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No. 3.

1929.

## Geodætisk Institut

Proviantgaarden, Copenhagen, Denmark.

### Bulletin

of the seismological station

# SCORESBYSUND

 $\varphi = 70^{\circ}29' \text{ N.} \quad \lambda = 21^{\circ}57' \text{ W.} \quad h = 69 \text{ m.}$ 

Lithologic foundation: Gneiss.

No. 3. Jan.—June 1929.

Instruments:

Galitzin pendulums with galvanometric registration.

Constants:

Component	ı	$T_1$	$A_1$	738 IS	T	k
	cm	sec	em		sec	
N	12.0	12.4	100	until 10/6	11	75
				from 10/8	$12^{1/2}$	90
E	12.0	11.9	100	until 2/3	, 10	65
				2/3-27/6	$11^{1/2}$	70
ICO to see \$				from 27/6	12	85
$\boldsymbol{z}$	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<sup>s</sup> to 6<sup>s</sup>.

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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P. Contract	of the same						coresby-	Sulla.			
	Vo.	Date	Hour			ınners		L	Un- defin <b>e</b> d	Δ	Remarks
	1 270			Р	S						
1622		1929		m s	m s	h m s	m s	h m	h m	0	
		Jan.			ođo i črtana g		111 3				
16.	1	6	17	Thomas Art 1865	dwint loan	55 55					Near earthquake.
	2	6 8	8		Julia - Julia	5 10			20		Felt in Iceland.
	4	8	9		3.30 km 2				29 33		
	5*	13*	0	i 13 3	i 21 4	15.5	i 25 0		33	58	Kurile Islands.
	6	13	16	210		10.0	120	36	BILL IC	50	Recording interrupted until 16 <sup>h</sup> 36 <sup>m</sup> .
	7	13	19					24			
	8	14	3						.1		
	9	14	18				-C 2072 AF 95	.4		yerra.	
	10*	16*	8			22.3	29.5	.8			
	11*	17*	11	56.6	64 11					55	
	12	19	3		.003	90 = A .	Wittering a	= £ .30 %	57		
	13	20	15			.3		of carries			
	14	21	6	10.2	: 10 10	44.0		.2		<b>FO</b>	A 1 - 1 - D C - :
	15 16	21 22	10 15	40.2	i 48 12	44.9			.4	58	Alaska. P faint.
	17*	24*	20	47 58	56.9	50.8	62.4		•4	67	Central America.
	18	25	2	17 00	00.5	00.0	02.1	.1		07	Central America.
	19	26	3					.1			
e) e	20	26	15					.0			
	21	28	22					.7			
	22	30	17			21.7		.8			
	23	31	18			.5		.7	.coitentai	gen oim	informating differ amendulating airbital
		Febr.						From the state of the purpose of the state o	Macrosom on the state of the area of a		
	24*	1*	17	i 23 52	31 32	01 05				770	Zéravchan. Deep focus.
	25* 26	2*	0	11.9	21 9	21 37		.5		70	Atlantic Ocean.
The second	20 27	3	3 18		1.1	202 234		.5 .7	EL C.F.		
	28	4	7						.2		
	29	4	11	100		The state of	001	1.0	0.21		The state of the s
	30	5	4		• 11			.3			
	31	6	7	38	St.	7 24					Sea of Okhotsk.
	32	8	2			31	001	.7	1.31		
	33	10	4	Commence of the second second				.3			
	34*	10*	15	50.6	59.6	53.4	60.0		·但实现的第一句句		Central America.
	35	10	17			40 00	S mode	.7	7 and te		
100	36 37	13	22 8	ai denit ba	s elempie-ec	nit officenise	spicele to	.9	vitab ba		Some proceding more and
	38	15 17	21					.6	.4		Some preceding movement.
1000	39*	22*	20	52 6	60 22	61 37	61 58			60	Atlantic Ocean.
21.27	40*	26*	9	i 9 59	17.4	0. 0.		.4		53	Alaska.
	41	27	20					1			
		March									
	42	1	7		47.0	42.6	50.5	55			Alaska.
	43	1	9			12.2		20			
	44	1	16					.3			
	45	1	19 21			in the second		.5			
	46	1	<b>41</b>		•			6			

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No. 3.

