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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

Instruments

Galitzin-Wilip. *N*, *E*, and *Z*. $T_p = T_g = 12^1/_2$ sec, $\mu^2 = 0$, $\frac{Ak}{\pi l} = 255$ 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, $\nu = 5:1$, $\varrho = 0.3$ mm, $V_0 = 210$.

Wiechert 1300 kg. *Z*. $T = 6$ sec. $\nu = 6:1$, $\varrho = 0.1$ 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.

July				
1	*eP·Z′ZE*	19h41m02s	+	
	ePP·Z	43 08		
	iS·NE	49 41		10s. *N*: − 8 *μ*, *E*: − 6 *μ*.
	iN	50 14		12s. − 8 *μ*.
	eSS·NE	53 58		
	L·NE	20 02		
	Δ = 65°.	India-Burma border.		
2	*iP·Z′ZNE*	0 49 06		7s. *N*: + 6*μ*, *E*: − 19*μ*, *Z*: + 24*μ*.
	iPP·E	50 09		
	ePPP·N	50 19		
	iS·NE	54 30		10s. *N*: − 12 *μ*, *E*: − 30 *μ*.
	M·E	1 08		16s. 160 *μ*.
	Δ = 34°.	Northern Iran.		
3	*e·NE*	2 16.1		
3	*i·Z′Z*	6 21 24		−
3	*iP·Z′ZN*	12 36 18		−
	ePcP·Z′	36 31		
	eZ′	37 06		
	ePP·Z	39 00		
	eS·NE	45 54		*N* +, *E* +.
	ScS·NE	46.6		
	L·NE	13 01		
	Δ = 74°.	Aleutian Islands.		
3	*L·NE*	21 19		
4	*L·N*	3 13.5		
	L·E	17.0		
4	*L·N*	13 13		
	L·E	14		
5	*L·N*	1 43.4		
	L·E	44.6		
5	*eP·Z*	15 42 11		+
	eS·E	50 08		−
	eL·E	16 03		
	Δ = 58°.	Belgian Congo.		
7	*iP·Z′Z*	6 04 16		4s. − 3 *μ*.
	eS·NE	08 43		
	M·E	17		12s. 8 *μ*.
	Δ = 26°.	Turkey.		
7	*iPKP·Z′*	16 30 16		
	e·E	41.4		
	e·E	47.4		
	L·NE	17.1		
	Δ = 123°.	Solomon Islands.		

July				
8	*eP·Z*	15h43m04s	−	
	epP·Z	43 28	−	
	ePP·Z	46 25		
	eSKS·NE	53 30		
	e·NE	54 02		
	L·N	16 10		
	Δ = 86°.	*h* = 150 km.	Guatemala.	
9	*ePP·Z*	10 15 14		
	eSKS·N	22.8		
	ePS·Z	24 08		
	ePS·E	24 20		
	eSS·E	29.7		
	e·N	31.2		
	L·N	47		
	Δ = 95°.	*h* = 60 km.	Sumatra region.	
9	*eP·ZNE*	20 39 28		8s. *Z*: + 1 *μ*.
	Δ = 19°.	North of Iceland.		
9	*eP·ZNE*	21 24 47		
	L·N	32.3		
	Δ = 19°.	North of Iceland.		
10	*L·NE*	5 26		
10	*eP·ZNE*	6 10 13		5s. *Z*: + 1 *μ*.
	L·E	15.4		
	Δ = 19°.	North of Iceland.		
10	*eP·Z′Z*	9 16 56		4s. − 2 *μ*.
	ePP·E	20 18		
	eSKS·E	27 26		1*μ*.
	iS·N	27 40		8s. − 4 *μ*.
	ePS·E	28 09		
	L·NE	44		
	Δ = 87°.	Panama region.		
10	*iP·Z′*	23 42 02		+
	eS·E	45 53		
	eSS·E	46 24		
	L·E	49.4		
	Δ = 22°.	South of Greece.		
12	*eP·Z′*	21 26 05		
	eP·Z	26.2		
	L·NE	22 01		
12	*L·NE*	22 56		
13	*iP·Z′*	1 10 58		−
	iPcP·Z′	11 09		
	e·E	20.7		
	e·NE	21 21		
	L·NE	37.5		
	Δ = 73°.	Aleutian Islands.		

July			
13	*L·NE*	3h42.7	
14	*eP·Z′Z*	2 38 25	
	L·NE	3 03	
	Δ = 73°. Kurile Islands.		
14	*eiPKP·Z′Z*	6 43 24	6s. *Z*: −7 *μ*.
	i·Z′NE	43 29	*Z′*: −.
	i·Z	44 47	
	iPP·ZNE	47 06	8s. *N*: + 6 *μ*, *E*: −7 *μ*, *Z*: −14 *μ*.
	e·N	48 55	−
	e·E	58 16	
	e·N	58 25	+
	e·N	61 30	+
	Δ = 151°. *h* = 200 km. Tonga Islands region.		
14	*ePKP·Z′Z*	8 30 39	
	i·Z′ZN	30 46	
	ePP·ZNE	34 33	
	eSKKS·N	41.4	
	eSKSP·N	44 28	
	eSS·E	54.3	
	eSSS·N	60.4	
	M·N	9 28	24s. 12 *μ*.
	Δ = 153°. Kermadec Islands.		
14	*ePKP·Z′Z*	10 02 04	
	Δ = 142°. Tonga Islands.		
15	*eS·N*	9 46.0	
	e·E	46 21	
	L·NE	48.3	
	Δ = 24°. Atlantic Ocean.		
15	*eS·E*	23 24 02	
	eSS·E	27 35	
	eL·N	34.2	
	Δ = 48°. Pakistan.		
17	*iPKP·Z′Z*	11 29 24	7s. *Z*: + 2 *μ*.
	i·Z	29 54	
	iPP·ZNE	31 44	8s. *Z*: + 4 *μ*.
	iPKS·NE	32 51	7s. *N*: + 4 *μ*, *E*: + 4 *μ*.
	eL·NE	12.0	
	Δ = 131°. Santa Cruz Islands.		
17	*iS·NE*	18 58.5	
	eL·NE	19 10	
	Δ = 60°. Mid Atlantic Ocean.		
18	*L·ZNE*	12 21	
18	*iP·Z′Z*	12 18 27	
	iS·NE	28 11	
	Δ = 83°. *h* = 400 km. South of Honshu, Japan.		

