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**No. 74** **July-Sept. 1958**

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, $\mu^2 = 0$, $\frac{Ak}{\pi l} = 260\ \text{sec}^{-1}$ or $V_{max}$ = abt. 1000.
Benioff. *Z'*. $T_p = 1$ sec, $T_g = {}^1/_4$ sec, $V_{max}$ = abt. 30000.
Wiechert 1000 kg. *N* and *E*. $T = 8^1/_2$ sec, $\nu = 6:1$, $\varrho = 0.3$ mm, $V_0 = 210$.
Wiechert 1300 kg. *Z*. $T = 6$ sec, $\nu = 4:1$, $\varrho = 0.3$ 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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# København 1958

| July | | | |
|---|---|---|---|
| 1 | *iP·Z* | $6^h04^m38^s$ | + |
| | *eS·E* | 14 08 | |
| | *L·E* | 29 | |
| | $\Delta = 73°$. Aleutian Islands. | | |
| 3 | *eP·Z* | 5 57 57 | |
| | *e·Z'* | 58 07 | |
| | *eSKS·N* | 6 08 22 | |
| | *i·E* | 08 37 | |
| | $\Delta = 87°$. Mascarene Islands. | | |
| 3 | *iPKP1·Z'Z* | 6 46 52 | |
| | *i·Z'Z* | 46 59 | |
| | *iPKP2·Z'Z* | 47 10 | |
| | *epPKP1·Z* | 48.5 | |
| | *epPKP2·Z* | 48 44 | |
| | *isPKP2·Z* | 49 26 | |
| | *iPP·ZN* | 50 44 | |
| | $\Delta = 151°$. $h = 400$ km. Kermadec Islands. | | |
| 4 | *ePP·ZE* | 18 51 40 | |
| | *eSKS·E* | 58 10 | |
| | *L·E* | 19 26 | |
| | $\Delta = 98°$. Philippine Islands. | | |
| 5 | *iP·Z'* | 1 30 18 | |
| | Southeastern Asia? | | |
| 5 | *e(P)·Z'* | 2 11 04 | perhaps a little earlier. |
| | *e(S)·E* | 15.7 | |
| | *e(Lg)·ZE* | 18 02 | per. $4^s$. |
| | Caucasia. | | |
| 5 | *eP·Z* | 23 34 09 | |
| | *eS·NE* | 44 28 | |
| | *L·NE* | 24 05 | |
| | $\Delta = 82°$. Eastern Asia. | | |
| 6 | *L·NE* | 5 03 | |
| 6 | *L·NE* | 20 33 | |
| 7 | *eP·Z* | 5 27 47 | |
| | *eS·NE* | 37 18 | |
| | $\Delta = 73°$. Aleutian Islands. | | |
| 8 | *iP·Z'* | 5 03 42 | + |
| | *ePg·ZE* | 04 04 | |
| | *eS·E* | 04 32 | |
| | *eSg·E* | 05 05 | |
| | *i·ZE* | 05 22 | |
| | $\Delta = 5°$. Thüringer Wald, Germany. | | |
| July | | | |
| 8 | *iPKP·Z* | $6^h26^m10^s$ | + |
| | $\Delta = 145°$. Tonga Islands. | | |
| 8 | *ePP·Z* | 23 06.8 | |
| | *eSS·NE* | 21.3 | |
| | *L·NE* | 23.7 | |
| | $\Delta = 102°$. Indian Ocean. | | |
| 10 | *iP·Z* | 6 26 30 | + |
| | *i·Z* | 26 33 | $5^s$, $-25\ \mu$. |
| | *iS·NE* | 35 08 | $14^s$. $N$: 45 $\mu$, $E$: 50 $\mu$. |
| | *L·NE* | 45.7 | $22^s$. $N$: 450 $\mu$, $E$: 400 $\mu$. |
| | $\Delta = 65°$. Alaska. | | |
| 10 | *iSg·Z'* | 15 25 03 | |
| | $\Delta = 3^1/_2°$. Southern Norway. | | |
| 10 | *L·NE* | 15 30 | |
| 11 | *ePP·Z* | 19 28 28 | |
| | *e(SKKS)·E* | 35 31 | |
| | *e(PS)·E* | 37.8 | |
| | *eSS·NE* | 43.4 | |
| | *L·NE* | 19.9 | |
| | $\Delta = 103°$. Northern Chile. | | |
| 12 | *ePS·ZE* | 1 17 08 | |
| | *eSS·N* | 23 08 | |
| | *L·E* | 42 | |
| | $\Delta = 110°$. Pacific Ocean. | | |
| 13 | *L·N* | 20 58.7 | |
| | *M·N* | 59.2 | $14^s$, 3 $\mu$. |
| | *F* | 21 01.5 | |
| 13 | *L·NE* | 23 42 | |
| 15 | *eP·Z'* | 8 04 08 | |
| | *eS·NE* | 08 06 | |
| | *L·NE* | 11 | |
| | $\Delta = 22°$. Crete. | | |
| 16 | *L·NE* | 13 59 | |
| 16 | *L·NE* | 18 06 | |
| 16 | *L·NE* | 19 55 | |
| 17 | *iP·Z* | 5 41 06 | − |
| | *eS·E* | 44 06 | |
| | *e·N* | 44 10 | |
| | *e·ZN* | 44 22 | |
| | *L·NE* | 45.5 | |
| | *M·NE* | 48 | $10^s$. $N$: 15 $\mu$, $E$: 10 $\mu$. |
| | $\Delta = 17°$. Greece. | | |

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July

| | | | |
|---|---|---|---|
| 17 | $12^h$–$24^h$ disturbances of very long period. | | |
| 18 | *L·NE* | $1^h15^m$ | |
| 18 | *eS·NE* | 22 00 15 | |
| | *L·NE* | 22.3 | |
| | $\Delta = 80°$. Ryukyu Islands. | | |
| 19 | *ePP·Z* | 6 49 37 | |
| | *L·E* | 7 25 | |
| | $\Delta = 113°$. $h = 150$ km. New Guinea. | | |
| 19 | *L·NE* | 15 36 | |
| 19 | *ePP·Z* | 18 35 32 | |
| | *eSKS·E* | 41 54 | |
| | *ePS·E* | 44 32 | |
| | *e·E* | 45.2 | |
| | *L·E* | 19 09 | |
| | *M·E* | 19 | $20^s$, $30\mu$. |
| | $\Delta = 105°$. Moluccas. | | |
| 20 | *eS·Z'* | 19 32 47 | dubious. |
| | *L·NE* | 34.4 | |
| | *M·NE* | 35 | $16^s$. $N$: $2\mu$, $E$: $2\mu$. |
| | $\Delta = 13°$. Western France. | | |
| 21 | *iP·Z'Z* | 7 36 34 | $Z$: $3^s$, $+3\mu$. |
| | *eS·NE* | 46 03 | |
| | *e·NE* | 46 59 | |
| | *L·NE* | 8 00 | |
| | $\Delta = 73°$. Kurile Islands. | | |
| 21 | *iP·Z'Z* | 14 48 49 | $Z$: $4^s$, $+2\mu$. |
| | *eS·NE* | 58 13 | |
| | *L·NE* | 15 13 | |
| | $\Delta = 73°$. Aleutian Islands. | | |
| 23 | *iP·Z* | 10 39 52 | $4^s$, $-2\mu$. |
| | *iS·N* | 50 09 | $11^s$, $-5\mu$. |
| | *i·E* | 50 13 | $10^s$, $-6\mu$. |
| | *L·NE* | 11 10 | |
| | *M·NE* | 15 | $15^s$. $N$: $18\mu$, $E$: $15\mu$. |
| | $\Delta = 82°$. Japan. | | |
| 24 | *(i)P·Z'* | 13 19 34 | in the time break. |
| | *L·NE* | 51 | |
| | $\Delta = 72°$. Aleutian Islands. | | |
| 26 | *eSKS·N* | 6 38 27 | |
| | *ePS·N* | 40 45 | |
| | *eSS·NE* | 46 13 | |
| | *L·NE* | 59 | |
| | $\Delta = 100°$. South Indian Ocean. | | |