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1929.

	Scoresby-Sund.											
No.	Date Hour			Forerunners					L	Un- defined		Remarks
			P	S						delined		
	1929 March		m s	m	s	h m s	m	s	h m	h m	0	
47	3	3								.4		
48	3	9					10.		.4			
49 50	3	16 18							.7			
51	5	16							.6			
52*	7*	2017	i 44 25	52	17						57	Aleutian Islands.
53	9 9*	2	24.4			34.7 10.4	35.0 15.2		.9			Bonin Islands region.  New Zealand region.
54 <b>*</b> 55	10	11 0				10.4	10.2		.9			
56*	10*	14				51 53	57	40				Marianne Islands.
57	10	23				4	0.00		.3			
58 59	11	13					4		.0			
60	13	11								19		
61	14	23							0.			
62	15 15	13 18				11.6			.9	8.56		
64	16	6	.0387						.9	T.84	5 1	Faint.
65	18	2							1.0	12		
66	18	23	LESISI DAN			41.6			1.0		uvir a la	
67 68*	19 19*	10 21	5 4							3,26		Central America.
69	20	21				39.6	To a		.9			
70*			48 20	58	1	62					74	Central America.
71 72	23 26	20 5				34			.9	30		
73	27	22	annia O w				2.1		27	Q.,		
74	28	3					9.		.8			
75	28	20				.7			1.2	5.64		
76	30	16							.8			
78	- 31	6			,	g	0		.3 '	,		Faint preceding movement.
79	31	20		38	8				.9			
	April											
80	2	4					Ö.		.1			31 851
81	5	9	monibi s		EA				.2	0.14		
82 83	6	0	British Alberta				8.		.0 56			
84	6	4				15.6	2.1		21		6.	TE I ETT   DE   IS.   SEE
85	6	5								13	70	
86	7	19	43.5	52	48	i 39 17	40	16	1.1		70	Faint preceding movement.
87	8 9	3		103	2.7	109 11	10	10	.3	4 51		SE OF SE POSE SE POSE
89	9	4				21	T.		.9			Ball 35   TEl
90	9	6							0.			
91 92	10	10					G,		.0	0h		1 75 75 041
93	10	18					ð.		.5		6.	
94	13	7					(5.)	1	.9			

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						Scor	soby.	Sund.				
No	No. Date Ho			Forerunners				L Un-			Remarks	
110.	Date	Hour	Р	S					defined			
	1929 April		m s	m s	h m s	m	S	h m	h m	0		
95	13	21							.6			
96	16	15						.0				
97	17	3				G <sub>E</sub>		.6				
98	19	21						17				
99	20	1						.4				
100	21	12						53			Recording interrupted until 12h53m.	
101	22	8				n		.7				
102	23	1	analas X an						8			
103	27	12			2	0		.3				
104	27	21	de amme int		38			1.1				
105	28	5						.7				
106	29	18						.9				
107	30	19			13	0		.6				
	May					0						
108	1	0						.3				
109	1	7			55.8	63	.3	1.4	W. 1 (		ar lar lar	
110*	1*	15	46 40	54 2	48.7					50	Persia.	
111	1	22			26.8							
112	2	14	36 37	45.2		0.1		.9	h,14	60	Kurile Islands.	
113	3	9				0.		.2				
114	3	16	omA Istor		36.6			.8				
115	4	4				E.		.3	11 435			
116	4	6	roma, lagras	0 1 1				.9	50		a los se lo les leor	
117	6	5			28 2	3 37	.7	1.0	4.5		New Guinea.	
118	7	9			08			.8				
119	7	16			.9	and a		1.4			New Guinea.	
120	10	13				<i>A</i> .		.0				
121	11	19						.6	* **			
122	12	9			46.2			1.2				
123	12	20		1 1	7	8.		13			THE PROPERTY OF THE PARTY.	
124	13	vin7 gr	ibecome to			£		.0			La L	
125	13	10				0.		.1		8 8	E   00   18   47	
126	13	13		43.7							Persia. Preceding movement	
127	17	0						.6			disturbed.	
128	18	1				1.		.5		<b>1</b>		
129*	18*	6	46 0	i 52 22	47.6	\$,55	.1			43	Asia Minor.	
130*	20*	5	2 40	10.7	6.3	0.				56	Aleutian Islands.	
131	21	2						.9				
132	21	16	47.3	57.6		* *		1.2	0.81		Japan.	
133	22	20			.5			1.3				
134	24	19		CV I		. 1. 1		.3		2,4.		
135	25	4	inepoend in	8"				.4			Dem	
136	25	12	12 10	22 21	12 4	6 23	.4	_		74	Peru.	
137	26	9			1.8	* 3) - Q,		.7	5			
138	26	20	40.7			0			.0		Davida Oscar	
139*	26*	22	48.7	55 47	50 5	2 58	0.7				Pacific Ocean.	
140	27	5		100	46	0.		.9		60	M 1 01 1 56	
141	28	0	7 23	16.8				.6		68	Faint preceding movement	
142	28	5			1	College College		.8	A Charle Continues		Faint preceding movement.	

