

MONTHLY BULLETIN of REGIONAL and TELESEISMIC EVENTS RECORDED with GRF- and GRSN-STATIONS in GERMANY

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(produced by SZGRF/BGR - ERLANGEN and partly by CLL - Observatory)

MARCH 2004 UPDATED 14.JANUARY.2005

Please note that local events recorded in Germany are part of the "LOCAL BULLETIN".

(Format description at the end of the bulletin)

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source | | |
|-----------------|-------------|---------|------------|-------|-------|------|-------|--------|-----|----|
| 2004/03/01 | 00:35:49.5 | 36.337N | 22.454E | 10.0G | | 4.1 | | SZGRF | | |
| 2004/03/01 | 00:35:58.9 | 37.134N | 22.135E | 14 | 5.5 | | | NEIC | | |
| Southern Greece | | | | | | | | | | |
| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
| GEC2 | e P | Z | 00:39:06.2 | 13.2 | 149.2 | | | | | |
| | e L | Z | 00:44:50.2 | | | 19.4 | 1761 | | 4.2 | |
| FUR | e P | Z | 00:39:09.6 | 13.6 | 140.3 | | | | | |
| | e L | Z | 00:44:19.0 | | | 18.5 | 891 | | 3.9 | |
| WET | e P | Z | 00:39:11.5 | 13.8 | 147.4 | | | | | |
| | e L | Z | 00:45:38.0 | | | 18.3 | 3656 | | 4.5 | |
| GRA1 | e P | Z | 00:39:26.3 | 14.8 | 143.8 | | | | | |
| | e L | Z | 00:46:18.5 | | | 18.9 | 1744 | | 4.2 | |
| BRG | e P | Z | 00:39:28.1 | 14.9 | 153.8 | | | | | |
| | e L | Z | 00:45:17.5 | | | 20.2 | 916 | | 3.9 | |
| STU | e L | Z | 00:45:23.3 | 15.0 | 136.2 | 18.3 | 1143 | | 4.1 | |
| | e P | Z | 00:39:30.7 | 15.1 | 132.9 | | | | | |
| BFO | e S | Z | 00:42:25.6 | | | | | | | |
| | e L | Z | 00:45:36.8 | | | 19.3 | 758 | | 3.9 | |
| | e P | Z | 00:39:36.7 | 15.5 | 146.9 | | | | | |
| | e L | Z | 00:46:39.4 | | | 21.0 | 2281 | | 4.3 | |
| CLL | e P | Z | 00:39:37.7 | 15.6 | 151.9 | 1.2 | 287 | | | |
| | e | | 00:39:42.9 | | | | | | | |
| | e S | E | 00:42:46.1 | | | | | | | |
| | e L | Z | 00:45:24.9 | | | 20.0 | 1118 | | 4.0 | |
| RUE | e ScP | Z | 00:48:13.8 | | | | | | | |
| | e P | Z | 00:39:49.3 | 16.4 | 155.8 | | | | | |
| | e S | E | 00:43:04.0 | | | | | | | |
| CLZ | e L | Z | 00:46:00.0 | | | 19.3 | 1040 | | 4.1 | |
| | e P | Z | 00:39:57.0 | 16.9 | 146.0 | | | | | |

| | | | | | | | | | | | |
|------|-----|---|------------|------|-------|------|------|--|-----|--|--|
| | e S | Z | 00:43:17.2 | | | | | | | | |
| | e L | Z | 00:47:22.3 | | | 21.7 | 1929 | | 4.3 | | |
| WLF | e P | Z | 00:40:00.0 | 17.0 | 131.4 | | | | | | |
| | e S | Z | 00:43:17.2 | | | | | | | | |
| | e L | Z | 00:47:33.3 | | | 21.3 | 805 | | 4.0 | | |
| NRDL | e P | Z | 00:40:03.6 | 17.5 | 146.5 | | | | | | |
| | e S | N | 00:43:28.9 | | | | | | | | |
| | e L | Z | 00:47:42.5 | | | 18.1 | 2893 | | 4.6 | | |
| BUG | e P | Z | 00:40:07.4 | 17.8 | 137.9 | | | | | | |
| | e S | N | 00:43:32.5 | | | | | | | | |
| | e S | Z | 00:43:35.9 | | | | | | | | |
| | e L | Z | 00:47:09.5 | | | 22.0 | 956 | | 4.0 | | |
| IBBN | e S | N | 00:43:41.8 | 18.2 | 140.7 | | | | | | |
| BSEG | e P | Z | 00:40:16.0 | 18.7 | 149.3 | | | | | | |
| | e S | Z | 00:43:49.9 | | | | | | | | |
| | e L | Z | 00:48:19.2 | | | 21.6 | 1323 | | 4.2 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/01 | 06:12: 6.9 | 15.642N | 61.393W | 33.0N | 5.4 | | | SZGRF |
| 2004/03/01 | 06:12:09.2 | 14.967N | 60.832W | 57 | 4.9 | | | NEIC |

Leeward Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 06:22:56.5 | 67.1 | 266.3 | 0.9 | 22 | 5.4 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| 2004/03/01 | 16:07: 9.6 | 24.711S | 165.710E | 33.0N | | | | SZGRF |

New Caledonia region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| GRA1 | e PKPbc | Z 16:26:51.6 | 148.1 | 47.8 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/01 | 17:41:29.4 | 31.625N | 80.032E | 33.0N | 4.6 | | | SZGRF |
| 2004/03/01 | 17:41:18.6 | 30.335N | 80.478E | 61* | 4.6 | | | NEIC |

Xizang

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|----|----|----|
| GRA1 | e P | Z 17:50:44.8 | 54.3 | 83.4 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------|-------------|-----|------|-------|----|----|----|--------|
|------|-------------|-----|------|-------|----|----|----|--------|

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2004/03/01 21:05:40.7 44.780N 147.785E 33.0N 4.9 SZGRF
Kuril Islands, Russia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 21:17:37.6 78.2 29.9 1.1 16 4.9

Date Origin Time Lat Long Depth mb Ms ML Source
2004/03/02 03:47:23.3 10.638N 85.839W 33.0N 5.6 6.3 SZGRF
2004/03/02 03:47:22.4 11.590N 86.821W 28G 5.5 5.9 NEIC
Costa Rica

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 04:00:02.8 86.3 283.6 2.6 139 5.6
e PP Z 04:03:32.1
e S E 04:10:27.2
e SS E 04:16:38.8
e L Z 04:33:25.5 21.7 12773 6.3
CLL e P Z 04:00:06.5 87.1 284.8
e 04:00:29.6
e PP Z 04:03:28.1
e SKSac R 04:10:35.2
e S T 04:10:43.6
e PS E 04:11:57.0
e SS E 04:16:42.2
e SSS E 04:20:14.3
e LR Z 04:28:26.1
e L Z 04:35:31.2 20.0 12174 6.3

Date Origin Time Lat Long Depth mb Ms ML Source
2004/03/02 07:51:49.7 29.964N 51.929E 33.0N 5.2 4.5 SZGRF
2004/03/02 07:51:48.3 28.963N 51.032E 45A 5.0 4.5 NEIC
Southern Iran

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
CLL i P + Z 07:58:47.5 36.1 113.5 1.2 36 5.1
e pP Z 07:58:58.1
e PP Z 08:00:14.5
e S E 08:04:27.1
e L Z 08:16:04.4 18.0 426 4.3
GRC1 e pP Z 07:59:25.7 36.1 109.0
GRA1 e P Z 07:58:50.7 36.5 109.6 1.5 61 5.2
e L Z 08:15:21.7 20.7 842 4.5

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| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| 2004/03/02 | 11:47:43.2 | 18.750S | 179.880E | | | | | GRSN |

Fiji Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-----|---------|----------------|-------|------|------|-------|----|----|----|
| CLL | i PKPbc | - Z 12:07:18.5 | 145.8 | 22.5 | 0.8 | 20 | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/02 | 12:30:34.7 | 39.144N | 96.240E | 33.0N | 5.3 | | | SZGRF |
| 2004/03/02 | 12:30:21.6 | 37.570N | 96.687E | 15* | 5.2 | | | NEIC |

Gansu, China

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|----------------|------|------|------|-------|-----|-----|----|
| RUE | e P | Z 12:40:08.5 | 57.1 | 69.5 | | | | | |
| BRG | e P | Z 12:40:12.0 | 57.6 | 68.7 | | | | | |
| CLL | i P | + Z 12:40:14.5 | 58.0 | 68.3 | 0.9 | 21 | 5.2 | | |
| | e pP | Z 12:40:17.6 | | | | | | | |
| | e S | Z 12:48:19.4 | | | | | | | |
| | e L | Z 13:06:28.2 | | | 19.4 | 388 | | 4.5 | |
| BSEG | e P | Z 12:40:19.1 | 58.5 | 68.1 | 0.8 | 24 | 5.3 | | |
| WERD | e P | Z 12:40:19.9 | 58.7 | 67.4 | | | | | |
| GUNZ | e P | Z 12:40:20.5 | 58.7 | 67.4 | | | | | |
| WET | e P | Z 12:40:21.1 | 58.9 | 67.0 | | | | | |
| MOX | e P | Z 12:40:22.1 | 59.0 | 67.1 | | | | | |
| CLZ | e P | Z 12:40:24.4 | 59.3 | 66.9 | | | | | |
| GRA1 | e P | Z 12:40:26.8 | 59.6 | 66.3 | 0.8 | 37 | 5.5 | | |
| FUR | e P | Z 12:40:31.4 | 60.2 | 65.5 | 1.3 | 71 | 5.5 | | |
| BUG | e P | Z 12:40:37.3 | 61.2 | 64.8 | | | | | |
| STU | e P | Z 12:40:37.2 | 61.2 | 64.6 | | | | | |
| BFO | e P | Z 12:40:41.8 | 61.9 | 63.9 | 0.9 | 13 | 4.8 | | |
| WLF | e P | Z 12:40:47.0 | 62.6 | 63.2 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/02 | 19:38:17.9 | 46.196N | 145.943E | 33.0N | 5.5 | | | SZGRF |
| 2004/03/02 | 19:38:00.0 | 42.893N | 146.297E | 37D | 5.1 | 4.6 | | NEIC |

Sea of Okhotsk

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|----------------|------|------|------|-------|-----|-----|----|
| BSEG | e P | Z 19:49:44.9 | 76.1 | 31.6 | 1.1 | 52 | 5.6 | | |
| RUE | e P | Z 19:49:46.1 | 76.2 | 33.8 | | | | | |
| CLL | i P | + Z 19:49:52.8 | 77.5 | 33.1 | 1.1 | 49 | 5.5 | | |
| | e pP | Z 19:50:04.4 | | | | | | | |
| | e LR | Z 20:17:21.2 | | | | | | | |
| | e L | Z 20:30:54.8 | | | 18.0 | 764 | | 5.1 | |
| BRG | e P | Z 19:49:53.0 | 77.5 | 33.7 | | | | | |

| | | | | | | | | |
|------|-----|---|------------|------|------|-----|----|-----|
| CLZ | e P | Z | 19:49:55.8 | 77.9 | 31.4 | 1.5 | 70 | 5.5 |
| IBBN | e P | Z | 19:49:57.6 | 78.3 | 29.7 | | | |
| WERD | e P | Z | 19:49:58.1 | 78.4 | 32.6 | | | |
| GUNZ | e P | Z | 19:49:58.4 | 78.5 | 32.6 | | | |
| MOX | e P | Z | 19:49:58.6 | 78.5 | 32.1 | 2.0 | 64 | 5.4 |
| BUG | e P | Z | 19:50:02.5 | 79.2 | 29.3 | | | |
| WET | e P | Z | 19:50:03.8 | 79.3 | 32.8 | | | |
| GRA1 | e P | Z | 19:50:04.4 | 79.4 | 31.8 | 1.1 | 45 | 5.5 |
| FUR | e P | Z | 19:50:11.0 | 80.7 | 31.7 | 0.9 | 34 | 5.5 |
| STU | e P | Z | 19:50:11.6 | 80.9 | 30.3 | | | |
| BFO | e P | Z | 19:50:15.3 | 81.6 | 29.7 | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-----------------------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/03 | 00:20:48.0 | 55.750N | 156.120E | 33.0N | 5.2 | | | SZGRF |
| Kamchatka Peninsula, Russia | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 00:32:03.2 | 70.6 | 20.1 | 1.1 | 22 | 5.2 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|----------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/03 | 02:13:27.4 | 39.954N | 16.424E | 10.0G | | | | SZGRF |
| 2004/03/03 | 02:13:28.3 | 39.836N | 15.247E | 17* | 4.4 | | | NEIC |
| Southern Italy | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|----|
| OBKA | e Pn | Z 02:15:05.7 | 6.7 | 175.4 | | | | | |
| KBA | e Pn | Z 02:15:16.0 | 7.4 | 168.5 | | | | | |
| WTTA | e Pn | Z 02:15:25.1 | 7.9 | 159.3 | | | | | |
| DAVA | e Pn | Z 02:15:31.9 | 8.4 | 150.6 | | | | | |
| WET | e Pn | Z 02:15:42.6 | 9.5 | 168.9 | | | | | |
| | e Sn | E 02:17:24.8 | | | | | | | |
| BFO | e Pn | Z 02:15:52.2 | 9.8 | 147.2 | | | | | |
| GRA1 | e Pn | Z 02:15:53.5 | 10.3 | 162.4 | | | | | |
| GUNZ | e Pn | Z 02:16:01.1 | 10.7 | 167.9 | | | | | |
| MOX | e Pn | Z 02:16:04.9 | 11.1 | 165.4 | | | | | |
| | e Sn | E 02:18:06.7 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------------------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/03 | 12:21:35.4 | 15.460N | 94.110W | 35.5 | 5.6 | 4.9 | | SZGRF |
| Near coast of Oaxaca, Mexico | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-----|-------|--------------|------|-------|------|-------|-----|----|----|
| WLF | e P | Z 12:34:07.2 | 84.7 | 287.7 | 1.8 | 120 | 5.8 | | |

| | | | | | | | | | | |
|------|------|---|------------|------|-------|------|-----|-----|-----|--|
| | e pP | Z | 12:34:17.5 | | | | | | | |
| BUG | e P | Z | 12:34:07.6 | 84.8 | 288.4 | 1.4 | 52 | 5.6 | | |
| | e pP | Z | 12:34:18.0 | | | | | | | |
| IBBN | e P | Z | 12:34:07.6 | 84.9 | 288.7 | 1.8 | 164 | 6.0 | | |
| BSEG | e P | Z | 12:34:11.8 | 85.7 | 290.6 | 1.6 | 79 | 5.6 | | |
| BFO | e P | Z | 12:34:15.0 | 86.5 | 289.4 | 2.6 | 113 | 5.5 | | |
| CLZ | e P | Z | 12:34:15.4 | 86.5 | 290.8 | 1.7 | 68 | 5.5 | | |
| MOX | e P | Z | 12:34:21.9 | 87.7 | 291.8 | 1.3 | 14 | 5.1 | | |
| GRA1 | e P | Z | 12:34:21.7 | 87.8 | 291.5 | 1.9 | 118 | 5.9 | | |
| | e L | Z | 13:10:45.9 | | | 21.4 | 515 | | 4.9 | |
| WERD | e P | Z | 12:34:23.7 | 88.2 | 292.3 | 1.9 | 34 | 5.4 | | |
| BRG | e P | Z | 12:34:27.5 | 89.0 | 293.6 | | | | | |
| WET | e P | Z | 12:34:27.9 | 89.0 | 292.8 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/03 | 14:38:36.2 | 38.635N | 41.118E | 33.0N | 4.4 | | | SZGRF |
| 2004/03/03 | 14:38:38.6 | 39.105N | 40.395E | 2 | 4.1 | | | NEIC |

Turkey

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 14:43:47.7 | 23.2 | 106.0 | 1.0 | 12 | 4.4 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|---------|-------|-----|-----|----|--------|
| 2004/03/03 | 20:24:42.4 | 1.550S | 16.000W | 33.0N | 5.1 | 4.4 | | SZGRF |
| 2004/03/03 | 20:24:44.7 | 0.683S | 16.043W | 10A | 5.2 | 5.1 | | NEIC |

North of Ascension Island

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|-----|----|
| BFO | e P | Z 20:34:03.7 | 53.4 | 210.9 | 1.3 | 36 | 5.2 | | |
| WLF | e P | Z 20:34:06.5 | 53.8 | 207.9 | 1.4 | 33 | 5.2 | | |
| FUR | e P | Z 20:34:10.4 | 54.3 | 214.4 | 1.1 | 41 | 5.4 | | |
| GRA1 | e P | Z 20:34:18.3 | 55.5 | 213.8 | 1.1 | 25 | 5.1 | | |
| | e L | Z 20:56:16.0 | | | 22.0 | 335 | | 4.4 | |
| WET | e P | Z 20:34:19.9 | 55.7 | 215.8 | 1.2 | 28 | 5.2 | | |
| MOX | e P | Z 20:34:26.1 | 56.5 | 213.8 | 1.2 | 22 | 5.1 | | |
| GUNZ | e P | Z 20:34:25.7 | 56.5 | 214.7 | 1.1 | 16 | 4.9 | | |
| WERD | e P | Z 20:34:26.0 | 56.6 | 214.7 | 1.5 | 26 | 5.0 | | |
| BRG | e P | Z 20:34:32.8 | 57.5 | 216.3 | 1.4 | 17 | 4.9 | | |
| CLL | i P | Z 20:34:33.4 | 57.5 | 215.1 | 1.2 | 12 | 4.8 | | |
| | e pP | Z 20:34:35.5 | | | | | | | |
| | e | 20:34:39.7 | | | | | | | |
| | e PP | Z 20:36:38.6 | | | | | | | |
| | e S | R 20:42:33.3 | | | | | | | |
| | e L | Z 20:59:20.7 | | | 21.8 | 289 | | 4.3 | |
| BSEG | e P | Z 20:34:42.4 | 58.8 | 211.3 | 1.0 | 24 | 5.2 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/04 | 00:46:24.6 | 19.727S | 172.956W | 35A | 4.8 | | | NEIC |

Tonga Islands region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|--------------|-------|------|------|-------|----|----|----|
| CLL | e PKPdif | Z 01:06:04.6 | 148.1 | 10.7 | | | | | |
| | i PKPbc | Z 01:06:07.3 | | | 1.1 | 22 | | | |
| | e pPKPbc | Z 01:06:16.3 | | | | | | | |
| GRA1 | e PKP | Z 01:06:12.5 | 149.8 | 7.8 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/04 | 17:48:43.6 | 32.433S | 178.608W | 19? | 5.3 | 5.4 | | NEIC |

South of Kermadec Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|----------------|-------|------|------|-------|----|-----|----|
| CLL | e PKPdif | Z 18:08:54.1 | 159.3 | 28.8 | | | | | |
| | i PKPab | - Z 18:09:18.2 | | | 0.9 | 34 | | | |
| | e PP | Z 18:13:19.8 | | | | | | | |
| | e SS | T 18:33:02.2 | | | | | | | |
| | e SSS | T 18:39:21.1 | | | | | | | |
| | e L | Z 19:28:20.2 | | | 20.0 | 574 | | 5.4 | |
| GRA1 | e PKP | Z 18:09:26.6 | 161.3 | 26.6 | | | | | |
| | e L | Z 19:29:29.1 | | | 19.0 | 690 | | 5.5 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/04 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKP | Z 22:02:33.2 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|----------|-------|-----|-----|----|--------|
| 2004/03/05 | 00:49:32.8 | 3.452S | 145.358E | 16G | 5.2 | 5.2 | | NEIC |

Near north coast of New Guinea, Papua New Guinea

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|-------|------|------|-------|----|-----|----|
| GRA1 | e PKP | Z 01:08:24.1 | 119.7 | 55.6 | | | | | |
| | e L | Z 02:00:42.2 | | | 21.9 | 842 | | 5.3 | |

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Thu Apr 23 08:38:25 2020

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| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/05 | 06:00:22.8 | 20.620S | 178.650W | 624.5 | | | | SZGRF |
| 2004/03/05 | 06:00:22.8 | 20.562S | 178.901W | 627D | 5.0 | | | NEIC |

Fiji Islands region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|---|------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z | 06:18:53.6 | 145.9 | 15.5 | | | | | |
| CLL | e PKPbc | Z | 06:18:58.9 | 147.9 | 21.3 | | | | | |
| | e PKPab | Z | 06:19:04.0 | | | | | | | |
| CLZ | e PKPbc | Z | 06:18:59.3 | 147.9 | 16.5 | | | | | |
| | e PKPab | Z | 06:19:03.7 | | | | | | | |
| BRG | e PKPbc | Z | 06:18:59.5 | 148.1 | 23.2 | | | | | |
| | e PKPab | Z | 06:19:05.0 | | | | | | | |
| | e pPKPab | Z | 06:21:21.3 | | | | | | | |
| MOX | e PKPbc | Z | 06:19:01.1 | 148.8 | 19.3 | | | | | |
| | e PKPab | Z | 06:19:08.0 | | | | | | | |
| WERD | e PKPbc | Z | 06:19:01.5 | 148.8 | 20.6 | | | | | |
| | e PKPab | Z | 06:19:08.3 | | | | | | | |
| | e pPKPab | Z | 06:21:24.8 | | | | | | | |
| GUNZ | e PKPbc | Z | 06:19:01.8 | 148.9 | 20.7 | | | | | |
| | e PKPab | Z | 06:19:08.2 | | | | | | | |
| | e pPKPab | Z | 06:21:24.9 | | | | | | | |
| GRA1 | e PKPbc | Z | 06:19:03.6 | 149.8 | 19.1 | | | | | |
| | e PKPab | Z | 06:19:12.6 | | | | | | | |
| WET | e PKPbc | Z | 06:19:03.9 | 149.9 | 22.4 | | | | | |
| | e PKPab | Z | 06:19:13.1 | | | | | | | |
| | e pPKPab | Z | 06:21:28.4 | | | | | | | |
| GEC2 | e PKPbc | Z | 06:19:03.8 | 150.0 | 24.1 | | | | | |
| | e PKPab | Z | 06:19:13.3 | | | | | | | |
| | e pPKPab | Z | 06:21:28.8 | | | | | | | |
| WLF | e pPKPab | Z | 06:21:31.0 | 150.6 | 9.7 | | | | | |
| BFO | e PKPbc | Z | 06:19:07.5 | 151.6 | 14.4 | | | | | |
| | e PKPab | Z | 06:19:19.6 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|----------|-------|-----|----|----|--------|
| 2004/03/05 | 07:05:59.6 | 6.146N | 126.513E | 41* | 5.1 | | | NEIC |