July

| | | | |
|---|---|---|---|
| 26 | *iP·Z'Z* | $17^h49^m39^s$ | − |
| | *i·Z* | 49 48 | $5^s$, $-20\mu$. |
| | *i·Z* | 50 12 | + |
| | *ipP·Z* | 51 55 | |
| | *esP·Z* | 53 02 | |
| | *iPP·Z* | 53 50 | $5^s$, $-20\mu$. |
| | *i·Z* | 54 10 | $5^s$, $-20\mu$. |
| | *iSKS·NE* | 59 15 | |
| | *iSKKS·NE* | 59 32 | $6^s$. $N$: $10\mu$, $E$: $30\mu$. |
| | *iS·NE* | 18 00 11 | $10^s$. $N$: $25\mu$, $E$: $15\mu$. |
| | *iPS·E* | 03 00 | $6^s$, $35\mu$. |
| | *isS·N* | 04 10 | $10^s$, $15\mu$. |
| | *ePKPPKP·Z'* | 14 42 | |
| | *i·Z'* | 15 04 | |
| | $\Delta = 96°$. $h = 650$ km. Peru-Bolivia border. | | |
| 27 | *L·NE* | 4 03 | |
| 27 | *L·NE* | 15 05 | |
| 27 | *L·NE* | 18 44 | |
| 28 | *L·NE* | 16 08 | |
| 28 | *iPKP·Z'* | 17 43 20 | |
| | $\Delta = 143°$. $h = 500$ km. Fiji Islands. | | |
| 29 | *iP·Z'Z* | 21 47 38 | $Z$: − |
| | *eS·NE* | 55 54 | |
| | *L·NE* | 22 06 | |
| | $\Delta = 61°$. Atlantic Ocean. | | |
| 30 | *iP·Z'* | 2 58 52 | + |
| | *eS·E* | 3 08 22 | |
| | *e·E* | 09 06 | |
| | *e·N* | 09 20 | |
| | *L·NE* | 25 | |
| | $\Delta = 73°$. Kurile Islands. | | |
| 30 | *L·NE* | 5 42 | |
| 31 | *iP·Z'* | 2 15 18 | |
| | $\Delta = 73°$. Aleutian Islands. | | |

August

| | | | |
|---|---|---|---|
| 1 | *ePKP·Z* | 5 56 31 | |
| | *i·Z* | 56 36 | − |
| | *eSKP·Z* | 59 37 | |
| | *ePKS·N* | 6 00 15 | |
| | *epPKS·ZN* | 01 39 | |
| | $\Delta = 140°$. $h = 450$ km. Fiji Islands. | | |

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# København 1958

August

| | | | |
|---|---|---|---|
| 3 | *ePKP·Z'Z* | $1^h25^m02^s$ | – |
| | *epPKP·Z'Z* | 27 13 | |
| | *e·N* | 38 25 | |
| | *e·E* | 46.7 | |
| | $\Delta$ = 145°. *h* = 550 km. Fiji Islands. | | |
| 4 | *ePP·ZE* | 4 32 15 | |
| | *esPP·ZN* | 33 14 | |
| | *eSKS·E* | 38 04 | |
| | *esSKS·NE* | 39 16 | |
| | *i·E* | 42 26 | |
| | $\Delta$ = 110°. *h* = 150 km. Banda Sea. | | |
| 4 | *L·E* | 6 40.5 | |
| | *L·ZN* | 40.8 | |
| | *M·ZN* | 41.3 | |
| | *F·ZNE* | 42 | |
| 6 | *iPn·Z'* | 17 17 27 | |
| | *e·Z'* | 17 32 | |
| | *ePg·Z'* | 17 47 | |
| | *eSn·NE* | 18 28 | |
| | *iSg·NE* | 18 51 | |
| | *iRg·NE* | 19 10 | |
| | $\Delta$ = 5°. Southwestern Norway. | | |
| 6 | *ePKP·Z'* | 21 28.6 | |
| | *ePP·Z* | 31 38 | |
| | *iPKS·N* | 32 23 | |
| | *L·NE* | 22 16 | |
| | $\Delta$ = 142°. Tonga Islands. | | |
| 8 | *L·NE* | 5 39.0 | |
| 8 | *e·Z* | 13 01 00 | |
| | *e·ZE* | 02 42 | |
| | *e·NE* | 06 10 | |
| | *e·NE* | 09.3 | |
| 8 | *L·NE* | 17 26 | |
| 8 | *L·NE* | 20 46 | |
| 9 | *L·NE* | 9 40 | |
| 9 | *L·NE* | 13 41 | |
| 10 | *L·NE* | 19 09 | |
| 11 | *eSg·Z'* | 16 09 42 | |
| | $\Delta$ = 5°. Poland. | | |
| 11 | *i·Z'* | 16 23 17 | |

August

| | | | |
|---|---|---|---|
| 11 | *L·ZE* | $19^h36^m$ | |
| 11 | *e·NE* | 20 50.5 | |
| | *L·NE* | 21.3 | |
| | $\Delta$ = 92°. Sumatra. | | |
| 12 | *L·NE* | 17 06 | |
| 12 | *eP·Z* | 19 39 07 | |
| | *ePP·Z* | 43 24 | |
| | *eSKS·E* | 49 49 | |
| | *eSKKS·NE* | 50 07 | |
| | *eSS·E* | 58 17 | |
| | *L·E* | 20 15 | |
| | *M·ZNE* | 31 | $20^s$. *Z*: 20 $\mu$, *N*: 15 $\mu$, *E*: 25 $\mu$. |
| | $\Delta$ = 103°. Molucca Passage. | | |
| 13 | *L·NE* | 4 43 | |
| 13 | *iP·Z'* | 7 41 18 | |
| | *e·Z'* | 41 25 | |
| | *ePP·NE* | 43 01 | |
| | *eS·NE* | 47 32 | |
| | *L·N* | 53 | |
| | $\Delta$ = 42°. Afghanistan. | | |
| 13 | *iPKP·Z'* | 17 10 39 | |
| | *i·Z'* | 10 42 | |
| | *e·E* | 48.2 | |
| | *L·NE* | 18 00 | |
| | $\Delta$ = 147°. *h* = 550 km. Fiji Islands. | | |
| 13 | *eP·Z'Z* | 20 24 36 | *Z*: –. |
| | *e·Z* | 25 15 | |
| | *iS·NE* | 34 08 | *N*: +, *E*: + |
| | *eScS·N* | 34 52 | |
| | *L·NE* | 48 | |
| | $\Delta$ = 74°. Aleutian Islands. | | |
| 14 | *eP·Z'* | 11 33 28 | |
| | *iS·E* | 38 49 | |
| | *eSS·N* | 40 45 | |
| | *L·N* | 43.3 | |
| | $\Delta$ = 33°. Iran. | | |
| 14 | *iP·Z'Z* | 15 06 42 | *Z*: + |
| | *e·N* | 12 32 | |
| | *eS·NE* | 16 08 | |
| | *i·NE* | 17 05 | |
| | *e·N* | 21 15 | |
| | *L·NE* | 31 | |
| | *M·NE* | 41 | $20^s$. *N*: 15 $\mu$, *E*: 10 $\mu$. |
| | $\Delta$ = 73°. Aleutian Islands. | | |
| 14 | *iP·Z'Z* | 15 32 54 | |
| | $\Delta$ = 33°. Iran. | | |

