5					$15^m.0$; $15^m.4$.
81	5	15			4.2	14.0	.6			
82	10	16					.7			
83x	11x	1			13 45	15 36				Deep focus. Off Java.
84	17	13			33 26					
85x	20x	12			17 38	23 26				Luzon.
86	24	18					1.4			Small preceding movement.
87	24	20					39			
88	24	23					20			
89	26	19					.6			
90	31	15					.0			
	Sept.									
91	1	9			1.7		.8			
92	3	18	58 13	66 18x	66 33	67 3	1.2		58	Deeper than normal. Aleutian Islands.
93	4	6					1.2			Small preceding movement.
94x	8x	1			0.3	5 17x	27			South Atlantic.
95	15	12			58 24	60.4	1.3			e_N $64^m.9$. Solomon Islands region. Beginning of record disturbed.
96	15	14					.3			L' of preceding shock?
97	15	23		66 16						P small, uncertain. Off Guatemala.
98	17	10					.5			
99	20	7	13 48	21.8			35			P possibly 10^s earlier than read. Off Mexico.
100	21	10					.6			
101	22	4					.1			
102	23	13			24 54	26 37				e_N $35^m.8$. $e36^m37^s$. Solomon Islands.
103	25	4	34 43	38 45					23	L small. Atlantic Ocean.
104	27	9			14 12	17.5				e_N $22^m.8$. Java.
105	28	6					.8			Small preceding movement.
	Oct.									
106	5	6					49			Very strong microseisms. Mexico.
107	6	9		64 33	60 28		1.2			
108	6	17			25 21	35.3	1.0			Solomon Islands.
109	6	22						.2		
110	12	21	3 34		4 5	14 12				SKS 13^m56^s. e_N $15^m.0$. Chile.

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No.	Date	Hour	Forerunners P	Forerunners S			L	Undef.	△	Remarks.
	1937 Oct.		m s	m s	m. s	m s	h m	h m	o	
111	23	18					1			
112	24	11	44 25	51 14	54.4		57			P quite small, uncertain. Alaska.
113	29	7	37 26	46.4						
	Nov.									
114	10	7					.7			
115	13	11					.1			
116	13x	19					.3			Faint.
117x	14x	11	9 4	i18 5	i10 3	i10 27			73	Afghanistan.
118	15	22					.2			No records 20^d12^h to 24^d20^h.
119	25	5					.9			
120	27	20					.4			Small preceding movement.
121	28	5			43.8	51.0	1.5			
122	30	1					.6			
123	30	13			20 42					
	Dec.									
124	8	8			56 20		1.3			
125	12	9					.2			
126	13	19					.6			
127	13	23							14	Faint.
128	17	10					.3			Strong microseisms.
129	18	13					.8			P_Z recorded, but reading uncertain.
130	22	3	47 41	55 32	51 1	62 6	67		57	SS $59^m.6$. P small, uncertain. Off Mexico.
131	22	8					7			
132x	23x	13	i27 46	35 50	30 0	37 49			59	Mexico.
133	30	11					.2 27			
134	31	18								Strong microseisms.

x affixed to number and date refers to Notes.

x affixed to time of phase indicates that beginning of phase is in time-mark.

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Notes

No. 2. Jan. 7. 13^h. China. P_Z 32^m45^s; i_Z 32^m58^s. PP $35^m.7$; PPP 37^m40^s. $eS_{N,E}$ 42^m33^s; i_E 42^m51^s, large.

No. 9. Febr. 21. 7^h. Pacific Ocean. eP 14^m11^s, condensation. e_Z 14^m54^s. eS 23^m41^s, in time-break; e_N 23^m59^s larger. e_Z $24^m\ 7^s$. e_E 26^m10^s. SS $29^m.o$.

No. 16. March 9. 15^h. Panama. P possibly 2 sec. later than read. S small, not clearly marked; followed by larger movement, probably other phases.

No. 29. April 5. 7^h. New Guinea; $\triangle$ = ca. 120°. $PP_{N,Z}$ 16^m49^s, e_Z $18^m\ 7^s$. SKS_N 22^m35^s; $SKKS_N$ $23^m.5$. $PS_{N,Z}$ $26^m.6$; e_E $27^m.2$; $PPS_{N,E}$ $28^m\ 8^s$. SS $33^m.o$. L_Q 45^m, L_R 53^m.