July			
19	*eP·Z′*	12h09m59s	
	Δ = 71°. Aleutian Islands.		
19	*eP·Z′Z*	13 14 22	
	e·Z	14 46	
	eS·NE	24 17	
	ePS·NE	25 07	
	L·NE	40	
	Δ = 78°. Formosa region.		
20	*iP·Z′Z*	14 19 52	*Z*: +
	iS·E	29 23	+
	L·E	44	
	M1·E	50.5	20s. 3 *μ*.
	M2·E	56.0	18s. 6 *μ*.
	Δ = 73°. Hokkaido, Japan.		
20	*L·NE*	19 25	
21	*iP·Z′Z*	6 16 47	*Z′*: −
	e·NE	27 24	
	L·NE	44	
	Δ = 86°. *h* = 100 km. Guatemala.		
22	*ePKP1·Z′*	6 36 53	
	ePKP2·Z′	37 22	
	e·N	37 41	
	eSKKS·N	47 44	
	L·NE	7 32	
	Δ = 156°. Kermadec Islands region.		
22	*L·NE*	13 14	
23	*iP·Z′ZN*	0 56 44	*Z′*: −. 8s. *N*: −2 *μ*, *Z*: + 3 *μ*.
	eS·NE	1 06 09	
	ePS·NE	06 27	
	L·NE	20	
	M1·N	28	20s. 8 *μ*.
	M2·N	32	18s. 10 *μ*.
	M3·N	36	16s. 20 *μ*.
	Δ = 73°. Aleutian Islands.		
24	*eSKS·NE*	2 23 07	
	eSKKS·NE	23 50	
	ePS·E	26 12	
	L·NE	50	
	Δ = 111°. Chile-Argentina border.		
24	*ePKS·N*	11 25 38	
	ePPP·N	27.6	
	e·E	28 36	
	e·N	32.3	
	e·E	38 13	
	L·NE	12 04	
	Δ = 140°. New Hebrides.		

July

25	*eP·Z′N*	7h54m07s		
	eS·NE	8 03 46		
	L·NE	8 19		
	Δ = 75°. Aleutian Islands.			
25	*L·NE*	20 08		
27	*L·NE*	16 11		
27	*L·NE*	19 51		
27	*L·NE*	21 47		
28	*eP·Z*	8 52 57	+	
	eP·Z′	53 02		
	i·ZNE	53 10	*Z*: −	
	ePP·N	56 17		
	eSKS·E	9 03 40		
	eS·E	03 50		
	SS·E	09.4		
	L·NE	18		
	M·E	29	26s. 60 *μ*.	
	M·N	35	20s. 200 *μ*.	
	Wiechert readings.			
	Δ = 88°. Mexico.			
28	*L·NE*	17 07		
29	*iP·Z*	17 29 31	7s. + 1 *μ*.	
	iPP·Z′ZNE	33 48	7s. *Z*: + 2 *μ*.	
	ePPP·N	36 06		
	eSKS·NE	40 07	15s. *E*: + 3 *μ*.	
	eSKKS·E	41 08		
	iPS·NE	43 10	14s. *N*: + 3 *μ*, *E*: + 6 *μ*.	
	eSS·NE	49.0		
	L·NE	18 05		
	M·E	11	28s. 30 *μ*.	
	M·N	15	20s. 15 *μ*.	
	Δ = 107°. Coast of Chile.			

August

4	*ePP·Z′*	0 59 02		
	e·E	1 07 31		
	e·Z	09 25		
	e·E	10 13		
	eSS·N	15 08		
	L·NE	1.6		
	Δ = 117°. New Guinea.			
4	*eP·Z*	6 19 28		
	ePP·ZNE	22 56		
	e·E	30 17		
	eSS·N	36 08		
	L·NE	53		
	Δ = 88°. Mexico.			

August

4	*eP·Z*	14h29m11s		
	ePP·ZNE	32 26		
	eSKS·E	39 38		
	eS·NE	40 08		
	eSS·E	45 53		
	L·NE	15 03		
	Δ = 88°. Mexico.			
4	*ePP·Z*	21 27 10		
	eSKS·NE	33 41		
	ePS·NE	36 15		
	e·N	36 23		
	eSS·N	41 54		
	L·NE	21.9		
	Δ = 103°. South of Africa.			
5	*L·NE*	3 18		
5	*e·Z*	4 49 35		
	e·NE	5.9		
6	*iP·Z′*	0 15 03		
	Δ = 70°. Kamchatka.			
7	*L·NE*	6 28		
7	*iPKP·Z′Z*	19 59 22		
	Δ = 140°. *h* = 550 km. Fiji Islands.			
8	*L·NE*	20 17		
8	*eS·NE*	22 52 43		
	L·E	23 00		
	Δ = 66°. Ascension Island region.			
9	*ePP·ZE*	2 48 35		
	eSKS·E	54 38		
	e·N	56 18		
	L·NE	3 20		
	Δ = 110°. New Guinea.			
10	*e·N*	20 36 13		
	e·NE	39 23		
	L·NE	42		
11	*L·NE*	22 40		
13	*L·NE*	16 34		
14	*eP·Z′*	2 49 28		
	eS·NE	53 42		
	L·NE	57		
	Δ = 24°. Mediterranean Sea.			

August

14 *iP·Z′Z* 18h46m08s –
Δ = 145°. *h* = 200 km. Tonga Islands region.

14 *L·NE* 20 53

15 *e·Z′* 5 24 31
i·Z′ 24 37
iLs·Z′ 24 40
Δ = 8.4 km. Air crash. Southern port of København.

15 *eSKS·NE* 21 09 39
e·NE 11 07
eSS·N 20 35
Δ = 121°. *h* = 500 km. Solomon Islands region.

