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DEUTSCHE AKADEMIE DER WISSENSCHAFTEN  
ZU BERLIN

VERÖFFENTLICHUNG DES GEODÄTISCHEN INSTITUTES  
IN POTSDAM

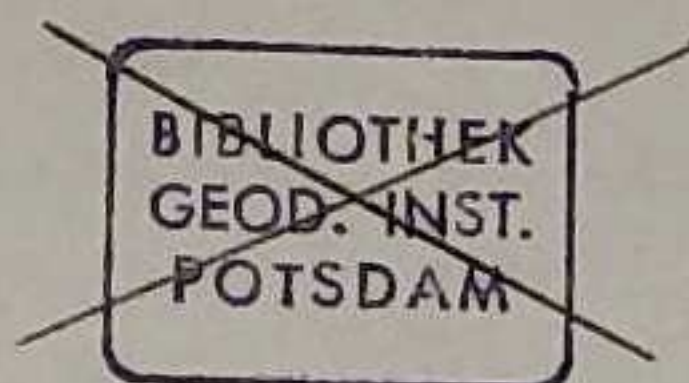


# SEISMOMETRISCHE BEOBACHTUNGEN

IN

## POTSDAM

1952



gelöscht  
13.4.76

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AKADEMIE-VERLAG · BERLIN





SEISMOMETRISCHE BEOBSACHTUNGEN IN POTSDAM 1952

Station: Potsdam, Geodätisches Institut.

$\varphi = 52^{\circ} 22.8'$ ,  $\lambda = 13^{\circ} 4.1' = 0^h 52^m 16.5^s$  E. v. Grw.

80 m über NN. Untergrund: Sand (diluviale Ablagerungen).

Seismographen: Wiechert (1000 kg) E, N; Galitzin-Wilip z, E, N.

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- Jan. 1, 08: eLN 06, eLz 07. Starke MsB.
- 3, 06: iPz, ePN 09:04k, iPPe 09:37, ePPz 09:40, ePPPz 09:48, iSEN 13:16, izN 13:31, eLZEN 18. Kein ausgeprägtes M. Starke MsB.  $H = 06:03:52$ ,  $\Delta = 23.5^{\circ}$ .
- 4, 06: iPKP<sub>1</sub>z 07:13 a, iPKP<sub>2</sub>z 07:21, 07: eLzN 09. MsB.  $H = 05:47:29$ ,  $\Delta = 148^{\circ}$ .
- 12, 20: iPz 23:24 a, iz 24:08, e(S)<sub>N</sub> 33:(14), e(SSS)<sub>N</sub> 42:19, e(SSS)<sub>z</sub> 42.5, eLZEN 48, MzN 58.5. Starke MsB.
- 13, 04: iPZEN 16:25k, iz 16:43, e(PP)z 19:51, ePPPz 21:36, eSz, iSe, iSN 26:51, ez 27:25, eSSN 32.4, eLN 42, eLE 43, eLz 46, MNW 51:45 ( $T = 26$  sec,  $A = 290 \mu$ ), Mz 57.9. Starke MsB.  $H = 04:03:50$ ,  $\Delta = 84.5^{\circ}$ .
- 18, 01: eEN 39:35, ez 39:38. Starke MsB.
- 19, 23: eLzN 34. MsB.
- 20, 15: eLz 17. MsB.
- 21, 03: iPz 54:44, 04: ez (05.0), eLz 20, eLE 24. MsB.
- 23, 03: ePz 39:02, eLZE 55. MsB.
- 27, 09: eLN 48. MsB.
- 28, 06: eLz 41. MsB.
- 29, 01: eLN 45, eLE 48, eLz 51.
- 31, 20: ePz 29:33, ez 40.4. Starke MsB.
- 31, 21: (ez 05:10), eLz 29. Starke MsB.

- Fbr. 3, 20: e(L)ZEN 53.2. MsB.
- 5, 05: eLzN 24.4.
- 5, 17: eLN 44, eLz 46, eLE 49.
- 6, 05: ePz 36:50, eLZEN 57. MsB.
- 10, 06: ePzN 14:50, eSze 18:43, iSN 18:47, eLz 21. MsB.  $H = 06:09:58$ ,  $\Delta = 21.5^{\circ}$ .

This book was donated to the ISC from the collection of Professor Nicolas H. Ambrose

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- Fbr. II, 07: ePz 13:39, iPPz 17:46, i!PPE, iPPN 17:52, iSKSE 23:13, iSN 24:09, ee 30:19, i(SS)N 31:13. MsB. H = 07:01:04,  $\Delta = 99^\circ$ . Sehr tiefer Herd.
- 14, 03: ePz 52:50, i!PPZE, ePPN 57:25, ize 59:02, iPPPZE 59:40, ePPPN 59:47, 04: in 03:39, i(S)N 05:09, i!PSz 06:55, iSSPN 13:06, eLN 27, eLZE 31. H = 03:38:06,  $\Delta = 111^\circ$ .
- 14, 21: ePz (15.4), eSN 25:32, eSE 25:(37), eScSz (25.9), eLN 42, eLZE 44.
- 16, 22: eLN 18.
- 17, 18: eLZEN 21.
- 23, 22: eZEN 00.0.
- 24, 21: ePNZEN 26:50, eSNZ 27:42, eSNE, iSN 27:45. H = 21:25.7,  $\Delta = 4.5^\circ$ .
- 25, 01: i!PKPz 36:38a, iPKPEN 36:42, iPPz 39:52, iPPN 40:01, iPKSz 40:18, iPPPz 43:11, 02: eLN 21, eLZE 27, MN 42.5. H = 01:17:05,  $\Delta = 143.5^\circ$ .
- 25, 02: ePKPz 15:11.
- 26, 11: iPz, ePEN 44:12k, ipPz 45:09, isPz, eSPN 45:36, iPPZE 48:09, ePPN 48.1, ipPPZE 49:03, ipPPN 49:08, iSKSZE 54:24, iSEN 55:08, ipSz oder iSPz 56:34, isSN 56:54, 12: iSSN 01:50, eLZEN 12. H = 11:30.0,  $\Delta = 97^\circ$ . Tiefer Herd.
- 26, 15: ePz 51:57, 16: ee 02.8, ez 02:54, ez 03:56, eLz 15, eLN 18, eLE 20, ME 30.4, Mz 34.5.
- 26, 21: ez 28:49, EN 29:45, 22: eLZN 26.
- Mrz. 1, 16: eLN (12), eLz 17. MsB.
- 3, 07: (ez 32:32), (ez 49:33), 08: eLz (37). Starke MsB.
- 3, 18: eLz 27. Starke MsB.
- 4, 01: iz 34:34, iz 34:43, i!Pz 34:46a, iPENEWNW 34:49, Galitzin-Wilip-Registrierungen sind nicht weiter analysierbar, i!SEWNW 44:39 (N-Nadel abgefallen), i!PPSEW 45:35, eEW 51.6, eLEW 57, (02: E-Nadel 09.5 abgefallen). MsB. H = 01:22:48,  $\Delta = 77.5^\circ$ .
- 4, 16: iPz 42:52, eSE 52:47, 17: eLEN 11, eLz 13. MsB. H = 16:30:51,  $\Delta = 78^\circ$ .
- 4, 19: ePKPz 49:44, iPKSN 53:11. MsB. H = 19:30:28,  $\Delta = 132^\circ$ .