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1929.

	Scoresby-Suna.										
No.	Date	Hour			inners		L	Un- defined		Remarks	
143 144 145 146 147 148 149* 150* 151 152 153 154 155 156 157 158 159 160 161 162* 163 164 165 166 167 168 169	1929 May 28 29 30 31 June 1 1 2* 3* 4 4 4 5 6 6 6 7 8 9 9 9 9 9 9 9 9 9 10* * 12* 12* 12* 12* 12* 12* 12* 12* 12*	18 5 9 0 0 9 18 21 20 7 15 9 11 14 16 1 18 1 7 8 9 23 0 23 12 15 0 9	P  m s  10.8 i 49 40 38 44  29 5 1 38  i 22 50 38 16	Forerus S		m s 72.1 49.7 39 4	h m .5 .3 1.5 .7	defined  h m  18	68 68 10	Argentine. Faint preceding movement.  Turkestan. Philippine Islands. Atlantic Ocean.  Faint.  Kurile Islands. Arctic Sea. Pacific Ocean.  Kurile Islands. Mindanao region.	
169 170 171 172 173 174 175 176 177 178 180 180 180 180 180 180 180 180 180 18	13       13       13       14       14       15       15       15       15       15       15       15       15       15       16       16       17       3       17       3       17       18       19       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       21       22       23       24       25       26       27       28       20       20       21       22       23       24       25	20 23 6 23 2 9 17 19 21 15 22 3 10 14 2 3 10 14 2 3 10 14 2 15 15 10 11 15 10 11 10 11 11 11 11 11 11 11 11 11 11	30.3		.1 18.1 .6 .3 53 .5 .5 .5 .7.1 40 4	i 7		.7			

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No. 3.

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1929:

	Scoresby-Sund.										
No.	No. Date Ho				unners		L	Un- defined		Remarks	
			P	S							
191 192 193 194	1929 June 21 22 22 22	5 16 18 22	m s	m s	h m s 5.1 59.1	m s 5.8	h m .7 .7	h m	0	Mindanao region. Recording interrupted until 16 <sup>h</sup> 29 <sup>m</sup> . New Zealand.	
195 196 197 198 199	23 23 23 24 25	4 7 22 18 5			11 29 49	12.3	.1 .3 .8 1.1 .0			Mindanao region.	
200 201 202 203	25 26 26 26	7 6 17 17	39 19 0 46	47.3 10.2	42.8		.0 1.0 .4 .9		58 72	Aleutian Islands. Japan.	
204* 205 206*	27* 27 27*	13 22 22	2 55 40.4	i 41 25	.2	8 6	.7 .5			South Sandwich Islands.	
207 208 209 210	28 28 30 30	2 2 5	58 28		62.4	69.9	1.2			Mindanao region.	

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No. 3.

1929.

