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408 (1953)

~~1956. 716.~~



DEUTSCHE AKADEMIE DER WISSENSCHAFTEN
ZU BERLIN

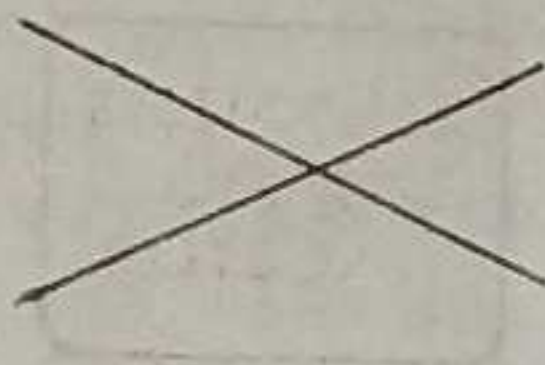
VERÖFFENTLICHUNG DES GEODÄTISCHEN INSTITUTES
IN POTSDAM

SEISMOMETRISCHE BEOBACHTUNGEN

IN

POTSDAM

1953



gelöscht 13.4.76

1955

AKADEMIE-VERLAG · BERLIN

SEISMOMETRISCHE BEOBACHTUNGEN IN POTSDAM 1953

Station: Potsdam, Geodätisches Institut.

$\varphi = 52^{\circ} 22.8'$, $\lambda = 13^{\circ} 4.1' = 0^{\text{h}} 52^{\text{m}} 16.5^{\text{s}}$ 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. 2, 03: ez 21:12, eLN 51, eLZE 53. MsB.
- 3, 18: eLN 44, eLZE 46.
- 4, 07: eLN 22, eLE 23, eLZ 25.
- 5, 05: eLZN 37.
- 5, 07: iPz 59:57k, 08: ePEN 00.0, iPPPz 04:17, iSE 09:21, iPSN 09:55, iE 10:39, iE 15:20, eLE 22, eLZ 24, M₁E 34.4, (TEW = 15 sec, AEW = 205 μ), M₁NW 36.1 (T = 14 sec, A = 165 μ), Mz 36:36, M₂E 39.3, M₂NW 42.0 (T = 14 sec, A = 225 μ), M₃E 45.0, (TEW = 12 sec, AEW = 130 μ). MsB. H = 07:48.3, $\Delta = 73^{\circ}$.
- 5, 10: iPz, iPEN 18:06a, iPcPz 18:21, iPPE 20:52, iPPPz 22:(40), iz 23:32, iE 23:36, i!SEN 27:33, iSz 27:36, iPPSz 28:25, ez 33:01, eN (33.4), iN 36:14, ez 36:29, eLE 41, eLN 42, eLZ (45). MsB. H = 10:06:30, $\Delta = 73.5^{\circ}$.
- 7, 00: (ez 04:26), izN 07:26, eLN 08, iz 08:21, ME 08:44, LZ 09, Mz 10:20. MsB.
- 7, 01: ez 24:51, iN 24:56, LEN 25.6, Mz 27.8. MsB.
- 7, 06: ez 00:17, eLZ 28, eLEN 30. Starke MsB.
- 7, 14: ez 29:02, ez 38:42, eLZN 58, 15: eLE 09. Starke MsB.
- 11, 23: ePz 03:37, iPZN 03:41k, eE 13:48, i!SN 11:54, iS oder PSE 12:01, iPSz 12:09, iEN 12:47, eSSN 15.8, eLE 22, eLZN 24, Mz 31:00, MN 31—32. MsB. H = 22:53:30, $\Delta = 60^{\circ}$.
- 12, 09: eLZN 42. Starke MsB.
- 12, 17: iPz 35:10, iPcPz 35:29, ipPz 35:40, iPPPz 40:00, ez 41.0, eSZN 44.5, ezN (50.0), eN 50:47, e(SSS)N 53:13, eLN 57, eLZE 59, 18: MZEN 11.8. Starke MsB. H = 17:23.6, $\Delta = 75^{\circ}$. Etwas tief.
- 13, 11: eLE 22, eLZN 23. Starke MsB.
- 15, 08: ez 22:37. MsB.
- 15, 20: ez 13:35, eN 13:38, eLZN 29, eLE 30. MsB.

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- Jan. 18, 18: ez 19:29. Starke MsB.
 — 19, 05: ePz 09:20, eSE 19:01, eLE 36, eLZN 37. Starke MsB.
 H = 04:57:32, $\Delta = 75.5^\circ$.
 — 20, 18: eLz 25, eLE 27, eLN 28. Starke MsB.
 — 21, 02: eLZN 23, eLE 25. Starke MsB.
 — 24, 23: eLZN 24. MsB.
 — 25, 12: ee 06:26, eLZEN 29. MsB.
 — 25, 19: ez 59:44, 20: eLN 20, eLz 22, eLE 24. MsB.
 — 27, 03: ePz 24:26, ePcPz 24:37, ie 34:05, iPSE 34:18, eLZEN 52.
 Starke MsB. H = 03:12.9, $\Delta = 72^\circ$.
 — 27, 04: ez 17.9. Starke MsB.
 — 27, 04: eLN (27), eLz (30). Starke MsB.
 — 30, 22: iPKPz 06:04, iz 08.6, iz 09:29, i(PKS)EN 09:36, eLZN
 50. Starke MsB.

- Fbr. 2, 09: ez 41:39, 10: eLEN 09, eLz 12. Starke MsB.
 — 2, 11: eLz 02. Starke MsB.
 — 5, 22: iPz, ePN 46:22, ePPZN 46:36, eSN 49:50, eSSz 50:06,
 eLEN 52, eLz 53. H = 22:42.0, $\Delta = 18.5^\circ$.
 — 6, 05: ez 44:54, 06: eLZN 16, eLE 17.
 — 6, 12: eLN 59, 13: eLZE 01.
 — 6, 13: iPz, ePEN 24:54a, iPcPz, ePcPN 25:05, ePcPE 25:08,
 iSEN 34:36, iSKSEN 34:55, eSKSz 34.9, i(PS)N 35:24,
 iPPSe 35:32, iPPSN 35:35, en 40.7, en 43.8, ez 43.9,
 eLZEN 51, 14: ME 01:27, MN 02:02, Mz 02:05.
 H = 13:13:02, $\Delta = 76^\circ$.
 — 6, 19: eLZEN 53.
 — 7, 18: ez 34:50, ee 34.9, eLEN 59, 19: eLz 03.
 — 7, 22: iPZEN 35:34a, iPPZEN 35:44, iPPPZE 36:04, iSE, i!SN
 39:08, iSz 39:12, iSSE 39:28, i!SSN 39.5, eLZEN 41,
 ME 43:28. H = 22:31:02, $\Delta = 19.5^\circ$.
 — 9, 15: ie 01:40, ez 01.7, eLE 30, eLN 32, eLz 35. Starke MsB.
 — 9, 22: eLZN 19. Starke MsB.
 — 11, 23: ez 30:38, eLZEN 47. Starke MsB.
 — 12, 08: iPZE, iPN 22:21k, iPPZEN 23:38, iSz, i!SEN 27:(47),
 i(SS)ZE 29:34, eLz (35), MN 38.0, ME 39.9, Mz 40:09.
 MsB. H = 08:15:34, $\Delta = 34^\circ$.
 — 13, 22: eLZN 36.