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| | | | |
|---|---|---|---|
| August | | | |
| 14 | *e(S)·NE* | $23^h41^m35^s$ | |
| | *e·NE* | 42 11 | |
| | *(L)·N* | 58 | |
| 15 | *L·NE* | 3 29 | |
| 15 | *iP·Z'Z* | 20 06 39 | ÷ |
| | *ePP·NE* | 09 09 | |
| | *iS·NE* | 15 37 | *N*: –, *E*: – |
| | *iPS·N* | 15 46 | |
| | *iScS·NE* | 16 34 | |
| | *L·NE* | 28 | |
| | *M·E* | 32 | $30^s$, 65 μ. |
| | *M·ZN* | 38 | $25^s$. *Z*: 35 μ, *N*: 55 μ. |
| | Δ = 68°. Kamchatka. | | |
| 15 | *iP·Z'Z* | 22 42 51 | *Z'*: –, *Z*: + |
| | *i·Z'Z* | 43 04 | |
| | *i·Z* | 43 35 | |
| | *i·Z* | 46 12 | + |
| | *iSKS·NE* | 53 14 | *N*: $7^s$, – 8 μ. *E*: $8^s$, – 15 μ. |
| | *e(S)·E* | 54 17 | |
| | *i·E* | 54 33 | $8^s$, + 10 μ. |
| | *i·N* | 54 39 | $7^s$, – 7 μ. |
| | *i(sS)·N* | 55 38 | $15^s$, – 20 μ. |
| | *e·E* | 58 05 | |
| | *L·NE* | 23 09 | |
| | *M·NE* | 22 | $25^s$. *N*: 160 μ, *E*: 55 μ. |
| | Δ = 102°. *h* = 200 km. Celebes. | | |
| 16 | *ePKP·Z* | 11 33 34 | |
| | *e·N* | 34 16 | |
| | *e(PP)·N* | 37 25 | |
| | Δ = 148°. Tonga Islands. | | |
| 16 | *eP·Z'Z* | 13 29 27 | |
| | *eS·NE* | 38 56 | |
| | *ePS·N* | 39 10 | |
| | *e·E* | 40 04 | |
| | *eSS·N* | 43.8 | |
| | *L·NE* | 54 | |
| | Δ = 73°. Aleutian Islands. | | |
| 16 | *e(S)·E* | 17 21 22 | |
| | *L·NE* | 28 | |
| 16 | *iP·Z'Z* | 19 20 17 | *Z*: $6^s$, + 10 μ. |
| | *e(S)·E* | 25 29 | $10^s$, 7 μ. |
| | *iS·N* | 25 33 | $8^s$, – 10 μ. |
| | *i·E* | 25 46 | $7^s$ 40 μ. |
| | *iSS·N* | 27 28 | |
| | *L·NE* | 31 | |
| | *M·ZNE* | 35 | $20^s$. *Z*: 45 μ, *N*: 65 μ, *E*: 80 μ. |
| | Δ = 33°. Iran. | | |

| | | | |
|---|---|---|---|
| August | | | |
| 17 | *L·NE* | $3^h59^m$ | |
| 17 | *L·NE* | 5 01 | |
| 17 | *e·N* | 9 30 20 | |
| | *L·NE* | 45 | |
| | Δ = 74°. Aleutian Islands. | | |
| 17 | *ePP·Z* | 18 20 36 | |
| | *e·ZNE* | 21.1 | |
| | *ePS·Z* | 30.7 | |
| | *e·E* | 30 44 | |
| | *e·N* | 30 50 | |
| | *e·N* | 31 39 | |
| | *eSS·NE* | 37.2 | |
| | *eSSS·NE* | 41.3 | |
| | *L·NE* | 57 | |
| | *M·ZNE* | 19 11 | $20^s$. *Z*: 10 μ, *N*: 15 μ, *E*: 10 μ. |
| | Δ = 116°. Bismarck Sea. | | |
| 17 | *ePKP·Z* | 21 31 08 | |
| | *ePP·Z* | 35 23 | |
| | Δ = 158°. Kermadec Islands. | | |
| 18 | *L·NE* | 16 02 | |
| 18 | *L·NE* | 22 08 | |
| 18 | *iP·Z'* | 23 | no minute marks |
| | *eP·ZN* | 59 08 | |
| | *eS·N* | 24 03 16 | |
| | Δ = 23°. Crete. | | |
| 19 | *e(L)·ZNE* | 16.3 | |
| 19 | *eP·Z* | 16 40 38 | |
| | *eS·N* | 49 37 | |
| | *L·NE* | 17.1 | |
| | Δ = 68°. Kamchatka. | | |
| 19 | *iPP·Z* | 22 08 04 | |
| | *eSKS·N* | 13 43 | |
| | *(e)SKKS·NE* | 14 58 | in the time break. |
| | *ePS·ZNE* | 17 38 | |
| | Δ = 115°. New Ireland. | | |
| 20 | *ePKP·Z* | 3 59 28 | |
| | *iPP·Z* | 4 02 05 | – |
| | *iPKS·NE* | 03 03 | |
| | *L·NE* | 4.8 | |
| | Δ = 134°. New Hebrides. | | |
| 21 | *ePKP·Z'Z* | 21 18 12 | |
| | *epPKP·Z* | 19 12 | |
| | *ePKS·N* | 21 57 | |
| | *i·N* | 24 32 | |
| | Δ = 142°. *h* = 250 km. Fiji Islands. | | |

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August

22 *iP·Z'Z* 12$^h$51$^m$08$^s$ Wiechert *Z*.
*e·N* 51 17 Wiechert.
*(i)·Z'* 51 24 in the time break.
*e·Z* 51 32 Wiechert.
*Δ* = 1°. Southern Baltic?

26 *L·NE* 5 45

26 *e·Z'* 10 01 26
*i·Z'ZNE* 01 34
Near shock.

26 *i·Z'* 13 01 36 Seismic?

27 *iP·Z'ZNE* 15 20 58 *Z*: 6$^s$, −25 *μ*. *Z'*: $^1/_2$$^s$.
*e·Z'* 21 08 2$^s$.
*i·Z* 21 12
*iS·NE* 24 33 9$^s$. *N*: +20 *μ*, *E*: −40 *μ*.
*iSS·NE* 24 50
*L·NE* 28.0
*M·NE* 30 *N*: 14$^s$, 70 *μ*. *E*: 12$^s$, 50 *μ*.
*Δ* = 20°. Ionian Sea.

29 *L·NE* 13.6

30 *eP·Z* 7 40 10 No Benioff record.
*eS·NE* 43 42
*L·NE* 47
*Δ* = 20°. Ionian Sea.

30 *eSKS·N* 19 01 13
*ePS·NE* 02 18
*L·NE* 24
*Δ* = 85°. Gulf of California.

31 *iP·Z* 23 10 25 +
*e(PcP)·N* 11 13
*ePP·N* 12 40
*ePPP·Z* 14.1
*eS·N* 18 41
*eSS·N* 22 42
*L·N* 30
*Z'* and *E* out of order.
*Δ* = 61°. Alaska.

31 *ePKP·Z* 23 47 09
*Δ* = 150°. Kermadec Islands.

September.

1 *e·Z* 1 17.0

2 *iP·ZN* 1 17 48 *Z*: −
*e·Z* 18 17
*eS·N* 21 22
*i·N* 21 56
*M·ZN* 26 10$^s$, 5 *μ*.
*Δ* = 19°. Ionian Sea.

September

2 *eP·Z* 20$^h$19$^m$48$^s$
*L·Z* 52
No *H*-records. *Δ* = 86°. Mexico.

3 *L·Z* 1 54
No *H*-records.

3 *L·Z* 3 12
No *H*-records.

3 *iP·Z'Z* 3 54 40 +
No *H*-records. *Δ* = 61°. Atlantic Ocean.

3 *eP·Z'* 8 21 59 *Z* in the paper shift.
*e·Z'* 22 06
*ePP·Z'* 24 47
*L·N* 48
*Δ* = 75°. Japan.

4 *iP·Z'Z* 0 07 46 +
*eS·N* 11 44
*L·N* 15.6
*Δ* = 22°. Dodecanese Islands.

4 *e·Z'* 13 01 45 per. abt. 0.4 sec.
*i·Z'* 02 50 per. abt. 1.0 sec.
*e·Z'* 03 44 per. abt. 1.5 sec.
*e·Z'* 04 00 per. abt. 0.3 sec.
Near shock.

4 *i·Z'* 16 33 09

4 *ePP·Z'ZE* 22 10 41 *Z*: +
*e·Z* 14 43
*e·N* 18 36
*e·ZNE* 21.7
*eSSS·NE* 30.6
*L·NE* 45
*M·ZNE* 56 20$^s$. *Z*: 25 *μ*, *N*: 20 *μ*, *E*: 20 *μ*.
*Δ* = 113°. Chile-Argentina border.

6 *i·Z'* 17 32 13 per. abt. 0.4 sec.
*e·Z'* 34 13 per. abt. 1.5 sec.
Conf. the quake Sept 4, 13$^h$. Near shock.

8 *iP·Z'Z* 5 36 39 +
*i·Z* 36 42 −
*i(pP)·Z* 36 55 −
*eS·NE* 45 38
*ePS·ZNE* 46 04
*eSKS·E* 46 33
*L·NE* 6 00
*Δ* = 68°. Deeper than normal. Kamchatka.