Philippine Islands region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| GRA1 | e Pdiff | Z | 07:19:47.5 | 101.1 | 66.4 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/05 | 09:24:40.7 | 58.002N | 154.161W | 33.0N | 4.9 | | | SZGRF |
| 2004/03/05 | 09:25:01.0 | 60.500N | 151.633W | 59 | 5.1 | | | NEIC |

Alaska Peninsula, United States

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 09:35:59.4 | 68.9 | 351.1 | 1.0 | 9 | 4.9 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/05 | 18:43:25.3 | 24.739N | 119.360E | 33.0N | 4.7 | | | SZGRF |
| 2004/03/05 | 18:42:58.0 | 22.453N | 123.829E | 8* | 4.7 | | | NEIC |

Taiwan region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 18:55:43.3 | 86.5 | 58.7 | 1.2 | 7 | 4.7 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/06 | 00:58:36.0 | 19.910S | 178.400W | 659? | 4.6 | | | NEIC |

Fiji region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|----------------|-------|------|------|-------|----|----|----|
| CLL | i PKPbc | - Z 01:17:08.8 | 147.4 | 20.2 | 0.9 | 20 | | | |
| | i PKPab | Z 01:17:12.8 | | | | | | | |
| GRA1 | e PKP | Z 01:17:13.8 | 149.2 | 17.9 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|----------|-------|-----|-----|----|--------|
| 2004/03/06 | 06:26:41.8 | 5.128S | 152.577E | 46 | 5.5 | 5.4 | | NEIC |

New Britain, Papua New Guinea, region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|-------|------|------|-------|----|-----|----|
| GRA1 | e PKP | Z 06:45:37.6 | 124.8 | 49.3 | | | | | |
| | e L | Z 07:45:19.1 | | | 19.8 | 629 | | 5.3 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/06 | 10:21:32.7 | 12.760N | 92.620E | 33.0N | 5.3 | 5.0 | | SZGRF |
| 2004/03/06 | 10:21:30.1 | 12.947N | 93.096E | 25A | 5.2 | 5.2 | | NEIC |

Andaman Islands, India, region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| BRG | e P | Z 10:33:00.1 | 73.2 | 90.1 | 1.2 | 29 | 5.3 | | |
| RUE | e P | Z 10:33:00.5 | 73.3 | 90.4 | 1.2 | 69 | 5.7 | | |
| GEC2 | e P | Z 10:33:01.0 | 73.3 | 89.3 | 1.2 | 41 | 5.4 | | |
| CLL | i P | Z 10:33:02.9 | 73.8 | 89.5 | 1.3 | 27 | 5.1 | | |
| | e S | T 10:42:35.8 | | | | | | | |
| | e SS | T 10:47:15.1 | | | | | | | |

| | | | | | | | | | | | |
|------|------|---|------------|------|------|------|-----|--|-----|--|--|
| | e LR | Z | 10:59:08.8 | | | | | | | | |
| | e L | Z | 11:10:43.2 | | | 18.0 | 777 | | 5.0 | | |
| WET | e P | Z | 10:33:04.2 | 73.9 | 88.7 | 1.4 | 34 | | 5.2 | | |
| GUNZ | e P | Z | 10:33:06.2 | 74.2 | 88.7 | 1.3 | 29 | | 5.2 | | |
| WERD | e P | Z | 10:33:06.1 | 74.2 | 88.7 | 1.2 | 21 | | 5.0 | | |
| MOX | e P | Z | 10:33:08.6 | 74.6 | 88.2 | 0.9 | 15 | | 5.0 | | |
| GRA1 | e P | Z | 10:33:10.8 | 74.9 | 87.6 | 1.3 | 46 | | 5.3 | | |
| | e L | Z | 11:14:55.5 | | | 18.4 | 655 | | 5.0 | | |
| FUR | e P | Z | 10:33:10.1 | 75.0 | 87.3 | 1.2 | 34 | | 5.2 | | |
| BSEG | e P | Z | 10:33:12.8 | 75.3 | 88.1 | 1.2 | 43 | | 5.3 | | |
| CLZ | e P | Z | 10:33:12.9 | 75.4 | 87.5 | 1.2 | 37 | | 5.3 | | |
| BFO | e P | Z | 10:33:21.0 | 76.9 | 85.1 | 1.5 | 14 | | 4.9 | | |
| BUG | e P | Z | 10:33:23.9 | 77.3 | 85.0 | 1.6 | 65 | | 5.5 | | |
| WLF | e P | Z | 10:33:29.4 | 78.2 | 83.8 | 1.7 | 59 | | 5.4 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/06 | 11:54:34.0 | 32.238N | 93.143E | 33.0N | 4.8 | | | SZGRF |
| 2004/03/06 | 11:54:41.7 | 33.294N | 91.991E | 24* | 5.1 | 4.5 | | NEIC |

Xizang

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|-----|----|
| CLL | e P | Z 12:04:33.7 | 58.3 | 75.1 | 1.6 | 21 | 4.9 | | |
| | e PcP | Z 12:05:25.8 | | | | | | | |
| | e SS | Z 12:17:09.2 | | | | | | | |
| | e LR | Z 12:23:22.7 | | | | | | | |
| | e L | Z 12:33:46.3 | | | 18.0 | 422 | | 4.6 | |
| GRA1 | e P | Z 12:04:45.0 | 59.6 | 73.0 | 0.8 | 12 | 4.8 | | |
| | e PP | Z 12:07:00.8 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/06 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKP | Z 20:53:26.6 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/07 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|--------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKP | Z 01:28:18.2 | | | | | | | |
| | e pPKP | Z 01:30:13.5 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|--------|-------|-----|-----|----|--------|
| 2004/03/07 | 06:37:43.8 | 33.877N | 4.014W | 10.0G | | 4.1 | | SZGRF |
| 2004/03/07 | 06:37:52.2 | 35.036N | 4.022W | 0G | 4.8 | 4.7 | | NEIC |

Morocco

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|-----|----|
| BFO | e P | Z 06:41:42.6 | 16.1 | 219.1 | | | | | |
| WLF | e P | Z 06:41:44.8 | 16.4 | 210.8 | | | | | |
| GRA1 | e P | Z 06:42:09.0 | 18.4 | 223.0 | | | | | |
| | e L | Z 06:49:52.1 | | | 18.2 | 900 | | 4.1 | |
| WET | e P | Z 06:42:13.1 | 18.8 | 227.6 | | | | | |
| GEC2 | e P | Z 06:42:14.4 | 19.0 | 230.0 | | | | | |
| TANN | e P | Z 06:42:20.7 | 19.5 | 224.2 | | | | | |
| CLZ | e P | Z 06:42:24.9 | 19.7 | 217.1 | | | | | |
| CLL | e P | Z 06:42:30.6 | 20.4 | 223.5 | | | | | |
| BRG | e P | Z 06:42:31.5 | 20.5 | 226.2 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/07 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKP | Z 07:30:53.5 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/07 | 11:08:01.5 | 32.444S | 178.212W | 7G | 5.5 | 5.9 | | NEIC |

South of Kermadec Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|--------------|-------|------|------|-------|----|-----|----|
| CLL | e PKPdf | Z 11:28:00.3 | 159.4 | 27.9 | | | | | |
| | e PKPdif | Z 11:28:16.9 | | | | | | | |
| | e PKPab | Z 11:28:38.6 | | | 1.2 | 109 | | | |
| | e | 11:28:49.9 | | | | | | | |
| | e PP | Z 11:32:16.7 | | | | | | | |
| | e PPP | Z 11:35:58.9 | | | | | | | |
| | e SKKSac | R 11:39:08.6 | | | | | | | |
| | e SKSP | Z 11:42:39.8 | | | | | | | |
| | e PPS | R 11:45:50.6 | | | | | | | |
| | e SS | T 11:52:26.5 | | | | | | | |
| | e SSS | T 11:58:36.5 | | | | | | | |
| | e L | Z 12:48:11.7 | | | 20.0 | 1818 | | 5.9 | |
| GRA1 | e PKP | Z 11:28:46.8 | 161.4 | 25.7 | | | | | |
| | e PP | Z 11:32:33.8 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/07 | 11:19:52.8 | 32.421S | 178.072W | 10G | 5.3 | 6.0 | | NEIC |

South of Kermadec Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|--------------|-------|------|------|-------|-----|----|----|
| CLL | e PKPdif | Z 11:40:08.2 | 159.4 | 27.6 | | | | | |
| | e PKPab | Z 11:40:29.6 | | | | | | | |
| GRA1 | e PKPab | Z 11:40:37.1 | 161.4 | 25.4 | 1.8 | 56 | 5.5 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/07 | 13:29:45.5 | 31.633N | 91.201E | 11D | 5.3 | 5.3 | | NEIC |

Eastern Xizang

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-----|-------|--------------|------|------|------|-------|-----|-----|----|
| CLL | e P | Z 13:39:45.1 | 58.9 | 77.1 | 1.7 | 36 | 5.1 | | |
| | e S | E 13:47:53.8 | | | | | | | |
| | e SS | E 13:51:46.8 | | | | | | | |
| | e L | Z 14:06:06.4 | | | 20.0 | 2448 | | 5.3 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/07 | 15:04:51.6 | 32.303S | 178.356W | 10G | 5.2 | 5.6 | | NEIC |

South of Kermadec Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|--------------|-------|------|------|-------|----|-----|----|
| CLL | e PKPdif | Z 15:25:05.9 | 159.3 | 28.1 | | | | | |
| | e PKPab | Z 15:25:27.0 | | | | | | | |
| | e PP | Z 15:29:07.5 | | | | | | | |
| | e PPP | Z 15:32:36.9 | | | | | | | |
| | e SKKSac | R 15:36:01.2 | | | | | | | |
| | e SKSP | R 15:39:34.3 | | | | | | | |
| | e PPS | T 15:42:29.1 | | | | | | | |
| | e SS | T 15:49:09.6 | | | | | | | |
| | e SSS | T 15:55:21.8 | | | | | | | |
| | e L | Z 16:35:50.2 | | | 22.0 | 821 | | 5.5 | |
| GRA1 | e PKPab | Z 15:25:35.5 | 161.2 | 25.9 | | | | | |
| | e L | Z 16:43:30.6 | | | 18.7 | 1531 | | 5.9 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/08 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKP | Z 05:55:36.8 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-----------------------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/08 | 09:27:23.0 | 55.487N | 114.933E | 33.0N | 4.7 | | | SZGRF |
| East of Lake Baykal, Russia | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z | 09:37:07.3 | 57.2 | 40.9 | 1.1 | 8 | 4.7 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/08 | 22:49:35.2 | 20.740S | 178.080W | 629.1 | | | | SZGRF |
| 2004/03/08 | 22:49:35.1 | 20.773S | 179.045W | 625G | 4.9 | | | NEIC |
| Fiji Islands region | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|-----|------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z | 23:08:06.3 | 146.1 | 15.8 | | | | | |
| RUE | e PKPbc | Z | 23:08:08.2 | 146.8 | 22.3 | | | | | |
| IBBN | e PKPbc | Z | 23:08:11.4 | 148.0 | 12.1 | | | | | |
| | e PKPab | Z | 23:08:16.7 | | | | | | | |
| CLL | e PKPdf | Z | 23:08:07.0 | 148.0 | 21.6 | | | | | |
| | i PKPbc | - Z | 23:08:11.4 | | | 0.7 | 58 | | | |
| | e PKPab | Z | 23:08:16.7 | | | 0.7 | 35 | | | |
| | e pPKPbc | Z | 23:10:31.2 | | | | | | | |
| CLZ | e PKPbc | Z | 23:08:11.9 | 148.1 | 16.8 | | | | | |
| BRG | e PKPbc | Z | 23:08:12.1 | 148.2 | 23.5 | | | | | |
| | e PKPab | Z | 23:08:17.8 | | | | | | | |
| BUG | e PKPbc | Z | 23:08:13.4 | 148.9 | 11.5 | | | | | |
| | e PKPab | Z | 23:08:20.5 | | | | | | | |
| MOX | e PKPbc | Z | 23:08:13.8 | 149.0 | 19.6 | | | | | |
| | e PKPab | Z | 23:08:20.5 | | | | | | | |
| WERD | e PKPbc | Z | 23:08:14.1 | 149.0 | 20.9 | | | | | |
| | e PKPab | Z | 23:08:21.1 | | | | | | | |
| GUNZ | e PKPbc | Z | 23:08:14.4 | 149.1 | 21.0 | | | | | |
| | e PKPab | Z | 23:08:21.2 | | | | | | | |
| GRA1 | e PKPbc | Z | 23:08:16.1 | 150.0 | 19.4 | | | | | |
| | e PKPab | Z | 23:08:25.1 | | | | | | | |
| WET | e PKPbc | Z | 23:08:16.2 | 150.1 | 22.8 | | | | | |
| | e PKPab | Z | 23:08:25.7 | | | | | | | |
| | e pPKPab | Z | 23:10:41.4 | | | | | | | |
| GEC2 | e PKPbc | Z | 23:08:16.4 | 150.1 | 24.5 | | | | | |
| | e PKPab | Z | 23:08:26.0 | | | | | | | |
| WLF | e PKPbc | Z | 23:08:18.2 | 150.8 | 10.0 | | | | | |
| | e PKPab | Z | 23:08:28.7 | | | | | | | |
| STU | e PKPbc | Z | 23:08:19.0 | 151.2 | 16.2 | | | | | |
| | e PKPab | Z | 23:08:30.1 | | | | | | | |
| FUR | e PKPbc | Z | 23:08:19.2 | 151.4 | 20.5 | | | | | |

| | | | | | | | | | |
|-----|----------|---|------------|-------|------|--|--|--|--|
| | e PKPab | Z | 23:08:31.3 | | | | | | |
| BFO | e PKPbc | Z | 23:08:19.7 | 151.8 | 14.7 | | | | |
| | e PKPab | Z | 23:08:32.3 | | | | | | |
| | e pPKPbc | Z | 23:10:44.0 | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/08 | 23:39: 7.2 | 10.257N | 45.414W | 33.0N | 5.3 | 5.4 | | SZGRF |
| 2004/03/08 | 23:39:10.5 | 10.588N | 43.673W | 10G | 5.2 | 5.4 | | NEIC |

North Atlantic Ocean

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|-----|----|
| GRA1 | e P | Z 23:49:17.3 | 59.6 | 248.8 | 1.0 | 56 | 5.3 | | |
| | e S | N 23:57:33.2 | | | | | | | |
| | e L | Z 00:10:27.7 | | | 21.3 | 2749 | | 5.4 | |
| CLL | e P | Z 23:49:25.7 | 61.2 | 249.6 | 1.6 | 60 | 5.2 | | |
| | e PP | Z 23:51:50.3 | | | | | | | |
| | e S | E 23:57:48.9 | | | | | | | |
| | e SS | E 00:01:43.4 | | | | | | | |
| | e SSS | N 00:04:35.3 | | | | | | | |
| | e LR | Z 00:07:04.6 | | | | | | | |
| | e L | Z 00:10:56.1 | | | 22.0 | 6000 | | 5.7 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/09 | 13:08:07.0 | 65.218S | 179.970W | 10G | 5.2 | 5.7 | | NEIC |

Balleney Islands region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|-------|------|-------|----|-----|----|
| CLL | e PKPdf | Z 13:28:11.7 | 164.5 | 159.2 | | | | | |
| | e PKPab | Z 13:29:07.8 | | | | | | | |
| | e PP | Z 13:32:52.7 | | | | | | | |
| | e PPP | Z 13:36:42.8 | | | | | | | |
| | e PPS | N 13:46:38.9 | | | | | | | |
| | e SS | E 13:53:30.0 | | | | | | | |
| | e SSS | N 13:59:51.5 | | | | | | | |
| | e L | Z 14:42:32.3 | | | 22.0 | 2654 | | 6.1 | |
| GRA1 | e PKPab | Z 13:29:04.4 | 163.4 | 163.4 | | | | | |
| | e L | Z 14:45:04.2 | | | 20.5 | 2674 | | 6.1 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/09 | 18:28: 7.3 | 51.040N | 174.270E | 33.0N | 5.0 | | | SZGRF |
| 2004/03/09 | 18:28:12.3 | 51.727N | 176.415E | 53 | 4.9 | 4.2 | | NEIC |

Near Islands, Aleutian Islands, United States

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BSEG | e P | Z | 18:39:42.9 | 73.7 | 8.9 | 0.9 | 37 | 5.4 | | |
| IBBN | e P | Z | 18:39:53.6 | 75.5 | 7.2 | 0.9 | 56 | 5.7 | | |
| CLZ | e P | Z | 18:39:54.8 | 75.8 | 8.9 | 0.9 | 24 | 5.3 | | |
| CLL | e P | Z | 18:39:55.2 | 76.0 | 10.5 | 0.8 | 8 | 4.9 | | |
| BRG | e P | Z | 18:39:57.1 | 76.3 | 11.1 | 1.0 | 10 | 4.9 | | |
| BUG | e P | Z | 18:39:58.3 | 76.4 | 6.9 | 0.6 | 10 | 5.2 | | |
| MOX | e P | Z | 18:40:00.5 | 76.8 | 9.6 | 0.9 | 9 | 4.9 | | |
| WERD | e P | Z | 18:40:00.6 | 76.9 | 10.0 | 1.4 | 8 | 4.7 | | |
| GUNZ | e P | Z | 18:40:01.4 | 77.0 | 10.0 | 1.5 | 16 | 4.9 | | |
| GRA1 | e P | Z | 18:40:06.3 | 77.8 | 9.3 | 0.8 | 16 | 5.1 | | |
| WET | e P | Z | 18:40:07.9 | 78.2 | 10.3 | 1.2 | 8 | 4.6 | | |
| WLF | e P | Z | 18:40:09.2 | 78.3 | 6.1 | 1.0 | 14 | 4.9 | | |
| GEC2 | e P | Z | 18:40:09.1 | 78.4 | 10.8 | 1.4 | 12 | 4.7 | | |
| STU | e P | Z | 18:40:11.4 | 78.9 | 8.0 | 1.0 | 24 | 5.1 | | |
| BFO | e P | Z | 18:40:14.6 | 79.4 | 7.5 | 1.1 | 12 | 4.7 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/09 | 18:36:15.3 | 52.600N | 157.380E | 33.0N | 5.4 | | | SZGRF |
| 2004/03/09 | 18:36:19.2 | 52.563N | 158.881E | 79 | 5.0 | | | NEIC |

Kamchatka Peninsula, Russia

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BSEG | e P | Z | 18:47:26.6 | 70.3 | 19.7 | 1.1 | 38 | 5.4 | | |
| RUE | e P | Z | 18:47:30.0 | 71.0 | 21.6 | 0.9 | 47 | 5.6 | | |
| CLL | e P | Z | 18:47:37.1 | 72.2 | 21.0 | 0.8 | 37 | 5.6 | | |
| CLZ | e P | Z | 18:47:38.4 | 72.3 | 19.5 | 0.9 | 42 | 5.6 | | |
| IBBN | e P | Z | 18:47:38.7 | 72.4 | 17.9 | 0.9 | 49 | 5.7 | | |
| BRG | e P | Z | 18:47:38.2 | 72.4 | 21.5 | 1.6 | 30 | 5.2 | | |
| MOX | e P | Z | 18:47:43.0 | 73.2 | 20.1 | 1.1 | 25 | 5.2 | | |
| WERD | e P | Z | 18:47:43.2 | 73.2 | 20.5 | 1.1 | 20 | 5.2 | | |
| GUNZ | e P | Z | 18:47:43.8 | 73.3 | 20.5 | 0.9 | 15 | 5.1 | | |
| BUG | e P | Z | 18:47:44.2 | 73.3 | 17.6 | 0.8 | 35 | 5.6 | | |
| GRA1 | e P | Z | 18:47:49.1 | 74.1 | 19.8 | 0.8 | 42 | 5.5 | | |
| WET | e P | Z | 18:47:50.0 | 74.3 | 20.7 | 1.1 | 30 | 5.2 | | |
| GEC2 | e P | Z | 18:47:50.2 | 74.4 | 21.1 | 0.6 | 14 | 5.1 | | |
| STU | e P | Z | 18:47:56.5 | 75.4 | 18.5 | 0.9 | 24 | 5.3 | | |
| FUR | e P | Z | 18:47:57.6 | 75.6 | 19.7 | 1.1 | 37 | 5.4 | | |
| BFO | e P | Z | 18:47:59.7 | 76.0 | 17.9 | 0.9 | 15 | 5.1 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/09 | 22:07:15.7 | 32.549S | 177.984W | 28* | 5.4 | 5.8 | | NEIC |

South of Kermadec Islands

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-----|-------|--|------|------|-----|------|-------|----|----|----|
|-----|-------|--|------|------|-----|------|-------|----|----|----|