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- Fbr. 14, 08: ePz 47:35, ePEN 47:40, iSEN 51:08, eSz 51:12, iSSE
 51:32, eLE 52, eLZN 53. H = 08:43.2, $\Delta = 19^\circ$.
 — 14, 22: ez 05:50, ez 06:27, eLN 36, eLZE 39.
 — 19, 13: ePKP_{1z} 25:30, iPKP_{2z} 25:59, iPPz 29:35. MsB.
 H = 13:05:42, $\Delta = 154^\circ$.
 — 19, 15: iPz, ePEN 27:43k, i(PcP)z 28:21, en 35:28, ee 35:32,
 iSEN 35:48, iSz 35:52, eScSE 37:32, eLz 40, eLEN 42,
 MN 59:09. MsB. H = 15:17:39, $\Delta = 59^\circ$.
 — 22, 20: iPnz, ePnEN 16:59a, iP*ZEN 17:06, i(Pg)z 17:14, i(Pg)E
 17:18, ie 17:26, iSnz, i!Snn 17:33, i!S*ZE 17:39, i!S*
 oder Sgn 17:42. MsB. H = 20:16:19, $\Delta = 2.8^\circ$.
 — 22, 20: eP* oder PgzEN 35:23, ie 35:46, iSnn 35:51, iS*ZE 35:56,
 i!S* oder Sgn 35:59. MsB. H = 20:34.6, $\Delta = 2.8^\circ$.
 — 23, 00: ez 55:38, 01: eLN 14, eLZE 17. MsB.
 — 23, 03: ePz 53:09, 04: i(S)E 02:45, eLEN 21, eLz 24. MsB.
 — 25, 21: ePz 27:38, ePN 27:42, ez 27:45, i!pPz, epPE, ipPN
 27:51, ee 28:27, i!SEN 36:54, ie 38:00, iz 38:27.
 Starke MsB. H = 21:16.3, $\Delta = 72^\circ$. Etwas tief.
 — 26, 00: iz 43:41a, iz 44:15. Starke MsB.
 — 26, 12: ePKPz 01:45, ePPE 04:28, iPPz 04:30, ePKSE 05:07,
 iPKSz 05:10, ePKSN 05:14, ee 05:26, ee 17:22, e(SS)E
 21:43, e(SS)N 21:(46), en 26:15, eLN (36), eLE (39),
 eLz (45). Starke MsB.
 — 26, 16: eLz 45. Starke MsB.
 — 27, 20: e(L)z 45. MsB.
 — 28, 05: ez 55:30. MsB.
- Mrz. 3, 11: ePKPZN 46:36, ez 47:(49), ePPz 49:51, ez 50:47, ez
 54:48, 12: eLEN 36, eLz 38. Starke MsB. H = 11:27:02,
 $\Delta = 143^\circ$.
 — 3, 23: eLEN 33, eLz 35. MsB.
 — 4, 01: iz 15:20. MsB.
 — 4, 15: ee 37:51, ez 37:53, eLZN 40. MsB.
 — 5, 21: iPZN 12:47a, ePE 12:50, iPcPz 13:05, ipPz 13:15, iz
 14:02, ez 18.5, iSN 22:09, e(ScS)z 22.5, iScSN 22:42,
 iPPSz 23:13, eLE 36, eLZN 38. MsB. H = 21:01:23,
 $\Delta = 73.5^\circ$. Tiefer Herd.
 — 5, 21: iPz 33:24, 22: eLN (00), eLE 01, eLz 03. MsB.
 — 10, 22: eLEN 45, eLz 46. MsB.

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- Mrz. 13, 05: ePz 30:18, ePN 30:22, eSE 34.0, eLEN 37. MsB.
 H = 05:25.7, $\Delta = 20^\circ$.
- 14, 17: eLZEN 53. Starke MsB.
- 15, 14: ez 20:30. Starke MsB.
- 16, 18: eLN 00. MsB.
- 17, 07: eLZEN 20.
- 17, 13: iPz 16:08a, iSN 25:31, e(PPS)E 26:24, eLZN 42.
 H = 13:04:37, $\Delta = 72.5^\circ$.
- 18, 19: iPz, iPE 09:56k, ePN 09.9, iz 12:14, ie 12:18, i!SEN 13:00,
 iSSz 13:20, eLE 14, eLz 14.5. MsB. H = 19:06:02,
 $\Delta = 16.5^\circ$.
- 18, 21: LEN 27, LZ 28. MsB.
- 19, 08: iPz, ePE 38:49k, i!ZE, eN 38:54, iN 38:57, i!(PeP)z,
 e(PeP)E 39:18, iPZEN 39:42, izEN 40:14, iN 45:22, iz
 47:38, i!SZEN 47:45, iSKS oder ScSEN 48:26, iSKS
 oder ScSz 48:30, i!(PS)NW 48:42, eSSZE 52.4, eLN 56,
 09: LZE 01, MN 59:35. H = 08:27:54, $\Delta = 71^\circ$. Tiefer
 Herd.
- 19, 13: eLZEN 03.
- 19, 21: eLZEN 23.
- 21, 19: eN 38.9, iN 39:09, ee 39:26, ez 39.5, i(S)EN 39:40, i(SS)N
 39:48, eLE 39.8, eLN 39.9, eLz 40. Starke MsB.
- 22, 20: eLZN 23. MsB.
- 23, 02: e(L)E 24, e(L)ZN 25. MsB.
- 23, 05: eLZEN 38. MsB.
- 23, 13: eLz (25). Starke MsB.
- 24, 21: eLN 29, eLE 30, eLz 32. Starke MsB.
- 25, 06: eLZN 34. MsB.
- 26, 02: eLN 51, eLE 53, eLz 55. Starke MsB.
- 31, 01: ez (03.0), eN 03:12, eLE 03.5. Starke MsB.
- Apr. 1, 01: eLZEN 57. MsB.
- 2, 04: iPPz 16:56, ePPPz 19:30, eLZN 56, eLE 58. MsB.
 H = 03:56.2, $\Delta = 123^\circ$.
- 2, 08: eLZEN 31. MsB.
- 3, 04: ez 37:36, 05: eLz 44. Starke MsB.
- 4, 06: ez 04:31, eLZEN 37. Starke MsB.
- 5, 10: eLN 58, 11: eLE 01, eLz 04. MsB.

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- Apr. 6, 00: iz, ee 56:00, eN 56.1, 01: iN 03:19, iPSZE 05:10, ie
 05:41, ee 06:08, eSSN 11:21, eSSSN 15:33, eLZN 32,
 eLE 34, 02: (W₂)ZEN 50. H = 00:36.2, $\Delta = 112.5^\circ$.
- 6, 04: ez 02.9, ee (13.0), ee (13:18), eLN 40, eLE 42, eLz 45.
- 6, 12: iPz 26:11k, ePePz 26:29, eSE 35:33, i(PS)E 35:49,
 i(PS)N 35:51, eLE 52, eLZN 55. H = 12:14:44, $\Delta = 72^\circ$.
- 7, 17: ez 47:15, ez 49:24.
- 7, 20: ez 52:52.
- 8, 00: ez (16.4), ez 25:12, eLN 49, eLZE 54.
- 8, 11: eLEN 58.
- 13, 23: eLEN 25, eLz 26.
- 14, 13: iPz 41:36k, ePE 41:39, eN 41:43, iPz 43:51, iPz 44:48,
 ePPz 45:33, ez 46:20, i(pPP)z 47:19, e(PPP)z 48:01,
 i(sPP)z 48:26, iSKSEN 51:12, i(SKKS)N 51:29, iSE
 51:47, i!SN 51:56, iSPz, eSPE 53:05, iPSE 54:32, ePSN
 54:36, ie 55:23, eZN 55:31, iz 55:38, isSE 55:47, isSN
 55:50, esPS oder sSPE 56:55, esPS oder sSPN 57.0.
 MsB. H = 13:29:26, $\Delta = 93^\circ$. Sehr tiefer Herd.
- 15, 01: ez 28:36, eLE 55, eLZN 57. MsB.
- 16, 09: eLz 42. MsB.
- 17, 00: eLz 50, eLEN 52. MsB.
- 19, 00: eLz 14, eLE 19. MsB.
- 20, 12: eLN 24. MsB.
- 20, 20: eLz 40.
- 21, 18: eLN 30, eLz 32.
- 21, 21: eLN 58.
- 23, 01: eLEN 31, eLz 32.
- 23, 04: eP₁z 01:27, eP₁₁z 04:03, eS₁E 09:55, eS₁z 09.9, eS₁₁E
 12:30, e(SSS₁)ZEN 16.9, eLZEN (25). H_I = 03:51.0,
 H_{II} = 03:53:35, $\Delta = 62.5^\circ$.
- 23, 16: e(PKP)z 43:(30), eZE 44:46, iPPZEN 45:15, iN 45:26,
 ie 46:05, iz 47:11, iPPPE 47:54, iz 48:23, iN 48:27,
 iz 55:01, iPSN 55:15, ie 55:39, 17: ie 01:50, ee 06.6,
 eLZEN 19, MN 33—34, (TNW = 20 sec, ANW = 235 μ),
 Mz 37—39, ME 41:24, (TEW = 18 sec, AEW = 180 μ).
 H = 16:24.3, $\Delta = 125^\circ$.
- 24, 02: iPz 15:08, iZE 15:14, iPPPz 16:01, iz 16:12, iSN 19:31,
 iSE 19:34, ez 20.0, i(SS)E 20:19, ie 21:(19), iN 21:(22),
 eLZEN 22. H = 02:09:42, $\Delta = 25^\circ$.