9 *iP·Z'* 11 43 36 +
*L·NE* 12 09
*Δ* = 73°. Kurile Islands.

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# København 1958

September

| | | | |
|---|---|---|---|
| 9 | *L·NE* | $22^h59^m$ | |
| 10 | *L·NE* | 4 07 | |
| 11 | *L·NE* | 7 31 | |
| 11 | *L·NE* | 18 49 | |
| 12 | *L·NE* | 6 42 | |
| 14 | *iP·Z'* | 14 31 06 | + |
| | *e·Z'* | 31 12 | |
| | *iS·NE* | 38 43 | |
| | *eScS·E* | 40 55 | |
| | *eSS·NE* | 42 35 | |
| | *L·NE* | 50 | |
| | *iLg·NE* | 51 08 | $6^s$. *N*: 15 $\mu$, *E*: 20 $\mu$. |
| | *M·NE* | 52 | $10^s$. *N*: 25 $\mu$, *E*: 20 $\mu$. |
| | $\Delta$ = 54°. Siberia. | | |
| 15 | *eP·Z'* | 19 58 16 | |
| | *i·Z'* | 58 18 | – |
| | *epP·Z* | 20 00 40 | |
| | *iPP·Z* | 02 32 | |
| | *ipPP·Z* | 04 39 | |
| | *iSKS·NE* | 07 54 | *N*: +, *E*: + |
| | *iS·NE* | 08 46 | |
| | *iSP·E* | 10 16 | |
| | *iSS·N* | 15 52 | |
| | *iSSS·N* | 20 19 | |
| | $\Delta$ = 98°. *h* = 600 km. Celebes Sea. | | |
| 16 | *i·Z'* | 12 58 53 | |
| | *i·Z'* | 58 57 | |
| 16 | *L·NE* | 16 44 | |
| 17 | *L·NE* | 13 06 | |
| 18 | *eP·Z* | 14 52 23 | doubtful. |
| | *eS·N* | 15 01 11 | |
| | *L·NE* | 11 | |
| | $\Delta$ = 65°. Mid-Atlantic Ocean. | | |
| 18 | *eS·E* | 21 07 13 | |
| | *eScS·N* | 10 32 | |
| | *i·E* | 10 43 | |
| | $\Delta$ = 43°. *h* = 150 km. Hindu Kush. | | |
| 20 | *L·ZE* | 11 04 | |
| 20 | *L·NE* | 18 08 | |

September

| | | | |
|---|---|---|---|
| 22 | *iPKP1·Z'Z* | $19^h25^m39^s$ | *Z*: + |
| | *i·Z'Z* | 25 52 | – |
| | *ePKP2·Z'* | 26 10 | |
| | *ePP·E* | 30 08 | |
| | *eSKKS·NE* | 36 35 | |
| | *ePPP2·N* | 38 40 | |
| | *ePPS·NE* | 43.1 | |
| | *eSS·NE* | 49 42 | |
| | *L·NE* | 20 16 | |
| | $\Delta$ = 157°. Kermadec Islands. | | |
| 24 | *eP·Z'* | 3 54 54 | |
| | *e·Z'Z* | 55 18 | |
| | *e·N* | 59 39 | |
| | *eS·NE* | 4 03 40 | |
| | *e·N* | 04 24 | |
| | *L·NE* | 15 | |
| | $\Delta$ = 66°. Gulf of Alaska. | | |
| 25 | *eP·Z'Z* | 7 30 28 | |
| | *iZ* | 30 33 | |
| | *eS·NE* | 38 56 | |
| | *iPS·NE* | 39 05 | |
| | *i·E* | 39 18 | |
| | *i·N* | 39 21 | |
| | *L·NE* | 48 | |
| | *M·NE* | 51 | $25^s$. *N*: 35 $\mu$, *E*: 50 $\mu$. |
| | $\Delta$ = 63°. Atlantic Ocean. | | |
| 27 | *L·NE* | 13 18 | |
| 29 | *L·NE* | 14 57 | |
| 30 | *L·NE* | 8 05.0 | |
| | *M·NE* | 07.1 | $10^s$. *N*: 4 $\mu$, *E*: 3 $\mu$. |
| | *F* | 07.8 | |
| | No *Z*-record. | | |
| 30 | *e·Z'* | 8 49 18 | Strong microseisms. |
| | *e(S*)·E* | 49 41 | |
| | *e(Sg)·N* | 50 09 | |
| | *i·E* | 50 16 | |
| | *e(Rg)·NE* | 50.4 | |
| | $\Delta$ = 8°. Upper Inn Valley. | | |
| 30 | *L·ZNE* | 10 10.0 | |
| | *M·ZNE* | 12.8 | $10^s$. *Z*: 2 $\mu$, *N*: 3 $\mu$, *E*: 3 $\mu$. |
| | *F* | 14.8 | |