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| | | | | | | | | | |
|------|----------|---|------------|-------|------|------|------|--|-----|
| CLL | e PKPdif | Z | 22:27:27.3 | 159.6 | 27.5 | | | | |
| | e PKPab | Z | 22:27:49.7 | | | | | | |
| | e PP | Z | 22:31:28.8 | | | | | | |
| | e SS | E | 22:51:42.7 | | | | | | |
| | e SSS | E | 22:58:04.0 | | | | | | |
| | e LR | Z | 23:16:38.1 | | | | | | |
| | e L | Z | 23:45:49.9 | | | 20.0 | 2686 | | 6.1 |
| GRA1 | e PKP | Z | 22:27:57.8 | 161.5 | 25.2 | | | | |
| | e L | Z | 23:47:59.9 | | | 19.3 | 2363 | | 6.1 |

| | | | | | | | | |
|---------------------------|-------------|---------|----------|-------|-----|-----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2004/03/09 | 22:56:42.6 | 32.223S | 178.343W | 19D | 5.9 | 6.4 | | NEIC |
| South of Kermadec Islands | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|---|------------|-------|------|------|-------|----|-----|----|
| RUE | e PKPab | Z | 23:17:10.4 | 157.9 | 28.2 | | | | | |
| CLL | e PKPdf | Z | 23:16:42.6 | 159.2 | 27.9 | | | | | |
| | e PKPdif | Z | 23:16:49.6 | | | | | | | |
| | i PKPab | Z | 23:17:15.8 | | | 1.6 | 152 | | | |
| | e PP | Z | 23:20:54.8 | | | | | | | |
| | e PPP | Z | 23:24:35.0 | | | | | | | |
| | e | | 23:27:55.0 | | | | | | | |
| | e PPS | Z | 23:34:16.0 | | | | | | | |
| | e SS | E | 23:41:03.0 | | | | | | | |
| | e SSS | E | 23:47:03.0 | | | | | | | |
| | e L | Z | 00:30:58.9 | | | 20.0 | 9101 | | 6.6 | |
| BRG | e PKPab | Z | 23:17:16.4 | 159.3 | 30.6 | | | | | |
| | e | | 23:19:06.4 | | | | | | | |
| CLZ | e PKPab | Z | 23:17:16.9 | 159.4 | 21.3 | | | | | |
| | e PP | Z | 23:20:54.6 | | | | | | | |
| IBBN | e PKPab | Z | 23:17:17.0 | 159.4 | 14.8 | | | | | |
| WERD | e PKPab | Z | 23:17:20.5 | 160.1 | 27.4 | | | | | |
| MOX | e PKPab | Z | 23:17:20.3 | 160.2 | 25.5 | | | | | |
| GUNZ | e PKPab | Z | 23:17:20.9 | 160.2 | 27.6 | | | | | |
| | e | | 23:19:10.8 | | | | | | | |
| BUG | e PKPab | Z | 23:17:21.0 | 160.3 | 14.2 | | | | | |
| GEC2 | e PKPab | Z | 23:17:24.3 | 161.1 | 33.0 | | | | | |
| WET | e PKPab | Z | 23:17:24.7 | 161.1 | 30.6 | | | | | |
| GRA1 | e PKPab | Z | 23:17:24.8 | 161.1 | 25.8 | | | | | |
| WLF | e PKPab | Z | 23:17:29.0 | 162.2 | 12.6 | | | | | |
| FUR | e PKPab | Z | 23:17:30.9 | 162.5 | 28.0 | | | | | |
| | e | | 23:19:21.0 | | | | | | | |
| STU | e PKPab | Z | 23:17:30.1 | 162.5 | 21.7 | | | | | |
| BFO | e PKPab | Z | 23:17:33.0 | 163.1 | 19.8 | | | | | |
| GRA1 | e L | Z | 00:37:26.9 | 161.1 | 25.8 | 18.2 | 9474 | | 6.7 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/10 | 03:25: 6.5 | 36.865N | 145.405E | 33.0N | 5.1 | | | SZGRF |
| Off east coast of Honshu, Japan | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 03:37:36.2 | 84.4 | 35.2 | 1.2 | 17 | 5.1 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/10 | 03:48:36.4 | 32.452S | 178.120W | 10A | 5.3 | 5.7 | | NEIC |
| South of Kermadec Islands | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|--------------|-------|------|------|-------|----|-----|----|
| CLL | e PKPab | Z 04:09:12.8 | 159.5 | 27.6 | 1.8 | 70 | | | |
| | e | 04:09:24.2 | | | | | | | |
| | e PP | Z 04:13:07.8 | | | | | | | |
| | e SKKSac | N 04:19:48.5 | | | | | | | |
| | e SKSP | Z 04:23:15.2 | | | | | | | |
| | e SKKSdf | N 04:24:13.7 | | | | | | | |
| | e PPS | N 04:26:25.7 | | | | | | | |
| | e SS | E 04:32:59.8 | | | | | | | |
| | e SSS | N 04:39:18.6 | | | | | | | |
| | e L | Z 05:26:49.0 | | | 20.0 | 1432 | | 5.8 | |
| BRG | e PKPab | Z 04:09:12.9 | 159.6 | 30.3 | | | | | |
| CLZ | e PKPab | Z 04:09:14.0 | 159.6 | 21.0 | | | | | |
| WERD | e PKPab | Z 04:09:17.4 | 160.4 | 27.1 | | | | | |
| MOX | e PKPab | Z 04:09:17.3 | 160.4 | 25.2 | | | | | |
| GUNZ | e PKPab | Z 04:09:18.1 | 160.5 | 27.3 | | | | | |
| BUG | e PKPab | Z 04:09:17.1 | 160.6 | 13.8 | | | | | |
| GEC2 | e PKPab | Z 04:09:21.5 | 161.4 | 32.8 | | | | | |
| WET | e PKPab | Z 04:09:22.0 | 161.4 | 30.3 | | | | | |
| GRA1 | e PKPab | Z 04:09:22.1 | 161.4 | 25.4 | | | | | |
| | e L | Z 05:31:37.5 | | | 20.0 | 1615 | | 5.9 | |
| BFO | e PKPab | Z 04:09:29.3 | 163.4 | 19.4 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/10 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKP | Z 07:13:23.0 | | | | | | | |

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| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/10 | 08:19:18.6 | 32.796S | 177.689W | 10A | 5.0 | 5.5 | | NEIC |

South of Kermadec Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|-------|------|------|-------|----|-----|----|
| GRA1 | e PKP | Z 08:40:05.2 | 161.9 | 24.7 | | | | | |
| | e L | Z 10:02:30.0 | | | 19.4 | 995 | | 5.7 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/10 | 09:46:47.6 | 35.622N | 72.479E | 33.0N | 5.2 | | | SZGRF |
| 2004/03/10 | 09:47:13.2 | 36.669N | 70.939E | 181* | 4.8 | | | NEIC |

Pakistan

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 09:55:06.6 | 44.2 | 83.6 | 1.0 | 24 | 5.2 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/11 | 01:31:24.5 | 32.115S | 178.050W | 10A | 5.2 | 5.3 | | NEIC |

South of Kermadec Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| RUE | e PKPab | Z 01:51:54.2 | 157.9 | 27.5 | | | | | |
| CLL | e PKP | Z 01:51:59.9 | 159.2 | 27.2 | | | | | |
| BRG | e PKP | Z 01:52:00.7 | 159.3 | 29.8 | | | | | |
| WERD | e PKP | Z 01:52:04.7 | 160.1 | 26.6 | | | | | |
| MOX | e PKP | Z 01:52:03.8 | 160.1 | 24.7 | | | | | |
| GUNZ | e PKP | Z 01:52:04.6 | 160.2 | 26.8 | | | | | |
| GEC2 | e PKP | Z 01:52:08.6 | 161.1 | 32.1 | | | | | |
| WET | e PKP | Z 01:52:09.2 | 161.1 | 29.7 | | | | | |
| GRA1 | e PKP | Z 01:52:08.8 | 161.1 | 24.9 | | | | | |
| WLF | e PKP | Z 01:52:12.1 | 162.2 | 11.7 | | | | | |
| FUR | e PKP | Z 01:52:14.2 | 162.5 | 27.1 | | | | | |
| STU | e PKP | Z 01:52:14.7 | 162.5 | 20.8 | | | | | |
| BFO | e PKP | Z 01:52:16.6 | 163.1 | 18.9 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/11 | 02:15:59.3 | 32.275S | 178.141W | 2? | 5.3 | 5.2 | | NEIC |

Kermadec Islands region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPab | Z 02:36:29.2 | 157.5 | 19.0 | | | | | |
| CLL | e PKPab | Z 02:36:35.7 | 159.3 | 27.5 | | | | | |
| BRG | e PKPab | Z 02:36:36.3 | 159.4 | 30.2 | | | | | |

| | | | | | | |
|------|---|-------|---|------------|-------|------|
| WERD | e | PKPab | Z | 02:36:40.3 | 160.3 | 27.0 |
| MOX | e | PKPab | Z | 02:36:40.2 | 160.3 | 25.1 |
| GUNZ | e | PKPab | Z | 02:36:40.7 | 160.3 | 27.2 |
| GEC2 | e | PKPab | Z | 02:36:44.3 | 161.2 | 32.6 |
| WET | e | PKPab | Z | 02:36:46.0 | 161.2 | 30.1 |
| GRA1 | e | PKPab | Z | 02:36:45.8 | 161.2 | 25.3 |
| WLF | e | PKPab | Z | 02:36:48.2 | 162.3 | 12.0 |
| FUR | e | PKPab | Z | 02:36:50.8 | 162.6 | 27.5 |
| STU | e | PKPab | Z | 02:36:49.5 | 162.6 | 21.2 |
| BFO | e | PKP | Z | 02:36:52.9 | 163.2 | 19.3 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/11 | 02:34:55.4 | 35.449N | 140.883E | 43.7 | 5.9 | | | SZGRF |
| 2004/03/11 | 02:34:59.3 | 36.311N | 140.877E | 42 | 5.2 | | | NEIC |

Near east coast of eastern Honshu, Japan

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 02:47:22.5 | 83.2 | 38.7 | 0.9 | 75 | 5.9 | | |
| | e pP | Z 02:47:35.2 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/11 | 12:55:10.5 | 39.252N | 19.530E | 10.0G | | | | SZGRF |
| 2004/03/11 | 12:55:00.6 | 38.213N | 19.824E | 40 | 4.6 | | | NEIC |

Greece-Albania border region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|----|
| OBKA | e P | Z 12:57:07.2 | 9.2 | 153.0 | | | | | |
| | e S | N 12:58:45.9 | | | | | | | |
| ARSA | e P | Z 12:57:12.7 | 9.6 | 159.2 | | | | | |
| KBA | e P | Z 12:57:21.2 | 10.1 | 149.5 | | | | | |
| | e S | N 12:59:05.4 | | | | | | | |
| MOA | e P | Z 12:57:25.2 | 10.5 | 155.2 | | | | | |
| WTTA | e P | Z 12:57:31.9 | 10.9 | 143.5 | | | | | |
| | e S | N 12:59:26.7 | | | | | | | |
| GEC2 | e P | Z 12:57:39.9 | 11.5 | 155.2 | | | | | |
| | e S | N 12:59:41.6 | | | | | | | |
| MOX | e P | Z 12:58:09.8 | 13.7 | 151.8 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|--------|-------|-----|-----|----|--------|
| 2004/03/12 | 17:21:54.3 | 34.368N | 3.490W | 33.0N | 4.8 | | | SZGRF |
| 2004/03/12 | 17:21:51.8 | 34.935N | 4.041W | 0G | 4.7 | 4.6 | | NEIC |

Morocco

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| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z | 17:26:10.9 | 18.5 | 222.8 | 2.2 | 144 | 4.8 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|---------|-------|-----|-----|----|--------|
| 2004/03/12 | 20:30:49.2 | 5.626N | 33.077W | 33.0N | 5.5 | 4.8 | | SZGRF |

Central Mid-Atlantic Ridge

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| GRA1 | e P | Z | 20:40:36.4 | 57.6 | 235.4 | 1.6 | 78 | 5.5 | | |
| | e L | Z | 21:03:37.2 | | | 18.4 | 664 | | 4.8 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| 2004/03/12 | 22:13:18.8 | 14.906S | 173.517W | 285.6 | | | | SZGRF |

Samoa Islands region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|---|------------|-------|-------|------|-------|----|----|----|
| IBBN | e PKPbc | Z | 22:32:13.3 | 142.6 | 2.0 | | | | | |
| CLZ | e PKPbc | Z | 22:32:14.1 | 142.9 | 6.2 | | | | | |
| CLL | e PKPpre | Z | 22:32:14.1 | 143.2 | | | | | | |
| | e PKPpdf | Z | 22:32:17.7 | | | | | | | |
| BUG | e PKPbc | Z | 22:32:15.9 | 143.5 | 1.3 | | | | | |
| MOX | e PKPbc | Z | 22:32:17.4 | 144.0 | 8.5 | | | | | |
| WERD | e PKPbc | Z | 22:32:18.4 | 144.1 | 9.6 | | | | | |
| GUNZ | e PKPbc | Z | 22:32:18.4 | 144.2 | 9.7 | | | | | |
| GRA1 | e PKPbc | Z | 22:32:21.2 | 145.0 | 8.0 | | | | | |
| | e pPKPbc | Z | 22:33:31.3 | | | | | | | |
| WLF | e PKPbc | Z | 22:32:22.6 | 145.2 | 359.4 | | | | | |
| | e pPKPbc | Z | 22:33:33.2 | | | | | | | |
| WET | e PKPbc | Z | 22:32:22.6 | 145.4 | 10.9 | | | | | |
| GEC2 | e PKPbc | Z | 22:32:22.1 | 145.5 | 12.4 | | | | | |
| STU | e PKPbc | Z | 22:32:23.9 | 146.1 | 4.7 | | | | | |
| FUR | e PKPbc | Z | 22:32:25.3 | 146.5 | 8.4 | | | | | |
| | e pPKPbc | Z | 22:33:36.1 | | | | | | | |
| BFO | e PKPbc | Z | 22:32:25.5 | 146.5 | 3.2 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/12 | 22:44:52.4 | 35.800N | 71.780E | 33.0N | 6.1 | | | SZGRF |

Pakistan

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-----|-------|---|------------|------|------|------|-------|-----|----|----|
| BRG | e P | Z | 22:52:53.4 | 43.4 | 87.1 | 0.7 | 329 | 6.2 | | |
| RUE | e P | Z | 22:52:53.2 | 43.5 | 88.7 | 0.8 | 380 | 6.2 | | |
| | e PP | Z | 22:54:36.4 | | | | | | | |

| | | | | | | | | |
|------|-------|-----|------------|------|------|-----|-----|-----|
| GEC2 | e P | Z | 22:52:55.6 | 43.7 | 84.8 | 0.9 | 93 | 5.5 |
| CLL | i P | + Z | 22:52:57.6 | 44.0 | 86.9 | 0.8 | 197 | 5.9 |
| | e PP | Z | 22:54:42.9 | | | | | |
| | e sPP | Z | 22:55:54.7 | | | | | |
| | e ScP | Z | 22:58:12.3 | | | | | |
| | e SS | Z | 23:02:41.6 | | | | | |
| WET | e P | Z | 22:52:59.8 | 44.2 | 84.6 | 1.6 | 140 | 5.4 |
| | e PcP | Z | 22:54:43.6 | | | | | |
| GUNZ | e P | Z | 22:53:02.0 | 44.5 | 85.4 | 0.9 | 166 | 6.0 |
| WERD | e P | Z | 22:53:01.9 | 44.5 | 85.5 | 0.9 | 153 | 6.0 |
| | e PcP | Z | 22:54:44.5 | | | | | |
| MOX | e P | Z | 22:53:05.3 | 44.9 | 85.2 | 0.8 | 177 | 6.1 |
| GRA1 | e P | Z | 22:53:08.8 | 45.3 | 84.0 | 0.8 | 233 | 6.2 |
| | e PcP | Z | 22:54:47.1 | | | | | |
| | e PP | Z | 22:54:56.0 | | | | | |
| FUR | e P | Z | 22:53:09.2 | 45.4 | 82.5 | 0.7 | 273 | 6.4 |
| | e PcP | Z | 22:54:47.3 | | | | | |
| BSEG | e P | Z | 22:53:10.1 | 45.5 | 87.5 | 0.8 | 367 | 6.5 |
| CLZ | e P | Z | 22:53:10.7 | 45.6 | 85.5 | 0.9 | 225 | 6.2 |
| NRDL | e P | Z | 22:53:11.7 | 45.7 | 85.9 | 0.9 | 260 | 6.3 |
| | e PcP | Z | 22:54:49.0 | | | | | |
| STU | e P | Z | 22:53:19.0 | 46.7 | 81.7 | 0.8 | 206 | 6.3 |
| | e PcP | Z | 22:54:52.2 | | | | | |
| IBBN | e P | Z | 22:53:22.8 | 47.1 | 84.0 | 0.8 | 447 | 6.6 |
| | e PcP | Z | 22:54:54.1 | | | | | |
| | e PP | Z | 22:55:15.6 | | | | | |
| BFO | e P | Z | 22:53:23.4 | 47.3 | 80.8 | 1.3 | 146 | 5.9 |
| BUG | e P | Z | 22:53:25.8 | 47.5 | 82.9 | 1.0 | 253 | 6.3 |
| | e PcP | Z | 22:54:54.6 | | | | | |
| | e PP | Z | 22:55:19.1 | | | | | |
| WLF | e P | Z | 22:53:33.7 | 48.5 | 80.5 | 0.9 | 296 | 6.3 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/13 | 14:02:23.7 | 17.142N | 104.769W | 33.0N | 5.8 | | | SZGRF |
| 2004/03/13 | 14:02:32.6 | 18.191N | 103.221W | 54 | 5.1 | 4.8 | | NEIC |

Off coast of Michoacan, Mexico

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 14:15:32.5 | 90.9 | 300.1 | 2.3 | 88 | 5.8 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/13 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKPdf | Z 23:15:13.5 | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| BFO | e Pn | Z 05:02:51.2 | | | | | | | |
| FUR | e Pn | Z 05:02:29.4 | | | | | | | |
| GEC2 | e Pn | Z 05:02:22.9 | | | | | | | |
| GRA1 | e Pn | Z 05:02:46.1 | | | | | | | |
| MOX | e Pn | Z 05:02:52.6 | | | | | | | |
| STU | e Pn | Z 05:02:48.0 | | | | | | | |
| WET | e Pn | Z 05:02:28.5 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/14 | 14:07:58.4 | 10.330S | 34.050E | 33.0N | 5.2 | | | SZGRF |
| 2004/03/14 | 14:07:55.6 | 10.402S | 34.463E | 10G | 4.6 | | | NEIC |

Malawi

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 14:18:24.2 | 63.5 | 154.3 | 1.1 | 21 | 5.2 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/14 | 15:50:34.6 | 32.271S | 178.459W | 10G | 5.1 | 5.5 | | NEIC |

Fiji Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPab | Z 16:11:02.2 | 157.4 | 19.7 | | | | | |
| RUE | e PKPab | Z 16:11:04.7 | 157.9 | 28.5 | | | | | |
| CLL | e PKPdf | Z 16:10:33.4 | 159.2 | 28.2 | | | | | |
| | i PKPab | Z 16:11:10.0 | | | 0.8 | 26 | | | |
| BRG | e PKPab | Z 16:11:10.3 | 159.3 | 30.9 | | | | | |
| CLZ | e PKPab | Z 16:11:10.5 | 159.4 | 21.6 | | | | | |
| IBBN | e PKPab | Z 16:11:11.0 | 159.5 | 15.1 | | | | | |
| WERD | e PKPab | Z 16:11:14.2 | 160.2 | 27.7 | | | | | |
| MOX | e PKPab | Z 16:11:14.1 | 160.2 | 25.9 | | | | | |
| GUNZ | e PKPab | Z 16:11:14.6 | 160.2 | 27.9 | | | | | |
| GRA1 | e PKPab | Z 16:11:18.6 | 161.1 | 26.1 | | | | | |
| FUR | e PKPab | Z 16:11:24.9 | 162.5 | 28.4 | | | | | |
| STU | e PKPab | Z 16:11:24.4 | 162.5 | 22.0 | | | | | |
| BFO | e PKPab | Z 16:11:26.8 | 163.1 | 20.2 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/14 | 16:30:48.6 | 16.499S | 171.293W | 33.0N | | 5.8 | | SZGRF |
| 2004/03/14 | 16:30:41.9 | 17.251S | 172.333W | 10G | 5.8 | 5.8 | | NEIC |