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- Mrz. 4, 20: ePz 08:13, iSEN 17:58, eSKSz 18:13, iScSEN 18:29, eLN 33, eLZE 35, MEN 39:49, Mz 48:41. MsB. H = 19:56.2,  $\Delta = 77.5^\circ$ .
- 4, 21: eLEN 30. MsB.
- 5, 04: ePz 01:06, iSEN 10:56, EN 20.1, eLEN 28, eLz 30, MN 39:33. MsB. H = 03:49:06,  $\Delta = 77.5^\circ$ .
- 5, 09: ez 29.0, eLN 55, eLE 57, eLz 59. MsB.
- 5, 16: ePz 06:11, iSN 15:59, eLN 30, eLZE 33. MsB. H = 15:54:19,  $\Delta = 76.5^\circ$ .
- 5, 18: eLN 40, eLz 45. MsB.
- 6, 18: eLZN 45. MsB.
- 7, 07: ePz 44:42, iSEN 54:41, ePSN 55:32, ePPSE 55:(44), 08: eLEN 08, eLz 11, ME 18.3, MN 19.2, Mz 25:33. MsB. H = 07:32.7,  $\Delta = 78.5^\circ$ .
- 7, 18: eLEN 57, 19: eLz 02. MsB.
- 7, 20: eLEN 25, eLz 30. MsB.
- 8, 11: ez 41:50, eLZN 47. MsB.
- 9, 04: ez 49:13, eLEN 54, eLz 55. MsB.
- 9, 05: ez 49:29, eLZN 57. MsB.
- 9, 17: i!Pz 15:37a, iPEN 15:40, iPPZE 18:30, eSz, i!SEN 25:21, iSKSz, i!SKSE 25:47, i(PPS)z 26:25, eZE 31:28, EN 31.5, eLN 39, eLZE 40. M ist von kurzperiodischen Wellen überlagert. MsB. H = 17:03:47,  $\Delta = 76^\circ$ .
- 9, 20: iPz 11:13a, ePPz 13:35, iSN 20:03, iPPSN 20:39, eLN 35, eLz 36, eLE 39. MsB. H = 20:00:20,  $\Delta = 66.5^\circ$ .
- 10, 18: eLEN 43, eLz 47. MsB.
- 11, 21: eLN 00. MsB.
- 11, 21: eLEN 19, eLz 20. MsB.
- 12, 01: eLN 55, 02: eLz 00. MsB.
- 12, 12: eLZEN 25.
- 13, 06: eLN 38, eLZE 39, Mz 41:02.
- 13, 14: ez (10.0), ize 13:34, (ie 14:22), iSEN 19:09, ePSEN 20.5, i(PPS)N 21:07, i(PPS)E 21:10, eLZEN 39. H = 13:57:25,  $\Delta = 81.5^\circ$ . Tiefer Herd.
- 14, 18: eLN 53, eLz 56. MsB.
- 14, 21: ez 07:10, eLEN 36, eLz 39. MsB.
- 15, 11: e(S)E 40:02, i!(S)N 40:07, 12: eLN 03, eLZE 04. MsB.
- 16, 22: ez 21:15, eLN 50, eLz 52, eLE 53.
- 19, 01: iPz, ePEWNW 31:23k, ez 34:15, eSSZEW 34:37, eLEWNW 37, Mz 39:04. H = 01:27.5,  $\Delta = 16^\circ$ .



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- Mrz. 19, 08: eZEWNW 20:(19), eLEW 22, eLz 23.  
 — 19, 09: eLz 42, eLEWNW 43.  
 — 19, 11: i!PZEW, ePNW 10:47k, i!SKSEW 21:22, i!SEW 21:58,  
 iPSEW 23:21, i(PPS)EW 24:11, iEW 25:28, iSSPEW 28:38,  
 eLEWNW 44, MEW 58:57 ( $T = 15$  sec,  $A = 245 \mu$ ).  
 $H = 10:57:21$ ,  $\Delta = 95^\circ$ .  
 — 21, 00: eLN 43, eLE 47, eLz 50. MsB.  
 — 21, 17: eLEN 20, eLz 25. MsB.  
 — 22, 15: eLN 16, eLz 20. MsB.  
 — 22, 19: eLZN 05. Starke MsB.  
 — 22, 19: eLZN 46. Starke MsB.  
 — 23, 16: eLN 14, eLE 19, eLz 20. MsB.  
 — 25, 03: ePz 39:40, iPPN 39:54, iSN 43:09, e(SS)z 43:16, eLEN 46,  
 eLz 47.  $H = 03:35:13$ ,  $\Delta = 19^\circ$ .  
 — 25, 04: iz 27:25a.  
 — 25, 09: ez 50:20, 10: eLN 31, eLz 34, eLE 39.  
 — 27, 16: eLZEN 43.  
 — 27, 22: eLN 38.
- Apr. 1, 04: eLE 31, eLZN 32.  
 — 1, 15: eLZN 32.  
 — 1, 21: eLN 04, eLZE 06.  
 — 2, 19: eLZEN 30.  
 — 2, 20: eLz 12.  
 — 3, 03: eLZEN 29.  
 — 4, 03: iPZN, ePE 04:22a, ez 04:(34), iPcPN 04:46, iSN 13:44,  
 iSE 13:48, eSKSE oder eScSE 14:23, eSKS oder ScSZN  
 14.5, eLEN 28, eLz 31.  $H = 02:52:55$ ,  $\Delta = 72^\circ$ .  
 — 4, 08: eLN 35, eLZE 39.  
 — 4, 20: eLz 45.  
 — 8, 10: ePz 13:41, eSKSEN 24:09, eSz 24:48, eSN 24:53, eLZN  
 45, eLE 51. MsB.  $H = 10:00.3$ ,  $\Delta = 94^\circ$ .  
 — 10, 06: ePz 09:48, eSN 20.0, eSE 20:13, eLN 38, eLz 40, eLE  
 42, MZN 50:46. MsB.  $H = 05:57.3$ ,  $\Delta = 83^\circ$ .  
 — 15, 00: ePz 03:43, ePPz 07:51, eSN 15:20, eLN 37, eLz 40.  
 MsB. Apr. 14,  $H = 23:49:50$ ,  $\Delta = 101^\circ$ .  
 — 15, 06: iPz 11:41k, eSKSZN 21:47, eLN 39, eLz 42. MsB.  
 $H = 05:59:50$ ,  $\Delta = 76^\circ$ .  
 — 15, 09: ez 34:40. MsB.  
 — 15, 19: eLEN 50, eLz 54. Starke MsB.

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- Apr. 16, 03: ez 52:07, 04: eLEN 24, eLz 27. Starke MsB.  
 — 16, 12: eLEN 08, eLz 10. Starke MsB.  
 — 17, 04: eLN 56, eLz 57, eLE 59.  
 — 17, 09: eLZEN 49.  
 — 18, 16: ez (17.5), eEN 24:01, eLEN 53, eLz 55.  
 — 18, 20: eLZN 46.  
 — 19, 10: iPz, ePE 11:11k, i!PcPZE, ePcPN 11:16, iPPZE, ePPN  
 14:20, i!SEN 21:21, eSz 21:24, ePSz 22:05, eLN 32,  
 eLZE 35, MZE 49.  $H = 09:58:53$ ,  $\Delta = 81^\circ$ .  
 — 19, 12: eLZEN 09.  
 — 19, 20: eLZN 27, eLE 30.  
 — 23, 16: eLZEN 36.  
 — 28, 11: iPz 06:08k, i(PcP)z 06:30, iSN 15:48, iSKSEN 16:12,  
 eLE 30, eLZN 33.  $H = 10:54:20$ ,  $\Delta = 75.5^\circ$ .  
 — 29, 02: iPz, iPEN 47:18a, iPz 48:22, iPPE 48:25, eSPz 48:54,  
 iSN 57:04, i!SE 57:07, iN 57:30, iE 57:33, iPSEN 58:24,  
 ee 58:(48), iSN 59:04, 03: eLN 15.  $H = 02:35.3$ ,  
 $\Delta = 83^\circ$ . Tiefer Herd.  
 — 29, 20: eLZE 43, eLN 47.
- Mai 1, 16: eLZEN 35.  
 — 4, 14: ez 35:08, ez 36:31, 15: eLZN 28, eLE 33.  
 — 8, 01: ePz 10:56, ePcPz 11:11, ez (14.5), iSE, eSN 21:00, eLEN  
 41, eLz 44.  $H = 00:58:42$ ,  $\Delta = 81^\circ$ . Etwas tief.  
 — 8, 21: iPPz, ePPE 28:55, e(SKS)E 35:29, eSKKSE 35:52,  
 e(SKKS)N 36.0, eSE, iSN 36:22, iz 37:47, ePSE 37:(55),  
 ePPSN 38.9, ez 39:33, 22: eLN 00, eLz 01.  
 $H = 21:10:40$ ,  $\Delta = 102.5^\circ$ .  
 — 9, 03: ez 48:(22), 04: eLZN 44, eLE 50.  
 — 9, 08: eZEN (06.0).  
 — 9, 18: iPKPz 06:42k, ePPZEN 08:38, eSSN 25.7, eLz 37, eLEN  
 43, MN 57—58, 19: ME 02:56, Mz 03:02.  $H = 17:47:42$ ,  
 $\Delta = 126^\circ$ . Etwas tief.  
 — 10, 10: eLZE 17.  
 — 10, 15: eLEN 04.  
 — 10, 17: ez 22:(24), eLN 57, eLE 59, 18: eLz 01.  
 — 10, 20: eLE 30.  
 — 12, 19: ePz 39:28, eSE 43:30, eLEN 47.  $H = 19:34:26$ ,  $\Delta = 22.5^\circ$ .