16 *eSS·E* 12 34.2
eL·NE 55
Δ = 121°. New Britain.

16 *ePP·N* 23 49 15
eSKS·NE 56 07
eS·N 56 45
e·E 57 42
ePS·NE 58 06
eSS·NE 24 03 08
eL·NE 13
M·E 23 28s. 25 μ.

17 *eP·Z′* 12 51 59
iP·Z′ 52 00
i(pP)·Z′ 53 22
Δ = 84°. Bonin Islands region.

18 *L·NE* 8 00

18 *eP·Z′* 8 50 06
e·NE 9 01 09
ePS·E 02 03
L·E 20
M·NE 26 25s. *N*: 50 μ, *E*: 25 μ.
Δ = 93°. Philippine Islands. No *Z*-record.

18 *iP·Z′* 21 53 47
eS·NE 22 02 53
eScS·NE 03 44
L·NE 16
M·NE 28 18s. *N*: 35 μ, *E*: 25 μ.
Δ = 70°. Kurile Islands. No *Z*-record.

19 *L·NE* 7 36

19 *ePP·Z* 11 55 58
ePKS·NE 57 08
e·Z 12 01 20
eL·NE 36
Δ = 128°. Solomon Islands.

August

19 *iP·Z′Z* 21h43m30s *Z′*: –
eL·NE 22.2
Δ = 73°. Aleutian Islands.

20 *eSS·E* 7 05 37
L·NE 28
Δ = 128°. Solomon Islands.

20 *ePP·Z* 12 23 14
ePKS·NE 24.3
eSS·E 40.4
eSSS·E 45.2
eL·NE 13.0
Δ = 128°. Solomon Islands.

20 *L·N* 22 58

22 *M·NE* 6 54

23 *ePP·Z* 2 20 38
eSS·N 36.7
L·NE 55
Δ = 122°. New Britain region.

23 *L·NE* 12 25

26 *eP·Z* 11 42 31
ePP·Z 46 47
eSKS·NE 53 11
ePS·E 55 24
ePPS·N 56 14
eSS·NE 12 00.7
L·N 13
Δ = 98°. Southern Bolivia.

26 *eP·Z* 14 12 09
iSKS·E 22 42
iS·NE 23 20 19s. *N*: + 6 μ, *E*: + 4 μ.
ePS·E 24 30 15s. 6 μ.
ePPS·N 25 09
SS·E 29.5
L·NE 44
Δ = 93°. Near coast of Ecuador.

27 *L·NE* 12 00

28 *ePP·Z* 23 39 29
eSKS·N 46.2
eSS·N 53 16
L·NE 24 10
Δ = 94°. Mariana Islands.

August

30 *iP·Z′* 16h25m55s +
iPP·Z′ZE 27 36 *E*: +
eS·N 32 17
iS·E 32 19 –
eSS·N 35 11
L·N 39 02
Δ = 43°. Tadshik S.S.R.

30 *eS·E* 20 26 49
L·NE 42
Δ = 83°. South of Formosa.

31 *L·NE* 0 38

31 *L·E* 12.1

31 *L·E* 12 26.5

September

1 *ePP·E* 12 59 47
eS·N 13 04 31
eSS·N 07.5
L·NE 11
Δ = 44°. Sinkiang Province, China.

2 *eSKS·E* 0 24 07
eSS·E 31.5
L·NE 49
Δ = 97°. Mariana Islands.

2 *eSKKS·N* 10 15.8
e·E 16 48
ePPS·E 21 18
L·N 59
Δ = 139°. Samoa Islands.

2 *iP·Z′* 14 31 45
e·NE 32 21
eS·NE 41 15
L·NE 55
E = 73°. Aleutian Islands. No *Z*-record.

2 *iP·Z′* 21 35 22 +
e·E 35 25 6s. + 2 *μ*.
ipP·Z′ 36 11
esP·Z′E 36 33
iPP·Z′E 37 08
i·E 38 12 8s. + 2 *μ*.
eS·N 41 36 10s. – 3 *μ*.
iS·E 41 41
esS·NE 42 51
eSS·N 44 35
i·E 45 09 13s. 7 *μ*.
Δ = 43°. *h* = 200 km. Hindu Kush.

September

3 *eP·ZNE* 20h28m52s
eS·NE 33 06
L·NE 36.0
Δ = 24°. USSR.

4 *L·NE* 5 26

5 *eP·Z* 11 43 43
eS·NE 49 42
L·NE 55.5
Δ = 39°. Southern Iran.

6 *eP·Z* 5 06 15
eS·N 15 47
L·E 30
Δ = 74°. Aleutian Islands.

6 *L·ZNE* 20 30
Southern Yugoslavia.

7 *eP·Z* 6 59 52
e·E 7 09 50
L·NE 26
Δ = 70°. Kurile Islands.

7 *iP·Z′* 10 18 18
e·Z 18 27
iPP·ZN 21 08 *Z*: –.
eS·N 27 41
ePS·N 27 57
L·NE 42
Δ = 72°. Aleutian Islands.

9 *L·NE* 1 18

9 *L·NE* 10 08

10 *L·N* 6 50

10 *L·ZE* 20 31

12 *iP·Z* 0 40 19 +
iPP·Z 43 22 –
eS·NE 50 22
ePS·N 50 44
eSS·E 55 46
L·NE 1 05
Δ = 79°. North of Honduras.