Samoa Islands region

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| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|-------|------|-------|----|-----|----|
| RUE | e PKPbc | Z | 16:50:16.8 | 144.4 | 10.1 | | | | | |
| NRDL | e PKPbc | Z | 16:50:18.3 | 144.7 | 4.0 | | | | | |
| IBBN | e PKPbc | Z | 16:50:18.3 | 144.9 | 0.1 | | | | | |
| CLZ | e PKPbc | Z | 16:50:19.8 | 145.3 | 4.5 | | | | | |
| CLL | e PKPbc | Z | 16:50:20.8 | 145.7 | 9.1 | | | | | |
| BUG | e PKPbc | Z | 16:50:21.2 | 145.8 | 359.3 | | | | | |
| BRG | e PKPbc | Z | 16:50:22.4 | 146.0 | 10.8 | | | | | |
| MOX | e PKPbc | Z | 16:50:23.2 | 146.5 | 6.8 | | | | | |
| WERD | e PKPbc | Z | 16:50:23.4 | 146.6 | 8.1 | | | | | |
| GUNZ | e PKPbc | Z | 16:50:23.7 | 146.7 | 8.1 | | | | | |
| GRA1 | e PKPbc | Z | 16:50:26.6 | 147.4 | 6.3 | | | | | |
| | e L | Z | 18:00:06.2 | | | 19.4 | 1428 | | 5.8 | |
| WLF | e PKPbc | Z | 16:50:26.9 | 147.6 | 357.3 | | | | | |
| WET | e PKPbc | Z | 16:50:27.6 | 147.8 | 9.4 | | | | | |
| GEC2 | e PKPbc | Z | 16:50:27.9 | 148.0 | 10.9 | | | | | |
| STU | e PKPbc | Z | 16:50:29.3 | 148.5 | 2.8 | | | | | |
| BFO | e PKPbc | Z | 16:50:29.9 | 148.9 | 1.2 | | | | | |
| FUR | e PKPbc | Z | 16:50:29.9 | 148.9 | 6.7 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/14 | 22:38: 6.5 | 39.115N | 142.180E | 33.0N | 5.3 | | | SZGRF |
| 2004/03/14 | 22:38:06.4 | 37.536N | 138.305E | 41 | 4.7 | | | NEIC |

Near east coast of eastern Honshu, Japan

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z | 22:50:19.7 | 81.1 | 39.8 | 0.9 | 24 | 5.3 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/15 | 03:59:56.6 | 35.323N | 141.254E | 33.0N | 5.2 | 4.5 | | SZGRF |
| 2004/03/15 | 03:59:58.0 | 36.236N | 141.749E | 36 | 4.7 | 4.5 | | NEIC |

Near east coast of eastern Honshu, Japan

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|-----|----|
| GRA1 | e P | Z | 04:12:24.9 | 83.6 | 38.1 | 1.0 | 17 | 5.2 | | |
| | e L | Z | 05:24:15.6 | | | 19.9 | 224 | | 4.5 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/15 | 08:22:20.8 | 51.372N | 169.708W | 33.0N | | | | SZGRF |
| 2004/03/15 | 08:22:19.9 | 51.956N | 170.616W | 25* | 4.4 | | | NEIC |

Fox Islands, Aleutian Islands, United States

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-----|-------|--|------|------|-----|------|-------|----|----|----|
|-----|-------|--|------|------|-----|------|-------|----|----|----|

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GRA1 e P Z 08:34:21.5 78.3 1.2 1.6 23

Date Origin Time Lat Long Depth mb Ms ML Source
2004/03/15 13:13:50.4 21.773S 176.745W 177D 4.4 NEIC
Fiji Islands region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 13:33:23.6 151.4 15.6

Date Origin Time Lat Long Depth mb Ms ML Source
2004/03/16

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 02:03:14.7

Date Origin Time Lat Long Depth mb Ms ML Source
2004/03/16 06:09:26.6 32.153S 177.999W 32D 5.1 NEIC
South of Kermadec Islands

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 06:30:06.2 161.2 24.8

Date Origin Time Lat Long Depth mb Ms ML Source
2004/03/16 06:11:33.0 32.560S 177.893W 34D 5.1 NEIC
South of Kermadec Islands

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 06:32:13.6 161.6 25.0
e 06:32:26.1

Date Origin Time Lat Long Depth mb Ms ML Source
2004/03/16

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 13:42:43.0

Date Origin Time Lat Long Depth mb Ms ML Source

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2004/03/16 16:26:56.6
Tonga region

23.928S 175.796W 10A 4.8 4.4 NEIC

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-----|---------|----------------|-------|------|------|-------|----|----|----|
| CLL | i PKPbc | + Z 16:46:52.5 | 151.8 | 17.3 | 0.9 | 17 | | | |
| | e | 16:47:04.6 | | | | | | | |

Date Origin Time
2004/03/16 21:23:35.9
2004/03/16 21:23:19.7
Qinghai, China

| Lat | Long | Depth | mb | Ms | ML | Source |
|---------|---------|-------|-----|-----|----|--------|
| 38.790N | 94.250E | 16.3 | 5.6 | 5.2 | | SZGRF |
| 37.530N | 96.659E | 14D | 5.5 | 4.9 | | NEIC |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|-----|----|
| RUE | e P | Z 21:33:07.2 | 57.1 | 69.6 | 0.7 | 69 | 5.8 | | |
| BRG | e P | Z 21:33:10.7 | 57.6 | 68.7 | 1.6 | 111 | 5.6 | | |
| CLL | e P | Z 21:33:13.1 | 58.0 | 68.4 | 0.8 | 46 | 5.6 | | |
| | e pP | Z 21:33:17.5 | | | | | | | |
| GEC2 | e P | Z 21:33:17.3 | 58.5 | 67.4 | 1.0 | 31 | 5.3 | | |
| BSEG | e P | Z 21:33:17.8 | 58.5 | 68.1 | 0.9 | 60 | 5.6 | | |
| | e pP | Z 21:33:22.4 | | | | | | | |
| WERD | e P | Z 21:33:17.6 | 58.7 | 67.4 | 1.0 | 30 | 5.3 | | |
| GUNZ | e P | Z 21:33:18.9 | 58.7 | 67.4 | 0.9 | 49 | 5.5 | | |
| WET | e P | Z 21:33:19.6 | 58.9 | 67.1 | 1.0 | 32 | 5.3 | | |
| MOX | e P | Z 21:33:21.0 | 59.0 | 67.1 | 1.4 | 55 | 5.4 | | |
| NRDL | e P | Z 21:33:22.5 | 59.2 | 67.2 | 1.2 | 121 | 5.8 | | |
| CLZ | e P | Z 21:33:22.8 | 59.3 | 67.0 | 0.8 | 64 | 5.7 | | |
| GRA1 | e P | Z 21:33:25.6 | 59.6 | 66.4 | 0.8 | 88 | 5.8 | | |
| | e pP | Z 21:33:30.3 | | | | | | | |
| | e PP | Z 21:35:33.3 | | | | | | | |
| | e L | Z 22:00:23.1 | | | 18.3 | 1703 | | 5.2 | |
| FUR | e P | Z 21:33:29.7 | 60.2 | 65.6 | 0.8 | 100 | 5.9 | | |
| | e pP | Z 21:33:34.2 | | | | | | | |
| IBBN | e P | Z 21:33:31.5 | 60.6 | 65.6 | 2.0 | 175 | 5.7 | | |
| BUG | e P | Z 21:33:35.9 | 61.2 | 64.8 | 1.7 | 124 | 5.5 | | |
| STU | e P | Z 21:33:35.9 | 61.2 | 64.7 | 0.9 | 43 | 5.3 | | |
| BFO | e P | Z 21:33:40.4 | 61.9 | 63.9 | 1.6 | 77 | 5.7 | | |
| WLF | e P | Z 21:33:45.7 | 62.6 | 63.3 | 0.9 | 84 | 6.0 | | |

Date Origin Time
2004/03/17 02:02:25.4
2004/03/17 02:02:47.1
South of Fiji Islands

| Lat | Long | Depth | mb | Ms | ML | Source |
|---------|----------|-------|-----|----|----|--------|
| 25.660S | 177.230W | 33.0G | | | | SZGRF |
| 25.306S | 177.661W | 182D | 4.8 | | | NEIC |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z 02:22:17.8 | 150.8 | 14.9 | | | | | |

| | | | | | | | | | |
|------|---|-------|---|------------|-------|------|--|--|--|
| | e | PKPab | Z | 02:22:25.4 | | | | | |
| | e | | | 02:22:30.5 | | | | | |
| RUE | e | PKPbc | Z | 02:22:19.5 | 151.5 | 22.1 | | | |
| | e | PKPab | Z | 02:22:27.9 | | | | | |
| NRDL | e | PKPbc | Z | 02:22:21.1 | 152.2 | 15.2 | | | |
| IBBN | e | PKPbc | Z | 02:22:22.4 | 152.7 | 10.7 | | | |
| | e | PKPab | Z | 02:22:33.5 | | | | | |
| CLL | e | PKPbc | Z | 02:22:22.1 | 152.8 | 21.4 | | | |
| | e | | | 02:22:38.6 | | | | | |
| CLZ | e | PKPbc | Z | 02:22:22.5 | 152.8 | 16.0 | | | |
| BRG | e | PKPbc | Z | 02:22:22.8 | 152.9 | 23.5 | | | |
| | e | PKPab | Z | 02:22:34.7 | | | | | |
| | e | | | 02:22:39.3 | | | | | |
| MOX | e | PKPbc | Z | 02:22:24.2 | 153.7 | 19.2 | | | |
| WERD | e | PKPbc | Z | 02:22:24.5 | 153.7 | 20.7 | | | |
| GUNZ | e | PKPbc | Z | 02:22:24.7 | 153.8 | 20.8 | | | |
| | e | PKPab | Z | 02:22:38.7 | | | | | |
| | e | | | 02:22:43.4 | | | | | |
| GRA1 | e | PKPab | Z | 02:22:42.3 | 154.7 | 19.0 | | | |
| WET | e | PKPab | Z | 02:22:43.0 | 154.8 | 22.8 | | | |
| | e | | | 02:22:47.9 | | | | | |
| GEC2 | e | PKPab | Z | 02:22:42.9 | 154.8 | 24.8 | | | |
| WLF | e | PKPab | Z | 02:22:45.6 | 155.5 | 8.3 | | | |
| FUR | e | PKPab | Z | 02:22:48.3 | 156.1 | 20.3 | | | |
| | e | | | 02:22:53.4 | | | | | |
| BFO | e | PKPab | Z | 02:22:49.6 | 156.5 | 13.7 | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/17 | 03:21:34.9 | 16.530S | 61.830W | 292.0 | 5.5 | | | SZGRF |
| 2004/03/17 | 03:21:07.9 | 21.104S | 65.568W | 290D | 5.7 | | | NEIC |

Central Bolivia

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|---|------------|------|-------|------|-------|-----|----|----|
| WLF | e P | Z | 03:33:56.6 | 94.9 | 242.8 | 1.2 | 83 | 5.9 | | |
| | e pP | Z | 03:35:06.4 | | | | | | | |
| STU | e P | Z | 03:34:02.8 | 96.3 | 244.9 | 0.9 | 19 | 5.3 | | |
| BUG | e P | Z | 03:34:02.7 | 96.3 | 243.7 | 1.2 | 53 | 5.6 | | |
| IBBN | e P | Z | 03:34:06.0 | 97.0 | 244.2 | 1.3 | 102 | 6.0 | | |
| FUR | e P | Z | 03:34:07.8 | 97.3 | 246.3 | 1.2 | 36 | 5.6 | | |
| | e pP | Z | 03:35:17.6 | | | | | | | |
| GRA1 | e P | Z | 03:34:10.4 | 97.9 | 246.5 | | | | | |
| | e pP | Z | 03:35:19.1 | | | | | | | |
| | e PKKPbc | Z | 03:50:46.0 | | | | | | | |
| NRDL | e P | Z | 03:34:12.7 | 98.3 | 246.0 | 1.1 | 19 | 5.3 | | |
| WET | e P | Z | 03:34:13.6 | 98.6 | 247.6 | 1.1 | 16 | 5.4 | | |
| GEC2 | e P | Z | 03:34:15.3 | 99.0 | 248.1 | 1.2 | 11 | 5.2 | | |
| CLL | e Pdiff | Z | 03:34:17.5 | 99.5 | 248.0 | 1.0 | 10 | | | |

| | | |
|----------|---|------------|
| e pP | Z | 03:35:28.3 |
| e SKSac | E | 03:44:31.0 |
| e Sdiff | N | 03:45:27.4 |
| e PS | N | 03:47:25.6 |
| e PKKPbc | Z | 03:50:39.6 |
| e SS | N | 03:52:19.9 |
| e sSS | N | 03:53:57.2 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/17 | 04:55:26.0 | 44.500N | 145.500E | 33.0N | | | | SZGRF |
| 2004/03/17 | 04:55:25.8 | 43.839N | 146.422E | 72D | 5.1 | | | NEIC |

Hokkaido, Japan, region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|----|----|----|
| BSEG | e P | Z 05:07:03.2 | 75.3 | 31.1 | 0.9 | 65 | | | |
| RUE | e P | Z 05:07:03.8 | 75.4 | 33.2 | | | | | |
| NRDL | e P | Z 05:07:10.4 | 76.6 | 30.8 | 0.8 | 28 | | | |
| CLL | e P | Z 05:07:10.4 | 76.7 | 32.6 | 0.9 | 108 | | | |
| BRG | e P | Z 05:07:10.9 | 76.7 | 33.1 | 0.8 | 24 | | | |
| CLZ | e P | Z 05:07:13.4 | 77.1 | 30.9 | 0.6 | 66 | | | |
| IBBN | e P | Z 05:07:15.3 | 77.5 | 29.2 | | | | | |
| WERD | e P | Z 05:07:16.2 | 77.6 | 32.0 | | | | | |
| GUNZ | e P | Z 05:07:16.6 | 77.7 | 32.0 | | | | | |
| MOX | e P | Z 05:07:16.5 | 77.7 | 31.6 | 1.2 | 45 | | | |
| BUG | e P | Z 05:07:20.1 | 78.4 | 28.8 | | | | | |
| GEC2 | e P | Z 05:07:20.9 | 78.5 | 32.7 | 0.7 | 19 | | | |
| WET | e P | Z 05:07:21.6 | 78.5 | 32.2 | 1.0 | 50 | | | |
| GRA1 | e P | Z 05:07:22.2 | 78.6 | 31.2 | 0.8 | 110 | | | |
| FUR | e P | Z 05:07:29.0 | 79.9 | 31.1 | 0.9 | 75 | | | |
| STU | e P | Z 05:07:29.7 | 80.1 | 29.8 | 0.8 | 57 | | | |
| WLF | e P | Z 05:07:31.9 | 80.3 | 27.9 | | | | | |
| BFO | e P | Z 05:07:33.1 | 80.8 | 29.2 | 0.8 | 30 | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/17 | 05:21:18.8 | 36.378N | 23.625E | 10.0G | | 5.5 | | SZGRF |
| 2004/03/17 | 05:21:00.5 | 34.583N | 23.467E | 25D | 5.8 | 5.7 | | NEIC |

Southern Greece

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|----|
| OBKA | e P | Z 05:24:11.8 | 13.7 | 147.4 | | | | | |
| | e S | E 05:26:33.1 | | | | | | | |
| ARSA | e P | Z 05:24:14.8 | 14.0 | 151.9 | | | | | |
| KBA | e P | Z 05:24:24.4 | 14.6 | 145.0 | | | | | |
| | e S | E 05:26:54.3 | | | | | | | |
| MOA | e P | Z 05:24:27.8 | 14.9 | 149.3 | | | | | |

| | | | | | | | | | |
|------|-----|---|------------|------|-------|------|-------|-----|--|
| WTTA | e P | Z | 05:24:37.7 | 15.5 | 140.8 | | | | |
| | e S | E | 05:27:16.5 | | | | | | |
| DAVA | e P | Z | 05:24:49.2 | 16.3 | 136.4 | | | | |
| FUR | e P | Z | 05:24:48.8 | 16.3 | 141.8 | | | | |
| | e L | Z | 05:33:03.1 | | | 18.9 | 28975 | 5.4 | |
| WET | e P | Z | 05:24:48.7 | 16.5 | 147.9 | | | | |
| | e L | Z | 05:32:16.7 | | | 20.5 | 54798 | 5.7 | |
| GRA1 | e P | Z | 05:25:01.8 | 17.6 | 144.7 | | | | |
| | e L | Z | 05:33:10.3 | | | 19.4 | 27508 | 5.5 | |
| STU | e P | Z | 05:25:06.3 | 17.7 | 138.1 | | | | |
| | e L | Z | 05:35:51.2 | | | 20.1 | 9278 | 5.0 | |
| GUNZ | e P | Z | 05:25:05.8 | 17.7 | 148.6 | | | | |
| TANN | e L | Z | 05:33:55.3 | 17.7 | 149.0 | 19.4 | 29715 | 5.5 | |
| WERD | e P | Z | 05:25:06.8 | 17.8 | 148.6 | | | | |
| MOX | e P | Z | 05:25:11.5 | 18.2 | 147.3 | | | | |
| | e L | Z | 05:33:39.8 | | | 18.3 | 43144 | 5.7 | |
| RUE | e P | Z | 05:25:23.1 | 19.2 | 155.1 | | | | |
| WLF | e P | Z | 05:25:29.8 | 19.7 | 133.4 | | | | |
| | e L | Z | 05:34:09.9 | | | 18.6 | 21364 | 5.5 | |
| IBBN | e P | Z | 05:25:43.5 | 21.0 | 141.5 | | | | |
| RGN | e P | Z | 05:25:44.1 | 21.2 | 156.3 | | | | |
| BSEG | e P | Z | 05:25:47.1 | 21.4 | 149.2 | | | | |
| HLG | e P | Z | 05:25:57.5 | 22.4 | 144.6 | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|---------|-------|-----|-----|----|--------|
| 2004/03/17 | 06:40:53.9 | 7.311S | 14.400W | 33.0G | 4.8 | 4.9 | | SZGRF |
| 2004/03/17 | 06:40:57.3 | 7.099S | 13.028W | 10G | 5.1 | 4.8 | | NEIC |

Ascension Island region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|-----|----|
| GRA1 | e P | Z 06:51:06.0 | 60.6 | 207.9 | 1.0 | 16 | 4.8 | | |
| | e L | Z 07:17:11.0 | | | 20.0 | 785 | | 4.9 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/17 | 13:37:42.2 | 30.316S | 178.098W | 57D | 5.2 | | | NEIC |

Kermadec Islands, New Zealand

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|-----|----|
| GRA1 | e PKPab | Z 13:58:15.4 | 159.4 | 23.4 | | | | | |
| | e | 13:58:27.1 | | | | | | | |
| | e L | Z 15:07:11.9 | | | 21.7 | 371 | | 5.2 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------|-------------|-----|------|-------|----|----|----|--------|
|------|-------------|-----|------|-------|----|----|----|--------|

2004/03/17

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKP | Z 20:56:48.3 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/17 | 23:53:14.9 | 36.091N | 121.892W | 33.0N | 5.4 | 4.4 | | SZGRF |
| 2004/03/17 | 23:53:07.0 | 35.735N | 121.075W | 2 | 4.4 | | | NEIC |

Central California, United States

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|-----|----|
| GRA1 | e P | Z 00:05:46.0 | 84.7 | 322.9 | 1.5 | 33 | 5.4 | | |
| | e L | Z 00:56:27.3 | | | 20.0 | 142 | | 4.4 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/18 | 04:55:21.6 | 33.692N | 22.105E | 33.0N | 4.0 | | | SZGRF |
| 2004/03/18 | 04:55:23.4 | 34.327N | 23.295E | 32? | 4.0 | | | NEIC |

Central Mediterranean Sea

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 04:59:28.9 | 17.7 | 145.5 | 1.4 | 16 | 4.0 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|--------|-------|-----|----|----|--------|
| 2004/03/18 | 05:31:42.8 | 37.412S | 9.727W | 33.0N | 5.0 | | | SZGRF |

Tristan da Cunha region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 05:44:34.9 | 89.1 | 196.5 | 1.9 | 18 | 5.0 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/18 | 07:04:47.3 | 44.150N | 143.290E | 44.2 | 5.1 | 5.2 | | SZGRF |
| 2004/03/18 | 07:04:33.8 | 42.300N | 144.536E | 26 | 5.2 | 5.0 | | NEIC |

Hokkaido, Japan, region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| BSEG | e P | Z 07:16:20.7 | 76.1 | 33.1 | 1.0 | 19 | 5.1 | | |
| | e pP | Z 07:16:33.4 | | | | | | | |
| CLL | e P | Z 07:16:27.4 | 77.4 | 34.6 | 0.9 | 24 | 5.3 | | |
| | e pP | Z 07:16:40.4 | | | | | | | |
| BRG | e P | Z 07:16:27.9 | 77.4 | 35.1 | 1.5 | 20 | 5.0 | | |
| CLZ | e P | Z 07:16:30.7 | 77.8 | 32.9 | 1.3 | 32 | 5.3 | | |

| | | | | | | | | | | |
|------|------|---|------------|------|------|-----|------|------|-----|-----|
| | e pP | Z | 07:16:43.4 | | | | | | | |
| IBBN | e P | Z | 07:16:33.3 | 78.3 | 31.1 | 1.6 | | 51 | 5.4 | |
| WERD | e P | Z | 07:16:33.4 | 78.3 | 34.0 | 1.2 | | 12 | 4.9 | |
| GUNZ | e P | Z | 07:16:33.9 | 78.4 | 34.0 | 1.2 | | 18 | 5.1 | |
| MOX | e P | Z | 07:16:33.6 | 78.4 | 33.6 | 1.2 | | 14 | 5.0 | |
| | e pP | Z | 07:16:46.2 | | | | | | | |
| GEC2 | e P | Z | 07:16:37.7 | 79.1 | 34.7 | 1.1 | | 10 | 4.9 | |
| BUG | e P | Z | 07:16:38.0 | 79.2 | 30.7 | 0.6 | | 12 | 5.2 | |
| WET | e P | Z | 07:16:38.7 | 79.2 | 34.2 | 1.1 | | 22 | 5.2 | |
| | e pP | Z | 07:16:51.1 | | | | | | | |
| GRA1 | e P | Z | 07:16:39.4 | 79.3 | 33.2 | 1.1 | | 31 | 5.3 | |
| | e L | Z | 07:54:59.2 | | | | 20.4 | 1199 | | 5.2 |
| FUR | e P | Z | 07:16:46.5 | 80.6 | 33.1 | 1.0 | | 33 | 5.3 | |
| BFO | e P | Z | 07:16:50.4 | 81.5 | 31.2 | 1.6 | | 27 | 4.9 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/18 | 15:14:10.8 | 35.703N | 27.555E | 10.0G | 4.2 | | | SZGRF |
| 2004/03/18 | 15:14:26.1 | 36.075N | 26.441E | 107 | 4.5 | | | NEIC |

