

Documentation preserved at the Geological Survey of Denmark and Greenland (GEUS) - KMS (Copenhagen),
reproduced on 2005 by SGA Storia Geofisica Ambiente (Bologna) on behalf of the Istituto Nazionale di
Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.
These data are considered public domain and may be freely distributed or copied for non-profit purposes
provided the project is properly quoted.

No. 12.

1935.

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: Gneiss.

Instruments:

Galitzin pendulums with galvanometric registration.

Constants:

No. 12. Jan.-June 1935.

Component	l	A_1	T_1		μ^2	T	k
N	12.0	100	11.8	$1/1 - 23/5$	0.0	11.7	49
E	12.0	100	11.9	$23/5 - 30/6$	0.0	11.9	105
Z	14.9	100	11.6	$1/1 - 23/5$	0.0	11.8	49

Time-corrections have been determined daily by means of Nauen scientific time-signals and time is known with an accuracy of about $1/10 \text{ sec.}$

No. 12.

— 2 —

1935.

Scoresby-Sund.

No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks	
			P	S							
1	1935 Jan.	1	13	m s	m s	h m s	m s	h m	h m	°	i 60 ^m 28 ^s . Pacific Ocean. Deep focus.
2		2	23			42.8	i 57 27		10		Preceding movement masked by
3		3	2			55 9	50.6	58.0	18		Asia Minor. [microseisms.]
4		4	14			33.8	27.6	36.3		» »	
5		4	16						.2	Faint.	
6		4	20							»	
7		5	11						.1	Faint preceding movement.	
8		17	2						1.1		
9		18	18						.1		
10		23	7	33.7	41 30	43.6				56	Aleutian Islands. Masked by strong microseisms.
11	Febr.	26	17						.9		
12		4	18						.5		
13		6	2		8 7				14	Atlantic Ocean.	
14		9	20						.1		
15		13	10						.0		
16		13	17			48.8					
17		22	17	15.9	i 23 50					Bering Sea. Strong microseisms, P	
18		25	2	59 21	65 34	69.2				Crete. Deep focus. [uncertain.]	
19	March	5	10	36.0	43 11	47.0				Persia. P quite small, uncertain.	
20		5	22						.7		
21	14	13							.3		
22	14	15					55 20	64.3	1.6		
23	15	12							.7		
24	17	22							.1		
25	20	23							.9		
26	26	22							.1		
27	30	21			40 27	45.3			.9		
28	31	3			34.5				41	Japan. Turkey.	
29	April	1	3						.6		
30		1	9						52		
31	3	7							.8		
32	3	11	21 25	29 9	34 34						
33	3	12							.4		
34	3	22							.1		
35	3	23							.9		
36	5	4							.0		
37	5	9							37		
38	7	14							55		
39	9	20			14 21	17.7				Caspian Sea.	
40	11	1				41.4				Indian Ocean.	
41	12	12	53 41	61 6	64.6				1.2	No records 11 ^d 16 ^h —12 ^d 11 ^h .	
									52	Persia.	

Geofisica e vulcanologia (Rome), in the frame of the EUROSISMOS project.
These data are considered public domain and may be freely distributed or copied for non-profit purposes
provided the project is properly quoted.

No. 12.

— 3 —

1935.

Scoresby-Sund.

