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GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

KØBENHAVN

$\varphi = 55°41'$ N. $\lambda = 12°26'$ E. $h = 13$ m.

Lithologic foundation: chalk

$V_{max} = 260 \times 12\frac{1}{2} \times 0.3248 = (1053)$

Instruments

Galitzin-Wilip. *N*, *E*, and *Z*. $T_p = T_g = 12^1/_2$ sec, $\mu^2 = 0$, $\frac{Ak}{\pi l} = 260\ \text{sec}^{-1}$ or V_{max} = abt. 1000.

Benioff. *Z'*. $T_p = 1$ sec, $T_g = {}^1/_4$ sec, V_{max} = abt. 30 000.

Wiechert 1000 kg. *N* and *E*. $T = 8^1/_2$ sec, $v = 6:1$, $\varrho = 0.3$ mm, $V_0 = 210$.

Wiechert 1300 kg. *Z*. $T = 6$ sec, $v = 4:1$, $\varrho = 0.3$ mm, $V_0 = 150$.

Seismological Readings

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often due to USCGS. The periods given are periods of full oscillations. The amplitudes are single amplitudes of the ground in microns. + indicates ground motion towards the north, towards the east, or upwards. – indicates the opposite direction. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.

Microseismic Readings

For every group of figures the first one indicates the character of the microseisms. 1 is group microseisms, 2 is continuous microseisms, 3 is irregular or mixed microseisms. Thereafter the single ground amplitude in microns is given, and at last the period of a full oscillation is stated. All readings are due to the Galitzin instruments.

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October				
1	*L·NE*		10h49m	
2	*M·ZNE*		8 18.2	10s. *Z*: 2 *μ*, *N*: 2 *μ*, *E*: 1 *μ*.
	F		19.5	
2	*e·Z′*		22 24 54	
	e·Z′		24 59	
4	*L·NE*		12 22	
6	*iPKP2·Z′*		1 07 13	+
	i·Z′		07 18	
	Δ = 155°. Kermadec Islands.			
6	*iP·Z′*		9 36 06	–
	L·NE		49	
	Δ = 34°. Iran-Turkmen border.			
6	*L·NE*		19 31	
7	*ePP·Z*		12 52 50	
	eSKKS·NE		13 00 17	
	ePS·ZE		03.0	
	eSS·NE		09.3	
	L·NE		27	
	Δ = 120°. New Britain.			
7	*e·Z′*		13 13 05	
9	*ePS·ZN*		11 49 55	
	eSS·NE		56.2	
	eSSS·N		12 00.3	
	L·NE		17	
	Δ = 115°. Sandwich Group.			
10	*iP·Z′Z*		8 41 20	
	Δ = 68°. Kamchatka.			
12	*L·ZNE*		8 09.1	
	M·ZNE		11.1	10s. *Z*: 4 *μ*, *N*: 5 *μ*, *E*: 3 *μ*.
	F		13.5	
12	*iP·(Z′)Z*		15 30 27	No time marks on *Z′*.
	ipP·(Z′)		31 31	*pP* – *P* read on *Z′*.
	esP·Z		31 58	
	ePP·ZNE		33 32	
	eS·NE		40 13	
	isS·N		41 59	
	L·NE		16 00	
	Δ = 80°. *h* = 250 km. China Sea.			
13	*L·NE*		9 18.6	
13	*L·N*		10 35	

October			
15	*L·ZNE*	8h06.2m	
	M·ZNE	08.6	12s. *Z*: 5 *μ*, *N*: 5 *μ*, *E*: 3 *μ*.
	F	11.8	
18	*L·ZNE*	10 06.2	
	M·ZNE	08.6	10s. *Z*: 7 *μ*, *N*: 8 *μ*, *E*: 4 *μ*.
	F	11.8	
20	*iPP·Z′ZE*	1 30 40	
	eSKS·E	37 09	
	eSKKS·E	37 42	
	iS·N	38 16	
	iSS·N	45 15	
	L·NE	2 04	
	Δ = 103°. Java.		
20	*L·ZNE*	8 37.1	
	M·ZNE	37.8	10s. *Z*: 2 *μ*, *N*: 2 *μ*, *E*: 1 *μ*.
	F	38.5	
22	*L·NE*	8 34.3	
	M·ZNE	38.6	10s. *Z*: 2 *μ*, *N*: 7 *μ*, *E*: 4 *μ*.
	F	40.9	
24	*L·ZNE*	8 19.5	
	M·ZN	20.8	10s. *Z*: 2 *μ*, *N*: 2 *μ*.
28	*iP·Z′Z*	10 56 07	
	iS·NE	11 03 54	
	iPS·NE	04 07	
	iScS·N	06 07	
	L·NE	13	
	M·NE	17	20s. *N*: 35 *μ*, *E*: 10 *μ*.
	M·NE	21	15s. *N*: 12 *μ*, *E*: 15 *μ*.
	Δ = 56°. Southern Tibet.		
29	*eP·Z′*	7 55 40	
	i·Z′Z	55 42	
	eS·NE	8 05 10	
	iSKS·N	05 47	
	eSS·NE	09.5	
	eSSS·NE	13.0	
	Paper-shift		
	M·NE	28	20s. *N*: 15 *μ*, *E*: 20 *μ*.
	Δ = 73°. Aleutian Islands.		
31	*L·NE*	20 02	
November			
1	*ePP·Z′Z*	3 58.8	
	eSKKS·NE	4 05.6	
	ePS·ZNE	08.4	
	eSS·NE	15.1	
	eSSS·NE	19.4	
	L·NE	35	
	Δ = 118°. Bismarck Sea.		