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- Mai 13, 19: iPz, ePe 44:25k, ePPE 47:55, ePPz 48.0, eSz 55.0, ee 55:13, ePSz 56.2, ePSE 56:13, ePSN 56:(18), 20: eLN 12, eLZE 14, MN 27:02, ME 30:41. H = 19:31.8,  $\Delta = 87^\circ$ . Tiefer Herd.
- 14, 00: eLZN 41.
- 14, 00: iPz, ePEN 48:52k, e(PcP)z 49:09, e(PcP)EN 49:12, iz 49:17, iSEN 58:40, iSz 58:43, 01: eLZEN 16, MN 28:18. H = 00:36:59,  $\Delta = 76.5^\circ$ .
- 14, 21: eLN 51, eLZE 55.
- 15, 10: ez 38:06, 11: eLEN 07.
- 15, 18: eLN 57, 19: eLE 01, eLz 04.
- 15, 19: eLz 29, eLE 33, eLN 35.
- 16, 06: eLz 26, eLE 27, eLN 31.
- 16, 10: eLEN 55, eLz 56.
- 16, 14: eLZEN 43.
- 16, 20: iPz, iPe 58:23k, iPN 58:28, 21: ePPz (01.5), i!Se 08:55, i!SN 08:58, eSz 09.0, eLZEN 26. H = 20:45:40,  $\Delta = 86^\circ$ .
- 16, 22: ez 39:21.
- 17, 10: iPz 00:07a, ePEN 00:10, iSEN 09:(52), eSKSZ 10:06, iSKSEN 10:11, en (15.6), eLEN 27, eLz 30, Mz 37:54, MN 41:01. H = 09:48:16,  $\Delta = 76^\circ$ .
- 19, 18: iPz 44:14a, ePEN 44:17, iPcPzN 44:25, iPcPe 44:28, ePPZEN 47:12, i!SEN 54:02, eSKSZ, i!SKSEN 54:22, iPPSN 54:48, iPPSz 54:51, 19: eEN 00.0, eLN 03:(13), eLEN 10, eLz 12, ME 20:02, MZN 21:(49). H = 18:32:21,  $\Delta = 76^\circ$ .
- 22/23, 23: ePEN 20:43, iSEN 30:54, eLEN 52, 00: MEN 01:44. H = 23:08:22,  $\Delta = 81.5^\circ$ .
- 23, 04: eEN 43:18, 05: eLEN 05.
- 23, 20: eEN 43:22.
- 24, 02: ee 23:45, eLN 45, eLE 51.
- 24, 16: iPz 18:46a, ePEN 18:49, i!SN 29:26, ee, i!N 29:49, eLE (44), eLZN 48, 18: W<sub>2E</sub> 26, W<sub>2Z</sub> 29, W<sub>2N</sub> 32. H = 16:05:55,  $\Delta = 87.5^\circ$ .
- 25, 07: eLEN 47, eLz 49.
- 25, 16: eLN 45, eLZE 48.
- 26, 02: iPz 57:03k, ePe 57:06, 03: eSEN 05:31, eSSEN 09:(43), eLZEN 21. H = 02:46:32,  $\Delta = 63^\circ$ .

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- Mai 28, 07: iPz 55:20, ePN 55:24, ipPz 56:33, iPPZE 58:13, 08: eSEN 04:43, eSKSZ 05:01, eSKSE 05:04. H = 07:44.0,  $\Delta = 77^\circ$ . Tiefer Herd.
- 28, 08: iPz, ePe 10:35, isPz 12:40, iPPz 13:41, ee 16:36, iz 16:42, i!SEN 20:02, i(SP)z 20:40, ePSE, i!PSN 21:47, eSSEN 25:16. L und M sind nicht ausgeprägt. H = 07:59:02,  $\Delta = 80^\circ$ . Tiefer Herd.
- 31, 05: ez (20.1), 06: eLN 09, eLz 12, eLE 15.
- Jun. 2, 03: eLN 29, eLZE 33.
- 2, 10: eLN 39, eLZE 41.
- 3, 05: en (59.7), ez (59.9).
- 4, 06: ez 28:27, eLZN 55.
- 4, 20: eLZEN 40.
- 4, 21: ez 43:33.
- 5, 06: ePz 09:17, eSe, i!SN 19:50, eLZEN 40. H = 05:56:33,  $\Delta = 86^\circ$ .
- 7, 07: e(L)EN 32.
- 9, 14: ePz 52:55, ePEN 53.0, eSN 56:32, eSe 56:36, eLEN 59, 15: eLz 00. H = 14:48:18,  $\Delta = 20^\circ$ .
- 10, 10: ePKPz 18.1, eSKSN 21:31, eSKSE 21:34, en 28:31, eSSN 39.7, eLN 57, 11: eLZE 00. H = 09:53.5,  $\Delta = 143^\circ$ .
- 11, 00: iPPZE, ePPN 50:44, ePKSZEN 53:47, i!SKSE, eSKSN 56:49, 01: ePSz 00.1, eSSE 06.0, eLZEN 24, Mz 35:10, ME 40:07, MN 45:23. H = 00:31:41,  $\Delta = 109^\circ$ .
- 11, 04: eLZEN 07.
- 12, 11: eLZEN 12.
- 13, 01: ePzN 11:18, ePe 11:22, eSEN 14:29, i!SSN 14:44, eLEN 16.8, eLz 17. H = 01:07.3,  $\Delta = 17^\circ$ .
- 14, 02: ez 16:37.
- 14, 08: eLEN 38, eLz 42.
- 15, 15: eZE 25:59, eZEN 39.0, eLN 47, eLZE 48.
- 15, 17: eLZEN 07.
- 16, 03: ePKPzN 57:17, epPKPz 59:10. H = 03:38.3,  $\Delta = 149^\circ$ . Tiefer Herd.
- 17, 04: ez 27:32, en 27:36, 05: eLN 30, eLz 33, eLE 41.
- 17, 12: en 30.0, eLN 55, eLZE 59.