*November 1958.* HENRY JENSEN

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## Microseisms.-København

| | 1958 | Z | | | | N | | | | E | | | | 1958 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | July | 0h | 6h | 12h | 18h | 0h | 6h | 12h | 18h | 0h | 6h | 12h | 18h | July | |
| 267 | 1 | 2 0.3 4.0 | 2 0.2 3.5 | 3 0.4 4.0 | 3 0.3 4.0 | 2 0.2 4.0 | 2 0.2 4.0 | 3 0.2 4.0 | 3 0.3 2.7 | 2 0.3 3.5 | 2 0.3 4.0 | .. .. | .. .. | 1 | 115 |
| 241 | 2 | 3 0.3 3.– | 3 0.3 3.– | 3 0.2 3.– | 3 0.2 2.1 | 3 0.4 2.9 | 3 0.4 2.9 | 3 0.5 2.2 | 3 0.4 2.5 | .. .. | .. .. | 3 0.2 2.5 | 3 0.3 2.3 | 2 | 107 |
| 174 | 3 | 3 0.3 2.2 | .. .. | 3 0.2 2.5 | 3 0.2 3.3 | 3 0.4 2.0 | .. .. | 3 0.2 4.5 | 3 0.2 4.7 | 3 0.3 2.0 | .. .. | 3 0.2 3.4 | 3 0.2 4.6 | 3 | 194 |
| 258 | 4 | 3 0.3 3.3 | 2 0.2 3.6 | 2 0.2 4.4 | 2 0.2 4.6 | 2 0.2 3.5 | 2 0.2 4.0 | 2 0.2 3.7 | 2 0.2 4.0 | 2 0.2 4.5 | 2 0.2 4.6 | 2 0.2 4.0 | 2 0.2 4.0 | 4 | 259 |
| 247 | 5 | 2 0.2 4.2 | 2 0.2 4.0 | 2 0.3 3.6 | 2 0.2 4.– | 2 0.2 4.3 | 2 0.2 4.5 | 2 0.2 3.5 | 2 0.2 3.2 | 2 0.1 3.8 | 2 0.1 4.0 | 2 0.1 3.5 | 2 0.1 3.5 | 5 | 232 |
| 241 | 6 | 3 0.2 3.6 | 3 0.3 2.0 | 3 0.3 2.7 | 3 0.2 2.8 | 3 0.2 3.5 | 3 0.3 2.1 | 3 0.5 2.1 | 3 0.5 2.5 | 3 0.2 4.5 | 3 0.2 2.2 | 3 0.2 2.5 | 3 0.3 2.4 | 6 | 245 |
| 231 | 7 | 3 0.3 2.4 | 3 0.5 2.2 | 3 0.4 2.6 | 3 0.4 2.3 | 3 0.4 2.6 | 3 0.5 2.3 | 3 0.5 2.5 | 3 0.4 2.6 | 3 0.2 2.6 | 3 0.4 2.4 | 3 0.2 2.5 | 3 0.3 2.2 | 7 | 228 |
| 256 | 8 | 3 0.4 2.3 | 3 0.4 2.8 | 3 0.4 3.4 | 3 0.3 3.6 | 3 0.4 2.2 | 3 0.4 2.8 | 3 0.4 4.0 | 3 0.4 3.4 | 3 0.3 2.2 | 3 0.3 2.4 | 3 0.4 3.8 | 3 0.4 3.7 | 8 | 255 |
| 133 | 9 | .. .. | 3 0.4 3.4 | .. .. | 3 0.4 3.7 | .. .. | 3 0.4 3.5 | .. .. | 3 0.4 3.3 | .. .. | 3 0.6 3.0 | .. .. | 3 0.6 3.5 | 9 | 131 |
| 308 | 10 | 3 0.6 3.5 | 3 0.8 4.2 | 3 1.0 4.0 | 3 0.9 3.8 | 3 0.4 4.0 | 3 0.6 4.5 | 3 0.8 4.2 | 3 0.7 3.8 | 3 0.5 3.8 | 3 0.6 4.5 | 3 0.7 4.3 | 3 0.8 4.2 | 10 | 314 |
| 307 | 11 | 3 0.8 4.0 | 3 0.6 4.0 | 3 0.6 4.– | 3 0.5 4.2 | 3 0.7 4.2 | 3 0.4 3.7 | 2 0.7 3.7 | 2 0.5 4.0 | 3 0.6 4.3 | 3 0.6 4.5 | 2 0.5 4.0 | 2 0.6 3.8 | 11 | 289 |
| 292 | 12 | 3 0.4 3.8 | 3 0.4 3.8 | 3 0.4 3.6 | 3 0.3 4.5 | 2 0.5 4.0 | 2 0.4 3.7 | 2 0.3 3.3 | 2 0.3 3.3 | 2 0.5 4.0 | 2 0.4 4.– | 2 0.4 3.7 | 2 0.4 3.7 | 12 | 251 |
| 234 | 13 | 2 0.4 3.7 | 2 0.4 3.1 | 2 0.4 3.5 | 2 0.4 3.5 | 2 0.3 3.8 | 2 0.3 3.3 | 2 0.3 3.2 | 2 0.2 3.4 | 2 0.3 3.5 | 2 0.3 3.5 | 2 0.2 3.6 | 2 0.4 3.6 | 13 | 234 |
| 273 | 14 | 2 0.6 3.4 | 3 0.7 3.6 | 3 1.4 3.1 | 1 1.7 3.8 | 3 0.4 4.0 | 3 0.6 3.5 | 3 0.8 2.7 | 1 1.0 3.6 | 3 0.5 4.0 | 3 0.6 3.9 | 3 0.8 3.6 | 1 1.0 3.7 | 14 | 281 |
| 237 | 15 | 1 1.4 3.5 | 2 1.0 3.3 | 2 0.7 2.8 | 2 0.6 3.4 | 1 0.8 3.6 | 2 0.7 3.2 | 3 0.5 2.8 | 2 0.4 3.2 | 1 1.1 4.1 | 2 0.7 3.5 | 3 0.3 2.8 | 2 0.4 3.2 | 15 | 241 |