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November			
1	*ePKP·Z*	12h36m04s	
	ePP·N	39 26	
	ePKS·NE	39 42	
	ePPP·E	41 43	
	eSS·N	57.1	
	L·NE	13 20	
	$\Delta = 137°$. New Hebrides.		
1	*L·NE*	17.1	
3	*iP·Z'Z*	14 41 14	
	L·NE	15 01	
	$\Delta = 56°$. Tibet.		
4	*eP·Z'Z*	8 41 08	
	ePP·Z'	44.2	
	eSKS·NE	51.5	
	L·NE	9 12	
	$\Delta = 85°$. Bonin Islands. Cf. next shock.		
4	*eP·Z*	8 43 39	
	eSKS·NE	54 04	
	$\Delta = 85°$. Bonin Islands. Cf. previous shock.		
4	*ePKP·Z*	23 14 36	
	eSS·NE	37.2	
	e·E	38 06	
	L·NE	24 04	
	$\Delta = 148°$. South Pacific Ocean.		
5	*eP·Z'*	14 32 06	
	eS·Z'	32 47	
	Both phases uncertain due to microseisms.		
	$\Delta = 3^1/_2°$. Northern Skagerrak.		
6	*iP·Z'ZNE*	23 09 38	*Z*: 10s, + 100 μ.
	ePP·Z	12 23	
	iS·NE (Wiech.)	19 01	12s. *N*: 450 μ, *E*: 250 μ.
	L·NE (Wiech.)	31	
	M·NE (Wiech.)	45	20s, 800 μ.
	$\Delta = 73°$. Kurile Islands.		
6	*iP·Z'*	23 24 17	Aftershock.
6	*eP·Z'*	23 25 47	,,
	i·Z'	25 52	
6	*iP·Z'*	23 39 10	,,
6	*iP·Z'*	23 58 09	,,
7	*eP·Z'*	0 24 05	,,
7	*iP·Z'*	0 47 51	,,
7	*eP·Z'*	0 49 27	,,
7	*iP·Z'*	1 13 38	,,

November			
7	*eP·Z'*	1h16m34s	Aftershock.
7	*eP·Z'*	1 25 23	,,
7	*eP·Z'*	1 54 34	,,
7	*eP·Z'*	1 55 19	,,
7	*eP·Z'*	1 56 40	,,
7	*iP·Z'*	2 07 18	,,
7	*iP·Z'*	2 21 53	,,
7	*iP·Z'*	2 22 13	
7	*eP·Z'*	3 02 27	,,
	e(PcP)·Z'	02 40	
7	*eP·Z'*	3 38 30	,,
7	*iP·Z'*	5 11 30	,,
	L·NE	37	
7	*iP·Z'Z*	7 52 13 +	,,
7	*eP·Z'Z*	11 35 59	,,
	iPcP·Z'Z	36 13	
	L·NE	12 04	
7	*L·NE*	18 18	
8	*iP·Z'Z*	9 34 05 +	
	ePP·N	36 33	
	eS·NE	43 13	
	ePS·E	43 34	
	L·NE	56	
	$\Delta = 70°$. Kamchatka.		
9	*L·NE*	0 44	
9	*iP·Z'*	3 26 26 −	
	L·NE	57	
	$\Delta = 74°$. Kurile Islands.		
9	*L·NE*	18 32	
10	*L·NE*	12 12	
11	*L·NE*	12 10	
12	*L·NE*	4 51	

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November				
12	*iP·Z′Z*	20h35m04s		*Z*: 3 s, + 7 *μ*.
	iS·NE	44 30		13s. *N*: 25 *μ*, *E*: 15 *μ*.
	iScS·NE	45 17		12s. *N*: 15 *μ*, *E*: 20 *μ*.
	i·N	50 17		
	i·E	50 29		
	L·NE	57		
	M·NE	21 05		20s. *N*: 100 *μ*, *E*: 170 *μ*.
	Δ = 73°. Kurile Islands.			
13	*L·ZNE*	3 42		
13	*iP·Z′Z*	4 16 14		
	L·NE	43		
	Δ = 73°. Kurile Islands.			
13	*L·NE*	6 39		
14	*iP·Z′Z*	5 46 31	–	
	L·NE	6 15		
	Δ = 73°. Kurile Islands.			
14	*ePP·Z*	14 07 35		
	e·N	15 06		
	e·N	18 34		
	eSS·NE	23 16		
	L·NE	42		
	(*Δ* = 110°). Banda Sea.			
15	*iP·Z′Z*	5 47 06		
	eS·NE	50 37		
	L·NE	53		
	Δ = 19°. Greece.			
15	*iP·Z′Z*	9 12 23	+	
	iS·NE	21 49		
	L·NE	37		
	Δ = 73°. Kurile Islands.			
15	*L·NE*	10 34		
15	*iP·Z′*	23 31 57		
	e·Z′	32 08		
	Δ = 73°. Kurile Islands.			
16	*eP·Z′*	4 59 08		
	i·Z′	59 21		
	Δ = 73°. Kurile Islands.			
16	*iP·Z′*	5 52 23		
	Δ = 73°. Kurile Islands.			
16	*iP·Z′*	6 27 07		
	i·Z′	27 20		
	i·Z′	27 38		
	Δ = 73°. Kurile Islands.			
17	*iP·Z′*	15 46 02		
	i·Z′	46 14		
	Δ = 73°. Kurile Islands.			
November				
19	*eP·Z′Z*	9h35m25s		
	e·Z′	35 38		
	e·NE	45 13		
	L·NE	10 00		
	Δ = 74°. Kurile Islands.			
20	*iP·Z′Z*	5 47 44		*Z′*: +.
	L·NE	6 14		
	Δ = 70°. Kamchatka.			
20	*iP·Z′*	14 29 35		
	L·NE	56		
	Δ = 73°. Kurile Islands			
22	*L·NE*	0 55		
23	*e(P)·Z′*	13 12 03		
23	*e(P)·Z′*	13 54 06		
23	*eP·Z′*	20 25 46		
	Δ = 58°. Tibet.			
23	*iP·Z′*	22 30 46		
	Δ = 73°. Aleutian Islands.			
23	*eP·Z′*	23 49 02		
	Δ = 73°. Aleutian Islands.			
26	*L·NE*	22 30		
29	*iP·Z′*	3 46 27	–	
	Δ = 75°. Kurile Islands.			
29	*iPKP·Z′*	5 06 32	–	
	Δ = 152°. Kermadec Islands.			
30	*eP·Z′Z*	1 45 07		
	L·NE	2 14		
	(*Δ* = 84°). Japan.			
December				
1	*L·NE*	4 02		
3	*L·NE*	10 31		
7	*e·Z′*	14 43 24		
	e·Z′	44 02		
	e·Z′	44 28		
	Local shock?			
7	*L·NE*	18 44		
8	*L·NE*	12 44		

