

No. 2.

1928.

Geodætisk Institut

Proviantgaarden, 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: Granite.

No. 2. Aug.—Dec. 1928.

Instruments:

Galitzin pendulums with galvanometric registration.

Constants:

Component	l	T_1	A_1	T	k
	cm	sec	cm	sec	
N	12.0	12.4	100	11	70
E	12.0	11.9	100	10	65
Z	14.1	10.1	100		

The values of T and k are approximate mean-values; the damping has been nearly aperiodic.

Z has not been very stable; the period has varied from about 2^s to 4^s.

Time-corrections have been determined daily by means of Nauen scientific time-signals and time is, in general, known to the second.

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P	S						
			m s	m s	h m s	. m s	h m	h m	°	
1	1928 Aug. 15	18								L; beginning disturbed.
2	16	7						.8		
3	17	19						35		Seismic?
4	19	3						.0		
5	19	4					.6			
6	20	2			16.4					
7	22	7					.3			
8	22	20					24			
9*	23*	1			34 31					Sea of Okhotsk.
10	23	4			.1		.4			
11	23	6						.5		
12	24	9			52.9					Alger.
13*	24*	22			4.0	12.7				
14	25	0					.3			
15	25	2					.4			
16	26	5					.1			
17	26	6					.1			Faint.
18	28	2					.0			
19	28	8			.9		1.3			
20	28	10					.4			
21	29	2						19		
22	29	3					.7			
23	29	5			46					Not very distant.
24	29	8					.0			
25	29	10					.6			
26	30	7					.3			No records 29 ^d 16 ^h 33 ^m —19 ^h 30 ^m .
27	30	22					.6			
28*	Sept. 1*	6	19.7	28 17	35.2		.7		63	Northern India.
29	2	0	5 20	14.5	18.9				69	Central America.
30	6	6		48 59			1.1			
31	6	9						.9		
32	11	1			6 23		.5			No records 6 ^d 23 ^h —7 ^d 11 ^h . E record only.
33*	11*	12	47 3*	54 38	49.5	58.7	2		54	Pacific Ocean.
34	11	22						.1		
35	12	1			41.5					Distant; phases not clearly marked. Faint preceding movement.
36	13	3			54.3		1.4			No records 18 ^d 15 ^h —20 ^h . Bay of Aden.
37	18	20	4.1	13.5			.5			
38	19	3					.3			
39	19	8	27 54	38.1			.9		80	
40	21	13	39.8	50.0	43.4		1.1			Peru.
41	22	7					.1			
42	22	7			51 54	61 55	1.4			West of New Hebrides.
43	23	14					.4			
44	24	10					.2			
45	25	5			19 47					Japan.

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No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P	S						
	1928									
	Sept.		<i>m s</i>	<i>m s</i>	<i>h m s</i>	<i>m s</i>	<i>h m</i>	<i>h m</i>	°	
46	25	8	13 13	21.7			.6		63	Japan.
47*	27*	0	54.6	63 10	63 41	70.4	1.2		63	Lesser Antilles.
	Oct.									
48	3	1					.3			
49*	9*	3	12 20	21 32	15.0	16 50			69	Mexico.
50	12	0					.1			
51	12	7		48 44			1.0			
52	13	13					.8			
53	13	16					.1			Disturbed.
54	15	9					.5			
55	15	14	30 12	38.9	32 24	46.0	.9		64	N record only. S faint.
56	19	10			.7		1.5			No records 23 ^d 17 ^h 2 ^m —18 ^h 52 ^m .
57	25	12			54		1.1			
58	28	15					.2			
59	30	5					.0			
60	31	20					.7			
	Nov.									
61	1	4	23 23				.7			Mexico.
62*	6*	4			26 19	27.5	1.0			Loyalty Islands.
63	7	15			42.9		.9			
64	11	23					.8			
65	15	13						.6		
66*	20*	20	48 52		59.4	60 44	1.3		37	Chile.
67	27	9								
68	28	2					.1			
69	28	7					.8			
70*	28*	11			2.7	12.6	.6			Sunda Islands.
71	29	16					.9			
72	29	18			23.3		1.2			South of Tonga Islands.
73	30	0					.4			" " " "
	Dec.									
74*	1*	4	21.0		25 35	35 4	.9			Chile.
75	2	4			49.3	55.3	1.2			"
76	2	22						56		Not very distant.
77	3	13					.0			
78	7	9						.7		Strong microseims.
79	9	0					.9			Salomon Islands.
80	9	5			35		1.0			" "
81	9	18			40		1.0			" "
82	10	5					.5			
83*	12*	20			41 43	42 37				NE of New Zealand.
84	14	0							54	
85	14	2					.9			
86*	19*	11			55.1	61.7				Mindanao.
87	21	6						.4		
88	22	14					.8			
89	26	21			55.4		1.2			
90*	28*	14			40	44.1	1.1			Mindanao.