| 241 | 16 | 2 0.5 3.3 | 2 0.4 3.8 | 2 0.4 3.4 | 3 0.5 2.8 | 2 0.3 3.4 | 2 0.2 3.4 | 3 0.4 2.8 | 3 0.4 2.4 | 2 0.4 3.1 | 2 0.2 3.4 | 3 0.3 2.6 | 3 0.2 2.9 | 16 | 231 |
| 251 | 17 | 3 0.4 2.8 | 3 0.4 3.1 | 3 1.0 2.8 | 1 1.6 3.0 | 3 0.3 3.0 | .. .. | 3 0.8 2.7 | 3 0.8 2.5 | 3 0.3 2.4 | .. .. | 3 0.6 2.5 | 3 0.8 2.8 | 17 | 181 |
| 265 | 18 | 1 1.6 3.1 | 3 1.3 3.0 | 3 1.1 2.4 | 3 1.0 3.0 | 3 0.9 2.7 | 3 0.8 2.6 | 3 0.4 2.5 | 3 0.4 2.7 | 3 0.8 2.8 | 3 0.8 2.6 | 3 0.6 2.6 | 3 0.8 2.5 | 18 | 255 |
| 221 | 19 | 3 0.7 3.1 | 2 0.4 2.8 | 2 0.6 2.3 | 2 0.4 2.8 | 2 0.4 2.6 | 2 0.3 2.2 | 2 0.3 2.5 | 3 0.2 3.0 | 2 0.6 2.7 | 2 0.4 2.5 | 3 0.4 2.4 | 3 0.2 2.5 | 19 | 217 |
| 218 | 20 | 2 0.4 2.6 | 2 0.4 3.0 | 2 0.2 3.5 | 2 0.2 3.5 | 2 0.2 3.5 | 2 0.2 3.5 | 2 0.2 3.0 | 2 0.1 3.5 | 2 0.2 3.5 | 2 0.2 3.5 | 2 0.1 3.5 | 2 0.1 3.5 | 20 | 226 |
| 237 | 21 | 2 0.2 3.5 | 3 0.3 3.3 | 2 0.3 3.3 | 2 0.4 3.4 | 2 0.1 3.4 | 2 0.1 2.9 | 3 0.3 2.3 | 3 0.2 2.5 | 2 0.2 3.3 | 2 0.3 2.7 | 3 0.2 2.7 | 3 0.2 2.8 | 21 | 224 |
| 330 | 22 | 3 0.4 2.3 | 3 0.4 2.5 | 2 0.4 3.2 | 2 0.3 3.5 | 3 0.3 2.2 | 3 0.3 2.3 | 3 0.2 3.– | 3 0.2 3.2 | 3 0.3 2.3 | 3 0.3 2.2 | 3 0.2 4.0 | 3 0.2 4.3 | 22 | 258 |
| 245 | 23 | 2 0.3 3.5 | 2 0.4 3.8 | 3 0.4 3.5 | 2 0.3 3.3 | 3 0.2 3.7 | 3 0.2 3.7 | .. .. | 3 0.2 4.0 | 3 0.2 3.6 | 3 0.2 3.7 | .. .. | 3 0.2 4.0 | 23 | 206 |
| 231 | 24 | 2 0.4 3.4 | 2 0.4 3.7 | 2 0.4 3.0 | 2 0.4 3.4 | 3 0.2 3.5 | 3 0.3 3.3 | 3 0.4 3.3 | 3 0.4 3.5 | 3 0.4 3.7 | 3 0.4 3.6 | 3 0.3 3.7 | 3 0.4 3.6 | 24 | 281 |
| 259 | 25 | 3 0.6 3.0 | 3 0.7 3.0 | 3 0.6 2.7 | 3 0.8 2.5 | 3 0.4 2.9 | 3 0.5 2.5 | 3 0.4 2.6 | 3 0.5 2.5 | 3 0.4 2.7 | 3 0.5 2.3 | 3 0.5 2.4 | 3 0.6 2.1 | 25 | 235 |
| 201 | 26 | 3 0.7 2.8 | 3 0.7 3.1 | 3 0.7 3.4 | .. .. | 3 0.4 3.0 | 1 0.4 3.8 | 2 0.6 3.8 | .. .. | 3 0.4 2.8 | 3 0.4 3.5 | 2 0.5 3.2 | .. .. | 26 | 185 |
| 264 | 27 | 1 0.9 3.5 | 3 0.9 3.2 | 3 0.8 3.2 | 3 0.7 3.2 | 1 0.6 3.7 | 1 0.5 3.4 | 3 0.5 3.2 | 3 0.5 3.3 | 1 0.6 3.5 | 1 0.8 3.0 | 3 0.4 3.2 | 3 0.4 3.0 | 27 | 229 |
| 235 | 28 | 2 0.4 3.3 | 3 0.3 3.4 | 2 0.3 3.1 | 2 0.4 3.3 | 2 0.3 3.2 | 2 0.2 3.5 | 2 0.2 3.3 | 2 0.3 3.0 | 2 0.4 3.0 | 2 0.2 3.5 | 2 0.2 3.5 | 2 0.3 3.5 | 28 | 226 |
| 229 | 29 | 3 0.4 3.5 | 1 0.7 3.5 | 1 0.8 3.5 | 1 0.7 3.8 | 2 0.3 3.5 | 3 0.4 3.7 | 3 0.4 3.6 | 3 0.5 3.8 | 2 0.4 3.4 | 3 0.6 3.3 | 2 0.6 4.0 | 3 0.6 4.0 | 29 | 269 |
| 260 | 30 | 3 0.8 3.5 | 3 0.7 3.3 | 2 0.4 3.5 | 2 0.4 3.4 | 3 0.4 3.7 | 3 0.4 3.6 | 3 0.3 3.5 | 3 0.4 3.3 | 3 0.4 4.0 | 3 0.5 3.6 | 2 0.3 3.4 | 2 0.3 3.2 | 30 | 257 |
| 244 | 31 | 2 0.4 3.3 | 3 0.4 3.4 | 2 0.4 3.6 | 2 0.4 3.5 | 2 0.4 3.3 | 2 0.4 3.2 | 2 0.3 3.5 | 2 0.4 3.3 | 2 0.2 3.6 | 2 0.3 3.3 | 2 0.4 3.6 | 2 0.4 3.6 | 31 | 234 |