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December				
10	*iPKP*1·*Z'Z*	7h22m24s	*Z*: 7s, + 6 *μ*.	
	*iPKP*2·*Z'ZNE*	23 03	*Z*: 6s, − 10 *μ*.	
	ePKS·*E*	25 03		
	iPP·*Z*	26 41		
	iPPP·*N*	30 21		
	i·*NE*	7 33 03		
	e·*NE*	41 36		
	Δ = 158°. *h* = 300 km. New Zealand.			
10	*L*·*NE*	22 28		
17	*L*·*NE*	16 18		
19	*iP*·*Z'*	0 52 59		
	eS·*Z'*	54 54		
	L·*NE*	55.9		
	Δ = 10°. Norway-Sweden border.			
19	*iP*·*Z'*	3 32 16		
	L·*NE*	40		
	Δ = 21°. Turkey.			
19	*eP*·*Z'*	7 58 37		
	eS·*Z'*	8 00 40		
	eL·*Z'*	01 20		
	e·*Z'NE*	01 43		
	Δ = 10°. Norway-Sweden border.			
20	*L*·*NE*	20 05		
December				
21	*iP*·*Z'*	5h54m34s		
	iS·*N*	6 01 05	–	
	e·*E*	01 10		
	e·*Z'*	02 02		
	iSS·*N*	04 18		
	i(*Lg*)·*N*	07 24		
	iL·*Z'*	09 24		
	M·*NE*	10	10s. *N*: 40 *μ*, *E*: 35 *μ*.	
	Δ = 44°. Sinkiang Province, China.			
25	*ePP*·*ZN*	8 26 00		
	Paper-shift.			
	eSS·*E*	42.4		
	L·*NE*	9 04		
	Δ = 120°. New Britain.			
28	*iP*·*Z'Z*	5 44 01	*Z'*: –. *Z*: +.	
	i·*Z'*	44 05		
	iPP·*Z*	46 02	+	
	iS·*NE*	51 33		
	iScS·*N*	53 48		
	eSS·*NE*	55.6		
	L·*NE*	6 00		
	Δ = 54°. Nepal-India border.			
28	*eP*·*Z'*	11 51 09		
	i·*Z'*	51 28		
	L·*NE*	58.4		
	Δ = 18°. Jan Mayen.			