Dodecanese Islands, Greece

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GEC2 | e P | Z 15:18:02.3 | 15.8 | 139.1 | 1.1 | 23 | 4.2 | | |
| WET | e P | Z 15:18:10.6 | 16.4 | 137.8 | 1.1 | 20 | 4.2 | | |
| FUR | e P | Z 15:18:10.5 | 16.5 | 131.7 | 0.7 | 45 | 4.7 | | |
| BRG | e P | Z 15:18:21.5 | 17.3 | 144.0 | 0.9 | 9 | 3.9 | | |
| GRA1 | e P | Z 15:18:22.7 | 17.5 | 135.2 | 0.9 | 34 | 4.5 | | |
| GUNZ | e P | Z 15:18:22.9 | 17.5 | 139.2 | 0.8 | 8 | 3.9 | | |
| WERD | e P | Z 15:18:23.6 | 17.6 | 139.3 | 0.9 | 8 | 3.9 | | |
| CLL | e P | Z 15:18:27.1 | 18.0 | 142.6 | 1.3 | 10 | 3.9 | | |
| MOX | e P | Z 15:18:31.0 | 18.1 | 138.1 | 0.8 | 11 | 4.1 | | |
| BFO | e P | Z 15:18:30.7 | 18.1 | 126.0 | 0.8 | 20 | 4.4 | | |
| CLZ | e P | Z 15:18:43.5 | 19.5 | 137.8 | 0.9 | 8 | 3.9 | | |
| BUG | e P | Z 15:19:00.1 | 20.6 | 130.9 | 1.0 | 25 | 4.5 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/18 | 19:25:39.6 | 41.810N | 144.620E | 50.7 | 5.1 | | | SZGRF |
| 2004/03/18 | 19:25:41.8 | 42.126N | 143.897E | 49D | 5.0 | 5.0 | | NEIC |

Hokkaido, Japan, region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| BSEG | e P | Z 19:37:26.2 | 76.0 | 33.6 | 0.9 | 14 | 5.1 | | |
| | e pP | Z 19:37:40.4 | | | | | | | |
| CLL | e P | Z 19:37:32.5 | 77.3 | 35.1 | 0.9 | 30 | 5.4 | | |
| | e pP | Z 19:37:46.8 | | | | | | | |
| BRG | e P | Z 19:37:32.5 | 77.3 | 35.6 | 1.3 | 13 | 4.9 | | |

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| | | | | | | | | |
|------|------|---|------------|------|------|-----|----|-----|
| NRDL | e P | Z | 19:37:33.0 | 77.3 | 33.3 | 1.4 | 18 | 5.0 |
| CLZ | e P | Z | 19:37:36.0 | 77.8 | 33.4 | 1.2 | 35 | 5.3 |
| | e pP | Z | 19:37:50.1 | | | | | |
| IBBN | e P | Z | 19:37:38.3 | 78.2 | 31.7 | 1.3 | 42 | 5.3 |
| WERD | e P | Z | 19:37:38.0 | 78.2 | 34.5 | 1.2 | 12 | 4.8 |
| GUNZ | e P | Z | 19:37:38.1 | 78.3 | 34.5 | 0.8 | 10 | 4.9 |
| MOX | e P | Z | 19:37:38.6 | 78.3 | 34.1 | 1.3 | 19 | 5.0 |
| | e pP | Z | 19:37:53.0 | | | | | |
| GEC2 | e P | Z | 19:37:42.7 | 79.0 | 35.2 | 1.5 | 20 | 4.8 |
| WET | e P | Z | 19:37:43.1 | 79.1 | 34.7 | 1.1 | 24 | 5.0 |
| | e pP | Z | 19:37:57.8 | | | | | |
| BUG | e P | Z | 19:37:42.4 | 79.1 | 31.2 | 0.9 | 15 | 4.9 |
| | e pP | Z | 19:37:57.3 | | | | | |
| GRA1 | e P | Z | 19:37:44.0 | 79.3 | 33.7 | 1.0 | 38 | 5.3 |
| | e pP | Z | 19:37:58.7 | | | | | |
| FUR | e P | Z | 19:37:51.1 | 80.5 | 33.6 | 0.9 | 42 | 5.5 |
| STU | e P | Z | 19:37:51.8 | 80.8 | 32.3 | 0.8 | 19 | 5.3 |
| BFO | e P | Z | 19:37:54.7 | 81.4 | 31.7 | 1.8 | 45 | 5.3 |
| | e pP | Z | 19:38:09.9 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/18 | 19:57:20.0 | 16.110S | 166.960E | 53D | 5.3 | | | NEIC |

Vanuatu Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|-------|------|------|-------|----|----|----|
| GRA1 | e PKP | Z 20:16:41.0 | 141.1 | 38.9 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/18 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e (P) | Z 20:19:44.8 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/18 | 20:04:28.8 | 23.711S | 176.039W | 35A | 5.8 | 6.1 | | NEIC |

South of Fiji Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPdf | Z 20:24:10.2 | 149.4 | 11.5 | | | | | |
| RUE | e PKPdf | Z 20:24:11.7 | 150.3 | 18.4 | | | | | |
| NRDL | e PKPdf | Z 20:24:12.7 | 150.8 | 11.6 | | | | | |
| IBBN | e PKPdf | Z 20:24:13.2 | 151.3 | 7.2 | | | | | |
| CLZ | e PKPdf | Z 20:24:13.6 | 151.4 | 12.3 | | | | | |

| | | | | | | | | | |
|------|---------|---|------------|-------|------|------|------|-----|--|
| CLL | e PKPdf | Z | 20:24:13.5 | 151.5 | 17.6 | 1.7 | 80 | | |
| | e PKPbc | Z | 20:24:19.1 | | | | | | |
| | e PKPab | Z | 20:24:27.5 | | | | | | |
| | e PP | Z | 20:27:56.4 | | | | | | |
| | e | | 20:38:17.6 | | | | | | |
| | e PPS | Z | 20:40:49.5 | | | | | | |
| | e SS | E | 20:47:31.2 | | | | | | |
| | e SSS | E | 20:53:10.5 | | | | | | |
| | e SSSS | N | 20:57:39.1 | | | | | | |
| | e L | Z | 21:42:42.3 | | | 18.0 | 4878 | 6.4 | |
| BRG | e PKPdf | Z | 20:24:12.5 | 151.8 | 19.6 | | | | |
| BUG | e PKPdf | Z | 20:24:14.6 | 152.2 | 6.5 | | | | |
| MOX | e PKPdf | Z | 20:24:13.5 | 152.4 | 15.3 | | | | |
| WERD | e PKPdf | Z | 20:24:13.8 | 152.5 | 16.7 | | | | |
| GUNZ | e PKPdf | Z | 20:24:14.1 | 152.6 | 16.8 | | | | |
| GRA1 | e PKPdf | Z | 20:24:16.3 | 153.4 | 15.0 | | | | |
| | e PP | Z | 20:28:05.8 | | | | | | |
| WET | e PKPdf | Z | 20:24:15.5 | 153.6 | 18.6 | | | | |
| GEC2 | e PKPdf | Z | 20:24:16.6 | 153.7 | 20.5 | | | | |
| WLF | e PKPdf | Z | 20:24:17.6 | 154.0 | 4.6 | | | | |
| STU | e PKPdf | Z | 20:24:16.7 | 154.6 | 11.2 | | | | |
| FUR | e PKPdf | Z | 20:24:18.6 | 154.9 | 15.9 | | | | |
| BFO | e PKPdf | Z | 20:24:17.9 | 155.1 | 9.5 | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|---------|-------|-----|----|----|--------|
| 2004/03/18 | 20:37:16.4 | 1.650S | 31.857E | 34.7 | 4.7 | | | SZGRF |
| 2004/03/18 | 20:37:44.7 | 2.074N | 31.438E | 30A | 4.5 | | | NEIC |

Lake Victoria region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 20:46:39.8 | 50.6 | 153.5 | 0.9 | 8 | 4.7 | | |
| | e pP | Z 20:46:49.3 | | | | | | | |
| | e sP | Z 20:46:53.5 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|---------|-------|----|----|----|--------|
| 2004/03/18 | 22:12:14.1 | 3.015S | 28.594E | 14.3 | | | | SZGRF |

Lake Tanganyika region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|----|
| GRA1 | e P | Z 22:21:43.6 | 54.8 | 158.6 | 1.0 | 7 | | | |
| | e pP | Z 22:21:47.5 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/18 | 23:09:36.3 | 31.350N | 41.196W | 33.0N | 5.0 | | | SZGRF |
| 2004/03/18 | 23:09:43.2 | 32.427N | 40.169W | 10G | 5.1 | 4.8 | | NEIC |

Northern Mid-Atlantic Ridge

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|-----|----|
| GRA1 | e P | Z 23:17:31.2 | 41.4 | 265.3 | 2.0 | 62 | 5.0 | | |
| CLL | e P | Z 23:17:41.6 | 42.8 | 265.0 | 1.6 | 43 | 4.9 | | |
| | e S | R 23:24:10.9 | | | | | | | |
| | e SS | T 23:27:19.1 | | | | | | | |
| | e LR | Z 23:29:52.7 | | | | | | | |
| | e L | Z 23:32:06.5 | | | 22.0 | 1870 | | 4.9 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/19 | 02:18:22.0 | 52.016N | 155.781E | 33.0N | 4.5 | | | SZGRF |

Northwest of Kuril Islands, Russia

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 02:29:54.4 | 73.9 | 21.8 | 0.9 | 5 | 4.5 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/19 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKP | Z 04:14:34.2 | | | | | | | |
| | e | 04:14:48.1 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/19 | 06:01:59.8 | 20.337S | 70.118W | 33D | 5.2 | 4.9 | | NEIC |

Near coast of northern Chile

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|-------|------|-------|----|----|----|
| GRA1 | e Pdiff | Z 06:15:41.8 | 100.0 | 250.3 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/19 | 20:42: 0.3 | 31.677S | 62.087E | 33.0N | 5.8 | 5.2 | | SZGRF |
| 2004/03/19 | 20:42:00.2 | 34.492S | 55.260E | 10G | 5.5 | 5.6 | | NEIC |

South Indian Ocean

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 20:55:10.8 | 92.8 | 145.0 | 2.0 | 75 | 5.8 | | |

| | | | | | | | | | |
|-----|------|---|------------|------|-------|------|-----|-----|--|
| | e L | Z | 21:41:35.6 | | | 19.4 | 816 | 5.2 | |
| CLL | e P | Z | 20:55:15.0 | 93.2 | 146.2 | 1.8 | 42 | 5.6 | |
| | e PP | Z | 20:59:03.7 | | | | | | |
| | e S | Z | 21:06:26.0 | | | | | | |
| | e PS | Z | 21:07:34.2 | | | | | | |
| | e SS | R | 21:12:34.9 | | | | | | |
| | e LR | Z | 21:26:35.9 | | | | | | |
| | e L | Z | 21:36:24.3 | | | 22.0 | 875 | | |

| | | | | | | | | |
|------------|-------------|-----|------|-------|----|----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2004/03/19 | | | | | | | | |

| | | | | | | | | | |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
| GRA1 | e PKP | Z 21:01:06.4 | | | | | | | |

| | | | | | | | | |
|----------------------------------|-------------|---------|----------|-------|-----|----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2004/03/19 | 20:57:58.6 | 21.990S | 169.990E | 55G | 4.7 | | | NEIC |
| Southeast of the Loyalty Islands | | | | | | | | |

| | | | | | | | | | |
|------|-------|--------------|-------|------|------|-------|----|----|----|
| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
| GRA1 | e PKP | Z 21:17:40.3 | 147.6 | 38.9 | | | | | |

| | | | | | | | | |
|-----------------------|-------------|---------|----------|-------|-----|-----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2004/03/20 | 00:10:42.1 | 23.911S | 175.950W | 10G | 5.2 | 4.7 | | NEIC |
| South of Fiji Islands | | | | | | | | |

| | | | | | | | | | |
|------|-------|--------------|-------|------|------|-------|----|----|----|
| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
| GRA1 | e PKP | Z 00:30:54.5 | 153.6 | 14.9 | | | | | |

| | | | | | | | | |
|----------------------|-------------|---------|----------|-------|-----|----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2004/03/20 | 02:34:14.8 | 16.879S | 172.966W | 250G | 4.4 | | | NEIC |
| Samoa Islands region | | | | | | | | |

| | | | | | | | | | |
|------|-------|--------------|-------|-----|------|-------|----|----|----|
| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
| GRA1 | e PKP | Z 02:53:42.0 | 147.0 | 7.4 | | | | | |

| | | | | | | | | |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2004/03/20 | 05:25:31.3 | 20.088S | 177.724W | 386D | 4.6 | | | NEIC |

Fiji region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|-------|------|------|-------|----|----|----|
| GRA1 | e PKP | Z 05:44:34.8 | 149.5 | 16.7 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/20 | 08:53:13.9 | 54.150N | 160.170E | 33.0N | 6.1 | 4.9 | | SZGRF |
| 2004/03/20 | 08:53:15.1 | 53.816N | 160.463E | 54 | 5.8 | 4.9 | | NEIC |

Near east coast of Kamchatka Peninsula, Russia

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|-----|----|
| BSEG | e P | Z 09:04:19.3 | 69.5 | 18.3 | 1.1 | 161 | 6.1 | | |
| RUE | e P | Z 09:04:23.4 | 70.1 | 20.2 | 1.2 | 315 | 6.3 | | |
| NRDL | e P | Z 09:04:27.6 | 70.9 | 18.0 | 1.0 | 114 | 5.9 | | |
| CLL | e P | Z 09:04:30.6 | 71.4 | 19.6 | 1.1 | 271 | 6.3 | | |
| CLZ | e P | Z 09:04:31.5 | 71.4 | 18.1 | 1.1 | 339 | 6.4 | | |
| IBBN | e P | Z 09:04:31.3 | 71.5 | 16.6 | 1.2 | 312 | 6.3 | | |
| BRG | e P | Z 09:04:32.0 | 71.6 | 20.1 | 1.3 | 134 | 5.9 | | |
| MOX | e P | Z 09:04:36.5 | 72.3 | 18.7 | 1.2 | 178 | 6.1 | | |
| WERD | e P | Z 09:04:36.9 | 72.4 | 19.1 | 1.1 | 176 | 6.1 | | |
| BUG | e P | Z 09:04:36.6 | 72.4 | 16.2 | 1.1 | 192 | 6.1 | | |
| GUNZ | e P | Z 09:04:37.5 | 72.4 | 19.1 | 1.4 | 204 | 6.1 | | |
| GRA1 | e P | Z 09:04:42.8 | 73.3 | 18.4 | 1.1 | 337 | 6.4 | | |
| | e L | Z 09:40:32.8 | | | 21.7 | 661 | | 4.9 | |
| WET | e P | Z 09:04:43.7 | 73.5 | 19.3 | 1.1 | 172 | 6.1 | | |
| GEC2 | e P | Z 09:04:43.9 | 73.6 | 19.7 | 1.2 | 117 | 5.8 | | |
| WLF | e P | Z 09:04:48.7 | 74.3 | 15.4 | 1.4 | 150 | 5.8 | | |
| STU | e P | Z 09:04:49.6 | 74.6 | 17.1 | 1.3 | 208 | 6.0 | | |
| FUR | e P | Z 09:04:50.8 | 74.7 | 18.3 | 1.2 | 234 | 6.1 | | |
| BFO | e P | Z 09:04:53.0 | 75.2 | 16.6 | 1.3 | 186 | 6.0 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|--------|-------|-----|----|----|--------|
| 2004/03/20 | 09:37:12.6 | 33.330N | 4.570W | 10.0G | 4.6 | | | SZGRF |
| 2004/03/20 | 09:37:26.4 | 35.007N | 4.148W | 0G | 4.4 | | | NEIC |

Morocco

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| BFO | e P | Z 09:41:22.0 | 16.2 | 219.3 | 1.3 | 26 | 4.2 | | |
| WLF | e P | Z 09:41:25.9 | 16.5 | 211.1 | 1.2 | 48 | 4.5 | | |
| STU | e P | Z 09:41:30.3 | 16.9 | 220.5 | | | | | |
| GRA1 | e P | Z 09:41:48.4 | 18.5 | 223.2 | | | | | |
| WERD | e P | Z 09:41:58.6 | 19.5 | 224.0 | | | | | |
| NRDL | e P | Z 09:42:07.3 | 20.2 | 215.7 | | | | | |
| CLL | e P | Z 09:42:08.6 | 20.4 | 223.8 | 1.5 | 61 | 4.8 | | |
| BRG | e P | Z 09:42:09.9 | 20.6 | 226.4 | | | | | |

| | | | | | | | | |
|------|-----|---|------------|------|-------|-----|----|-----|
| BSEG | e P | Z | 09:42:20.1 | 21.5 | 214.0 | 1.2 | 73 | 5.1 |
| RUE | e P | Z | 09:42:20.9 | 21.6 | 223.2 | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/20 | 19:20:44.9 | 24.686N | 92.476E | 33.0N | 4.9 | | | SZGRF |
| 2004/03/20 | 19:20:35.1 | 23.585N | 94.788E | 82D | 4.8 | | | NEIC |

India-Bangladesh border region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 19:31:28.1 | 68.2 | 78.8 | 1.1 | 9 | 4.9 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/20 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKP | Z 22:23:24.1 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|----|----|-----|--------|
| 2004/03/21 | 03:18:14.2 | 43.572N | 17.137E | 10.0G | | | 3.6 | SZGRF |

Northwestern Balkan Peninsula

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|-----|
| ARSA | e Pn | Z 03:19:12.1 | 3.8 | 162.3 | | | | | 3.6 |
| KBA | e Pn | Z 03:19:22.0 | 4.4 | 141.4 | | | | | |
| | e Sn | E 03:20:10.6 | | | | | | | |
| MOA | e Pn | Z 03:19:24.9 | 4.7 | 153.8 | | | | | |
| | e Sn | N 03:20:19.3 | | | | | | | |
| WTTA | e Pn | Z 03:19:33.7 | 5.3 | 131.7 | | | | | |
| | e Sn | N 03:20:35.2 | | | | | | | |
| GEC2 | e Pn | Z 03:19:39.0 | 5.8 | 154.5 | | | | | |
| | e Sn | E 03:20:42.4 | | | | | | | |
| WET | e Pn | Z 03:19:46.5 | 6.3 | 150.6 | | | | | |
| TANN | e Pn | Z 03:20:04.9 | 7.5 | 153.3 | | | | | |
| STU | e Pn | Z 03:20:03.0 | 7.6 | 130.5 | | | | | |
| BRG | e Pn | Z 03:20:04.5 | 7.6 | 162.3 | | | | | |
| BFO | e Pn | Z 03:20:05.1 | 7.7 | 124.6 | | | | | |
| | e Sn | E 03:21:29.7 | | | | | | | |
| MOX | e Pn | Z 03:20:10.8 | 8.0 | 150.0 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/21 | 09:18: 4.2 | 51.941N | 171.869E | 33.0N | 4.9 | | | SZGRF |

2004/03/21 09:18:36.5 51.717N 156.159E 198D 4.7 NEIC
Near Islands, Aleutian Islands, United States

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 09:29:54.4 | 74.3 | 21.7 | 1.2 | 11 | 4.9 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/21 | 10:34:56.6 | 38.800N | 73.260E | 111.2 | 5.4 | | | SZGRF |
| 2004/03/21 | 10:34:53.2 | 38.625N | 73.508E | 109D | 5.2 | | | NEIC |

Tajikistan-Xinjiang border region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|----------------|------|------|------|-------|-----|-----|----|
| BRG | e P | Z 10:42:41.3 | 42.8 | 82.6 | 1.0 | 60 | 5.3 | | |
| | e pP | Z 10:43:06.7 | | | | | | | |
| GEC2 | e P | Z 10:42:44.9 | 43.2 | 80.3 | 1.1 | 53 | 5.2 | | |
| CLL | i P | + Z 10:42:44.9 | 43.3 | 82.5 | 0.9 | 44 | 5.2 | | |
| | e pP | Z 10:43:09.9 | | | | | | | |
| | e sP | Z 10:43:22.5 | | | | | | | |
| | e L | Z 10:59:57.6 | | | 22.0 | 231 | | 4.0 | |
| WET | e P | Z 10:42:48.5 | 43.7 | 80.1 | 1.1 | 46 | 5.1 | | |
| GUNZ | e P | Z 10:42:49.9 | 43.9 | 81.0 | 1.0 | 37 | 5.1 | | |
| WERD | e P | Z 10:42:49.7 | 43.9 | 81.1 | 1.1 | 34 | 5.0 | | |
| MOX | e P | Z 10:42:53.2 | 44.3 | 80.8 | 1.1 | 37 | 5.0 | | |
| | e pP | Z 10:43:18.9 | | | | | | | |
| BSEG | e P | Z 10:42:56.0 | 44.6 | 83.2 | 1.1 | 48 | 5.1 | | |
| GRA1 | e P | Z 10:42:56.8 | 44.7 | 79.6 | 1.1 | 106 | 5.7 | | |
| CLZ | e P | Z 10:42:57.8 | 44.9 | 81.2 | 1.2 | 52 | 5.4 | | |
| NRDL | e P | Z 10:42:58.4 | 44.9 | 81.6 | 1.1 | 73 | 5.5 | | |
| FUR | e P | Z 10:42:59.0 | 44.9 | 78.1 | 0.9 | 114 | 5.8 | | |
| | e pP | Z 10:43:24.7 | | | | | | | |
| STU | e P | Z 10:43:08.1 | 46.2 | 77.4 | 1.1 | 57 | 5.5 | | |
| IBBN | e P | Z 10:43:09.7 | 46.4 | 79.8 | 1.4 | 112 | 5.7 | | |
| BUG | e P | Z 10:43:13.2 | 46.8 | 78.7 | 1.1 | 45 | 5.5 | | |
| BFO | e P | Z 10:43:13.0 | 46.8 | 76.5 | 1.2 | 48 | 5.5 | | |
| WLF | e P | Z 10:43:21.9 | 47.9 | 76.4 | 1.0 | 68 | 5.7 | | |
| | e pP | Z 10:43:48.0 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/22 | 19:33:41.2 | 51.466N | 161.369W | 33.0N | 4.7 | | | SZGRF |
| 2004/03/22 | 19:33:52.0 | 54.117N | 164.183W | 13 | 4.8 | | | NEIC |