15 *L·NE* 19.7

15 *L·NE* 22.8

16 *L·NE* 1 59

September			
16	$e \cdot N$	$14^h33^m10^s$	
	$e \cdot E$	33 13	
	$eL \cdot N$	49	
	$eL \cdot E$	51	
18	$eL \cdot NE$	1 38	
19	$eP \cdot Z'$	17 34 46	
	$eS \cdot ZN$	38 51	
	$eL \cdot E$	44.5	
	$\Delta = 23°$. West of Svalbard.		
20	$L \cdot NE$	2 30	
21	$iP \cdot Z'Z$	20 21 36	
	$eP \cdot NE$	21 38	
	$iS \cdot NE$	25 24	N: +
	$iS \cdot Z$	25 28	+
	$L \cdot NE$	28	
	$\Delta = 21°$. Turkey.		
24	$eP \cdot ZN$	8 34 48	5^s. Z: + 2 μ.
	$e \cdot Z$	38 19	6^s. − 3 μ.
	$iPP \cdot Z$	39 06	8^s. 8 μ.
	$e \cdot E$	44 39	10^s. 5 μ.
	$e \cdot N$	44 48	6^s. 4 μ.
	$eSKS \cdot E$	45 32	10^s. − 3 μ.
	$iSKS \cdot N$	45 36	9^s. − 4 μ.
	$iS \cdot E$	46 06	8^s. + 8 μ.
	$iS \cdot N$	46 11	6^s. + 4 μ.
	$SS \cdot N$	53 36	
	$\Delta = 94°$. Philippine Islands.		
25	$eP \cdot Z$	5 58 48	
	$iS \cdot NE$	6 05 00	12^s. 2 μ.
	$L \cdot NE$	08	
	$\Delta = 41°$. Azores region.		
25	$eP \cdot Z$	16 50 22	
	$ePP \cdot Z$	54 26	
	$eSKS \cdot E$	17 01 20	
	$e \cdot E$	04.0	
	$L \cdot NE$	25	
	Philippine Islands aftershock.		
25	$L \cdot NE$	23 07	
26	$L \cdot NE$	0 23	
26	$e(SKS) \cdot E$	19 11 02	
	$e(S) \cdot NE$	11 30	
	$L \cdot NE$	38	
	Philippine Islands aftershock.		

September			
27	$ePP \cdot E$	$4^h26.8$	
	$eSKS \cdot E$	33.3	
	$eSS \cdot N$	41 27	
	$eSSS \cdot E$	45.7	
	$L \cdot NE$	5 00	
	$\Delta = 105°$. Moluccas.		
28	$iP \cdot Z'$	0 39 03	
	$iS \cdot N$	48 36	8^s. + 5 μ.
	$iS \cdot E$	48 37	7^s. − 5 μ.
	$esS \cdot NE$	51 37	
	$L \cdot NE$	1.2	
	$\Delta = 82°$. $h = 500$ km. South of Honshu, Japan.		
28	$iPKP \cdot Z'ZNE$	14 38 31	9^s. N: + 13 μ, E: + 5 μ, Z: − 40 μ.
	$ipPKP \cdot Z$	40 49	10^s. + 10 μ.
	$isPKP \cdot N$	41 49	
	$iPP \cdot N$	42 05	
	$i \cdot N$	47 48	
	$iSS \cdot NE$	59 52	15^s. N: − 20 μ, E: + 25 μ.
	$\Delta = 144°$. $h = 600$ km. Fiji Islands.		
29	$L \cdot NE$	3.6	
29	$ePKP \cdot Z'$	8 32 03	
	$i \cdot Z'Z$	32 07	Z: 4^s. − 3 μ.
	$ipPKP \cdot Z'Z$	34 18	Z: 5^s. − 5 μ.
	$isPKP \cdot Z$	35 13	8^s. − 4 μ.
	$i \cdot Z$	38 34	
	$\Delta = 148°$. $h = 600$ km. South of Fiji Islands.		
29	$L \cdot NE$	18.5	
30	$L \cdot NE$	21 10	