March 1959. HENRY JENSEN

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Microseisms. København

1958 Oct.	Z 0h	Z 6h	Z 12h	Z 18h	N 0h	N 6h	N 12h	N 18h	E 0h	E 6h	E 12h	E 18h	1958 Oct.
1	.. ..	.. ..	3 0.9 4.2	3 0.7 4.4	3 0.9 4.1	3 1.1 4.1	3 1.0 4.1	3 0.7 4.0	3 0.8 4.4	3 0.8 4.5	3 0.8 4.3	3 0.7 4.5	1
2	3 0.7 4.0	3 0.6 4.0	3 0.7 3.7	3 1.3 4.0	3 0.6 4.3	3 0.7 3.9	3 0.6 3.3	3 1.1 3.8	3 0.6 4.3	3 0.6 4.5	3 0.4 4.3	3 1.6 4.0	2
3	3 1.3 4.2	3 1.0 4.5	3 0.9 3.7	3 0.6 4.7	3 0.9 4.7	3 0.8 4.9	3 0.8 4.7	3 0.6 5.2	3 1.1 4.8	3 1.2 4.0	3 0.8 4.7	3 0.7 5.3	3
4	3 0.5 5.1	3 0.5 4.5	3 0.5 3.7	3 0.9 3.6	3 0.6 4.4	3 0.5 4.3	3 0.6 3.9	3 0.8 3.5	3 0.5 4.8	3 0.6 4.5	3 0.7 3.7	3 0.6 4.0	4
5	3 0.8 3.7	3 1.0 3.7	3 0.7 4.0	3 0.6 3.8	3 0.8 3.5	3 0.7 3.7	3 0.8 3.7	3 0.6 3.8	3 0.7 3.8	3 0.7 3.9	3 0.9 3.6	3 0.7 4.1	5
6	3 0.5 4.0	3 0.4 4.0	3 0.5 3.7	3 0.5 3.1	3 0.6 3.9	3 0.5 4.0	3 0.6 3.8	3 0.6 3.3	3 0.6 4.2	3 0.5 4.0	3 0.5 3.6	3 0.4 3.6	6
7	3 0.5 3.3	3 0.4 2.7	3 0.4 3.6	3 0.4 3.6	3 0.7 3.5	3 0.6 3.0	3 0.4 3.8	3 0.5 3.7	3 0.5 3.4	3 0.5 2.6	3 0.5 3.5	3 0.4 4.1	7
8	3 0.4 4.0	3 0.3 3.7	2 0.4 3.7	2 0.5 3.7	3 0.5 3.6	3 0.4 3.9	2 0.4 3.6	2 0.5 3.5	3 0.4 4.1	3 0.4 4.0	2 0.3 3.7	2 0.5 4.–	8
9	3 0.9 3.1	3 0.9 3.6	3 1.0 4.3	3 1.3 5.–	3 0.7 3.6	3 1.0 3.9	3 1.2 4.8	3 1.3 5.–	3 0.9 3.5	3 1.0 4.–	3 1.2 4.7	3 1.2 5.5	9
10	3 1.3 5.–	3 1.2 5.6	3 1.6 5.8	3 1.1 5.3	3 1.6 5.–	3 1.6 6.–	3 1.7 6.–	3 1.3 5.5	3 1.2 5.5	3 1.7 5.5	3 1.7 5.2	3 1.3 5.3	10
11	3 1.1 4.4	3 1.0 4.0	2 0.8 4.3	2 0.7 4.7	3 1.1 4.8	3 0.9 4.5	2 0.8 4.3	2 0.7 4.3	3 1.0 4.7	3 1.0 4.3	2 0.8 4.5	2 0.8 4.7	11
12	2 0.7 4.–	2 0.6 4.2	2 0.7 4.6	1 0.7 4.4	2 0.6 4.3	2 0.6 4.5	1 1.0 4.0	1 0.8 4.0	2 0.8 4.6	2 0.7 4.4	1 1.0 4.0	1 0.8 4.3	12
13	1 0.6 4.3	1 0.6 4.4	1 0.9 4.0	1 1.3 4.7	1 0.7 4.3	1 0.7 4.3	1 0.8 4.6	1 1.4 4.5	1 0.8 4.4	1 0.7 4.5	1 1.0 4.3	1 1.4 4.4	13
14	1 1.4 4.4	3 1.1 4.3	3 1.2 4.0	3 0.6 4.2	1 1.4 4.5	3 1.5 4.0	3 1.2 3.8	3 0.8 4.2	1 1.4 4.3	3 1.3 4.3	3 0.9 4.0	3 0.7 4.3	14
15	3 0.6 4.5	3 0.6 4.5	3 0.8 3.5	3 1.0 4.0	3 0.7 4.5	3 0.6 4.5	3 0.7 4.5	3 1.0 4.–	3 0.7 4.2	3 0.9 4.3	3 0.7 4.2	3 1.0 4.5	15