South of Alaska

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 19:45:40.3 | 76.1 | 357.2 | 1.3 | 9 | 4.7 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/23 | 04:20:20.5 | 17.942S | 173.118W | 80G | 4.7 | | | NEIC |

Tonga

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| CLL | e PKPbc | Z 04:39:52.7 | 146.4 | 10.6 | 1.1 | 74 | | | |
| GRA1 | e PKP | Z 04:39:59.0 | 148.1 | 7.8 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|----|----|-----|--------|
| 2004/03/23 | 12:38:32.5 | 43.329N | 19.770E | 10.0G | | | 3.3 | SZGRF |
| 2004/03/23 | 12:38:31.8 | 43.334N | 19.638E | 10G | | | | NEIC |

Northwestern Balkan Peninsula

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|-----|
| OBKA | e Pn | Z 12:39:44.9 | 4.8 | 129.6 | | | | | 2.8 |
| ARSA | e Pn | Z 12:39:45.2 | 4.9 | 142.1 | | | | | 3.9 |
| | e Sn | E 12:40:40.6 | | | | | | | |
| KBA | e Pn | Z 12:39:59.0 | 5.8 | 127.9 | | | | | |
| MOA | e Pn | Z 12:39:59.7 | 5.9 | 138.3 | | | | | |
| | e Sn | N 12:41:07.0 | | | | | | | |
| WTTA | e Pn | Z 12:40:14.4 | 6.9 | 122.0 | | | | | |
| GEC2 | e Pn | Z 12:40:13.6 | 6.9 | 141.1 | | | | | |
| DAVA | e Pn | Z 12:40:28.3 | 7.9 | 116.4 | | | | | |
| GRA1 | e Pn | Z 12:40:36.5 | 8.6 | 134.5 | | | | | |
| TANN | e Pn | Z 12:40:38.3 | 8.6 | 142.6 | | | | | |
| BFO | e Pn | Z 12:40:46.1 | 9.3 | 118.2 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/23 | 21:20:39.5 | 18.760N | 144.659E | 27D | 5.1 | | | NEIC |

Mariana Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|-----|-----|----|
| CLL | e Pdiff | Z 21:34:16.0 | 98.4 | 45.7 | | | | | |
| | e PP | Z 21:38:20.7 | | | | | | | |
| | e SS | Z 21:53:12.6 | | | | | | | |
| | e LR | Z 22:08:52.5 | | | | | | | |
| | e L | Z 22:20:54.7 | | | 20.0 | 529 | | 5.0 | |
| GRA1 | e PP | Z 21:38:29.7 | 100.1 | 44.3 | 1.8 | 39 | 5.1 | | |
| | e pPP | Z 21:38:37.4 | | | | | | | |
| | e L | Z 22:22:04.2 | | | 19.7 | 382 | | 4.9 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/23 | 21:57:04.6 | 18.810N | 144.763E | 10G | 5.0 | 5.4 | | NEIC |

Mariana Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|-------|------|------|-------|-----|-----|----|
| GRA1 | e PP | Z 22:14:57.3 | 100.1 | 44.2 | 1.3 | 10 | 4.6 | | |
| | e L | Z 23:01:41.8 | | | 19.7 | 817 | | 5.2 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/24 | 01:53:43.6 | 44.900N | 119.630E | 27.3 | 5.9 | 5.7 | | SZGRF |
| 2004/03/24 | 01:53:49.3 | 45.390N | 118.247E | 18D | 5.6 | 5.2 | | NEIC |

Northeastern China

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|-----|----|
| RGN | e P | Z 02:04:08.5 | 61.6 | 50.5 | 1.4 | 215 | 6.2 | | |
| RUE | e P | Z 02:04:15.5 | 62.8 | 49.9 | 1.9 | 231 | 6.0 | | |
| BSEG | e P | Z 02:04:19.0 | 63.4 | 48.4 | 1.4 | 91 | 5.8 | | |
| | e pP | Z 02:04:26.2 | | | | | | | |
| BRG | e P | Z 02:04:21.5 | 63.7 | 49.4 | 1.4 | 86 | 5.8 | | |
| CLL | i P | Z 02:04:22.4 | 63.9 | 49.0 | 1.3 | 83 | 5.8 | | |
| | e PP | Z 02:06:50.8 | | | | | | | |
| | e PPP | Z 02:08:22.3 | | | | | | | |
| | e S | E 02:13:03.7 | | | | | | | |
| | e SSS | N 02:20:15.0 | | | | | | | |
| | e LR | Z 02:28:22.5 | | | | | | | |
| | e L | Z 02:34:57.2 | | | 18.0 | 6599 | | 5.9 | |
| NRDL | e P | Z 02:04:26.2 | 64.4 | 47.7 | 1.4 | 73 | 5.7 | | |
| | e pP | Z 02:04:33.6 | | | | | | | |
| CLZ | e P | Z 02:04:28.3 | 64.7 | 47.6 | 1.7 | 142 | 5.9 | | |
| WERD | e P | Z 02:04:28.5 | 64.8 | 48.3 | 1.4 | 90 | 5.8 | | |
| | e pP | Z 02:04:36.0 | | | | | | | |
| GUNZ | e P | Z 02:04:28.8 | 64.8 | 48.3 | 1.4 | 108 | 5.9 | | |
| MOX | e P | Z 02:04:29.6 | 65.0 | 48.0 | 1.6 | 159 | 6.0 | | |
| | e PP | Z 02:06:55.2 | | | | | | | |
| GEC2 | e P | Z 02:04:30.9 | 65.2 | 48.5 | 1.5 | 67 | 5.7 | | |
| | e pP | Z 02:04:38.4 | | | | | | | |
| WET | e P | Z 02:04:32.5 | 65.4 | 48.2 | 1.5 | 101 | 5.8 | | |
| IBBN | e P | Z 02:04:34.2 | 65.6 | 46.2 | 1.6 | 135 | 5.9 | | |
| GRA1 | e P | Z 02:04:35.2 | 65.8 | 47.4 | 1.3 | 174 | 6.1 | | |
| | e pP | Z 02:04:43.1 | | | | | | | |
| | e L | Z 02:36:27.5 | | | 18.3 | 4677 | | 5.7 | |
| BUG | e P | Z 02:04:38.8 | 66.4 | 45.7 | 1.4 | 93 | 5.8 | | |
| FUR | e P | Z 02:04:42.7 | 66.8 | 46.9 | 1.4 | 188 | 6.1 | | |
| | e pP | Z 02:04:49.5 | | | | | | | |
| STU | e P | Z 02:04:45.2 | 67.4 | 46.0 | 1.1 | 66 | 5.8 | | |
| BFO | e P | Z 02:04:50.4 | 68.1 | 45.4 | 1.6 | 113 | 5.9 | | |

GRA1 e PKP Z 18:04:32.2

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/24 | 18:13:22.0 | 29.016N | 55.611E | 33.0N | 4.4 | | | SZGRF |
| 2004/03/24 | 18:13:11.3 | 27.556N | 56.168E | 44? | 4.3 | | | NEIC |

Southern Iran

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 18:20:47.9 | 40.7 | 106.0 | 0.9 | 9 | 4.4 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/25 | 10:58:53.0 | 16.597S | 172.626W | 45A | 4.8 | | | NEIC |

Samoa Islands region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|-------|-----|------|-------|----|----|----|
| GRA1 | e PKP | Z 11:18:32.9 | 146.8 | 6.7 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/25 | 14:54:23.1 | 18.562S | 174.865W | 10G | 5.3 | 4.7 | | NEIC |

Tonga Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| GRA1 | e PKPbc | Z 15:14:10.0 | 148.5 | 11.1 | | | | | |
| | e PKPab | Z 15:14:13.6 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/25 | 19:30:57.4 | 40.180N | 39.730E | 10.0G | 5.2 | 5.0 | | SZGRF |
| 2004/03/25 | 19:30:49.0 | 39.862N | 40.773E | 10G | 5.0 | 5.5 | | NEIC |

Turkey

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|-----|----|
| GEC2 | e P | Z 19:35:35.4 | 21.2 | 104.9 | 3.1 | 797 | 5.4 | | |
| BRG | e P | Z 19:35:40.1 | 21.7 | 110.1 | 1.5 | 104 | 4.9 | | |
| WET | e P | Z 19:35:41.1 | 21.8 | 104.6 | 1.6 | 143 | 5.1 | | |
| CLL | e P | Z 19:35:49.3 | 22.4 | 109.9 | 1.3 | 111 | 5.1 | | |
| GUNZ | e P | Z 19:35:48.7 | 22.5 | 106.9 | 1.8 | 174 | 5.2 | | |
| WERD | e P | Z 19:35:48.7 | 22.5 | 107.0 | 1.4 | 66 | 4.9 | | |
| FUR | e P | Z 19:35:51.3 | 22.6 | 100.5 | 1.2 | 204 | 5.4 | | |
| GRA1 | e P | Z 19:35:54.1 | 23.0 | 104.0 | 1.5 | 452 | 5.7 | | |
| | e L | Z 19:47:59.0 | | | 19.8 | 6340 | | 5.0 | |
| MOX | e P | Z 19:35:53.8 | 23.0 | 106.7 | 1.2 | 51 | 4.8 | | |

| | | | | | | | | |
|------|-----|---|------------|------|-------|-----|-----|-----|
| CLZ | e P | Z | 19:36:05.1 | 24.1 | 107.8 | 1.3 | 102 | 5.2 |
| BFO | e P | Z | 19:36:10.2 | 24.6 | 98.0 | 1.1 | 43 | 4.9 |
| BSEG | e P | Z | 19:36:13.9 | 24.8 | 112.0 | 1.4 | 182 | 5.4 |
| WLF | e P | Z | 19:36:25.8 | 26.2 | 98.7 | 1.2 | 75 | 5.3 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/25 | 20:40:41.8 | 33.930N | 26.920E | 10.0G | 4.3 | | | SZGRF |
| 2004/03/25 | 20:40:53.7 | 34.464N | 26.525E | 24 | 4.6 | 5.1 | | NEIC |

Eastern Mediterranean Sea

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GEC2 | e P | Z 20:44:52.1 | 17.2 | 141.8 | 0.9 | 16 | 4.2 | | |
| WET | e P | Z 20:44:59.7 | 17.8 | 140.5 | 0.8 | 11 | 4.0 | | |
| BRG | e P | Z 20:45:11.9 | 18.8 | 146.1 | 0.8 | 15 | 4.3 | | |
| GRA1 | e P | Z 20:45:12.7 | 18.9 | 137.8 | 1.1 | 38 | 4.5 | | |
| GUNZ | e P | Z 20:45:13.2 | 19.0 | 141.5 | 0.8 | 15 | 4.3 | | |
| WERD | e P | Z 20:45:13.8 | 19.0 | 141.6 | 0.8 | 17 | 4.3 | | |
| BFO | e P | Z 20:45:17.0 | 19.4 | 129.1 | 1.0 | 17 | 4.2 | | |
| CLL | e P | Z 20:45:19.1 | 19.5 | 144.7 | 0.7 | 20 | 4.5 | | |
| MOX | e P | Z 20:45:19.4 | 19.5 | 140.5 | 0.9 | 13 | 4.2 | | |
| CLZ | e P | Z 20:45:33.6 | 20.9 | 140.0 | 0.9 | 16 | 4.4 | | |
| WLF | e P | Z 20:45:39.3 | 21.3 | 127.8 | 1.0 | 32 | 4.7 | | |
| BSEG | e P | Z 20:45:50.8 | 22.6 | 143.1 | 1.2 | 22 | 4.6 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/25 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e P | Z 21:15:12.3 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/25 | 22:09:22.9 | 39.695N | 40.746E | 10G | 4.3 | | | NEIC |

Turkey

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 22:14:29.6 | 23.0 | 104.4 | 1.3 | 8 | 4.1 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|----------|-------|-----|-----|----|--------|
| 2004/03/25 | 22:15:38.9 | 6.640S | 105.392E | 22* | 5.1 | 4.6 | | NEIC |

Sunda Strait, Indonesia

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|----|----|----|
| GRA1 | e PP | Z 22:33:10.7 | 97.8 | 91.1 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/26 | 02:51:44.2 | 21.780S | 177.630W | 408.4 | | | | SZGRF |
| 2004/03/26 | 02:51:44.4 | 21.342S | 177.986W | 403D | 4.9 | | | NEIC |

Fiji Islands region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|--------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z 03:10:40.0 | 146.8 | 14.2 | | | | | |
| RUE | e PKPbc | Z 03:10:42.0 | 147.6 | 20.7 | | | | | |
| IBBN | e PKPbc | Z 03:10:45.2 | 148.7 | 10.3 | | | | | |
| CLZ | e PKPbc | Z 03:10:45.6 | 148.8 | 15.2 | | | | | |
| CLL | e PKPdf | Z 03:10:41.2 | 148.8 | 20.1 | | | | | |
| | i PKPbc | Z 03:10:45.3 | | | 0.9 | 62 | | | |
| | e PKiKP | Z 03:10:47.1 | | | | | | | |
| | e PKPab | Z 03:10:51.2 | | | 0.8 | 51 | | | |
| | e pPKPbc | Z 03:12:23.3 | | | | | | | |
| BRG | e PKPbc | Z 03:10:46.0 | 149.0 | 22.0 | | | | | |
| | e PKPab | Z 03:10:52.5 | | | | | | | |
| BUG | e PKPbc | Z 03:10:46.9 | 149.6 | 9.7 | | | | | |
| WERD | e PKPbc | Z 03:10:47.8 | 149.8 | 19.3 | | | | | |
| GUNZ | e PKPbc | Z 03:10:48.1 | 149.9 | 19.4 | | | | | |
| | e PKPab | Z 03:10:55.9 | | | | | | | |
| GRA1 | e PKPbc | Z 03:10:50.1 | 150.7 | 17.7 | | | | | |
| | e PKPab | Z 03:11:00.0 | | | | | | | |
| | e pPKPbc | Z 03:12:28.9 | | | | | | | |
| WET | e PKPbc | Z 03:10:50.2 | 150.9 | 21.1 | | | | | |
| | e PKPab | Z 03:11:00.6 | | | | | | | |
| GEC2 | e PKPbc | Z 03:10:50.4 | 151.0 | 22.9 | | | | | |
| | e pPKPbc | Z 03:12:29.2 | | | | | | | |
| WLF | e PKPbc | Z 03:10:52.0 | 151.5 | 8.1 | | | | | |
| | e pPKPbc | Z 03:12:31.4 | | | | | | | |
| STU | e PKPbc | Z 03:10:52.7 | 152.0 | 14.3 | | | | | |
| | e PKPab | Z 03:11:04.1 | | | | | | | |
| FUR | e PKPbc | Z 03:10:53.2 | 152.2 | 18.7 | | | | | |
| | e PKPab | Z 03:11:05.9 | | | | | | | |
| BFO | e PKPbc | Z 03:10:53.6 | 152.5 | 12.8 | | | | | |
| | e PKPab | Z 03:11:06.5 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|---------|-------|-----|-----|----|--------|
| 2004/03/26 | 12:11:35.0 | 2.440S | 67.499E | 33.0N | 5.2 | | | SZGRF |
| 2004/03/26 | 12:11:30.5 | 2.578S | 68.483E | 20A | 5.1 | 4.6 | | NEIC |

Carlsberg Ridge

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 12:22:49.5 | 71.6 | 117.7 | 1.2 | 25 | 5.2 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------------------------|-------------|--------|----------|-------|-----|----|----|--------|
| 2004/03/26 | 12:25:54.6 | 3.533S | 151.137E | 81* | 5.2 | | | NEIC |
| New Ireland, Papua New Guinea, region | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| GRA1 | e PKPdf | Z 12:44:45.1 | 122.8 | 49.8 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/26 | 15:22:23.5 | 41.116N | 72.486E | 33.0N | | | | SZGRF |
| 2004/03/26 | 15:22:12.9 | 40.070N | 73.221E | 31* | 4.6 | | | NEIC |
| Kyrgyzstan | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|----|----|----|
| GRA1 | e P | Z 15:30:17.0 | 43.7 | 78.1 | 1.0 | 11 | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-------------------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/26 | 15:20:10.9 | 42.220N | 143.450E | 33.0N | 6.0 | 6.5 | | SZGRF |
| 2004/03/26 | 15:20:07.7 | 41.864N | 144.178E | 31 | 5.6 | 5.6 | | NEIC |
| Hokkaido, Japan, region | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|----------------|------|------|------|-------|-----|-----|----|
| RGN | e P | Z 15:31:47.9 | 74.9 | 35.7 | 1.0 | 199 | 6.1 | | |
| BSEG | e P | Z 15:31:56.0 | 76.4 | 33.5 | 1.1 | 168 | 6.1 | | |
| RUE | e P | Z 15:31:56.0 | 76.4 | 35.7 | 1.0 | 232 | 6.3 | | |
| HLG | e P | Z 15:31:59.8 | 76.9 | 31.9 | 0.9 | 136 | 6.1 | | |
| CLL | i P | + Z 15:32:02.5 | 77.6 | 35.0 | 0.9 | 210 | 6.3 | | |
| | e pP | Z 15:32:13.4 | | | | | | | |
| | e sP | Z 15:32:19.5 | | | | | | | |
| | e PP | Z 15:34:58.2 | | | | | | | |
| | e PPP | Z 15:36:48.4 | | | | | | | |
| | e S | T 15:41:51.5 | | | | | | | |
| | e sS | T 15:42:10.4 | | | | | | | |
| | e SP | Z 15:42:33.7 | | | | | | | |
| | e (SS) | R 15:47:29.1 | | | | | | | |
| | e (SSS) | R 15:50:50.7 | | | | | | | |
| | e LQ | T 15:56:35.1 | | | | | | | |
| | e LR | Z 15:58:50.3 | | | | | | | |
| | e L | Z 16:10:08.4 | | | 20.0 | 21355 | | 6.5 | |
| BRG | e P | Z 15:32:02.9 | 77.6 | 35.6 | 1.1 | 82 | 5.8 | | |
| CLZ | e P | Z 15:32:05.8 | 78.1 | 33.3 | 1.1 | 220 | 6.2 | | |

| | | | | | | | | |
|------|------|---|------------|------|------|------|-------|-----|
| IBBN | e P | Z | 15:32:08.0 | 78.6 | 31.6 | 1.0 | 186 | 6.2 |
| WERD | e P | Z | 15:32:08.1 | 78.6 | 34.5 | 1.1 | 78 | 5.8 |
| GUNZ | e P | Z | 15:32:08.6 | 78.6 | 34.5 | 1.0 | 86 | 5.8 |
| GEC2 | e P | Z | 15:32:12.7 | 79.4 | 35.2 | 1.1 | 70 | 5.6 |
| WET | e P | Z | 15:32:13.2 | 79.4 | 34.7 | 1.1 | 163 | 6.0 |
| BUG | e P | Z | 15:32:12.8 | 79.5 | 31.2 | 1.1 | 151 | 5.9 |
| GRA1 | e P | Z | 15:32:14.3 | 79.6 | 33.7 | 1.1 | 275 | 6.2 |
| | e PP | Z | 15:35:17.2 | | | | | |
| | e S | E | 15:42:14.5 | | | | | |
| | e L | Z | 16:11:18.0 | | | 19.0 | 21197 | 6.5 |
| FUR | e P | Z | 15:32:20.9 | 80.8 | 33.5 | 1.0 | 234 | 6.1 |
| STU | e P | Z | 15:32:21.7 | 81.1 | 32.2 | 0.9 | 140 | 6.0 |
| WLF | e P | Z | 15:32:23.9 | 81.4 | 30.3 | 1.1 | 77 | 5.7 |
| BFO | e P | Z | 15:32:25.1 | 81.8 | 31.6 | 1.2 | 121 | 5.9 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/26 | 16:26:45.1 | 42.520N | 143.610E | 33.0N | 5.3 | | | SZGRF |
| 2004/03/26 | 16:26:38.3 | 41.871N | 144.269E | 12* | 5.1 | 5.0 | | NEIC |