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- Apr. 25, 00: eLN 04, ez 04:16, ee 04:19.
 — 25, 16: eLN 49, ez 49:22, ee 49:27.
 — 29, 03: ez 52:37, 04: eLEN 36, eLz 40.
 — 29, 20: en 42:35, 21: eLEN 00, eLz 03.
 — 30, 06: i!PKPz, iPKPEN 46:18k, iz 47:35, iPPz, ePPN 49:30, iPKSN 50:00, 07: eLE (33), eLN (35), eLz (39). H = 06:26.7, $\Delta = 144^\circ$.
 — 30, 15: eZE 56.0, 16: eLN 00, eLZE 02.
- Mai 1, 20: eLEN 16, eLz 17.
 — 1, 21: eLN (44), eLZE 48.
 — 2, 05: ez 45:50, en 45.9, eLEN 50, eLz 51.
 — 2, 12: en (39.5), ez (39.9), eZEN 40:04.
 — 2, 18: ePz 41:38, ePN 41.7, en 44.9, eSSZE 45.0, eLEN 46, eLz 47.5. H = 18:37.7, $\Delta = 16.5^\circ$.
 — 2, 19: en 11.2, eLZEN 20, MZEN 27.6.
 — 4, 00: e(L)EN 36, eLz 38.
 — 4, 04: ez 15:16, eLEN 46, eLz 48.
 — 4, 11: iPz, ePEN 40:32k, i(PcP)z 40:44, eSE 49:48, eSN 49:51, i(PS)e, e(PS)n 50:05, e(PS)z 50:08, 12: eLE 04, eLN 06, eLz 09. H = 11:29.2, $\Delta = 71^\circ$.
 — 4, 15: ePz 39:37, iPPz, ePPEN 43:59, ez 48:12, iSKSE 49:24. H = 15:26:32, $\Delta = 104^\circ$. Sehr tiefer Herd.
 — 5, 01: eLZE 15, eLN 17.
 — 6, 17: ePZE 31:44, eZE 35:13, ePKPz 35:27, i!z, iEN 36:28, i!PPZEN 36:43, iz 38:56, in 39:36, iSKSE 42:12, i!SKSE, iSKSN 42:18, i!E 42:39, ie 43:48, ez 45:44, ie 45:47, eSPz, iSPN 46:12, i!SPE 46:17, iPSz, i!PSEN 46:32, eSPPz 47:18, iPPSz 47:36, e!N 52:24, eSSE 52:47, ee 56:24, e!N 56:32, 18: eLE (01), eLN 04, eLz 10, M_{1E} 21:31, (TEW = 22 sec, AEW = 170 μ), MN 23.1, (TNW = 20 sec, ANW = 185 μ), Mz 23—27, M_{2E} 28:59. H = 17:16.9, $\Delta = 117^\circ$. Etwas tief.
 — 10, 20: eLN 30, eLE 32, eLz 39.
 — 11, 10: i!PKPz, iPKPEN 36:16k, ie 39:28, ez 39:31, iPPN 39:41, 11: eLEN (26), eLz (33). H = 10:16:35, $\Delta = 146^\circ$.
 — 13, 04: eLZN 55.
 — 13, 13: eLN 14, eLz (17), eLE (19).
 — 14, 13: eLEN 09, eLz 10.

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- Mai 17, 13: en 36.1, 14: eLN 07, eLZE 10.
 — 17, 18: eLZEN 10.
 — 18, 08: ePZEN 21.0, ePPz 22:46, eSEN 27:56, eLN 34, eLZE 35. H = 08:12.2, $\Delta = 48^\circ$.
 — 18, 09: eLN 12, eLz 15, eLE 17.
 — 19, 03: ePz 22:38, iPZN, ePE 22:41k, ePPz 25:22, en 28.0, iSN 32:06, ie 32:25, iPPSN 32:52, eLE 46, eLZN 48, 04: Mz 00:12. H = 03:11:06, $\Delta = 73^\circ$.
 — 19, 06: eLZEN 39.
 — 19, 16: en 13:03, eLN 37.
 — 20, 08: ez 05.6, ie 15:03, ee 16:46, eLEN 57, eLz 59.
 — 20, 11: ez 01:54, ee 01.9, eLN 32, eLE 35, eLz 38.
 — 24, 01: ez 39:07, ee 47:00, eZEN 48.9, 02: eLN 10, eLE 12, eLz 15.
 — 25, 03: eLN 12, eLE 14, eLz 16.
 — 25, 12: ePz 51:23, 13: eSE 02:16, eSN 02:19, ee 02:38, en 02:42, eLN 24. H = 12:38.3, $\Delta = 91^\circ$.
 — 25, 17: ePz 52:05, e(PcP)z 52:16, 18: eEN (01.8), eLE 19, eLZN 22.
 — 26, 01: iPz, ePN 54:59a, 02: iSN 04:43, iSKSEN 05:07, eLEN 20, eLz 22. H = 01:43:09, $\Delta = 76^\circ$.
 — 29, 03: eLz 36.
 — 31, 05: ez 18.9, ee 25.0, en 29.9, eLN 49, eLZE 53.
 — 31, 07: eLZE 25.
 — 31, 19: iz, en 54:44a.
 — 31, 20: ez 09:53, iPz 09:58a, ePEN 10:02, iPcPz 10:12, eZE 11.3, ee 14:43, iSE 19:11, eSz, iSN 19:14, iScSEN 20:04, eLZE, LN 31, Mze 44—45, MN 45—46. H = 19:58.6, $\Delta = 71^\circ$.
- Jun. 2, 15: eLEN 00, eLz 01.
 — 2, 18: eEN 13:38, eLEN 39, eLz 41.
 — 3, 16: ePZEN 09:19, eSE 12:29, eSN 12.5, eLN 13, eLE 14, eLz 14.7, Mz 16:38, ME 16:49. H = 16:05:18, $\Delta = 17^\circ$.
 — 3, 17: eLZE 57, eLN 59.
 — 3, 18: ez 03:17, eLZE 30, eLN 32.
 — 6, 01: ez 22:11.
 — 6, 06: eLZEN 20.
 — 6, 11: eLZEN 28.
 — 6, 12: eLZEN 20.

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- Jun. 6, 13: eE, IN 20:04, eLN 49, eLE 50.
 — 6, 17: eLEN 49, eLZ 51.
 — 7, 12: ePz 35:19, eSEN 44:31, e(ScS)E 45:24, eLEN 55, eLz 57. $H = 12:23:54$, $\Delta = 70.5^\circ$.
 — 7, 13: ePz 57:17, 14: eS oder SSN 01:04, eLEN 04, eLz 05.
 — 8, 11: iPz 51:53a, ePEN 51:57, ipPz 52:08, iPcPz 52:16, 12: eSz, iSEN 01:17, isSEN 01:35, IPSN 01:51, eLZEN 17. $H = 11:40:36$, $\Delta = 72^\circ$. Etwas tief.
 — 9, 00: ez 58:03, 01: eLN 32, eLZE 36.
 — 9, 01: iPZN 50:27a, ePE 50:31, ipPz 50:36, iPcPz 50:51, eSE, iSN 59:50, 02: eSz 00.0, eLE 13, eLN 14, eLz 16. $H = 01:39.1$, $\Delta = 72^\circ$. Etwas tief.
 — 9, 16: ePz 32:21, eSSz 35:49, eLEN 38, eLz 39. $H = 16:28:20$, $\Delta = 17^\circ$.
 — 10, 18: eZE (45.1), 19: eLN 19, eLZE 24.
 — 13, 18: ePZEN 42:47, eSE 45.8, eSSN 46:00, ee 46:36, eLZN 47, Le 48. $H = 18:39.0$, $\Delta = 16^\circ$.
 — 14, 05: eLEN 01, eLz 04.
 — 15, 17: iPz, iPN 58:37a, ie 58:43, iPcPz 58:46, 18: ePPN 01.4, ez 01:35, iPPPZN 03:03, ie 03:15, i!SE 07:56, eSz 07.9, i!E 08:11, i!PSN 08:20, iSKS oder PPSE 08:27, iScSE 08:42, eSSN 12.5, eLEN (20), eLz (22), 20: W_2E (27), W_2N (30), W_2Z (34). $H = 17:47:12$, $\Delta = 71.5^\circ$.
 — 16, 10: ePZE 05:49, ePN 05.9, ePcPN 09.1, ePcPz 09:07, iSEN 16:19, eScSz 16.4, iScSEN 16:29, eLEN 37, eLz 39. $H = 09:53:11$, $\Delta = 85^\circ$.
 — 16, 16: e(PKP)z 21:41, e(PKP)EN 21.7, ez 21:47, ez 22:11, IN 32:10.
 — 16, 19: iPZN 59:50a, ePE 59.9, 20: ipPZN 00:06, e(PP)z 02.4, iSN 09:14, e(sS)N 09:28, e(sS)E 09:33, eEN 10:15, eLz 18, eLE 21, eLN 23. $H = 19:48:23$, $\Delta = 73.5^\circ$. Etwas tief.
 — 17, 02: eLZEN 24.
 — 17, 14: eLZEN 58.
 — 18, 05: ePZEN 47:28, eSSZE 50.3, iSSN 50:24, eLZEN 52. $H = 05:44.1$, $\Delta = 14^\circ$.
 — 18, 10: ePKPz 23:52, ePPZEN 25.6, ePKSN 27.2, 11: eLEN 04, eLz (10).