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- Jun. 17, 22: ePz 42:38, eSEN 46.9, eLN 49, eLE 50, eLz 51.  
H = 22:37.4,  $\Delta = 24^\circ$ .
- 18, 04: eLEN 42, eLz 45.
- 19, 00: e(L)ZEN 30.5.
- 19, 12: (ez 24:13), ePZE 24:18, iSE, i!SN 33:27, i(SSS)<sub>N</sub> 41:25, e(SSS)<sub>E</sub> 41.5, eLZN 48, eLE 50, MN 53. H = 12:13:02,  $\Delta = 70^\circ$ .
- 19, 21: eZN 26:00, eEN 31:26, eEN 46.9, eLN 56, 22: eLZE 04.
- 20, 05: i!Pz 58:37a, iPEN 58:41, 06: iPPz 01:44, iPPE 01:48, eSZN, iSE 08:52, ePSZN, iPSE 09:23, eSSN 14.3, eZE 18.8, eN 18.9, eLEN 27, eLz 29, MZE 38.5. H = 05:46.3,  $\Delta = 81^\circ$ .
- 20, 10: eLN 02, eLE 04, eLz 06.
- 21, 06: iPZN, ePE 40:46a, eSE, iSN 50:25, ePSN 51:03, 07: eLEN 06, eLz 09. H = 06:29:01,  $\Delta = 75^\circ$ .
- 22, 10: iPz, ePEN 20:02a, eSE, iSN 29:41, iPSN 30:15, eLEN 46, eLz 49. H = 10:08:17,  $\Delta = 75^\circ$ .
- 22, 21: i!Pz 53:41a, i!PEN 53:44, iz 54:10, 22: eSz, i!SEN 03:23, iPPSz 04:13, eLZEN 19. H = 21:41:53,  $\Delta = 75.5^\circ$ .
- 22, 22: iz 11:54.
- 23, 12: ePz 15:35, iSEN 25:44, eSz 25:48, eLEN 45, eLz 46, Mz 55:23. H = 12:03:17,  $\Delta = 81^\circ$ .
- 24, 16: iPz 40:50, ePN 40:53, ePE 40.9, eSN 50:33, 17: eLz 09, eLEN 11. H = 16:28:59,  $\Delta = 76^\circ$ .
- 25, 23: ePz 30:44, iSEN 39:38, eSSSz 46.9, ee 47.4, eLZEN 52. M ist nicht ausgeprägt. H = 23:19:47,  $\Delta = 67^\circ$ .
- 26, 00: eLZEN 56.
- 26, 15: eEN 44.5, eLN 46, eLz 47.
- 27, 13: ez 15.3, eLZEN 17.
- 30, 21: ez 12:59, eN 25.6, eLEN 34, eLz 37.
- Jul. 2, 17: eLN 38, eLZE 41.
- 4, 05: ePKP<sub>1</sub>z 04:39, ePKP<sub>2</sub>z 04:50, epPKP<sub>1</sub>z 07.0. H = 04:46.0,  $\Delta = 147^\circ$ . Sehr tiefer Herd.
- 4, 20: eLZEN 39.5.
- 4, 21: eZEN 35.0.
- 8, 15: iz, eN 59:50.
- 8, 21: eLEN 08.5, eLz 09.

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- Jul. 9, 18: ePZEN 28:12, eSE, iSN 38:52, e(PS)<sub>E</sub> 40:08, eLZN 51, eLE 54. H = 18:15:21,  $\Delta = 87.5^\circ$ .
- 9, 20: ePz 49:42, 21: iSEN 00:24, eLN 13, eLE 16, eLz 18. H = 20:36:48,  $\Delta = 88^\circ$ .
- 9, 21: eZN 11:46.
- 10, 16: iPKPz, ePKP<sub>N</sub> 03:54, ePKP<sub>E</sub> 03.9, ipPKPz 06:33, in 13:11. H = 15:45.5,  $\Delta = 145^\circ$ . Sehr tiefer Herd.
- 13, 03: ez 09:26.
- 13, 07: ez 43:42.
- 13, 12: i!PKPz, ePKP<sub>E</sub> 17:31k, ePKP<sub>N</sub> 17:39, epPKPz 18:50, iPPz 20:46, eSKP<sub>N</sub> 20:54, esPP oder pSKPz 22:22, e(sSKP)<sub>Z</sub> 22:56, e(sSKP)<sub>N</sub> 23.0, ez 25:20, eN 25:26, eN 28.9, eSSSN 44.1, 13: eLN 01, eLE 02, eLz 05. H = 11:58.6,  $\Delta = 142^\circ$ . Tiefer Herd.
- 13, 17: ePz 48:47, ez 52:35, ePPPz 55:39, ePPPE 55:43, eSKSE, iSKSN 59:30, 18: eSKKKSE 00:18, eSN 00:(43), ee 03.0, eSSN 08.2, iSSSN 12:28, ee 12:41, eLN 26, eLZE 30. H = 17:34.4,  $\Delta = 107.5^\circ$ .
- 15, 06: ePz 19:16, eSE 29:51, eSN 29:56, eLN 46, eLE 52, eLz 54.
- 16, 02: e(L)ZEN 08.
- 16, 02: eZEN (45.0).
- 17, 16: iPZE, ePN 21:55k, ipPZEN 22:16, isPZE 22:24, i!SEN 31:53, isSZE, i!sSN 32:20, iPSN 32:58, iPSz 33:01, iPPSE 33:09, eEN 41.5, ee 47.0, eLZEN 50, MN 57:08. H = 16:09:52,  $\Delta = 80^\circ$ . Etwas tief.
- 18, 05: ez 37.3, 06: eLz 40, eLN 42.
- 18, 18: e(PKP)<sub>Z</sub> 59.0, 19: ePPZEN 01:09, iPKSEN 02:21, iPKSz 02:28, eLZE 42, eLN 45. H = 18:39.6,  $\Delta = 131^\circ$ .
- 19, 04: ez 01:30.
- 21, 12: i!PZEN 04:45a, i(PP)<sub>E</sub> 07:53, e!PP<sub>N</sub> 08.0, i!PPz 08:01, i!SEN 15:05, iScSz 15:14, i!PSZE 16:03, i!E 17:03, e!(SS)<sub>N</sub> 20.9, iz 21:12, ez, e!N 25.0, eLEN 29, eLz 32, MEW 46—48 (T = 11 sec, A = 140  $\mu$ ), MNW 47:57 (T = 16 sec, A = 295  $\mu$ ). H = 11:52:14,  $\Delta = 83.5^\circ$ .
- 21, 20: eEN 12:15, eLN (25), eLE 30, eLz 32.
- 22/23, 23: ez 10:29, 00: eLZE 06, eLN 10.
- 23, 00: iPz 51:00a, ePPZE 54:10, 01: eLZEN 18. H = 00:38:37,  $\Delta = 82^\circ$ .
- 23, 14: eLN 01, eLZE 04.



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- Jul. 24, 22: iPz, ePN 21:09a, ePE 21:13, epPzN 21:25, ePPz 24:02, iSN 30:50, eSZE 30:55, ee, iSKS oder sSN 31:12, iPSN 31:41, ePPSz 32:(00), eZE 39.9, eLN 47, eLz 49, eLE 50. H = 22:09:25,  $\Delta = 76.5^\circ$ . Etwas tief.
- 25, 15: eLz 37, eLN 39, eLE 41.
- 25, 19: eLEN 50, eLz 51.
- 25, 20: eLEN 22, eLz 26.
- 26, 14: ez 38:12, in 47:01.
- 27, 03: eLz 31, eLE 32, eLN 34.
- 27, 08: iPKP<sub>1z</sub> 42:12, iPKP<sub>1EN</sub> 42:16, iPKP<sub>2zN</sub> 42:31, ipPKP<sub>1z</sub> 44:16, isPKP<sub>1z</sub> 45:04, iPPz 45:38, e(PP)e 45:41, in 51:48, ez 55:16, 09: iSSN 04:05, i!SSE 04:08. L und M sind nicht ausgeprägt. H = 08:23.4,  $\Delta = 148^\circ$ . Sehr tiefer Herd.
- 29, 07: ez 16:19, eEN 27:18, eLZEN 45, MzN 55:27, Me 58:10.
- 29, 20: eLN 33, eLz 34, eLE 35.
- 30, 04: eLZN 19.
- 31, 12: eLEN 49, eLz 53.
- 31, 13: eLZEN 18.
- Aug. 1, 10: eN 43:31, eLN 50, eLz 51.
- 1, 20: eLEN 33.
- 3, 14: eLE 07, eLN 08, eLz 09.
- 4, 02: eN 01:46, eN 05:25, ee 05:29, eLZN 09.
- 6, 05: eLEN 37, eLz 38.
- 6, 07: eLN 56, eLE 58, 08: eLz 01.
- 7, 22: ePz 05:22, eSEN 15:10, eSKSN 15:26, eLN 31, eLE 34, eLz 36. H = 21:53.5,  $\Delta = 76.5^\circ$ .
- 13, 03: (eLN 37).
- 13, 09: (eLN 42).
- 13, 14: ee 44:46, eLN 48, eLZE 49.
- 13, 21: ePz 22:34, eSEN 29:16, eLN 35, eLZE 36. H = 21:14:11,  $\Delta = 45.5^\circ$ .
- 14, 16: ePz 13:38, ez 13:53, iSN 23:59, eSE 24.0, eLN 49, eLZE 55. H = 16:01:07,  $\Delta = 83.5^\circ$ .
- 14/15, 23: ez 37:31, eEN 37.5, 00: eLN 15, eLZE 19.
- 16, 14: eZN 12:44, ee 12:48, eLEN 52, eLz 57.
- 17, 04: ez 37.0.