Hokkaido, Japan, region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|--------|-----|------------|------|------|------|-------|-----|-----|----|
| BSEG | e P | Z | 16:38:29.3 | 76.4 | 33.5 | 1.0 | 33 | 5.4 | | |
| RUE | e P | Z | 16:38:29.5 | 76.4 | 35.6 | 1.6 | 101 | 5.7 | | |
| CLL | i P | + Z | 16:38:35.9 | 77.6 | 35.0 | 0.9 | 39 | 5.6 | | |
| | e S | Z | 16:48:33.7 | | | | | | | |
| | e (SS) | E | 16:53:58.0 | | | | | | | |
| | e L | Z | 17:16:41.0 | | | 20.0 | 1011 | | 5.1 | |
| BRG | e P | Z | 16:38:36.0 | 77.7 | 35.5 | 1.0 | 17 | 5.1 | | |
| CLZ | e P | Z | 16:38:39.2 | 78.1 | 33.3 | 0.9 | 35 | 5.5 | | |
| IBBN | e P | Z | 16:38:41.3 | 78.6 | 31.5 | 0.9 | 33 | 5.5 | | |
| WERD | e P | Z | 16:38:41.4 | 78.6 | 34.4 | 1.8 | 45 | 5.3 | | |
| GUNZ | e P | Z | 16:38:41.9 | 78.7 | 34.4 | 1.0 | 16 | 5.1 | | |
| GEC2 | e P | Z | 16:38:45.9 | 79.4 | 35.1 | 1.0 | 13 | 4.9 | | |
| WET | e P | Z | 16:38:46.5 | 79.5 | 34.6 | 1.0 | 29 | 5.3 | | |
| BUG | e P | Z | 16:38:45.8 | 79.5 | 31.1 | 1.3 | 34 | 5.2 | | |
| GRA1 | e P | Z | 16:38:47.7 | 79.6 | 33.6 | 1.1 | 52 | 5.5 | | |
| FUR | e P | Z | 16:38:54.1 | 80.9 | 33.5 | 1.0 | 44 | 5.3 | | |
| STU | e P | Z | 16:38:55.0 | 81.1 | 32.2 | 1.4 | 41 | 5.3 | | |
| WLF | e P | Z | 16:38:57.7 | 81.4 | 30.2 | 1.1 | 15 | 4.9 | | |
| BFO | e P | Z | 16:38:58.3 | 81.8 | 31.5 | 1.6 | 44 | 5.2 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|---------|-------|-----|----|----|--------|
| 2004/03/26 | 19:50:33.0 | 4.189N | 98.883E | 33.0N | 4.8 | | | SZGRF |
| 2004/03/26 | 19:50:42.6 | 3.473N | 96.583E | 82 | 4.7 | | | NEIC |

Northern Sumatera, Indonesia

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 20:03:07.0 | 84.4 | 91.3 | 1.0 | 7 | 4.8 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/26 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKP | Z 23:42:24.9 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/27 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-----|-------|--------------|------|-----|------|-------|-----|-----|----|
| CLL | e P | Z 23:34:25.6 | | | 1.8 | 40 | 5.5 | | |
| | e PP | Z 23:38:12.3 | | | | | | | |
| | e S | Z 23:45:32.1 | | | | | | | |
| | e L | Z 00:18:15.6 | | | 20.0 | 564 | | 5.0 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-------------------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/27 | 00:43: 9.6 | 40.500N | 68.500E | 24.1 | 4.9 | 4.4 | | SZGRF |
| 2004/03/27 | 00:43:08.1 | 39.982N | 69.153E | 21D | 5.1 | 4.4 | | NEIC |
| Southeastern Uzbekistan | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|-----|----|
| RUE | e P | Z 00:50:36.4 | 39.2 | 85.8 | | | | | |
| | e pP | Z 00:50:42.5 | | | 1.6 | 60 | 5.0 | | |
| BRG | e P | Z 00:50:36.3 | 39.3 | 84.0 | | | | | |
| | e pP | Z 00:50:43.3 | | | 0.8 | 34 | 5.0 | | |
| GEC2 | e P | Z 00:50:41.0 | 39.7 | 81.4 | | | | | |
| | e pP | Z 00:50:47.1 | | | 1.0 | 27 | 4.8 | | |
| CLL | i P | Z 00:50:40.7 | 39.8 | 83.9 | 1.0 | 26 | 4.8 | | |
| | e pP | 00:50:47.1 | | | | | | | |
| | e PP | Z 00:52:12.0 | | | | | | | |
| | e PcP | Z 00:52:44.6 | | | | | | | |
| | e S | T 00:56:44.2 | | | | | | | |
| | e SS | Z 00:59:44.9 | | | | | | | |
| | e LQ | N 01:02:26.7 | | | | | | | |
| | e LR | Z 01:05:43.4 | | | | | | | |
| | e L | Z 01:10:32.6 | | | 18.0 | 811 | | 4.6 | |
| WET | e P | Z 00:50:44.4 | 40.2 | 81.2 | | | | | |
| | e pP | Z 00:50:50.7 | | | 1.0 | 26 | 4.8 | | |
| GUNZ | e pP | Z 00:50:52.1 | 40.3 | 82.3 | 1.0 | 16 | 4.6 | | |

./2004/bul0403.txt

Thu Apr 23 08:38:25 2020

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| | | | | | | | | | | | |
|------|------|---|------------|------|------|------|-----|-----|-----|--|--|
| WERD | e P | Z | 00:50:45.5 | 40.3 | 82.4 | | | | | | |
| | e pP | Z | 00:50:52.0 | | | 1.0 | 19 | 4.7 | | | |
| GRA1 | e P | Z | 00:50:53.1 | 41.1 | 80.8 | | | | | | |
| | e pP | Z | 00:50:59.6 | | | 0.9 | 62 | 5.3 | | | |
| | e L | Z | 01:10:33.6 | | | 20.2 | 546 | | 4.4 | | |
| BSEG | e P | Z | 00:50:52.8 | 41.2 | 85.0 | | | | | | |
| | e pP | Z | 00:50:59.2 | | | 0.9 | 27 | 5.0 | | | |
| CLZ | e pP | Z | 00:51:00.4 | 41.4 | 82.6 | 1.0 | 18 | 4.7 | | | |
| FUR | e pP | Z | 00:51:00.9 | 41.4 | 79.1 | 1.0 | 44 | 5.1 | | | |
| STU | e P | Z | 00:51:04.9 | 42.6 | 78.5 | | | | | | |
| | e pP | Z | 00:51:10.8 | | | 0.8 | 31 | 5.1 | | | |
| IBBN | e P | Z | 00:51:07.6 | 42.9 | 81.3 | | | | | | |
| | e pP | Z | 00:51:13.2 | | | 1.1 | 51 | 5.2 | | | |
| BFO | e P | Z | 00:51:09.6 | 43.3 | 77.5 | | | | | | |
| | e pP | Z | 00:51:15.7 | | | 0.9 | 21 | 4.9 | | | |
| BUG | e P | Z | 00:51:09.2 | 43.3 | 80.1 | | | | | | |
| | e pP | Z | 00:51:17.0 | | | 1.1 | 21 | 4.8 | | | |
| WLF | e P | Z | 00:51:19.3 | 44.4 | 77.6 | | | | | | |
| | e pP | Z | 00:51:25.4 | | | 0.9 | 26 | 5.0 | | | |

Date
2004/03/27

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

| | | | | | | | | | |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
| GEC2 | e Pn | Z 02:25:45.2 | | | | | | | |
| | e Sn | E 02:26:49.8 | | | | | | | |
| WET | e Pn | Z 02:25:50.4 | | | | | | | |
| | e Sn | N 02:26:59.2 | | | | | | | |

Date
2004/03/27
Tajikistan

Origin Time
04:18:25.1

Lat
39.948N

Long
70.209E

Depth
33.0N

mb
4.4

Ms

ML

Source
SZGRF

| | | | | | | | | | |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
| GRA1 | e P | Z 04:26:12.1 | 41.8 | 80.1 | 1.4 | 10 | 4.4 | | |

Date
2004/03/27
Turkey

Origin Time
04:43:47.3

Lat
39.228N

Long
41.562E

Depth
33.0N

mb
4.0

Ms

ML

Source
SZGRF

| | | | | | | | | | |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
| GRA1 | e P | Z 04:48:58.1 | 23.8 | 104.4 | 1.3 | 6 | 4.0 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|----------|-------|-----|----|----|--------|
| 2004/03/27 | 06:19:42.6 | 6.263S | 154.621E | 99 | 5.6 | | | NEIC |

Bougainville - Solomon Islands region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|--------------|-------|------|------|-------|----|-----|----|
| RGN | e PKPdf | Z 06:38:28.3 | 122.6 | 47.5 | | | | | |
| RUE | e PKPdf | Z 06:38:30.5 | 123.8 | 49.0 | | | | | |
| BSEG | e PKPdf | Z 06:38:30.7 | 124.3 | 44.6 | | | | | |
| BRG | e PKPdf | Z 06:38:31.5 | 124.7 | 50.0 | | | | | |
| CLL | e Pdiff | Z 06:35:20.6 | 124.9 | 48.8 | | | | | |
| | i PKPdf | Z 06:38:31.5 | | | 1.0 | 24 | | | |
| | e | 06:38:46.3 | | | | | | | |
| | e PP | Z 06:40:25.4 | | | | | | | |
| | e PKSdf | N 06:42:00.7 | | | | | | | |
| | e PPP | Z 06:43:05.7 | | | | | | | |
| | e PKKPbc | Z 06:48:11.7 | | | | | | | |
| | e PS | E 06:50:24.6 | | | | | | | |
| | e PPS | Z 06:51:53.9 | | | | | | | |
| | e (SS) | N 06:57:51.7 | | | | | | | |
| | e (SSS) | E 07:02:17.6 | | | | | | | |
| | e LR | Z 07:20:34.4 | | | | | | | |
| | e L | Z 07:35:53.4 | | | 22.0 | 1158 | | 5.5 | |
| CLZ | e PKPdf | Z 06:38:34.0 | 125.7 | 45.7 | | | | | |
| WERD | e PKPdf | Z 06:38:33.7 | 125.8 | 48.5 | | | | | |
| GUNZ | e PKPdf | Z 06:38:34.0 | 125.8 | 48.6 | | | | | |
| GEC2 | e PKPdf | Z 06:38:34.1 | 126.2 | 50.9 | | | | | |
| WET | e PKPdf | Z 06:38:34.8 | 126.4 | 49.9 | | | | | |
| IBBN | e PKPdf | Z 06:38:35.3 | 126.5 | 42.5 | | | | | |
| GRA1 | e PKPdf | Z 06:38:35.6 | 126.8 | 47.8 | | | | | |
| | e PP | Z 06:40:36.0 | | | | | | | |
| | e L | Z 07:37:07.7 | | | 22.0 | 1096 | | 5.5 | |
| BUG | e PKPdf | Z 06:38:36.8 | 127.4 | 42.4 | | | | | |
| FUR | e PKPdf | Z 06:38:38.2 | 127.8 | 48.7 | | | | | |
| STU | e PKPdf | Z 06:38:39.0 | 128.4 | 46.1 | | | | | |
| BFO | e PKPdf | Z 06:38:39.1 | 129.1 | 45.3 | | | | | |
| WLF | e PKPdf | Z 06:38:41.0 | 129.2 | 42.1 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/27 | 14:04:46.7 | 42.384N | 144.846E | 33.0N | 4.6 | | | SZGRF |

Hokkaido, Japan, region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 14:16:49.8 | 79.4 | 33.0 | 1.1 | 8 | 4.6 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/27 | 18:45:21.3 | 33.230N | 90.340E | 33.0N | 5.7 | | | SZGRF |
| 2004/03/27 | 18:45:26.3 | 33.963N | 89.216E | 10G | 5.5 | | | NEIC |

Qinghai, China

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| RUE | e P | Z | 18:55:01.8 | 55.2 | 77.7 | 1.5 | 110 | 5.7 | | |
| BRG | e P | Z | 18:55:02.8 | 55.5 | 76.7 | 1.6 | 112 | 5.6 | | |
| CLL | e P | Z | 18:55:05.9 | 56.0 | 76.4 | 1.3 | 54 | 5.4 | | |
| GEC2 | e P | Z | 18:55:07.6 | 56.1 | 75.2 | 1.4 | 143 | 5.8 | | |
| WET | e P | Z | 18:55:10.7 | 56.6 | 74.9 | 1.5 | 99 | 5.6 | | |
| WERD | e P | Z | 18:55:10.9 | 56.6 | 75.4 | 1.5 | 73 | 5.5 | | |
| GUNZ | e P | Z | 18:55:11.2 | 56.6 | 75.3 | 1.5 | 90 | 5.6 | | |
| BSEG | e P | Z | 18:55:13.3 | 56.9 | 76.2 | 1.4 | 83 | 5.6 | | |
| CLZ | e P | Z | 18:55:16.5 | 57.4 | 74.9 | 1.4 | 137 | 5.8 | | |
| GRA1 | e P | Z | 18:55:17.5 | 57.5 | 74.2 | 1.5 | 173 | 5.9 | | |
| FUR | e P | Z | 18:55:20.0 | 57.9 | 73.3 | 1.4 | 264 | 6.1 | | |
| IBBN | e P | Z | 18:55:26.3 | 58.8 | 73.4 | 1.6 | 112 | 5.6 | | |
| STU | e P | Z | 18:55:27.7 | 59.0 | 72.3 | 1.4 | 134 | 5.8 | | |
| BUG | e P | Z | 18:55:30.0 | 59.4 | 72.6 | 1.5 | 90 | 5.6 | | |
| BFO | e P | Z | 18:55:31.8 | 59.7 | 71.5 | 1.5 | 92 | 5.6 | | |
| WLF | e P | Z | 18:55:39.2 | 60.6 | 70.9 | 1.5 | 151 | 5.6 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/27 | 18:47:35.9 | 34.220N | 88.750E | 33.0N | 6.3 | 6.0 | | SZGRF |
| 2004/03/27 | 18:47:29.1 | 33.954N | 89.163E | 8G | 6.1 | 5.8 | | NEIC |

Xizang

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|-----|----|
| RGN | e P | Z | 18:57:02.9 | 55.1 | 78.8 | 1.7 | 698 | 6.4 | | |
| RUE | e P | Z | 18:57:03.7 | 55.2 | 77.8 | 1.6 | 355 | 6.2 | | |
| BRG | e P | Z | 18:57:05.8 | 55.5 | 76.8 | 1.5 | 375 | 6.2 | | |
| CLL | i P | - | 18:57:08.7 | 55.9 | 76.4 | 1.5 | 299 | 6.1 | | |
| | e PP | R | 18:59:19.5 | | | | | | | |
| | e PPP | Z | 19:00:21.7 | | | | | | | |
| | e S | T | 19:05:01.2 | | | | | | | |
| | e SS | R | 19:08:52.9 | | | | | | | |
| | e LQ | T | 19:14:41.2 | | | | | | | |
| | e LR | Z | 19:16:04.6 | | | | | | | |
| | e L | Z | 19:23:02.0 | | | 18.0 | 10946 | | 6.0 | |
| GEC2 | e P | Z | 18:57:10.7 | 56.1 | 75.3 | 1.6 | 662 | 6.4 | | |
| WET | e P | Z | 18:57:13.9 | 56.6 | 75.0 | 1.6 | 440 | 6.2 | | |
| WERD | e P | Z | 18:57:13.8 | 56.6 | 75.4 | 1.5 | 293 | 6.1 | | |
| GUNZ | e P | Z | 18:57:13.9 | 56.6 | 75.4 | 1.5 | 388 | 6.2 | | |
| BSEG | e P | Z | 18:57:16.4 | 56.9 | 76.3 | 1.5 | 309 | 6.1 | | |

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| | | | | | | | | | | |
|------|------|---|------------|------|------|------|-------|-----|-----|--|
| CLZ | e P | Z | 18:57:19.6 | 57.4 | 75.0 | 1.5 | 486 | 6.3 | | |
| GRA1 | e P | Z | 18:57:20.5 | 57.5 | 74.2 | 1.6 | 818 | 6.5 | | |
| | e PP | Z | 18:59:27.1 | | | | | | | |
| | e S | E | 19:05:19.7 | | | | | | | |
| | e L | Z | 19:22:07.1 | | | 21.9 | 14262 | | 6.0 | |
| FUR | e P | Z | 18:57:23.1 | 57.8 | 73.3 | 1.6 | 1297 | 6.7 | | |
| HLG | e P | Z | 18:57:26.1 | 58.2 | 74.7 | 2.1 | 971 | 6.5 | | |
| IBBN | e P | Z | 18:57:29.5 | 58.8 | 73.5 | 1.7 | 556 | 6.3 | | |
| STU | e P | Z | 18:57:30.6 | 59.0 | 72.4 | 1.5 | 651 | 6.4 | | |
| BUG | e P | Z | 18:57:33.2 | 59.4 | 72.6 | 1.5 | 317 | 6.1 | | |
| BFO | e P | Z | 18:57:35.0 | 59.7 | 71.6 | 1.6 | 396 | 6.2 | | |
| WLF | e P | Z | 18:57:42.2 | 60.6 | 70.9 | 1.6 | 745 | 6.5 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/27 | 20:05:46.3 | 33.190N | 90.500E | 33.0N | 5.1 | | | SZGRF |

Qinghai, China

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| BRG | e P | Z 20:15:29.0 | 56.8 | 76.6 | 1.4 | 17 | 4.9 | | |
| GEC2 | e P | Z 20:15:33.5 | 57.5 | 75.1 | 1.2 | 34 | 5.3 | | |
| WET | e P | Z 20:15:36.5 | 57.9 | 74.8 | 1.3 | 20 | 5.0 | | |
| GUNZ | e P | Z 20:15:36.5 | 57.9 | 75.2 | 1.2 | 22 | 5.0 | | |
| CLZ | e P | Z 20:15:42.4 | 58.7 | 74.7 | 1.0 | 34 | 5.3 | | |
| GRA1 | e P | Z 20:15:43.3 | 58.8 | 74.0 | 1.0 | 30 | 5.3 | | |
| FUR | e P | Z 20:15:45.8 | 59.2 | 73.2 | 1.2 | 58 | 5.5 | | |
| STU | e P | Z 20:15:53.3 | 60.3 | 72.2 | 1.4 | 40 | 5.1 | | |
| BFO | e P | Z 20:15:57.8 | 61.0 | 71.4 | 1.3 | 21 | 4.8 | | |
| WLF | e P | Z 20:16:04.6 | 61.9 | 70.7 | 1.3 | 28 | 5.3 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/27 | 21:17:56.0 | 53.110N | 162.536W | 33.0N | 4.7 | | | SZGRF |
| 2004/03/27 | 21:17:56.0 | 53.583N | 162.900W | 15 | 4.5 | | | NEIC |

South of Alaska

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 21:29:46.3 | 76.6 | 356.4 | 0.9 | 6 | 4.7 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2004/03/27 | 23:21:30.2 | 14.633N | 120.473E | 33.0N | 5.2 | | | SZGRF |
| 2004/03/27 | 23:21:04.0 | 11.245N | 124.396E | 10G | 5.4 | 5.0 | | NEIC |

Luzon, Philippine Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-----|-------|------|------|-----|------|-------|----|----|----|
|-----|-------|------|------|-----|------|-------|----|----|----|

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GRA1 e P Z 23:34:30.4 95.8 65.0 1.0 13 5.2

Date Origin Time Lat Long Depth mb Ms ML Source
2004/03/28 01:01:47.2 33.386N 90.477E 33.0N 4.4
Qinghai, China

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 01:11:41.5 58.6 73.9 1.2 5 4.4

Date Origin Time Lat Long Depth mb Ms ML Source
2004/03/28 01:23:40.9 12.120S 71.843W 33.0N 5.1
2004/03/28 01:23:32.6 10.172S 73.519W 35D 5.0 4.4
Central Peru

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 01:36:59.5 94.4 259.4 1.1 8 5.1

Date Origin Time Lat Long Depth mb Ms ML Source
2004/03/28 02:25: 3.7 1.414S 14.509W 33.0N 4.6
North of Ascension Island

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 02:34:37.6 55.7 211.7 1.0 6 4.6

Date Origin Time Lat Long Depth mb Ms ML Source
2004/03/28 03:51:21.7 40.030N 39.446E 10.0G 5.4 4.9
2004/03/28 03:51:10.0 39.847N 40.874E 5 5.3 5.3
Turkey

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GEC2 e P Z 03:55:57.3 21.3 104.8 1.6 151 5.0
BRG e P Z 03:56:02.4 21.7 110.0 1.1 71 4.9
WET e P Z 03:56:03.0 21.9 104.6 2.1 236 5.2
RUE e P Z 03:56:09.9 22.4 113.5 1.1 194 5.4
CLL e P Z 03:56:10.4 22.4 109.8 1.3 161 5.3
GUNZ e P Z 03:56:11.6 22.5 106.8 1.4 120 5.1
WERD e P Z 03:56:11.6 22.6 106.9 2.2 227 5.2
FUR e P Z 03:56:12.2 22.7 100.5 1.2 184 5.4
GRA1 e P Z 03:56:16.3 23.0 103.9 1.2 337 5.6
e S E 04:00:23.4
e L Z 04:08:20.8 19.9 4504 4.9

| | | | | | | | | |
|------|-----|---|------------|------|-------|-----|-----|-----|
| RGN | e P | Z | 03:56:22.5 | 23.5 | 117.2 | 1.2 | 484 | 5.9 |
| CLZ | e P | Z | 03:56:26.9 | 24.1 | 107.7 | 1.2 | 114 | 5.3 |
| STU | e P | Z | 03:56:26.3 | 24.1 | 99.7 | 1.5 | 421 | 5.7 |
| BFO | e P | Z | 03:56:31.8 | 24.6 | 97.9 | 1.5 | 82 | 5.0 |
| BSEG | e P | Z | 03:56:35.1 | 24.9 | 111.9 | 1.4 | 151 | 5.3 |
| IBBN | e P | Z | 03:56:44.3 | 25.8 | 105.6 | 1.8 | 613 | 6.0 |
| BUG | e P | Z | 03:56:44.8 | 25.9 | 103.3 | 1.5 | 172 | 5.6 |
| WLF | e P | Z | 03:56:47.5 | 26.3 | 98.6 | 1.1 | 85 | 5.4 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/28 | 04:15:20.4 | 38.877N | 40.905E | 33.0N | 4.2 | | | SZGRF |

