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No. 4.

1929.

Geodætisk Institut

Proviantgaarden, Copenhagen, Denmark.

Bulletin

of the seismological station

SCORESBYSUND

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

Lithologic foundation: Gneiss.

No. 4. July-Dec. 1929.

Instruments:

Galitzin pendulums with galvanometric registration.

Constants:

Component	l	T_1	A_1		μ^2	T	k
N	cm 12.0	sec 12.4	100	1/712/10	0.06	sec 12.3	87
E	12.0	11.9	100	$^{12}/_{10}$ $^{-31}/_{12}$ $^{1}/_{7}$ $^{-26}/_{10}$	Y	11.7 12.3	77 84
\boldsymbol{z}	14.1	10.1	100	26/10-31/12		11.8	76

The damping of E has been somewhat varying but nearly aperiodic.

Z has not been very stable; the period has been about 5 sec.

Time-corrections have been determined daily by means of Nauen scientific time-signals and time is known with an accuracy of about 1/2 sec.

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No. 4.

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1929.

-	Scoresby-Sund.										
No.	Date	Hour		Forer	unners		L	Un-		Domonles	
			P	S				defined		Remarks	
	1929		m s	m s	h m s	m c	h m		0		
1	July	0		""		m s	h m	h m			
2	2	2			.9	62.3	1.5				
3	3	1	0 58	7.3	3.1	10.9	.9		43	Alaska.	
4	3	2					.8		10	Maska.	
5	3	8						.8			
6 7	3	18 21			22.8		.8				
8*	4*	4	36 17	42.3	37.8	45		.1	40		
9*	4*	7	18 7	21.2	01.0	10			40	Alaska.	
10*	4*	7									
11*	4*	8	0 25	3.4							
12	5*	9 14	i 28 52	36 47	.8	40.5	1.2				
14*		22	46 5	36 47 54.1	31.2 48.3	40.5 58.3			57	Aleutian Islands.	
15	6	2	13 38	21.7	25.7	0.00			58	Pacific Ocean. S uncertain.	
16*	6*	9	56 14	i 64 19	68.1				59	Atlantic Ocean.	
17	6	14					.3				
18 19	7	3 6			20		.3				
20	7	9			29 37.0		.7				
21*	7*	21	i 32 59	40 57	35.4	44.8	1.0		57	Alongian Islanda	
22	8	2			14.5		.6		01	Aleutian Islands.	
23	8	10					.6				
24 25	8	17					.3			Some preceding movement.	
26	8	19			4		.8			» » »	
27	9	1			.4		.6				
28	9	5		ks.	55		1.7				
29	9	8			.9		1.1				
30	9	17 15			48		1.3				
31 32	10	16					.2				
33	11	1					.8				
34	11	13		na - Caral - Francisco de la casa	54	No and Secret Secretaria 24.	1.0				
35	11	21	6 52	15	10.4	19	.4	*		Aleutian Islands.	
36	12 12	16 18	2.5	8 38	4 0		15		41	Alaska.	
37 38	12	23	11.5	21.6	200		.7	10			
39	13	5					.8	40		Faint. Faint.	
40	13	7			.8		1.0			Taillt.	
41	13	15			10.3		:7				
42 43	14	6					.8			Some preceding movement.	
43	14	8 9			10.4		.6				
45*	14*	9	47 4	55 28	18.4 50 55				62	See of Olchotol-	
46*	15*	7	53 37	61 13	55.6	64 52	1.2		54	Sea of Okhotsk. Persia.	
47	15	10					.3			In preceding shock.	
48 49	16	20					.9			Faint preceding movement.	
50*	17*	20 8	i 47 54	55 48	51.2	60.2	.2				
				70	01.2	00.2			57	Pacific Ocean.	

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No. 4.

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1929.