No.	Date	Hour	Forerunners						L	Un-defined	△	Remarks
			P	S								
42	1935 April 12	22	m s	m s	h m s		m s	h m	h m	°		Persia.
43	17	4			48.4			59.6				
44	18	22	19 34	22.4						23		P and S small, uncertain.
45	19	8								.5		
46*	19* 15	i31 35	38 11	i33 24	i34 13						45	Mediterranean Sea.
47	19	18								.0		L' of preceding shock?
48	19	20		46 24	41 45							Mediterranean Sea.
49	19	23								.5		Faint.
50	20	5	19 9	25 54	20 57	29.2			33		46	Tripolis.
51	20	7								.9		
52	20	12								.1		
53	20	21								.1		
54	20	22	14 20	i24 36								Japan. P not quite certain, [possibly earlier.]
55	21	7			50.2					1.3		
56	23	16	57 20	66 55*	67.8						75	Assam.
57	24	16		16 19	9 15					.7		Indian Ocean.
58	24	19	2 49	11 59						.4		
59	27	19								18		
60	29	20								.7		
61	May 1	10	i32 53	39.5	42.8						45	Transcaucasia. iP, condensation. [No E record.]
62	4	23								.8		
63	6	0								.2		Faint.
64	7	6			19.8					.6		
65	11	19			17 30*					20		
66	12	0								.8		Faint.
67	12	5									43	
68	12	13								.2		
69	12	16								47		Small.
70	12	20			15 4					.7		
71	13	2								.7		Faint.
72	13	6								.3		
73	13	20	5 59	16.2	9 1					.6		Siam.
74	14	0			.2					.9		
75*	14* 23				i42 5	i45 17						Atlantic Ocean.
76	15	2	12.0	20.6	27.8							Baluchistan. P and S small, not Afghanistan. [quite certain.]
77	16	17		41 44	1.4					.9		
78	16	21				28.7				.7		
79	17	13								.1		
80	18	17								.7		
81	19	22								.6		
82	20	5			39 52	46.6	1.2					e 49 ^m .7. Celebes.
83	21	7			11.4	21.2	.8					SS 27 ^m .4. Australia.
84	21	13								.8		
85	22	8								57		Small.
86	22	10								27		»
87	23	18	8 13*	15.0	60.5	62.6				19		P quite small. Atlantic Ocean.
88*	24* 5	49 56									46	Philippines.

No. 12.

— 4 —

1935.

Scoresby-Sund.

No.	Date	Hour	Forerunners				L	Un-defined	△	Remarks
			P	S						
89	1935 May 25	0	m s 21 22	m s	h m s 31.8	m s 32.5	h m .5	h m	°	e 36 ^m .2. SS 39 ^m .1. Philippines.
90	25	9								
91	25	22					.5			
92	26	22	17.5		27 51	28.5	1.0			No Z record, P uncertain.
93	27	3			33.5		1.4			No Z record.
94	28	17					.5			Small preceding movement.
95	29	20					.5			
96*	30*	21	i 43 17	i 51 52	45.5	55 40			64	Baluchistan.
97	31	2					.6			
98	31	8			30 41	41.8				Japan.
99	31	17			31.0		.8			
100	June 1	4		48.9	53.6	55.5	1.1			S quite small, uncertain. Baluchistan.
101	2	9	26 47	35.2	29.0	30.4			62	Baluchistan.
102	5	12					.1			
103	6	6					.8			Faint.
104	7	5					.0			Small.
105	8	0						22		
106	8	1					.2			
107	8	4					5			Small.
108	8	23					.3			
109	9	7					.5			
110	11	22			17.6		.5			
111	12	2					.5			
112	14	22					.0			
113	16	6			38.7	48.0	1.3			
114	18	4						12		
115	18	18					.5			
116	18	22	41.3		51 38	52 13	1.4			P quite small, uncertain. PP 44 ^m 55 ^s .
117	19	10						48		[Pacific Ocean.
118	19	22			.6		1.1			
119	20	1						13		Small.
120	22	16			15		.8			
121*	24*	23	38.6		i 42 0	i 43 47				New Hebrides.
122	25	12					.5			
123	25	12	44 11	52 39			1.0			Kurile Islands.
124	27	17					.6			Germany. Small preceding
125	28	2			19.8		1.0			[movement.
126	28	19	9 28	19.0			.6			Japan. P and S quite small.
127	28	19			53 6		1.2			
128	29	1					.3			
129	29	7	i 0 3	9 12	2 41	9.9			70	SS 14 ^m . Mexico.
130	29	19			2		1.0			Faint.
131	30	0						39		
132	30	7						34		
133	30	8			27.8		.8			

No. 12.

