GEODÆTISK INSTITUT

Copenhagen, Denmark.

Bulletin of the Seismological Station

IVIGTUT

 Φ = 61° 12' N. Λ = 48° 11' W. h = 20 m.

Lithologic Foundation: Gneiss.

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

Constants (Mean Values):

Component				T	v	r	V
				sec.		mm	
N	from	18/11	29	12.3	2.6	0.6	150
E	from	18/11	29	12.4	4.4	1.3	200
Z				5.3	4.4	0.1	180

The seismological station IVIGTUT in south-Western Greenland was erected by the Geodetic Institute of Copenhagen. Valuable assistance was rendered by the Kryolith Mine- og Handelsselskab.

The station is equipped with Wiechert instruments: A 1000 kg horizontal and a 1300 kg. vertical seismograph; they are mounted in a cave blasted out of the rock.

The time - marking clock, Strasser & Rohde, is controlled by means of Nauen scientific or ONOGO signals, but it has not been feasible to have it done daily, and though clock - corrections are usually known to the second the uncertainty may occasionally amount to some seconds.

The Ivigtut wireless operator attends to the station. As he has not always been able to deal with the difficulties which have arisen and as in addition there is an exceptionally strong microseismic movement, the number of records has been considerably reduced.

No. 1

IVIGTUT.

No.	Date	Hour		Forerunners								D
140.				P	S				L	Undef.		Remarks
1	1929 Aug. 28	19	m	S	m	S	h m s	m s	h m	h m	0	
2 3× 4	Sept. 1 17 ^x 27	17 19 23					27.9 38.2	32.4	.7	.3		Pacific Ocean
5 ^x 6 7	0et. 19 ^x 20 24	10 16 7	125	23	35	39	36 30		.8		81	Chile
8 9 10 ^x 11 12	Nov. 1 9 15 ^x 16 23	7 1 19 11 0					i50 32 15.7 38.9	17.4	.3	.4		Seismic?
13 14 15	Dec. 6 6 9	17 21 7							.7			Some preceding movement
16 17 18 19 20 ^x 21	13 14 14 15 17 ^x 18	5 22 22 1 11 8	9	2	17	13	27 36 12.9	24.4	30 52 38		60	Strong microseisens Iceland Iceland
22 23 24 25 26	1930 Jan. 5 5 14 16 28	1 19 23 0 7	30		39				.6 .1 51			
27 28 29 30 31 ^x 32 33	Febr. 1 2 2 12 14 14 26	19 15 17 7 18 21	6		14.6	3	54 19		.6	.0		Aegean Sea
34 35 36 37 38	March 6 8 10 26 31	16 4 16 7 12	42	31	45	43	2 53 34		.8 .2 56		48	Sea of Okhotsk Timor Aegean Sea

No. 1

IVIGTUT

No.	Date	Hour			Fo	reru	nners		L	Undef.	Deat	Remarks
110,				P	S				т.	onder.	Dist.	Remarks
39 40 41	1930 April 16 16 17	13 14 20	m	S	m	S	h m s	m s	h m	h m	0	No time-service
42 43 44 45 46 47 48 49 50 51	June 5 11 12 13 15 19 23 25 25	12 1 10 1 22 14 20 10 12 21	28	48	38	42×	9.3	19.7	.6 21 .2 .6	9	77	from April 17. to June 2. Preceding movement disturbed Faint preceding movement Disturbed Peru Peru
52 53 ^x 54 55 56 57 58	July 1 2x 7 22 23 27 29	1 21 14 19 0 19 6	16 i37	26	46	40	19.9 22 57 19.2 37	33.1	.5 .7 .0 1.0		72	Preceding movement un=. Tibet readable Kurile Islands Italy
59 60 61 62 63	Aug. 2 4 19 20 23	17 5 5 21 11	i14 4.		i23	30	28		.2	36		Small preceding movement Deep focus
64 ^x 65 ^x 66 ^x 67 68	Sept. 21x 22x 22x 22x 25	23 1 14 19 22	17.		27.	7	50.8 43.2		.7 1.8 .5			China Assam Preceding movement disturbed
69 70 71 72	Oct. 2 8 11 23	1 10 3 10	10.	4			40 13	51.3	1.2	•9		Greenland Sea No records from Oct.24 to Dec.11.
73	Dec.	15			-		8.6					Disturbed
							es to Note		of phas	e is in	ı time	-mark.

IVIGTUT

No. Notes

- 3. Sept.17. 19. Pacific Ocean. Forerunners quite small except SS, 35. 6, which is large; almost immediately followed by L of long period. Later large M.
- 5. Oct. 19. 10. Chile. P sharp on F, not large. S unusually large. Large waves of long period in first part of L; later L small.
- 10. Nov. 15. 19^h Caroline Islands. In forerunners phases most clearly marked on N. Additional readings : 19^m o; 25^m L earliest on E, about 37^m, with waves of period of about 1 min. and large amplitude.
- 20. Dec. 17. 11^h Between Kamtchatka and Aleutian Islands. Z not working well, P not quite certain. PPP large on N. S sharp on E, 17^m 13^s; on N increase of movement 17^m, 1, large movement begins 17^m 25^s. Very large movement follows S. 24^m4 excessively large oscillations, largest on E, SSS or LO? Very large M.
- 31. Febr. 14. 18th Aegean Sea. 54m19s large in all three component records; no other distinct phases.
- 53. July 2. 21^h Tibet. The beginning of P clearly marked on Z only; larger movement i 16^m 41^s. e 26^m 7 not clearly marked; larger movement e_N 27^m 2. In first part of L large movement of long period.
- 64-66. Sept. 21-22. There is an uncertainty of several seconds in time-corrections.