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- Aug. 17, 16: iPZE 12:13, i!PZE, iPzN 12:17a, i!PPZE, iPPN 14:30, izEN 15:44, i!PPPZE 15:52, i!SZEN 20:29, iScSz 22:06, iSSz, i!SSE 24:17, eLEN 28, eLz 30, MZE 40.6. H = 16:02:06,  $\Delta = 60^\circ$ .
- 18, 13: ez 24:03, ez, ie 33:37, 14: eLZEN 04. MsB.
- 19, 11: eLN 33, eLZE 38.
- 19, 14: ez 14:02.
- 20, 15: iPz, ePN 37:21a, iSEN 47:17, eLZEN 57, 16: Mz 15:55. H = 15:25:17,  $\Delta = 78.5^\circ$ .
- 21, 16: ez 37:42.
- 22, 23: eLZEN 24.
- 24, 13: eLN 37, eLZE 40.
- 24, 20: eN 53.0, eLEN 55, eLz 56.
- 25, 01: ez 55:19, 02: eLZEN 19.
- 27, 11: iz 39:15, iz 39:31.
- 28, 11: iz 04:12, iz 04:28. MsB.
- 28, 15: eLZEN 18. Starke MsB.
- 29, 05: ez 40:27, 06: eLN 13, eLZE 16.
- 30, 06: eLN 36, eLz 39.
- 30, 15: eLZN 21.
- 31, 16: iPz, ePN 21:26k, iSEN 31:06, iSKSEN 31:32, eLN (47), eLZE (49). H = 16:09:38,  $\Delta = 75.5^\circ$ .
- Spt. 7, 03: eLz 48, eLN 50, eLE 54.
- 7, 05: eLZN 17, eLE 22.
- 9, 13: iPZEN 07:32k, eSKSz, iSKSE 17:58, i!SE 18:10, eSz, i!SN 18:13, iz 18:20, iPSz 19:09, iPSN 19:13, eSSEN 24.4, eLN (32), eLz 34, eLE 35, Me 42—44, Mz 42:41. H = 12:54:42,  $\Delta = 87.5^\circ$ .
- 11, 09: eLE 00, eLN 03, eLz 04.
- 11, 22: ez 21:32, in 28:01.
- 11, 22: iPKPz 46:38k, ePKPN 46:43, iz 50:39, ePPE 50:42, ePPN 50:47, ePPPN 54:31, 23: eLE 40, eLZN 42. H = 22:26.6,  $\Delta = 157.5^\circ$ .
- 12, 01: ePz 07:51, iSSEN 10:58, eLZEN 13.5. H = 01:04:17,  $\Delta = 15^\circ$ .
- 14, 08: eLZEN 28.
- 14, 09: iPz 44:16k, iSN 52:16, eSSSEN 58.0, iSSSz 58:17, 10: eLEN 02, eLz 06, MN 07:32. H = 09:34:19,  $\Delta = 58^\circ$ .



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- Spt. 15, 04: (eE 44.9), (eZ 46.1), eLZN 54, eLE 56.  
 — 15, 11: ePz 36.8, eSZE 43:36, eSSN (47.0), eLZEN 54.  
 H = 11:28.2,  $\Delta = 47^\circ$ .
- 17, 01: eZ 35:27.
- 20, 13: eZ 17:(50), 14: eLZEN 14.
- 21, 02: iPz, iPe, ePN 44:00a, iPz 45:05, iSpz 45:35, iz 47:20, eE 47:24, iPPZE 48:07, iPPN 48:12, eZE 48:(33), iN 48:36, eSPN 49:31, iSPZE 49:36, iE 51:46, iN 51:50, iSKSEN 54:16, iSKSz 54:19, iN 54:53, iSN 55:12, iz 55:46, iE 56:17, iN 56:20, iSPz 56:47, iSN 57:12, iSZE 57:16, iSPE 58:01, iSPz 58:32, iSPE 58:37, 03: eSSN 02.0. L und M sind nicht ausgeprägt.  
 H = 02:30.5,  $\Delta = 102^\circ$ . Tiefer Herd.
- 21, 11: eZ 24:54, eZ 25:07, eLEN 57, 12: eLZ 01.
- 22, 12: eLZEN 22.
- 23, 20: ePZE 35:26, iSEN 39:03, eSz 39:07, eLZEN 42.  
 H = 20:30.9,  $\Delta = 19.5^\circ$ .
- 24, 20: eZ 40:37, iE 49:54.
- 27, 19: iPz 17:10, iPcPz 17:26, ePPz 20:03, ePPPz 21:55, eZ 22:54, eSz, iSEN 26:34, iN 27:12, eZ 27:18, ePSE 27:30, iSN 27:38, eN 35:19, eLZN 43, eLE 46. MsB.  
 H = 19:05:46,  $\Delta = 75^\circ$ . Tiefer Herd.
- 29, 16: eZEN 47.8.
- 30, 13: iPz 02:59k, iPe 03:02, iPcPz 03:35, iSe, iSN 11:59, iSz 12:02, iPSen 12:11, iPSz 12:14, iScSe, iScSn 12:58, iN 13:14, iE 13:18, eSSz 16:32, e(SSS)N 19.9, i(SSS)z 19:54, i(SSS)E 20:02, eLEN 24, eLZ 25, MN (30.4), Mz 34:40, ME 34:44. Starke MsB. H = 12:51:56,  $\Delta = 68^\circ$ .
- Okt. 1, 13: eLN 50, eLZE 51. MsB.
- 2, 14: eLZ 35.
- 3, 07: iPz 49:41a, i(PcP)z 49:48, iz 49:55, 08: eSE 00:29, iSN 00:32, eLZ 20, eLEN 22. H = 07:36:38,  $\Delta = 90^\circ$ .
- 4, 04: eLZEN 37.
- 4, 20: eLZ 24, eLN 26.
- 5, 10: ePz 25:(15), iSEN 28:12, eSz 28:18, eLZE 30, eLN 31.  
 H = 10:21.4,  $\Delta = 16^\circ$ .

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- Okt. 5, 10: ePzN 58:45, ePPE 58.9, 11: eE 00:33, eZ 00:37, iE 00:48, eSz 01:43, iSEN 01:48, iSSz 01:57, eLEN 03, eLz 04, ME 04:43, MN 05:45, Mz 05:58. H = 10:54:50,  $\Delta = 16.5^\circ$ .
- 5, 22: iPZE 14:11, eN 14:15, iZE 14:18, iPcPz 15:08, ePSEN 22:14, ePPSz 22:23, eZEN (26.9), eLZEN 31, Mz 39:37.  
 H = 22:04.5,  $\Delta = 56^\circ$ .
- 6, 02: eLN 59, 03: eLZE 01.
- 6, 20: eLN 00, eLZ 01.
- 6, 22: e(P)z 41:01, i(S)E 50:17, e(S)N 50:20, iE, eN 50:32, 23: eLN 10, eLZE 11.
- 7, 16: eEN 15:26, eLZEN 18.
- 7, 18: eLN 31, eLZE 35.
- 8, 05: eE, iN 19:47, eZ 19:50.
- 8, 14: eLZEN 56.
- 10, 11: e(P)ZEN 55.9, i(S)E 58:52, i(S)N 58:55, e(SS)z 58:58, 12: eLZEN 01, MN 02:45, Mz 02:57.
- 10, 16: eZ 15:17, 17: eLZN 03, eLE 05.
- 10, 18: iPz 56:03k, iPz, iPe 56:06a, iPz 58:02, 19: iSE 02:56, eSz, iSN 02:59, iSSSN 07:25, eLEN 11, eLZ 14.  
 H = 18:47:32,  $\Delta = 47^\circ$ .
- 11, 00: eZ 34:24, 01: eLN 09, eLZE 11.
- 11, 01: eZ 35:28, 02: eLE (05), eLZN 10.
- 13, 16: ePz 46:07, ePN 46:11, eS oder SSe 49:11, eS oder SSz 49:15, eLEN 50.6, eLZ 51.8.
- 13/14, 23: eZ 44:06, eZ 44:44, 00: eLz 54, eLN 59.
- 15, 00: eLz 40, eLE 45, eLN 49.
- 15, 03: eLN 32, eLZE 38.
- 15, 17: ePz 55:(46), 18: eS oder SSN 00:11, eS oder SSe 00:14, eLEN 05, eLz 06.
- 18, 00: e(L)ZEN 04.
- 18, 05: ePKPz 42:05, eZ 42:13, ePPz 45:04, iPKSN 45:40, 06: eLN 26, eLE 30, eLz 32. H = 05:22:35,  $\Delta = 140^\circ$ .
- 18, 12: ePz 07.8, iSN 16:09, eSE 16.2, eLN 21, eLZE 25.  
 H = 11:57.6,  $\Delta = 61^\circ$ .
- 18, 21: eLZN 57.
- 19, 03: eLZEN 53.
- 19, 21: e(L)ZN 16.
- 20, 01: eLZN 27.
- 20, 15: (e)z 23.0, eLN 56.