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- Jun. 18, 19: eLEN 11, eLz 15.
 — 20, 03: ez 53:09, 05: eLz 07.
 — 21, 08: ePZN 15:16, ePE 15.3, iSE, eSN 18:22, ez 18.5, eLE 20, eLN 20.7, eLz 21. $H = 08:11:23$, $\Delta = 16.5^\circ$.
 — 22, 00: ePz 11.0, eSEN 21:18, eLN 40, eLZE 45. Jun. 21, $H = 23:58.5$, $\Delta = 83^\circ$.
 — 23, 01: eZN 57.7, 02: eZE, IN 00:51.
 — 23, 14: ePZN 05:00, ez 05:31, ee 05.5, ee 09:41, ez 09:50, ePSE 15.0, iPPSN 15:19, eLE 28, eLZN 30, MN 41:57. $H = 13:53.5$, $\Delta = 73^\circ$.
 — 25, 08: iPKPz 40:13, ePKPEN 40:16.
 — 25, 11: Beginn des Bebens beim Galitzin-Wilip während des Bogenwechsels, eEW (03.1), iPPew, ePPNW 04:12, iEW 04:20, ePKSEW 06:57, iPSZE, ePSEWNW 13:39, iPPSZ 14:42, iPPSE, ePPSEW 14:45, eLN 34, eLZE 36, Mz 55:26, 12: W_2ZE 56. $H = 10:44:54$, $\Delta = 111^\circ$.
 — 26, 05: e(P)z 57:20, 06: ez 01:43, i!PPZE 02:01, ePPN 02.0, iz 02:55, ePPPE 03:19, eSKKSE 08.9, e(S)N 09:25, ePSZ 11:24, ePSE 11:28, iPPSZ 12:32, iPPSEN 12:35, ee 13:11, e(SS)E 17.1, eLEN 34, eLz 36, ME 53, 07: W_2ZE 54. $H = 05:42:50$, $\Delta = 110^\circ$.
 — 26, 07: ez 53:54.
 — 27, 08: ez 01:53, eEN 01.9.
 — 28, 05: ePz 49:47, 06: iSEN 00:22, eLE 22, eLz 25. $H = 05:37:04$, $\Delta = 86^\circ$.
 — 29, 03: ePz 40.8, eSEN 51.4, 04: eLN 05, eLz 07, eLE 10. $H = 03:28.1$, $\Delta = 86^\circ$.
 — 29, 23: ez 36:17, eLN 56, eLz 57, eLE 58.
 — 30, 07: ePz 49:04, eSN 58:18, 08: eLZN 15, eLE 18. $H = 07:37:46$, $\Delta = 70.5^\circ$.
 — 30, 22: ePz 54:05, ePcPz 54:16, 23: ee 03:29, eSEN 03:43, eSKSN 04:09, eLEN 22, eLz 24. $H = 22:42:20$, $\Delta = 75^\circ$.
 Jul. 1, 03: iPZN, ePE 11:02a, eZE 15.8, eSZE 20.4, eSN 20:23, ePSZ 20:51, iSKSN 21:04, IN 21:28, eZN (25.9), EN (28.9), ee (29.4), eLE 34, eLz 35, eLN 36, MN 48:16, Mz 48:19, 05: W_2ZN (20), W_2E (25). $H = 02:59:35$, $\Delta = 72^\circ$.

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- Jul. 2, 07: i!PKPz 15:58a, iPKPEN 16:01, ipPKPz 16:59, ipPKPE 17:02, isPKPN 17:12, iz 18:14, ie 19:02, iPPz 19:13, iPPN 19:16, iSKPz 19:28, iPKSE 19:43, in 19:58, ipPPZE 20:06, ie 20:46, ie 21:28, iz 23:23, iz 23:55, ee 27:36, iPPSz 31:52, en 37.0, eSSE 37.4, ePSSE 38.5, esSSE 38.8, en 38.9, en 41.7, eLZN (55). $H = 06:56.9$, $\Delta = 142^\circ$. Tiefer Herd.
- 2, 13: ee 55.9, 14: eLN (14), eLE 24, eLz 26.
- 2, 22: ePz 41:09, eSN 51:29, eSE 51:32, 23: eLN 13, eLE 14, eLz 16. $H = 22:28.7$, $\Delta = 83^\circ$.
- 3, 02: eLZEN 46.
- 3, 02: eLZEN 53.
- 3, 05: ee 53:56, 06: eLZEN 15.
- 3, 18: ePPz 48.8, ePSN 58:20, ePSz 58:23, 19: eLE 18, eLZN 22. $H = 18:29.3$, $\Delta = 113^\circ$.
- 4, 04: eLN 09.
- 5, 04: ez 08:29, eLEN 13, eLz 14.
- 6, 22: eLZEN 49.
- 7, 04: iPz 20:14, ePEN 20:18, e(PcP)e 20:29, ipPz, epPE 21:11, ePPPz 23:41, ePPz 25:42, iSKSE 30:17, eSz, iSE 30:33, iSN 30:37, e(pS)ZE 31:27, isSN 32:15, ee (36.1). L und M sind nicht ausgeprägt. $H = 04:07:53$, $\Delta = 87^\circ$. Tiefer Herd.
- 7, 13: ePz 55:55, 14: eSEN 05:35, eLZEN 28. $H = 13:44:07$, $\Delta = 75.5^\circ$.
- 7, 17: ePz 41:04, iSE, eSN 51:38, 18: eLZEN 14. $H = 17:28:21$, $\Delta = 86^\circ$.
- 9, 19: ePz 10:33, ePEN 10.6, ePPZE 12:26, en 17.1, eSSz 20.5, eSSEN 20.6, ee 21.1, en 22:47, eLN 25, eLZE 26, MN 27:56. $H = 19:02.1$, $\Delta = 46^\circ$.
- 9, 20: ePz 51:52, ePPz 53:40, 21: eSSE 01:52, eSSZN 02.1, en 04.1, eLZEN 08. $H = 20:43:30$, $\Delta = 45.5^\circ$.
- 9, 21: iPz, ePEN 32:18a, ePPE 34.1, ee 35:12, ie 36:42, iSE 39:04, iPSN 39:12, iPSz 39:15, in 39:49, eSSSN 43.4, eLZEN 45, MZE 48—49. $H = 21:23:52$, $\Delta = 46^\circ$.
- 10, 15: ez 27:(42), i(SKS)e 33:15, e(SKS)n 33:19, i(S)EN 34:22, en 41:15, ee 41:19, 16: eLZN (03), eLE (05). Tiefer Herd.
- 11, 15: ee (59.6), ee 59:53, 16: eLE 59.

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- Jul. 12, 01: ePz 01:03, ePE 01.0, epPz 01:36, ePcPz 02:45, ePePE 02.8, ez 03:(13), eSN 07:26, eSE 07:29, eSSEN 10.7, eScSz 11.0. $H = 00:53.1$, $\Delta = 44.5^\circ$.
- 12, 07: ez (02.0), iPPz, ePPEN 02:37, en 10.3, ePSz 12:07, ePSE 12:(10), ePSN 12.1, eSSN 18:16, eLN 37, eLZE 40. $H = 06:43:04$, $\Delta = 113^\circ$.
- 12, 10: eLZN 17.
- 12, 23: eLEN 16, eLz 20.
- 13, 08: eLEN 10, eLz 13.
- 18, 11: eLEN 51, eLz 52.
- 19, 18: en 52.6, ez 52.9, LE 53.
- 20, 08: ePKP₁z 27:49, ePKP₂EN 28.0, esPKP₁ZE 28:23, esPKP₁N 28:29, ePPz 31.5, ePPN 31:35, esPPE 32.0, en 32:10, en 32:49, eSKSPz 41.5, en 41:47, eEN 50.8, 09: eLZEN 20. $H = 08:08.3$, $\Delta = 148^\circ$. Tiefer Herd.
- 21, 17: iPz, ePEN 35:04a, iPcPz 35:19, ePPz 38:15, eSE 45:19, ePPSz 46.6, ePPSE 46:(39), 18: eLN 07, eLZE 09. $H = 17:22:42$, $\Delta = 82^\circ$.
- 22, 05: i!Pz, iPEN 22:40a, ePcPz 22:59, ePPZE 25:23, ePPN 25:30, en 27:24, iz 27:27, ee 27:30, eSEN 32.0, eSz 32.1, ePSN 32:37, iPPSEN 32:57, ez 33:04, ie 33:38, en 37.5, ez 38.0, ie 41:05, eLZEN 45, Mz 58:04. $H = 05:11:15$, $\Delta = 72.5^\circ$. Etwas tief.
- 22, 13: eZN 13:49, en 14:08, eLEN 32, eLz 36.
- 22, 15: ePZE 13:34, ePN 13:38, eSEN 16:46, ez 16.9, eSSN 17:(08), eLN 18, eLz 18.5, eLE 19. $H = 15:09.6$, $\Delta = 17^\circ$.
- 22, 18: ePz 13:27, ePE 13.5, eSEN 20:42, eSz 20:45, eLN 26, eLZE 29. $H = 18:04:26$, $\Delta = 50.5^\circ$.
- 23, 01: ez 14:16, eLN 33, eLZE 36.
- 23, 18: ePz 35:50, eSEN 45:15, isSE, esSN 45:30, 19: eLN (00), eLZE 04. $H = 18:24:18$, $\Delta = 73.5^\circ$. Etwas tief.
- 25, 01: eEN (37.9), ez (38.1).
- 25, 17: ePKPz 46:53, ePKPN 46.9, ez 47:26, 18: eLZN 55, 19: eLE 00.
- 26, 17: iPz 06:37, iPPz 10:42, ePPE 10.6, ipPPz 11:22, ipPPE, epPPN 11:25, iSKSE, i!SKSN 16:54, e(SKKS)ZEN 17:25, iSPZE 19:11, iPPSz, ePPSE 20:25, en 24.4, eEN 25.9, eLN 40, eLZE 44. $H = 16:53.3$, $\Delta = 98^\circ$. Tiefer Herd.
- 27, 00: eLEN 15, eLz 18.