— 5 —

1935.

Scoresby-Sund.

NOTES

- No. 46. April 19. 15^h. Mediterranean Sea. Possibly some depth of focus. Forerunners large; much oscillatory movement. *iP*, condensation. *e* 33^m9^s; *i* 33^m24^s; *i* 34^m13^s. *e* 35^m.8; 36^m.5. *S* 38^m11^s; *i* 38^m47^s very large. *e_N* 40^m.3; *i_E* 41^m29^s; *i_N* 41^m46^s. *L* not very large.
- No. 75. May 14. 23^h. Atlantic Ocean. Some depth of focus. *iP'_Z* 42^m5^s; *e_Z* 42^m.6. *e_N* 44^m.2. *e* 44^m50^s. *i* 45^m17^s and 46^m5^s rather large on *Z*. *e_{N,E}* 49^m.1. *e_E* 52^m.4. *e_N* 56^m43^s. *e_E* 61^m.5; *e_N* 62^m.2; *e_E* 63^m.9. *L* not large, the beginning uncertain.
- No. 88. May 24. 5^h. Philippines. Δ = ca. 95°. *E* record unreadable in parts. *P* small, but clearly marked. *e* 53^m.0; successive increase of movement. *SKS* 60^m.5; *PS* 62^m.6. *SS* 67^m.8, not clearly marked. *L* rather small, the beginning uncertain.
- No. 96. May 30. 21^h. Baluchistan. No *E* record. *iP_Z*, dilatation, followed by strong oscillatory movement. *PP_Z* 45^m.5. *e_Z* 47^m.9. *iS* 51^m52^s; *PS* 52^m.2 large, followed by large oscillations. *SS* 55^m40^s. *M* very large.
- No. 121. June 24. 23^h. New Hebrides; Δ = ca. 125°. *P* quite small. *iP'_Z* 42^m0^s; *iPP* 43^m47^s, followed by several rather large oscillations; *e_Z* 44^m17^s possibly another phase. *PPP* 47^m19^s. *SKS* 49^m.3. *SKKS* 50^m.6. *PS* 53^m.6, followed by rather large movement. *i_N* 57^m7^s; *i_Z* 59^m6^s; *e_N* 59^m.8. *iSS_E* 60^m 31^s. *L* not large.

Seismometric readings: Notation

- P* — normal first preliminary tremors, longitudinal waves.
- PP...* — longitudinal waves reflected at the earth's surface.
- S* — normal second preliminary tremors, transverse waves.
- SS...* — transverse waves reflected at the earth's surface.
- PS; PPS;...* — waves reflected at the earth's surface which travel partly as longitudinal, partly as transverse waves.
- SKS* — waves which traverse the mantle as transverse waves but are refracted through the core with longitudinal oscillation.
- PKS* — waves which pass the mantle on one side of the core as longitudinal waves, on the other side as transverse waves and are refracted through the core with longitudinal oscillation.
- SKKS* — waves which traverse the mantle as transverse waves, are refracted through the core with longitudinal vibration and are reflected on its inner boundary.
- L* — long, or surface, waves; main phase.
- M* — waves of greatest amplitude in the surface waves.
- i* — sharply defined beginning of a phase.
- e* — gradual beginning of a phase.
- Δ — arcual distance from the station to the epicentre.
- *) affixed to time of phase indicates that the beginning is in a time-mark.
- *) affixed to number and date refers to Notes.

Documentation preserved at the Geological Survey of Denmark and Greenland (GEUS) - KMS (Copenhagen),
reproduced on 2005 by SGA Storia Geofisica Ambiente (Bologna) on behalf of the Istituto Nazionale di
Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.
These data are considered public domain and may be freely distributed or copied for non-profit purposes
provided the project is properly quoted.