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- Okt. 21, 02: ez 43:42, 03: eLz (14).  
 — 22, 04: iPzEN 19:19k, eSZE, iSN 22:51, iSSSN 23:25, eLZEN 25.  
 H = 04:14.9,  $\Delta = 19^\circ$ .  
 — 22, 17: ePz 05.8, iPPN 06:15, iN 09:43, iSE 09:51, iSz 09:54,  
 i(SS)E 10:43, iSSSN 10:50, eLN 12.5, eLE 13.6, eLz 14,  
 Mz 16:05. MsB. H = 17:00.6,  $\Delta = 23^\circ$ .  
 — 26, 08: ez 31:48. MsB.  
 — 26, 08: iPz 52:46k, ipPz 53:58, epPN 54.0, isPz 54:30, iPPz  
 55:56, ePPN 56.0, 09: iSEN 02:29, iPSN 03:59, isSN  
 04:31, iSSN 07:50, iSSE 07:53. L und M sind nicht  
 ausgeprägt. MsB. H = 08:41.0,  $\Delta = 81^\circ$ . Tiefer Herd.  
 — 26, 13: ez 32:22, 14: eLEN 04, eLz 07. MsB.  
 — 26, 15: eLEN 15, eLz 19. MsB.  
 — 26, 15: ez 58:22. MsB.  
 — 26, 16: iPz 05:09, e(PP)z 08:07, eLZEN 30. MsB.  
 — 26, 18: iPz 14:08, i(PcP)z 14:23, ePPz 17:04, iSEN 24:06,  
 i(PPS)N 25:18, eLEN 40, eLz 43, Mz 54:37, ME 55:00.  
 MsB. H = 18:02:00,  $\Delta = 79^\circ$ .  
 — 26, 19: iPz, ePE 31:22, iSE 41:19, iScSE 41:38, eLN 59, 20:  
 eLE 02, eLz 05. MsB. H = 19:19:14,  $\Delta = 79^\circ$ .  
 — 26, 20: ez 39:(31), 21: eLE 11, eLzN 14. MsB.  
 — 26, 22: ez 12:41, eLEN 45, eLz 50. MsB.  
 — 27, 03: iPz, ePEN 29:19, iPPz 32:13, iSEN 39:16, eLE 58, eLzN  
 59, 04: ME 09:49. MsB. H = 03:17:12,  $\Delta = 79^\circ$ .  
 — 28, 04: iPz 41:34, iSN 51:03, 05: eLzN 04, eLE 06. Starke  
 MsB. H = 04:29:58,  $\Delta = 73.5^\circ$ .  
 — 28, 06: ez 43:07, 07: eLN 13, eLZE 15. Starke MsB.  
 — 28, 17: eLZEN 33. Starke MsB.  
 — 29, 19: ez 53:36. MsB.  
 — 31, 16: iPz 49:24k, i(PcP)z 49:46, iPPz 52:21, iPPPz 54:10,  
 eSN 59:21, iSE 59:25, 17: ePSz 00:09, eLZEN 19, ME  
 29:52, Mz 30:01. MsB. H = 16:37:16,  $\Delta = 79^\circ$ .
- Nov. 1, 00: ePz 02:09, eSN 10:43, eSSSZ 17.5, eSSSN 17.6, eLz 21,  
 eLEN 22. MsB. Okt. 31, H = 23:51:35,  $\Delta = 63.5^\circ$ .  
 — 2, 00: ez 05:11, iPKPz, ePKPN 05:15a, iz 05:20, e(pPKP)z  
 06.0, iz 08:49, 01: eLN 04, eLz (06).  
 — 4, 12: eLzN 26, eLE 29.

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- Nov. 4, 17: i!Pz, iPENEWNW 09:52k, i!ENEWNW 09:58, Galitzin-  
 Wilip-Registrierungen sind nicht weiter analysierbar,  
 i!SEWNW 19:12, e!EWNW 25.3, e!LEWNW 28, 41 sind die  
 Nadeln abgefallen. H = 16:58:24,  $\Delta = 72^\circ$ .  
 — 4, 21: iPz 12:17. MsB.  
 — 4, 22: ePz 04:(30). MsB.  
 — 4, 22: iPz 24:25. MsB.  
 — 4, 23: ePz 40:37. MsB.  
 — 5, 02: ePz 31:30, iz 32:00, iSKSN 41:34, eSKSz 41:38, eLZE  
 56, eLN 58, 03: MZE 08:07. MsB. H = 02:19:58,  
 $\Delta = 73^\circ$ .  
 — 5, 03: iPz, ePN 41:16a, ee 41:22, i(PcP)z 41:26, iSE 50:46,  
 04: eLE 08, eLN 10, eLz 11, Mz 18:22, MN 18:28.  
 MsB. H = 03:29:40,  $\Delta = 73.5^\circ$ .  
 — 5, 06: ePz 09:26, iPcPz 09:34, iN 18:50, eSE 19:00, ePPSz  
 19:(51), eLE 33, eLN 36, eLz 38. MsB. H = 05:57:43,  
 $\Delta = 74.5^\circ$ .  
 — 5, 07: ePz 17:44. MsB.  
 — 5, 08: ePz 49:(57). MsB.  
 — 5, 09: eLz 24. MsB.  
 — 5, 09: ePz 41:37. MsB.  
 — 5, 11: ePz 29:46. MsB.  
 — 5, 11: ePz 58:08. MsB.  
 — 5, 13: i!Pz, iPEN 17:53a, iPPz 20:31, i!SEN 27:15, eSz 27:19,  
 eLEN 43, eLz 45, ME 51:38. MsB. H = 13:06:26,  $\Delta = 72^\circ$ .  
 — 5, 14: ePz 22:28. MsB.  
 — 5, 15: ePz 00:16. MsB.  
 — 5, 19: iPz 19:46, iSE 29:04, iSN 29:08, eLE 45, eLzN 48. MsB.  
 H = 19:08:18,  $\Delta = 72^\circ$ .  
 — 5, 20: ePz 42:06. MsB.  
 — 5, 21: ePz 57:45, 22: iSN 07:15. MsB. H = 21:46:09,  
 $\Delta = 73.5^\circ$ .  
 — 5, 22: ePz 57:29, 23: i(S)E 07:07, iN 07:14, eLE 24, eLzN 25.  
 MsB.  
 — 6, 01: eLZEN 42. MsB.  
 — 6, 02: ePz 35:15. MsB.  
 — 6, 04: ePz 06.0, eLEN 38, eLz 41. MsB.  
 — 6, 06: eLE 21, eLN 26. MsB.  
 — 6, 11: ePz 08:40. MsB.  
 — 6, 18: eLZEN 29. MsB.