16	3 1.0 3.2	3 1.0 3.8	3 1.4 4.0	3 1.9 3.7	3 1.2 4.–	3 1.0 5.–	3 1.3 3.5	3 2.6 4.–	3 1.0 4.–	3 1.0 3.8	3 1.5 4.–	3 2.3 4.–	16
17	3 2.1 3.8	3 2.0 3.7	3 1.2 4.2	3 1.5 4.7	3 2.1 4.6	3 2.1 4.–	3 1.5 4.5	3 1.6 4.8	3 2.6 3.8	3 2.0 4.0	3 1.5 4.0	3 1.2 4.5	17
18	3 1.6 6.–	3 1.7 4.–	3 0.9 4.5	3 0.9 3.8	3 1.3 4.6	3 1.5 4.–	3 1.2 4.–	3 0.9 4.4	3 1.3 4.5	3 1.2 5.–	3 1.2 4.1	3 1.0 4.–	18
19	3 0.7 3.8	3 0.6 4.3	3 0.9 4.–	3 0.7 4.3	3 0.8 4.0	3 0.7 4.–	3 1.0 4.3	3 0.9 4.5	3 0.9 4.2	3 0.6 4.5	3 0.7 4.3	3 0.6 4.5	19
20	3 0.7 4.4	3 0.6 4.3	3 0.6 5.–	3 0.7 5.5	3 0.9 4.8	3 0.9 5.–	3 0.9 5.0	1 1.1 5.7	3 0.6 5.–	3 0.7 4.6	3 0.7 4.5	1 0.9 5.3	20
21	1 1.0 5.5	1 0.9 5.2	.. ..	3 0.7 3.7	1 1.1 5.7	1 1.1 5.3	.. ..	3 0.9 4.–	1 1.1 5.5	1 1.0 4.6	.. ..	3 0.7 3.8	21
22	3 0.8 4.–	3 0.9 4.0	3 0.7 4.4	3 1.0 4.7	3 0.8 4.–	3 0.7 4.2	3 0.6 4.5	3 1.0 4.6	3 0.6 4.3	3 0.8 4.2	3 0.7 4.3	3 1.3 5.–	22
23	1 1.2 4.6	1 1.4 4.2	1 1.4 4.7	1 1.7 4.–	1 1.1 4.7	1 1.3 4.7	1 1.6 5.0	1 1.4 5.3	1 1.6 5.–	1 1.5 4.7	1 1.6 5.0	1 1.5 5.0	23
24	1 1.4 4.4	1 1.4 4.5	1 1.4 4.5	1 1.6 4.7	1 1.5 4.6	1 1.4 4.7	1 1.3 5.–	1 1.5 5.5	1 1.5 4.7	1 1.7 4.6	1 1.8 5.–	1 2.0 5.–	24
25	1 1.5 4.4	1 2.4 4.8	1 2.2 5.–	1 2.0 5.–	1 1.6 5.3	1 2.3 5.6	1 3.– 5.–	1 2.0 5.0	1 1.9 5.2	1 2.5 5.3	1 2.7 5.–	1 2.0 5.0	25
26	1 1.7 4.6	1 1.6 5.0	3 1.3 5.0	3 1.1 4.5	1 1.9 5.–	1 1.5 5.–	3 1.1 5.–	3 0.9 5.0	1 2.1 5.2	1 2.0 5.0	3 1.4 5.–	3 1.5 4.7	26
27	3 1.0 5.3	3 0.9 5.–	3 0.9 4.5	3 1.0 4.4	3 0.9 4.8	3 1.0 5.0	3 0.7 4.3	3 0.7 4.4	3 1.3 4.6	3 1.1 4.8	3 1.2 4.6	3 0.9 4.2	27
28	3 0.8 4.3	1 0.8 4.5	.. ..	1 0.9 5.0	3 0.7 4.4	3 0.8 4.6	.. ..	1 0.9 5.0	3 0.9 4.3	3 0.8 4.7	.. ..	1 0.9 5.4	28
29	1 1.1 5.5	1 1.1 5.5	1 1.1 6.–	3 1.5 6.–	1 1.0 5.7	1 1.1 6.–	3 1.2 6.–	3 1.5 6.–	1 1.0 5.3	1 1.1 5.–	3 1.2 6.0	3 1.7 6.–	29
30	3 1.2 6.–	3 1.0 5.3	3 0.9 5.0	3 1.0 4.8	3 1.1 6.–	3 1.1 6.–	3 0.8 5.0	3 1.0 4.8	3 1.2 5.5	3 1.1 5.5	3 1.0 5.4	3 1.1 5.6	30
31	3 0.9 5.0	3 1.0 5.–	3 0.8 5.2	3 0.9 5.–	3 1.0 5.–	3 0.9 5.6	3 1.0 5.5	3 0.9 5.5	3 1.0 5.3	3 1.0 5.5	3 1.0 5.–	3 1.2 5.–	31