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- Jul. 27, 15: eLN 59, 16: eLz 01.
 — 28, 07: iPKPz, ePKPEN 58:28k, 08: epPKPz 00:32, esPKPz 01:(25), ez 01:55. H = 07:39.7, $\Delta = 149^\circ$. Sehr tiefer Herd.
 — 28, 18: eLN 51, eLZE 54.
 — 29, 13: ePz 42:40, eN 46:29, eN 50:02, eSN 50.8, eSE 50:49, 14: eLZEN 04. H = 13:32:33, $\Delta = 59.5^\circ$.
 — 29, 18: ePz 28:28, eSKSEN 39.0, eLN 56, eLZE 58. H = 18:15:34, $\Delta = 88.5^\circ$.
 — 29/30, 23: ePKPz 37:34, ePKPN 37.6, ePPz 40:48, ePKSE 41:16, 00: eLZEN 26. H = 23:18.0, $\Delta = 143^\circ$.
 — 30, 06: ez 22:(40).
 — 30, 06: ez (40.6), e(S)E 49:49, 07: eLE 09, eLN 12, eLz 14.
 — 30, 07: ez 09.9.
 — 31, 00: eZE 02:49, eN 02.9, eE 08:13, eN 08:17, eEN 09:59, eLEN 35, eLz 38.
 — 31, 23: eLZEN 56.
 Aug. 1, 00: iPKP₁z 49:51, ePKP₁E 49.9, ePKP₂N 50:02, ez 50:20, ez 50:32, 01: eLN 49, eLz 56, 02: eLE 00.
 — 1, 04: eLN 24, eLZE 25.
 — 2, 09: ez 04:27, 10: eLN 04, eLz 09.
 — 2, 17: iPKPz 39:38, ePKPEN 39:41, eEN 40:24, e(PKS)E (43.3), e(PKS)z 43.4, 18: (eL)EN 10, (eL)z 16, eLZEN 30.
 — 3, 14: ez 37:08.
 — 4, 14: ez 15:41.
 — 6, 09: ez 12:15, eLZEN 40.
 — 6, 19: ez, eLEN 15, (M)z 21.7, MN 22.9, Mz 25.6.
 — 6, 20: ez 54:16, 21: eLEN 25, eLz 27.
 — 8, 18: ez 50:57.
 — 9, 07: iPZN 44:44k, i!(PP)z 44:48, i(PP)EN 44:50, iPPPPN 45:14, iz 45:19, eE 45:22, iSE 47:31, i!SSZEN 47:48, ize 48:30, eLN 49, LZE 49.6, MZNW 51.7 (TNW = 10 sec, ANW = 265 μ). H = 07:41:08, $\Delta = 15^\circ$.
 — 9, 15: eE, eLN 31.
 — 11, 03: i!PZEN 36:04k, iPPN 36:17, i!SSE 39:06, iSSz 39:09, i!SSN 39:11, LZ 41.3, MEW 41.7 (T = 9 sec, A = 220 μ), MNW 43.2 (T = 13 sec, A = 770 μ). H = 03:32.5, $\Delta = 15^\circ$.

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- Aug. 11, 06: eLE 04.
 — 11, 12: ePZN 47:04, eS oder SSE, iS oder SSN 50:01, eLEN 52, eLz 52.4.
 — 11, 13: eE 18.2, eLz, LEN 20.
 — 11, 13: eLE 54, eLZN 55.
 — 12, 01: eLN 54, eLZE 55.
 — 12, 06: ePz 11:43, ePN 11:46, ePE 11.8, eSE, iSN 14:39, eLEN 16, eLz 16.7. H = 06:08.0, $\Delta = 15\frac{3}{4}^\circ$.
 — 12, 09: iPZEN 27:31a, iz 27:32k, i!PPE 27:39, i!SSZE 30:36; EWNW (33) Nadeln abgefallen. H = 09:23:56, $\Delta = 15^\circ$.
 — 12, 11: ePz 37:28, ePN 37.5, eSSz, iSSEN 40:30, eLZEN 42, Mz 44.4, MN 44:26. H = 11:33:57, $\Delta = 14\frac{3}{4}^\circ$.
 — 12, 12: iPZN 09:02k, i!(PP)ZEN 09:08, iPPPz 09:20, i!SSE 12:12, iSSz, i!SSN 12:17, LEN 14, LZ 14.4, Mz 16.4. H = 12:05:20, $\Delta = 15.5^\circ$.
 — 12, 13: ePz 43:05, ePN 43:08, eSSE, iSSN 46:05, eSSz 46:08, eLEN 48, LZ 49, MZN 50:05. H = 13:39:37, $\Delta = 14.5^\circ$.
 — 12, 14: iPz, ePEN 12:21a, iSSz, i!SSEN 15:22, iz 16:04, LZEN 17. H = 14:08:54, $\Delta = 14.5^\circ$.
 — 12, 16: ePZE 12:15, ePN 12:(20), eS oder SSEN 15:16, eLEN 17, eLz 18.
 — 12, 17: iz (13.5) keine Zeitmarken, 18: eLN 11, eLE 17, LZ 23.
 — 12, 19: eLEN 55, eLz 56.
 — 12, 22: ePZN 21:19, eSSN 24:31, eLEN 27, LZ 28. H = 22:17:38, $\Delta = 15.5^\circ$.
 — 12, 23: eLN 11, eLE 14, eLz 17.
 — 13, 01: eLEN 57, eLz 58.
 — 13, 03: ePz 25:48, eEN 25.9, eSSEN 28:55, eLz, LEN 31. H = 03:22:14, $\Delta = 15^\circ$.
 — 13, 05: eLEN 01, eLz 04.
 — 13, 06: eLz, LEN 10.
 — 13, 06: eLZN 47.
 — 13, 09: ePKP₁ZN 42:48, i!PKP₂ZEN 42:52a, iz 42:57, epPKPz 43:21, ePPZN 46:12, ePPPN 49.6, eSPPN 58.6, 10: eLZEN (33). H = 09:23.4, $\Delta = 145^\circ$. Tiefer Herd.
 — 13, 10: eZN 20:32, eLEN 25, eLz 26, MN 27:32, Mz 27:35.
 — 13, 14: ePz (47.2), eSSE 50:21, iSSN 50:24, eLEN 52, eLz 53. H = 14:43.5, $\Delta = 15.5^\circ$.
 — 13, 20: eLEN 18.
 — 14, 01: eLEN 32, LZ 34.
 — 14, 21: LEN 46.