October 1957. HENRY JENSEN

Microseisms. København

1957	*Z*				*N*				*E*				1957
July	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	July
1	2 0.1 4.2	2 0.2 4.5	2 0.2 2.9	2 0.2 2.8	2 02. 4.5	2 0.2 4.0	2 0.3 2.7	2 0.3 2.8	2 0.2 4.0	2 0.2 4.0	2 0.2 2.7	2 0.2 2.7	1
2	2 0.2 2.5	2 0.2 2.6	2 0.2 2.5	2 0.2 2.6	2 0.2 2.6	2 0.2 2.6	2 0.2 2.5	2 0.3 2.7	2 0.1 2.5	2 0.2 2.1	2 0.2 2.4	2 0.2 3.0	2
3	2 0.2 2.7	2 0.2 3.6	2 0.2 4.0	2 0.2 4.0	2 0.4 3.1	2 0.3 3.6	2 0.2 3.7	2 0.2 3.9	2 0.2 3.5	2 0.3 3.4	2 0.2 4.2	2 0.2 3.9	3
4	2 0.1 3.8	2 0.1 4.0	2 0.1 3.6	2 0.1 3.7	2 0.2 3.9	2 0.2 3.4	2 0.2 3.4	2 0.2 3.6	2 0.2 3.7	2 0.2 3.2	2 0.2 3.8	2 0.2 3.8	4
5	2 0.1 4.0	2 0.1 3.6	.. ..	.. ..	2 0.2 3.7	2 0.1 3.7	.. ..	.. ..	2 0.1 3.6	2 0.1 3.5	.. ..	.. ..	5
6	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	6
7	2 0.1 3.6	.. ..	.. ..	.. ..	2 0.2 3.4	.. ..	2 0.4 3.7	.. ..	2 0.2 3.2	.. ..	2 0.2 3.5	.. ..	7
8	.. ..	.. ..	2 0.2 3.9	2 0.2 3.6	2 0.4 2.9	2 0.3 3.3	2 0.5 3.4	2 0.6 3.2	2 0.2 3.0	2 0.4 3.5	2 0.4 3.3	2 0.5 3.3	8
9	2 0.4 3.6	2 0.5 3.7	2 0.4 3.7	2 0.6 3.7	2 0.6 3.6	2 0.6 3.2	2 0.4 3.5	2 0.5 3.7	2 0.6 3.7	2 0.7 3.7	2 0.6 3.5	2 0.4 3.5	9
10	2 0.4 3.5	2 0.2 3.5	2 0.1 3.7	2 0.1 3.7	2 0.4 3.4	2 0.4 3.5	2 0.3 3.5	2 0.2 3.5	2 0.4 3.5	2 0.3 3.6	2 0.2 3.5	2 0.2 3.4	10
11	.. ..	2 0.1 3.6	2 0.1 3.4	2 0.1 3.6	2 0.2 3.9	2 0.1 3.5	2 0.2 3.3	2 0.2 3.6	2 0.2 3.4	2 0.2 3.3	2 0.2 3.5	2 0.2 3.9	11
12	2 0.1 3.4	2 0.2 3.4	2 0.2 3.9	2 0.2 4.0	2 0.2 3.4	2 0.3 3.5	2 0.5 3.7	2 0.5 3.6	2 0.3 3.4	2 0.6 3.2	2 0.4 3.9	2 0.5 3.7	12
13	2 0.2 3.7	2 0.3 3.6	2 0.2 3.8	2 0.3 3.6	2 0.5 3.4	2 0.4 3.5	2 0.6 3.4	2 0.4 3.7	2 0.6 3.2	2 0.6 3.5	2 0.6 3.6	2 0.5 3.5	13
14	2 0.2 3.9	2 0.3 3.9	2 0.4 3.5	2 0.3 3.6	2 0.6 4.0	2 0.5 3.9	2 0.6 3.7	2 0.5 3.8	2 0.6 3.5	2 0.6 3.8	2 0.6 3.9	2 0.5 3.9	14
15	2 0.3 3.7	2 0.2 3.6	2 0.2 3.6	2 0.1 3.7	2 0.5 3.7	2 0.3 3.7	2 0.3 3.5	2 0.2 3.6	2 0.5 3.7	2 0.5 3.9	2 0.3 3.6	2 0.2 3.5	15
16	.. ..	2 0.1 3.6	2 0.1 3.4	.. ..	.. ..	2 0.1 3.2	.. ..	.. ..	.. ..	2 0.2 3.0	2 0.2 3.0	.. ..	16
17	.. ..	2 0.1 3.5	.. ..	2 0.2 3.5	2 0.8 3.2	2 0.4 3.5	.. ..	2 0.3 3.6	2 0.1 3.5	2 0.3 3.5	.. ..	2 0.4 3.8	17
18	2 0.2 3.6	.. ..	2 0.2 3.4	2 0.1 3.8	2 0.3 3.4	2 0.2 3.8	2 0.2 3.7	2 0.2 3.6	2 0.4 3.5	2 0.4 3.2	2 0.4 3.7	2 0.2 3.5	18
19	.. ..	.. ..	2 0.2 3.1	2 0.1 3.1	2 0.1 3.5	2 0.1 3.5	2 0.2 3.4	2 0.2 3.3	2 0.1 3.5	2 0.2 3.3	2 0.2 3.4	2 0.4 3.0	19
20	2 0.1 3.2	2 0.2 3.3	.. ..	2 0.2 2.6	2 0.3 3.0	2 0.2 3.3	.. ..	2 0.3 2.9	2 0.4 3.0	2 0.1 3.5	.. ..	2 0.2 1.9	20
21	2 0.1 2.2	2 0.1 3.0	.. ..	.. ..	2 0.2 1.5	2 0.4 2.0	2 0.1 2.1	2 0.1 2.3	2 0.2 2.0	2 0.1 1.6	2 0.2 3.2	2 0.2 3.4	21
22	.. ..	.. ..	.. ..	2 0.1 2.7	2 0.2 2.4	2 0.2 2.5	2 0.2 2.9	2 0.2 2.5	2 0.2 3.0	2 0.2 3.1	2 0.2 2.9	2 0.2 2.6	22
23	2 0.1 2.7	2 0.1 2.4	.. ..	.. ..	2 0.1 2.5	2 0.3 2.0	2 0.1 2.6	2 0.1 2.5	2 0.2 2.4	2 0.1 2.0	2 0.2 2.4	2 0.2 2.5	23
24	.. ..	.. ..	.. ..	.. ..	2 0.2 2.9	2 0.2 2.6	2 0.2 3.2	2 0.2 3.2	2 0.2 3.2	2 0.2 3.4	2 0.2 2.7	2 0.2 2.7	24
25	.. ..	.. ..	.. ..	2 0.1 3.0	2 0.2 3.0	2 0.3 3.0	2 0.2 2.6	2 0.2 2.5	2 0.3 2.9	2 0.4 2.4	2 0.1 2.5	2 0.1 2.4	25
26	2 0.2 2.6	2 0.2 2.8	.. ..	2 0.2 3.4	2 0.2 2.7	2 0.2 3.0	2 0.2 3.7	2 0.2 3.5	2 0.2 2.4	2 0.2 2.5	2 0.3 3.4	2 0.5 3.0	26
27	2 0.2 3.6	2 0.2 3.7	.. ..	2 0.2 3.7	2 0.2 3.5	2 0.4 3.7	2 0.3 3.7	2 0.2 3.9	2 0.4 3.1	2 0.5 3.5	2 0.4 3.6	2 0.4 3.7	27
28	2 0.2 3.7	2 0.1 3.5	.. ..	2 0.1 3.0	2 0.2 3.7	2 0.3 3.7	.. ..	2 0.2 2.6	2 0.4 3.9	2 0.3 3.6	.. ..	2 0.3 2.5	28
29	2 0.1 2.7	2 0.2 2.6	.. ..	.. ..	2 0.2 2.6	2 0.2 2.7	2 0.2 2.5	.. ..	2 0.4 2.4	2 0.4 2.3	2 0.2 2.4	.. ..	29
30	2 0.2 3.5	2 0.2 3.3	2 0.3 3.0	2 0.3 3.4	2 0.2 3.3	2 0.2 3.4	2 0.4 2.8	2 0.4 3.2	2 0.2 3.0	2 0.4 2.5	2 0.2 2.5	2 0.2 3.5	30
31	2 0.2 2.9	2 0.2 3.3	.. ..	.. ..	2 0.2 3.4	2 0.2 3.7	2 0.2 3.4	2 0.3 3.6	2 0.2 2.7	2 0.2 2.8	2 0.3 3.2	2 0.4 2.5	31