No. 30. April 16. 3^h. Pacific Ocean. The following interpretation is based on the Pasadena travel-time curve, 1936, for a focal depth of 400 km. For the epicentral distance 128° there is a rough agreement with the curves. P_Z' 19^m59^s, quite small; i_Z $20^m\ 6^s$, rather large. pP_Z' 21^m44^s. PP $22^m\ 7^s$. e_Z $22^m.9$. pPP 23^m25^s, large on E. sPP 24^m26^s. PPP $25^m.o$. e $26^m.o$. SKS 26^m42^s, large on E. e_E $27^m\ 7^s$. pSKS 28^m30^s.S or sSKS $29^m.6$, large on N. SP or SKSP $31^m.6$. SPP $33^m.1$. pSP $33^m.5$. e_E 35^m26^s, e $36^m.6$. SS $38^m.6$ and sSS $41^m.o$ large. SSS_E $44^m.1$. L small.

No. 34. April 29. 19^h. Alaska. P 1^m54^s. P_cP_N $3^m\ 8^s$. eS_N 9^m18^s; iS_E Z 9^m23^s. PS 9^m37^s. e_N $10^m\ 1^s$. S_cS $11^m.7$. SS $13^m.6$.

No. 46. June 8. 22^h. Mexico. Depth 190 km. P 38^m54^s; pP 39^m38^s; PPP $42^m.2$. S $46^m.3$; sS 47^m37^s. e_N $52^m.o$.

No. 63. July 19. 19^h. Ecuador. Depth about 170 km. iP_Z 45^m57^s, condensation. pP 46^m39^s. e_Z 47^m14^s. iS 54^m35^s. e 55^m32^s,46^s.

No. 64. July 22. 17^h. Alaska. iP 17^m13^s, dilatation; e 17^m21^s larger. PP 18^m46^s; e 52^s. e_Z 19^m53^s. S 23^m22^s, clearly marked on N and Z; on Z preceded by increase of movement. e 23^m51^s. $25^m.7$; $26^m.4$.

No. 72. July 26. 3^h. Mexico. Depth about 80 km. iP 56^m30^s. pP 56^m54^s. e_E 57^m19^s. PP 59^m37^s. e $60^m.4$. iS $64^m\ 2^s$. e $64^m.8$. e_E 66^m11^s; 53^s. $68^m.6$.

No. 83. Aug. 11. 1^h. Off Java; $\triangle$ = ca. 125°. Depth about 600 km. i_Z 13^m45^s, quite small; i_Z 13^m47^s larger. Later phases not clearly marked. e 15^m36^s. $17^m\ 5^s$. $21^m.6$. $24^m.8$. $27^m.3$, $28^m.6$.

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Notes

No. 85. Aug. 20. 12^h. Luzon; $\triangle$ = ca. 110°. PP 17^m38^s. SKS 23^m26^s. SKKS $24^m\ 1^s$. PS 26^m13^s. PPS $26^m.9$. e_E 30^m56^s. SS 32^m26^s. SSS $37^m.3$.

No. 94. Sept. 8. 1^h. South Atlantic; $\triangle$ = ca. 115°. Deeper than normal. $e_{N,Z}$ $0^m.3$. e_{N_m} 5^m17^s, 6^m36^s. $e_{N,Z}$ 9^m29^s. SS $16^m.0$. L_{Q_h} 27^m, L_R 33^m.

No. 117. Nov. 14. 11^h. Afghanistan. Depth about 220 km. eP $9^m\ 4^s$, iP $9^m\ 6^s$. e_{N,E_m} 9^m48^s. ipP $10^m\ 3^s$, isP 10^m27^s. e 11^m20^s. PP 11^m48^s. PPP 13^m24^s. e 14^m45^s. iS $18^m\ 5^s$ SP 18^m43^s. sS $19^m.5$. e_E 20^m31^s. SS $22^m.5$.

No. 132. Dec. 23. 13^h. Mexico. Phases large and clearly marked. P 27^m46^s, condensation. PP $30^m\ 0^s$, PPP $31^m\ 1^s$. e 31^m26^s. S 35^m50^s. S_cS 37^m49^s.