Microseisms. København

1958 Nov.	Z 0h	Z 6h	Z 12h	Z 18h	N 0h	N 6h	N 12h	N 18h	E 0h	E 6h	E 12h	E 18h	1958 Nov.
1	3 1.0 5.0	3 0.8 5.0	3 0.8 5.0	3 0.7 5.0	3 0.9 5.0	3 0.8 5.0	3 0.7 4.5	3 0.6 4.5	3 1.0 5.0	3 0.8 5.0	3 0.9 4.8	3 1.0 4.5	1
2	3 1.0 5.0	1 1.2 5.0	1 1.0 4.7	1 1.0 5.2	3 0.9 4.3	1 1.0 5.0	1 1.0 5.0	1 1.0 5.0	3 0.9 5.0	1 1.3 5.0	1 1.5 5.0	1 1.0 5.0	2
3	3 0.6 4.5	3 0.5 5.0	3 0.6 3.7	3 0.6 4.0	3 0.8 5.0	3 0.7 4.0	3 0.6 4.0	3 0.4 4.0	3 0.8 5.0	3 0.7 4.5	3 0.7 4.0	3 0.6 4.5	3
4	3 0.5 4.3	3 0.5 4.5	3 0.4 4.0	3 0.4 3.7	3 0.4 4.3	3 0.4 4.3	3 0.5 4.0	3 0.6 3.8	3 0.5 4.5	3 0.6 5.0	3 0.6 4.0	3 0.4 5.0	4
5	3 0.3 3.8	3 0.5 3.5	3 0.6 4.0	3 0.6 3.8	3 0.4 4.0	3 0.4 4.0	3 0.5 3.7	3 0.6 3.8	3 0.4 4.0	3 0.5 4.0	3 0.6 4.0	3 0.7 3.8	5
6	3 0.6 3.5	3 0.5 4.2	3 0.8 4.0	3 0.8 5.0	3 0.6 4.0	3 0.7 4.0	3 0.6 5.0	3 0.7 5.0	3 0.7 4.0	3 0.7 4.0	3 0.7 4.5	3 0.8 4.5	6
7	.. ..	.. ..	3 0.9 4.0	3 1.2 4.0	.. ..	.. ..	3 0.8 4.8	3 0.9 4.5	.. ..	.. ..	3 0.9 4.0	3 0.9 4.5	7
8	3 0.9 4.2	3 1.2 3.5	3 0.8 3.5	3 0.8 3.4	3 1.1 4.0	3 1.0 4.0	3 0.7 3.5	3 0.7 4.0	3 1.0 4.5	3 1.0 4.0	3 0.8 3.5	3 0.7 3.7	8
9	3 0.6 3.5	3 0.7 4.7	1 1.5 6.–	1 1.2 5.–	3 0.6 4.5	3 0.7 5.–	1 1.2 6.–	1 1.1 5.–	3 0.7 3.9	3 0.7 4.7	1 1.5 5.–	1 1.2 5.–	9
10	3 0.9 4.5	3 0.8 4.7	3 0.8 3.8	3 0.9 4.0	3 0.8 5.0	3 0.7 4.6	3 0.8 4.0	3 0.7 4.0	3 1.0 5.5	3 0.9 4.7	3 0.9 4.0	3 0.7 4.3	10
11	3 0.6 4.5	3 0.6 4.0	2 0.6 4.0	2 0.6 3.8	3 0.5 4.7	3 0.6 3.9	2 0.5 4.0	2 0.6 4.0	3 0.6 4.5	3 0.5 5.–	2 0.4 4.5	2 0.4 4.5	11
12	2 0.6 3.9	3 0.6 4.2	3 1.3 6.5	3 1.4 5.8	2 0.6 4.0	3 0.6 4.5	3 0.9 6.0	3 1.2 5.5	2 0.6 4.0	3 0.7 4.5	3 1.0 5.8	3 1.4 5.–	12
13	3 1.4 5.5	3 1.3 5.0	3 0.9 5.0	3 1.2 4.0	3 1.1 4.7	3 1.1 5.5	3 1.1 5.0	3 1.1 5.0	3 1.5 5.0	3 1.1 5.0	3 1.1 4.7	3 1.0 4.0	13
14	3 1.0 4.0	3 0.8 3.5	3 0.3 4.0	3 0.3 4.5	3 1.0 4.0	3 0.8 4.0	3 0.4 4.3	3 0.4 4.0	3 0.9 4.3	3 0.8 4.8	3 0.6 4.0	3 0.4 5.0	14
15	3 0.3 5.0	3 0.4 4.7	3 0.4 5.0	3 0.7 5.0	3 0.6 4.0	3 0.6 4.5	3 0.7 4.8	3 1.2 5.5	3 0.4 4.5	3 0.5 4.5	3 0.8 5.0	3 1.2 5.5	15
16	3 1.5 6.–	3 2.– 6.–	3 3.– 6.–	3 3.– 6.–	3 2.– 6.–	3 3.– 6.0	3 3.5 6.4	1 3.2 6.–	3 2.– 5.5	3 3.– 5.5	3 4.– 6.–	1 3.5 6.–	16
17	1 2.– 5.6	1 2.– 5.7	1 1.7 5.5	3 1.7 6.–	1 2.8 5.5	1 2.8 5.7	1 3.0 5.8	1 2.4 5.7	1 3.– 6.0	1 2.5 5.5	1 3.– 5.7	1 2.5 5.5	17
18	3 2.– 6.–	3 2.– 6.–	3 1.2 5.0	3 1.0 5.5	3 3.– 6.–	3 3.– 6.–	3 2.– 5.–	3 1.5 5.–	3 3.– 5.0	3 3.– 5.5	3 2.– 5.0	3 1.5 5.0	18
19	3 0.6 5.0	3 0.5 5.0	3 0.4 5.0	3 0.5 5.0	3 1.0 5.–	3 0.7 4.5	3 0.8 4.5	3 0.8 4.5	3 1.0 5.0	3 0.8 5.0	3 0.7 4.7	3 0.7 5.0	19
20	3 0.5 5.0	3 0.4 5.0	3 0.5 5.0	3 0.4 5.0	3 0.9 4.–	3 1.0 4.–	3 0.8 5.–	3 0.8 5.–	3 0.9 4.0	3 0.8 5.0	3 0.7 5.0	3 0.7 5.0	20
21	3 0.4 5.0	3 0.5 5.0	1 0.6 5.0	1 0.6 5.5	3 0.7 5.0	3 0.8 5.0	1 1.0 5.5	1 1.1 5.2	3 0.9 5.0	3 0.8 5.0	1 0.9 5.0	1 1.2 5.0	21
22	3 0.5 4.5	3 0.3 4.5	3 0.3 4.5	3 0.3 4.5	3 0.7 4.7	3 0.7 4.–	3 0.7 4.–	3 0.7 4.3	3 0.9 5.0	3 0.8 4.5	3 0.7 4.5	3 0.9 4.5	22
23	3 0.4 4.7	3 0.6 4.8	3 0.7 5.0	3 0.7 5.0	3 0.9 5.–	3 0.9 5.–	3 1.0 5.5	3 1.0 5.5	3 0.8 4.7	3 1.0 5.0	3 1.6 5.5	3 1.4 5.3	23
24	3 0.7 5.0	3 0.7 5.0	3 0.6 5.0	3 0.5 5.0	3 1.2 5.–	3 1.2 5.–	3 1.1 5.0	3 0.9 4.6	3 1.2 5.3	3 1.1 5.2	3 1.0 5.0	3 1.0 4.8	24
25	3 0.5 4.7	3 0.4 4.7	3 0.5 4.4	3 0.6 4.2	3 0.8 4.6	3 0.7 4.4	3 0.8 4.5	3 1.0 4.8	3 1.0 4.6	3 1.0 4.8	3 1.0 4.5	3 1.0 4.5	25
26	3 0.5 4.3	3 0.5 4.6	3 0.6 4.8	3 0.6 4.7	3 0.8 4.4	3 0.8 4.3	3 0.8 4.5	3 0.8 5.0	3 1.0 4.5	3 1.0 4.4	3 0.9 4.8	3 0.9 4.6	26
27	3 0.5 5.4	3 0.5 5.5	3 0.5 5.0	3 0.6 5.4	3 0.6 5.2	3 0.6 5.4	3 0.7 5.2	3 0.7 5.3	3 0.8 4.8	3 0.7 5.4	3 0.8 5.2	3 0.9 5.7	27
28	3 0.5 5.5	3 0.6 5.0	3 0.5 5.0	3 0.6 5.0	3 0.8 5.4	3 0.8 4.7	3 0.9 5.0	3 1.0 4.8	3 0.9 5.0	3 0.9 4.7	3 1.0 4.8	3 0.9 5.0	28
29	3 0.6 5.0	3 0.6 5.0	3 0.6 4.6	3 0.6 4.6	3 0.7 4.6	3 0.9 4.5	3 1.1 4.4	3 1.0 4.3	3 0.8 4.7	3 0.9 4.7	3 1.1 4.8	3 1.1 4.4	29
30	3 0.7 4.6	1 1.0 5.0	1 1.0 5.2	3 0.9 5.0	3 1.0 4.2	1 1.1 5.0	1 1.5 5.2	3 1.2 5.0	3 1.0 4.6	1 1.4 4.8	1 1.8 5.0	3 1.5 5.0	30