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- Aug. 14, 22: e(P)z 34:05, e(S)EN 42:24, ee 49.9, eLZEN (57).
 — 16, 03: ee 33:21, eLEN 38, eLz 39.
 — 16, 22: eLE 28.
 — 17, 00: eLZEN 33.
 — 17, 02: ePz 16:05, eS oder SSN 19.1, eLZEN 21.
 — 17, 03: ez (32.7), e(PP)z 32:58, e(PP)E 33:01, e(PS)E (42.1),
 04: eLN 09, eLZE 12.
 — 17, 10: eLEN 28.
 — 18, 05: eLEN 04.
 — 18, 18: eLN 48, eLE 50.
 — 18, 22: ee (50.6), en 50:37, eLZEN 52.
 — 19, 01: eLE 02, eLZN 03.
 — 19, 03: eLEN 26, eLz 27.
 — 19, 08: eLEN 09.
 — 19, 19: eLEN 44, eLz 45.
 — 20, 19: ePZN 31.0, eSSEN 34:04, LE, eLZN 36. H = 19:27.4,
 $\Delta = 15^\circ$.
 — 21, 14: eLN 02, eLZE 06.
 — 22, 01: eLZEN 18.
 — 22, 01: eLZEN 29.
 — 23, 07: ePz 28:08, ez 28:24, ePcPz 28:51, ez (32.3), eSe 36:13,
 ee 37:27, eScSe 37:58, eLE 47, eLZN 49. H = 07:18:03,
 $\Delta = 59^\circ$.
 — 24, 02: eLEN 30, eLz 31.
 — 24, 14: eLZE 03, eLN 06.
 — 26, 20: eLZE 09.
 — 27, 19: ee (41.1), en 41:05, en 41:28, eLz, LEN 43.
 — 27, 20: eZE 58:43, 21: en 09:08, eLN 35, eLZE 37.
 — 27, 22: ePz 28:04, ePN 28.1, iSN 37:28. H = 22:16:30, $\Delta = 75^\circ$.
 Tiefer Herd.
 — 28, 00: eLZEN 30.
 — 28, 01: eLZN 39.
 — 28, 20: ePz 42:31, eSSN 45:32, eSSE 45:35, eLEN 47.5, eLz 48.
 H = 20:38.9, $\Delta = 15^\circ$.
 — 29, 02: ePz 08:07, eSz 15.8, iSe 15:49, ePSe 16:04, iPPSN
 16:12, ie 16:24, eLZEN (26). H = 01:58:24, $\Delta = 56^\circ$.
 — 29, 14: ePZN 13.0, iSN 16:23, eSe 16:26, eSSE 16:47, eLEN 17.5,
 eLz 18. H = 14:08:40, $\Delta = 18.5^\circ$.

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- Aug. 31, 08: iPz, iPN 04:03a, ePe 04:06, eSe, iSN 13:17, isSEN
 13:36, eLZEN 28. H = 07:52:47, $\Delta = 71^\circ$. Etwas tief.
 — 31, 17: ez 21:28, eLEN 48, eLz 52.
 Spt. 1, 19: eLE 38, eLZN 39.
 — 1, 20: ez 14:05, eLZEN 19.
 — 1, 23: eLN 06, eLZE 12.
 — 2, 00: ePz 41:38, ee 42:58, iSe, eSN 46:20, eSz 46:26, ee
 46:39, eSSEN 47:23, eLN 50.5, eLZE 52.
 — 4, 02: eLz 38.
 — 4, 07: iPZN 34:32a, iPe 34:35, ipP oder PcPZE 34:50, iPP
 37:(11), ePPN 37:15, ePPPN 39.0, iPPPZE 39:07, eSz,
 i!SEN 43:57, esS oder SKSZ, isS oder SKSE 44:23,
 i!PSN 44:34, isSKS oder PPSE 44:53, ilsSKS oder
 PPSN 44:56, ie 45:10, eZN (49.8), en 52.5, ez 52.7,
 ie 52:52, eLZEN 59, 08: Mz 11:12, Mn 11:37.
 H = 07:23:05, $\Delta = 73.5^\circ$. Etwas tief.
 — 4, 14: ez 26:30, ie 36:26, eLZN 59, 15: eLE 02.
 — 5, 01: ePZE 12:26, iSEN 16:04, ez 16:11, eLN 18, eLZE 19.
 H = 01:07:48, $\Delta = 20^\circ$.
 — 5, 08: eLEN 50, eLz 51.
 — 5, 14: ePZN 22:30, ePe 22:35, eSSz, iSSEN 25:41, eLN 27,
 eLE 27.4, eLz 28. H = 14:18:49, $\Delta = 15.5^\circ$.
 — 5, 19: iPz, ePEN 09:42a, eSN 19.1, ee (19.4), e(PPS)z 20.1,
 e(PPS)EN 20:04, eLE 33, eLZN 35.
 — 5, 23: eLN 17, eLZE 19.
 — 6, 01: eLZEN 57.
 — 7, 04: iPZE 03:04k, ilZE, in 03:07a, in 03:15, iPPz 03:19, ie
 03:23, in 05:51, iSe, i!SN 06:31, ilZE 06:36, eLZEN 08,
 Me 13:04. H = 03:58:38, $\Delta = 19^\circ$.
 — 7, 07: eLEN 41.
 — 10, 04: iPz, iPEN 11:00a, i!N 11:07, i!SN 15:04, iz 15:07,
 ie 15:11, i!SSz 15:41, eLEN 18, eLz 19, Me 21:57,
 Mz 22:02. H = 04:05:58, $\Delta = 22.5^\circ$.
 — 14, 00: iPKPz, ePKPEN 46:09a, 01: eLE 30, eLN 32, eLz 37.
 — 14, 09: ez (09.9), eLN 38, eLE 40, eLz 47.
 — 14, 11: eLEN 06, eLz 10.
 — 14, 12: eLZEN 01.

1953

- Spt. 14, 15: Beginn des Bebens in der Stundenlücke, ez, iLEN 02:52, eLEN 04, eLZ 05.4, ME 05:26, MZN 06:53, (TNW = 10 sec, ANW = 30 μ).
- 14, 16: en 20:38, eLE 22.6, eLZN 23.
- 15, 11: ePz 41.5, eSSZN 44.9, eLE 46.6, MZN 48.5.
- 16, 02: ez 08:27, 03: eLZEN 03.
- 16, 12: eLEN 12, LZ 14.
- 17, 21: iPKPz, iPKPN 31:30k, ePKPE 31:33, iz 32:03, 22: eLN 29, eLZE 35.
- 18, 17: eLEN 34, eLZ 35.
- 20, 19: eLZN 44, eLE 49.
- 23, 02: iPz, ePEN 26:03a, epPN 26:32, ez 28:40, ePPN 28.9, ez 29:02, eZEN 30.9, ez 32:52, eSz 35:17, eSN 35:20, eSP oder SKSE 35:52, esS oder PSz 35:58, ez 36:13, 25 iPPSe 36:22, i(PPS)_N 36:28, i(PPS)_Z 36:31, eZN 40.9, eZN 41.4, ez 44.1, in 44:05, ee 44.6, eLZEN 50, 03: Mz 02:36, MEN 02:40, (TNW = 18 sec, ANW = 70 μ). MsB. H = 02:14.7, $\Delta = 72.5^\circ$. Tiefer Herd.
- 25, 03: ez 15:45.
- 25, 12: ee 15:41, eLEN 41, eLz 46.
- 25, 13: ePz 54.0, ePPz 57.5, 14: eSE 04:51, eSSE 06.6, eLN 26, eLZE 29.
- 25, 17: eLEN 29, eLz 30.
- 26, 01: iPz, ePN 13:58a, ePE 14.0, eSE 23:26, ePPSN 24.3, eLE 38, eLZN 41. H = 01:02:25, $\Delta = 73^\circ$.
- 26, 20: eLZN 39, eLE 41.
- 27, 06: ePz 16:26, iSEN 25:33, e(L)_N 33.1, eLZE 37.
- 28, 13: ez 25:19. MsB.
- 28, 21: ee 49:30, in 49:41, ie 49:44, e(L)_{ZEN} 50. MsB.
- 29, 01: iPKP_{1z} 56:09a, ePKP_{2E} 56.9, iPKP_{2z} 56:57, iPKP_{2N} 57:01, ipPKP_{1z} 57:28, ipPKP_{2z} 58:12, 02: iPPz 00:39, iPPN 00:43, ipPPz 01:52, epPPN 01.9, isPPz, esPPE 02:21, esPPN 02:24, iPPPz 04:26, ee 05.9, iz 06:01, en 06:04, ez 15.5, en 15.9, iz 16:00, ez 17:27, iLN 23:27, en 28.0, ee 28:04, ee 29:46. L und M sind nicht ausgeprägt. MsB. H = 01:36.7, $\Delta = 162^\circ$. Tiefer Herd.
- 30, 05: en 18:35, ee 19:12, ee 19:17.
- 30, 23: eZE (20.8), iSKSN 28:06, iSEN 28:22, iPSen 29:25, ez 31:47, eLEN 42, eLz 44, MN 52:22, ME 56:41, MN 57:03. H = 23:04:41, $\Delta = 88.5^\circ$.