#### NOTES

- No. 5. Jan. 13. 0h. Kurile Islands. Large earthquake. No Z record. First forerunners large on N; iPPP, 15m53s, followed by large oscillations. S exceptionally large on E, followed by large movement, possibly other phases. i<sub>E</sub> 27m45s followed by very large movement, largest maxima in the record. L of long duration.
- No. 10. Jan. 16. 8h. Philippine Islands. Additional readings: 30m22s; SS 36m.0.
- No. 11. Jan. 17. 11h. Venezuela. No Z record. P quite small. S clearly marked on N. From S the movement has the appearance of L waves.
- No. 17. Jan. 24. 20<sup>h</sup>. Central America. P, PP and PPP, 52<sup>m</sup>40<sup>s</sup>, clearly marked on E, quite small on N. S small, not clearly marked, read on E; following movement larger. SS and SSS, 65<sup>m</sup>, large groups of oscillations. The beginning of L uncertain; M large, regular. There may be an error of some seconds in time-determination, since the rate of the clock has changed abruptly.
- No. 24. Febr. 1. 17<sup>h</sup>. Zéravchan;  $\triangle = c. 54^{\circ}$ . Deep focus (depth c. 200 km.). Strong movement follows P. On Z, pP 24<sup>m</sup>46<sup>s</sup> and sS 25<sup>m</sup>8<sup>s</sup> clearly marked. S; isS 32<sup>m</sup>53<sup>s</sup>; 34<sup>m</sup>.9 clearly marked on N. 37<sup>m</sup>.0 begins a group of very large oscillations. L small, irregular.
- No. 25. Febr. 2. 0h. Atlantic Ocean. The beginning of P quite small, the reading uncertain; increasing movement without clearly marked phases. S read on E; no corresponding movement on N; 21<sup>m</sup>37<sup>s</sup> clearly marked on N and E. After S continued strong movement without clearly marked phases.
- No. 34. Febr. 10. 15<sup>h</sup>. Central America. Phases not clearly marked. P quite small, the beginning possibly earlier than read. SS 64<sup>m</sup>.2. The beginning of L uncertain; some regular M groups.
- No. 39. Febr. 22. 20h. Atlantic Ocean. The beginning of P not quite certain. S large and well defined; in following movement distinct onsets. 67m.5 large oscillations (iL?), immediately followed by a few M groups.
- No. 40. Febr. 26. 9h. Alaska. iPz possibly preceded by small movement. S not clearly marked.
- No. 52. March 7. 1<sup>h</sup>. Aleutian Islands. Very strong record. P very large, followed by large movement. S very large, earliest on N, possibly  $52^{\rm m}11^{\rm s}$ , but not quite certain owing to strong preceding movement;  $S_E$   $52^{\rm m}21^{\rm s}$ . Following movement very strong. M very large.
- No. 54. March 9. 11<sup>h</sup>. New Zealand region. Increasing movement without clearly marked phases. L begins about 11<sup>h</sup>.9—12<sup>h</sup>.0. Some regular M groups about 20 min. later.
- No. 56. March 10. 14<sup>h</sup>. Marianne Islands. Faint movement on Z 47<sup>m</sup>.5, possibly P. PP 51<sup>m</sup>53<sup>s</sup>. Distinct pulses 57<sup>m</sup>40<sup>s</sup>; 58<sup>m</sup>7<sup>s</sup>.