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1958		Z				N				E				1958	
	Dec.	0h	6h	12h	18h	0h	6h	12h	18h	0h	6h	12h	18h	Dec.	
303	1	3 0.7 4.2	3 0.7 4.0	3 0.4 4.0	3 0.3 4.0	3 1.0 3.8	3 0.9 4.2	3 0.6 4.0	3 0.4 4.4	3 1.1 5.–	3 0.9 4.3	3 0.7 4.8	3 0.6 4.6	1	340
276	2	2 0.2 4.7	2 0.2 4.4	2 0.3 4.8	2 0.3 4.7	3 0.4 4.4	3 0.4 4.3	2 0.5 4.0	2 0.4 4.6	3 0.4 4.8	3 0.4 4.7	2 0.5 4.0	2 0.5 4.2	2	295
261	3	2 0.3 4.6	2 0.3 3.8	2 0.4 4.2	1 0.7 4.8	2 0.4 3.8	2 0.5 3.8	2 0.6 4.3	1 1.0 5.2	2 0.6 3.8	2 0.7 3.8	2 0.8 4.6	1 1.2 5.0	3	275
406	4	1 1.1 5.6	1 2.2 6.–	1 4.1 6.3	1 4.1 7.2	1 1.5 5.0	1 3.– 6.–	1 5.– 6.0	1 6.– 6.5	1 1.5 5.0	1 3.– 5.6	1 5.– 6.0	1 5.– 6.4	4	415
419	5	1 4.– 7.0	1 4.– 6.4	1 2.7 5.7	1 2.3 5.8	1 6.– 6.5	1 5.– 6.5	1 3.8 5.7	1 3.0 6.2	1 5.– 6.4	1 5.– 6.0	1 3.5 5.4	1 3.– 5.2	5	~~343~~ 435
320	6	1 2.3 6.0	1 1.3 5.6	1 1.0 5.4	1 0.8 5.6	1 2.6 6.0	1 2.2 5.8	1 1.4 5.5	1 1.1 5.6	1 2.8 5.6	1 2.2 5.8	1 1.6 5.3	1 1.6 5.5	6	344
330	7	1 0.8 5.2	3 0.8 5.2	3 0.5 5.0	3 0.5 5.0	1 1.2 5.5	1 1.1 5.5	3 0.8 4.4	3 0.7 4.4	1 1.2 5.4	1 0.9 5.0	3 0.8 5.0	3 0.8 4.8	7	319
296	8	2 0.4 4.7	2 0.5 4.8	3 0.6 4.2	3 0.4 4.0	2 0.7 4.6	2 0.7 4.0	3 0.8 3.8	3 0.8 3.8	3 0.8 4.8	3 0.7 4.8	3 0.8 4.3	3 0.9 4.4	8	335
314	9	3 0.5 4.4	3 0.5 4.2	3 0.8 4.0	3 1.0 4.0	3 1.0 4.0	3 0.8 3.6	3 1.4 3.7	3 1.2 3.6	3 1.0 4.4	3 1.0 4.0	3 1.2 3.8	3 1.4 4.0	9	328
321	10	3 0.6 3.7	3 0.5 4.4	3 0.4 5.0	3 0.5 5.0	3 0.8 3.8	3 0.8 5.–	3 0.7 4.2	3 0.8 4.4	3 1.3 3.7	3 0.9 4.5	3 1.0 4.8	3 1.0 4.4	10	336
376	11	3 0.6 4.5	3 0.8 5.–	3 0.7 5.4	3 0.6 5.–	3 0.7 4.5	3 1.1 5.–	3 1.0 5.6	3 1.0 5.0	3 1.1 4.5	3 1.3 4.8	3 1.2 5.0	3 1.0 5.0	11	359
351	12	3 0.8 5.0	3 0.6 5.–	3 1.0 5.2	2 1.5 5.0	3 1.1 5.4	3 1.0 5.5	3 1.3 5.2	2 1.7 5.1	3 1.1 5.0	3 1.1 4.8	3 1.5 5.3	2 1.8 5.0	12	366
388	13	3 1.1 5.3	3 1.5 5.0	3 2.0 5.0	3 1.9 5.0	3 1.7 5.0	3 1.9 4.8	3 3.0 4.6	3 2.3 5.2	3 1.7 4.6	3 2.0 4.7	3 3.0 5.–	3 2.7 5.2	13	~~407~~ 405
356	14	3 1.8 5.0	3 1.5 4.6	3 0.8 4.7	3 0.7 4.5	3 1.7 5.2	3 1.6 5.0	3 1.2 4.8	3 0.9 4.5	3 2.3 5.2	3 1.8 5.0	3 1.5 4.6	3 1.2 4.6	14	382
269	15	3 0.8 4.0	3 1.0 3.8	1 1.1 3.6	1 1.0 3.6	3 0.7 3.8	3 1.2 4.0	1 1.4 4.0	1 1.4 3.6	3 1.0 4.4	3 1.4 4.0	1 1.3 3.8	1 1.3 3.8	15	290