1953

- Okt. 1, 18: ez (30.1), iEN 30:34, ez 30:38, iz 30:47.
- 5, 04: iPz, iPEN 43:01a, iZE 43:06, ePPz 45:37, ePPPz 47:22, e(PPPP)_Z 48.1, eSz 52.2, iSE, iSN 52:10, iPSen 52:33, ePPSz 52:48, e(SeS)_E 53:11, eSSN 56.8, 05: e(SSSS)_{ZN} 01.0, eLZN 07, eLE 09. MsB. H = 04:31:45, $\Delta = 70^\circ$.
- 5, 10: ePz 08:10, e(S)_E 17:18, eLN 36, eLZE 39.
- 5/6, 23: ez (38.1), 00: eLN 12, eLZE 19.
- 6, 21: iPPz, ePPE 58:38, 22: ez 08.5, i(PS)_{EN} 08:34, ez, ie 10:12, en 10:23, eSSen 15.1, eSSSE 19.5, eLZEN 35, MZE 50:58. H = 21:38.2, $\Delta = 121^\circ$.
- 6, 23: iPKPz 13:19a, ePKPE 13.3.
- 8, 05: eLN 04, eLE 06, eLz 09.
- 8, 10: ePz (31.9), ePPz 32:10, eSN 35:(49), eSSz 36.0, eLZEN 40.
- 8, 16: en 39:16, eLN 52, eLZE 54.
- 8, 19: ePz 20.4, eSEN 27:58, eZEN 32.0, eLN 37, eLZE 39, ME 45:18. H = 19:11.0, $\Delta = 53.5^\circ$.
- 9, 04: eLZEN 13.
- 10, 21: ePz 32:56, ePN 33.0, ePPPz 33:21, iSSN 36:02, iSSE 36:06, iSSSE, eSSSN 36:23, en 36:35, iz 36:38, eLZN, LE 38, Mz 40:06. MsB. H = 21:29.3, $\Delta = 15.5^\circ$.
- 11, 13: iPz, iPN 20:06a, ipPz 20:28, ePPPz 24.7, eSN 29.5, eSE 29.6, ePSz 30.4, iPSN 30:29, eZN 35.0, en(38.2), eZE 38.5, eLZEN 43, Mz 54:15, MN 54:35, 15: W₂Z 29. MsB. H = 13:08.6, $\Delta = 75^\circ$. Tiefer Herd.
- 11, 17: ePz 17:25, ePN 17:28, eSE, iSN 24:56, eZN 29.0, eLN 33, eLZE 37, MN 38—41. MsB. H = 17:08:00, $\Delta = 53.5^\circ$.
- 13, 09: (iz 10:50a), eEN 17:20, en 19.0, eLZE 36, eLN 38, MN 42:08, ME 45:56.
- 13, 09: en 52.4, ee 52.7, ez 53.5.
- 13, 14: eLZEN 20.
- 14, 14: iPz, iPN 58:59a, iPE 59:02, ilpPz 59:27, isPN 59:34, isPz 59:39, 15: iSE, iSN 08:33, iSeS oder SPE 09:07, ilsSN 09:19, isSz 09:22, iPPSN 09:49, eLZEN 24. H = 14:47:22, $\Delta = 76^\circ$. Tiefer Herd.
- 16, 10: eLN 41, eLZE 43. MsB.
- 16, 21: ePz 48:24, ePN 48:27, eSN 51:24, eSSN 51:40, LEN 53.4, eLz 54. MsB. H = 21:44.6, $\Delta = 16^\circ$.
- 17, 21: iPzN, ePE 18:52a, iSN 28:14, ee 28.4, en 29:08, ee 29:13, eLZEN 45, MZN 56.4. MsB. H = 21:07:25, $\Delta = 72^\circ$.

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- Okt. 20, 05: eLN 49.4, eLZ 51. MsB.
- 21, 11: ePZN 34:46, ePE 34.8, iSEN 37:42, ez 37:50, iSSN 37:57, eLEN 39, eLZ 40, Mz 41:36, MN 41.6. H = 11:31.0, $\Delta = 15\frac{3}{4}^\circ$.
- 21, 16: ez 33:37, eLEN 39, LZ 40.
- 21, 18: ePZE 43:26, ePN 43:31, iPPz 43:34, iPPEN 43:38, in 44:55, iSSz, iSSEN 46:34, eLZEN 48, ME 49.2, (TEW = 11 sec, AEW = 160 μ), Mz 49.7. H = 18:39:48, $\Delta = 15\frac{1}{4}^\circ$.
- 21, 23: e(P)ZN 47:43, eSSEN 50:44, eLEN 52.3, ME 53.3.
- 22, 13: eLE 42, eLZN 44.
- 24, 05: eLE 08, eLZN 10.
- 24/25, 23: ez 39:40, 00: eLZN 41, eLE 50.
- 25, 01: eLZN 52.
- 25, 08: eLZN 38, eLE 41.
- 27, 03: ez 52:39, 04: eLEN 21, eLz 23. MsB.
- 27, 18: ie 44:15. MsB.
- 28, 02: (eLN 53), eLE 55, eLz 57. MsB.
- 28, 12: eLZN 50. MsB.

- Nov. 1, 19: eLN 00, eLZE 02. Starke MsB.
- 1, 21: ez 07:23, eLEN 40, eLz 42. Starke MsB.
- 3, 22: ez 33:12, eLEN 38.5, eLz 39. MsB.
- 4, 00: (ez 28.0), ez 28:11, eLZN 35. MsB.
- 4, 01: ez (40.5). MsB.
- 4, 04: iPKPz 08:31k, iPPZEN 11:07, iPKSN 11:58, ePKSE 12.0, iz 12:20, eLEN 49, LZ 53, 05: ME 06:28, (TEW = 19 sec, AEW = 125 μ), MZN 09—11, (TNW = 21 sec, ANW = 195 μ). MsB. H = 03:49.1, $\Delta = 135^\circ$.
- 4, 12: ePPz (49.9), ePKSN 50:38, 13: eLZEN 33. MsB.
- 5, 08: ez 29:16. MsB.
- 7, 13: ez 16.1, in 26:42, eLN 52. Starke MsB.
- 8, 14: ez 49.5, eLEN 54, eLz 55. Starke MsB.
- 8, 15: ez 45:12. Starke MsB.
- 9, 17: iPz, iPN, ePE 37:04a, iSE, iLSN 46:25, iSSE 46:43, iSSN 46:46, ePPSz 47:09, en 51.5, 18: eLN 02, eLZE 03, MN 14:42, Mz 14:45. MsB. H = 17:25.7, $\Delta = 72^\circ$. Etwas tief.
- 10, 15: eLN 23, eLZE 24.

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- Nov. 10/11, 23: iPz 51:47a, i!z 51:51k, iEN 51:54, ipPz 52:04, ePPz 54.5, iE, eN 54:53, iz 56:40, iEN 56:42, 00: iLSN 01:09, esSz 01:(39), esSE 01:(42), iz, iLN 02:19, en (06.5), ez (07.3), ee 10.0, eLZE 15, eLN 17, MN 28:47, Mz 29:42. MsB. H = 23:40.3, $\Delta = 73.5^\circ$. Etwas tief.
- 13, 12: eLN 05, eLZE 08. MsB.
- 13, 16: ez 29:31, i(S)N 39:23, i!(s)N 40:08, iE 40:11, e(SP)z 40:(14), 17: eLZN 04. MsB.
- 13, 19: ez 35:06, i(PP)z 37:37, i(PKS)z 38:30, e(PKS)N 38:37, eEN 41:27, 20: eLN (17), eLE (21), eLz (25), Mz 43:55, MN 43—45. MsB.
- 14, 20: iPz 14:59k, en 15:06, ipPz, epPE 15:09, i!SE, iSN 24:20, i!sSE, iSN 24:36, iSPE 24:49, eLZE 41, eLN 43. H = 20:03:34, $\Delta = 72.5^\circ$. Etwas tief.
- 16, 17: ez 37.1. Starke MsB.
- 17, 04: ez 39:12. Starke MsB.
- 17, 13: iPz 42:50a, iE 43:07, iPPz 46:(15), iSKSE 53:19, iSz 53:(30), ePSz 54:25, 14: eLN 09, eLZE 11. Starke MsB. H = 13:30.0, $\Delta = 87.5^\circ$.
- 20, 19: eLEN 22, eLz 23. Starke MsB.
- 20, 21: ez 24:11. Starke MsB.
- 25, 17: ez 55:(33). MsB.
- 25, 18: iPz, ePENEWNW 01:17k, i!z 01:20a, i!PcPEN, iPcPEWNW 01:23, iSz 11:27, i!SENEWNW 11:31, iSSNW 16.9, iSSEW 17:04, eLEWNW 25, LZE (28), MEWNW 38:48 (TEW = 16 sec, AEW = 605 μ , TNW = 14 sec, ANW = 425 μ), MEW 43:11 (T = 17 sec, A = 515 μ), Mz (46.4). MsB. H = 17:48:54, $\Delta = 82^\circ$.
- 26, 00: iPz, ePN 15:57a, e(PcP)ZN 16:12, e(PcP)E 16:15, ePPz 19:08, iSE 26:12, in 26:20, ePSz 26.9, ez 31.1, en 36.6, eLE 43, eLN 46, eLz (50), MEW 58:49 (T = 14 sec, A = 45 μ), MZE 58:54. MsB. H = 00:03:34, $\Delta = 82^\circ$.
- 26, 02: ez 00:12, i(S)E 10:08, eLE 30, eLN 33, eLz (37), Mz 42:50, ME 42:54. MsB.
- 26, 05: eLE 07, eLZN 11.
- 26, 08: iPz, ePE 26:41a, en 26:46, ePPz 29:51, iSE 36:57, iLSN 37:01, iSSN 42:31, in 47:23, eLZEN 55, 09: MZE 10.8, (TEW = 12 sec, AEW = 50 μ), MN 10.9. H = 08:14:13, $\Delta = 83^\circ$.
- 26, 12: eLN (24), eLz 30.