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## Microseisms. København

| | 1958 | Z | | | | N | | | | E | | | | 1958 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Aug. | 0h | 6h | 12h | 18h | 0h | 6h | 12h | 18h | 0h | 6h | 12h | 18h | Aug. | |
| 234 | 1 | 2 0.3 3.5 | 2 0.3 3.3 | 2 0.2 3.7 | 2 0.3 3.8 | 2 0.4 3.6 | 2 0.4 3.8 | 2 0.3 3.8 | 2 0.3 3.7 | 2 0.3 3.6 | 2 0.4 4.0 | 2 0.2 4.0 | 2 0.2 3.8 | 1 | 245 |
| 218 | 2 | 2 0.3 3.0 | 1 0.9 2.5 | 3 0.4 2.6 | 3 0.4 2.7 | 2 0.2 3.5 | 1 0.6 2.5 | 3 0.4 2.2 | 3 0.3 2.4 | 3 0.2 3.0 | 1 0.8 2.5 | 3 0.4 2.3 | 2 0.3 2.8 | 2 | 213 |
| 222 | 3 | 1 0.6 3.4 | 1 0.6 3.5 | 3 0.6 2.5 | 3 0.5 2.5 | 3 0.4 3.5 | 3 0.6 3.0 | 3 0.6 2.6 | 3 0.6 2.6 | 3 0.4 3.4 | 3 0.5 3.8 | 3 0.5 2.9 | 3 0.4 2.7 | 3 | 266 |
| 195 | 4 | 3 0.4 2.8 | .. .. | 3 0.5 3.4 | 3 0.4 3.3 | 3 0.4 3.0 | 3 0.4 3.0 | 3 0.4 3.8 | 3 0.4 3.8 | 3 0.4 2.8 | 3 0.4 3.2 | 3 0.4 3.7 | 3 0.4 3.8 | 4 | 271 |
| 281 | 5 | 3 0.4 3.3 | 3 0.5 3.7 | 3 0.7 3.3 | 3 0.7 3.5 | 3 0.5 3.5 | 3 0.6 3.4 | 3 0.8 3.7 | 3 0.8 4.0 | 3 0.5 3.7 | 3 0.5 3.8 | 3 0.8 4.0 | 3 0.7 3.7 | 5 | 297 |
| 250 | 6 | 3 1.0 3.3 | 1 1.0 3.5 | 1 1.0 4.2 | 1 0.8 4.2 | 3 0.9 4.0 | 1 1.0 4.2 | 1 0.8 4.4 | 1 0.8 4.2 | 1 1.0 4.0 | 1 1.1 4.5 | 1 0.9 4.4 | 1 0.7 4.2 | 6 | 248 |
| 249 | 7 | 2 0.5 3.9 | 2 0.4 3.8 | 2 0.4 3.8 | 2 0.4 3.7 | 2 0.5 4.0 | 2 0.5 3.7 | 2 0.4 3.8 | 2 0.4 3.8 | 2 0.5 4.5 | 2 0.5 3.8 | 2 0.4 3.8 | 2 0.4 3.9 | 7 | 258 |
| 230 | 8 | 2 0.3 3.3 | 2 0.3 3.5 | 2 0.2 3.5 | 2 0.2 3.7 | 2 0.3 3.5 | 2 0.3 3.6 | 2 0.2 3.7 | 2 0.2 3.8 | 2 0.4 4.0 | 2 0.3 3.8 | 2 0.2 3.8 | 2 0.2 3.7 | 8 | 244 |
| 258 | 9 | 2 0.2 4.0 | 3 0.2 4.1 | 3 0.2 2.9 | 3 0.2 3.0 | 2 0.2 4.0 | 3 0.2 3.8 | 3 0.2 3.2 | 3 0.2 3.2 | 2 0.2 4.0 | 3 0.2 3.7 | 3 0.2 3.3 | 3 0.2 3.3 | 9 | 261 |
| 269 | 10 | 3 0.2 3.5 | 3 0.2 3.3 | 3 0.2 3.5 | 3 0.2 3.8 | 3 0.2 3.5 | 3 0.2 3.5 | 3 0.2 3.7 | 3 0.2 3.3 | 3 0.2 3.5 | 3 0.2 3.8 | 3 0.2 3.6 | 3 0.2 3.6 | 10 | 273 |
| 232 | 11 | 2 0.2 3.8 | 2 0.2 3.5 | 2 0.3 3.5 | 2 0.2 3.5 | 2 0.2 3.7 | 2 0.2 3.6 | 2 0.3 3.7 | 2 0.2 3.6 | 2 0.2 3.6 | 2 0.2 4.0 | 2 0.2 4.0 | 2 0.2 3.6 | 11 | 246 |
| 245 | 12 | 3 0.3 3.3 | 3 0.3 3.0 | 3 0.5 2.3 | 3 0.5 2.3 | 3 0.3 2.5 | 3 0.2 2.7 | 3 0.5 2.2 | 3 0.4 2.3 | 3 0.2 3.5 | 3 0.2 2.5 | 3 0.3 2.0 | 3 0.3 2.2 | 12 | 232 |
| 232 | 13 | 3 0.4 2.9 | 2 0.3 3.3 | 2 0.3 3.4 | 2 0.3 3.3 | 3 0.4 2.8 | 2 0.4 3.0 | 2 0.2 3.1 | 2 0.2 3.0 | 3 0.3 3.0 | 3 0.2 3.7 | 2 0.2 4.0 | 2 0.2 3.6 | 13 | 252 |
| 187 | 14 | 2 0.2 4.0 | 2 0.2 4.0 | .. .. | 3 0.4 3.2 | 2 0.3 3.3 | 2 0.3 3.2 | .. .. | 3 0.4 3.0 | 2 0.2 3.5 | 2 0.2 3.6 | .. .. | 3 0.3 3.0 | 14 | 175 |
| 251 | 15 | 3 0.4 3.0 | 3 0.4 3.0 | 3 0.4 2.8 | 3 0.4 2.7 | 3 0.3 3.1 | 3 0.5 2.4 | 3 0.5 2.2 | 3 0.4 2.5 | 3 0.3 3.2 | 3 0.3 2.5 | 3 0.2 2.5 | 3 0.2 2.5 | 15 | 237 |
| 186 | 16 | .. .. | 3 0.2 3.5 | 3 0.4 2.7 | 3 0.3 2.8 | .. .. | 3 0.4 1.8 | .. .. | 3 0.3 2.2 | .. .. | 3 0.2 2.7 | .. .. | 3 0.2 2.6 | 16 | 111 |
| 257 | 17 | 3 0.3 2.7 | 3 0.3 3.0 | 3 0.3 2.9 | 3 0.3 3.2 | 3 0.2 2.6 | 3 0.2 2.7 | 3 0.4 2.9 | 3 0.4 3.0 | 3 0.2 2.8 | 3 0.2 2.7 | 3 0.2 3.0 | 3 0.2 2.8 | 17 | 241 |
| 242 | 18 | 3 0.3 3.2 | 2 0.2 3.8 | 2 0.2 3.9 | 2 0.2 3.4 | 3 0.2 3.5 | 2 0.3 3.3 | 2 0.2 3.8 | 2 0.2 3.5 | 3 0.2 3.2 | 3 0.2 3.2 | 2 0.2 3.9 | 2 0.2 3.9 | 18 | 250 |
| 232 | 19 | 2 0.2 4.0 | 2 0.2 3.6 | 2 0.3 3.0 | 3 0.4 2.5 | 3 0.2 3.5 | 3 0.2 2.8 | 3 0.3 3.1 | 3 0.3 2.3 | 3 0.2 4.0 | 3 0.2 3.7 | 3 0.2 3.4 | 3 0.3 2.7 | 19 | 267 |
| 112 | 20 | 3 0.5 2.3 | 3 0.5 2.5 | .. .. | .. .. | 3 0.4 2.3 | 3 0.4 2.7 | .. .. | .. .. | 3 0.3 2.8 | 3 0.3 2.5 | .. .. | .. .. | 20 | 113 |
| 104 | 21 | .. .. | .. .. | 2 0.3 3.2 | 2 0.3 3.2 | .. .. | .. .. | 2 0.2 3.5 | 2 0.2 3.5 | .. .. | .. .. | 2 0.3 3.2 | 3 0.4 3.0 | 21 | 113 |
| 223 | 22 | 2 0.4 3.0 | 1 0.4 2.9 | 3 0.5 2.8 | 3 0.4 2.9 | 3 0.4 3.0 | 1 0.4 3.0 | 3 0.5 2.9 | 3 0.4 2.7 | 3 0.3 3.2 | 3 0.4 3.0 | 3 0.4 3.0 | 3 0.4 2.8 | 22 | 255 |
| 250 | 23 | 3 0.4 3.2 | 3 0.4 3.3 | 3 0.6 2.7 | 2 0.6 2.8 | 3 0.3 2.7 | 3 0.4 2.8 | 3 0.6 2.2 | 2 0.5 2.6 | 3 0.4 2.5 | 2 0.4 3.0 | 3 0.4 2.4 | 3 0.5 2.7 | 23 | 233 |
| 219 | 24 | 2 0.4 3.0 | 2 0.5 3.0 | 2 0.5 3.0 | 2 0.5 3.0 | 2 0.5 2.7 | 2 0.5 2.5 | .. .. | .. .. | 2 0.5 2.7 | 2 0.4 3.0 | 3 0.5 2.5 | 3 0.4 2.6 | 24 | 226 |
| 217 | 25 | 2 0.4 2.8 | 2 0.4 3.2 | 2 0.3 3.1 | 2 0.3 3.2 | .. .. | .. .. | 3 0.4 2.7 | 3 0.3 3.0 | 2 0.4 2.5 | 2 0.4 2.5 | 2 0.2 2.9 | 2 0.2 3.5 | 25 | 206 |
| 229 | 26 | 2 0.4 3.3 | 2 0.3 3.3 | 2 0.4 3.3 | 2 0.3 3.6 | 3 0.3 3.0 | 3 0.2 3.4 | 3 0.4 3.5 | 3 0.6 2.7 | 2 0.2 3.1 | 2 0.2 3.3 | 3 0.2 3.7 | 2 0.2 3.2 | 26 | 231 |
| 260 | 27 | 3 0.4 2.8 | 3 0.4 3.0 | 3 0.4 3.8 | 2 0.4 3.8 | 3 0.6 2.5 | 2 0.6 3.1 | 2 0.4 3.6 | 2 0.4 4.0 | 3 0.3 3.2 | 3 0.3 3.5 | 2 0.4 4.0 | 2 0.4 4.2 | 27 | 263 |
| 237 | 28 | 2 0.4 4.0 | 2 0.4 4.0 | 1 0.4 4.0 | 1 0.5 4.0 | 2 0.4 4.0 | 2 0.5 3.8 | 2 0.6 4.0 | 2 0.6 4.0 | 2 0.4 4.0 | 2 0.4 4.0 | 2 0.4 4.0 | 2 0.4 3.7 | 28 | 253 |
| 259 | 29 | 3 0.4 3.4 | 3 0.4 3.3 | 3 0.5 2.8 | 3 0.5 2.6 | 3 0.7 3.2 | 3 0.6 3.0 | 3 0.7 2.8 | 3 0.6 2.7 | 3 0.4 3.5 | 3 0.4 3.4 | 3 0.4 3.0 | 3 0.4 2.6 | 29 | ~~291~~ 261 |
| 245 | 30 | 3 0.5 2.5 | 3 0.5 2.4 | 3 0.4 2.7 | 3 0.3 3.2 | 3 0.5 2.3 | 3 0.5 2.6 | 3 0.3 2.8 | 3 0.3 3.2 | 3 0.3 2.8 | 3 0.3 2.8 | .. .. | .. .. | 30 | 116 |
| 243 | 31 | 3 0.3 2.6 | 3 0.4 2.6 | 3 0.4 2.8 | 3 0.5 2.7 | 3 0.3 3.0 | 3 0.2 3.0 | 3 0.2 2.8 | 3 0.2 2.6 | .. .. | .. .. | .. .. | .. .. | 31 | 931 |