  L faint, the beginning uncertain.
- No. 68. March 19. 21h. Central America. The beginnings of later phases not clearly marked.
- No. 70. March 21. 2h. Central America. No Z record; N disturbed. The beginning of L uncertain.
- No. 110. May 1. 15<sup>h</sup>. Persia. Strong record. *iP* 46<sup>m</sup>41<sup>s</sup>, followed by strong movement. *PPP* 49<sup>m</sup>.7. On N, S clearly defined, *i* 54<sup>m</sup>2<sup>s</sup>; on E some increase of movement 53<sup>m</sup>52<sup>s</sup>; large movement begins *i* 54<sup>m</sup>13<sup>s</sup>. *i*<sub>N</sub> 58<sup>m</sup>.5 followed by very large movement.
- No. 129. May 18. 6h. Asia Minor. No Z record. P quite small, most clearly marked on E. PP larger. S large, clearly marked on N and E. SS large on N, hardly marked on E. On N strong movement continues into L, the beginning of which is uncertain.
- No. 130. May 20. 5h. Aleutian Islands. P small but distinct on Z. S small, not well defined. The beginning of L uncertain.
- No. 139. May 26. 22<sup>h</sup>. Pacific Ocean near Alaska. The beginning of P quite small, not clearly marked, followed by larger movement; e 48<sup>m</sup>52<sup>s</sup>. S large, read on N, begins later on E. SS immediately followed by movement of large amplitude and periods of about 1 min. Later M very large.
- No. 149. June 2. 21<sup>h</sup>. Two earthquakes, Japan Sea and Pacific Ocean according to URSS. No N record. iP 49<sup>m</sup>40<sup>s</sup>, well defined on Z, and iS 58<sup>m</sup>48<sup>s</sup>, sharp and large on E, seem to belong to the first earthquake; 61<sup>m</sup>8<sup>s</sup> possibly S of the second.
- No. 150. June 3. 20h. Turkestan. No E record. S quite small, the beginning uncertain, about 45m.9.
- No. 162. June 9. 9h. Kurile Islands. E record only. P small, the beginning not quite certain. L early, clearly marked.
- No. 165. June 10. 23h. Arctic Sea. P (dilatation) unusually large, marked by 3 large oscillations of period of about 16 sec. S large; iS read on N; on E earlier increase of movement, later large movement continued in large L group, iL 8<sup>m</sup>28<sup>s</sup>. On N, L clearly separated from S; i L<sub>N</sub> 9<sup>m</sup>4<sup>s</sup>. Regular M groups, period 10—12 sec.
- No. 166. June 12. 12h. Pacific Ocean. Distinct later phases, but beginnings not clearly marked.
- No. 168. June 13. 0h. Kurile Islands.  $e_Z$  24<sup>m</sup>49<sup>s</sup> seems to be P of a second shock; the corresponding S not clearly marked. i 36<sup>m</sup>23<sup>s</sup>, P of a third, stronger shock; S 45<sup>m</sup>1<sup>s</sup>.
- No. 169. June 13. 9h. Mindanao region. The beginning of P small, the reading not quite certain. PP well marked.  $S_c P_c S$  and later phases,  $50^{\rm m}.3$ ;  $51^{\rm m}8^{\rm s}$ ;  $56^{\rm m}.4$ , well defined on N. L earliest on E.

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No. 3. — 8 — 1929.

#### Scoresby-Sund.

#### NOTES

No. 177. June 15. 19h. Mindanao region. Additional readings:  $60^{\rm m}28^{\rm s}$ ;  $77^{\rm m}$ .1.

No. 181. June 16. 23h. New Zealand.  $\triangle = 150^{\circ}$ . Several well marked phases, especially on N. PP  $10^{\rm m}55^{\rm s}$ ;  $14^{\rm m}6^{\rm s}$ ;  $i_N$   $15^{\rm m}33^{\rm s}$ , a strong phase, on N only;  $20^{\rm m}.4$ ;  $25^{\rm m}.6$ ;  $27^{\rm m}.6$ ; SS  $30^{\rm m}.3$ ;  $31^{\rm m}.4$ . M large, regular.

No. 204. June 27. 13h. South Sandwich Islands. P small; P' larger. Phases most clearly marked on N, but no time-marks; largest phases about 9m.6; 17m; 24m; 28m. On E 12m48s; 15m.0. Large, regular M.

No. 206. June 27.  $22^{\rm h}$ .  $\triangle = {\rm c.} 500$  km. P begins quite faintly, increases without distinct pulse; continued oscillations of about 10 sec. period.  $i_N 41^{\rm m}25^{\rm s}$ ;  $e_E 41^{\rm m}.5$ ; movement increases into regular M group of period of about 10 sec.

No. 30 Peter. 22. 209 Atlante October. The perinting of Who green statement in this feet of the properties.

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