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- Nov. 26, 20: eLN 14, eLZ 16. MsB.
- 27, 12: eLZEN 16. Starke MsB.
- 28, 00: eLN 13, eLZE 17. Starke MsB.
- 28, 20: ePZN 21:19, iSSN 24:34, eLE 26, eLZN 27. Starke MsB.
H = 20:17:30, Δ = 16°.
- 29, 00: eLN 58, 01: eLZE 00, MZE 05.8, MN 06.0. Starke MsB.
- 29, 01: Mz 01.9, MEN 02.6. Starke MsB.
- 29, 04: eLN 53, eLZE 56. Starke MsB.
- 29, 19: eLN 10, eLZ 13. Starke MsB.
- 30, 13: ez 24:39, eLE 29, eLZN 30, Mz 31.1. Starke MsB.

- Dez. 1, 05: iPz 20:42a, i!Pe, iPN 20:45, ipPz 21:40, iz 21:54, isPz 22:06, iPPz 23:50, iSEN 30:35, i!sSN 32:16, eLN (51), eLZE (54). Starke MsB. H = 05:08:48, Δ = 82°. Tiefer Herd.
- 2, 04: ePPz 44:39, eSKSN 50:27, 05: iSSN 00:39, eSSE 00:42, en 04.2, eLN 15, eLZE (22), Mz 41:32. Starke MsB.
H = 04:24.9, Δ = 115°.
- 3, 15: ePz 03:45, ePN 03:48, in 04:12, ie 04:15, eSe, iSN 11.5, eLN 19.4, eLZE 23, MN (28). Starke MsB.
H = 14:54.0, Δ = 56°.
- 4, 08: eLN 14, eLE 16, eLZ 17. MsB.
- 4, 15: iPz 06:24k, iSN 16:00, iSe, i!SN 16:05, eSSN 20.9, en 24.8, ez 24.9, eLZN 28, eLE 29, Mz 41:10, MN 43:24. MsB. H = 14:54:43, Δ = 74.5°.
- 4, 17: eLZ 29. MsB.
- 5, 09: ePz 53:45, ePPz 56.9, 10: eLN 26, eLZE 27. MsB.
H = 09:41.3, Δ = 83°.
- 5, 19: eLN 27. MsB.
- 5, 19: ez 38:04, eLEN 44, LZ 45. MsB.
- 7, 02: ipPz 19:57, iPPZE 23:41, ipPPz, epPPN 24:05, iSKSz, i!SKSEN 30:01, ipSKSEN 30:40, i!SN 30:57, iSPZE 32:39, isSPz 33:17, i!SSN 38:12, iSSz 38:17, eLN (48), eLZ (49), eLE (53), 03: MZE 02—03. MsB. H = 02:05.6, Δ = 103°. Tiefer Herd.
- 7, 14: iPz 23:37k, eLZEN 54. Starke MsB.
- 7, 19: iz 04:00k, iz 04:09, 20: eLZN 07. Starke MsB.
- 8, 02: eLN 57, eLE 59, 03: eLZ 02. Starke MsB.



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- Dez. 12, 17: iPz 44:50a, ie 44:54, in 44:58, ie 48:(08), iz 48:13, i!PPz, i!PPE 48:40, iSKSN 55.5, i!SKSE 55:30, i!SN 56:07, i(PS)z 57:20, ilz 57:49, ie 57.9, 18: en (02.0), ez (07.1), eLE (10), eLN 12, LZ 16, ME 24:37, Mz 24:46, MN 26:55, (TNW = 18 sec, ANW = 100 μ), ME 26:58, (TEW = 19 sec, AEW = 100 μ), Mz 43—44. MsB. H = 17:31:20, Δ = 96°.
- 13, 07: iPz 07:39a, ePN 07:43, iSN 17:05, iSe 17:09, eLE 36, eLZN 39. MsB. H = 06:56:05, Δ = 73°.
- 14, 01: eLZ 35. MsB.
- 14, 07: en 15.5, ez 15.7, e(L)EN 15:39. MsB.
- 14, 11: eLEN 25, eLZ 27. MsB.
- 14, 14: eLEN 27, eLZ 30. MsB.
- 19, 18: eLN 19, eLZ 23. MsB.
- 20, 00: iEN 41:53. MsB.
- 20, 06: en 58.5, 07: eLEN 23, eLZ 25. MsB.
- 20, 09: ez 39:01, 10: eLN 13, eLZ 15, eLE 16, Mz 29. MsB.
- 20, 21: ePcPz 32:48, eSN 43:03, e(PS)N 43:43, 22: eLE 02, eLN 03, eLZ 06. MsB. H = 21:20.3, Δ = 82.5°.
- 21, 04: eLN 57, Mz 58:25. MsB.
- 21, 17: ez 48:04. Starke MsB.
- 22, 18: ez 58:21, iz 58:41, 19: en (09.0), ez 09:(41), eLEN 33, eLZ 38. Starke MsB.
- 24, 02: ePz 45:16, eSe 54:(47), isSe 54:58, 03: eLZEN 14. Starke MsB. H = 02:33.8, Δ = 73°. Etwas tief.
- 24, 23: iPz 32:38a, iPcPz 33:02, ee 33:42, iSEN 42:03, esSz, isSN 42:20, 00: eLZEN 00, ME 06—07. Starke MsB.
H = 23:21:11, Δ = 73°. Etwas tief.
- 25, 02: iPz, ePe, iPN 02:57a, iPcPEN 03:14, eSz, i!Se, iSN 12:19, isSe 12:44, iPPSz 13:11, iEN 13:18, en 17.5, ez 17.9, eLZEN 26, Mz 40:34, MN 46:25. Starke MsB.
H = 01:51:30, Δ = 73°. Etwas tief.
- 26, 13: ePz 24:06, ePcP oder pPz 24:18, ie 33:44, eLN 53, eLE 54, eLZ (58). MsB.
- 28, 02: ePZN 42:27, ePe 42:30, iSSE, eSSN 45:27, en 45:33, eSSSN 45:39, eLZEN 47, ME 48.0, MN 49.3. Starke MsB.
H = 02:38:59, Δ = 14.5°.

Mittlere Konstanten des Horizontalseismographen Wiechert:

	T	V	ε
E	7 sec	325	3.5
N	7 sec	300	3.0

Angenäherte Konstanten der Seismographen Galitzin-Wilip:

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

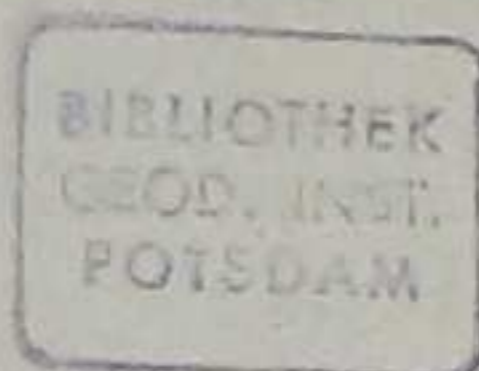
Zur Analyse der Seismogramme wurden benutzt:

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Die nach obigen Tabellen angelegten Laufzeitkurven: Distances en Fonction des Temps X—P, X—PKP, Foyers Superficiels et Foyers Profonds. Institut de Physique du Globe de Paris 1952.

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DIETLINDE ARNOLDT



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