Sco	re	sb	v-	Si	un	d.
	TC	SN	J			

	Scoresby-Sund.										
No	No. Date Hour			Foreru	nners		L	Un- defined		Remarks	
	Dail		P	S				delinea	-2		
51 52 53	1929 July 17 18 20	20 7 12	m s	m s	h m s	m s	h m 1.0 .3 .0	h m	0	Possibly 2 earthquakes. Small preceding movement.	
54 55 56 57* 58 59 60 61	21 21 23 23* 23 23 23 24	10 13 15 18 20 21 21 21	44 48	45 56 7 23	47.2 40.2		1.1 1.1 .8 .8	2		Faint preceding movement. Iceland. Repetition.	
62 63 64 65 66 67 68 69 70 71	24 25 25 25 26 26 27 30 30	19 0 13 15 23 18 22 13 4 7	18 30 9 52 59 46 5 3 55.0	27.0 69 16 14.2 64.0	33.9 20.3 62.6 12.1	69.9	.1 .7 .0 1.4 .3 .5 1.3		63 72 69	Atlantic Ocean. Japan. P and S small, uncertain.	
72 73 74 75 76 77 78 79 80	Aug. 1 1 3 3 3 4 4 4 4	5 8 13 15 18 21 9 15 22	14 41	63 17	24 57 35.1 10.0 15.9	25 14	1.4 .8 .9 1.3 27 28 1.4 1.3	.9	57	Aleutian Islands.	
81 82* 83 84 85 86 87 88 88 89	6 6 7 7 8	13 18 7 20 13 3	31 27	19 37	12.6	24.6	.3 .6 .9	23	79	Jan Mayen. Burma. Faint.	
90 91 92 93 94 95 96 97 98	12 13 13 14 14 14	20 19 20 2 6 15			28.8 31 37.5		1.3 .9 .9 1.3 5	43 46 7 .8		Possibly 2 earthquakes.	

No. 4.

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1929.

No. Date Hour Forerunners Date Hour S Forerunners L Undefined	
defined	
	Remarks
1929 ms ms ms hm hm o	
Aug.	
99 15 15 15 16 100 15 20 8 9 17 45 73 Central A	America
100 15 20 8 9 17 45 101 16 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	America.
102 16 21 48 58 1.3	
103 16 23 31 48	
104 17 8 Faint.	
105 17 23 52 2 61 20 56.3 59.8 1.3 70 Central A	America.
106 18 6	1 02 1 35 1 36 1
107 18 8 1.5	
	ou Islands region.
109 19 11 .6	
110 19 17 59.1 1.2 1.2 China Sa	
111 19 20 56 50 67.1 1.5 81 China Section 1.5 82 Riou Kic	
112 20 16 50 41 60.9 113 21 10 .0 113 21 10 10 .0	ou Islands.
113 21 10 114 22 17 .6	
115* 27* 23	
116* 28* 5	
117* 28* 5	
118* 28* 15	5 1 4 1 00 1 00
119* 28* 15	BELLET DELT IT
120* 28* 15	
121 28 19 2.8 12.0 5.4 Japan.	
122* 28* 22	
123 29 6 Faint.	
124 29 18 34 Friend Trains and	anding morroment
	eceding movement.
126* 29* 23 127 30 7 34.7 1.0	
127 30 1.0 128 31 19 39.7 .9 .9	
Sept.	1 55 1 68
	inning disturbed.
	ginning 31 ^m .
131 3 12 18.1 26 34 33.6 .7 62 Persia.	
132 4 9	1 81 1 8 1 88
133 4 22 .9	
134 5 10 .6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
135 5 14 136 8 8 Small m	ovement lasts c. 1/2 min.
136 8 8 32 Small m 137 8 11 18 18	Ovement lasts C. /2 IIIIII.
137 8 11 18 18 18 18 18 18 18 18 18 18 18 1	
139 9 4 .5	
140 10 20 1.4	
141 10 22 .5	
142 11 22 Formosa.	94 13 20
143 14 3	Sien les Hill 30
144 14 13 27.9 .6	
145 17 5 . 1.2	
146 17 13 .3	

No. 4.

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1929.

	Scoresby-Sund.										
No.	Date	Hour		Forer	unners		01	L	Un-	970-1	Remarks
	Date	Hour	P	S	Januarok.				defined		TC MATES
	1929	我 。我能					as I		la sa	0	
1.45 *	Sept.		m s	m s	h m s	m	S	h m	h m		L sed
147* 148	17* 21	19 17			33.6	36.9		.7	0		Pacific Ocean.
149	22	13							.4		
150	26	16						.3	0.88		
151	27	23	Atembras la		36			50		per a	Strong microseisms.
	\$3.5	434.3	arge and r						22		
152	Oct.	9	ibsoog Abi		0			1.4			
153	2	17			.8			1.4	38		
154	5	3			.5			.9			
155*	5*	17	9 36	i 17 27	e reched di			.5	PP seeds	57	Kamtchatka.
156	6	6	Seans inc		27.9		S lar	.7	that we	g History	mache inche. SAS, 47° N. and Prinser.
157*	6 *	8	4.1	14 32	20.0	23.9		.5			Pacific Ocean.
158 159	6	14 16						.6			
160	8	17			37 48	38	49	.3		39 78883	N record only.
161	14	10	19 16	27.0	30.5		× 446	.6		56),),),
162	14	20	Partie 7		reserva.			.6	de begin		
163	16	20	Participations.		48 59	54.0		1.1			Burma. Possibly another shock
164 165*	18 19*	10	26 5		26 50	27.0		.5			Chile superposed.
166	19	10 20	26.5		36 50 44 51	37.8					Chile.
167	20	16						.6			
168	21	11						.5			post on a size in the king problem wi
169	24	7	eren Trom.				regit!	.3			
	Nierr										
170	Nov.	7			5 38			.2			Rumania.
171	4	16						.6			
172	5	12					W	.5		7 654	Faint preceding movement.
173	8	4						.0			
174	9	2			ger and by	5577		.2	28	Assess. A	Some preceding movement. Strong Near earthquake. [microseisms.
175 176	13	12					- Seutine	7	28		Mear Carmquake. [microseisms.
177*	15*	19			8 30	15	4	.6			Caroline Islands.
178	16	11						.5		Faresti gri	one on the balls of the
179*	17*	4	er il eleme		1.2	8	2	, test nee	THE STATE OF	MACHINE.	Mindanao region.
180	18*	6	20 10		43 23			.7		e'	New Foundland.
181* 182*	23*	20	38 19		43 23 21.3	28	15	1.0			New Guinea.
183	27	8						.3			
	15363				et after h					temiser	Large conductable of in the residence has
	Dec.	dak Kantala									
184	6	12		l in andre i	2		10.1 1	.5			Strong microspiems
185 186	6	17 21			.2			.7			Strong microseisms. Very strong microseisms.
187	9	7			.2						" " "
188	13	5			1.6	tides con		8			many for sizeing discreased which met consti-
189	13	9			tuin 3 tui	Tarris 19		.5	Car.		
190	14	22							32		