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NOTES

- No. 9. Aug. 23. 1^h. Sea of Okhotsk. *E* record only. 34^m31^s clearly marked, presumably *S*. The rest of the record faint.
- No. 13. Aug. 24. 22^h. Several later phases, but not clearly marked.
- No. 28. Sept. 1. 6^h. Northern India. *E* record only. *P* and *S* distinct phases, but beginning of *P* uncertain. *SSS* clearly marked.
- No. 33. Sept. 11. 12^h. Pacific Ocean. *E* record only. *P* small, beginning uncertain, possibly in time-break. *S* clearly marked. 55^m.9 another phase seems to begin. *SS* prominent. In *M* a period of about 12^s.
- No. 47. Sept. 27. 0^h. Lesser Antilles. *P* not clearly marked. On *E*, *S* and *PS* well defined. 64^m28^s a phase, most clearly marked on *N*, possibly *S_cS*. *SS*, 68^m.0, small. *SSS* well marked on *N*. The beginning of *L* has long periods; *M* small.
- No. 49. Oct. 9. 3^h. Mexico. Very strong record. *P* large, but owing to microseismic movement the beginning not quite certain; *P_E*, *P_Z* 12^m20^s, *P_N* 12^m28^s. *PP* not strong, *PPP* larger and followed by continued strong movement. *S* not very clearly marked owing to strong preceding movement; followed by very large movement. *L* very large, the beginning uncertain.
- No. 62. Nov. 6. 4^h. Loyalty Islands; $\Delta = c. 130^\circ$. On *Z* faint movement precedes *PP*, 26^m19^s. *P_cP_cS*, 27^m.5, clearly marked on *N*. Later forerunners largest on *N*; *PS*, 38^m.0; other phases not clearly marked. *L* not large.
- No. 66. Nov. 20. 20^h. North Chile; $\Delta = c. 100^\circ$. Masked by microseisms. *P* small, but distinct on *Z*. *PP*, 52^m.8, not much larger. Previous to *S_cP_cS*, 59^m.4, some increase of movement. *S_n*, 60^m44^s, sharp on *N*. The beginning of *PS*, c. 61^m.6, not certain; later increase of movement due to *PPS*. *SS* 66^m.2. Regular *M* group about 21^h.5.
- No. 70. Nov. 28. 11^h. Sunda Islands. Quite strong forerunners, but disturbed by microseisms and not very clearly marked. *M* not large, but of long duration.
- No. 74. Dec. 1. 4^h. Chile; $\Delta = 112^\circ$. *E* record only. *P* faint. 25^m.2 increase of movement preceding *PP*, 25^m35^s, strong and clearly marked. *PPP*, 25^m50^s, and *S_cP_cS*, 31^m39^s, well defined. Some other phases, less clearly marked, precede *PS* 35^m4^s, large and sharp. *SS* 40^m.9. The beginning of *L* uncertain owing to large preceding movement. Large *M* group c. 5^h.2.
- No. 83. Dec. 12. 20^h. NE of New Zeland; $\Delta = c. 140^\circ$. *P'* 41^m43^s; *P_cP_cS* 42^m37^s. Later phases not clearly marked. The beginning of *L* uncertain, c. 21^h.4; several regular *M* groups.
- No. 86. Dec. 19. 11^h. Mindanao; $\Delta = c. 100^\circ$. Strong record, but phases not clearly marked. Faint beginning c. 51^m.7. *PP* 55^m.1. After 61^m.7 strong, increasing movement. Some large oscillations. 78^m, possibly the beginning of *L*. Large *M* groups.
- No. 90. Dec. 28. 14^h. Mindanao, $\Delta = c. 100^\circ$. No *N* record. Faint beginning; after 44^m.1 continued irregular movement without well-marked phases. The beginning of *L* not certain; regular *M* group about 82^m.