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- Nov. 6, 19: i!Pz, iPN 57:30k, ePE 57:33, 20: iSEN 06:56, ez, iE 07:10, iN 07:13, iPSz 07:27, eLZEN 24, Mz 35:25. MsB. H = 19:45:57,  $\Delta = 73^\circ$ .
- 6, 20: MZN 56.2. MsB.
- 6, 23: ePz 40:37. MsB.
- 7, 03: eLz 03, eLN 04. MsB.
- 7, 04: eLz 40. MsB.
- 7, 12: ePz 20:38, iSEN 30:03, eSz 30:10, eLEN 48, eLz 51. MsB. H = 12:09:09,  $\Delta = 72.5^\circ$ .
- 7, 13: ePz 53:13, 14: eLEN 21, eLz 24. MsB.
- 7, 14: iPz 19:58, eLE 44, eLZN 46, MZE 56:30, MN 56:45. MsB.
- 7, 21: eLN 37, eLZE 41. MsB.
- 7, 22: iPz 17:07, iSN 26:46, eSE 26:50, eSz 26:53, eLN 45, eLE 48, eLz 54, Mz 56:03. MsB. H = 22:05:22,  $\Delta = 75^\circ$ .
- 7/8, 23: iz 32:06, 00: eLz 29, eLN 31. MsB.
- 8, 05: iPz 11:26, eLEN 40, eLz 44. MsB.
- 8, 09: ePz 01:30, eLZN 37. MsB.
- 8, 17: eLZEN 45. MsB.
- 8, 19: ez 45:00, iPz, ePEN 45:03k, eSN 54:40, eSz 54:44, eSE 54:48, ePSz 55:21, 20: eLEN 10, eLz 11, ME 17:19, MN 22:44, Mz 22:47. MsB. H = 19:33:18,  $\Delta = 75^\circ$ .
- 8, 22: ePz 37:34. MsB.
- 9, 00: ePz 04:36, eLE 34, eLZN 36. MsB.
- 9, 00: iPz, ePN 34:00, iz 34:09, 01: eLEN 02, eLz 04. MsB.
- 9, 01: ePz 29:05, iPcPz 29:17, iSEN 38:32, iE 38:43, iN 38:46, eLEN 55, eLz 58. MsB. H = 01:17:32,  $\Delta = 73^\circ$ .
- 9, 01: ePz 50:36. MsB.
- 9, 04: ePz 46:44, 05: eLZEN 15. MsB.
- 9, 05: ePz 17:43, eLEN 44, eLz 46, ME 49:29. MsB.
- 9, 06: eLZEN 36. MsB.
- 9, 12: ePz 34:32, 13: eLEN 09, eLz 11. MsB.
- 9, 15: ePz 20:09. MsB.
- 9, 15: iPz 34:18a, 16: eLZEN 02, Mz 11:52. MsB.
- 9, 15: iPz 43:00. MsB.
- 9, 15: ePz 59:19, ez 59:30. MsB.
- 9, 18: eLN 52, eLz 56. MsB.
- 9, 21: eLZEN 20. MsB.
- 10, 01: ePz 06:39, iPcPz 06:51, eSE 16:06, iSN 16:09, eLZN 32, eLE 34. MsB. H = 00:55.0,  $\Delta = 74^\circ$ .
- 10, 04: eLz 14. MsB.

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- Nov. 10, 05: ePz 37:19, ez 37:29, 06: eLN 06, eLZE 07. MsB.
- 10, 06: eLZN 47. MsB.
- 10, 10: eLZEN 24. MsB.
- 10, 18: eLE 34, eLZN 35. MsB.
- 10, 20: iPz, ePEN 38:02, i(PcP)z 38:11, iSEN 47:25, 21: eLz 04, eLEN 08. MsB. H = 20:26:34,  $\Delta = 72^\circ$ .
- 10, 22: ePz 05:36, eLZE 35, eLN 37. MsB.
- 10/11, 23: ePz 41:43, 00: eLEN 14. MsB.
- 11, 01: ePz 08:(10), eLE 36, eLN 37, eLz 38. MsB.
- 11, 09: eLZN 06, eLE 07. MsB.
- 11, 14: ePz 22:01, eLZEN 50.
- 11, 19: ePz 32:14, iSE 41:53, 20: eLEN 00, eLz 02. H = 19:20:30,  $\Delta = 75^\circ$ .
- 12, 00: eLE 51, eLN 52, eLz 53.
- 12, 14: eLz 21, eLEN 22.
- 12, 16: ez 53:31, 17: eLEN 21, eLz 23.
- 12, 18: eLZEN 13.
- 13, 08: ePz 10:17, i(PcP)N 10:23, ePPN 13:(09), ePPPN 14:51, eSz 19:43, eSEN 19:46, ePPSN 20:(43), eSSN 24:(38), eLE 29, eLZN 34, MZN 47:35. H = 07:58.7,  $\Delta = 73.5^\circ$ .
- 13, 15: ePz 34:05, eSEN 43:30, 16: eLEN 01, eLz 02, MN 11:48. H = 15:22:31,  $\Delta = 73^\circ$ .
- 13, 22: iPZN, ePE 37:11k, iPcPz 37:20, eSN 46:39, 23: eLEN 01, eLz 06, Mz 14:34, MN 14:39. H = 22:25:34,  $\Delta = 73.5^\circ$ .
- 15, 01: eLE 44, eLN 46, eLz 49.
- 15, 05: ePz 13:01, eLZN 40.
- 15, 05: iPz, ePN 34:34, iPcPz 34:46, iSE, eSN 43:58, 06: eLEN 02, eLz 04. H = 05:23:04,  $\Delta = 72.5^\circ$ .
- 15, 15: eLN 37.
- 16, 00: eLN 57.
- 16, 02: eLZN 22.
- 16, 04: ePz 22:04, EN 31:(45), eLN 50, eLZE 54.
- 16, 07: ez 59:00, 08: EN 09:04, eLZN 35, eLE 37.
- 16, 12: ez 41:34, 13: eLN 14, LZE 18.
- 17, 12: eLN 49, eLz 51.
- 18, 07: ez 54:15, 08: eLEN 24.
- 18, 08: iPz 25:03k, ePN 25:06, eLz 52, eLN 53, eLE 54.
- 19, 06: eLN 58, 07: eLz 02.
- 19, 10: ez 33:19, eLN 52, eLZE 54.
- 19, 11: eLEN 54, eLz 57.



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- Nov. 20, 05: eLN 55, 06: eLz 00. MsB.  
 — 20, 08: eLZN 34. Starke MsB.  
 — 20, 12: eLZEN 10. Starke MsB.  
 — 20, 16: e(L)N 07, eLz 15, eLE 17. MsB.  
 — 21, 03: eLN 13, eLz 15.  
 — 21, 03: eLEN 59, 04: eLz 01.  
 — 22, 05: ePz 30:46, 06: eLEN 04, eLz 05.  
 — 22, 07: iPz 59:10k, ePN 59:13, 08: iSEN 09:33, eN 10:15, ePSz 10:30, eLEN 28, eLz 30. MsB.  $H = 07:46:37$ ,  $\Delta = 84^\circ$ .  
 — 26, 13: ePz 36:41, iSe 46:02, 14: eLz 05, eLEN 07. Starke MsB.  $H = 13:25:14$ ,  $\Delta = 72^\circ$ .  
 — 27, 07: iPz, ePe 28:13a, ePN 28:16, ePcP oder PPZE 29:59, ez 35:17, in 35:25, e(SS)EN 37.4, e(SS)z 37:(27), e(ScS oder SSS)z 38:17, e(ScS oder SSS)N 38:22, ie 40:10. MsB. Tiefer Herd?  
 — 28, 07: eN 25:31, ez 25:34.  
 — 28, 08: iPz 16:59a, iPcPz 17:12, iSEN 26:27, iEN 26:41, eLZE 43, eLN 46.  $H = 08:05:26$ ,  $\Delta = 73^\circ$ .  
 — 28, 21: ez 20:25, ez 22:37, 22: eLZN (00).  
 — 29, 08: iPz, ePN 34:05k, i(PcP)EN 34:12, ePPPZN 38:31, i!SZN 43:20, i!SE 43:30, iSKSZE 44:04, e(SS)z 48:22, e(SS)N 48.4, eLEN 55, eLz 57, 09: ME 07:16 (TEW = 17 sec, AEW = 145  $\mu$ ), MN (11.4) (TNW = 14 sec, ANW = 90  $\mu$ ), Mz 11:34.  $H = 08:22:37$ ,  $\Delta = 72^\circ$ .  
 — 29/30, 23: iPz, iPN 57:49a, ePe 57.9, iPcPz 58:13, 00: ePPZN 00:29, iPPPz 02:14, i!SEN 07:09, i!(PS)E 07:23, i(PS)z, i!(PS)N 07:26, e!SSN 11.9, e(SSS)ZEN 15.4, eLE 17, eLN 19, eLz 20, Mz 32:17, MN 35:30.  $H = 23:46:25$ ,  $\Delta = 71.5^\circ$ .  
 — 30, 19: eLN 12, eLz 14.  
 — 30, 19: ePz 40:10, iSEN 49:28, eLZN 59, 20: eLE 04.  $H = 19:28:45$ ,  $\Delta = 71.5^\circ$ .
- Dez. 2, 19: in 21:01, eLZEN 41. MsB.  
 — 3, 22: ePz 37:09, 23: eLZN 05. MsB.  
 — 4, 04: ez 03:50, eEN 13:36, eLZN 29. MsB.  
 — 5, 21: eLz 15. MsB.  
 — 6, 03: ePz 45:55, 04: eLEN 15, eLz 17. MsB.