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# Microseisms. København

| | 1958 | *Z* | | | | *N* | | | | *E* | | | | 1958 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | 0ʰ | 6ʰ | 12ʰ | 18ʰ | 0ʰ | 6ʰ | 12ʰ | 18ʰ | 0ʰ | 6ʰ | 12ʰ | 18ʰ | Sept. | |
| 257 | 1 | 3 0.5 3.0 | 3 0.5 3.1 | 3 0.5 2.7 | 3 0.4 3.1 | .. .. | 3 0.2 3.1 | 3 0.3 3.4 | 3 0.3 3.5 | .. .. | .. .. | .. .. | .. .. | 1 | 901 — |
| 269 | 2 | 3 0.4 3.3 | 3 0.4 3.6 | 3 0.3 3.3 | 3 0.3 3.3 | 3 0.3 3.4 | 3 0.2 3.7 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | 2 | 902 — |
| 266 | 3 | 3 0.4 3.0 | 3 0.4 3.5 | 3 0.2 4.2 | 2 0.2 3.7 | .. .. | .. .. | 3 0.1 3.9 | 2 0.2 4.0 | .. .. | .. .. | .. .. | .. .. | 3 | 903 — |
| 278 | 4 | 2 0.2 4.0 | 2 0.2 4.3 | 2 0.2 3.7 | 2 0.2 4.0 | 2 0.2 4.1 | 2 0.1 4.3 | 2 0.1 3.9 | 2 0.1 3.8 | .. .. | .. .. | 2 0.1 4.0 | 2 0.1 4.0 | 4 | 116 |
| 179 | 5 | .. .. | 2 0.2 3.8 | 2 0.2 4.0 | 2 0.2 3.8 | .. .. | 2 0.1 4.0 | 2 0.2 4.0 | 2 0.2 3.7 | .. .. | 2 0.2 3.9 | 2 0.2 4.1 | 2 0.2 4.2 | 5 | 185 |
| 246 | 6 | 2 0.2 3.7 | 2 0.3 4.0 | 2 0.2 4.0 | 2 0.2 4.0 | 2 0.1 3.7 | 2 0.2 3.6 | 2 0.1 4.0 | 2 0.1 3.5 | 2 0.2 4.3 | 2 0.2 4.1 | 2 0.2 3.3 | 2 0.2 3.6 | 6 | 241 |
| 271 | 7 | 2 0.2 3.7 | 2 0.2 4.0 | 2 0.2 4.2 | 3 0.6 5.0 | 2 0.2 3.7 | 2 0.2 4.0 | 2 0.3 4.1 | 3 0.6 4.8 | 2 0.2 3.8 | 2 0.2 3.8 | 2 0.2 3.9 | 3 0.7 4.8 | 7 | 266 |
| 255 | 8 | 3 0.6 4.4 | .. .. | 3 0.8 5.2 | 3 0.8 5.0 | 3 0.6 4.8 | .. .. | 3 0.7 4.5 | 3 0.7 4.4 | 3 0.8 5.0 | .. .. | 3 0.7 4.8 | 3 0.7 4.5 | 8 | ~~352~~ 252 |
| 314 | 9 | 3 0.8 4.1 | 3 0.8 4.3 | 3 0.6 4.5 | 3 0.5 3.8 | 3 0.8 4.7 | 3 0.4 4.6 | 3 0.3 4.6 | 3 0.3 3.9 | 3 0.6 4.6 | 3 0.5 4.5 | 3 0.4 4.2 | 3 0.4 3.8 | 9 | 310 |
| 237 | 10 | 2 0.4 3.7 | 2 0.4 3.4 | 2 0.4 3.2 | 2 0.4 3.8 | 2 0.2 3.6 | 2 0.3 3.3 | 2 0.2 3.7 | 2 0.2 3.7 | 2 0.3 3.9 | 2 0.3 3.6 | 2 0.3 3.8 | 2 0.2 3.5 | 10 | 239 |
| 282 | 11 | 3 0.4 3.5 | 3 0.4 3.1 | 3 0.7 3.8 | 3 0.7 3.6 | 3 0.2 3.6 | 3 0.3 3.3 | 3 0.4 3.4 | 3 0.4 3.6 | 2 0.3 4.0 | 2 0.3 3.6 | 3 0.5 3.6 | 3 0.5 4.0 | 11 | 268 |
| 266 | 12 | 3 0.6 3.8 | 3 0.5 3.6 | 2 0.4 3.4 | 2 0.5 3.8 | 3 0.4 3.8 | 3 0.3 3.9 | 2 0.2 3.5 | 2 0.2 3.5 | 3 0.5 4.1 | 3 0.4 3.7 | 2 0.4 3.6 | 2 0.3 3.7 | 12 | 267 |
| 308 | 13 | 3 0.4 4.1 | 3 0.6 4.2 | 3 0.4 4.5 | 3 0.4 4.2 | 3 0.3 4.0 | 3 0.4 4.0 | 3 0.5 3.8 | 3 0.6 4.2 | 3 0.4 4.1 | 3 0.4 4.3 | 3 0.4 4.1 | 3 0.5 4.2 | 13 | ~~269~~ 304 |
| 307 | 14 | 3 0.7 4.2 | 3 0.7 4.1 | 3 1.1 4.2 | 1 1.2 4.5 | 3 0.6 4.3 | 3 0.9 4.0 | 1 1.2 4.6 | 1 1.4 4.7 | 3 0.6 4.6 | 3 0.8 4.7 | 3 0.9 4.3 | 1 1.4 5.0 | 14 | 323 |
| 295 | 15 | 1 1.3 4.5 | 1 1.2 4.5 | 3 1.0 3.9 | 3 0.8 4.3 | 1 1.4 4.6 | 1 1.3 4.6 | 1 1.0 4.5 | 1 1.1 4.1 | 1 1.6 4.8 | 1 1.3 4.4 | 1 1.3 4.2 | 1 0.9 4.6 | 15 | 271 |
| 282 | 16 | 3 0.8 4.0 | 3 0.6 3.6 | 3 0.4 3.4 | 3 0.4 3.0 | 3 0.8 4.1 | 3 0.5 4.2 | 3 0.4 3.9 | 3 0.4 3.3 | 3 0.7 4.2 | 3 0.6 4.1 | 3 0.4 3.5 | 3 0.4 3.5 | 16 | 294 |
| 267 | 17 | 3 0.4 3.1 | 3 0.5 3.1 | 3 0.4 3.3 | 3 0.4 3.5 | 3 0.4 3.0 | 3 0.5 3.0 | 3 0.5 3.2 | 3 0.5 3.9 | 3 0.3 3.2 | 3 0.4 3.2 | 3 0.4 3.4 | 3 0.4 3.6 | 17 | 269 |
| 288 | 18 | 3 0.5 3.4 | 3 0.4 3.5 | 3 0.6 3.6 | 3 0.6 4.2 | 3 0.4 3.5 | 3 0.7 3.5 | 3 0.7 3.2 | 3 0.7 3.3 | 3 0.4 3.6 | 3 0.4 3.8 | 3 0.5 3.6 | 3 0.5 4.4 | 18 | 292 |
| 311 | 19 | 3 0.7 4.0 | 3 0.7 4.0 | 3 0.8 4.1 | 3 0.5 4.3 | 3 0.7 3.7 | 3 0.6 3.5 | 3 0.7 4.2 | 3 0.6 4.7 | 3 0.8 3.8 | 3 0.7 4.2 | 3 0.5 4.5 | 3 0.7 4.7 | 19 | 319 |
| 308 | 20 | 3 0.7 4.5 | 3 0.9 3.8 | 3 1.0 3.8 | 3 1.1 3.0 | 3 0.9 4.1 | 3 0.9 3.8 | 3 1.0 4.0 | 3 1.0 3.0 | 3 0.9 4.2 | 3 0.8 4.0 | 3 0.9 3.7 | 3 0.8 3.6 | 20 | 309 |
| 277 | 21 | 3 0.8 3.0 | 3 0.5 3.5 | 3 0.4 3.6 | 3 0.5 3.4 | 3 0.8 3.0 | 3 0.7 3.5 | .. .. | .. .. | 3 0.7 3.8 | 3 0.7 3.0 | 3 0.4 3.8 | 3 0.4 3.9 | 21 | 287 |
| 262 | 22 | 3 0.4 3.7 | 3 0.4 3.0 | 3 0.3 2.8 | 3 0.3 3.3 | .. .. | .. .. | 3 0.3 3.2 | 3 0.3 3.6 | 3 0.5 3.7 | 3 0.4 3.5 | 3 0.2 3.0 | 3 0.3 3.5 | 22 | 271 |
| 230 | 23 | 2 0.3 3.3 | 2 0.2 3.5 | 2 0.2 3.7 | 2 0.2 3.6 | 2 0.3 3.8 | 2 0.3 4.0 | 2 0.3 3.5 | 2 0.3 3.5 | 2 0.2 4.0 | 2 0.2 4.0 | 2 0.3 3.5 | 2 0.2 3.4 | 23 | 238 |
| 249 | 24 | 2 0.2 3.2 | 3 0.3 3.0 | 3 0.4 3.0 | 3 0.8 3.0 | 2 0.2 3.2 | 3 0.2 3.6 | 3 0.4 2.8 | 3 0.9 2.7 | 3 0.2 3.5 | 3 0.2 3.4 | 3 0.4 3.5 | 3 0.8 3.1 | 24 | 271 |
| 256 | 25 | 3 0.7 3.8 | 1 0.8 3.8 | 1 1.2 4.1 | 1 1.0 4.2 | 3 0.8 3.9 | 1 1.0 3.8 | 1 1.1 4.1 | 1 1.0 4.0 | 3 0.9 3.8 | 1 0.9 3.9 | 1 1.2 4.2 | 1 0.9 4.5 | 25 | 263 |
| 270 | 26 | 1 1.0 4.0 | 3 0.8 3.7 | 3 0.7 3.0 | 3 0.8 3.0 | 1 1.0 3.9 | 3 0.8 3.5 | 3 0.6 3.4 | 3 0.7 3.4 | 1 1.1 4.3 | 3 0.6 4.3 | 3 0.8 3.1 | 3 0.7 3.5 | 26 | 284 |
| 256 | 27 | 3 0.6 2.9 | 2 0.4 3.0 | 3 0.3 3.3 | 3 0.4 3.7 | 3 0.5 3.1 | 2 0.5 3.0 | 3 0.4 3.1 | 3 0.3 3.2 | 3 0.5 3.0 | 2 0.4 3.0 | 3 0.3 3.1 | 3 0.3 3.4 | 27 | 250 |
| 196 | 28 | 2 0.3 5.5 | 2 0.3 3.5 | 2 0.3 4.0 | .. .. | 2 0.2 3.5 | 2 0.3 3.7 | 2 0.3 3.9 | 2 0.3 4.0 | 2 0.3 3.5 | 2 0.3 3.5 | 2 0.3 3.8 | 2 0.4 3.6 | 28 | 237 |
| | 29 | .. .. | .. .. | .. .. | .. .. | 3 0.4 3.5 | 3 0.5 4.0 | 3 0.7 3.8 | 3 0.6 3.8 | 3 0.4 3.7 | 3 0.6 4.0 | 3 0.5 3.6 | 3 0.7 3.4 | 29 | 289 |
| 66 | 30 | .. .. | .. .. | 3 1.0 3.5 | .. .. | 3 0.8 3.5 | 3 0.8 3.6 | 3 0.9 3.5 | 3 1.0 4.0 | 3 0.8 3.7 | 3 0.9 3.5 | 3 0.8 3.7 | 3 0.8 4.3 | 30 | 305 |