Microseisms. København

1957 August	*Z* 0h	6h	12h	18h	*N* 0h	6h	12h	18h	*E* 0h	6h	12h	18h	1957 August
1	.. ..	.. ..	.. ..	.. ..	2 0.2 2.7	2 0.2 2.3	2 0.2 2.4	2 0.2 2.4	2 0.3 2.1	2 0.2 2.4	2 0.1 2.0	2 0.2 1.8	1
2	.. ..	.. ..	2 0.2 2.7	2 0.2 3.2	2 0.2 3.0	2 0.3 2.6	2 0.2 2.7	2 0.4 2.4	2 0.2 2.6	2 0.4 2.5	2 0.2 2.7	2 0.4 2.6	2
3	2 0.3 2.5	2 0.2 2.7	2 0.2 2.5	2 0.2 3.0	2 0.3 2.7	2 0.2 2.9	2 0.2 3.0	2 0.3 3.0	2 0.2 2.6	2 0.2 2.1	2 0.2 2.5	2 0.2 2.4	3
4	2 0.2 2.7	2 0.1 2.9	2 0.1 2.1	2 0.1 2.3	2 0.2 2.5	2 0.2 2.5	.. ..	.. ..	2 0.3 2.5	2 0.2 2.7	2 0.1 2.4	2 0.1 2.7	4
5	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	5
6	.. ..	.. ..	2 0.1 4.0	2 0.1 3.8	.. ..	.. ..	2 0.1 3.0	2 0.2 3.0	.. ..	.. ..	2 0.2 3.1	2 0.1 2.8	6
7	2 0.1 3.5	2 0.1 3.5	2 0.2 3.3	2 0.2 3.9	2 0.2 3.4	2 0.2 3.5	2 0.2 3.0	2 0.2 3.6	2 0.2 3.1	2 0.2 3.0	2 0.2 3.2	2 0.2 3.7	7
6	2 0.2 3.9	2 0.2 3.5	2 0.2 3.7	2 0.2 3.4	2 0.2 3.4	2 0.2 4.0	2 0.2 3.8	2 0.1 3.5	2 0.2 3.5	2 0.2 3.5	2 0.2 3.5	2 0.1 3.7	8
9	.. ..	2 0.1 2.4	2 0.2 2.5	2 0.4 2.6	2 0.1 2.5	2 0.2 2.6	2 0.2 2.5	2 0.2 2.6	2 0.1 3.3	2 0.2 2.1	2 0.4 2.3	2 0.6 2.4	9
10	2 0.2 2.5	2 0.2 2.9	2 0.2 3.7	2 0.3 3.3	2 0.4 2.9	2 0.4 2.5	2 0.6 3.3	2 0.6 3.2	2 0.4 2.8	2 0.4 3.1	2 0.7 2.9	2 0.6 3.1	10
11	2 0.2 3.2	2 0.3 3.1	2 0.4 3.7	1 0.5 3.4	2 0.6 2.9	2 0.6 3.2	2 0.6 3.7	1 0.6 4.2	2 0.7 3.0	2 0.6 3.5	2 0.6 3.7	1 0.7 3.9	11
12	1 0.6 4.0	1 0.8 4.4	1 1.0 4.2	1 0.7 4.1	1 0.8 3.8	1 0.9 3.7	1 1.1 4.0	1 0.8 4.2	1 1.1 3.9	1 1.1 4.3	1 1.2 4.4	1 1.0 3.7	12
13	2 0.5 3.4	2 0.3 3.7	2 0.3 3.0	2 0.2 3.3	2 0.6 3.5	2 0.6 4.0	2 0.4 3.4	2 0.4 3.3	2 0.6 3.7	2 0.5 3.6	2 0.4 3.4	2 0.5 3.0	13
14	2 0.2 3.0	2 0.2 3.6	2 0.2 3.4	2 0.2 3.4	2 0.4 3.3	2 0.4 3.4	2 0.5 3.1	2 0.4 3.3	2 0.4 2.7	2 0.5 2.9	2 0.3 3.3	2 0.4 3.1	14
15	2 0.2 3.5	2 0.3 3.5	2 0.4 3.6	2 0.5 3.3	2 0.5 3.3	2 0.6 3.4	2 0.6 3.5	2 0.6 3.3	2 0.4 3.7	2 0.6 3.4	2 0.6 3.7	2 0.8 3.4	15