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No. 4.

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1929.

No.	Data	LI A.	Forerunners					Un-		
140.	Date	Hour	P	S			L	defined		Remarks
191 192*	1929 Dec. 15 17*	11	m s 8 16	m s 16 8	h m s	m s	h m	h m 40	0	
193 194 195 196	17 17 18 18	18 21 5 7			58.0		.2 .4 .5 .7			Small preceding movement.
197 198 199 200	18 24 30 31	13 5 12 1			27.3	36.1	.5 .8 .1			Small preceding movement.
201	31	5			21.3	30.1	.8			
			Eno biscori							
				+						
			Blackers							
			BECOME TO							

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No. 4.

1929.

Scoresby-Sund.

NOTES

- No. 8. July 4. 4h. Alaska. P small, PP larger. S quite small on E, larger but not very clearly marked on N. After SS movement continues into L, which is irregular.
- Nos. 9-11. July 4. 7h, 8h. 3 records of similar appearance, probably earthquakes from one and the same origin. The first shock the strongest, but P and S quite small, their readings not certain. The beginning of L uncertain; a regular M group. The second, smallest, shock about 17 min. after the first one, P and S not distinguishable. P and S of the third shock small, uncertain.
- No. 13. July 5. 14^h. Aleutian Islands. Strong record, phases clearly marked. PP small, PPP 32^m25^s much larger, and larger than P. SSS 43^m.3 large and clearly marked on N. M large.
- No. 14. July 5. 22^h. Pacific Ocean. PPP 49^m.6 larger than P and PP. S quite small, uncertain, followed by larger movement, which on N begins by a clearly marked pulse 54^m36^s, possibly PS. 56^m.0 a clearly marked phase.
- No. 16. July 6. 9h. Atlantic Ocean. First forerunners quite small. From about 70m some waves of long period and large amplitude; following L small.
- No. 21. July 7. 21^h. Aleutian Islands. Large record, clearly marked phases. PP small. PPP 36^m.4, larger than P and PP. A distinct phase 38^m.9. Some increase of movement before S. PS large, 41^m28^s; following movement large. SSS, 47^m.4, and following movement very large. Very large M.
- No. 45. July 14. 9^h. Sea of Okhotsk. No E record. Phases clearly marked. P increases 47^m15^s. PPP about as large as P. After S, movement of long period; the beginning of L uncertain. 10^h16^m.3 a clearly marked phase on Z, possibly P of another shock, but other phases not distinguishable.
- No. 46. July 15. 7h. Persia. Clearly marked phases. On N, a well defined phase $63^{\rm m}24^{\rm s}$, possibly $\overline{S_cP_cS}$. L regular, not large.
- No. 50. July 17. 8h. Pacific Ocean. No Z record. No PP but large PPP. The beginning of S small. $57^{\rm m}$.7 possibly $\overline{S_cP_cS}$. $62^{\rm m}$.4 SSS or the beginning of L.
- No. 57. July 23. 18h. Iceland. No N record. P begins quite faintly, possibly a few seconds earlier than read; from $44^{\rm m}57^{\rm s}$ stronger movement of short period superposed on long period movement. $45^{\rm m}56^{\rm s}$ a pulse on E, read for S. i_E $46^{\rm m}7^{\rm s}$, immediately followed by very large M. e_Z $46^{\rm m}7^{\rm s}$; M_Z begin about $^{1/2}$ min. later.
- No. 82. Aug. 6. 1^h. Near earthquake; Jan Mayen according to *URSS*. The beginning of *P* not very clearly marked, followed by oscillations of period of about 10 sec., large on *E. e_N* 32^m23^s; large *M* groups begin on *N* 32^m.8. On *E*, irregular not large movement from about 32^m.5; small *M* groups begin about 33^m.4, a large *M* group about 34^m.7. In *M* period of about 8 sec.
- Nos. 115-120, 122. Aug. 27, 28. Small wave-groups, all very much alike but of different strength. They all begin quite faintly, earliest on E; N records on the whole stronger. The first group begins on E 28^m21^s with waves of period of about 10 sec.; from about 29^m.3 smaller movement with waves of short period superposed; from about 30^m.0 larger waves of period of 6—7 sec. N begins 28^m.8 with somewhat irregular waves; from about 29^m.7 quite regular waves of period of 6—7 sec. Small Z records of first 2 groups only.