Turkey

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 04:20:29.2 | 23.6 | 105.9 | 1.2 | 9 | 4.2 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/28 | 04:26:19.9 | 38.887N | 41.309E | 33.0N | 3.9 | | | SZGRF |

Turkey

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 04:31:31.1 | 23.9 | 105.4 | 1.6 | 7 | 3.9 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/28 | 04:54:54.3 | 38.552N | 41.929E | 33.0N | 4.3 | | | SZGRF |

Turkey

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 05:00:10.7 | 24.5 | 105.3 | 1.2 | 7 | 4.3 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/28 | 05:12:54.3 | 38.773N | 41.251E | 33.0N | 3.8 | | | SZGRF |

Turkey

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 05:18:05.8 | 23.9 | 105.7 | 1.0 | 3 | 3.8 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/28 | 05:26:18.2 | 35.380N | 89.385E | 33.0N | 4.3 | | | SZGRF |

Xizang

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 05:35:58.5 | 56.7 | 72.8 | 1.0 | 3 | 4.3 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|---------|-------|-----|-----|----|--------|
| 2004/03/28 | 08:41:25.5 | 0.225S | 76.741W | 33.0N | 5.5 | 4.8 | | SZGRF |
| 2004/03/28 | 08:41:13.0 | 1.054S | 78.308W | 5* | 5.4 | 4.6 | | NEIC |

Ecuador

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|-----|----|
| GRA1 | e P | Z 08:54:16.6 | 90.5 | 269.0 | 1.9 | 63 | 5.5 | | |
| | e | 08:55:06.1 | | | | | | | |
| | e L | Z 09:31:03.4 | | | 21.4 | 351 | | 4.8 | |
| CLL | e P | Z 08:54:23.0 | | | 2.1 | 75 | 5.7 | | |
| | e SS | Z 09:12:12.3 | 91.6 | 270.4 | | | | | |
| | e SSS | Z 09:15:51.7 | | | | | | | |
| | e LR | Z 09:25:24.8 | | | | | | | |
| | e L | Z 09:34:07.7 | | | 20.0 | 247 | | 4.6 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| 2004/03/28 | 11:52:22.8 | 15.993S | 174.345W | 33.0N | | | | SZGRF |

Tonga Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| BRG | e PKPbc | Z 12:11:52.9 | 144.5 | 13.8 | | | | | |
| WERD | e PKPbc | Z 12:11:55.4 | 145.1 | 11.2 | | | | | |
| GUNZ | e PKPbc | Z 12:11:55.4 | 145.2 | 11.3 | | | | | |
| GRA1 | e PKPbc | Z 12:11:58.7 | 146.0 | 9.6 | | | | | |
| WLF | e PKPbc | Z 12:11:59.7 | 146.3 | 0.9 | | | | | |
| WET | e PKPbc | Z 12:11:59.4 | 146.3 | 12.6 | | | | | |
| GEC2 | e PKPbc | Z 12:11:59.7 | 146.5 | 14.1 | | | | | |
| STU | e PKPbc | Z 12:12:02.4 | 147.1 | 6.3 | | | | | |
| FUR | e PKPbc | Z 12:12:02.6 | 147.5 | 10.1 | | | | | |
| BFO | e PKPbc | Z 12:12:02.8 | 147.6 | 4.8 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2004/03/28 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e P | Z 13:36:42.3 | | | | | | | |

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| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/28 | 14:54:30.0 | 35.610N | 23.720E | 10.0G | 4.6 | 3.9 | | SZGRF |
| 2004/03/28 | 14:54:37.8 | 35.541N | 22.861E | 55 | 4.5 | | | NEIC |

Crete, Greece

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|-----|----|
| GEC2 | e P | Z 14:58:04.2 | 14.9 | 149.8 | 1.0 | 28 | | | |
| WET | e P | Z 14:58:09.1 | 15.4 | 148.0 | 0.9 | 54 | | | |
| GRA1 | e P | Z 14:58:22.8 | 16.5 | 144.7 | 0.8 | 120 | | | |
| | e L | Z 15:06:09.1 | | | 21.0 | 809 | | 3.9 | |
| STU | e P | Z 14:58:28.3 | 16.6 | 137.7 | 0.6 | 18 | | | |
| BRG | e P | Z 14:58:26.0 | 16.6 | 153.8 | 1.0 | 21 | 4.2 | | |
| GUNZ | e P | Z 14:58:27.9 | 16.7 | 148.8 | 1.1 | 50 | | | |
| BFO | e P | Z 14:58:28.6 | 16.7 | 134.7 | 1.1 | 22 | 4.2 | | |
| WERD | e P | Z 14:58:30.0 | 16.7 | 148.9 | 1.5 | 67 | | | |
| CLL | e P | Z 14:58:35.1 | 17.3 | 152.0 | 0.7 | 44 | 4.7 | | |
| RUE | e P | Z 14:58:45.9 | 18.1 | 155.6 | 0.8 | 69 | | | |
| CLZ | e P | Z 14:58:51.5 | 18.6 | 146.5 | 0.7 | 27 | 4.6 | | |
| WLF | e P | Z 14:58:53.5 | 18.6 | 133.0 | 1.0 | 32 | | | |
| BUG | e P | Z 14:59:00.8 | 19.4 | 138.9 | 0.9 | 18 | 4.3 | | |
| IBBN | e P | Z 14:59:06.2 | 19.9 | 141.5 | 0.7 | 31 | | | |
| BSEG | e P | Z 14:59:10.0 | 20.4 | 149.5 | 0.9 | 124 | 5.3 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/28 | 15:11:24.0 | 44.188N | 149.429E | 33.0N | 4.6 | | | SZGRF |
| 2004/03/28 | 15:11:43.3 | 45.253N | 148.233E | 162 | 4.2 | | | NEIC |

Kuril Islands, Russia

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 15:23:26.6 | 78.0 | 29.4 | 0.9 | 7 | 4.6 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/28 | 22:05:56.3 | 35.230N | 88.120E | 33.0N | 5.4 | | | SZGRF |
| 2004/03/28 | 22:05:42.3 | 34.188N | 89.220E | 10G | 5.3 | 4.4 | | NEIC |

Xizang

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| RGN | e P | Z 22:15:14.6 | 54.9 | 78.6 | 1.7 | 165 | 5.8 | | |
| BRG | e P | Z 22:15:17.9 | 55.3 | 76.5 | 1.7 | 53 | 5.3 | | |
| CLL | e P | Z 22:15:21.0 | 55.8 | 76.2 | 1.8 | 36 | 5.1 | | |
| GEC2 | e P | Z 22:15:23.0 | 56.0 | 75.0 | 1.4 | 56 | 5.4 | | |
| WET | e P | Z 22:15:26.1 | 56.4 | 74.7 | 1.5 | 40 | 5.2 | | |
| WERD | e P | Z 22:15:25.7 | 56.5 | 75.2 | 0.6 | 11 | 5.1 | | |
| GUNZ | e P | Z 22:15:26.2 | 56.5 | 75.1 | 2.5 | 102 | 5.4 | | |
| BSEG | e P | Z 22:15:28.7 | 56.8 | 76.0 | 1.0 | 17 | 5.0 | | |

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| | | | | | | | | |
|------|-----|---|------------|------|------|-----|-----|-----|
| CLZ | e P | Z | 22:15:31.9 | 57.3 | 74.7 | 1.6 | 68 | 5.4 |
| GRA1 | e P | Z | 22:15:32.8 | 57.3 | 74.0 | 1.7 | 101 | 5.6 |
| FUR | e P | Z | 22:15:35.5 | 57.7 | 73.1 | 1.6 | 146 | 5.8 |
| STU | e P | Z | 22:15:43.0 | 58.9 | 72.1 | 1.5 | 81 | 5.5 |
| BUG | e P | Z | 22:15:45.8 | 59.2 | 72.4 | 1.4 | 35 | 5.2 |
| BFO | e P | Z | 22:15:47.3 | 59.5 | 71.3 | 1.4 | 38 | 5.2 |
| WLF | e P | Z | 22:15:54.7 | 60.5 | 70.7 | 1.4 | 60 | 5.4 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/28 | 22:27:30.5 | 34.070N | 89.490E | 33.0N | 5.3 | 4.6 | | SZGRF |
| 2004/03/28 | 22:27:27.8 | 34.064N | 89.219E | 10G | 5.2 | 4.4 | | NEIC |

Xizang

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|-----|----|
| BRG | e P | Z 22:37:04.3 | 55.4 | 76.7 | 1.7 | 58 | 5.3 | | |
| CLL | e P | Z 22:37:06.7 | 55.9 | 76.3 | 1.2 | 21 | 5.0 | | |
| GEC2 | e P | Z 22:37:09.0 | 56.1 | 75.2 | 1.4 | 55 | 5.4 | | |
| WET | e P | Z 22:37:11.8 | 56.5 | 74.8 | 1.1 | 20 | 5.0 | | |
| WERD | e P | Z 22:37:11.9 | 56.5 | 75.3 | 1.8 | 39 | 5.1 | | |
| GUNZ | e P | Z 22:37:12.2 | 56.5 | 75.2 | 1.4 | 32 | 5.2 | | |
| BSEG | e P | Z 22:37:14.6 | 56.9 | 76.1 | 4.3 | 786 | 6.1 | | |
| CLZ | e P | Z 22:37:17.9 | 57.4 | 74.9 | 1.3 | 40 | 5.3 | | |
| GRA1 | e P | Z 22:37:18.8 | 57.4 | 74.1 | 1.4 | 52 | 5.4 | | |
| | e L | Z 23:01:52.2 | | | 21.9 | 535 | | 4.6 | |
| FUR | e P | Z 22:37:21.7 | 57.8 | 73.2 | 1.8 | 176 | 5.8 | | |
| IBBN | e P | Z 22:37:27.7 | 58.8 | 73.3 | 1.1 | 27 | 5.2 | | |
| STU | e P | Z 22:37:28.8 | 58.9 | 72.2 | 1.6 | 72 | 5.4 | | |
| BUG | e P | Z 22:37:31.6 | 59.3 | 72.5 | 1.3 | 30 | 5.2 | | |
| BFO | e P | Z 22:37:33.0 | 59.6 | 71.5 | 1.5 | 31 | 5.1 | | |
| WLF | e P | Z 22:37:40.4 | 60.5 | 70.8 | 1.6 | 72 | 5.2 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2004/03/29 | 01:07: 9.8 | 33.440N | 90.990E | 33.0N | 4.6 | | | SZGRF |
| 2004/03/29 | 01:07:15.3 | 34.088N | 89.191E | 10G | 4.7 | 4.4 | | NEIC |

Qinghai, China

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 01:17:06.1 | 57.4 | 74.1 | 1.1 | 7 | 4.6 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2004/03/29 | 14:47:32.8 | 16.830S | 172.420W | 33.0N | | | | SZGRF |
| 2004/03/29 | 14:47:42.2 | 15.427S | 173.039W | 74D | 5.1 | | | NEIC |

Samoa Islands region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| CLL | e PKP | Z 21:34:23.1 | | | | | | | |
| GEC2 | e PKP | Z 21:34:29.4 | | | | | | | |
| TANN | e PKP | Z 21:34:26.0 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| 2004/03/30 | 03:20:57.2 | 22.580S | 178.320W | 33.0N | | | | SZGRF |

South of Fiji Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z 03:40:38.9 | 148.0 | 15.2 | | | | | |
| RUE | e PKPbc | Z 03:40:41.0 | 148.7 | 21.9 | | | | | |
| CLL | e PKPdf | Z 03:40:40.1 | 150.0 | 21.2 | | | | | |
| | e PKPbc | Z 03:40:44.1 | | | 0.9 | 33 | | | |
| | e PKPab | Z 03:40:48.3 | | | 0.9 | 16 | | | |
| CLZ | e PKPbc | Z 03:40:44.5 | 150.0 | 16.2 | | | | | |
| BRG | e PKPbc | Z 03:40:45.0 | 150.1 | 23.2 | | | | | |
| | e PKPab | Z 03:40:49.5 | | | | | | | |
| BUG | e PKPbc | Z 03:40:46.1 | 150.8 | 10.6 | | | | | |
| MOX | e PKPbc | Z 03:40:46.6 | 150.9 | 19.1 | | | | | |
| | e PKPab | Z 03:40:52.0 | | | | | | | |
| WERD | e PKPbc | Z 03:40:46.5 | 150.9 | 20.5 | | | | | |
| | e PKPab | Z 03:40:52.5 | | | | | | | |
| GUNZ | e PKPbc | Z 03:40:46.5 | 151.0 | 20.6 | | | | | |
| | e PKPab | Z 03:40:53.1 | | | | | | | |
| GRA1 | e PKPbc | Z 03:40:49.0 | 151.9 | 18.9 | | | | | |
| | e PKPab | Z 03:40:56.9 | | | | | | | |
| WET | e PKPbc | Z 03:40:49.3 | 152.0 | 22.5 | | | | | |
| | e PKPab | Z 03:40:57.6 | | | | | | | |
| GEC2 | e PKPbc | Z 03:40:49.5 | 152.1 | 24.2 | | | | | |
| WLF | e PKPbc | Z 03:40:51.2 | 152.7 | 9.0 | | | | | |
| FUR | e PKPbc | Z 03:40:52.2 | 153.3 | 20.0 | | | | | |
| | e PKPab | Z 03:41:02.9 | | | | | | | |
| BFO | e PKPbc | Z 03:40:52.9 | 153.7 | 14.0 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/30 | 15:19:15.7 | 29.013N | 69.423E | 33.0N | 4.7 | | | SZGRF |
| 2004/03/30 | 15:19:20.0 | 29.647N | 68.238E | 15D | 4.7 | | | NEIC |

Pakistan

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 15:27:52.5 | 46.9 | 93.2 | 1.2 | 7 | 4.7 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/30 | 16:23:41.7 | 16.128N | 61.843W | 33.0N | 4.7 | | | SZGRF |
| 2004/03/30 | 16:23:33.7 | 17.481N | 61.974W | 52 | 4.9 | | | NEIC |

Leeward Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 16:34:30.9 | 66.0 | 269.0 | 1.3 | 7 | 4.7 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|---------|-------|-----|----|----|--------|
| 2004/03/30 | 18:44:32.9 | 8.135N | 31.877W | 33.0N | 4.6 | | | SZGRF |

North Atlantic Ocean

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 18:54:00.4 | 54.9 | 235.8 | 1.1 | 7 | 4.6 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/31 | 02:01:49.4 | 37.588N | 73.210E | 33.0N | 4.7 | | | SZGRF |
| 2004/03/31 | 02:01:58.6 | 37.825N | 72.334E | 82* | 4.6 | | | NEIC |

Tajikistan

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 02:10:02.7 | 44.4 | 81.3 | 1.2 | 13 | 4.7 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2004/03/31 | 10:08:13.2 | 37.470N | 70.590E | 105.6 | 4.9 | | | SZGRF |
| 2004/03/31 | 10:08:06.0 | 37.304N | 71.597E | 103D | 4.7 | | | NEIC |

Afghanistan-Tajikistan border region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| RUE | e pP | Z 10:16:15.2 | 42.4 | 87.2 | | | | | |
| BRG | e P | Z 10:15:51.7 | 42.4 | 85.6 | 1.5 | 42 | 5.0 | | |
| | e pP | Z 10:16:15.8 | | | | | | | |
| GEC2 | e P | Z 10:15:54.5 | 42.7 | 83.2 | 1.7 | 20 | 4.6 | | |
| | e pP | Z 10:16:18.8 | | | | | | | |
| CLL | e P | Z 10:15:55.7 | 42.9 | 85.3 | 1.0 | 15 | 4.7 | | |
| | e pP | Z 10:16:19.8 | | | | | | | |
| WET | e pP | Z 10:16:22.8 | 43.2 | 83.0 | | | | | |
| GUNZ | e pP | Z 10:16:24.6 | 43.4 | 83.9 | | | | | |
| WERD | e P | Z 10:16:00.4 | 43.5 | 83.9 | 1.2 | 15 | 4.6 | | |
| | e pP | Z 10:16:24.4 | | | | | | | |
| MOX | e P | Z 10:16:03.8 | 43.9 | 83.7 | 1.3 | 19 | 4.6 | | |
| | e pP | Z 10:16:28.0 | | | | | | | |

| | | | | | | | | | |
|------|------|---|------------|------|------|-----|----|-----|--|
| GRA1 | e pP | Z | 10:16:32.0 | 44.2 | 82.4 | | | | |
| FUR | e pP | Z | 10:16:32.6 | 44.4 | 80.9 | | | | |
| CLZ | e P | Z | 10:16:08.7 | 44.5 | 84.0 | 1.5 | 27 | 4.7 | |
| | e pP | Z | 10:16:33.4 | | | | | | |
| IBBN | e P | Z | 10:16:21.0 | 46.1 | 82.6 | 1.4 | 60 | 5.3 | |
| | e pP | Z | 10:16:45.7 | | | | | | |
| BFO | e P | Z | 10:16:22.4 | 46.3 | 79.2 | 1.9 | 46 | 5.2 | |
| BUG | e pP | Z | 10:16:48.8 | 46.5 | 81.4 | | | | |
| WLF | e P | Z | 10:16:32.5 | 47.5 | 79.0 | 1.2 | 27 | 5.2 | |
| | e pP | Z | 10:16:57.5 | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|----|-----|----|--------|
| 2004/03/31 | 15:23:27.8 | 43.983N | 18.549E | 10.0G | | 3.0 | | SZGRF |
| 2004/03/31 | 15:23:26.7 | 43.823N | 18.567E | 10 | | | | NEIC |

Northwestern Balkan Peninsula

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|----|-----|----|
| OBKA | e Pn | Z | 15:24:25.4 | 3.9 | 132.0 | | | | | |
| ARSA | e Pn | Z | 15:24:26.4 | 4.0 | 147.0 | | | | | |
| KBA | e Pn | Z | 15:24:39.7 | 4.9 | 129.7 | | | | | |
| | e Sn | N | 15:25:33.7 | | | | | | | |
| MOA | e Pn | Z | 15:24:41.0 | 5.0 | 141.8 | | | | | |
| WTTA | e Pn | Z | 15:24:54.9 | 5.9 | 122.8 | | | | | |
| GEC2 | e Pn | Z | 15:24:54.6 | 6.0 | 144.4 | | | | | |
| WET | e Pn | Z | 15:25:03.2 | 6.6 | 141.5 | | | | | |
| DAVA | e Pn | Z | 15:25:09.0 | 7.0 | 116.5 | | | | | |
| GRA1 | e Pn | Z | 15:25:17.3 | 7.7 | 136.7 | | | | | |
| | e L | Z | 15:28:25.1 | | | 13.9 | 248 | | 3.0 | |
| GUNZ | e Pn | Z | 15:25:18.6 | 7.8 | 144.7 | | | | | |
| WERD | e Pn | Z | 15:25:19.4 | 7.9 | 144.9 | | | | | |
| MOX | e Pn | Z | 15:25:25.4 | 8.3 | 142.7 | | | | | |
| CLL | e Pn | Z | 15:25:27.9 | 8.4 | 151.3 | | | | | |
| BFO | e Pn | Z | 15:25:26.7 | 8.4 | 118.6 | | | | | |

Format description

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(K. Klinge Email:klinge@szgrf.bgr.de and A. Schick)

In general all regional and teleseismic events clearly recorded with GRF-Array stations and stronger events recorded with stations of the German Regional Seismological Network (GRSN) are included in this bulletin. Additionally, some selected events are analysed more comprehensively at CLL-station and included in the bulletin (ISOP-analysi

s).

Each event is reported by several EPICENTER LINES with possible COMMENT LINES, a REGION LINE and a block of PHASE LINES.

EPICENTER LINES:

The epicenter locations of several authorities can be reported. The epicenter location with the highest priority (i.e. the most reliable one) is written in the undermost EPICENTER LINE. The REGION LINE and all origin related parameter in the PHASE LINES (i.e. Def, Dist, EvAz) are determined regarding this epicenter location with the highest priority.

| | |
|-------------|---|
| Date | Date of the event |
| Origin Time | Origin time of the event |
| Lat | Geographic latitude (N/S) of epicenter in degree |
| Long | Geographic longitude (E/W) of epicenter in degree |
| Depth | Depth of the hypocenter beneath the surface in kilometer |
| | Appended flag indicates the method by which the depth was determined: |
| | BLANK - free |
| | N - preset depth of 33 kilometer |
| | G - geophysicist preset depth |
| mb, Ms, ML | Magnitudes of the event and magnitude type |
| Source | Abbreviations for the authority (e.g. SZGRF, NEIC, PIDC, SED) |

COMMENT LINE:

Each EPICENTER LINE can be followed by a COMMENT LINE about interesting topics submitted by the preceding authority.

REGION LINE:

The region name of the epicenter location with the highest priority (undermost EPICENTER LINE).

PHASE LINE:

| | |
|-------|--|
| Sta | Station code of the reported phase |
| Phase | Preceded flag for the sharpness of the onset of the phase |
| | e - emergent |
| | i - impulsive |
| | w - weak |
| | ISC phase code |
| | Flag for the direction of the first motion |
| | '+' - compression |
| | '-' - dilatation |
| | Component where the phase was picked |
| Time | Arrival time of the reported phase |
| Dist | Distance from the epicenter location with the highest priority to the station in kilometer |
| BAz | Backazimuth from the epicenter location with the highest priority to the station in degree |
| T[s] | Phase Period |
| A[nm] | Phase Amplitude |
| mb | Body wave magnitude |
| MS | Surface wave magnitude |
| ML | Local Richter magnitude |