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- Dez. 6, 11: iPKPz 00:28k, ie 01:06, i(PP)z 02:14, e(PP)N 02:(17), ie 02:25, i(PPP)E 04:54, ie 14:06, i!(SSP)N 19:35, s(SSS)N 24.3, eLEN 38, eLz 40, 12: Mz 01:43, MN 02:15. MsB.  
 — 6, 21: i(PP)z 11:38, e(PP)E 11:41, i(SKS)N 16:48, eLEN 55, eLz 58. MsB.  
 — 7, 01: iPz 02:00k, ePe, iPN 02:02, iPcPz 02:12, iPPz, ePPN 04:44, i(PPP)N 06:46, iSe 11:33, eSN 11:36, ie 11:47, ez 12.0, iPSN 12:07, iPPSe 12:19, iPPSz 12:22, eSSN 16.5, in 20:21, eLZEN 27, MN 33—34. MsB.  $H = 00:50:21$ ,  $\Delta = 74^\circ$ .  
 — 7, 16: ePz 44:42, eSN 54:18, 17: eLZEN 13, Mz 22—23. MsB.  $H = 16:33:00$ ,  $\Delta = 74.5^\circ$ .  
 — 7, 21: eLZN 32. MsB.  
 — 8, 15: eZEN 38.0, eLN 45, eLZE 48. MsB.  
 — 10, 06: ePz 02:48, ePN 02:52, ePPE, iPPN 03:05, eN 06:12, ez 06:(18), ez 06:43, eN 06:46, iSSz 06:49, iSSSN 07:10, eLz 07.5, eLN 08, eLE 09, ME 11:31, MN 13:00, Mz 13:03. MsB.  $H = 05:58.1$ ,  $\Delta = 20^\circ$ .  
 — 10, 08: ePKPz 25:37, ePPz (29.0), 09: eLZN 15. MsB.  
 — 10, 14: eLz 34. MsB.  
 — 11, 09: iPz, ePN 09:52a, iPcPz 10:15, eSN 19:14, eLZEN 34, Mz 45.5. MsB.  $H = 08:58:25$ ,  $\Delta = 72^\circ$ .  
 — 12, 01: eN 08:36, eLZN 29. MsB.  
 — 12, 20: ez 43:28, iz 43:36, 21: eLEN 15, eLz 17. MsB.  
 — 15, 10: eLZEN 26. MsB.  
 — 16, 06: eLZN 59. MsB.  
 — 17, 23: iPZEN 08:29a, i!PEWNW 08:32, i!PPPNW 08:58, i!SEWNW 12:07, i!Sz 12:10, i!SSEW 12:32, i!SSz 12:36, eLZEW 14. Starke MsB.  $H = 23:03:51$ ,  $\Delta = 20^\circ$ .  
 — 18, 09: in 41:18, 10: eLZEN 00. MsB.  
 — 18, 11: eLN 11, eLZE 15. MsB.  
 — 22, 22: ePz 36:01, iSEN 45:14, iSKSE 45:57, 23: eLZEN 00, MZN 10—11. MsB.  $H = 22:24:43$ ,  $\Delta = 70.5^\circ$ .  
 — 24, 08: ez 53:48, ez 54:12, 09: eLZN 39. Starke MsB.  
 — 24, 15: eLN 15, eLz 17, eLE 19. Starke MsB.  
 — 24, 19: ePPz 00:13, ePSZEN 10.1, e(SSS)EN 21.9, eLZN 37, eLE 39, ME 53:34, Mz 54:09, MN 54:25. Starke MsB.  $H = 18:39.5$ ,  $\Delta = 123^\circ$ .  
 — 24, 22: eLN 40, eLZE 42. Starke MsB.



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- Dez. 25, 03: eLN 31, eLZE 34. Starke MsB.  
 — 25, 04: eLN 22, eLZE 26. Starke MsB.  
 — 25, 04: eLz 54, eLN 56, 05: eLE 03. Starke MsB.  
 — 25, 16: eLz 08. MsB.  
 — 25, 22: ePz 31:22, iPPZE 33:19, iSE 38:20, eSSZE 42.0, eLN 47, eLZE 49, Mz 57:29. MsB.  $H = 22:22.7$ ,  $\Delta = 48^\circ$ .  
 — 25, 23: eLN 53, eLz 55. MsB.  
 — 26, 11: ez 33:48, ez 36:11. MsB.  
 — 26/27, 23: iPzN 58:51a, eN 59:25, 00: ez 00:(47), e(S)z, i(S)E 01:09, eN 01:14, iE 01:31. MsB. Tiefer Herd?  
 — 27, 01: iPz, ePN 37:18, iz, ee 37:29, e(S)EN 46:47, iN 47:02, 02: eLZEN 06, Mz 15:02. MsB.  
 — 27, 17: eLZN 43. MsB.  
 — 28, 05: ePz 05:36, eLN 24, eLz 26. MsB.  
 — 28, 15: e(P)z 15:06, ez 19:09, eLZN 41, eLE 46, 16: MN 01—02, ME 03:00, Mz 03:06. MsB.  
 — 28, 18: ePz 48:51, 19: eLN 10, LZE 12. MsB.  
 — 29, 02: iPz 20:57a, ePPz 23:46, iSEN 30:36, eLZEN 49. MsB.  $H = 02:09:13$ ,  $\Delta = 75^\circ$ .  
 — 29, 18: eLZEN 04. MsB.  
 — 29, 23: e(PKP)z 40:07, iz 42:07, ez 42:58. MsB.  
 — 30, 12: iN 30:22, iE 30:28, eLZN 45, eLE 50.  
 — 30, 13: eLZEN 51.  
 — 30, 18: ez 47:29, 19: eLz 13.  
 — 31, 14: ePz 53:04, ePPN 53:11, eSSZN 56:50, eLEN 59, 15: eLz 00, MN 02:11. MsB.  $H = 14:48.7$ ,  $\Delta = 18.5^\circ$ .  
 — 31, 17: ePz 23:07, ePN 23:12, ePPz 23:22, eSSz, iSSE 26:44, eLEN 29, eLz 30, MN 32:14. MsB.  $H = 17:18.7$ ,  $\Delta = 18.5^\circ$ .  
 — 31, 21: ez 55:27, 22: eLZEN 24. MsB.

Mittlere Konstanten des Horizontalseismographen Wiechert:

	T	V	$\epsilon$
E	7 sec	375	3.0
N	7	350	3.0

Angenäherte Konstanten der Seismographen Galitzin-Wilip:

	l	$T_1$	$A_1$	$\mu^2$	T	k
Z	14.4 cm	11.4 sec	120 cm	-0.2	10 sec	100
E	11.9	12.0	120	+0.1	11	80
N	11.9	11.7	120	-0.2	11	85

Während des Berichtsjahres liegen lückenlose Registrierungen von Galitzin-Wilip z, E, N vor. Registrierungen von Wiechert sind als ew bzw. nw bezeichnet. In runde Klammern gesetzte Angaben sind unsicher.

Zur Analyse der Seismogramme wurden benutzt:

HAROLD JEFFREYS and K. E. BULLEN, Seismological Tables. British Association for the Advancement of Science, Gray Milne Trust, London 1948.

B. GUTENBERG et C. F. RICHTER, Données Relatives à l'Étude des Tremblements de Terre à Foyer Profond. Publ. du Bureau Central Séismologique International, Sér. A, Travaux Scientifiques, Fasc. 15, 1937.

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