16	2 0.4 3.1	2 0.2 3.5	2 0.2 3.4	2 0.2 3.5	2 0.6 3.3	2 0.3 3.3	2 0.4 3.0	2 0.2 3.3	2 0.5 3.2	2 0.4 3.4	2 0.5 2.6	2 0.4 3.0	16
17	.. ..	2 0.1 3.6	.. ..	.. ..	.. ..	2 0.2 3.2	2 0.3 2.9	2 0.4 2.9	.. ..	2 0.4 2.7	2 0.2 3.4	2 0.3 2.8	17
18	.. ..	.. ..	2 0.1 2.8	2 0.2 2.7	2 0.3 3.6	2 0.3 3.4	2 0.2 2.5	2 0.2 2.7	2 0.4 2.8	2 0.3 3.7	2 0.1 2.4	2 0.2 2.5	18
19	2 0.2 2.9	2 0.3 2.7	2 0.1 2.7	2 0.2 2.7	2 0.3 3.0	2 0.2 2.5	2 0.2 2.7	2 0.2 2.7	2 0.3 2.6	2 0.2 2.5	2 0.2 2.5	2 0.2 2.5	19
20	2 0.2 2.8	2 0.2 2.9	2 0.2 2.8	2 0.2 3.5	2 0.3 2.9	2 0.3 2.6	2 0.3 3.5	2 0.6 3.6	2 0.4 2.4	2 0.4 2.9	2 0.4 3.5	2 0.3 3.7	20
21	2 0.3 3.2	2 0.3 3.4	.. ..	.. ..	2 0.6 3.4	2 0.7 3.3	2 0.6 4.0	1 0.6 3.9	2 0.8 2.9	2 0.7 3.4	1 0.7 3.7	1 0.6 3.6	21
22	.. ..	.. ..	1 0.6 4.4	1 0.6 4.5	1 0.6 4.0	1 0.6 4.3	1 0.6 4.6	1 0.6 4.5	1 0.6 3.9	1 0.7 3.7	1 0.7 4.0	1 0.7 4.1	22
23	1 0.6 4.1	1 0.6 4.5	1 0.4 4.2	1 0.4 3.5	1 0.6 4.4	1 0.7 4.4	1 0.6 4.2	1 0.6 4.0	1 0.6 4.1	1 0.6 4.0	1 0.6 4.6	1 0.6 3.9	23
24	1 0.5 4.2	1 0.4 4.2	2 0.6 3.6	2 0.6 4.0	1 0.6 4.0	1 0.6 3.9	1 0.6 3.9	2 0.7 3.6	1 0.6 3.9	1 0.8 3.8	1 0.8 3.4	1 1.0 3.3	24
25	2 0.6 3.6	2 0.6 3.9	1 0.7 3.5	1 0.8 3.3	2 0.6 4.0	2 0.6 3.5	1 0.6 3.6	1 1.1 3.5	1 0.6 3.9	1 1.1 4.3	1 1.2 3.7	1 1.0 4.0	25
26	2 0.7 3.5	2 0.4 3.2	2 0.3 2.8	2 0.4 3.0	1 0.9 3.6	2 0.7 3.1	2 0.3 3.5	2 0.4 3.0	1 0.7 3.9	2 0.6 3.0	2 0.2 2.7	2 0.4 2.9	26
27	2 0.3 2.9	2 0.3 3.4	2 0.2 3.1	2 0.2 2.8	2 0.3 3.0	2 0.3 2.6	2 0.3 3.0	2 0.3 2.7	2 0.3 3.2	2 0.4 2.8	2 0.3 2.6	2 0.3 2.7	27
28	2 0.2 2.9	2 0.2 3.0	2 0.2 3.0	2 0.1 3.0	2 0.2 2.9	2 0.2 2.8	2 0.2 2.8	2 0.2 3.0	2 0.4 2.4	2 0.4 2.3	2 0.2 2.7	2 0.2 3.1	28
29	2 0.2 3.1	2 0.2 3.0	2 0.2 2.8	2 0.2 2.5	2 0.2 3.0	2 0.2 3.0	2 0.4 3.0	2 0.4 2.6	2 0.2 2.9	2 0.2 3.2	2 0.4 2.5	2 0.2 2.6	29
30	2 0.1 2.6	2 0.2 3.2	2 0.2 2.4	.. ..	2 0.2 2.4	2 0.4 2.3	2 0.4 3.1	2 0.4 2.5	2 0.4 2.4	2 0.4 2.0	2 0.3 2.7	2 0.4 2.7	30
31	.. ..	.. ..	.. ..	.. ..	2 0.2 3.0	2 0.2 2.0	.. ..	.. ..	2 0.3 2.7	2 0.2 2.4	2 0.2 2.3	2 0.2 2.2	31