- No. 126. Aug. 29. 23^h . Group of waves, larger and of a somewhat different type from nos. 115—120. The beginning more definite, and simultaneous on N and E, 35^m .6. No Z record.
- No. 147. Sept. 17. 19h. Pacific Ocean. No Z record. Very strong microseisms. Some movement previous to first phase read. $e_N 33^{\rm m}45^{\rm s}$. Large M.
- No. 155. Oct. 5. 17h. Kamtchatka. P clearly marked on N and Z; PP and PPP distinct phases on N, but beginning not clearly marked. After S, about 19m.0, another phase. SR visible, but not clearly marked. On N, some large regular waves in first part of L.
- No. 157. Oct. 6. 8h. Pacific Ocean. No Z record; some microseismic movement; the reading of P not certain. PR quite small.
- No. 165. Oct. 19. 10^h. Chile. No Z record; some microseismic movement; the beginning of P faint, possibly earlier than read. PP 29^m.9, not large. 37^m.8 on N only; followed by large movement of long period. e_E 38^m.6. SS 43^m.3. Rather strong movement of long period continues after S. In first part of L somewhat irregular large oscillations of long period; later L not large.
- No. 177. Nov. 15. 19h. Caroline Islands; $\triangle = \text{ca. } 100^{\circ}$. P possibly 4m.3, quite faint. PP = 8m30s. On N, following phases very clearly marked: $\overline{S_cP_cS} = 15\text{m}4\text{s}$; PS = 17m35s; SS = 23m.2. $e_E = 15\text{m}.7$ possibly $\overline{S_cP_cP_cS}$.
- No. 179. Nov. 17. 4^{h} . Mindanao region. $\overline{S_c P_c S}$ $8^{\text{m}}2^{\text{s}}$ very clearly marked on N and E. Followed by irregular movement without clearly marked phases.
- No. 181. Nov. 18. $20^{\rm h}$. New Foundland. N and E records quite unreadable owing to exceptionally strong microseismic movement. The beginning of P not quite certain. Z stopped working at about $47^{\rm m}$.

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No. 4. — 8 — — 1929.

Scoresby-Sund.

NOTES

No. 182. Nov. 23. 0h. New Guinea; $\triangle = \text{ca. } 110^{\circ}$. Additional readings: PS $30^{\text{m}}43^{\text{s}}$; SS $36^{\text{m}}.6$.

No. 192. Dec. 17. 11^h. Between Kamtchatka and Aleutian Islands according to Strasbourg. Very strong record. On Z, P seems to begin quite faintly 8^m16^s, increases 8^m23^s and again i 8^m38^s. The reading of S not quite certain owing to the difficulty of disentangling the traces of the different lines; later phases unreadable.

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No. 20 Aug. C. 15 None corresponded from appearating to URSE. The beginning of F not very clearly regularized on a confidence of February and E. 10 and E. 1

division fig. 112. Ale 122, Ale 22, 18. Small ward-groups, all very much aithe test of different successin liney all begin coine faintly

hand the test are are a warren and of a sometime different type from not. Its -120. The frequency mare definited

These shall be established for the first of a medical period and sense and the first product of the first place and

here is the fire, Kameronnia. Pf clearly marked fon N and E. P. and P.P. distinct phases on A, but beginning not clearly

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ther mad religion with the thing of the some microscientic movement; the beginning of Plaint, passibly entite than read.

April 1777 Mor. 15. 198, Caroline Islander & - co. 100°. P possibly 48.2. quite faint. PP swape. On N. Johnston & presses very

Note 170. To the first transfer and again and against the first transfer that the first transfer and and the first transfer transfer and and the first transfer trans

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