310	16	3 0.9 3.6	3 0.8 4.0	3 0.7 4.2	3 0.6 4.2	3 1.4 3.7	3 1.2 4.2	3 1.2 4.0	3 0.7 4.4	3 1.6 4.0	3 1.3 4.4	3 1.0 4.5	3 1.1 4.0	16	339
296	17	3 0.5 3.8	3 0.5 4.0	3 0.4 4.0	3 0.4 4.0	3 0.7 4.4	3 0.7 4.0	3 0.7 3.8	3 0.7 4.0	3 1.0 4.0	3 0.8 3.8	3 0.6 4.2	3 0.6 4.6	17	316
324	18	3 0.5 4.7	3 0.4 5.0	2 0.3 5.2	1 0.8 6.5	3 0.6 4.7	3 0.5 5.–	2 0.5 5.0	1 0.9 6.–	3 0.7 4.4	3 0.6 4.7	2 0.6 5.0	1 1.0 6.0	18	320
336	19	1 0.9 6.5	1 0.8 6.–	3 1.0 5.0	3 1.4 4.0	1 1.0 6.5	1 1.1 6.–	3 1.4 4.2	3 2.1 4.0	1 1.2 7.0	1 1.2 6.–	3 1.6 5.–	3 1.7 4.6	19	363
364	20	3 2.0 4.0	3 2.3 4.0	3 2.4 4.0	3 1.9 3.8	3 2.5 4.0	3 2.4 3.7	3 2.4 4.0	3 1.8 4.3	3 3.0 4.0	3 2.4 4.3	3 2.4 4.0	3 2.3 4.0	20	384
337	21	3 1.4 4.5	3 1.2 4.2	3 0.7 4.4	3 0.8 4.5	3 1.7 4.6	3 1.1 4.3	3 1.5 4.3	3 1.6 4.0	3 1.7 4.4	3 1.6 4.5	3 1.5 5.5	3 1.2 4.2	21	366
323	22	3 0.7 4.5	3 0.7 4.1	3 0.5 4.5	3 0.5 4.8	3 1.1 4.2	3 1.0 4.5	3 0.7 4.4	3 0.6 4.3	3 1.2 4.5	3 1.0 4.7	3 0.8 4.6	3 0.8 5.0	22	346
396	23	3 0.7 6.–	3 0.7 6.5	3 0.5 6.5	3 0.4 6.3	3 0.9 5.5	3 0.8 5.8	3 0.8 5.–	3 0.7 6.0	3 1.0 5.6	3 1.1 5.8	3 1.0 5.8	3 0.8 5.6	23	387
321	24	3 0.5 4.8	3 0.6 4.5	3 0.5 4.8	3 0.4 4.0	3 0.8 5.–	3 1.0 4.5	3 0.7 4.6	3 0.5 4.3	3 0.9 4.8	3 0.9 5.0	3 0.7 4.4	3 0.6 4.5	24	338
276	25	2 0.3 4.6	2 0.2 4.6	2 0.3 4.8	2 0.3 4.5	2 0.5 4.3	2 0.5 4.5	2 0.4 4.2	2 0.4 4.2	2 0.5 4.6	2 0.6 4.6	2 0.5 4.3	2 0.6 4.0	25	277
268	26	2 0.3 4.2	2 0.4 4.0	2 0.3 4.2	3 0.6 3.8	2 0.5 3.6	2 0.5 4.0	2 0.7 3.5	3 0.8 3.8	2 0.5 4.5	2 0.5 4.2	2 0.6 3.8	3 0.8 3.6	26	275
176	27	.. ..	.. ..	3 0.6 4.0	3 0.4 4.2	3 0.8 3.7	3 0.8 3.9	3 0.7 4.0	3 1.0 3.8	3 1.2 3.8	3 1.2 4.0	3 0.7 4.4	3 1.0 4.0	27	323
251	28	3 0.4 4.2	.. ..	2 0.5 5.0	3 0.8 6.5	3 0.7 4.4	.. ..	2 0.7 5.0	3 1.2 5.6	3 0.8 4.2	.. ..	2 0.8 5.5	3 1.5 4.7	28	252
414	29	3 1.9 6.–	3 1.4 4.5	3 2.0 5.6	3 2.0 6.0	3 2.0 6.–	3 2.0 5.5	3 2.5 6.–	3 3.– 6.–	3 2.5 7.–	3 2.5 5.–	3 2.5 5.3	3 2.8 5.–	29	476
399	30	3 2.0 6.–	3 1.9 5.4	3 1.3 5.2	3 1.1 5.0	3 3.– 6.–	3 2.0 5.6	3 2.0 5.8	3 1.6 5.2	3 2.5 5.–	3 2.3 5.–	3 1.8 5.2	3 1.8 4.8	30	404
339	31	3 1.0 5.0	3 0.8 4.8	3 0.7 4.6	3 0.6 4.4	3 1.4 4.8	3 1.2 4.7	3 1.3 4.5	3 0.8 4.1	3 1.6 5.0	3 1.1 4.8	3 1.1 4.5	3 1.0 4.5	31	356