Microseisms. København

1957	*Z*				*N*				*E*				1957
Sept.	0h	6h	12h	18h	0h	6h	12h	18h	0h	6h	12h	18e	Sept.
1	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	2 0.2 2.5	2 0.2 1.9	2 0.2 2.3	2 0.2 2.1	1
2	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	2 0.1 2.5	2 0.1 2.6	2 0.1 2.1	2 0.3 1.9	2 0.1 2.9	2 0.1 3.0	2
3	.. ..	.. ..	2 0.1 2.–	2 0.1 2.–	2 0.2 2.7	2 0.2 2.7	2 0.2 2.5	2 0.2 2.6	2 0.2 2.5	2 0.1 2.0	2 0.2 2.5	2 0.2 2.2	3
4	2 0.1 2.–	2 0.1 2.–	2 0.1 3.0	2 0.1 3.7	2 0.2 2.7	2 0.1 2.3	2 0.1 3.1	2 0.1 3.3	2 0.2 2.0	2 0.1 2.0	2 0.1 3.3	2 0.1 3.0	4
5	2 0.1 4.0	2 0.2 3.4	2 0.4 2.9	2 0.4 3.0	2 0.2 3.0	2 0.4 3.0	2 0.2 3.1	2 0.2 2.6	2 0.2 3.1	2 0.4 3.0	2 0.2 3.2	2 0.3 2.7	5
6	2 0.3 2.9	2 0.2 3.5	2 0.2 3.5	2 0.2 3.4	2 0.3 3.1	2 0.3 3.5	2 0.5 3.2	2 0.3 3.2	2 0.4 3.0	2 0.4 3.0	2 0.4 3.3	2 0.4 3.0	6
7	2 0.3 3.3	2 0.2 3.5	2 0.3 4.0	2 0.4 3.7	2 0.6 3.1	2 0.5 3.5	2 0.5 4.1	2 0.6 3.8	2 0.6 3.3	2 0.6 3.7	2 0.6 3.5	2 0.7 3.8	7
8	2 0.6 4.2	2 0.6 3.6	2 0.6 4.2	1 0.7 3.7	2 0.6 4.0	2 0.6 3.5	2 0.6 3.7	1 0.7 4.0	2 0.6 4.0	2 0.6 4.3	1 0.6 4.4	1 0.7 4.2	8
9	1 0.7 3.7	1 0.6 3.7	1 0.5 4.0	1 0.4 4.0	1 0.6 4.5	1 0.6 4.5	1 0.6 4.3	1 0.5 4.3	1 0.8 4.4	1 0.7 4.1	1 0.7 4.0	1 0.7 3.8	9
10	1 0.3 4.0	1 0.4 3.9	1 0.7 3.7	1 0.6 4.0	1 0.6 3.8	1 0.7 3.7	1 0.7 3.9	1 0.7 4.0	1 0.7 3.7	1 0.8 3.9	1 0.8 3.7	1 0.8 4.1	10
11	1 0.6 4.2	2 0.6 4.0	2 0.4 4.3	2 0.4 2.9	2 0.7 3.7	2 0.6 4.2	2 0.6 3.5	2 0.7 3.2	2 0.8 3.7	2 0.8 3.9	2 0.6 4.2	2 0.7 4.0	11
12	1 0.4 3.4	1 0.4 3.3	1 0.6 3.7	1 0.5 3.4	1 0.8 3.2	1 0.7 3.3	1 0.7 3.6	1 0.7 3.6	1 0.6 2.9	1 0.7 3.0	1 0.8 3.6	1 1.0 3.7	12
13	1 0.8 3.5	1 0.8 3.0	1 0.8 3.0	1 0.8 3.1	1 0.8 3.8	1 0.8 3.9	1 0.7 3.5	1 0.8 3.7	1 1.0 3.6	1 1.0 3.5	1 0.9 3.6	1 1.1 3.3	13
14	1 0.8 3.3	1 0.8 3.4	1 0.8 3.5	1 0.8 3.5	1 1.1 3.3	1 1.2 3.9	1 1.0 3.6	1 1.2 3.3	1 1.0 3.4	1 0.9 3.4	1 1.2 3.5	1 1.2 3.7	14
15	1 1.0 3.4	2 0.8 3.5	2 0.7 3.6	2 0.8 3.3	1 1.0 3.8	2 1.0 3.9	2 0.8 3.5	2 0.8 3.6	1 0.8 3.6	2 1.0 3.5	2 0.9 3.5	2 0.9 3.8	15
16	2 0.7 3.1	2 0.4 3.3	2 0.4 3.3	2 0.4 3.2	2 0.6 3.4	2 0.4 3.3	2 0.5 3.5	2 0.6 3.5	2 0.7 3.0	2 0.6 3.5	2 0.5 3.5	2 0.5 3.5	16
17	2 0.3 3.6	2 0.2 3.0	2 0.3 3.0	2 0.2 3.5	2 0.4 3.3	2 0.4 3.6	2 0.4 3.3	2 0.3 3.0	2 0.5 3.3	2 0.5 4.0	2 0.5 3.3	2 0.4 3.4	17
18	.. ..	.. ..	2 0.2 3.3	2 0.4 3.3	2 0.4 3.5	2 0.3 3.0	2 0.4 3.3	2 0.3 3.3	2 0.4 3.6	2 0.4 3.0	2 0.4 3.3	2 0.4 3.4	18
19	2 0.4 3.6	2 0.4 3.0	1 0.6 3.6	1 0.6 3.3	2 0.4 3.4	2 0.4 2.9	1 0.7 3.5	1 0.6 3.5	2 0.5 3.3	2 0.6 2.6	1 0.8 3.2	1 0.7 3.0	19
20	2 0.4 3.2	2 0.2 3.2	2 0.2 3.3	2 0.2 3.7	2 0.4 3.4	2 0.3 3.5	2 0.2 3.5	.. ..	2 0.4 3.4	2 0.5 3.1	2 0.3 3.6	.. ..	20
21	2 0.3 4.0	2 0.2 4.2	2 0.3 3.5	2 0.3 4.1	.. ..	.. ..	2 0.5 4.2	2 0.4 4.0	.. ..	.. ..	2 0.4 4.3	2 0.4 4.4	21
22	2 0.2 4.5	2 0.2 4.0	2 0.3 4.5	2 0.2 4.0	2 0.5 4.2	2 0.4 4.2	2 0.5 4.0	2 0.4 4.2	2 0.4 4.4	2 0.4 4.4	2 0.5 4.1	2 0.5 4.1	22
23	2 0.2 4.4	2 0.2 4.5	2 0.4 3.6	2 0.4 3.3	2 0.4 4.0	2 0.3 4.0	2 0.4 3.6	2 0.4 3.5	2 0.4 4.3	2 0.4 4.0	2 0.5 4.2	2 0.4 3.6	23
24	2 0.2 3.5	2 0.2 3.5	2 0.7 3.1	2 0.7 3.0	2 0.3 3.6	2 0.3 4.1	2 0.9 3.8	2 1.1 3.4	2 0.4 3.7	2 0.5 3.5	2 1.4 3.2	2 1.1 3.2	24
25	2 0.7 3.0	2 0.4 3.0	2 0.4 3.1	2 0.3 3.1	2 0.7 3.1	2 0.4 3.5	2 0.4 2.8	2 0.4 2.9	2 0.9 3.6	2 0.9 2.9	2 0.6 2.7	2 0.4 2.6	25
26	2 0.1 3.1	2 0.2 2.7	2 0.1 3.2	2 0.2 2.6	2 0.3 3.1	2 0.3 3.3	2 0.3 3.5	2 0.4 3.2	2 0.3 2.7	2 0.3 2.7	2 0.3 2.6	2 0.3 2.8	26
27	2 0.3 3.2	1 0.4 3.2	1 0.7 4.0	1 0.8 3.5	2 0.4 3.4	1 0.6 3.4	1 0.9 3.3	1 0.8 4.0	2 0.5 2.8	1 0.8 3.2	1 1.0 4.2	1 1.2 3.9	27
28	1 0.7 3.5	1 0.8 3.7	1 0.7 3.8	1 0.7 3.8	1 0.8 3.6	1 0.9 3.7	1 0.9 4.2	1 1.2 4.2	1 1.0 3.5	1 1.2 3.6	1 1.0 4.2	1 1.0 4.0	28
29	1 0.8 3.9	1 0.7 3.6	1 0.7 3.5	2 0.5 3.8	1 1.1 4.0	1 0.8 4.7	1 0.7 3.8	2 0.7 3.9	1 0.9 4.4	1 0.8 4.0	1 0.7 3.6	2 0.7 3.5	29
30	2 0.5 3.4	2 0.3 3.4	2 0.4 4.6	2 0.2 4.2	2 0.7 3.5	2 0.6 3.4	2 0.6 3.8	2 0.4 4.6	2 0.6 3.4	2 0.7 3.5	2 0.6 3.5	2 0.5 3.6	30